


	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

## PROCESS DATA FOR BDV'S REPORT



**CONTRACT NO.:** POGC-801-84/240  
**PROJECT:** South Pars Gas Field Development Phases 15&16  
**COMPANY:** Pars Oil and Gas Company  
**CONSORTIUM:** GHORB,IOEC,ISOICO and SAFF

3	22-OCT-08	APPROVED FOR CONSTRUCTION	J.Samadi	H.Kalatjari	M.Ebrahimi	A.Karimzadeh	S.H.Habibi	
2	27-AUG-08	ISSUED FOR REVIEW	J.Samadi	H.Kalatjari	M.Ebrahimi	A.Karimzadeh	S.H.Habibi	
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1	13-FEB-08	ISSUED FOR DESIGN	J.Samadi	H.Kalatjari	M.Ebrahimi	A.Karimzadeh	S.H.Habibi	
REV.	DATE	DESCRIPTION	PREP.	CHKD.	P.M.	P.D.	CONTRACTOR APPD.	COMPANY APPD.
					APPD.			

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## 1 INTRODUCTION

### 1.1 GENERAL PROJECT DESCRIPTION



GHORB is developing of the SOUTH PARS Phases 15 & 16 Project for Pars Oil & Gas Company (POGC) in IRAN. This project includes onshore facilities for the processing of reservoir fluid.

Phases 15 & 16 onshore Complex will be located on the Iranian coast of Persian Gulf in ASSALUYEH (approximately 270 km South East of Bandar Bushehr).

The Total capacity of Phases 15 & 16 onshore facilities is 2000 MMSCFD of reservoir fluid.

Phase 15 & 16 onshore Complex will include all processing units, utilities, offsets and infrastructure necessary to produce sales gas, gaseous ethane cut of petrochemical feedstock quality, commercial grade propane and butane for export and stabilized condensate. The complex is fed by the reservoir fluid delivered to the onshore plant (Tie-in) via two multiphase lines:

- Receiving facilities for HP separation of raw gas and condensate/water mixture.
- Condensate stabilization producing stabilized condensate for storage and export and light ends recycled in the HP gas system. One condensate flashing unit normally not operated is provided as a back-up of the stabilization facilities.
- Gas treatment facilities producing sales gas, gaseous ethane and NGL's and consisting in :
  - H<sub>2</sub>S removal from gas / CO<sub>2</sub> partial removal from gas.
  - Dehydration, using molecular sieves technology.
  - Mercury guard.
- Ethane extraction unit producing sales gas, gaseous ethane and NGL's.
- NGL fractionation facilities to produce gaseous ethane and sour liquid butane and propane.

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- Gaseous ethane cut treatment for CO<sub>2</sub> removal and drying for further export
- Propane and butane treatment for mercaptan removal and drying for further storage and export.
- Export gas compression to export pipeline pressure.
- MEG regeneration and injection unit.
- Sulphur recovery producing liquid sulphur for further solidification and export.
- Utilities, offsites required for operation.

## 1.2 SCOPE



Scope of this document is to report the results of the depressurization study performed for each network into which the plant is divided. Each network, identified by relevant BDV, is briefly described in Section 3. The results are reported in Section 5, listed by plant unit and relevant BDV tag. This work reports only the loads and relevant T and P conditions given by the depressurization of each single network, considered as not depending on the other ones. The study of the possible scenarios and of the contemporary loads is included in the Flare Loads Summary Table. All the flare released gas characteristics (flow rate, temperature, etc.) included in this document refer to the upstream condition (process side): the released fluid characteristics downstream the safety devices, evaluated on the basis of the fluid composition of the released gas stream and the isoenthalpic flash from the upstream condition down to the actual backpressure for each individual scenario, will be included in the Flare Network Sizing Summary Report.

## 2 DEFINITIONS AND REFERENCE DOCUMENTS

### 2.1 DEFINITIONS

The whole plant has been divided into networks, i.e. plant portions which can be isolated by shutdown valves (SDV's) and/or "failure closed" control valves.

The depressurisation of a network is performed by isolating that network and discharging the fluid contained in it through a line size blow-down valve (BDV) and relevant flow restriction orifice.

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The first step in performing depressurisation calculation consists therefore in defining the circuits referred to each BDV.

Three different depressurisation procedures are considered:

- Depressurisation in case of external pool fire (“Hot fluid depressurisation”)
- Depressurisation after prolonged shutdown (“Cold fluid depressurisation”)
- Spurious depressurization

The conditions (H&MB case: summer, winter, etc...) to be selected as a basis for calculations are the ones that in case of depressurisation will generate the maximum volumetric flare load. As a preliminary figure, the lowest liquid density and the lowest starting temperature condition give the highest peak load.

**Further details are reported in the next sections 3 (networks description) and 4 (methods).**

## 2.2 REFERENCE DOCUMENTS



Blowdown valve sizing is based on the practices recommended in the following documents:

### International Standards

- API RP 521

### Project Documents

- Process Sizing Criteria (DB 1516 999 P312 205)
- Safety Systems Process Description (DB 1516 999 P312 209)
- Relief and Blowdown Sizing Philosophy
- Process Specification for Slug Catcher (SPP 1516 100 X 101)
- Emergency depressurization and minimum temperature report (RT-1516-999-P312-0007)

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### 3 NETWORK DESCRIPTION

#### 3.1 GENERAL

In the following sections, each single network, identified by relevant BDV, is briefly described; the networks are grouped by unit and the description includes the tags of relevant equipment.

#### 3.2 UNIT 100

##### 3.2.1 BDV 0040

The area to be depressurised contains the two HP separators: 100-D-101 and 100-D-102 and the gas heater 100-E-101, it is segregated by ESDV 0039 and 0051, SDV 0045, 0050, 0127.

##### 3.2.2 XV 0018

The gas part of each ½ slug catcher shall be depressurised to the HP flare system up to the limit capacity of each flare. This case is not a sizing case for the HP flare as no emergency depressurisation is to be achieved (see also DB 1516 100 P312 201).



The two half part of the slug catcher are divided by MOV 0011, 0012, 0013.

The area to be depressurised is segregated by ESDV 0401, 0402 and SDV 0018, 0019 and 0036.

#### 3.3 UNIT 101

##### 3.3.1 BDV 0006

Filter 101-F-101 and K.O. drum 101-D-101 (downstream demister) with relevant piping have been considered: line from 101-D-101 to 101-F-101, 101-F-101 liquid outlet up to check valve and gas outlet up to MOV 0018.

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### 3.3.2 BDV 0011

The network includes 101-D-101 (upstream demister), 101-D-101 inlet line from SDV-0007 and liquid outlet up to SDV-0010.

### 3.3.3 BDV 0036

The network includes Treated Gas Cooler 101-E-104 (shell side) and K.O. Drum 101-D-102 and gas outlet line up to SDV-0014 which is located at Unit 104 inlet. Piping pieces between MOV-0033 and 101-E-104 as well as between 101-D-102 and SDV-0037 are included in this node.

### 3.3.4 BDV 0038

The network includes column 101-C-101 with inlet line from 101-F-01 downstream MOV-0018, column liquid outlet up to SDV-0026, line from /to 101-P-103, line from 101-P-101 downstream SDV-0027. The line to 101-D-106 up to the check valve is also included in the node.

### 3.3.5 BDV 0041

Rich amine Flash Drum 101-D-103 and Flash Gas Absorber 101-C-103 have been considered, including fuel gas outlet up to SDV-0044, drum liquid outlet up to SDV-0043 and the inlet line from 101-C-101 downstream up to SDV-0026.



## 3.4 UNIT 103

### 3.4.1 BDV 0038

The area to be depressurised through BDV 0038 contains Preflash Drum 103-D-101 and Preflash Heaters 103-E-101 A/B, it is segregated by SDV 0034,0036, 0037, 0041 A/B, 0045, 0050, ESDV 0031, 0033, FV 0042 on 103-P-101 miniflow which is forced closed by ESD system. FV 0026 is forced to close by ESD system.

### 3.4.2 BDV 0066, BDV 0101

BDV 0066 is located on the top of Condensate Stabiliser 103-C-101, the area to be depressurised contains the column (including reboiler and side reboiler), Reflux Condenser 103-A-104, Reflux Drum 103-D-107 and Reflux Pumps 103-P-102 A/B. It

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is segregated by SDV 0102 on the line to 103-D-102 and SDV 0081 on the line from the bottom of 103-C-101. FV-0066, LV 0116 and LV 0166 (respectively on the lines to 101-C-101, and from bottom of 103-D-103 and 103-D-110) are forced to close in case of ESD.

### 3.4.3 BDV 0103

The area to be depressurised contains 1<sup>st</sup> Stage Offgas Compressor Suction Drum, liquid outlet up to LV0102, vapor outlet up to the compressor, inlet from SDV 0102 and PV 0102.

### 3.4.4 BDV 0116

The area to be depressurised contains 2<sup>nd</sup> Stage Offgas Compressor Suction Drum 103-D-103, the inlet line from the check valve, including the line from 103-D-101 up to SDV 0037 and the 2<sup>nd</sup> stage compressor capacity control line up to PV 0117 that SP propose to force closed in case of ESD.

Downstream 103-D-103: gas line up to compressor, condensate line up to LV-0116 (forced closed by ESD) and glycolated water line up to LV-0118 (forced closed by ESD).



### 3.4.5 BDV 0126

The area to be depressurised contains the outlet line from 103-K-101, the 2<sup>nd</sup> Stage Offgas Compressor Aftercooler 103-A-103 up to SDV 0127. SP propose to force PV 0117 (on compressor capacity control line) to close by an ESD signal.

### 3.4.6 BDV 0166

The area to be depressurised contains 1<sup>st</sup> stage Offgas Compressor Discharge Drum 103-D-110 and the 1<sup>st</sup> stage Offgas Compressor Aftercooler, from 103-K-101, including 103-D-110 liquid outlet up to LV 0166 (forced closed in case of ESD), vapour outlet up to check valve, and compressor capacity control line up to PV 0102 that SP propose to force closed in case of ESD.



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### 3.5 UNIT 104

#### 3.5.1 BDV 0005

The line from SDV 0002 through the Gas/Gas exchanger 104-E-101 (shell side), up to SDV 0012 has been considered.

#### 3.5.2 BDV 0007

The area to be depressurised contains Wet gas chiller 104-E-102 (propane side), including propane inlet from SDV 0009, and propane outlet to SDV 0008, SDV 0010 and SDV 0011.

#### 3.5.3 BDV 0019

The area to be depressurised begins at the SDV 0014, contains the gas/gas exchanger 104-E-101 (tube side), the Wet Gas Chiller 104-E-102 (tube side) and the Driers Inlet Separator 104-D-101, the bottom lines up to SDV 0017 and SDV 0018, and the top line up to KV 0031 A1, B1, C1. The area contains also 104-K-101A/B discharge line, from check valve downstream BDV 0066.

#### 3.5.4 BDV 0032

One dryer has been considered on each BDV, including inlet/outlet line from KV 0031A1 and A2 to KV 0034A1 and A2.

#### 3.5.5 BDV 0042



The area downstream ESDV 0044 has been considered, including the Dryers Regeneration Furnace 104-H-101 with the portion of bypass downstream KV 0045, and furnace downstream line up to KV 0034 A2/B2/C2.

#### 3.5.6 BDV 0056

The network includes regeneration Gas Separator 104-D-102 with bottom liquid line up to SDV 0058 and regeneration air cooler 104-A-101 with lines up to KV 0031 A2/B2/C2. The line used during bed switching up to XV 0052 has been considered.

#### 3.5.7 BDV 0066

The network consists of dryers regeneration Compressor 104-K-101A/B discharge line from the first up to the second check valve.

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### 3.5.8 BDV 0081

The area downstream KV 0034 A1/B1/C1 has been considered, including Filters 104-F-101 A/B, up to SDV 0086, and the line to 104-H-101 up to ESDV 0044, KV 0045 and XV 0052.

### 3.5.9 BDV 0084

The line downstream MOV 0083 has been considered, up to SDV 0001; Mercury Guard Reactor bypass, downstream CSC valve, has also been included. This is during normal running, if the bypass is used MOV 0086 and MOV 0083 are closed, so the area to be depressurised contains the whole bypass, up to SDV 0086 and MOV 0086.

### 3.5.10 BDV 0085

The line downstream SDV 0086 has been considered, including Dry Gas Heater 104-E-103, Mercury Guard Reactor 104-R-102 and Treated Gas Filter 104-F-102, up to MOV 0083. Mercury Guard Reactor bypass, up to the CSC valve, has also been included.

## 3.6 UNIT 105

### 3.6.1 BDV 0033



Feed Flash KO drum has been considered, including liquid outlet up to SDV 0032, gas outlet up to SDV 0042 and JT valve; the inlet line, from SDV 0001, through Cold Box 105-E-101 and the outlet line, through Cold Box, up to FV 0066 have been considered.

### 3.6.2 BDV 0055

The line from FV 0108 (forced closed by ESD) through the Treated Gas Compressor 105-K-101, up to SDV 0012 and 0058 has been considered.

### 3.6.3 BDV 0066

Demethanizer 105-C-101 has been considered, including lines from/to side reboilers, lines from/to reboiler, liquid outlet up to SDV 0067 A/B, feed inlet downstream SDV

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0032, feed inlet downstream SDV 0042 through expander 105-X-101, and top feed inlet downstream valve FV-0066, vapour outlet through Cold Box up to SDV 0002.

#### 3.6.4 BDV 0084

Deethanizer 105-C-102 has been considered, including feed inlet line from SDV 0067 A/B, liquid outlet line up to SDV 0082, lines from/to reboiler, vapour outlet up to 105-E-105, and reflux inlet downstream SDV 0106 A/B.

#### 3.6.5 BDV 0102

The area to be depressurised contains Deethaniser condenser 105-E-105 propane side, propane inlet from SDV 0010, propane outlet through Cold Box 105-E-101 up to SDV 0005 and SDV 0011.

#### 3.6.6 BDV 0103

Deethanizer condenser and Deethanizer reflux drum have been considered, including liquid outlet up to SDV 0106 A/B, vapor outlet will be considered in BDV 0104.

#### 3.6.7 BDV 0104

Vapour outlet from 105-D-102 has been considered, with 105-E-106 tube side, up to SDV 0108 and FV 0108.


#### 3.6.8 BDV 0105

The area to be depressurised contains Ethane Heater 105-E-106, including feed inlet from SDV 0105, through Cold Box 105-E-101 up to SDV 0014, and the line to SDV 0009 in unit 104.

### 3.7 UNIT 106

#### 3.7.1 BDV 0005

Line from ESDV 0001 and ESDV 0003 has been considered, including the header and the line up to SDV 0011 (*seven times*).

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### 3.7.2 BDV 0007

Line from SDV 0029 (*seven* times) and the header have been considered, up to ESDV 0008.

### 3.7.3 BDV 0014

Export gas Compression Suction Drum 106-D-101 and Export Gas Compression after Cooler 106-A-101 have been considered, including antisurge line and line from SDV 0011 to 106-D-101 and the line from 106-A-101 to SDV 0029, but excluding Export Gas Compressor between MOV 0021 and MOV 0027.

### 3.7.4 BDV 0024

Export Gas Compressor 106-K-101 has been considered, including line from MOV 0021 to MOV 0027.

## 3.8 UNIT 107

### 3.8.1 BDV 0002

The area to be depressurised contains Depropaniser 107-C-101, feed inlet up to SDV 0007 and SDV 0005, liquid outlet up to SDV 0011, lines from/to reboiler, reflux line downstream SDV 0025 A/B and vapour outlet up to 107-A-101 and PDV 0022.

### 3.8.2 BDV 0024



The area to be depressurised contains Depropaniser Condenser 107-A-101 and Depropaniser Reflux Drum 107-D-101, including lines from PV 0021 and PDV 0022 and liquid outlet up to SDV 0025A/B and SDV 0023A/B.

### 3.8.3 BDV 0032

The area to be depressurised contains Debutaniser 107-C-102, feed inlet up to SDV 0011 and SDV 0035, liquid outlet up to SDV 0041, lines from/to reboiler, reflux line downstream SDV 0055 A/B, and vapour outlet up to 107-A-102 and PDV 0052.

### 3.8.4 BDV 0054

The area to be depressurised contains Debutaniser Condenser 107-A-102 and Debutaniser Reflux Drum 107-D-102, including lines from PV 0051 and PDV 0052 and liquid outlet up to SDV 0055A/B.

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### 3.9 UNIT 110

#### 3.9.1 BDV 0039

The area to be depressurised contains Condensate Preflash Heaters 110-E-101 A/B and Preflash Drum 110-D-101, including inlet line from ESDV 0034, ESDV 0035, ESDV 0031 and ESDV 0032, and outlet line up to SDV 0039 and SDV 0041.

#### 3.9.2 BDV 0069

The area to be depressurised contains Condensate Second Heater 110-E-102, Condensate Final Heater 110-E-103 and Flash Drum 110-D-102, including lines from SDV 0041 and ESDV 0058 to SDV 0069 and SDV 0071.

### 3.10 UNIT 111

#### 3.10.1 BDV 0003



The area to be depressurized contains First Stage Suction Drum 111-D-101, including inlet line from SDV 0002, anti-surge line, desuperheating line from TV 0002, outlet line to 111-P-101, gas outlet line up to First Stage Refrigerant Compressor 111-K-101.

#### 3.10.2 BDV 0013

The area to be depressurized contains Second Stage Suction Drum 111-D-102, including inlet line from SDV 0012, anti-surge line , desuperheating line from SDV-0011 and TV-0002 up to 111-D-102, gas outlet line up to Second Stage Refrigerant Compressor 111-K-101 and 111-D-101 bottom heating line.

#### 3.10.3 BDV 0043

The area to be depressurised contains Refrigerant Compressor 111-K-101 and inlet/outlet lines up to manual valves for maintenance/isolation.

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### 3.10.4 BDV 0051

The area to be depressurised contains Refrigerant Surge Drum 111-D-103 and Refrigerant Condenser 111-A-101, including lines from 111-P-101, SDV 0044, ESDV 0058 and outlet line to SDV 0054.

### 3.11 UNIT 113

#### 3.11.1 BDV 0010

The area to be depressurized contains c4 washing drum 113-D-102 , including lines from SDV 0008 , SDV 0007 , SDV 0006 and SDV 0012 .

### 3.12 UNIT 114

#### 3.12.1 BDV 0004

The area to be depressurized contains first settling drum 114-D-101 , including lines from SDV 0002 , SDV 0003 , FV 0007 and outlet line from 114-D-101 up to 114-M-102 .

#### 3.12.2 BDV 0010

The area to be depressurized contains second settling drum 114-D-102 , including lines from SDV 0008 , 114-M-102 , FV 0004 , FV 0005 and outlet line from 114-D-102 up to 114-M-103 .

#### 3.12.3 BDV 0012



The area to be depressurized contains first c3 wash drum 114-D-103 , including lines from SDV 0001 , 114-M-103 and outlet line from 114-D-102 up to 114-E-101 .

#### 3.12.4 BDV 0013

The area to be depressurized contains caustic prewash drum 114-D-104 and C3 cooler 114-E-101.

#### 3.12.5 BDV 0015

The area to be depressurized contains C3 extractor 114-C-101 , including lines from FV 0011 and outlet line from 114-C-101 up to SDV 0014.

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### 3.12.6 BDV 0017

The area to be depressurized contains second C3 water wash drum 114-D-105 , including lines from 114-M-104 .

### 3.12.7 BDV 0020

The area to be depressurized contains C3 sand filter 114-F-101 , including lines from 114-F-101 up to SDV 0019.

### 3.12.8 BDV 0022 A/B

The area to be depressurized for each blowdown valve contains C3 molecular sieves adsorber 114-C-102 A and 114-C-102 B (one for each BDV) , including lines from SDV 0019 and outlet line from adsorbers up to SDV 0029 and SDV 0031 and FV 0017.

### 3.12.9 BDV 0036 A/B

The area to be depressurized for each blowdown valve contains regeneration gas adsorbers 114-C-103 A and 114-C-103 B (one for each BDV) , including lines from SDV 0034 and outlet line from adsorbers up to FV 0021 , FV 0022 and 115-FV-0007.

### 3.12.10 BDV 0044

The area to be depressurized for contains adsorbers draining / filling drum 114-D-107.

## 3.13 UNIT 115

### 3.13.1 BDV 0003



The area to be depressurized contains C4 extractor 115-C-101 , including lines from SDV 0002 , SDV 0003 and outlet line from 115-C-101 up to SDV 0004.

### 3.13.2 BDV 0007

The area to be depressurized contains C4 water wash drum 115-D-101 , including lines from 115-M-101 and outlet line from 115-D-101 up to SDV 0008 .

### 3.13.3 BDV 0010

The area to be depressurized contains C4 sand filter 115-F-101 , including lines from 115-F-101 up to SDV 0009.

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#### 3.13.4 BDV 0021

The area to be depressurized for contains adsorbers draining / filling drum 115-D-102.

#### 3.13.5 BDV 0027 / 0028

The area to be depressurized for each blowdown valve contains C4 molecular sieves adsorber 115-C-102 A and 115-C-102 B (one for each BDV) , including lines from SDV 0009 and outlet line from adsorbers up to SDV 0018 and SDV 0020 and FV 0009.

#### 3.14 UNIT 116

##### 3.14.1 BDV 0028

The area to be depressurized contains Ethane Cooler 116-E-101 (shell side), Ethane Dryer Inlet Separator 116-D-101, including the lines to SDV 0004, SDV 0022, KV 0031A/B.

##### 3.14.2 BDV 0036 A/B

The sizing case is during bed switching, when one dryer is segregated, so the area to be depressurised contains one ethane dryer and the two ethane filters up to ESDV 0049, *ESDV0045* and KV 0063.



##### 3.14.3 BDV 0055

The sizing case is during bed switching, when one dryer is segregated, so the area to be depressurised begins at ESDV 0049, contains the Ethane Regeneration Heater, up to KV 0039 A/B and KV 0048.

##### 3.14.4 BDV 0089

The area to be depressurised contains Ethane Regeneration Gas Compressors 116-K-101 A/B and discharge line of K-101A/B up to second check valve (including Ethane Regeneration Gas Cooler 116-A-101 and Ethane Regeneration Gas Separator 116-D-103, from KV 0063 and KV 0032 A/B to the second check valve) on compressor discharge.



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### 3.14.5 BDV 0155

The area to be depressurized contains Feed Gas K.O. Drum 116-D-111 including Ethane Feed from Unit 105 (SDV 0011/13) and liquid outlet line to SDV 0157 and gas outlet line to 116-C-111, up to check valve, have been included.

### 3.14.6 BDV 0173

The network contains Amine Absorber 116-C-111 and Treated Gas K.O. Drum 116-D-112, including inlet line from Feed Gas K.O. Drum (from check valve), liquid outlet lines to SDV 0161 and 0172, line from SDV 0162 (from amine HP pumps 116-P-111 A/B) and gas outlet line to Ethane cooler 116-E-101 up to SDV 0004.

### 3.14.7 BDV 0181

The area to be depressurized contains Rich Amine Flash Drum 116-D-113 and Fuel Gas Absorber 116-C-113, including inlet lines from SDV 0172 and SDV 0161, outlet lines to SDV 0183 and SDV 0007.

## 3.15 UNIT 147

### 3.15.1 BDV 0123



The area to be depressurized contains Propane Chiller 147-E-104, including inlet line from LV 0121, vapor outlet line up to SDV 0149.

### 3.15.2 BDV 0133

The area to be depressurized contains Propane Chiller 147-E-103, including inlet line from LV 0133, liquid outlet line up to LV 0138, vapor outlet line up to SDV 0171 A/B, and line from SDV 0134 to vapor outlet line.

### 3.15.3 BDV 0138

The area to be depressurized contains Propane Chiller 147-E-102, including inlet line from LV 0138, liquid outlet line up to LV 0143 and LV 0121, vapor outlet line up to SDV 0161 A/B, and line from SDV 0139 to vapor outlet line.

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#### 3.15.4 BDV 0143

The area to be depressurized contains Propane Chiller 147-E-101, including inlet line from LV 0143, vapor outlet line up to SDV 0151 A/B, and line from SDV 0144 to vapor outlet line *and* SDV-0149 to outlet line.

#### 3.15.5 BDV 0153A

The area to be depressurized contains Suction Drum 147-D-101 A, including inlet lines from SDV 0151 A, TV 0154 A, and FV 0182 A, and outlet line up to Refrigerant Compressor 147-K-101 A.

#### 3.15.6 BDV 0153B

The area to be depressurized contains Suction Drum 147-D-101 B, including inlet lines from SDV 0151 B, TV 0154 B, and FV 0182 B, and outlet line up to Refrigerant Compressor 147-K-101 B.

#### 3.15.7 BDV 0163A



The area to be depressurized contains Suction Drum 147-D-102 A, including inlet lines from SDV 0161 A, TV 0164 A, and FV 0187 A, and outlet line up to Refrigerant Compressor 147-K-101 A.

#### 3.15.8 BDV 0163B

The area to be depressurized contains Suction Drum 147-D-102 B, including inlet lines from SDV 0161 B, TV 0164 B, and FV 0187 B, and outlet line up to Refrigerant Compressor 147-K-101 B.

#### 3.15.9 BDV 0173A

The area to be depressurized contains Suction Drum 147-D-103 A, including inlet lines from SDV 0171 A, TV 0174 A, and FV 0192 A, and outlet line up to Refrigerant Compressor 147-K-101 A.

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### 3.15.10 BDV 0173B

The area to be depressurized contains Suction Drum 147-D-103 B, including inlet lines from SDV 0171 B, TV 0174 B, and FV 0192 B, and outlet line up to Refrigerant Compressor 147-K-101 B.

### 3.15.11 BDV 0204

The area to be depressurized contains Refrigerant Condenser 147-A-101 and Refrigerant Surge Drum 147-D-104, including inlet line from ESDV 0205, line from 147-P-106, line from SDV 0199 A/B, and outlet line up to SDV 0202.

### 3.15.12 BDV 0198A

The area to be depressurized contains Refrigerant Compressor 147-K-101 A, including lines from the compressor up to SDV 0199 A.

### 3.15.13 BDV 0198B

The area to be depressurized contains Refrigerant Compressor 147-K-101 B, including lines from the compressor up to SDV 0199 B.

### 3.15.14 BDV 0123A/B

The area to be depressurized contains Refrigerant Compressor 147-K-102 , including lines from the compressor up to SDV 0115.

## 3.16 UNIT 148

### 3.16.1 BDV 0118


The area to be depressurized contains Butane Chiller 148-E-101, including inlet line from LV 0116, vapor outlet line up to 147 SDV 0134, liquid outlet line up to LV 0121.

### 3.16.2 BDV 0123

The area to be depressurized contains Butane Chiller 148-E-102, including inlet line from LV 0121, vapor outlet line up to 147 SDV 0139, liquid outlet line up to LV 0101.

### 3.16.3 BDV 0103

The area to be depressurized contains Butane Circulation Subcooler 148-E-103, including inlet line from LV 0101, and vapor outlet line up to 147 SDV 0144.

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### 3.17 UNIT 122

#### 3.17.1 BDV 0022A

HP Fuel Gas Drum 122-D-101A has been considered, including inlet line from SDV 0002A to 122-D-101A, vapor outlet line up to SDV 0024A, SDV 0007A and LP Fuel Gas drum 122-D-102A up to SDV 0031A.

#### 3.17.2 BDV 0022B

HP Fuel Gas Drum 122-D-101B has been considered, including inlet line from SDV 0002B to 122-D-101B, vapor outlet line up to SDV 0024B, SDV 0007B and LP Fuel Gas drum 122-D-102B up to SDV 0031B.

## 4 METHOD

The PRO/II (Simsci-Foxboro) simulator (in particular, the DEPRESSURING card) has been used to calculate:



- L/V equilibrium
- Maximum vent rate
- Vent fluid conditions
- Temperature/Pressure/Flow profiles vs. time (plot)

Prior to writing the PRO/II input, the following calculations have been performed:

- Total volume of the circuit to be depressurised
- Total liquid volume
- Total gas volume
- Total wetted area of equipment and piping included in the fire area

The circuit is assumed to be a hypothetical vessel having the total liquid and gas volumes of the circuit and the wetted area of the portion of circuit included in the fire zone. The hypothetical vessel is considered as filled with the actual amount of liquid and vapour at operating pressure and temperature.

The calculation procedure and the initial and final conditions are different for the considered cases of depressurization.

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Initial pressure is in any case the network design pressure (unless it differs more than 15% from operating pressure) or PSHH (taken as 90% of design pressure).

Final pressure is half of design pressure or 8 bara, whichever the lowest, in case of fire, while it is 1 bara both for cold and spurious depressurization.

The depressurization in case of fire starts at the temperature reached by the system due to the fire heat input (this temperature is calculated by PROII, while performing the simulation).

Cold depressurization starts at 21°C or normal operating temperature, whichever the lowest.



Spurious depressurization starts from normal operating temperature, which means that, in case the normal operating temperature is lower than 21°C, it gives the same result as cold depressurization in this case only one result is reported.

Depressurization time is defined only for fire case and it depends on the equipment wall thickness and service, according to the following criteria:

- Maximum time for vessels with wall thickness  $\geq 25\text{mm}$ :
  - 15 minutes for piping and vessels containing hydrocarbon (gas or liquid)
  - 8 minutes for storage vessels containing LPG's or light condensate
- Maximum time for vessels with wall thickness  $< 25\text{mm}$ :
  - 15 minutes minus 3 minutes for each 5mm decrease in thickness

Wall thickness and other information about equipment are reported in section 5.1 of this document.

For details on liquid and vapour inventory, heat input and wetted area calculation criteria, and all the other calculation procedures (including valves and lines sizing), refer to Relief and Blowdown Sizing Philosophy. The results of volumes and wetted area calculations are reported, in any case, in section 5 of this document.

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## 5 RESULT

### 5.1 GENERAL

In the following sections, the depressurization networks are grouped by plant unit.



Each subsection, referring to one BDV, contains the following results:

- Equipment and piping volumes and wetted area calculation sheets
- Depressuring summary (flowrate, T, P vs time) for each considered case
- Fluid T and P vs time plot



In a few cases, a check of the minimum design temperature of equipment was necessary: only in those cases, the equipment wall temperature has been calculated with a special procedure and the relevant plot is therefore reported. However, this calculation is not necessary when the minimum fluid temperature is higher than the material minimum design temperature, as the equipment wall cannot reach a lower temperature than the contained fluid temperature.

The Depressuring summary is part of PRO/II simulation output and displays, for each depressurization case, the vent flowrate through the considered BDV, at each time step. The vent flowrate considered for line and valve sizing is the highest one (fire case, first time step).

The following tables report the equipment wall thickness, used for depressurization time calculation, and other relevant data. See section 4 for depressurization time selection criteria.



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ITEM	Q'ty	DESCRIPTION	TYPE	DIMENSION	material spec.	min. required th'k (top head/shell/btm head)
				( Φ ID x L or W x L x H)		
101-C-1/2/3/401	4	Solvent Absorber	V-SKIRT	4190 ID X 29190 TL	LTCS / SS316L	44+3 / 91 / 48
101-C-1/2/3/402	4	Solvent Regenerator	V-SKIRT	2980 ID X 24920 TL	CS / SS316L	15 / 27 / 46 / 44 / 28
101-C-1/2/3/403	4	Flash Gas Absorber (w/ 101-D-103)	V-SKIRT	20" ID X 5100 TL	CS / SS316L	13
103-C-1/201	2	Condensate Stabiliser	V-SKIRT	2600 ID X 23700 H	A516GR70N	14.3 / 15 / 14.6
105-C-1/2/3/401	4	Demethanizer	V-SKIRT	4200/2000 ID X 36850 TL	A240GR304L	37/73/80/36/52/62/72/78/78
105-C-1/2/3/402	4	Deethanizer	V-SKIRT	2400/3800 ID X 36000 TL	A516GR60N	19.8/38/67/61/62/31.7
107-C-1/201	2	Depropanizer	V-SKIRT	3400 ID X 33140 TL	A516GR60N	25.4 / 49 / 25.5
107-C-1/202	2	Debutanizer	V-SKIRT	2300 ID X 25810 TL	A516GR70N	12.1 / 13 / 12.2
109-C-101	1	1st Sour Water Stripper	V-SKIRT	1350 ID X 20700 H	A516GR70N	6.9 / 7 / 12 / 14 / 14
109-C-102	1	2nd Sour Water Stripper	V-SKIRT	1350 ID X 20700 H	A516GR70N	6.9 / 7 / 12 / 14 / 14
113-C-1/201	2	Oxidizer	V-SKIRT	1450 ID X 14800 TL	CS	8 / 10 / 12 / 14 / 16
114-C-1/201	2	Propane Extractor	V-SKIRT	2250 ID X 17050 TL	LTCS + HIC	30/53,54/36
115-C-1/201	2	Butane Extractor	V-SKIRT	1700 ID X 18750 TL	CS	21 / 22 / 23
116-C-1/211	2	Amine Absorber	V-SKIRT	1800 ID X 28380 TL	CS	20/34/34
116-C-1/212	2	Regeneration	V-SKIRT	1900 ID X 25600 TL	SS 316L	8/8,10,12,14,16/16
116-C-1/213	2	Fuel Gas Absorber	V-FLANGE	324 OD X 4900 TL	CS	8/38
100-D-1/201	2	High Pressure Separator	V-SKIRT	3200 ID x 6000 H	1501-224GR490B LT50	38 / 78 / 38
100-D-1/202	2	High Pressure Separator	V-SKIRT	3200 ID x 6000 H	1501-224GR490B LT50	38 / 78 / 38
100-D-1/203	2	Sump Drum	H-SADDLE	2250 ID x 6300 TL	A240GR316L	14 / 15 / 14
100-D-1/204	2	Steam Condensate Surge Drum	H-SADDLE	1400 ID x 4200 TL	A516GR70	8.6 / 9 / 8.6



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ITEM	Q'ty	DESCRIPTION	TYPE	DIMENSION	material spec.	min. required th'k (top head/shell/btm head)
				( Φ ID x L or W x L x H)		
101-D-1/2/3/401	4	Feed Gas K.O. Drum	V-SKIRT	3600 ID X 4650 TL	LTCS / SS316L	42 / 86 / 43+3
101-D-1/2/3/402	4	Treated Gas K.O. Drum	V-SKIRT	3500 ID X 6200 TL	CS+SS316L (CLAD) + SS316L	41+3 / 83 + 3 / 41+3
101-D-1/2/3/403	4	Rich Solvent MP Flash Drum	H-SADDLE	2450 ID X 7100 TL	CS / SS316L	18 / 18 / 20 / 18 /18
101-D-1/2/3/404	4	Reflux Drum	V-SKIRT	1400 ID X 3800 TL	CS / SS316L	10 / 11 / 10
101-D-1/2/3/405	4	LP Condensate Drum	H-SADDLE	1700 ID X 4100 TL	CS / SS316L	10 / 11 /10
101-D-1/2/3/406	4	Hydrocarbon skim drum	H-SADDLE	1200 ID X 2800 TL	CS / SS316L	7 / 9 / 7
101-D-1/2/3/407	4	Solvent Sump Drum	H-SADDLE	2500 ID X 6600 TL	CS / SS316L	14 / 21 / 14
101-D-1/2/3/408	4	Solvent Make-Up Drum	H-SADDLE	2000 ID X 5600 TL	CS / SS316L	10 / 16 /10
102-D-105	1	MEG Sump Drum	H-SADDLE	2250 ID x 6300 TL	A516GR70	14.6 / 15 / 14.6
102-D-106 A/B	2	Rich MEG Flash Drums	V-SKIRT	1850 ID x 4450 H	A516GR70N	9.7 / 10 / 9.8
102-D-107	1	Steam Condensate Surge Drum	H-SADDLE	2000 ID x 5400 TL	A516GR70	10.2 / 11 / 10.2
103-D-1/201	2	Preflash Drum	H-SADDLE	3550 ID x 11500 TL	A516-65	26 / 49 / 26
103-D-1/202	2	1st st Off Gas Comp. Suction Drum	V-SKIRT	1150 ID x 2650 H	A516GR70N	8.5 / 9 / 8.5
103-D-1/203	2	2nd st. Off Gas Comp. Suction Drum	V-SKIRT	1600 ID x 4500 H	A240-321	19.8 / 20 / 19.8
103-D-1/205	2	Condensate Desalter	H-SADDLE	Dimensions by desalter MFR	Desalter MFR	Desalter MFR
103-D-1/206	2	Condensate Degassing Drum	H-SADDLE	3500 ID x 10500 TL	A516GR70N	12.7 / 18 / 12.7
103-D-1/207	2	Stabiliser Reflux Drum	V-SKIRT	1300 ID x 4150 H	A240-321	7.1 / 8 / 7.1
103-D-1/208	2	Sump Drum	H-SADDLE	2400 ID x 7200 TL	A516GR60N	15.7 / 16 / 15.7
103-D-1/209	2	HP Steam Condensate Flash Drum	V-SKIRT	1400 ID x 4000 H	A516GR70	8.5 / 9 / 8.5
103-D-1/210	2	1st st. Offgas Comp. Discharge Drum	V-SKIRT	1250 ID x 4360 H	A240-321	15.4 / 16 / 15.4
104-D-1/2/3/401	4	Driers Inlet Separators	V-SKIRT	3450 ID x 5900 H	1501-224GR490B LT50	39+3 /78 + 3 / 39+3





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				( Φ ID x L or W x L x H)		
104-D-1/2/3/402	4	Regeneration Gas Separator	V-SKIRT	1000 ID x 2850 H	A516-60	18+3 / 37 + 3 / 18+3
104-D-1/2/3/404	4	Steam Condensate Surge Drum	H-SADDLE	1000 ID x 2000 TL	A516GR70	7 / 10 / 7
105-D-1/2/3/401	4	Feed Flash KO Drum	V-SKIRT	2900 ID x 5360 TL	SS 316L	54 / 109 / 54
105-D-1/2/3/402	4	Deethanizer Reflux Drum	H-SADDLE	2600 ID x 10400 TL	SS 316L	23 / 46 / 23
105-D-1/2/3/403	4	Steam Condensate Surge Drum	H-SADDLE	1400 ID x 4200 TL	A516GR70	8 / 11 / 8
105-D-1/2/3/404	4	HC Sump Drum	H-SADDLE	3000 ID x 7500 TL	SS304L	11 / 14 / 11
106-D-1/2/3/4/5/6/701	7	Export Gas Compressor Suction Drum	V-SKIRT	4400 ID x 5500 TL	A516-70	54 / 108 / 54
107-D-1/201	2	Depropanizer Reflux Drum	H-SADDLE	2900 ID x 11600 TL	A516GR60N	21 / 39 / 21
107-D-1/202	2	Debutanizer Reflux Drum	H-SADDLE	2250 ID x 6750 TL	A516GR60N	14 / 14 / 14
107-D-1/203	2	HC Sump Drum	H-SADDLE	3000 ID x 7500 TL	A516GR60N	12 / 18 / 12
107-D-1/204	2	Steam Condensate Surge Drum	H-SADDLE	1540 ID x 4620 TL	A516GR70	8 / 10 / 8
108-D-1/401	4	Acid Gas KO Drum	V-SKIRT	-	-	11 / 10 / 8
108-D-1/203	2	HP Condensate Drum	V-SKIRT	-	Killed CS	10 / 15 / 10
108-D-1/404	2	Blow Down Drum	V-SKIRT	-	-	8 / 10 / 8
108-D-1/406	2	Condensate Flash Drum	V-SKIRT	1650 ID X 3500 TL	-	12 / 13 / 9
109-D-101	1	1st Sour Water Stripper Feed Drum	H-SADDLE	2400 ID x 9120 TL	A516GR70	11.5+3 / 12+3 / 11.5+3
109-D-102	1	2nd Sour Water Stripper Feed Drum	H-SADDLE	2400 ID x 9120 TL	A516GR70	11.5+3 / 12+3 / 11.5+3
109-D-103	1	1st Sour Water Stripper Reflux Drum	H-SADDLE	1100 ID x 2390 TL	A240GR316L	4.7 / 6 / 4.7
109-D-104	1	2nd Sour Water Stripper Reflux Drum	H-SADDLE	1100 ID x 2390 TL	A240GR316L	4.7 / 6 / 4.7
109-D-105	1	1st Steam Cond. Surge Drum Condenser	H-SADDLE	1100 ID x 2200 TL	A516GR70	7.5 / 8 / 7.5

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				( Φ ID x L or W x L x H)		
109-D-106	1	2nd Steam Cond. Surge Drum Condenser	H-SADDLE	1100 ID x 2200 TL	A516GR70	7.5 / 8 / 7.5
109-D-107	1	Sour Water Sump Drum	H-SADDLE	2200 ID x 5100 TL	A516GR70N	13.5 / 14 / 13.5
110-D-101	1	Preflash Drum	H-SADDLE	3600 ID x 11500 TL	A516GR60N	29.2 / 30 / 29.2
110-D-102	1	Flash Drum	H-SADDLE	3100 ID x 10000 TL	A516GR70N	19.8 / 20 / 19.8
110-D-103	1	Degassing Drum	H-SADDLE	3200 ID x 9000 TL	A516GR70	11.7 / 13 / 11.7
110-D-104	1	Steam Condensate Flash Drum	V-SKIRT	1400 ID x 5400 TL	A516GR70	10.9 / 11 / 10.9
110-D-105	1	Sump Drum	H-SADDLE	2250 ID x 6750 TL	A516GR60N	14.9 / 15 / 14.9
111-D-1/2/3/4/5/601	6	1st Stage Suction Drum	V-SKIRT	2100 ID x 3600 TL	A516GR60N	18.5 / 19 / 18.5
111-D-1/2/3/4/5/602	6	2nd Stage Suction Drum	V-SKIRT	2400 ID x 4000 TL	A516GR60N	21.6 / 22 / 21.6
111-D-1/2/4/503	4	Refrigerant Surge Drum	H-SADDLE	3200 ID x 12800 TL	A516GR60N	38.2 / 39 / 38.2
111-D-204/504	2	Refrigerant Sump Drum	H-SADDLE	2600 ID x 7800 TL	LTCS	14 / 15 / 14
113-D-1/201	2	Disulfides Separator	H-SADDLE + Dome	2900 ID x 14500 TL	CS / SS 304 L	7 / 8 (SS) 12 / 14 / 24 (CS)
113-D-1/202	2	C4 washing drum	H-SADDLE	-	CS	26 / 30 / 26
113-D-1/203	2	Spent Caustic Sump Drum	H-SADDLE	3300 ID x 11800 TL	LTCS	12 / 15 / 12 / 15 / 12
113-D-1/204	2	Catalyst Surge Drum	LEG	610 OD x 830 TL	CS	ALL PIPE & CAP SCH. 40 (24")
113-F-1/201	2	Disulfides Sand Filter	LUG	600 ID x 3250 TL	CS	48 (BLD. FLG.) / 8 (SHELL)
113-F-1/202	2	Spent Caustic Filter	LUG	750 ID x 1550 TL	CS	75 (BLD. FLG.) / 8 (SHELL)
114-D-1/201	2	First Settling drum	H-SADDLE	-	LTCS + HIC	32 / 59 / 32
114-D-1/202	2	Second settling drum	H-SADDLE	-	LTCS + HIC	32 / 60 / 32
114-D-1/203	2	First C3 water wash drum	-	-	-	34 / 64 / 34
114-D-1/204	2	Caustic prewash drum	-	-	-	33 / 60 / 33

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ITEM	Q'ty	DESCRIPTION	TYPE	DIMENSION ( Φ ID x L or W x L x H)	material spec.	min. required th'k (top head/shell/btm head)
114-D-1/205	2	Second C3 water wash Drum	H-SADDLE	2800 ID X 11200 TL	LTCS	31 / 60 / 31
114-D-1/206	2	Flash drum	V-LEG	700 ID X 2550 TL	LTCS + HIC	10 / 12 / 10
114-D-1/207	2	Adsorbers Draining / Filling Drum	V-SKIRT	2300 ID X 8350 TL	SS 304L	31 / 32 / 31
114-D-1/208	2	First Regeneration Gas KO Drum	V-LEG	850 ID X 3000 TL	KCS + HIC	17 / 20
114-D-1/209	2	Second Regeneration Gas KO Drum	V-SKIRT	1100 ID X 3250 TL	SS 304L	8 / 8 / 8
114-F-101	2	C3 Sand Filter	V-SKIRT	2650 ID X 5300 TL	LTCS	30 / 56 / 30
114-F-102	2	C3 Sand Guard Filter	V-LEG	By Vendor	LTCS	-
114-F-103 A/B	2	C3 Molecular Sieves Guard Filter	V-LEG	By Vendor	LTCS	-
115-D-1/201 A/B	4	C4 Water Wash drum	H-SADDEL	2300 ID X 9200 TL	CS	27 / 28 / 27
115-D-1/202	2	Adsorbers Draining / Filling Drum	V-LEG	2300 ID X 6900 TL	LTCS	19 / 19 / 19
115-D-1/203	2	Regeneration Gas KO Drum	H-SADDLE	750 ID X 2300 TL	KCS + HIC	/ 11 / 10
115-F-1/201	2	Butane Sand Filter	V-SKIRT	2250 ID X 4900 TL	CS	27 / 28 / 27
115-F-1/202	2	C4 Sand Guard Filter	V-SKIRT	By Vendor	CS	-
115-F-1/203 A/B	4	C4 Molecular Sieves Guard Filter	V-SKIRT	By Vendor	CS	-
116-D-1/201	2	Ethane Dryer Inlet Separator	V-SKIRT	1100 ID x 2875 TL	A516-60N+S5	22/ 26 / 22
116-D-1/202 A/B	4	Ethane Dryer	V-SKIRT	2300 ID x 6500 TL	A516GR60N	24 / 44 / 24
116-D-1/203	2	Regeneration Gas Separator	V-LEG	760 ID x 2870 TL	A516-60N+S5	90 / 20 / 16
116-D-1/204	2	Ethane Oily water Flash Drum	V-LEG	760 ID x 2150 TL	A516-60N+S5	29/8/8
116-D-1/211	2	Feed Gas K.O. Drum	V-SKIRT	1400 ID x 2900 TL	CS	27 / 28 / 27
116-D-1/212	2	Treated Gas K.O. Drum	V-SKIRT	2000 ID x 5100 TL	SA516GR70N	32 / 34 / 32

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116-D-1/213	2	Rich Amine Flash Drum	H-SADDLE	1900 ID x 5700 TL	SA516GR70N	13 / 15 / 13
116-D-1/214	2	Reflux Drum	V-SKIRT	1000 ID x 3300 TL	SA240TP316L	8 / 8 / 8
116-D-1/215	2	Steam Condensate Surge Drum	V-SKIRT	1300 ID x 3600 TL	SA516GR70N	8 / 10 / 8
116-D-1/216	2	Hydrocarbon Skim Pot	H-SADDLE	1000 ID x 2500 TL	SA516GR60N+S5	-
116-D-1/217	2	Amine Sump Drum	H-SADDLE	1500 ID x 3900 TL	SA516GR60N+S5	8/12/8
121-D-104	1	Contaminated Condensate Vessel	H-SADDLE	2650 ID x 7950 TL	A516-70	9.4 / 10 / 9.4
121-D-105	1	Cooled Condensate Storage Drum	H-SADDLE	2700 ID x 8100 TL	A516-70	8.5 / 9 / 8.5
121-D-106 A/B	2	Deaerators	H-SADDLE	By Vendor	By Vendor	By Vendor
122-D-101 A/B	2	HP Fuel Gas Drums	V-SKIRT	1600 ID x 3030 H	A516-70	12 / 24 / 12
122-D-102 A/B	2	LP Fuel Gas Drums	V-SKIRT	1500 ID x 2980 H	A516-70	7.7 / 8 / 7.7
140-D-1/201	2	HP Wet Flare KO Drum	H-SADDLE	5200 ID x 12000 TL	A516-60N	35 / 35 / 35
140-D-1/202	2	LP Flare WET KO Drum	H-SADDLE	4000 ID x 5000 TL	A516-60N	15 / 18 / 15
140-D-1/203	2	MP Flare KO Drum	H-SADDLE	5400 ID x 9000 TL	A516-60N	21 / 28/ 21
140-D-1/204	2	HP Cold Flare KO Drum	H-SADDLE	5000 ID x 11400 TL	A240-321	28 / 32 / 28
140-D-105	1	LLP Gas Header KO Drum	H-SADDLE	1400 ID x 3500 TL	A516-70	8.5 / 8 / 8.5
141-D-101	1	Utilities and Offsite Drain Drum	H-SADDLE	2000 ID x 4800 TL	A516-70N	9 / 14 / 9
142-D-101	1	Burner Feed Drum	H-SADDLE	3700 ID x 10200 TL	A516-70N	18 / 22 / 18 / 22 / 18
143-D-101	1	Sump Drum	H-SADDLE	2250 ID x 6750 TL	A516-60	9.4 / 9 / 9.4
143-D-102	1	Degassing Boot	V-SKIRT	1200 ID x 3000 H	A516-60	7.7 / 9 / 7.7

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ITEM	Q'ty	DESCRIPTION	TYPE	DIMENSION ( Φ ID x L or W x L x H)	material spec.	min. required th'k (top head/shell/btm head)
145-D-101	1	Propane Refrigerant Storage	H-SADDLE	3600 ID x 15100 TL	A516-60	21 / 40 / 21
146-D-101	1	Fresh Methanol Storage Drum	H-SADDLE	2700 ID x 7800 TL	A516-70	10.2 / 10 / 10.2
146-D-102	1	Fresh Caustic Soda (40%) Storage Drum	V-SKIRT	3300 ID x 8500 H	A516-70	10.2 / 11 / 10.2
146-D-103	1	Storage Sump Drum	<b>H-SADDLE</b>	2100 ID x 9300 TL	A516-70	9.4 / 9 / 9.4
147-D-101 A/B	2	Low Pressure Suction Drum	<b>V-SKIRT</b>	2100 ID x 3600 TL	A516-60N	20 / 24 / 20
147-D-102 A/B	2	Medium Pressure Suction Drum	V-SKIRT	1500 ID x 3200 TL	A516-60N	15 / 18 / 15
147-D-103 A/B	2	High Pressure Suction Drum	V-SKIRT	1600 ID x 3200 TL	A516-60N	16 / 18 / 16
147-D-104	1	Refrigerant Surge Drum	H-SADDLE	2900 ID x 11300 TL	A516-60N	21 / 39 / 21
147-D-105	1	Propane BOG Compressor Suction Drum	V-SKIRT	2000 ID x 3550 TL	A516-60N	11 / 13 / 11
147-D-106	1	Recovered Propane Drum	H-SADDLE	1500 ID x 5000 TL	A516-60N	15 / 18 / 15
147-D-107	1	LPG Flare KO Drum	H-SADDLE	3000 ID x 7500 TL	A516-60N	12 / 15 / 12 / 15 / 12
147-D-108	1	Refrigeration Area Drain Drum	H-SADDLE	3300 ID x 8000 TL	A516-60N	10 / 16 / 10
147-D-109	1	Tank Area Drain Drum	H-SADDLE	3000 ID x 7000 TL	A516-60N	10 / 16 / 10
108-D-504	2	Reflux Drum	V-SKIRT	1600 ID X 3600 TL	CS	-
108-D-502	2	Slop Drum	V-SKIRT	3000 ID X 8000 TL	CS	-
104-R-1/2/3/401 A/B/C	12	Driers	V-SKIRT	3500 ID X 5500 H	1501-225GR490B LT50	54 / 107 / 54
104-R-1/2/3/402	4	Mercury Guard Reactor	V-SKIRT	4200 ID X 7600 TL	1501-225GR490B LT30	46 / 89 / 46

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					Shell Side	Tube Side	Shell Side	Tube Side
							Shell/Head	Shell/Head
100-E-1/201	2	Gas Heater	BEM	1150 ID X 3048 TL	A516-60	A516-60+340S.S CLAD	13, -	42, -
101-E-1/2/3/401	4	Rich /Lean Amine Exchanger	Plate H/Ex	By Vendor	By Vendor	By Vendor	Vendor Scope	Vendor Scope
101-E-1/2/3/402	4	Regenerator Reboiler	BKU	2090X2895X6096	CS	SS316L	Vendor Scope	Vendor Scope
101-E-1/2/3/403	4	Lean Amine Trim Cooler	Plate H/Ex	By Vendor	By Vendor	By Vendor	Vendor Scope	Vendor Scope
101-E-1/2/3/404	4	Treated Gas Cooler	AJN	1230 X 6096	SS316L	Titanium	Vendor Scope	Vendor Scope
103-E-1/201 A/B	4	Condensate Preflash Heater	NEN	982 ID X 7315 TL	A516-60+N	A516-60	12, -	67, -
103-E-1/202	2	Condensate Desalter Preheater	AES	610 ID X 4267 TL	A516-60	A516-60+N	10/12, 12	16, -
103-E-1/203	2	Stabiliser Reboiler	BKU	850 X 1480.1 ID X 6096 TL	A516-60+N	A516-60	13, 13	29, 25
103-E-1/204	2	Stabiliser Side Reboiler	BXU	1000 ID x 6096 TL	A516-60+N	A516-60	13, 13	13, 13
104-E-1/2/3/401	4	Gas-Gas Exchanger	BEM	1550 ID X 7315 TL	A516-60	A516GR60+321 S.S CLAD	28, -	54, 52
104-E-1/2/3/402	4	Wet Gas Chiller	BKU	1780 X 2438 ID X 4877 TL	A516-60	516-60+3mm CLAD 321 S. A	26, 22.1	65, 63
104-E-1/2/3/403	4	Dry Gas Heater	BEM	650 ID X 1600 TL	A516-60	A516-60	31, -	27, -
105-E-1/2/3/401	4	Cold Box	Brazed Al.	Vendor Item	Vendor Item	Vendor Item	Vendor Item	Vendor Item
105-E-1/2/3/403	4	Demethanizer Reboiler	BEM	580 ID X 3658 TL	A516-60	A240-304L	13, 16	11, 10
105-E-1/2/3/404	4	Deethanizer Reboiler	BKU	1500 ID X 6096 TL	A516-60+N	A516-60	14, 20, 29, 33	20, 17
105-E-1/2/3/405	4	Deethanizer Condenser	BKU	2500 ID X 8534 TL	A516-60	A240-340L	23,26,27	23, 23
105-E-1/2/3/406	4	Ethane Heater	BEU	600 ID X 3658 TL	A516-60	A240-340L	12	13, 11

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					Shell Side	Tube Side	Shell Side	Tube Side
							Shell/Head	Shell/Head
107-E-1/201	2	Depropanizer Reboiler	BKU	2320 ID X 12660 TL	A516-60N	A516-60	31, 31	26, 23
107-E-1/202	2	Debutanizer Reboiler	BKU	1200 ID X 9040 TL	A516-60+N	A516-60	13, 13	12, 12
107-E-1/204	2	Butane Cooler	NEN	440 ID X 8360 TL	A516-60	SB265-2 UNS NO. R50400	10, -	6, -
108-E-1/2/3/401	4	Claus process gas cooler	BEM	2000 ID X 8000 TL	SHELL : CS / TUBE : CS		SHELL : 48.3 / TUBE : 4	
108-E-1/2/3/402	4	Sulphur Condenser 1	BEM	1700 ID X 8000 TL	SHELL : CS / TUBE : CS		SHELL : 48.3 / TUBE : 4	
108-E-1/2/3/403	4	Process gas heater	BEM	1500 ID X 4000 TL	SHELL : CS / TUBE : CS		SHELL : 48.3 / TUBE : 4	
108-E-501	4	Process gas cooler	BEM	2400 ID X 9000 TL	SHELL : CS / TUBE : CS		SHELL : 48.3 / TUBE : 4	
108-E-502/503/504	4	Water/lean solution and solution Trim Coolers	Sealed PL		SS 316 L			
108-E-505	4	Reboiler	BKU	1600 ID X 7315 TL	SHELL : KCS / TUBE : SS 316L		SHELL : 19.05 / TUBE : 1.65	
108-E-506	4	Sour gas Trim Condenser	BXU	1150 ID X 5000 TL	SHELL : KCS / TUBE : SS 316L		SHELL : 19.05 / TUBE : 1.651	
109-E-101	1	1st Sour Water Stripper Reboiler	BKU	1157 ID X 6706 TL	A516-60	516-60+3mm CLAD 304LS	13, 13	12, 12
109-E-102	1	2nd Sour Water Stripper Reboiler	BKU	1157 ID X 6706 TL	Same as 109-E-101			
110-E-101 A/B	2	Condensate Preflash Heater	NEN	850 ID X 7315 TL	A516-60+N	A516-60	12, -	62, -
110-E-102	1	Condensate Second Heater	AES	711 ID X 6096 TL	A516-60	A516-60+N	10/12, 12	10, -
110-E-103	1	Condensate Final Heater	BEU	762 ID X 6096 TL	A516-60+N	A516-60	12, 12	27, 23
113-E-1/201	2	Oxidizer LP Steam Heater	Double pipe	-	CS+PWHT	-	-	-



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ITEM	Q'ty	DESCRIPTION	TYPE	DIMENSION (Φ ID x L or W x L x H)	Material spec.		Thickness [mm]	
					Shell Side	Tube Side	Shell Side	Tube Side
							Shell/Head	Shell/Head
113-E-1/202	2	Lean Caustic Cooler	AEU	-	CS+PWHT	-	-	-
114-E-1/201	2	Propane Cooler	AEU	-	LTCS	-	-	-
114-E-1/202	2	First regeneration gas cooler	Double pipe	-	CS			
114-E-1/203	2	Second regeneration gas cooler	Double pipe	-	SHELL SIDE: CS+ SS 304L	114-E-1/203	2	Second regeneration gas cooler
115-E-1/201	2	Butane Regeneration Trim Cooler	Double pipe	115 ID X 5490 TL	CS+HIC	-	-	-
116-E-1/201	2	Ethane Cooler	AEM	740 ID X 6096 TL	A516-60	SB265-2 UNS NO. R50400	16, -	14, -
116-E-1/211 A/B	4	Rich/Lean Amine Exchanger	Plate H/Ex		Plate: SS316 L	For pieces not contact with amine: CS	-	-
116-E-1/212	2	Regenerator Reboiler	BKU		CS	SS316 L	-	-
128-E-101	1	Potable Water Heat Exchanger	Plate H/Ex	825W X 320L X 920H	By Vendor	By Vendor	By Vendor	By Vendor
146-E-101	1	Fresh Caustic Soda (40%) Cooler	AES	965 ID X 7315 TL	A516-60	A240-304	12/13, 13	14, -
146-E-102	1	Fresh Caustic Soda (7%) Cooler	AES	661 ID X 6096 TL	A516-60	A240-304	10/12, 12	17, -
147-E-101	1	Low Pressure Propane Chiller	BKU	1168 ID X 6096 TL	A516-70	A516-70	14, 13	24, 20.4
147-E-102	1	Medium Pressure Propane Chiller	BKU	2200 ID X 6658 TL	A516-60	A516-60	16, 14	24, 21



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ITEM	Q'ty	DESCRIPTION	TYPE	DIMENSION	Material spec.		Thickness [mm]	
					Shell Side	Tube Side	Shell Side	Tube Side
				(Φ ID x L or W x L x H)			Shell/Head	Shell/Head
147-E-103	1	High Pressure Propane Chiller	BKU	2200 ID X 7450 TL	A516-60	A516-60	15, 13	21, 18
147-E-104	1	Propane Boil Off Gas Condenser	BKU	1200 ID X 3658 TL	A516-60	A516-60	13, 13	10, 10
148-E-101	1	High Pressure Butane Chiller	BKU	1700 ID X 7158 TL	A516-60	A516-60	12, 12	12, 10.2
148-E-102	1	Medium Pressure Butane Chiller	BKU	1700 ID X 5400 TL	A516-60	A516-60	12, 12	12, 11
148-E-103	1	Butane Circulation Subcooler	BKU	1600 ID X 6095 TL	A516-60	A516-60	12, 12	13, 12

General Note:

1. The material and thickness for equipments of all units will be finalized after receiving vendor documents..
2. Deleted.

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## 5.2 UNIT 100

### 5.2.1 BDV 0040

#### Volume Calculation :

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
B.L.	100-D-101	3	MIXED	470	715.283	932910	63.800	0.0001	0.9999	1.35	1201
HEADER	100-D-102		MIXED	235	715.283	466455	63.800	0.0001	0.9999	0.37	331
103-A-103	HEADER	27	GAS	0	0	44828	77.198	0.0000	1.0000	0.00	11
100-D-101	UNIT 103	100_6	LIQUID	607	691.256	0.00	0.000	1.0000	0.0000	51.15	0
100-D-102	UNIT 103		LIQUID	607	691.256	0.00	0.000	1.0000	0.0000	51.15	0
100-D-102	Line10011		GAS	0	0	466399.5	62.977	0.0000	1.0000	0.00	148
100-D-101	100-E-101		GAS	0	0	466399.5	62.977	0.0000	1.0000	0.00	89
100-E-101	B.L.	HP_SEP-VAP	GAS	0	0	922892	61.687	0.0000	1.0000	0.00	1626
100-D-101					691.256		62.977			11210.10	3097
100-D-102					691.256		62.977			11210.10	3097
100-E-101		HP_SEP-VAP			0		61.687			0.00	128
	Total	Quantity								22524.22	9729

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
B.L.	100-D-101	30	30.00	F23S	762	80.00	34.80	692.40	27.260	0	50	0.002	18.825	18.827
HEADER	100-D-102	24	24.00	F23S	609.6	80	30.96	547.68	21.562	0	22	0.001	5.182	5.183
103-A-103	HEADER	8	8.63	F48	219.2	80	12.70	193.80	7.630	0	5	0.000	0.147	0.147
100-D-101	UNIT 103	4	4.50	F23S	114.3	80	8.56	97.18	3.826	0	10	0.074	0.000	0.074
100-D-102	UNIT 103	4	4.50	F23S	114.3	80	8.56	97.18	3.826	0	10	0.074	0.000	0.074
100-D-102	Line10011	24	24.00	F23S	609.6	80	30.96	547.68	21.562	0	10	0.000	2.356	2.356
100-D-101	100-E-101	24	24.00	F23S	609.6	80	30.96	547.68	21.562	0	6	0.000	1.413	1.413
100-E-101	B.L.	30	30.00	F23S	762	80	34.80	692.40	27.260	0	70	0.000	26.357	26.357
100-D-101												16.217	49.183	
100-D-102												16.217	49.183	
100-E-101												0.000	2.070	
	Total											32.58	154.717	187.301

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Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
B.L.	100-D-101	3	MIXED	470	715.283	923029	63.800	43.505	0.000	0.033	0.033
HEADER	100-D-102		MIXED	235	715.283	461515	63.800	34.412	0.000	0.033	0.033
103-A-103	HEADER	27	GAS	0	0	33020	77.198	0.000	0.000	0.000	0.000
100-D-101	UNIT 103	100_6	LIQUID	607	691.256	0.00	0.000	3.053	0.000	2.997	2.997
100-D-102	UNIT 103		LIQUID	607	691.256	0.00	0.000	3.053	0.000	2.997	2.997
100-D-102	100_10011		GAS	0	0	461446	62.977	17.206	0.000	0.000	0.000
100-D-101	100-E-101		GAS	0	0	461446	62.977				
100-E-101	B.L.	HP_SEP-VAP	GAS	0	0	922892	61.687	43.505	0.000	0.033	0.033
100-D-101					691.256		62.977	72.860			72.860
100-D-102					691.256		62.977	72.860			72.860
100-E-101		HP_SEP-VAP			0		61.687				4.150
	Total	Quantity						290.454	0.000	6.09	156

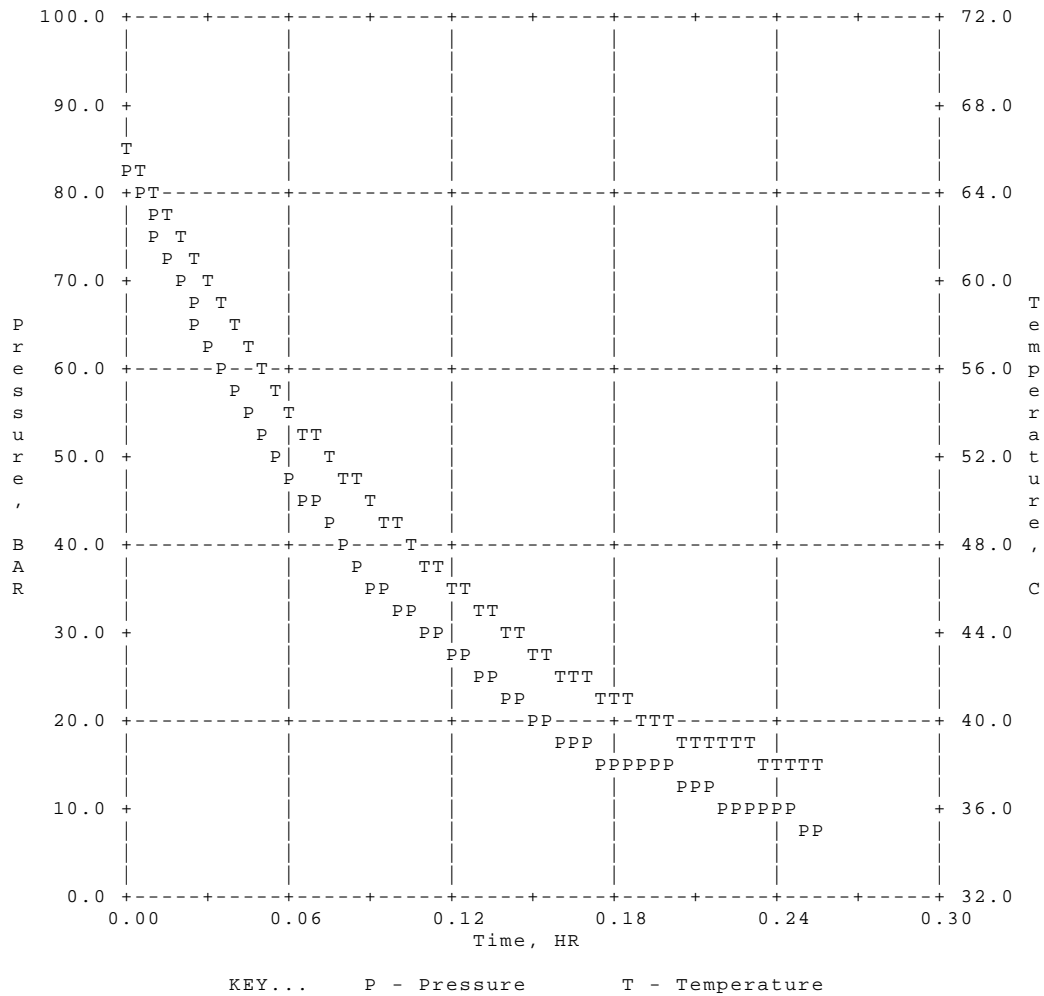
Fire Case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	66.4	1.084E+05	1722.490
1.5E-02	72.060	62.8	1.014E+05	1721.177
3.0E-02	62.661	59.6	88172.791	1718.915
4.5E-02	54.546	56.7	76765.127	1717.683
6.0E-02	47.516	54.1	66866.030	1717.167
7.5E-02	41.411	51.7	58261.326	1717.138
9.0E-02	36.099	49.6	50772.952	1717.430
0.105	31.474	47.7	44250.927	1717.927
0.120	27.442	46.1	38567.645	1718.542
0.135	23.926	44.6	33613.709	1719.218
0.150	20.860	43.3	29294.796	1719.912
0.165	18.185	42.1	25529.250	1720.597
0.180	15.852	41.1	22246.167	1721.254
0.195	13.816	40.2	19383.858	1721.873
0.210	12.041	39.4	16888.576	1722.448
0.225	10.493	38.8	14713.452	1722.975
0.240	9.143	38.2	12817.590	1723.455
0.255	7.966	37.6	11165.302	1723.888

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Pressure and Temperature Profiles:

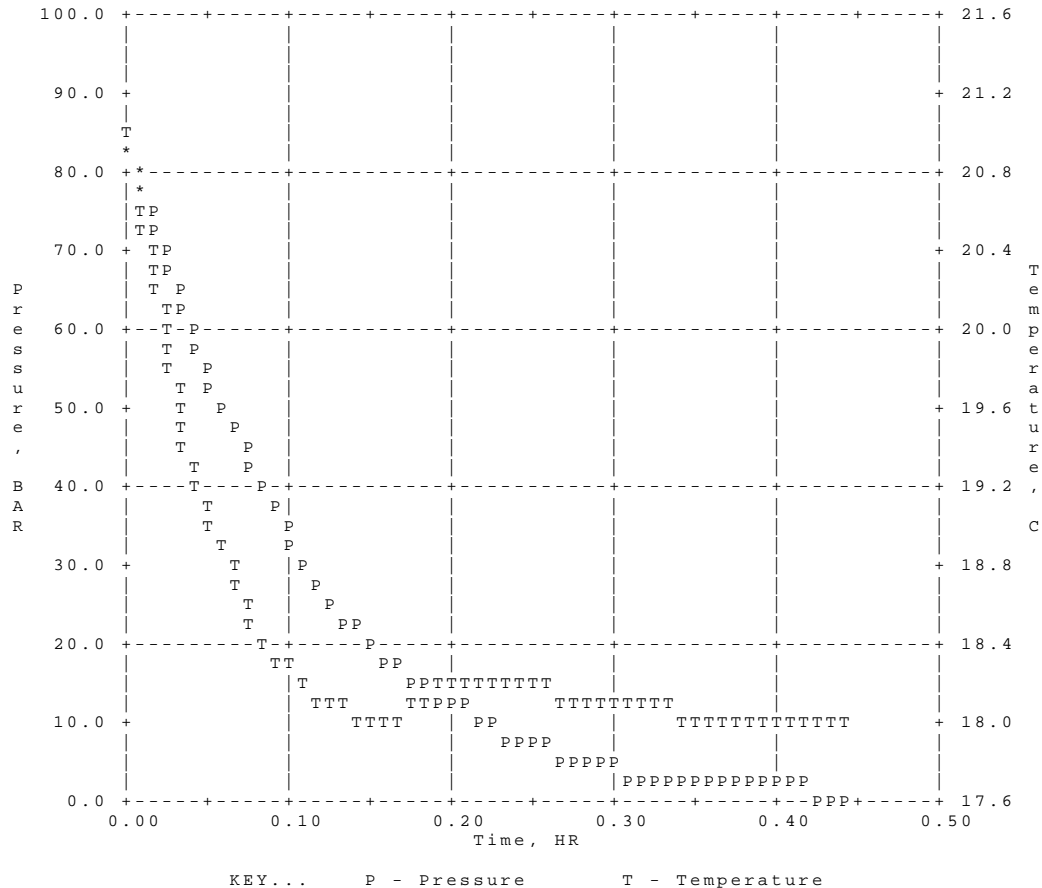


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	1.227E+05	1522.256
4.0E-02	58.441	19.2	1.034E+05	1538.934
8.0E-02	40.398	18.4	70467.805	1577.933
0.120	27.389	18.1	47371.351	1609.822
0.160	18.282	18.0	31468.371	1632.718
0.200	12.078	18.2	20717.215	1648.599
0.240	7.906	18.2	13550.084	1659.172
0.280	5.152	18.1	8820.479	1665.434
0.320	3.348	18.1	5728.289	1669.331
0.360	2.174	18.0	3716.211	1671.823
0.400	1.413	18.0	2410.955	1673.650
0.440	0.920	18.0	1566.358	1675.164

Pressure and Temperature Profiles

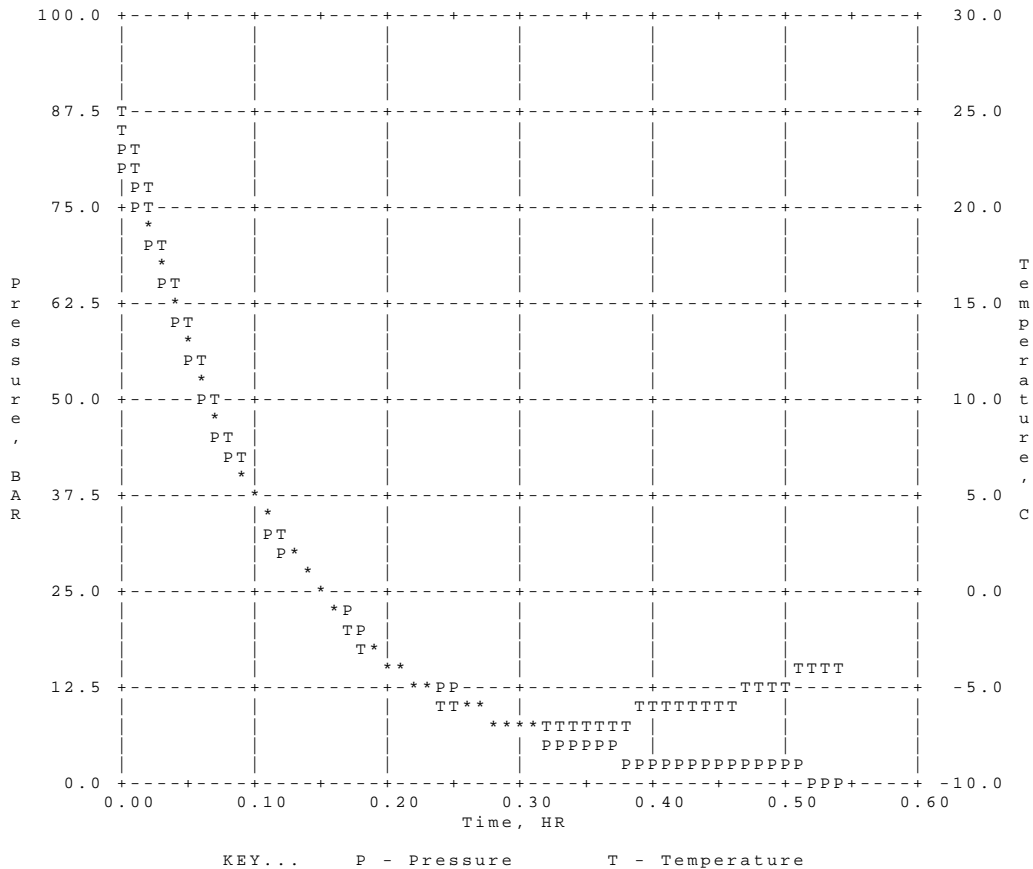


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	25.1	1.210E+05	1543.162
4.0E-02	59.546	15.3	94578.108	1542.670
8.0E-02	43.063	8.0	67916.698	1551.934
0.120	31.136	2.6	48795.304	1562.273
0.160	22.477	-1.1	35038.200	1571.145
0.200	16.179	-3.8	25133.893	1577.972
0.240	11.625	-5.6	18011.947	1582.866
0.280	8.343	-6.5	12901.556	1586.324
0.320	5.982	-6.9	9239.465	1588.566
0.360	4.287	-6.8	6618.179	1589.688
0.400	3.073	-6.5	4743.608	1589.659
0.440	2.204	-5.9	3404.014	1588.342
0.480	1.582	-5.2	2447.254	1585.512
0.520	1.138	-4.4	1764.178	1580.869
0.540	0.966	-3.9	1499.878	1577.759

Pressure and Temperature Profiles



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### 5.2.2    XV 0018

For slug catcher only two cases have been considered:

Depressurization during normal operation (only bottles full of liquid) and after pigging operation (bottles and fingers full of liquid).

Fire case is not considered, as the BDV flow rate is defined by the HP flare design load.

The PRO/II simulation on order to obtain a vent flow rate of 238538.3 kg/hr (Winter case: 216853 kg/hr \*1.1 (over design factor)), so the result to be achieved is the corresponding depressuring time



Volume calculation:

1. Normal operation:

Total Volume: 2336 m<sup>3</sup> ; Liquid Volume: 319 m<sup>3</sup>

2. After Pigging:

Total Volume: 2336 m<sup>3</sup> ; Liquid Volume: 2110 m<sup>3</sup>

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Depressurization during normal operation:

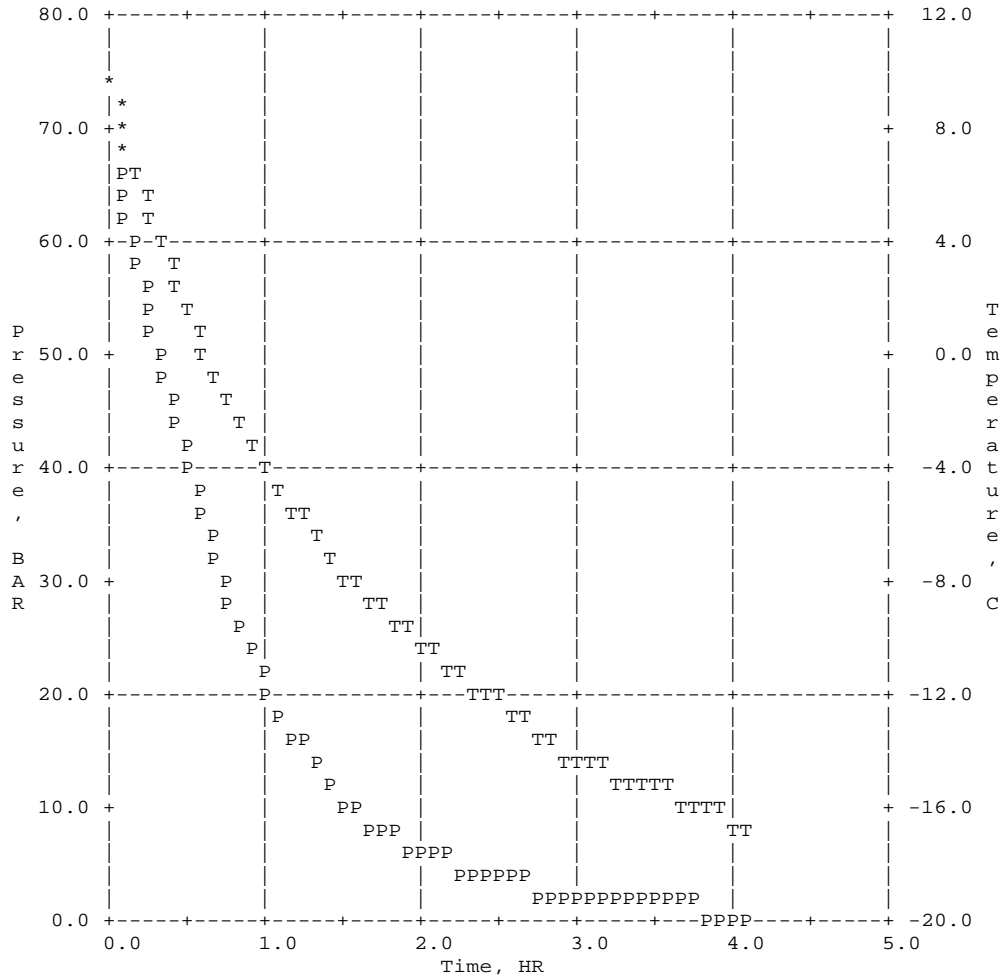
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	75.000	10.0	2.347E+05	3170.877
6.2E-02	69.219	8.6	2.251E+05	3178.635
0.124	63.871	7.4	2.067E+05	3194.359
0.189	58.700	6.1	1.895E+05	3209.249
0.258	53.708	4.9	1.730E+05	3223.484
0.330	48.890	3.7	1.573E+05	3236.871
0.407	44.242	2.6	1.422E+05	3249.219
0.489	39.762	1.4	1.278E+05	3260.321
0.576	35.452	3.1E-01	1.141E+05	3269.938
0.671	31.325	-7.4E-01	1.011E+05	3277.865
0.774	27.358	-1.9	88664.484	3283.650
0.888	23.575	-3.0	76882.013	3286.732
1.014	19.982	-4.1	65750.133	3286.609
1.157	16.594	-5.3	55282.869	3282.427
1.320	13.427	-6.5	45506.963	3272.956
1.513	10.506	-7.7	36464.114	3256.368
1.746	7.863	-9.1	28216.143	3229.844
2.037	5.540	-10.6	20851.280	3188.881
2.419	3.591	-12.2	14489.853	3126.112
2.955	2.077	-14.1	9281.265	3029.578
3.489	1.288	-15.6	5762.561	2897.109
4.076	0.825	-16.9	3803.248	2756.483



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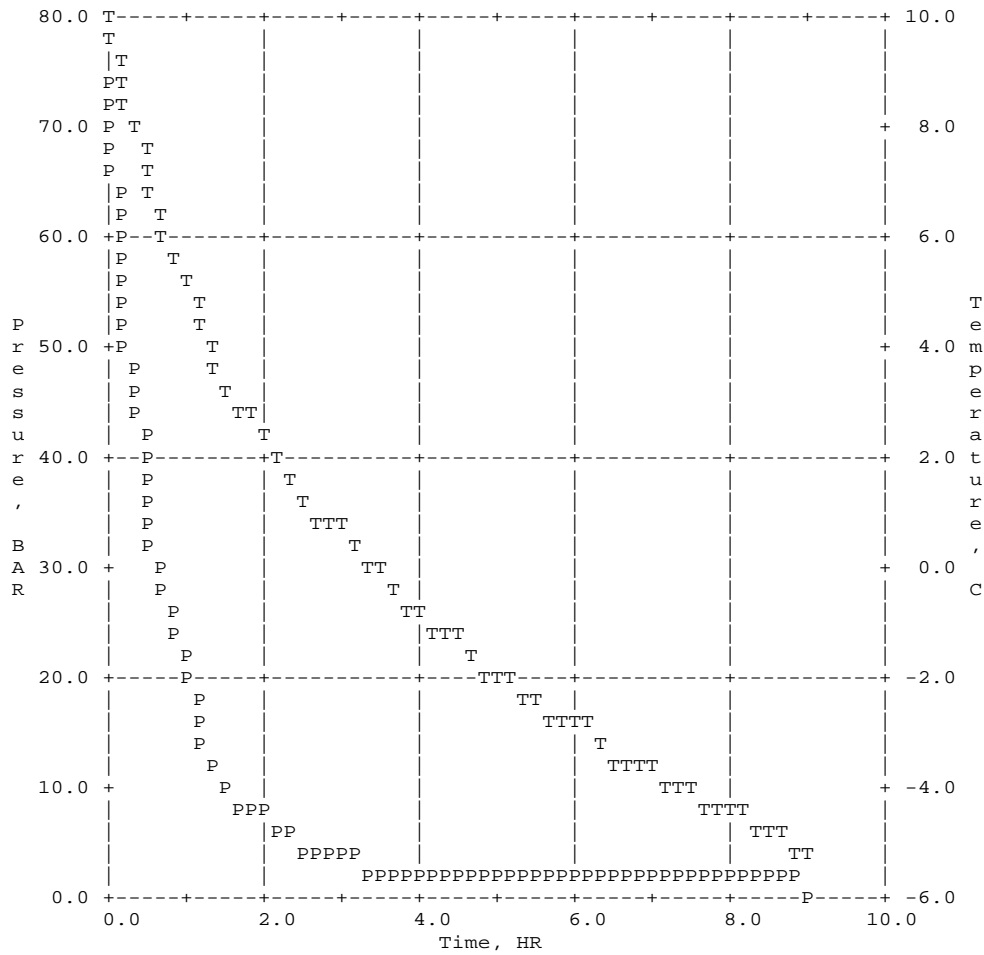
Depressurization after pigging operation:



\*\*\* DEPRESSURING SUMMARY

TIME	PRES HR	TEMP BAR	---- VENT RATE ---- C	KG/HR	M3/HR
0.000		75.000	10.0	2.347E+05	3170.877
7.1E-02	0.149	67.118	9.5	2.214E+05	3184.506
0.237	0.237	59.598	9.0	1.957E+05	3211.979
0.335	0.335	52.272	8.4	1.715E+05	3235.975
0.442	0.442	45.357	7.8	1.488E+05	3255.609
0.557	0.557	38.993	7.3	1.280E+05	3269.425
0.680	0.680	33.264	6.7	1.094E+05	3276.367
0.811	0.811	28.204	6.2	93096.300	3275.748
0.949	0.949	23.807	5.7	78978.708	3267.218
1.094	1.094	20.037	5.2	66914.667	3250.725
1.246	1.246	16.842	4.7	56706.962	3226.481
1.404	1.404	14.158	4.2	48137.246	3194.934
1.569	1.569	11.926	3.8	40993.654	3156.746
1.741	1.741	10.070	3.4	35057.115	3112.795
1.920	1.920	8.539	2.9	30130.907	3064.124
2.106	2.106	7.280	2.5	26057.688	3011.932
2.298	2.298	6.246	2.1	22690.909	2957.490
2.499	2.499	5.398	1.7	19906.542	2902.099
2.706	2.706	4.702	1.3	17600.338	2847.014
2.921	2.921	4.130	9.8E-01	15685.561	2793.377
3.143	3.143	3.658	6.3E-01	14090.578	2742.155
3.372	3.372	3.269	2.8E-01	12756.541	2694.105
3.607	3.607	2.946	-5.0E-02	11636.888	2649.700
3.849	3.849	2.676	-3.8E-01	10690.585	2609.259
4.097	4.097	2.450	-6.9E-01	9884.147	2572.923
4.351	4.351	2.258	-1.0	9193.329	2540.609
4.609	4.609	2.095	-1.3	8596.967	2512.109
4.873	4.873	1.955	-1.6	8077.975	2487.126
5.141	5.141	1.833	-1.9	7622.533	2465.312
5.413	5.413	1.727	-2.2	7219.483	2446.294
5.689	5.689	1.633	-2.4	6859.825	2429.701
5.968	5.968	1.549	-2.7	6536.309	2415.180
6.251	6.251	1.474	-2.9	6243.092	2402.405
6.536	6.536	1.406	-3.2	5975.467	2391.087
6.825	6.825	1.344	-3.4	5729.637	2380.970
7.116	7.116	1.287	-3.7	5502.523	2371.834
7.410	7.410	1.234	-3.9	5291.645	2363.496
7.706	7.706	1.185	-4.1	5094.981	2355.799
8.004	8.004	1.140	-4.3	4910.864	2348.614
8.305	8.305	1.097	-4.5	4737.926	2341.837
8.608	8.608	1.057	-4.7	4575.031	2335.381
8.760	8.760	1.019	-4.9	4421.228	2329.179
9.069	9.069	1.001	-5.0	4310.364	2324.585
		0.966	-5.2	4204.790	2320.165

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Pressure and Temperature Profiles



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**5.3      UNIT 101**

**5.3.1      BDV 0006**

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )			(kg)	(kg)
		101-D-101 Top									
		1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	0.02	0.98	0.00	1349.76
101-D-101	101-F-101	1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	0.02	0.98	39.93	205.17
		101-F-101									
		1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	0.02	0.98	7054.80	2220.00
101-F-101	MOV-0018	1V	VAPOR	0.0	0.0	453297.0	59.2	0.00	1.00	0.00	5.88
101-F-101	Liq. Line check valve	100_6(U-100)	LIQUID	8884.0	587.9	0.0	0.0	1.00	0.00	43.50	0.00
		Total	Quantity							7138.2	3780.8

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
												0.00	22.80	22.80
101-D-101	101-F-101	24	24.0	F23S	609.6	80	31.0	547.7	21.6	5.0	10.0	0.07	3.47	3.53
												12.00	37.50	49.50
101-F-101	MOV-0018	24	24.0	F23S	609.6	80	31.0	547.7	21.6	12.5	16.0	0.00	0.10	0.10
101-F-101	Liq. Line check valve	3	3.5	F23S	88.9	160	11.1	66.6	26	0.0	8.0	0.07	0.00	0.07
												12.1	63.9	76.0

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
<b>Doc. Number : DB-1516-999-P312-212</b>		

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ WET AREA	TOTAL WET AREA	
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	
101-D-101 Top		1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	34.00	0.00	0.00	0.00	
101-D-101	101-F-101	1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	28.73	0.00	0.00	0.00	
	101-F-101	1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	69.10	0.00	21.70	21.70	
101-F-101	MOV-0018	1V	VAPOR	0.0	0.0	453297.0	59.2	54.58	0.00	0.00	0.00	
101-F-101	Liq. Line check valve	100_6(U-100)	LIQUID	8884.0	587.9	0.0	0.0	2.23	0.00	2.23	2.23	
<b>Total</b>									<b>Quantity</b>			
								<b>154.6</b>	<b>0.0</b>	<b>23.9</b>	<b>23.9</b>	

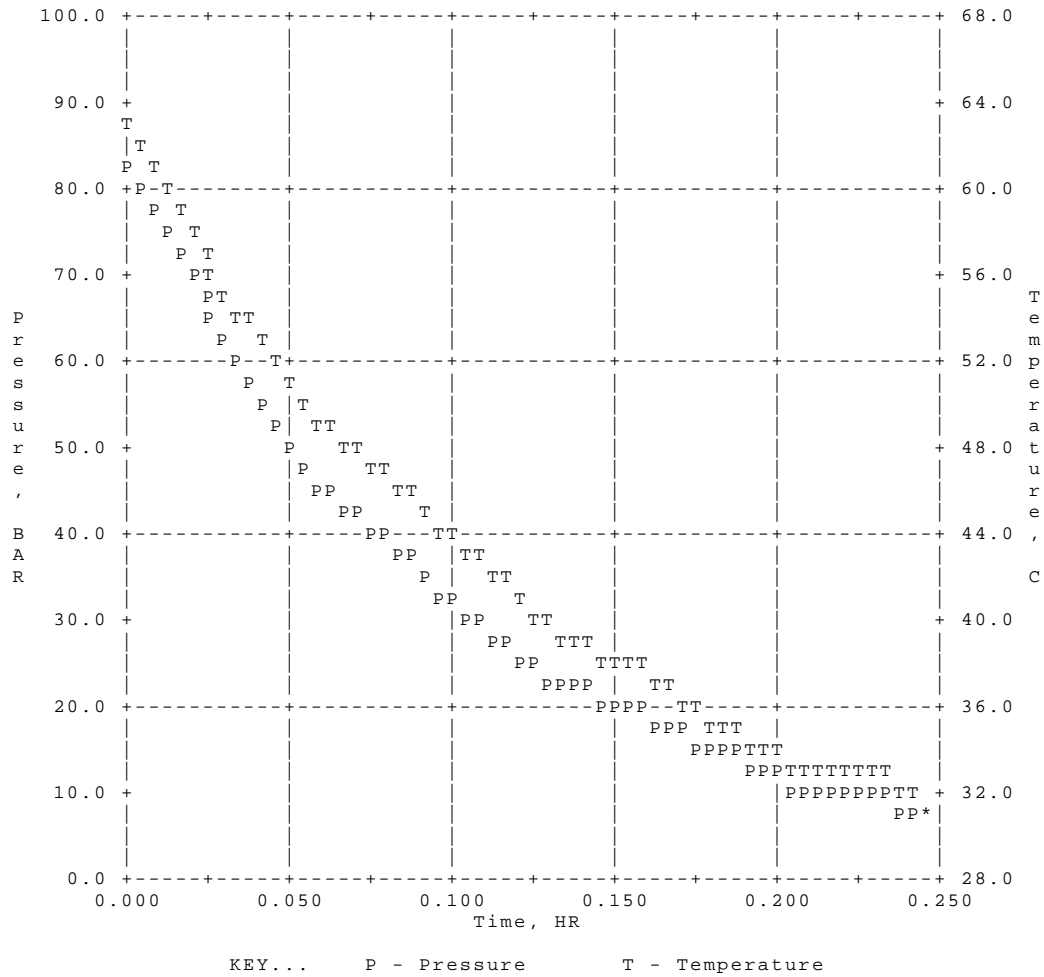
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	----- M3/HR
0.000	83.000	62.9	46563.621	730.115
1.5E-02	71.359	59.0	43368.518	728.932
3.0E-02	61.505	55.5	37442.148	726.736
4.5E-02	53.115	52.3	32365.713	725.283
6.0E-02	45.936	49.5	28000.246	724.481
7.5E-02	39.762	47.0	24237.106	724.129
9.0E-02	34.437	44.7	20988.619	724.007
0.105	29.836	42.7	18181.309	723.995
0.120	25.856	40.9	15753.212	724.025
0.135	22.409	39.3	13651.782	724.059
0.150	19.424	37.8	11832.232	724.074
0.165	16.837	36.5	10256.228	724.058
0.180	14.594	35.4	8890.844	724.005
0.195	12.651	34.3	7707.734	723.914
0.210	10.966	33.4	6682.440	723.784
0.225	9.505	32.6	5793.834	723.617
0.240	8.240	31.8	5023.646	723.414
0.247	7.672	31.4	4505.686	723.236

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

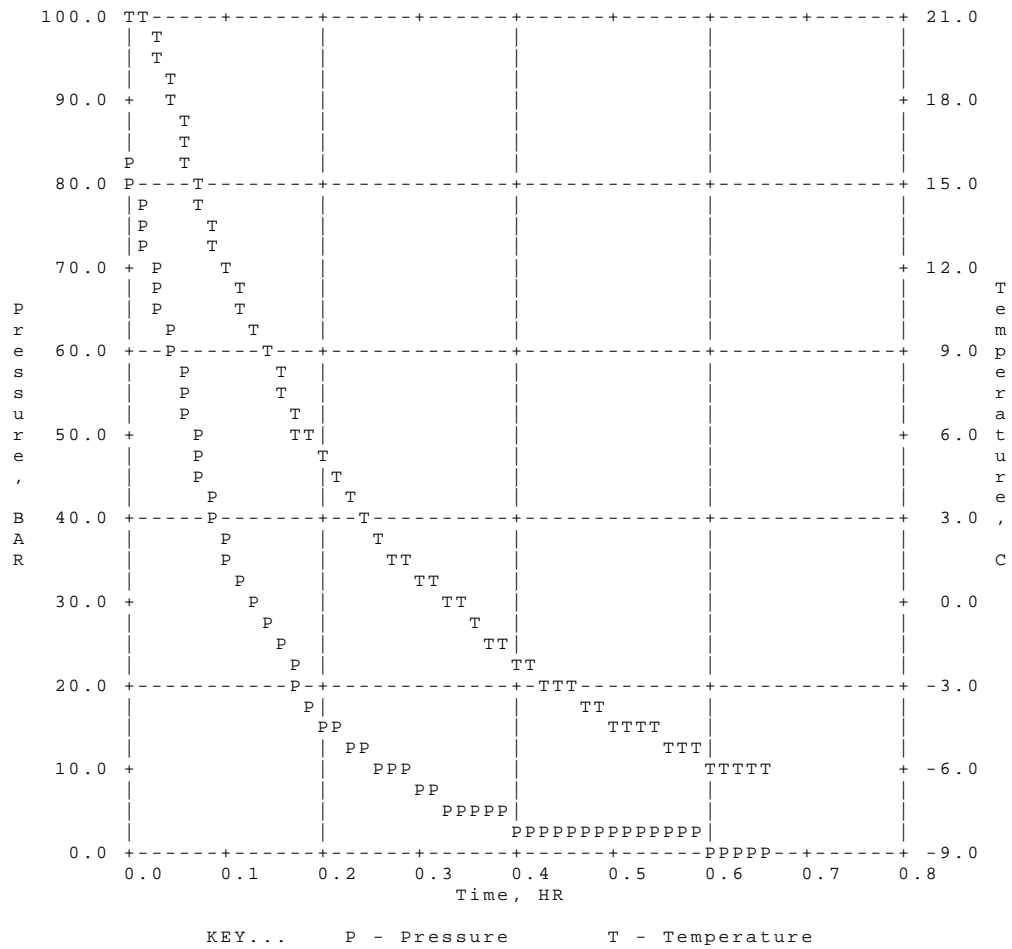
Cold depressurization:

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	51840.114	655.801
2.5E-02	68.077	19.9	46918.739	659.451
5.0E-02	55.014	16.8	37852.326	665.986
7.5E-02	44.536	14.1	30436.429	669.849
1.0E-01	36.105	11.8	24566.018	672.279
0.125	29.314	9.7	19897.946	673.320
0.150	23.842	7.9	16174.495	673.051
0.175	19.435	6.4	13197.600	671.565
0.200	15.884	5.0	10812.806	668.959
0.225	13.024	3.7	8898.618	665.327
0.250	10.719	2.6	7358.992	660.759
0.275	8.858	1.6	6117.809	655.341
0.300	7.354	6.7E-01	5114.664	649.156
0.325	6.136	-1.5E-01	4301.594	642.289
0.350	5.148	-9.0E-01	3640.501	634.822
0.375	4.344	-1.6	3101.117	626.842
0.400	3.687	-2.2	2659.384	618.438
0.425	3.149	-2.8	2296.169	609.700
0.450	2.706	-3.3	1996.241	600.720
0.475	2.341	-3.8	1747.465	591.586
0.500	2.038	-4.2	1540.157	582.387
0.525	1.786	-4.6	1366.577	573.205
0.550	1.576	-5.0	1220.526	564.114
0.575	1.398	-5.3	1097.028	555.182
0.600	1.249	-5.6	992.079	546.467
0.625	1.122	-5.9	902.446	538.017
0.650	1.014	-6.2	825.516	529.872
0.662	0.965	-6.3	773.767	523.788

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles





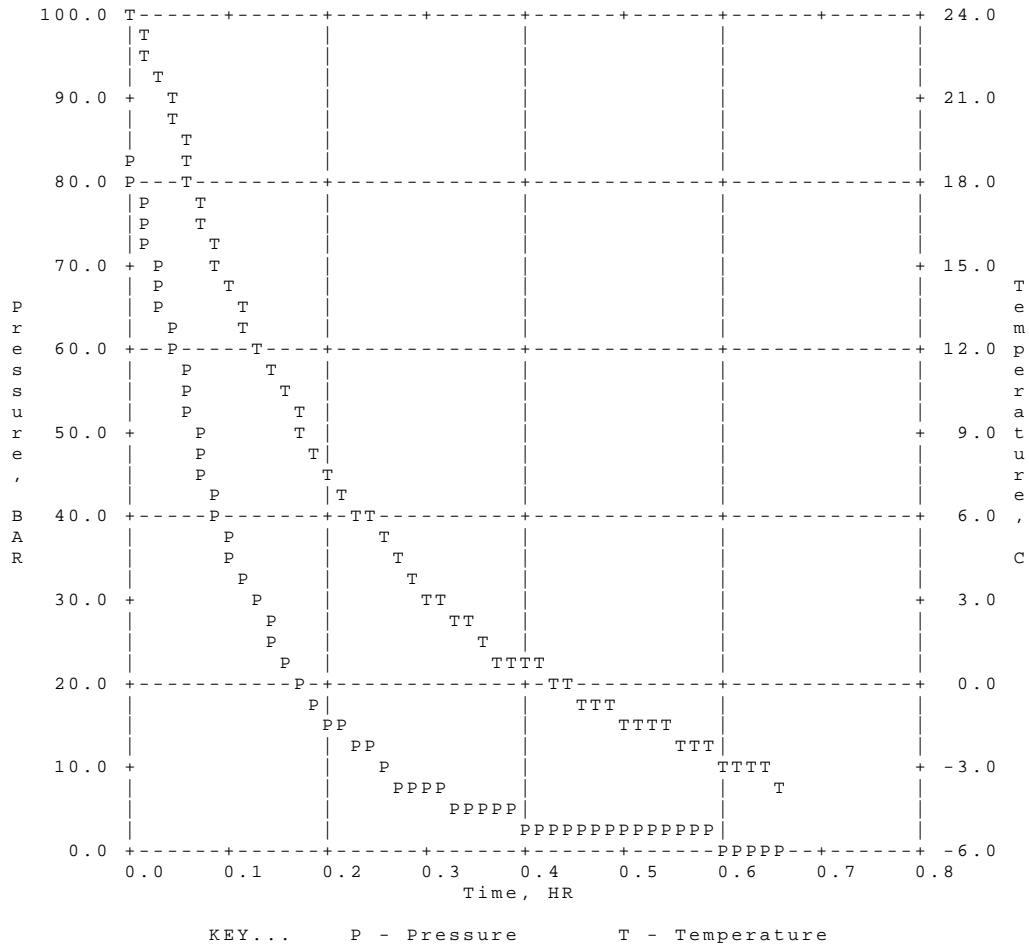
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	24.0	51395.870	661.469
2.5E-02	67.469	22.1	46368.827	664.587
5.0E-02	54.408	19.0	37234.750	670.353
7.5E-02	43.956	16.4	29891.620	673.932
1.0E-01	35.567	14.1	24088.891	676.090
0.125	28.824	12.1	19482.663	676.869
0.150	23.404	10.4	15814.861	676.347
0.175	19.047	8.8	12887.383	674.615
0.200	15.545	7.5	10545.987	671.767
0.225	12.728	6.3	8669.558	667.897
0.250	10.462	5.2	7162.534	663.093
0.275	8.636	4.2	5949.328	657.441
0.300	7.163	3.3	4970.075	651.023
0.325	5.971	2.5	4177.329	643.924
0.350	5.006	1.8	3533.479	636.228
0.375	4.221	1.1	3008.696	628.024
0.400	3.580	5.0E-01	2579.311	619.401
0.425	3.056	-5.7E-02	2226.533	610.452
0.450	2.626	-5.7E-01	1935.430	601.269
0.475	2.271	-1.0	1694.119	591.945
0.500	1.977	-1.5	1493.134	582.567
0.525	1.732	-1.9	1324.917	573.220
0.550	1.527	-2.2	1183.424	563.978
0.575	1.355	-2.6	1063.808	554.910
0.600	1.210	-2.9	962.174	546.072
0.625	1.087	-3.2	875.380	537.514
0.650	0.982	-3.4	800.888	529.272

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>	

### 5.3.2    BDV 0011

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )			(kg)	(kg)
SDV-007	101-D-101	1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	0.02	0.98	39.93	205.17
101-D-101 upstream demister		1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	0.02	0.98	14932.66	1628.00
101-D-101	SDV-0010	100_6(unit 100)	LIQUID	8884.0	587.9	0.0	0.0	1.00	0.00	42.05	0.00
	Total	Quantity								15014.6	1833.2

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
SDV-007	101-D-101	24	24.0	F23S	609.6	80	31.0	547.7	21.6	0.0	15.0	0.07	3.47	3.53
101-D-101 upstream demister												25.40	27.50	52.90
101-D-101	SDV-0010	3	3.5	F48	88.9	40S	5.5	77.9	3.1	0.0	15.0	0.07	0.00	0.07
	Total											25.5	31.0	56.5

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	<b>Rev. : 3 Class: 2</b>

Wetted area calculation:

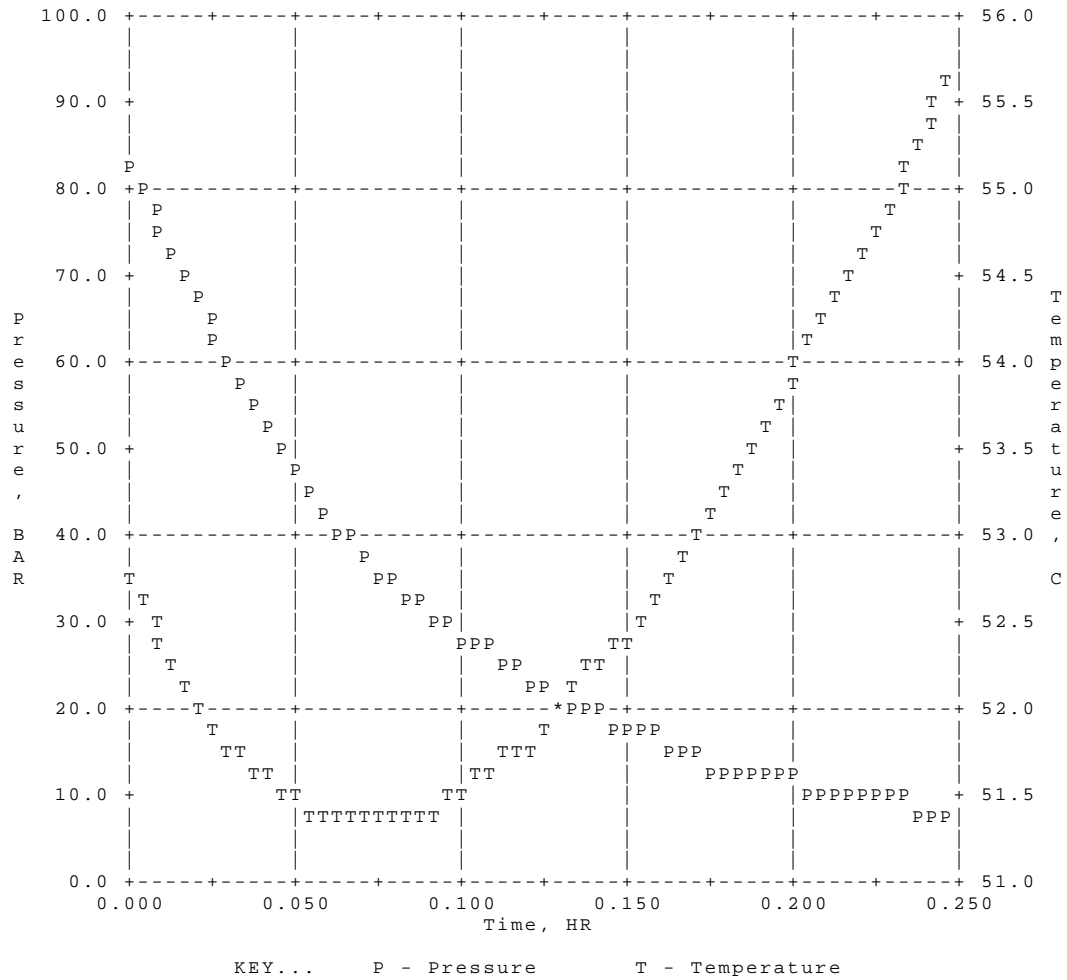
FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
SDV-007	101-D-101	1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	28.73	0.00	0.00	0.00
	101-D-101 upstream demister	1BL_100_6(U-100)	MIXED	8884.0	587.9	453297.0	59.2	65.60	0.00	23.80	23.80
101-D-101	SDV-0010	100_6(unit 100)	LIQUID	8884.0	587.9	0.0	0.0	4.19	0.00	4.19	4.19
	Total	Quantity						98.5	0.0	28.0	28.0



Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	52.7	44712.822	635.269
1.5E-02	69.769	52.1	41065.078	636.568
3.0E-02	58.832	51.7	34449.061	638.774
4.5E-02	49.766	51.5	29053.777	639.588
6.0E-02	42.236	51.3	24633.054	639.093
7.5E-02	35.971	51.3	20995.899	637.377
9.0E-02	30.750	51.4	17992.672	634.527
0.105	26.393	51.6	15504.900	630.631
0.120	22.752	51.8	13437.945	625.783
0.135	19.704	52.1	11715.665	620.078
0.150	17.148	52.4	10276.466	613.617
0.165	15.001	52.8	9070.320	606.505
0.180	13.194	53.3	8056.469	598.848
0.195	11.669	53.7	7201.633	590.755
0.210	10.379	54.2	6478.587	582.334
0.225	9.285	54.8	5865.023	573.689
0.240	8.354	55.3	5342.640	564.919
0.247	7.934	55.6	4993.608	558.131

Pressure and Temperature Profiles



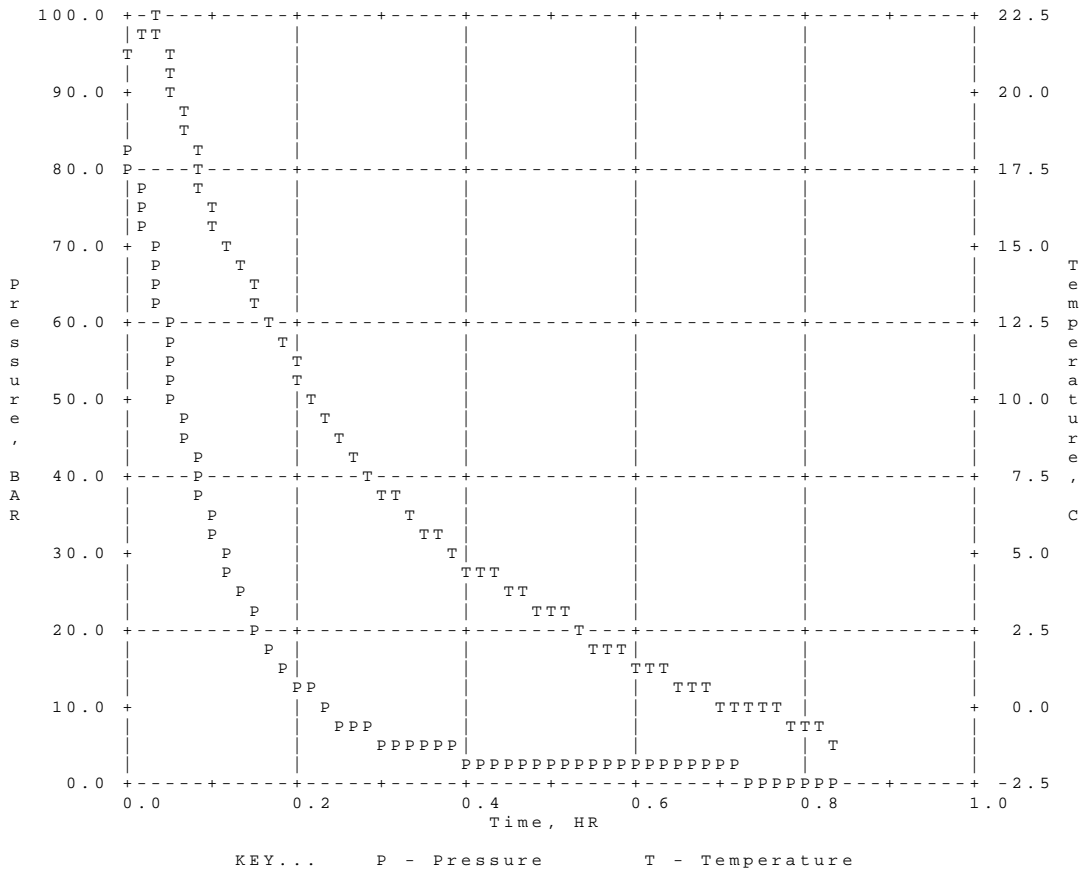
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	



Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	47832.244	593.839
2.5E-02	66.450	22.6	42752.241	598.161
5.0E-02	51.472	20.0	33314.592	605.677
7.5E-02	40.074	17.8	25721.987	608.995
1.0E-01	31.383	15.9	20058.963	609.556
0.125	24.743	14.3	15802.987	607.718
0.150	19.658	12.8	12582.249	603.823
0.175	15.752	11.6	10128.746	598.196
0.200	12.740	10.5	8247.196	591.145
0.225	10.407	9.5	6794.198	582.966
0.250	8.590	8.6	5663.875	573.942
0.275	7.167	7.8	4777.727	564.340
0.300	6.044	7.1	4077.346	554.407
0.325	5.152	6.4	3519.115	544.363
0.350	4.437	5.8	3070.336	534.398
0.375	3.861	5.2	2706.393	524.667
0.400	3.392	4.7	2408.663	515.291
0.425	3.008	4.2	2162.983	506.361
0.450	2.691	3.7	1958.517	497.936
0.475	2.427	3.3	1786.929	490.050
0.500	2.205	2.9	1641.757	482.717
0.525	2.017	2.5	1517.966	475.935
0.550	1.857	2.1	1411.602	469.688
0.575	1.720	1.8	1319.540	463.952
0.600	1.602	1.4	1239.296	458.698
0.625	1.499	1.1	1168.880	453.892
0.650	1.408	8.2E-01	1106.689	449.499
0.675	1.329	5.2E-01	1051.424	445.485
0.700	1.258	2.4E-01	1002.026	441.815
0.725	1.195	-2.5E-02	957.626	438.457
0.750	1.139	-2.8E-01	917.509	435.380
0.775	1.088	-5.4E-01	881.081	432.556
0.800	1.042	-7.8E-01	847.848	429.958
0.812	1.020	-9.0E-01	824.455	428.097
0.838	0.980	-1.1	802.961	426.405

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Spurious depressurization:

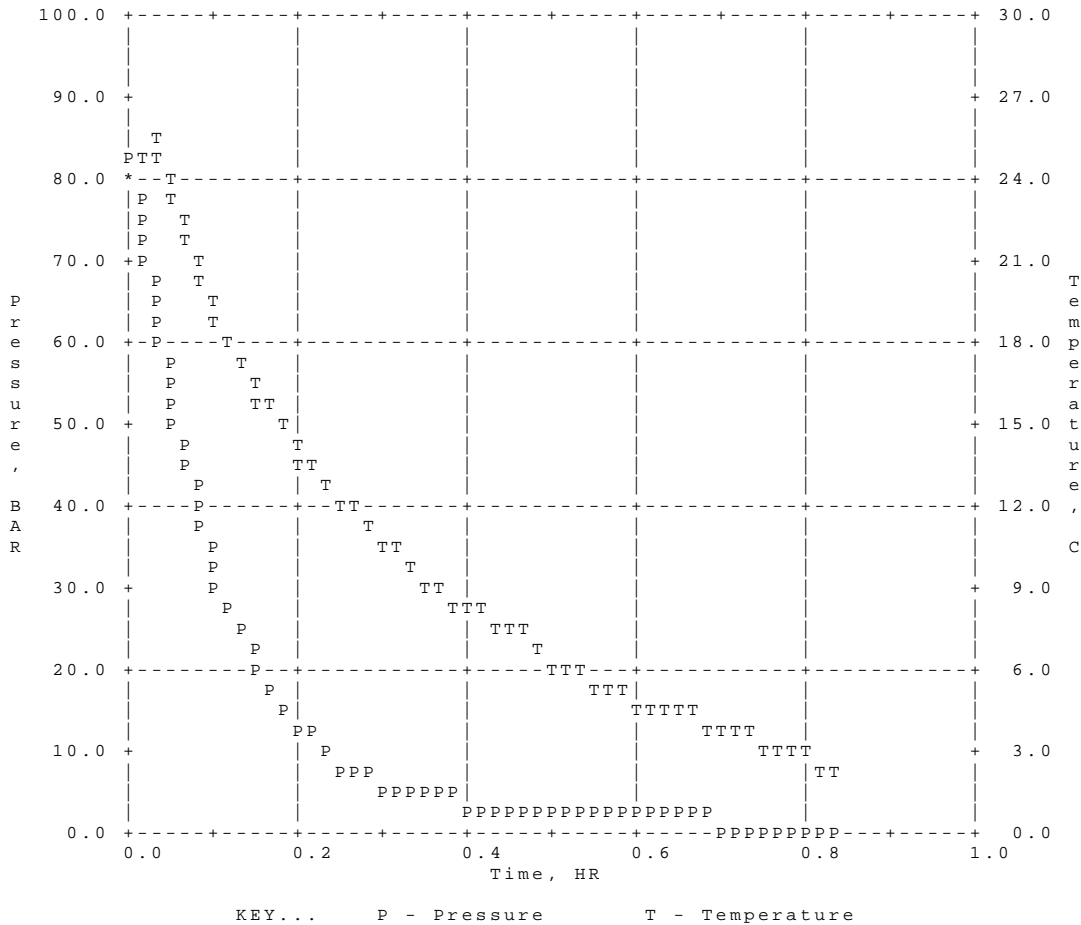
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	24.0	47479.005	598.258
2.5E-02	66.041	25.4	42340.331	602.326
5.0E-02	50.975	23.0	32859.771	609.344
7.5E-02	39.566	20.8	25306.775	612.198
1.0E-01	30.904	19.0	19694.266	612.270
0.125	24.311	17.4	15490.143	609.930
0.150	19.280	16.0	12318.061	605.530
0.175	15.428	14.8	9908.018	599.405
0.200	12.466	13.7	8064.095	591.875
0.225	10.177	12.8	6642.989	583.244
0.250	8.398	11.9	5539.299	573.805
0.275	7.007	11.1	4675.162	563.834
0.300	5.911	10.4	3992.846	553.580
0.325	5.041	9.8	3449.374	543.267
0.350	4.345	9.1	3012.628	533.081
0.375	3.784	8.6	2658.487	523.176
0.400	3.327	8.1	2368.748	513.670
0.425	2.953	7.6	2129.593	504.644
0.450	2.644	7.1	1930.469	496.154
0.475	2.387	6.7	1763.266	488.227
0.500	2.171	6.3	1621.707	480.873
0.525	1.988	5.9	1500.902	474.082
0.550	1.832	5.5	1397.016	467.837
0.575	1.698	5.2	1307.019	462.109
0.600	1.582	4.9	1228.501	456.867
0.625	1.481	4.6	1159.534	452.074
0.650	1.393	4.3	1098.564	447.696
0.675	1.315	4.0	1044.334	443.695
0.700	1.246	3.7	995.815	440.036
0.725	1.184	3.4	952.165	436.688
0.750	1.129	3.2	912.691	433.618
0.775	1.079	2.9	876.818	430.798
0.800	1.033	2.7	844.064	428.203
0.812	1.012	2.5	820.995	426.343
0.838	0.973	2.3	799.783	424.651



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

### 5.3.3    BDV 0036

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )			(kg)	(kg)
MOV-0033	101-E-104	3	VAPOR	0.0	0.0	490551.2	50.9	0.00	1.00	0.00	179.86
	101-E-104 shell side	3V,3L	MIXED	129.9	988.4	490421.4	51.1	0.00	1.00	0.00	296.64
101-E-104	101-D-102	3V,3L	MIXED	129.9	988.4	490421.4	51.1	0.00	1.00	0.97	189.17
	101-D-102	3V,3L	MIXED	129.9	988.4	490421.4	51.1	0.00	1.00	37756.88	2245.27
101-D-102	SDV-0014 (unit 104)	3BL	VAPOR	0.0	0.0	490421.4	50.6	0.00	1.00	0.00	1284.96
101-D-102	SDV-0037	3L	LIQUID	129.9	988.4	0.0	0.0	1.00	0.00	70.70	0.00
	Total	Quantity								37827.6	3530.2

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
MOV-0033	101-E-104	24	24.0	F23S	609.6	80	31.0	547.7	21.6	0.0	15.0	0.00	3.53	3.53
	101-E-104 shell side											0.00	5.80	5.80
101-E-104	101-D-102	24	24.0	F48	609.6	-	24.6	560.4	22.1	0.0	15.0	0.00	3.70	3.70
	101-D-102											38.20	43.90	82.10
101-D-102	SDV-0014 (unit 104)	26	26.0	F23S	660.4	-	30.6	599.2	23.6	0.0	90.0	0.00	25.38	25.38
101-D-102	SDV-0037	3	3.5	F48	88.9	40S	5.5	77.9	3.1	0.0	15.0	0.07	0.00	0.07
	Total											38.2	69.3	107.5

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>



Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
MOV-0033	101-E-104	3	VAPOR	0.0	0.0	490551.2	50.9	28.73	0.00	0.00	0.00
	101-E-104 shell side	3V,3L	MIXED	129.9	988.4	490421.4	51.1	23.60	0.00	0.00	0.00
101-E-104	101-D-102	3V,3L	MIXED	129.9	988.4	490421.4	51.1	28.73	0.00	0.00	0.00
	101-D-102	3V,3L	MIXED	129.9	988.4	490421.4	51.1	106.70	0.00	28.60	28.60
101-D-102	SDV-0014 (unit 104)	3EL	VAPOR	0.0	0.0	490421.4	50.6	186.72	0.00	0.00	0.00
101-D-102	SDV-0037	3L	LIQUID	129.9	988.4	0.0	0.0	4.19	0.00	4.20	4.20
	Total	Quantity						293.4	0.0	28.6	32.8

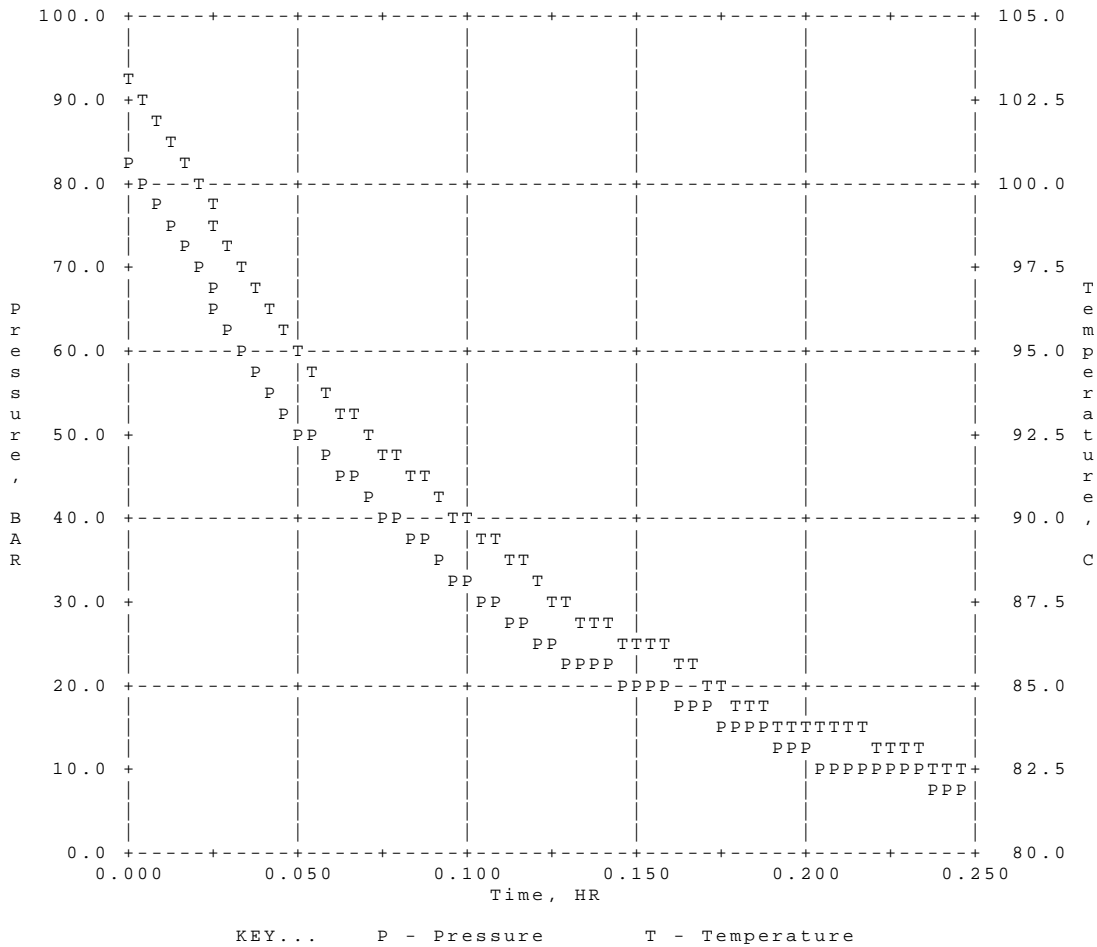
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	103.3	54166.310	1030.330
1.5E-02	71.633	100.5	50496.791	1029.522
3.0E-02	61.904	98.1	43670.370	1028.047
4.5E-02	53.547	95.9	37791.649	1027.071
6.0E-02	46.348	93.9	32719.304	1026.450
7.5E-02	40.135	92.2	28336.674	1026.079
9.0E-02	34.765	90.6	24546.254	1025.883
0.105	30.120	89.3	21265.757	1025.806
0.120	26.099	88.1	18425.227	1025.810
0.135	22.616	87.0	15964.861	1025.866
0.150	19.598	86.1	13833.328	1025.954
0.165	16.984	85.3	11986.430	1026.060
0.180	14.717	84.6	10386.035	1026.173
0.195	12.754	84.0	8999.189	1026.288
0.210	11.051	83.5	7797.381	1026.401
0.225	9.576	83.0	6755.929	1026.507
0.240	8.298	82.6	5853.453	1026.607
0.247	7.725	82.4	5246.683	1026.679

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles

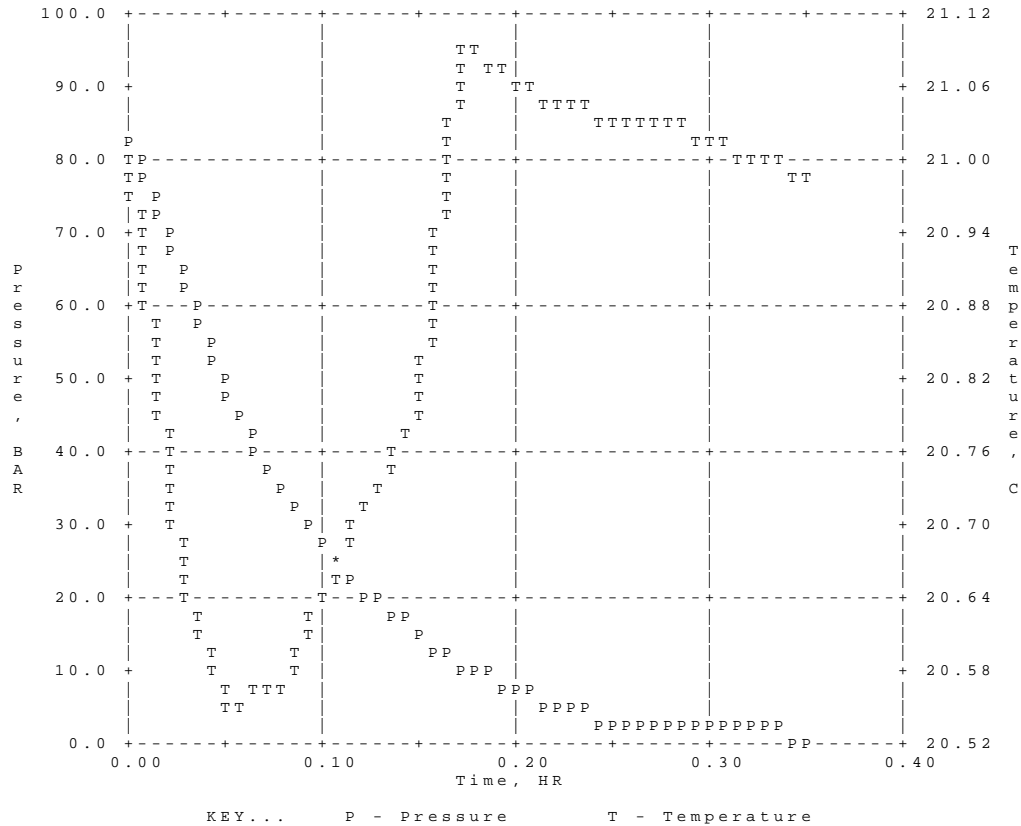


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	65703.296	849.412
2.5E-02	63.507	20.7	57443.294	857.466
5.0E-02	47.973	20.6	42816.275	875.362
7.5E-02	35.764	20.6	31611.171	890.589
1.0E-01	26.358	20.6	23135.170	902.756
0.125	19.248	20.7	16810.051	912.117
0.150	13.958	20.8	12145.871	919.145
0.175	10.078	21.1	8740.791	924.498
0.200	7.241	21.1	6271.329	928.468
0.225	5.191	21.0	4488.888	931.120
0.250	3.716	21.0	3209.408	933.038
0.275	2.659	21.0	2293.563	934.428
0.300	1.903	21.0	1639.344	935.443
0.325	1.363	21.0	1172.697	936.197
0.350	0.978	21.0	840.189	936.778

Pressure and Temperature Profiles

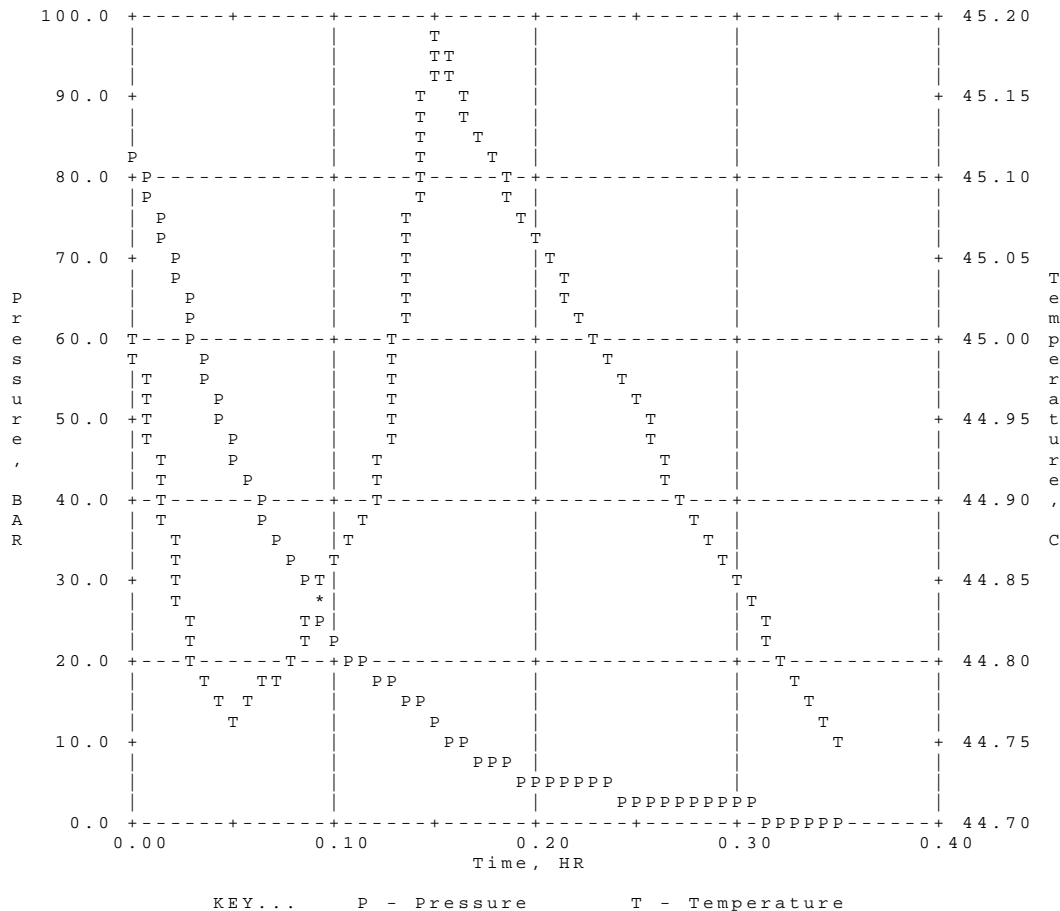




Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	45.0	61266.232	910.929
2.5E-02	61.402	44.8	52935.499	917.117
5.0E-02	44.973	44.8	38416.137	930.947
7.5E-02	32.617	44.8	27679.335	942.433
1.0E-01	23.464	44.9	19817.692	951.396
0.125	16.775	44.9	14119.417	958.140
0.150	11.953	45.2	10026.941	963.266
0.175	8.484	45.1	7105.267	967.044
0.200	6.016	45.1	5028.176	969.522
0.225	4.268	45.0	3559.522	971.309
0.250	3.033	45.0	2523.723	972.613
0.275	2.163	44.9	1794.510	973.596
0.300	1.551	44.9	1281.756	974.381
0.325	1.121	44.8	921.478	975.067
0.350	0.819	44.7	668.427	975.733

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

### 5.3.4    BDV 0038

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )			(kg)	(kg)
MOV-0018	101-C-101	1V	VAPOR	0.0	0.0	510762.1	59.6	0.00	1.00	0.00	210.60
	101-C-101	3,4	MIXED	317549.3	1082.6	490551.2	50.9	0.39	0.61	75782.00	7151.45
101-C-101	MOV-0033	3	VAPOR	0.0	0.0	490551.2	50.9	0.00	1.00	0.00	179.86
101-C-101	101-P-103	42	LIQUID	50080.6	990.8	0.0	0.0	1.00	0.00	1163.47	0.00
101-P-103	101-C-101	44	LIQUID	51773.2	990.4	0.0	0.0	1.00	0.00	512.44	0.00
SDV-0027	101-C-101	2	LIQUID	302679.8	1029.9	0.0	0.0	1.00	0.00	1574.47	0.00
101-C-101	SDV-0026	4	LIQUID	317549.3	1082.6	0.0	0.0	1.00	0.00	1209.79	0.00
	<b>Total</b>	<b>Quantity</b>								<b>80242.2</b>	<b>7541.9</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
MOV-0018	101-C-101	24	24.0	F23S	609.6	80	31.0	547.7	21.6	0.0	15.0	0.00	3.53	3.53
	101-C-101											70.00	140.50	210.50
101-C-101	MOV-0033	24	24.0	F23S	609.6	80	31.0	547.7	21.6	0.0	15.0	0.00	3.53	3.53
101-C-101	101-P-103	6	6.6	F48	168.3	40S	7.1	154.1	6.1	33.0	30.0	1.17	0.00	1.17
101-P-103	101-C-101	4	4.5	F48	114.3	40S	6.0	102.3	4.0	33.0	30.0	0.52	0.00	0.52
SDV-0027	101-C-101	10	10.8	F23S	273.1	80	15.1	242.9	9.6	21.0	12.0	1.53	0.00	1.53
101-C-101	SDV-0026	10	10.8	F48	273.1	-	12.7	247.7	9.8	8.2	15.0	1.12	0.00	1.12
	<b>Total</b>											<b>74.3</b>	<b>147.6</b>	<b>221.9</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
MOV-0018	101-C-101	1V	VAPOR	0.0	0.0	510762.1	59.6	28.73	0.00	0.00	0.00
	101-C-101	3,4	MIXED	317549.3	1082.6	490551.2	50.9	439.40	0.00	27.60	27.60
101-C-101	MOV-0033	3	VAPOR	0.0	0.0	490551.2	50.9	28.73	0.00	0.00	0.00
101-C-101	101-P-103	42	LIQUID	50080.6	990.8	0.0	0.0	33.30	4.23	0.00	4.23
101-P-103	101-C-101	44	LIQUID	51773.2	990.4	0.0	0.0	22.62	2.87	0.00	2.87
SDV-0027	101-C-101	2	LIQUID	302679.8	1029.9	0.0	0.0	28.31	0.00	0.00	0.00
101-C-101	SDV-0026	4	LIQUID	317549.3	1082.6	0.0	0.0	19.90	6.86	12.87	19.73
	<b>Total</b>	<b>Quantity</b>						<b>601.0</b>	<b>14.0</b>	<b>40.5</b>	<b>54.4</b>

Fire case:

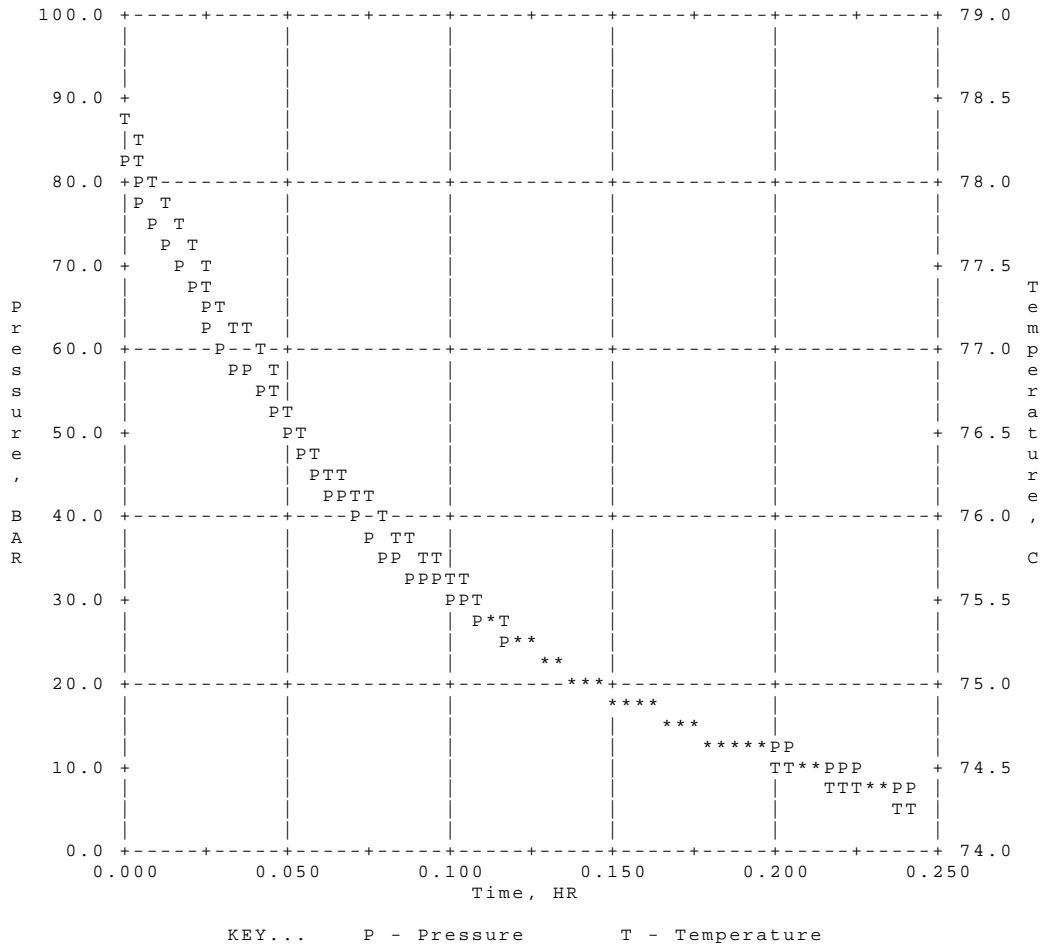
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	78.4	1.033E+05	1688.850
1.0E-02	74.552	78.0	98078.468	1688.718
2.0E-02	67.023	77.6	88147.935	1688.418
3.0E-02	60.298	77.3	79291.705	1688.011
4.0E-02	54.283	77.0	71384.622	1687.379
5.0E-02	48.899	76.7	64318.903	1686.439
6.0E-02	44.075	76.4	58000.859	1685.132
7.0E-02	39.753	76.2	52348.378	1683.419
8.0E-02	35.877	76.0	47289.079	1681.276
9.0E-02	32.402	75.8	42758.954	1678.688
1.0E-01	29.286	75.6	38701.179	1675.650
0.110	26.490	75.4	35065.205	1672.163
0.120	23.983	75.3	31806.004	1668.232
0.130	21.733	75.2	28883.421	1663.866
0.140	19.713	75.0	26261.628	1659.078
0.150	17.901	74.9	23908.643	1653.881
0.160	16.274	74.8	21795.910	1648.294
0.170	14.812	74.7	19897.936	1642.334
0.180	13.499	74.6	18191.956	1636.021
0.190	12.319	74.6	16657.648	1629.378
0.200	11.258	74.5	15276.868	1622.428
0.210	10.304	74.4	14033.419	1615.196
0.220	9.444	74.4	12912.845	1607.707
0.230	8.671	74.3	11902.243	1599.990
0.240	7.973	74.3	10990.097	1592.072



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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Pressure and Temperature Profiles



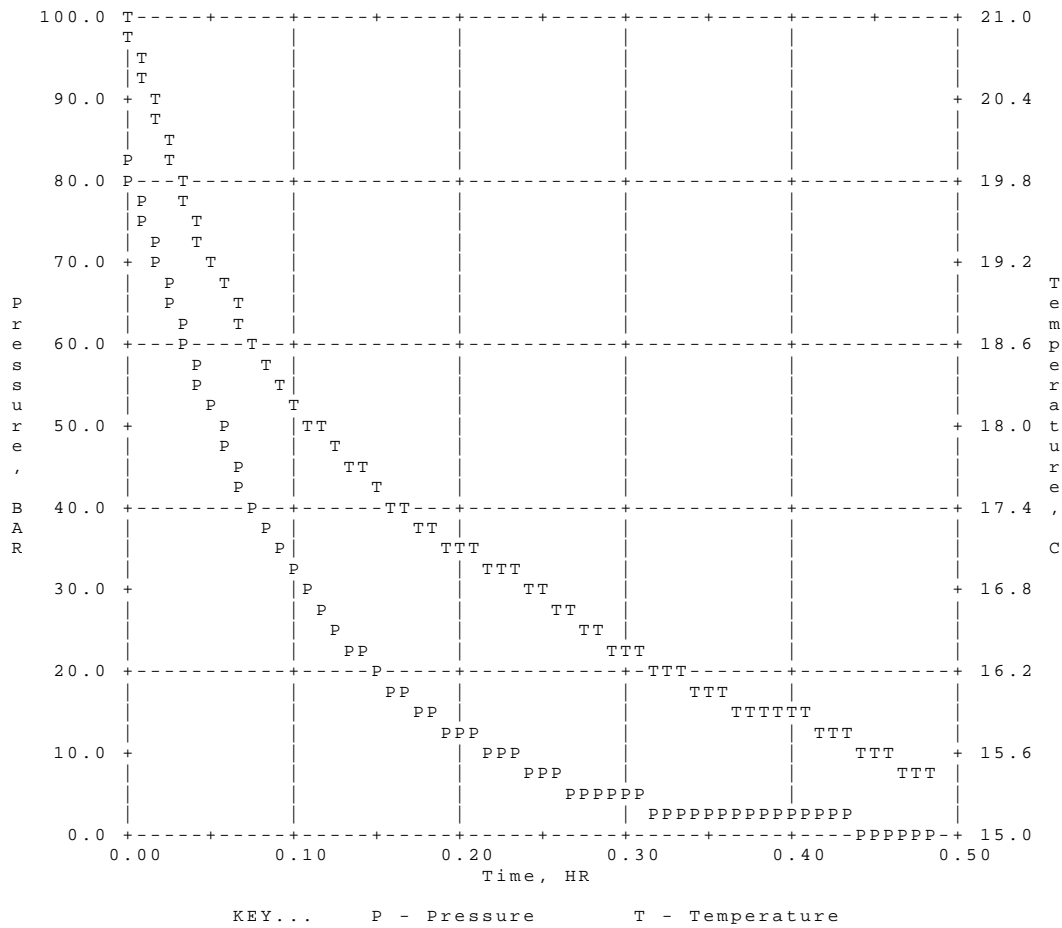
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	1.143E+05	1527.327
2.5E-02	65.623	19.9	1.018E+05	1535.272
5.0E-02	51.766	19.1	79454.489	1553.157
7.5E-02	40.663	18.6	61904.249	1569.604
1.0E-01	31.802	18.2	48114.705	1583.271
0.125	24.782	17.8	37325.426	1593.663
0.150	19.263	17.6	28925.883	1600.712
0.175	14.953	17.3	22417.618	1604.525
0.200	11.608	17.1	17394.808	1605.250
0.225	9.024	16.9	13530.355	1603.007
0.250	7.033	16.7	10563.628	1597.864
0.275	5.503	16.6	8289.131	1589.836
0.300	4.329	16.4	6546.263	1578.908
0.325	3.428	16.3	5210.409	1565.068
0.350	2.736	16.1	4185.429	1548.347
0.375	2.205	16.0	3397.489	1528.856
0.400	1.795	15.8	2790.106	1506.823
0.425	1.478	15.7	2320.206	1482.601
0.450	1.231	15.6	1955.036	1456.668
0.475	1.039	15.5	1669.742	1429.590
0.487	0.958	15.4	1490.912	1408.046

Pressure and Temperature Profiles



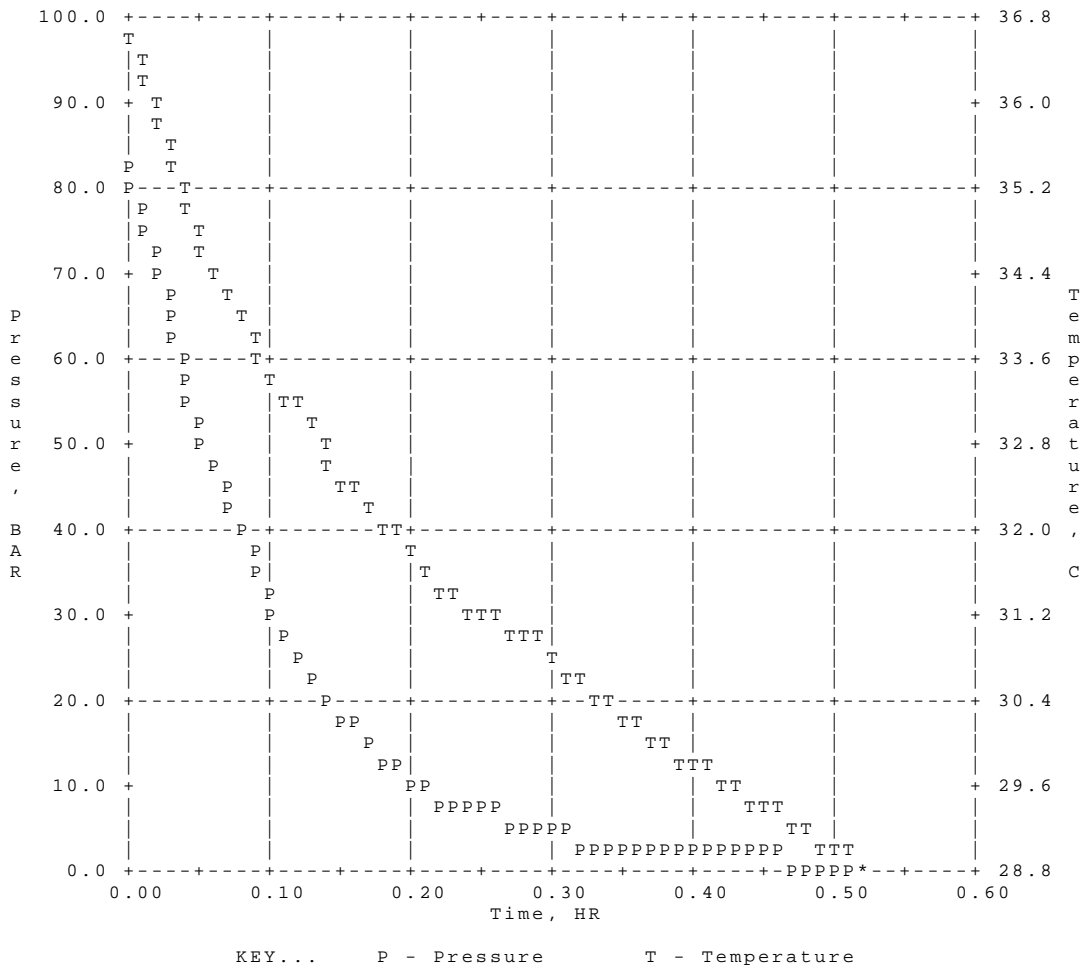
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	36.6	1.097E+05	1590.352
2.5E-02	64.666	35.5	97274.654	1595.836
5.0E-02	50.347	34.6	75191.119	1608.012
7.5E-02	39.121	33.9	58111.676	1618.499
1.0E-01	30.343	33.4	44907.523	1626.108
0.125	23.513	32.9	34725.909	1630.394
0.150	18.226	32.5	26898.673	1631.261
0.175	14.151	32.1	20897.146	1628.758
0.200	11.020	31.8	16303.890	1622.968
0.225	8.619	31.4	12791.761	1613.979
0.250	6.781	31.1	10106.467	1601.876
0.275	5.361	30.9	8045.076	1586.625
0.300	4.284	30.7	6465.494	1568.356
0.325	3.460	30.5	5260.335	1547.574
0.350	2.824	30.3	4332.648	1524.618
0.375	2.332	30.0	3613.774	1499.895
0.400	1.949	29.8	3053.220	1473.907
0.425	1.649	29.6	2613.201	1447.207
0.450	1.412	29.4	2265.333	1420.355
0.475	1.224	29.2	1988.240	1393.879
0.500	1.074	29.1	1765.787	1368.240
0.525	0.953	28.9	1585.759	1343.814

Pressure and Temperature Profiles





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### 5.3.5      BDV 0041

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m <sup>3</sup> )	(kg/hr)	(kg/m <sup>3</sup> )			(kg)	(kg)
SDV-0026	101-D-103	4V,4L	MIXED	317271.0	1082.0	278.2	6.1	1.00	0.00	863.24	0.00
	101-D-103	6,5	MIXED	324444.7	1080.6	268.3	5.8	1.00	0.00	25502.16	22.55
	101-C-103	5	VAPOR	0.0	0.0	268.3	5.8	0.00	1.00	0.00	5.38
101-C-103	SDV-0044	5	VAPOR	0.0	0.0	268.3	5.8	0.00	1.00	0.00	0.41
101-D-103	SDV-0043	6	LIQUID	324444.7	1080.6	0.0	0.0	1.00	0.00	1314.62	0.00
	Total	Quantity								27680.0	28.3

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
SDV-0026	101-D-103	10	10.8	B48	273.1	10 S	6.4	260.4	10.3	0.0	15.0	0.80	0.00	0.80
	101-D-103											23.60	3.90	27.50
	101-C-103											0.00	0.93	0.93
101-C-103	SDV-0044	3	3.5	B03S	88.9	41	5.5	77.9	3.1	15.0	0.0	0.00	0.07	0.07
101-D-103	SDV-0043	12	12.8	B48	323.9	10 S	6.4	311.2	12.3	1.0	15.0	1.22	0.00	1.22
	Total											25.6	4.9	30.5

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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Wetted area calculation:

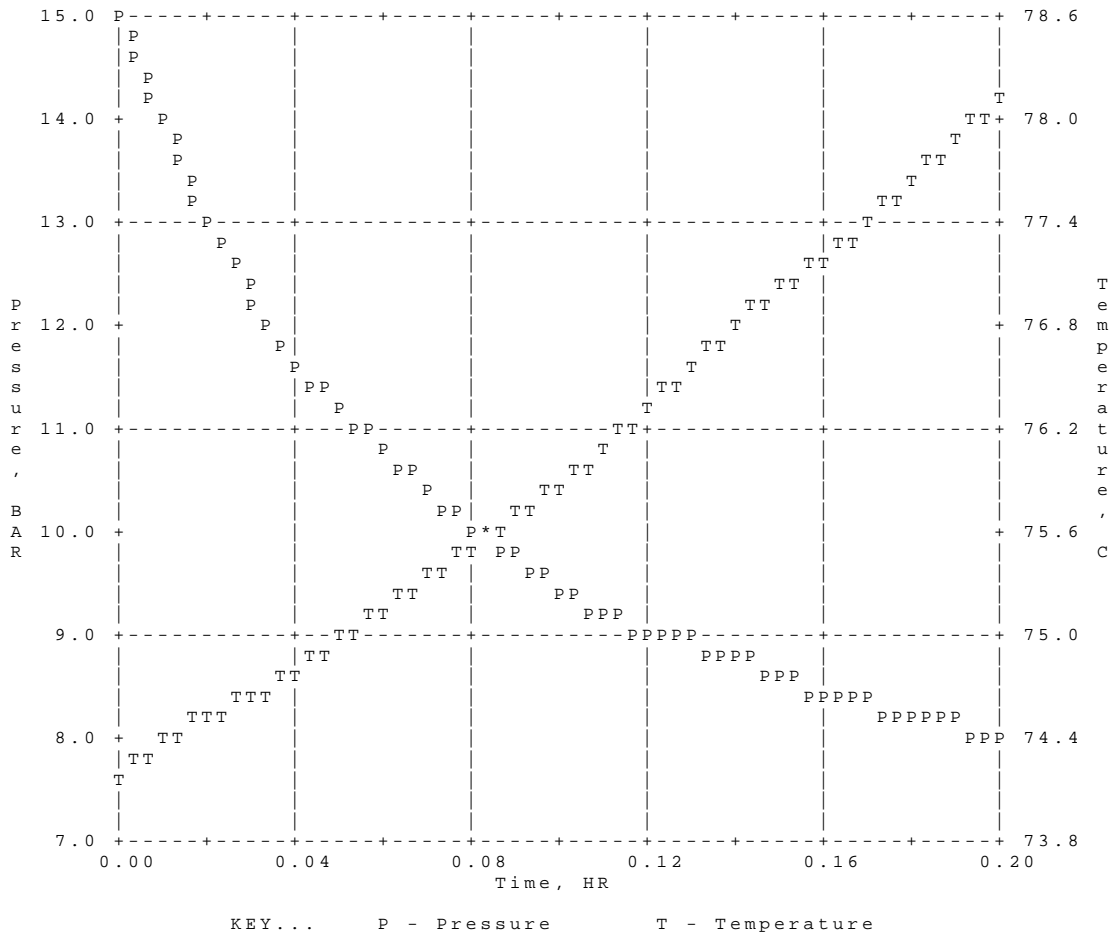
FROM	TO	STREAM TAG	PHASE	LIQUID RATE (kg/hr)	LIQUID DENSITY (kg/m3)	VAPOR RATE (kg/hr)	VAPOR DENSITY (kg/m3)	TOTAL AREA (m <sup>2</sup> )	VERT. WET AREA (m <sup>2</sup> )	HORIZ. WET AREA (m <sup>2</sup> )	TOTAL WET AREA (m <sup>2</sup> )
SDV-0026	101-D-103	4V,4L	MIXED	317271.0	1082.0	278.2	6.1	12.87	0.00	12.87	12.87
	101-D-103	6,5	MIXED	324444.7	1080.6	268.3	5.8	38.90	0.00	22.70	22.70
	101-C-103	5	VAPOR	0.0	0.0	268.3	5.8	7.70	0.00	0.00	0.00
101-C-103	SDV-0044	5	VAPOR	0.0	0.0	268.3	5.8	4.19	0.00	0.00	0.00
101-D-103	SDV-0043	6	LIQUID	324444.7	1080.6	0.0	0.0	16.28	1.02	15.26	16.28
	<b>Total</b>	<b>Quantity</b>						79.9	1.0	50.8	51.8

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	15.000	74.2	2687.457	142.886
2.0E-02	13.028	74.5	2539.431	141.273
4.0E-02	11.680	74.8	2286.853	138.295
6.0E-02	10.723	75.1	2106.062	136.157
8.0E-02	10.016	75.5	1971.325	134.658
1.0E-01	9.477	75.9	1867.109	133.633
0.120	9.051	76.3	1783.681	132.957
0.140	8.704	76.7	1714.760	132.533
0.160	8.413	77.2	1656.187	132.294
0.180	8.163	77.7	1605.158	132.187
0.200	7.943	78.2	1559.742	132.177

Pressure and Temperature Profiles



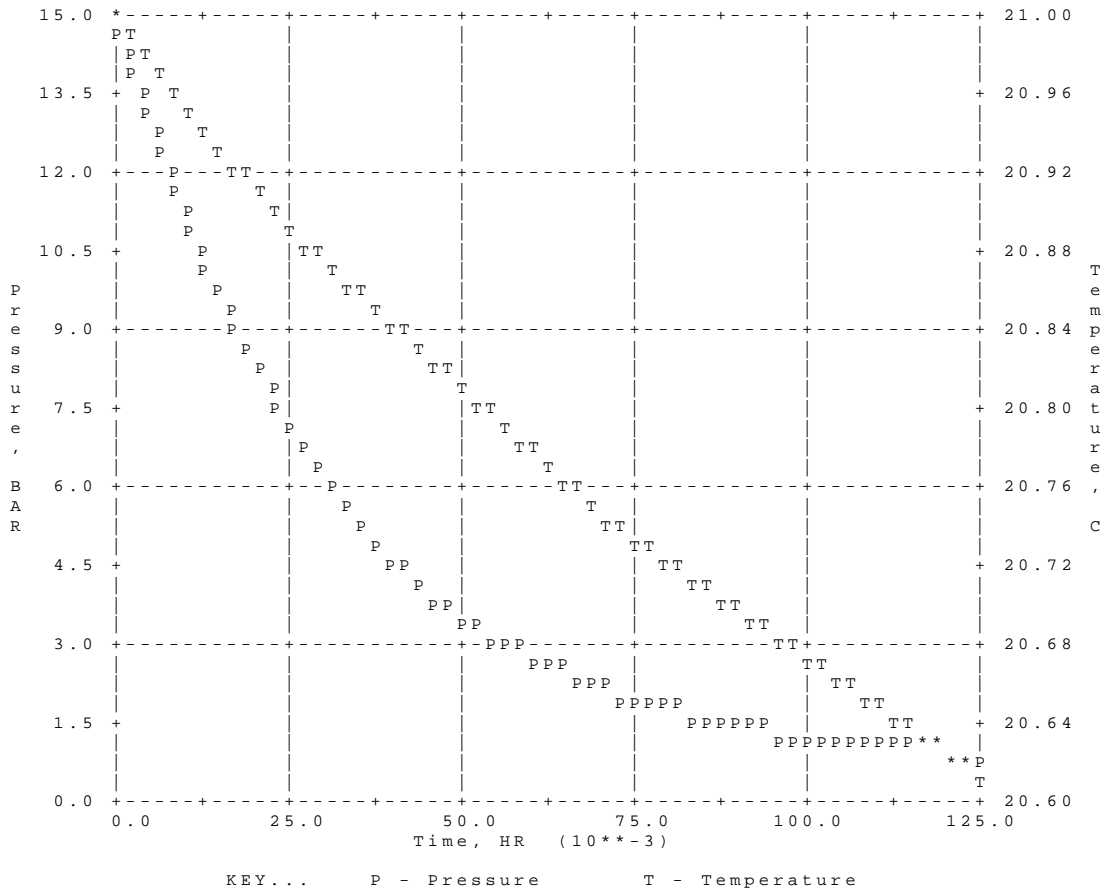


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	15.000	21.0	2111.704	181.844
1.3E-02	10.188	20.9	1777.656	181.366
2.5E-02	7.021	20.9	1225.189	179.791
3.7E-02	4.933	20.8	863.166	177.268
5.0E-02	3.549	20.8	624.399	173.865
6.3E-02	2.623	20.8	465.526	169.704
7.5E-02	1.998	20.7	358.596	164.978
8.7E-02	1.570	20.7	285.615	159.943
1.0E-01	1.273	20.7	235.008	154.868
0.113	1.063	20.6	199.315	149.997
0.125	0.912	20.6	173.708	145.507

Pressure and Temperature Profiles



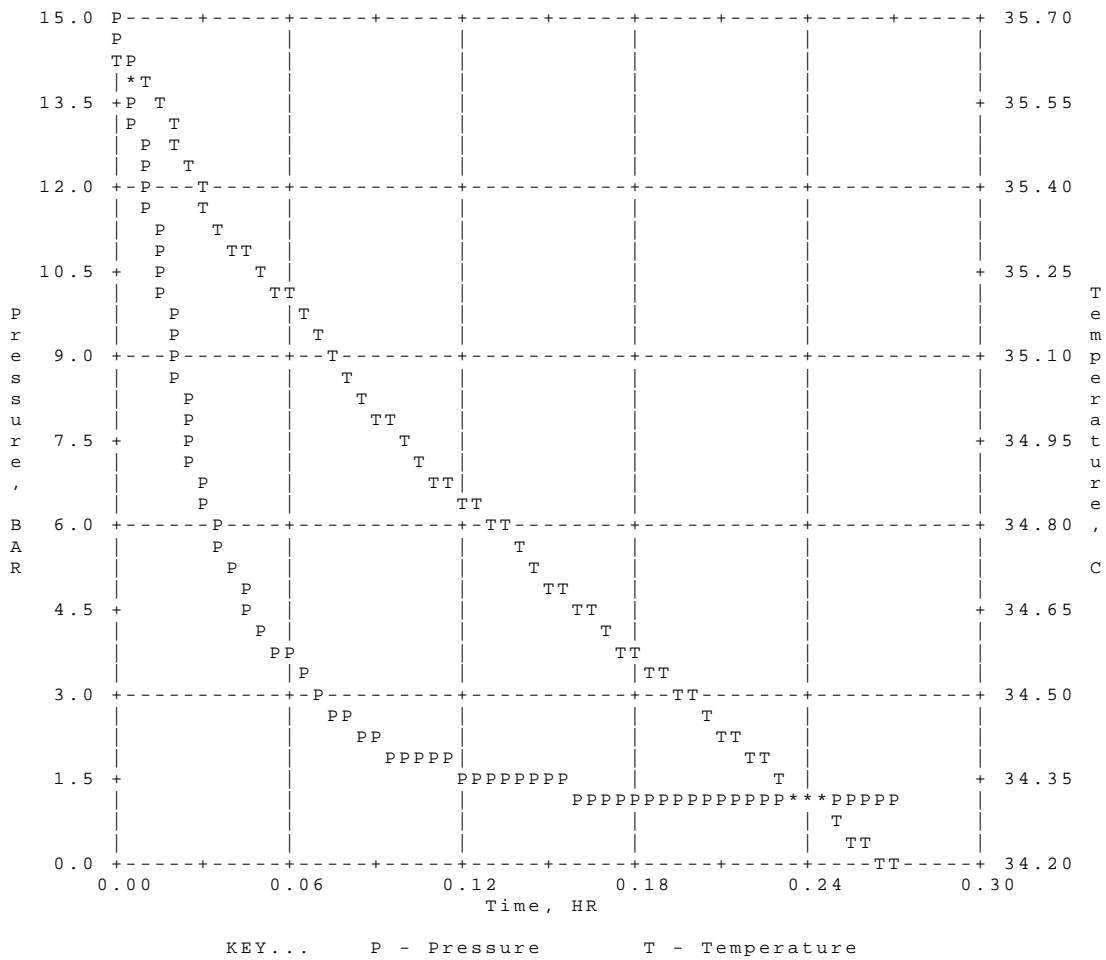
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	15.000	35.6	2120.884	181.057
1.3E-02	10.527	35.5	1817.045	179.820
2.5E-02	7.577	35.4	1313.334	176.437
3.7E-02	5.612	35.3	980.376	172.197
5.0E-02	4.288	35.3	757.153	167.360
6.3E-02	3.381	35.2	605.030	162.227
7.5E-02	2.749	35.1	499.479	157.091
8.7E-02	2.302	35.0	424.859	152.198
1.0E-01	1.981	35.0	371.117	147.721
0.113	1.745	34.9	331.716	143.753
0.125	1.570	34.8	302.344	140.326
0.138	1.438	34.8	280.110	137.423
0.150	1.337	34.7	263.036	135.003
0.163	1.259	34.6	249.751	133.008
0.175	1.197	34.6	239.282	131.379
0.188	1.149	34.5	230.931	130.059
0.200	1.110	34.5	224.185	128.995
0.212	1.079	34.4	218.667	128.141
0.225	1.053	34.4	214.096	127.458
0.237	1.032	34.3	210.259	126.912
0.244	1.022	34.3	207.695	126.562
0.256	1.005	34.2	205.491	126.286
0.269	0.991	34.2	202.869	125.980

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

#### 5.4 UNIT 103

##### 5.4.1 BDV 0038

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUMN FRAC.	VAPOR VOLUMN FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
103-E-101A/B	103-D-101	12	Mixed	206599	684.306	24997	26.004	0.2391	0.7609	187	23
103-E-101A/B	103-D-101	12	Mixed	206599	684.306	24997	26.004	0.2391	0.7609	143	17
103-P-101A/B	103-D-101	Miniflow(S17)	Liquid	192194	670.042	0		1		121	0
103-D-101	103-P-101A/B	13	Liquid	192194	670.042	0		1		1210	0
103-D-101	103-D-103	28	Vapor	0		25272	25.496	0	1	0	26
103-D-101	103-F-101 A	S15	Water	14129.622	988.07	0		1	0	369	0
100-D-101/2	103-E-101A/B	11	Mixed	573	723.32	33.9	28.134	0.398	0.602	146	9
100-X-101	103-E-101A/B	10	Mixed	215802	708.834	15188	27.676	0.3567	0.6433	1215	86
UNIT 104	103-D-101	30	Mixed	721	667.489	38.9	26.112	0.4205	0.5795	27	1
143-P-102	103-D-101	12	Mixed	206599	684.306	24997	26.004	0.2391	0.7609	47	6
103-P-108	103-D-101	21	Liquid	190241	726.156	0		1	0	367	0
103-E-101 A		12	Mixed	206599	684.306	24997	26.004	0.2391	0.7609	248	30
103-E-101 B		12	Mixed	206599	684.306	24997	26.004	0.2391	0.7609	248	30
103-D-101		13 & 28			670.42		25.496			53634	1458
	TOTAL	QUANTITY								57962	1685

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
103-E-101A/B	103-D-101	16	16.00	D03S	406.4	40	12.7	381	15.000	0	10	0.27	0.87	1.14
103-E-101A/B	103-D-101	14	14.00	D03S	355.6	40	11.13	333.34	13.124	0	10	0.21	0.66	0.87
103-P-101A/B	103-D-101	4	4.50	D03S	114.3	40	6.02	102.26	4.026	0	22	0.18	0.00	0.18
103-D-101	103-P-101A/B	12	12.75	D03S	323.9	40	10.31	303.23	11.938	0	25	1.81	0.00	1.81
103-D-101	103-D-103	10	10.75	D03S	273.1	40	9.27	254.51	10.020	0	20	0.00	1.02	1.02
103-D-101	103-F-101 A	6	6.63	D03S	168.4	40	7.11	154.18	6.070	0	20	0.37	0.00	0.37
100-D-101/2	103-E-101A/B	4	4.50	G03S	114.3	120	11.13	92.04	3.624	16	60	0.20	0.30	0.51
100-X-101	103-E-101A/B	14	14.00	G03S	355.6	120	27.79	300.02	11.812	8	60	1.71	3.09	4.81
UNIT 104	103-D-101	2	2.37	F03S	60.2	160	8.74	42.718	1.682	8	60	0.04	0.06	0.10
143-P-102	103-D-101	3	3.50	F03S	88.9	80	7.62	73.66	2.900	8	60	0.07	0.22	0.29
103-P-108	103-D-101	6	6.63	D03S	168.4	80	10.97	146.46	5.766	0	30	0.51	0.00	0.51
103-E-101 A												0.36	1.15	1.52
103-E-101 B												0.36	1.15	1.52
103-D-101												80.00	57.20	
	TOTAL											86.10	65.73	151.83

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		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
103-E-101A/B	103-D-101	12	Mixed	206599	684.306	24997	26.004	11.969	0.000	4.322	4.322
103-E-101A/B	103-D-101	12	Mixed	206599	684.306	24997	26.004	10.472	0.000	3.864	3.864
103-P-101A/B	103-D-101	Miniflow	Liquid	192194	670.042	0		6.425	0.000	6.326	6.326
103-D-101	103-P-101A/B	13	Liquid	192194	670.042	0		19.049	0.000	18.754	18.754
103-D-101	103-D-103	28	Vapor	0		25272	25.496	15.991	0.000	0.064	0.064
103-D-101	103-F-101 A	S15	Water	14129.622	988.07	0		3.872	0.000	3.816	3.816
UNIT 104	103-D-101	30	Mixed	721	667.489	38.9	26.112	2.690	0.000	0.982	0.982
143-P-102	103-D-101	12	Mixed	721	667.489	24997	26.112	4.628	0.000	1.686	1.686
103-P-108	103-D-101	21	Liquid	190241	726.156	0	0	9.196	0.000	9.059	9.059
103-E-101 A		12	Mixed	206599	684.306	24997	26.004	5.100			5.100
103-E-101 B		12	Mixed	206599	684.306	24997	26.004	5.100			5.100
103-D-101		13 & 28			670.42		25.496	167.800			91.600
	TOTAL	QUANTITY						262.293		48.873	150.673

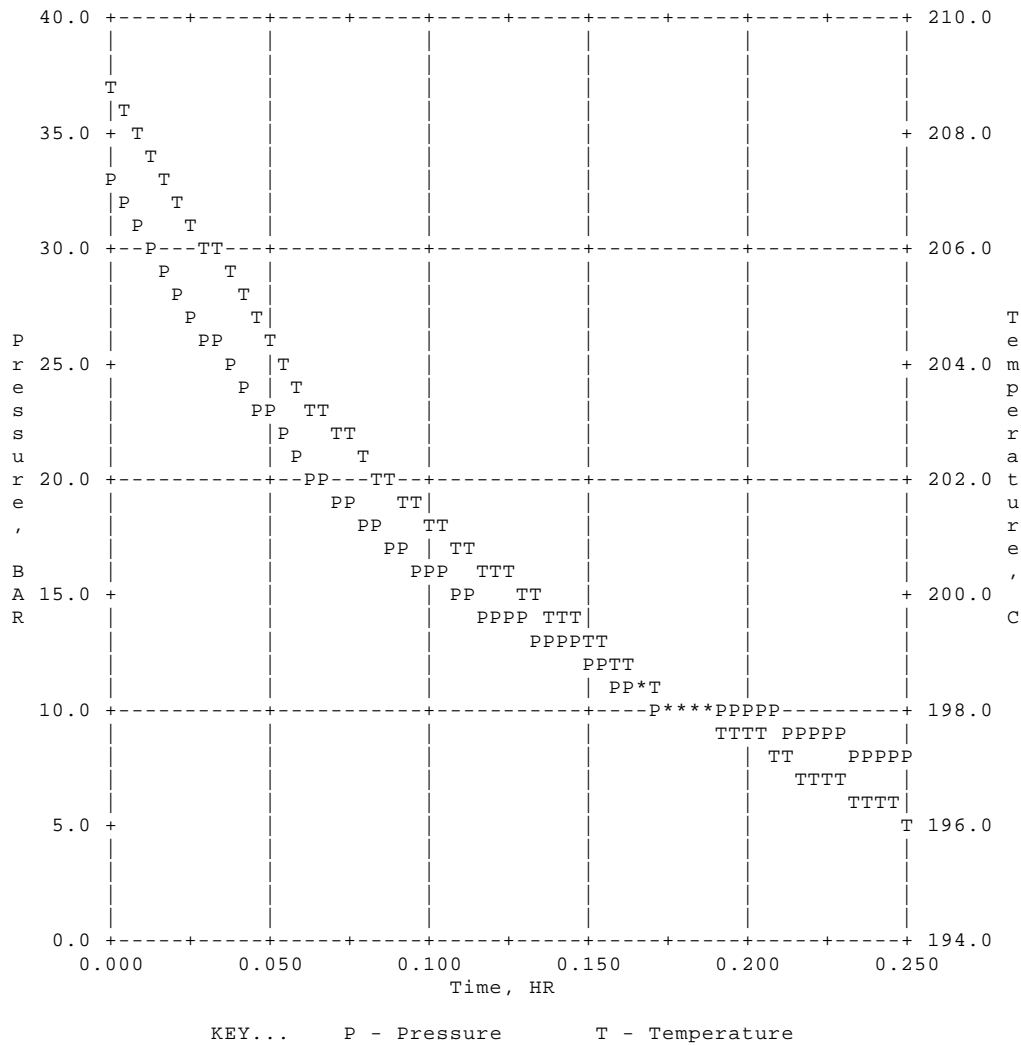
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME	PRES	TEMP	---- VENT RATE ----	
HR	BAR	C	KG/HR	M3/HR
0.000	33.000	208.9	73072.177	1806.433
2.0E-02	27.858	206.8	68174.847	1785.348
4.0E-02	23.794	205.1	59361.281	1740.265
6.0E-02	20.553	203.6	52295.787	1696.004
8.0E-02	17.943	202.3	46568.120	1653.300
1.0E-01	15.823	201.2	41875.933	1612.660
0.120	14.086	200.3	37993.596	1574.401
0.140	12.650	199.4	34750.978	1538.692
0.160	11.453	198.7	32018.487	1505.587
0.180	10.449	198.0	29696.434	1475.063
0.200	9.598	197.4	27707.401	1447.034
0.220	8.873	196.9	25990.767	1421.380
0.240	8.251	196.4	24498.665	1397.956
0.250	7.966	196.2	23482.455	1381.218

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		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles

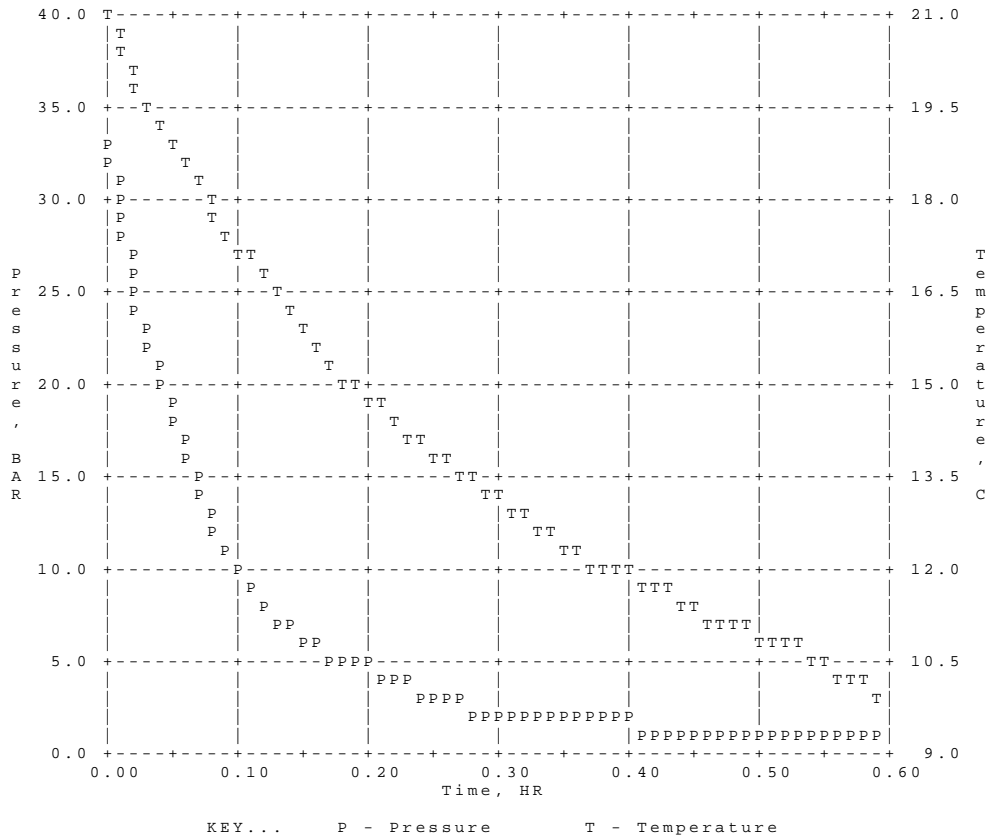


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.000	21.0	62023.538	2128.224
3.1E-02	21.978	19.5	51866.401	2119.972
5.7E-02	15.905	18.5	36185.203	2093.826
8.6E-02	11.456	17.5	26626.439	2055.215
0.116	8.384	16.7	19794.060	2004.667
0.147	6.241	15.8	15027.636	1946.374
0.181	4.742	15.1	11660.572	1883.681
0.216	3.684	14.4	9258.484	1820.145
0.254	2.931	13.8	7522.648	1758.879
0.293	2.388	13.2	6249.891	1702.266
0.335	1.990	12.6	5301.482	1651.782
0.378	1.694	12.1	4582.261	1608.020
0.423	1.469	11.6	4026.579	1570.850
0.470	1.294	11.1	3588.872	1539.666
0.518	1.156	10.7	3237.340	1513.617
0.567	1.044	10.2	2949.657	1491.788
0.592	0.995	10.0	2760.916	1476.907

Pressure and Temperature Profiles

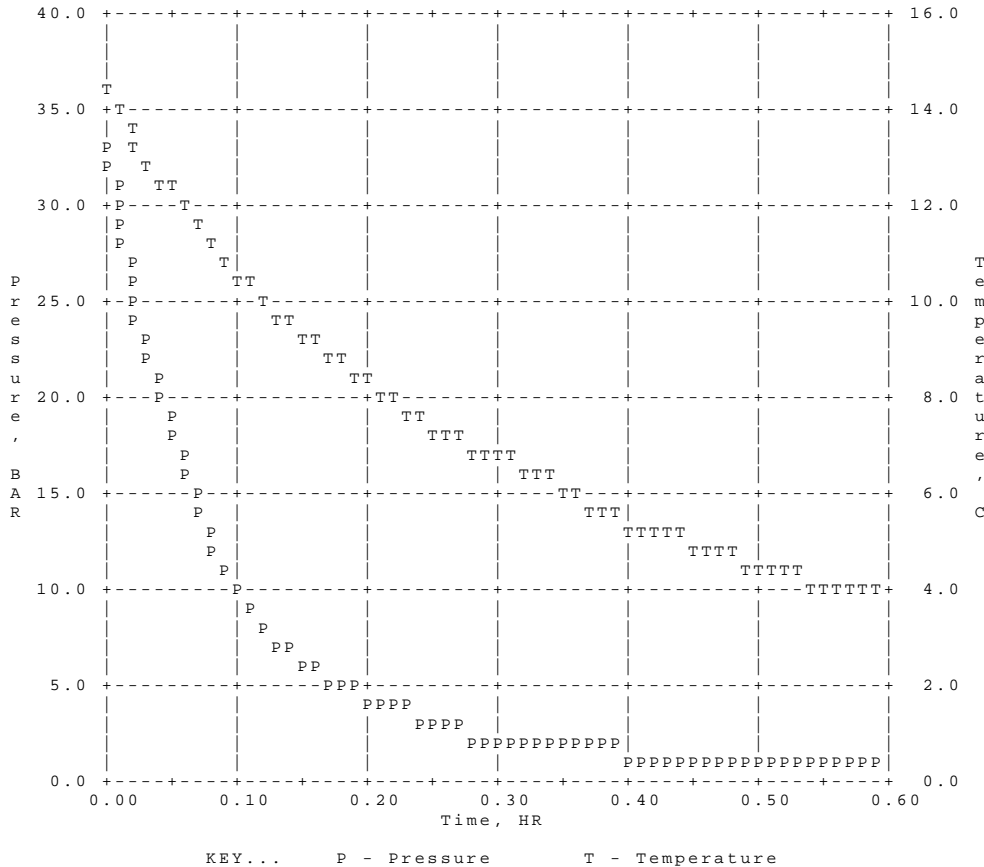


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.000	14.4	62226.845	2121.271
3.1E-02	21.993	12.9	51993.968	2115.353
5.7E-02	15.921	11.9	36201.549	2094.616
8.6E-02	11.459	11.0	26575.373	2060.561
0.115	8.371	10.1	19690.162	2014.173
0.147	6.215	9.4	14888.988	1959.246
0.180	4.705	8.7	11500.945	1898.935
0.215	3.641	8.0	9088.339	1836.726
0.252	2.884	7.4	7349.362	1775.815
0.290	2.339	6.8	6078.437	1718.797
0.331	1.942	6.3	5135.056	1667.425
0.374	1.646	5.8	4422.787	1622.564
0.419	1.423	5.3	3875.087	1584.303
0.465	1.251	4.9	3445.765	1552.177
0.512	1.115	4.5	3102.583	1525.403
0.561	1.006	4.1	2822.924	1503.079
0.586	0.958	3.9	2639.958	1487.928

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

#### 5.4.2      **BDV 0066 / BDV 0101**

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUMN FRAC.	VAPOR VOLUMN FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
103-C-101	103-E-104	16	Liquid	172633	585.703	0	0	1	0	1374	0
103-D-107	103-C-101	23	Liquid	304	639.391	0	0	1	0	61	0
FV-0066	103-C-101	15	Mixed	184976	678.619	11274	12.364	0.23	0.77	347	21
103-C-101	103-E-103	S16	Liquid	231229	588.019	0	0	1	0	1799	0
103-C-101	103-A-104	22	Vapor	0		23922	14.053	0	1	0	30
103-A-104	103-D-107	S94	Mixed	416	688.376	23506	13.417	0.001	0.999	0	9
103-D-107	103-D-102	24	Vapor	0		23533	13.413	0	1	0	29
103-C-101	103-E-104	S 42	Liquid	237876	603.297	0		1	0	2308	0
103-E-104	103-C-101	S 41	Mixed	206586	605.398	31290	21.746	0.192	0.808	231	35
103-D-103	103-C-101	S36	Liquid	3971	528.957	0	0	1	0	45	0
103-D-110	103-C-101	S4	Liquid	3971	528.957	0	0	1	0	222	0
	103-D-107	23/24			639.391		13.413			2219	35
	103-E-103				585.703		13.413			674	139
	103-E-104				603.297		13.413			320	64
	103-A-104				639.391		13.413			0	3
	103-C-101	16/22			585.703		14.053			19797	1618
	<b>TOTAL</b>	<b>QUANTITY</b>								<b>29395</b>	<b>1982</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
103-C-101	103-E-104	14	14.00	B01	355.6	10	6.35	342.9	13.500	5.4	20	2.35	0.00	2.35
103-D-107	103-C-101	2	2.37	B03S	60.2	80	5.54	49.118	1.934	30	20	0.09	0.00	0.09
FV-0066	103-C-101	12	12.75	B03S	323.9	30	8.38	307.09	12.090	10	20	0.51	1.71	2.22
103-C-101	103-E-103	18	18.00	B03S	457.2	20	7.92	441.36	17.376	0	20	3.06	0.00	3.06
103-C-101	103-A-104	10	10.75	B03S	273.1	20	6.35	260.35	10.250	0	40	0.00	2.13	2.13
103-A-104	103-D-107	8	8.63	B48	219.2	10S	3.76	211.68	8.334	0	20	0.00	0.70	0.70
103-D-107	103-D-102	10	10.75	B03S	273.1	20	6.35	260.35	10.250	0	40	0.00	2.13	2.13
103-C-101	103-E-104	18	18.00	B03S	457.2	20	7.92	441.36	17.376	10	15	3.82	0.00	3.82
103-E-104	103-C-101	18	18.00	B03S	457.2	20	7.92	441.36	17.376	8	5	0.38	1.61	1.99
103-D-103	103-C-101	2	2.37	D03S	60.2	80	5.54	49.118	1.934	20	25	0.09	0.00	0.09
103-D-110	103-C-101	4	4.5	D03S	114.3	40	6.02	102.26	4.026	18	33	0.42	0.00	0.42
	103-D-107											3.47	2.61	
	103-E-103											1.15	10.38	
	103-E-104											0.53	4.74	
	103-A-104											0.00	0.20	
	103-C-101											33.80	88.90	
	TOTAL											49.67	115.11	164.78

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
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Wetted area calculation:

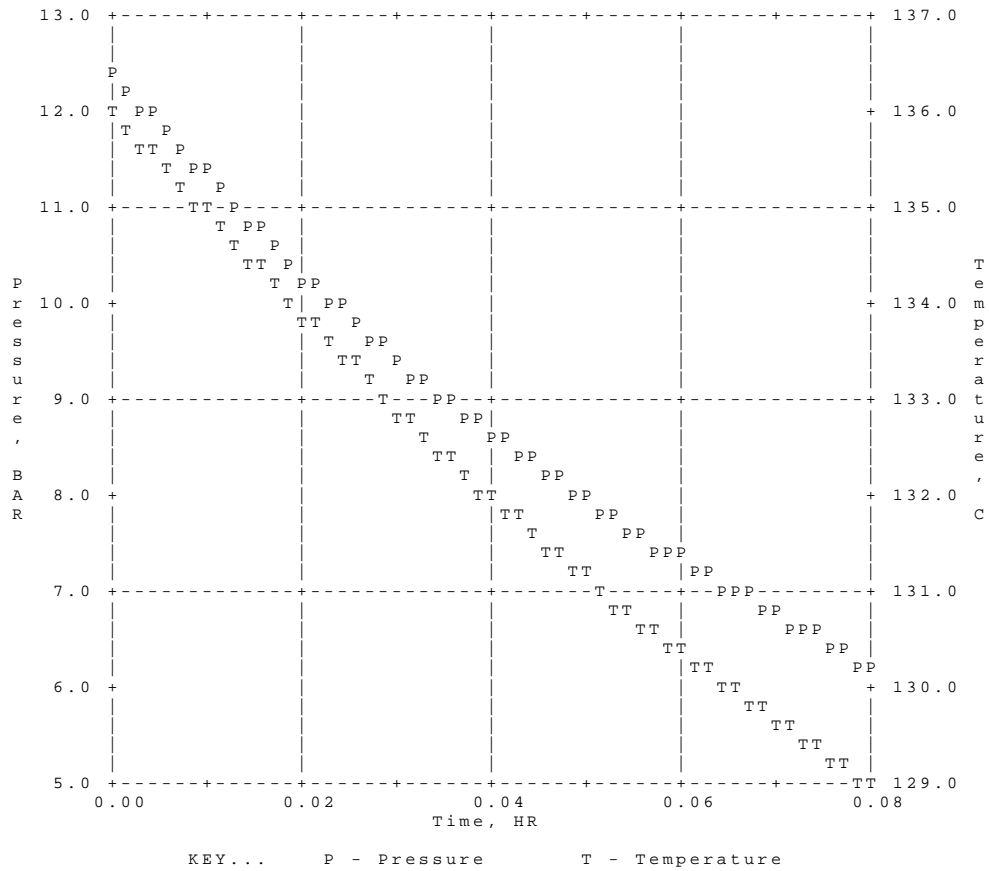
FROM	TO	STREAM TAG (*)	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
103-C-101	103-E-104	16	Liquid	172633	585.703	0	0	21.55	0.00	21.55	21.55
103-D-107	103-C-101	23	Liquid	304	639.391	0	0	3.04	0.00	3.04	3.04
FV-0066	103-C-101	15	Mixed	184976	678.619	11274	12.364	19.30	0.00	6.97	6.97
103-C-101	103-E-103	S16	Liquid	231229	588.019	0	0	27.73	0.00	27.73	27.73
103-D-103	103-C-101	S36	Liquid	3971	528.957	0	0	3.04	0.00	3.04	3.04
103-D-110	103-C-101	S4	Liquid	3971	528.957	0	0	12.85	0.00	12.85	12.85
	103-D-107	23/24			639.391		13.413	11.60			11.60
	103-C-101	16/22			585.703		14.053	51.10			51.10
	TOTAL	QUANTITY						150.21		75.18	137.88



Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	--- VENT RATE ---	
			KG/HR	M3/HR
0.000	12.500	136.0	72084.090	3387.779
1.8E-02	10.421	134.0	66670.145	3358.332
3.7E-02	8.762	132.2	56861.225	3295.477
5.9E-02	7.331	130.5	48616.896	3233.293
8.0E-02	6.229	129.0	41748.441	3172.526

Pressure and Temperature Profiles



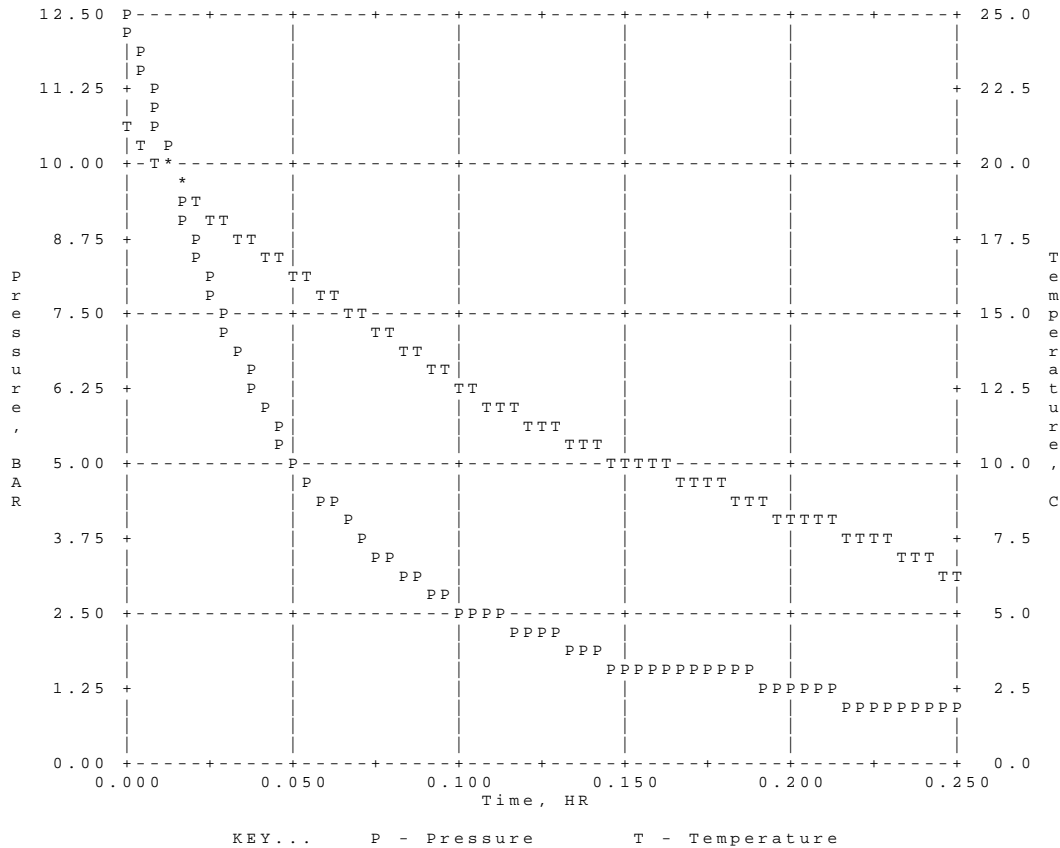
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3 Class: 2</b>

Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.500	21.0	55633.232	4389.553
2.5E-02	7.683	18.2	45683.578	4315.618
5.0E-02	5.064	16.0	30209.158	4121.807
7.5E-02	3.561	14.2	21450.416	3927.749
1.0E-01	2.651	12.6	16182.117	3750.142
0.125	2.072	11.3	12828.610	3596.590
0.150	1.685	10.2	10581.648	3468.549
0.175	1.416	9.1	9005.668	3364.068
0.200	1.221	8.2	7854.609	3279.757
0.225	1.075	7.3	6983.302	3211.950
0.250	0.962	6.5	6302.721	3157.276

Pressure and Temperature Profiles

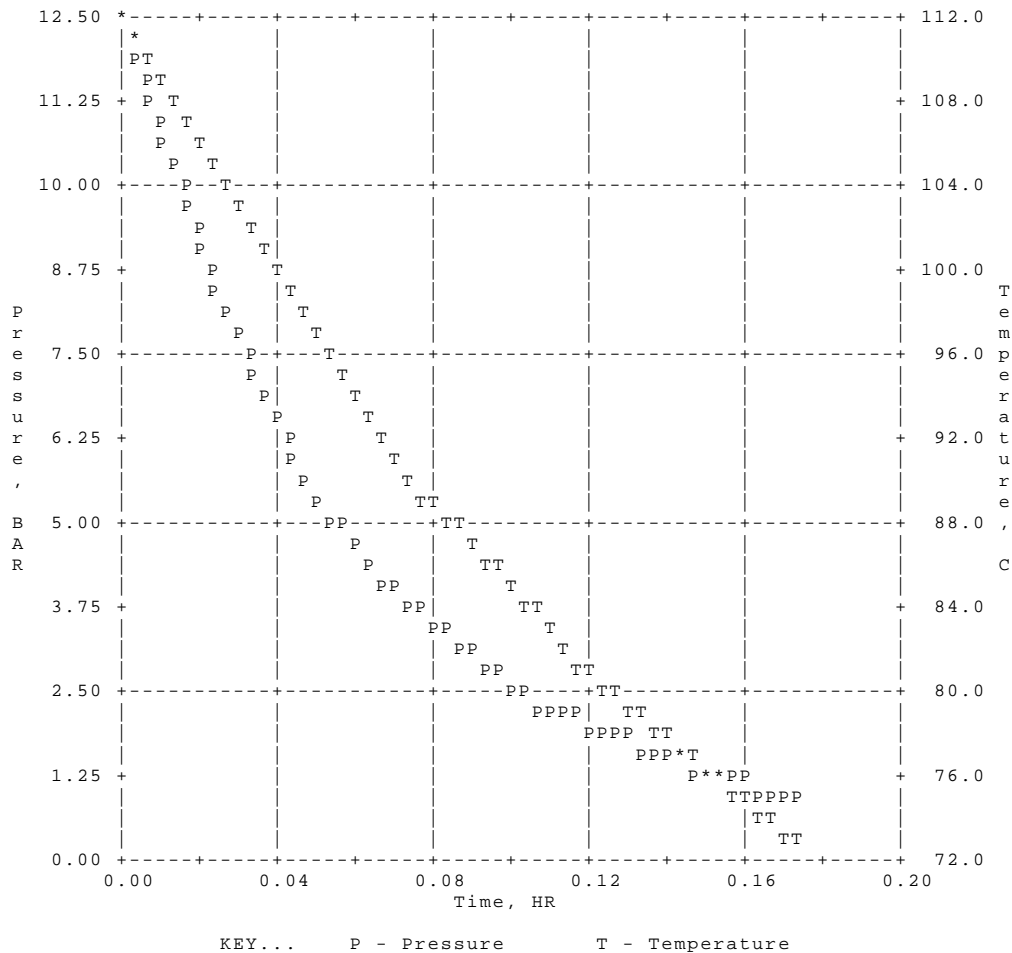




Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.500	111.9	69090.699	3534.557
2.5E-02	8.159	103.6	57461.508	3511.895
5.0E-02	5.410	96.5	38420.038	3449.774
7.5E-02	3.657	90.3	26228.837	3376.855
1.0E-01	2.528	85.0	18318.261	3298.134
0.125	1.788	80.4	13103.810	3216.985
0.150	1.296	76.4	9605.442	3135.835
0.175	0.962	72.9	7213.596	3056.505

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.4.3    BDV 0103

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUMN FRAC.	VAPOR VOLUMN FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
103-D-107	103-D-102	24	Vapor	0	0	23533	13.413	0	1	0	7
103-D-102	103-K-101	25	Vapor	0	0	23533	11.863	0	1	0	7
103-D-102	DR(103-D-108)	23	Liquid	304	639.391	0		1	0	10	0
	103-D-102				639.391		11.863			754	23
	TOTAL	QUANTITY								764	37

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
103-D-103	103-D-102	10	10.75	B03S	273.1	20	6.35	260.35	10.250	0	10	0.00	0.532	0.532
103-D-102	103-K-101	10	10.75	B48	273.1	10S	4.19	264.67	10.420	0	10	0.00	0.550	0.550
103-D-102	DR	2	2.37	B03S	60.2	80	5.54	49.118	1.934	0	8	0.02	0.000	0.015
	103-D-102											1.18	1.960	3.140
	TOTAL											1.20	3.04	4.24

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
103-D-107	103-D-102	24	Vapor	0	0	23533	13.413	8.178	0.000	0.010	0.010
103-D-102	103-K-101	25	Vapor	0	0	23533	11.863	8.315	0.000	0.010	0.010
103-D-102	DR(103-D-108)	23	Liquid	304	639.391	0		1.234	0.000	1.219	1.219
	103-D-102	23			639.391		11.863	12.31			4.800
	<b>TOTAL</b>	<b>QUANTITY</b>						30.037	0	1.239	6.039

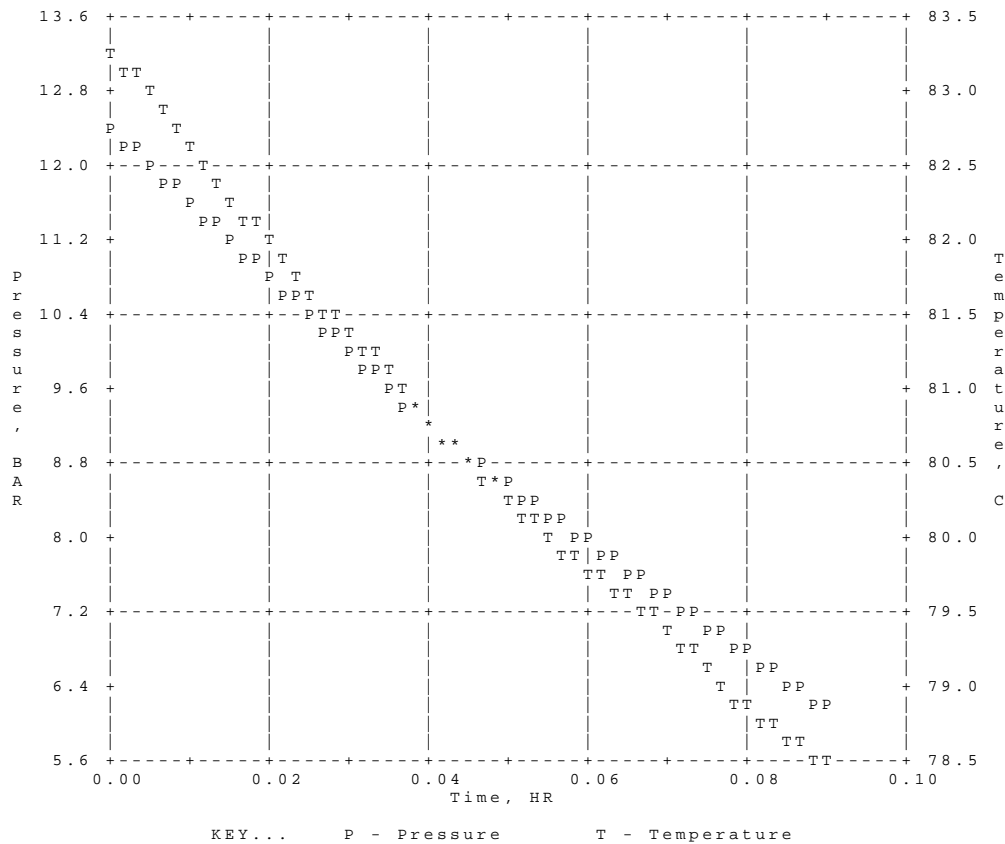


**Fire case:**

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.500	83.3	544.527	33.498
5.1E-03	12.028	82.9	534.046	33.510
1.0E-02	11.582	82.6	513.677	33.535
1.5E-02	11.152	82.3	494.262	33.559
2.0E-02	10.737	82.0	475.566	33.582
2.5E-02	10.337	81.7	457.566	33.605
3.0E-02	9.952	81.4	440.238	33.626
3.5E-02	9.581	81.1	423.557	33.647
4.0E-02	9.223	80.8	407.500	33.667
4.5E-02	8.878	80.5	392.043	33.686
5.0E-02	8.545	80.3	377.165	33.705
5.5E-02	8.225	80.0	362.844	33.723
5.9E-02	7.917	79.8	349.061	33.740
6.4E-02	7.619	79.6	335.796	33.757
6.9E-02	7.333	79.4	323.029	33.773
7.4E-02	7.057	79.1	310.742	33.789
7.9E-02	6.792	78.9	298.918	33.804
8.4E-02	6.536	78.7	287.539	33.818
8.9E-02	6.289	78.5	276.590	33.832
9.0E-02	6.240	78.5	270.145	33.841

Pressure and Temperature Profiles

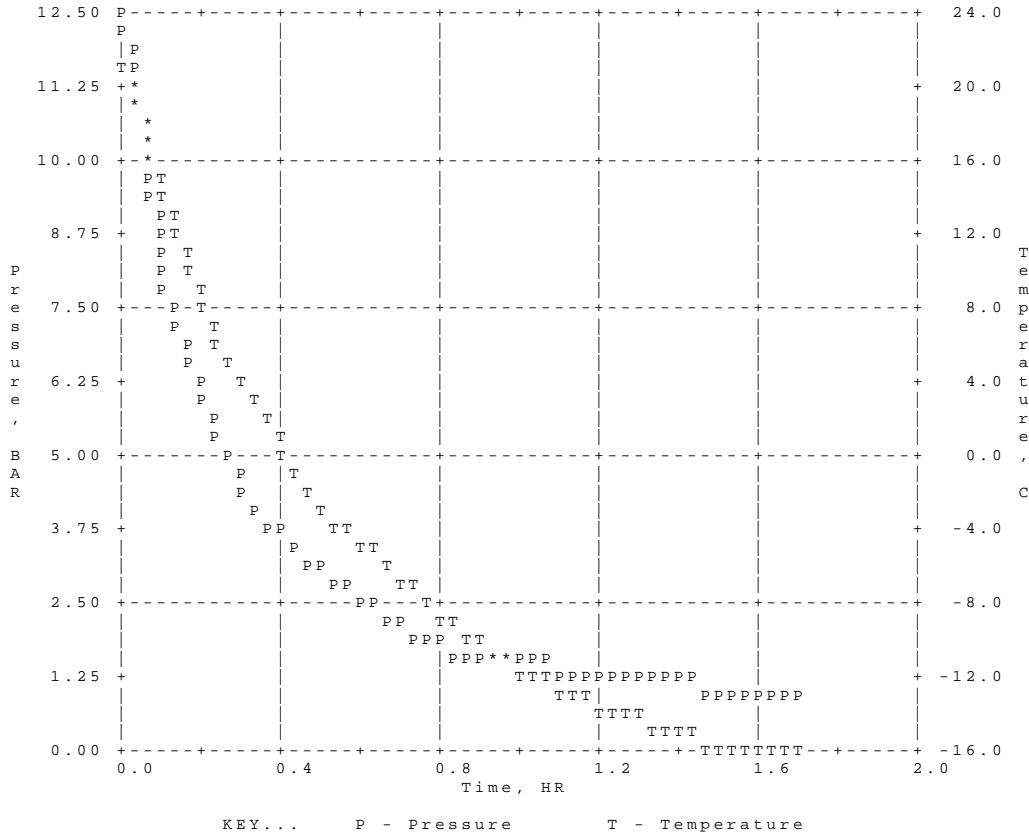




Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.500	21.0	573.568	31.802
5.2E-02	10.092	17.3	522.298	31.560
0.107	8.203	13.8	430.344	31.018
0.172	6.588	10.1	354.439	30.448
0.248	5.247	6.4	289.398	29.840
0.338	4.154	2.7	234.783	29.216
0.439	3.322	-7.5E-01	190.675	28.604
0.544	2.725	-3.7	157.263	28.053
0.652	2.285	-6.3	132.538	27.583
0.765	1.956	-8.5	113.839	27.184
0.881	1.704	-10.3	99.472	26.846
1.000	1.509	-11.9	88.262	26.558
1.122	1.354	-13.1	79.389	26.309
1.247	1.231	-14.2	72.276	26.092
1.373	1.130	-15.0	66.505	25.901
1.502	1.048	-15.6	61.774	25.731
1.567	1.012	-15.9	58.691	25.611
1.701	0.949	-16.3	56.097	25.505

Pressure and Temperature Profiles



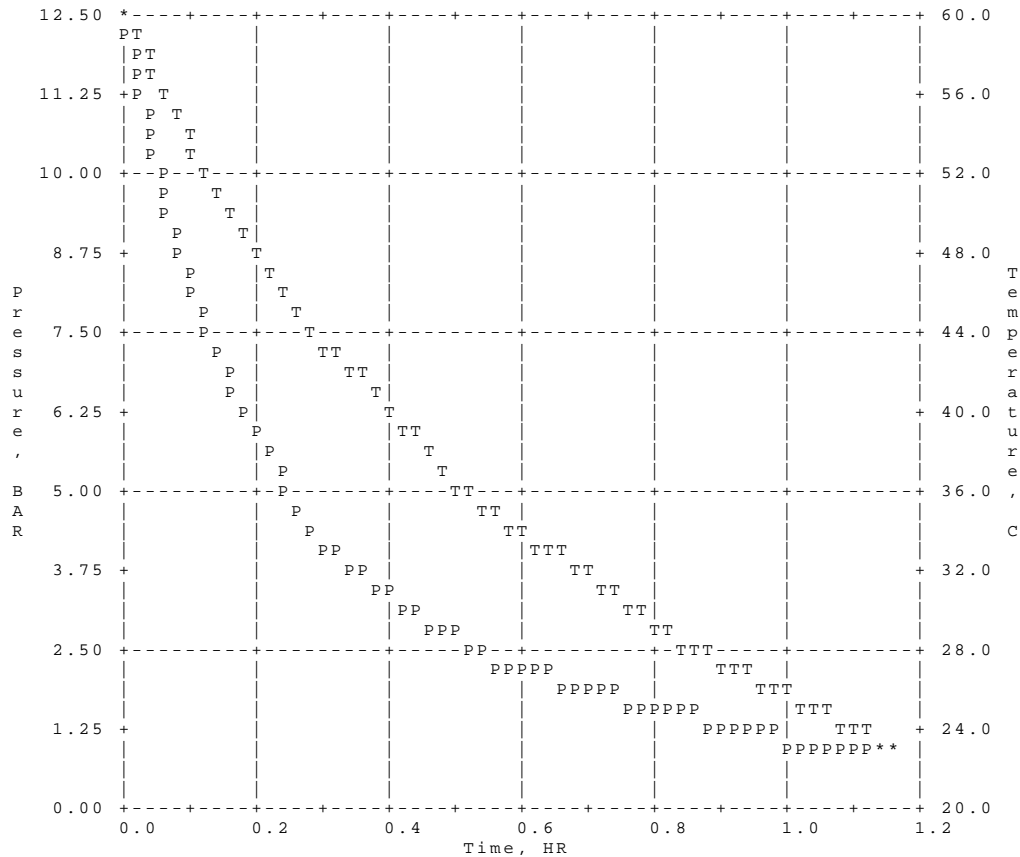
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	12.500	60.0	565.031	32.282
5.7E-02	9.716	56.1	506.946	31.974
0.119	7.602	52.4	403.967	31.279
0.194	5.829	48.5	320.687	30.559
0.286	4.392	44.3	250.316	29.793
0.381	3.391	40.6	195.537	29.041
0.482	2.675	37.3	155.980	28.376
0.586	2.154	34.3	126.769	27.795
0.694	1.766	31.6	104.815	27.289
0.806	1.473	29.1	88.023	26.850
0.921	1.247	26.9	74.966	26.467
1.039	1.069	24.9	64.658	26.130
1.160	0.928	23.1	56.405	25.832

Pressure and Temperature Profiles



KEY...    P - Pressure            T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

#### 5.4.4      BDV 0116

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUMN FRAC.	VAPOR VOLUMN FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
103-D-103	103-K-101	26	Vapor	0	0	44828	29.022	0	1	0	22
103-A-103	103-D-103	S 82	Vapor	0	0	44828	77.198	0		0	113
103-D-101	103-D-103	28	Vapor	0	0	25272	25.496	0	1	0	92
103-D-103	103-C-101	29	Liquid	6.238	986.883	0	0	1	0	62	0
103-D-103	102-D-101	S 53	Glyc. Water	6.238	986.822	0	0	1	0	23	0
103-D-103					986.822		29.022			6404	136
TOTAL		QUANTITY								6489	363

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
103-D-103	103-K-101	10	10.74	D48	272.8	40S	9.27	254.26	10.010	0	15	0.00	0.762	0.762
103-A-103	103-D-103	12	12.75	D48	323.9	40S	9.53	304.79	12.000	0	20	0.00	1.459	1.459
103-D-101	103-D-103	12	12.75	D48	323.9	40S	10.53	302.79	11.921	8	42	0.00	3.600	3.600
103-D-103	103-C-101	2	2.37	D03S	60.2	80	5.54	49.118	1.934	8	25	0.06	0.000	0.063
103-D-103	103-D-101	2	2.37	D48	60.2	10S	2.77	54.658	2.152	0	10	0.02	0.000	0.023
103-D-103												6.49	4.700	11.190
TOTAL												6.58	10.52	17.10

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

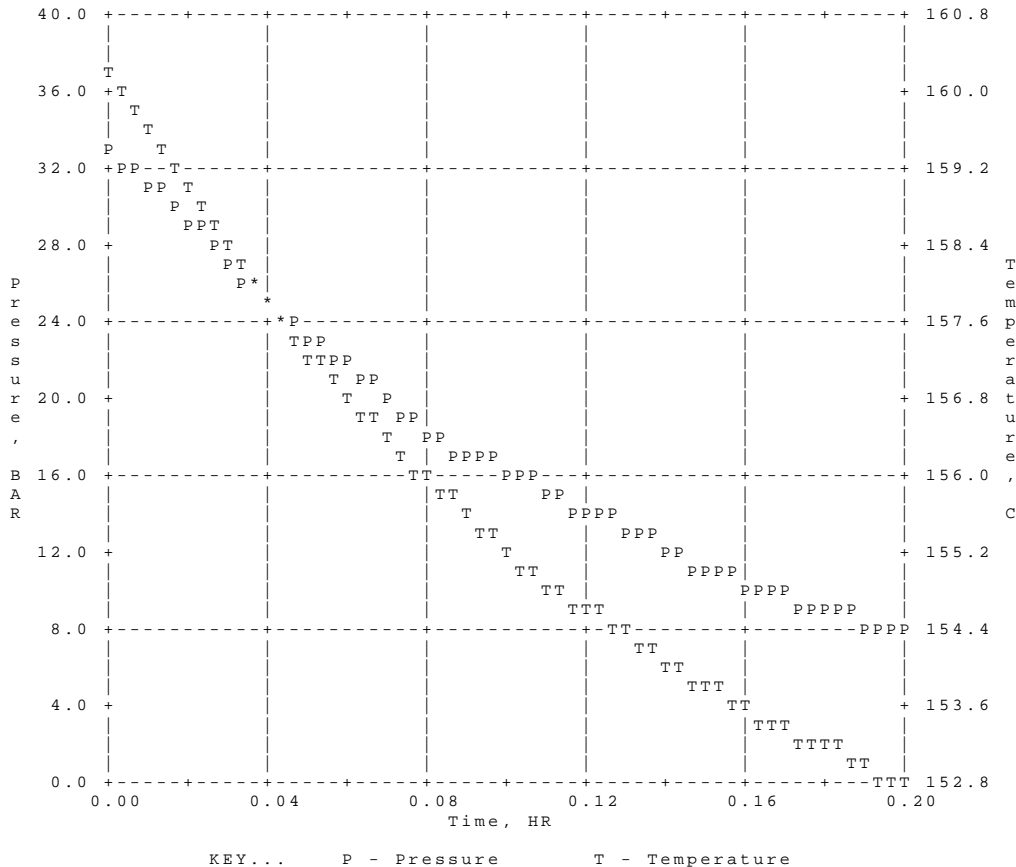
FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
103-D-103	103-K-101	26	Vapor	0		44828	29.022	11.982	0.000	0.214	0.214
103-A-103	103-D-103	S 82	Vapor	0		44828	77.198	19.147	0.000	0.022	0.022
103-D-101	103-D-103	28	Vapor	0	0	25272	25.496	26.806	0.000	0.312	0.312
103-D-103	103-C-101	29	Liquid	6.238	986.883	0	0	4.33	1.237	3.055	4.292
103-D-103	103-D-101	S 53	Glyc. Water	6.238	986.822	0	0	1.376	0.000	1.353	1.353
	103-D-103		Glyc. Water		986.822		0	30.66			17.590
	TOTAL	QUANTITY						94.301	1.237	4.956	23.783

**Fire Case:**

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.000	160.1	3027.710	122.465
1.5E-02	29.666	159.2	2874.046	122.495
3.0E-02	26.666	158.3	2582.225	122.558
4.5E-02	23.967	157.5	2319.860	122.618
6.0E-02	21.539	156.8	2083.992	122.675
7.5E-02	19.355	156.2	1871.963	122.729
9.0E-02	17.391	155.6	1681.380	122.779
0.105	15.624	155.1	1510.093	122.826
0.120	14.036	154.6	1356.163	122.869
0.135	12.608	154.2	1217.845	122.909
0.150	11.324	153.8	1093.569	122.946
0.165	10.170	153.5	981.919	122.979
0.180	9.133	153.2	881.623	123.010
0.195	8.202	152.9	791.533	123.038
0.200	7.913	152.8	735.692	123.056

Pressure and Temperature Profiles

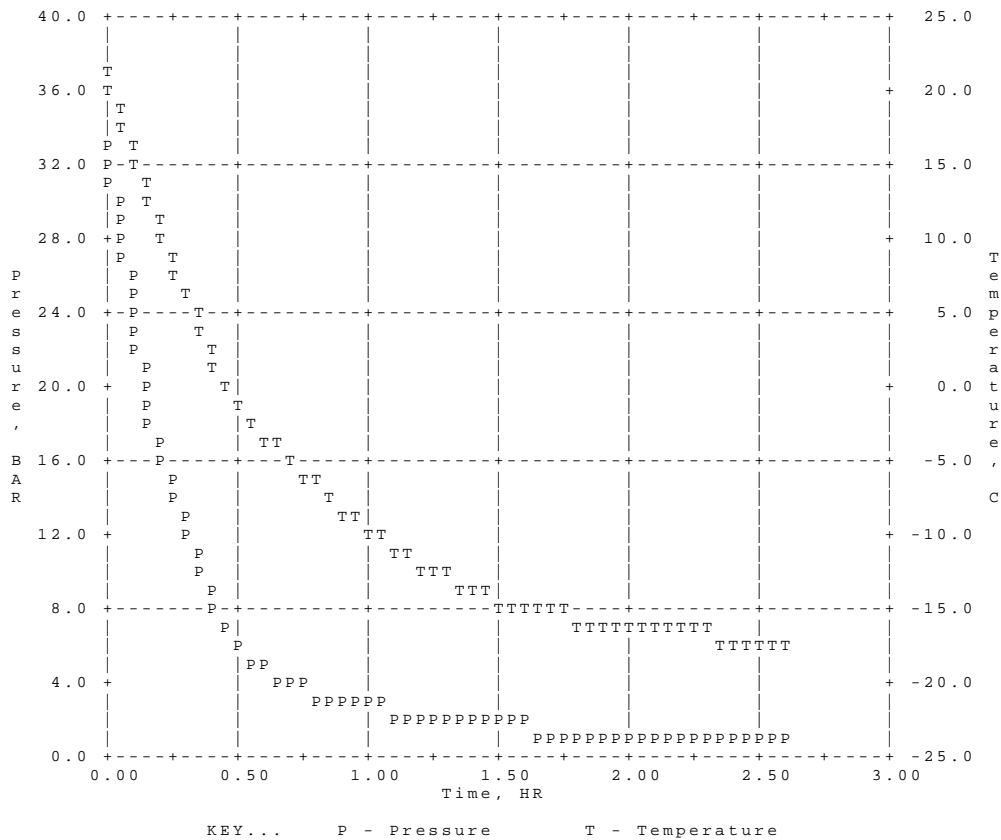


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.000	21.0	3752.596	98.808
0.140	18.893	12.5	2969.918	98.163
0.280	11.618	6.1	1788.907	95.820
0.420	7.686	1.3	1173.146	92.442
0.560	5.442	-2.5	829.207	88.946
0.700	4.089	-5.4	624.387	85.757
0.840	3.228	-7.8	494.982	83.040
0.980	2.654	-9.7	408.880	80.810
1.120	2.254	-11.2	348.917	79.014
1.260	1.964	-12.5	305.468	77.576
1.400	1.748	-13.6	272.889	76.421
1.540	1.581	-14.4	247.733	75.484
1.680	1.449	-15.1	227.815	74.712
1.820	1.342	-15.7	211.707	74.063
1.960	1.254	-16.1	198.446	73.509
2.100	1.181	-16.5	187.361	73.026
2.240	1.119	-16.8	177.979	72.597
2.380	1.066	-17.0	169.952	72.213
2.520	1.020	-17.1	163.021	71.863
2.590	0.999	-17.1	158.327	71.614

Pressure and Temperature Profiles

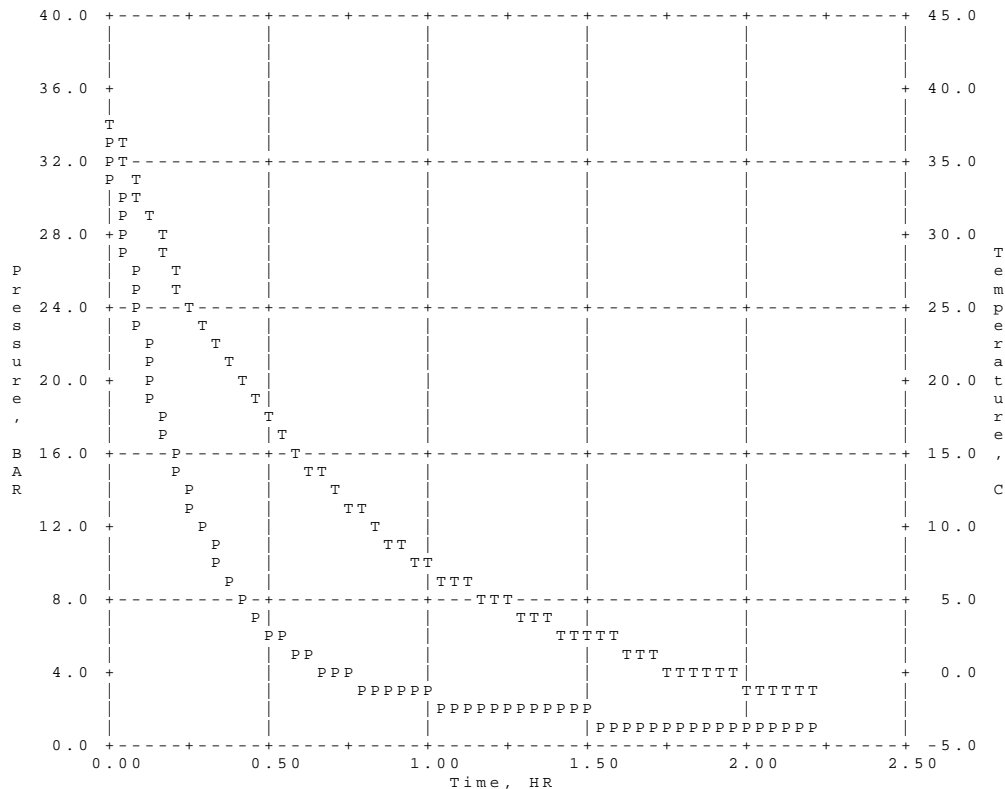


**Spurious depressurization:**

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	33.000	37.8	3702.870	100.135
0.120	19.890	30.8	2992.604	99.289
0.240	12.758	25.4	1898.303	96.620
0.360	8.696	21.0	1292.929	93.219
0.480	6.270	17.4	936.460	89.781
0.600	4.749	14.5	714.580	86.633
0.720	3.751	12.0	569.196	83.904
0.840	3.068	9.9	469.468	81.610
0.960	2.582	8.1	398.236	79.711
1.080	2.224	6.5	345.525	78.151
1.200	1.953	5.1	305.301	76.867
1.320	1.741	3.9	273.775	75.805
1.440	1.572	2.8	248.494	74.916
1.560	1.435	1.9	227.817	74.164
1.680	1.321	1.1	210.617	73.519
1.800	1.225	3.2E-01	196.101	72.958
1.920	1.144	-3.4E-01	183.728	72.460
2.040	1.074	-9.2E-01	173.051	72.012
2.160	1.013	-1.4	163.721	71.609
2.220	0.985	-1.7	157.364	71.323

Pressure and Temperature Profiles



KEY... P - Pressure    T - Temperature



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

#### 5.4.5    BDV 0126

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUMN FRAC.	VAPOR VOLUMN FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
103-K-101	103-A-103	S 79	Vapor	0		44828	62.128	0	1	0	75
103-A-103	100-D-101	27	Vapor	0		44828	77.198	0	1	0	109
103-A-103	103-D-103	S 82	Vapor	0		44828	77.198	0	1	0	17
	103-A-103		Vapor	0		44828	77.198	0	1	0	45
	<b>TOTAL</b>	<b>QUANTITY</b>								0	246

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
103-K-101	103-A-103	10	10.75	F23S	273	80	15.09	242.87	9.562	8	18	0.00	1.205	1.205
103-A-103	100-D-101	8	8.63	F48	219	80S	12.7	193.8	7.630	8	40	0.00	1.416	1.416
103-A-103	103-D-103	6	6.63	F48	168	40S	7.11	154.18	6.070	0	12	0.00	0.224	0.224
	103-A-103											0.00	0.580	0.580
	<b>TOTAL</b>											0.00	3.42	3.42

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

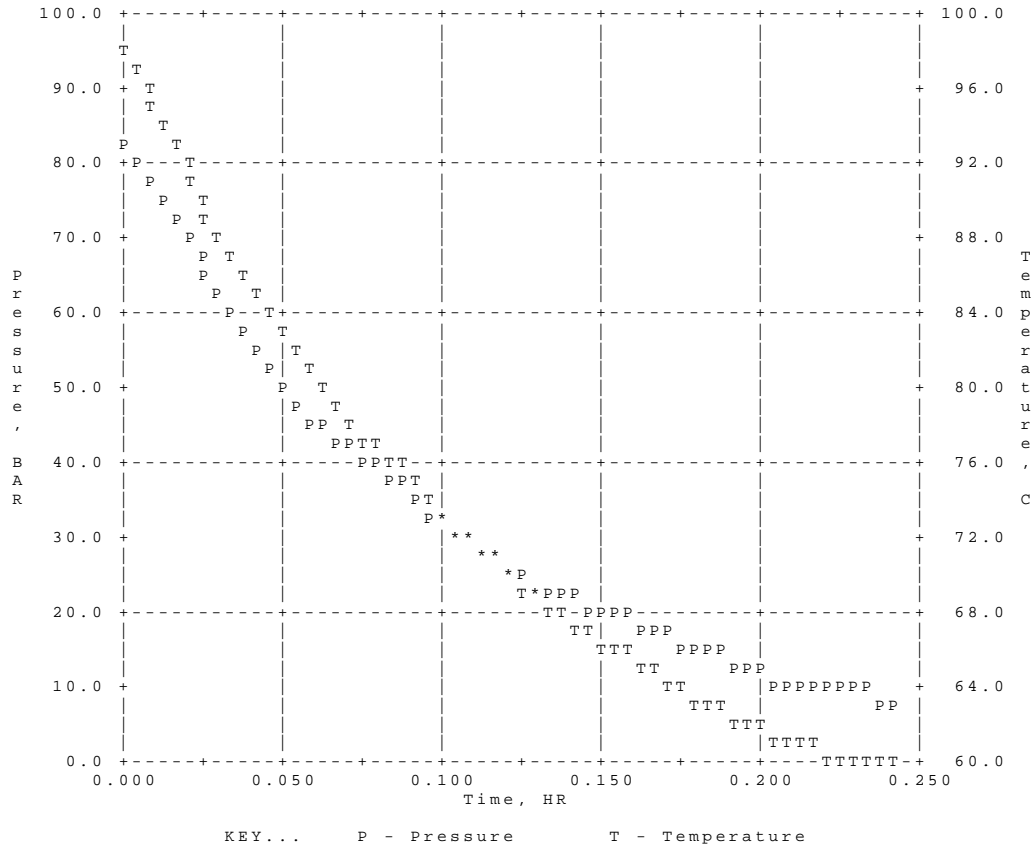
FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
103-K-101	103-A-103	S 79	Vapor	0		44828	62.128	19.834	0.000	0.251	0.251
103-A-103	100-D-101	27	Vapor	0		44828	77.198	17.039	0.000	0.018	0.018
103-A-103	103-D-103	S 82	Vapor	0		44828	77.198	3.855	0.000	0.024	0.024
	103-A-103		Vapor	0		44828	77.198				
	<b>TOTAL</b>	<b>QUANTITY</b>						40.728	0.000	0.293	0.293

**Fire case:**

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	97.6	2968.050	34.257
1.5E-02	71.573	92.7	2762.146	34.276
3.0E-02	61.808	88.3	2379.556	34.333
4.5E-02	53.405	84.3	2050.706	34.412
6.0E-02	46.143	80.7	1767.225	34.502
7.5E-02	39.853	77.5	1522.475	34.597
9.0E-02	34.400	74.6	1311.034	34.690
0.105	29.672	72.1	1128.363	34.780
0.120	25.575	69.8	970.604	34.863
0.135	22.026	67.9	834.438	34.940
0.150	18.957	66.2	716.992	35.010
0.165	16.304	64.7	615.768	35.073
0.180	14.013	63.3	528.591	35.129
0.195	12.037	62.2	453.566	35.178
0.210	10.335	61.2	389.043	35.222
0.225	8.869	60.4	333.587	35.260
0.240	7.608	59.6	285.952	35.293

Pressure and Temperature Profiles



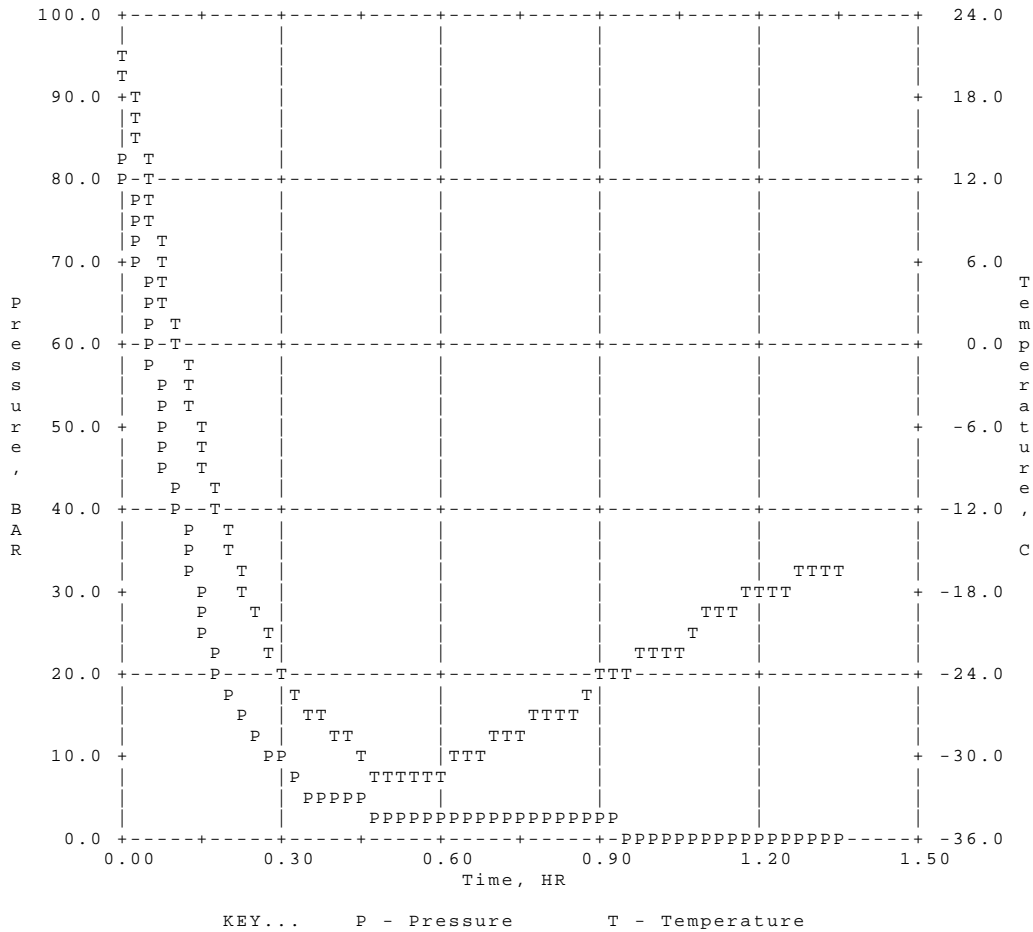
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	3572.619	28.460
4.0E-02	62.614	12.4	3050.073	29.241
8.0E-02	46.288	4.4	2164.113	30.822
0.120	33.880	-2.7	1551.121	31.656
0.160	24.764	-9.0	1122.026	32.013
0.200	18.198	-14.3	820.979	32.052
0.240	13.511	-18.8	609.355	31.873
0.280	10.176	-22.5	459.991	31.541
0.320	7.797	-25.4	353.946	31.102
0.360	6.091	-27.6	278.086	30.589
0.400	4.859	-29.2	223.333	30.030
0.440	3.960	-30.2	183.425	29.446
0.480	3.297	-30.9	154.033	28.855
0.520	2.804	-31.1	132.156	28.275
0.560	2.432	-31.1	115.700	27.717
0.600	2.149	-30.8	103.193	27.191
0.640	1.931	-30.3	93.591	26.703
0.680	1.762	-29.7	86.148	26.256
0.720	1.628	-29.0	80.321	25.852
0.760	1.522	-28.2	75.715	25.489
0.800	1.437	-27.3	72.038	25.165
0.840	1.368	-26.4	69.069	24.877
0.880	1.311	-25.5	66.643	24.622
0.920	1.263	-24.6	64.633	24.395
0.960	1.223	-23.7	62.941	24.194
1.000	1.188	-22.8	61.492	24.015
1.040	1.158	-21.9	60.226	23.856
1.080	1.130	-21.1	59.099	23.713
1.120	1.106	-20.2	58.073	23.584
1.160	1.083	-19.4	57.121	23.467
1.200	1.061	-18.5	56.220	23.361
1.240	1.041	-17.7	55.353	23.262
1.260	1.031	-17.3	54.710	23.192
1.300	1.011	-16.5	54.078	23.126
1.340	0.992	-15.8	53.248	23.044

Pressure and Temperature Profiles

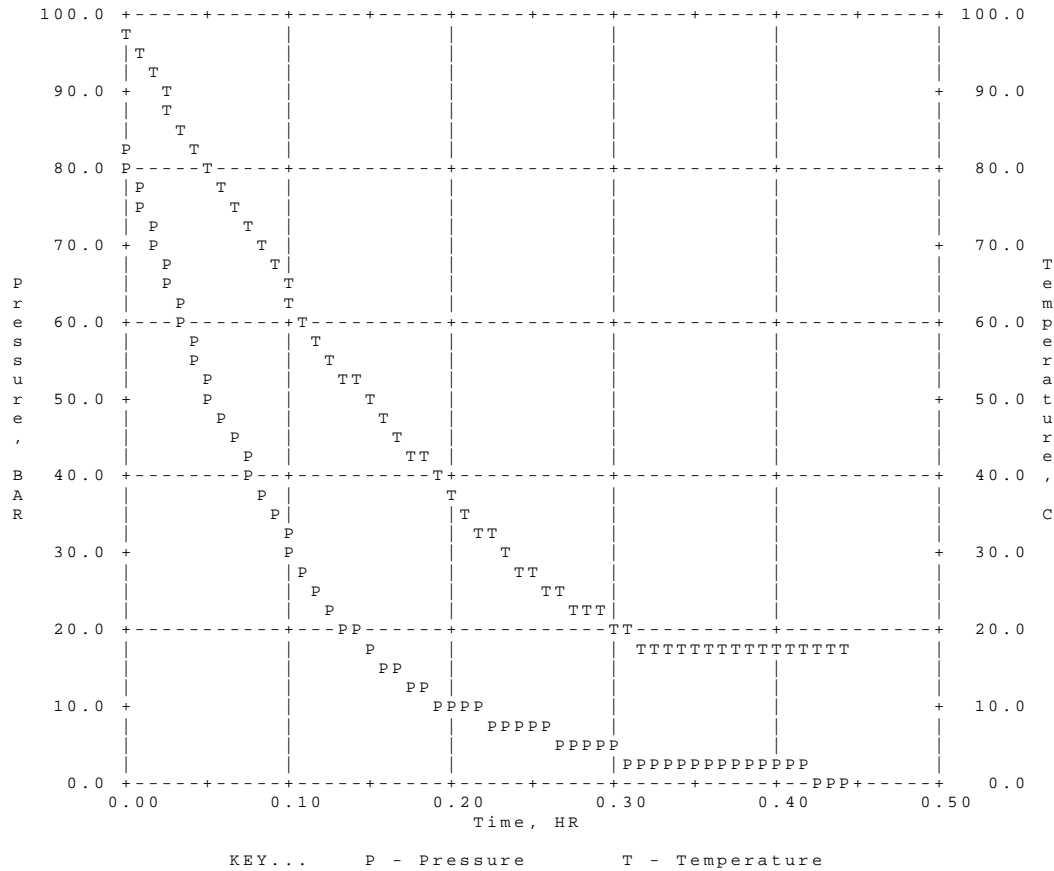


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	83.000	97.6	2968.050	34.257
4.0E-02	55.135	82.2	2471.392	34.235
8.0E-02	36.735	68.9	1645.424	34.198
0.120	24.393	57.1	1095.999	34.162
0.160	16.135	46.3	729.022	34.050
0.200	10.653	36.5	484.601	33.858
0.240	7.046	28.0	322.478	33.616
0.280	4.687	21.6	215.266	33.384
0.320	3.144	17.9	144.371	33.225
0.360	2.124	16.7	97.272	33.175
0.400	1.439	16.7	65.716	33.207
0.440	0.973	16.9	44.406	33.263

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

#### 5.4.6      BDV 0166

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUMN FRAC.	VAPOR VOLUMN FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
103-K-101	103-D-110	S31	Mixed	3971	528.957	19562	39.562	0.015	0.985	12	57
103-D-110	103-D-103	S1	Vapor	0		19562	39.562	0	1	0	10
103-D-110	103-C-101	S4	Liquid	3971	528.957	0		1	0	78	0
103-D-110	SOUR WATER		Water	86.46	983.22	0		1	0	23	0
103-A-102			Mixed	3971	528.957	19562	39.562	0.015	0.985	5	27
103-D-110					528.957		39.562			2021	101
	TOTAL	QUANTITY								2139	194

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
103-K-101	103-D-110	8	8.63	D48	219	40S	8.18	202.84	7.986	0	45	0.02	1.432	1.454
103-D-110	103-D-103	8	8.63	D48	219	40S	9.18	200.84	7.907	0	8	0.00	0.253	0.253
103-D-110	103-C-101	4	4.50	D03S	114	40	6.02	102.26	4.026	0	18	0.15	0.000	0.148
103-D-110	SOUR WATER	2	2.37	D48	60	10S	2.77	54.658	2.152	0	10	0.02	0.000	0.023
103-A-102												0.01	0.680	0.690
103-D-110												3.82	2.550	6.370
	TOTAL											4.02	4.92	8.94

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
103-K-101	103-D-110	S31	Mixed	3971	528.957	19562	39.562	12.739	0.000	1.641	1.641
103-D-110	103-D-103	S1	Vapor	0		19562	39.562	5.095	0.000	0.007	0.007
103-D-110	103-C-101	S4	Liquid	3971	528.957	0		3.093	0.000	3.053	3.053
103-D-110	SOUR WATER		Water	86.46	983.22	0		1.72	0.000	1.684	1.684
	103-A-102		Mixed	3971	528.957	19562	39.562				
	103-D-110				528.957		39.562	22.03			13.050
	<b>TOTAL</b>	<b>QUANTITY</b>						44.677	0.000	6.385	19.435

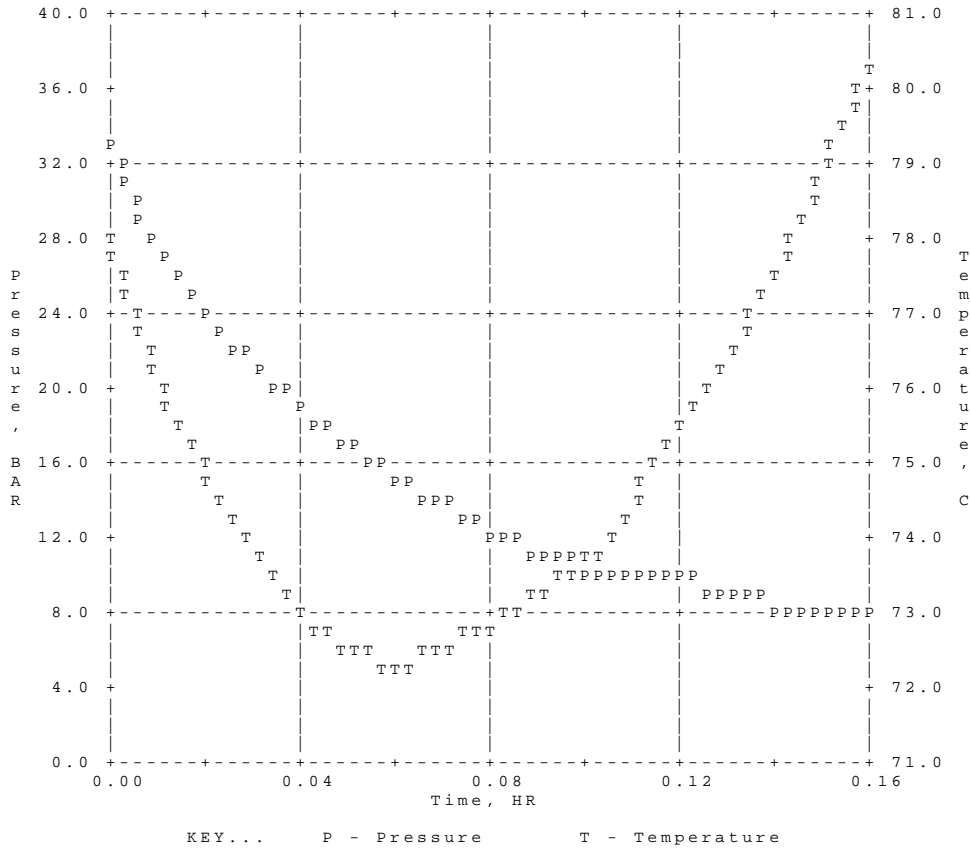


**Fire case:**

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	33.000	78.0	13284.053	273.816
7.1E-03	29.380	76.7	12588.560	273.097
1.4E-02	26.281	75.5	11301.441	271.436
2.2E-02	23.490	74.5	10178.655	269.486
3.0E-02	21.003	73.7	9174.507	267.273
3.9E-02	18.803	73.0	8282.699	264.863
4.9E-02	16.871	72.6	7494.878	262.320
5.9E-02	15.186	72.3	6802.649	259.707
6.9E-02	13.730	72.4	6198.721	257.084
8.1E-02	12.469	72.7	5673.333	254.505
9.3E-02	11.388	73.2	5217.235	252.020
0.105	10.465	74.0	4823.988	249.660
0.118	9.678	75.2	4486.134	247.455
0.132	9.011	76.6	4196.816	245.421
0.145	8.446	78.3	3949.783	243.573
0.160	7.969	80.2	3739.434	241.918
0.160	7.955	80.3	3639.952	241.097

Pressure and Temperature Profiles

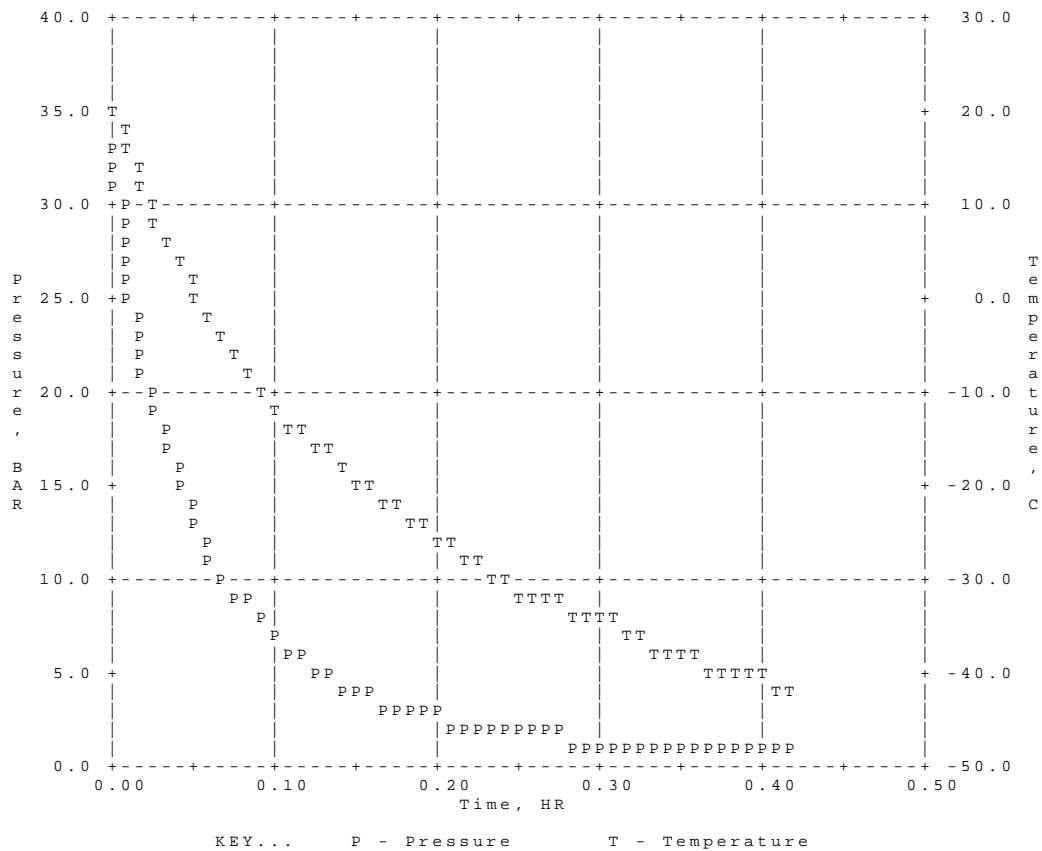


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	--- VENT RATE --- KG/HR	M3/HR
0.000	33.000	21.0	12742.312	285.458
2.0E-02	22.343	12.4	10705.821	284.896
6.0E-02	11.322	-1.3	6600.868	281.073
1.0E-01	6.572	-11.0	3632.923	271.449
0.140	4.267	-18.2	2285.969	261.316
0.180	3.021	-23.8	1587.972	252.946
0.220	2.281	-28.2	1185.175	246.532
0.260	1.806	-31.9	931.880	241.715
0.300	1.483	-35.0	761.376	238.063
0.340	1.250	-37.6	640.268	235.222
0.380	1.077	-39.8	550.531	232.932
0.420	0.943	-41.8	481.784	231.017

Pressure and Temperature Profiles

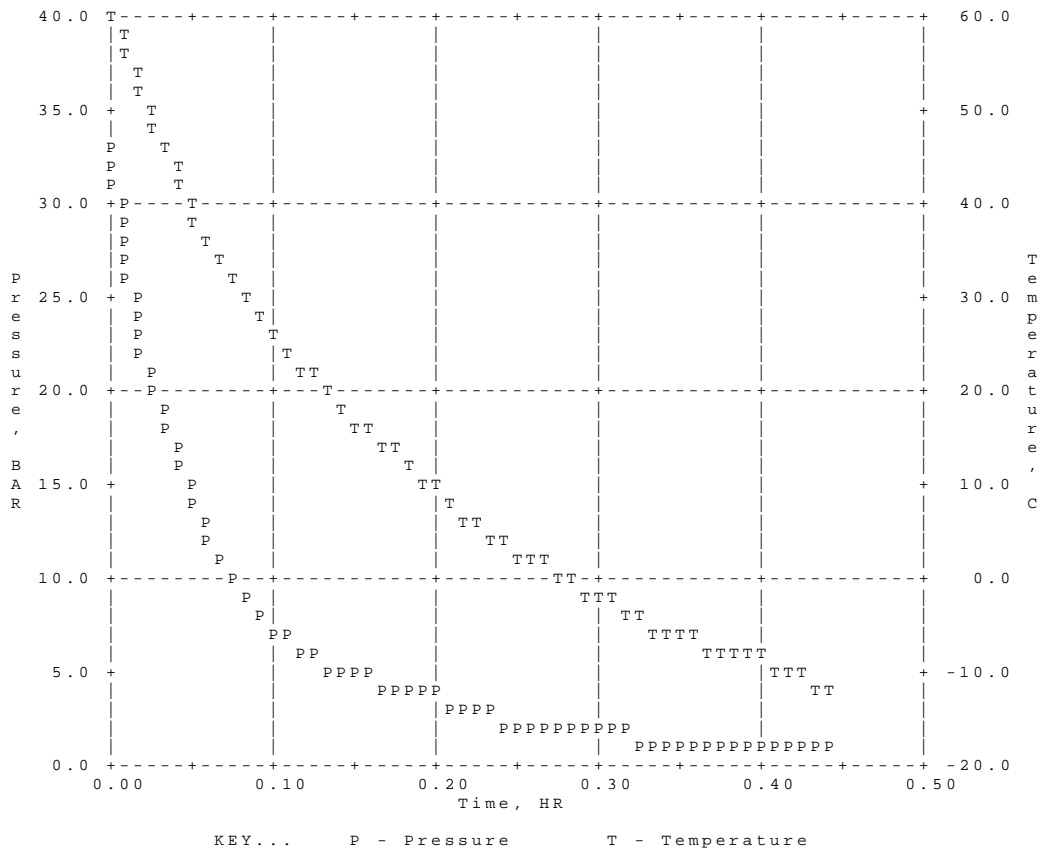


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.000	60.0	13333.000	272.811
2.0E-02	22.955	51.1	11335.436	272.051
6.0E-02	12.339	36.6	7250.969	268.262
1.0E-01	7.448	25.9	4192.911	260.084
0.140	4.933	17.7	2710.648	251.722
0.180	3.509	11.2	1901.502	244.686
0.220	2.636	5.9	1416.868	239.049
0.260	2.065	1.5	1104.659	234.553
0.300	1.671	-2.3	891.777	230.887
0.340	1.387	-5.5	739.794	227.826
0.380	1.176	-8.2	627.078	225.254
0.420	1.014	-10.7	541.007	223.058
0.440	0.946	-11.8	487.588	221.527

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

## 5.5      UNIT 104

### 5.5.1      BDV 0005

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV 0002	104-E-101	56	VAPOR	0.00	0.00	374728	21.45	0.00	1.00	0.00	724
104-E-101	SDV 0012	57	VAPOR	0.00	0.00	374728	19.675	0.00	1.00	0.00	435
	104-E-101	57			0.00		19.675			0.00	224.88525
	Total	Quantity								0.00	1384

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV 0002	104-E-101	32	32.00	D01	813	30	15.88	781.04	30.750	16	65	0.00	33.750	33.750
104-E-101	SDV 0012	28	27.99	D01	711	30	15.88	679.24	26.742	16	45	0.00	22.104	22.104
	104-E-101											0.00	11.430	
	Total											0.00	67.284	67.284

#### Wetted area calculation:

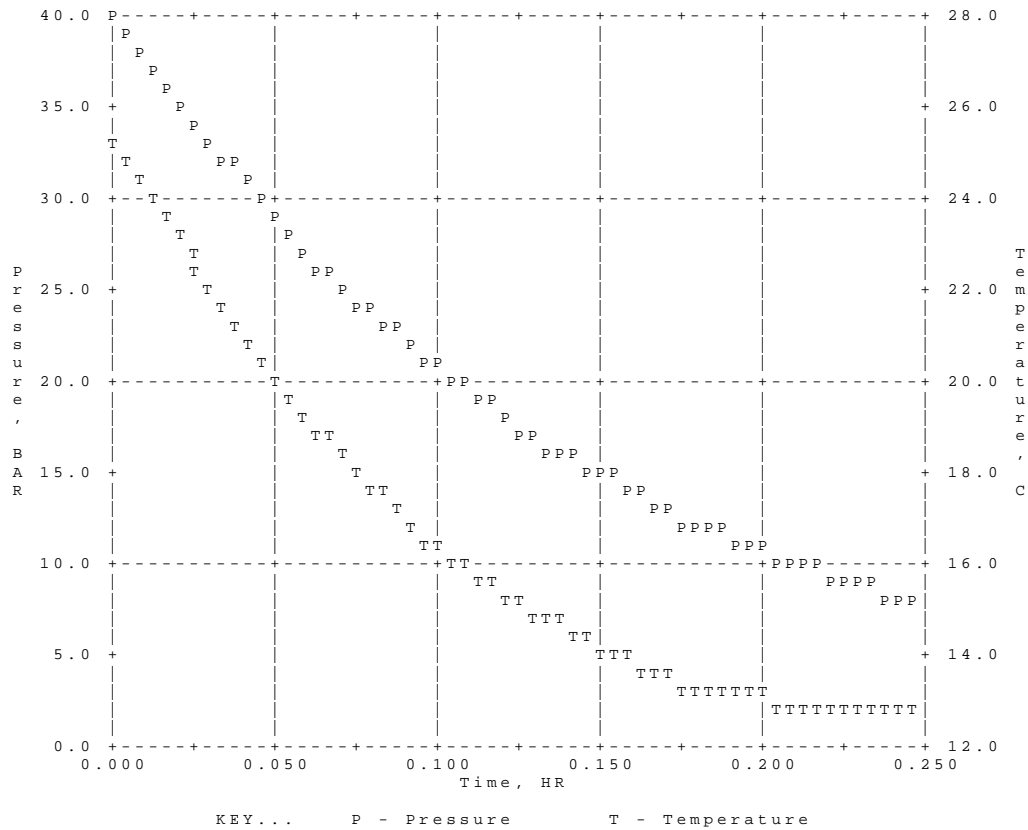
In the system there is no liquid phase and therefore no wetted surface

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	40.000	25.2	13018.294	443.683
1.5E-02	36.201	23.5	12402.533	443.598
3.0E-02	32.773	21.9	11230.105	443.446
4.5E-02	29.676	20.5	10169.998	443.345
6.0E-02	26.878	19.2	9211.097	443.292
7.5E-02	24.348	18.0	8343.482	443.281
9.0E-02	22.060	17.0	7558.268	443.312
0.105	19.990	16.1	6847.481	443.381
0.120	18.117	15.3	6203.954	443.489
0.135	16.422	14.6	5621.229	443.635
0.150	14.888	14.1	5093.486	443.819
0.165	13.498	13.6	4615.475	444.041
0.180	12.240	13.3	4182.453	444.301
0.195	11.099	13.1	3790.135	444.597
0.210	10.066	12.9	3434.651	444.929
0.225	9.130	12.9	3112.502	445.295
0.240	8.281	12.9	2820.523	445.692
0.247	7.887	13.0	2617.287	446.016

Pressure and Temperature Profiles

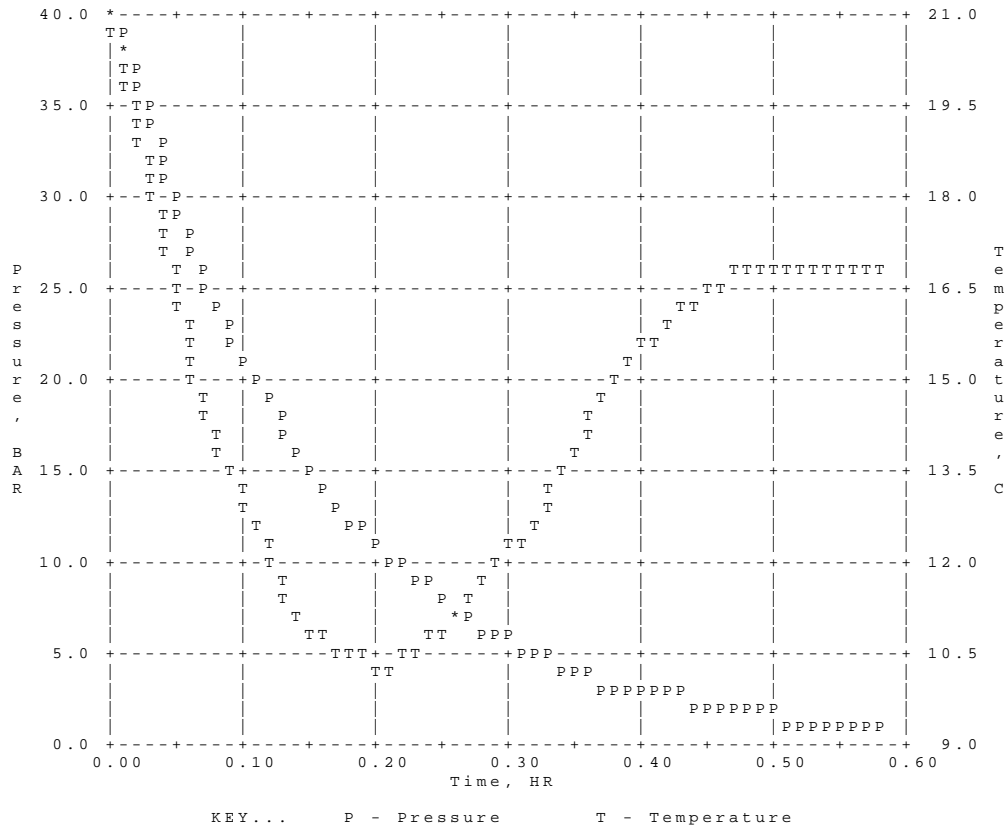


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	21.0	13138.429	439.626
3.5E-02	31.778	17.4	11789.300	439.585
7.0E-02	25.279	14.5	9370.752	439.620
0.105	20.129	12.5	7452.329	439.924
0.140	16.040	11.1	5928.620	440.469
0.175	12.790	10.4	4717.313	441.247
0.210	10.203	10.3	3753.654	442.250
0.245	8.141	10.8	2986.494	443.457
0.280	6.494	11.6	2375.367	444.825
0.315	5.178	12.7	1888.255	446.283
0.350	4.123	13.9	1499.841	447.733
0.385	3.279	14.9	1190.124	449.066
0.420	2.603	15.8	943.292	450.186
0.455	2.063	16.4	746.810	451.039
0.490	1.632	16.7	590.673	451.624
0.525	1.290	16.9	466.836	451.993
0.560	1.020	16.9	368.785	452.219
0.578	0.906	16.9	307.414	452.343

Pressure and Temperature Profiles

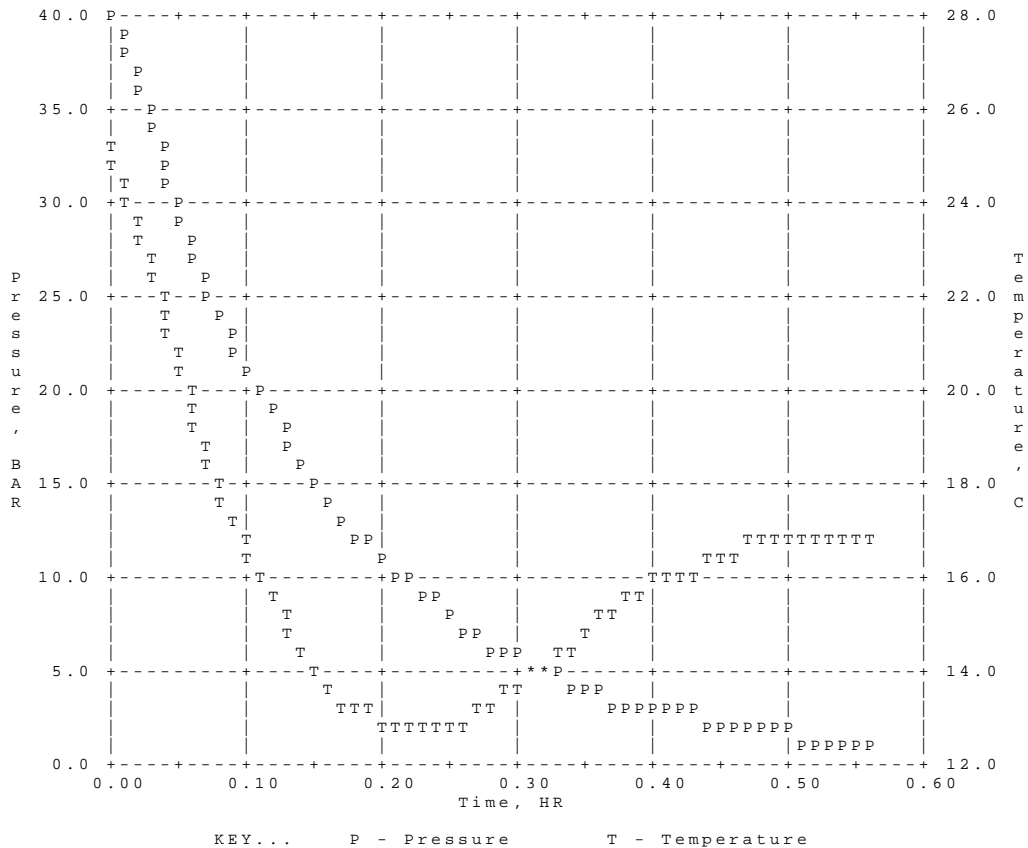




Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	25.2	13018.294	443.683
3.5E-02	31.680	21.4	11668.123	443.543
7.0E-02	25.122	18.4	9250.607	443.337
0.105	19.940	16.1	7338.231	443.365
0.140	15.839	14.4	5823.521	443.597
0.175	12.590	13.3	4622.737	444.025
0.210	10.013	12.8	3670.158	444.648
0.245	7.966	12.8	2913.994	445.457
0.280	6.338	13.2	2313.359	446.422
0.315	5.041	13.9	1835.971	447.493
0.350	4.007	14.6	1456.349	448.592
0.385	3.182	15.4	1154.406	449.631
0.420	2.523	16.0	914.296	450.525
0.455	1.998	16.5	723.501	451.223
0.490	1.581	16.7	572.077	451.715
0.525	1.250	16.9	452.075	452.038
0.560	0.987	16.9	357.101	452.243

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>



### 5.5.2 BDV 0007

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
105-E-106	104-E-102	142	MIXED	125200.00	501.975	53978	17.896	0.077	0.923	224.88	97
104-E-102	105-E-101	S142LV	LIQUID	75316	502.082	0.00	0.00	1.000	0.000	722.50	0
104-E-102	105-E-105		LIQUID	75317	502.082	0.00	0.00	1.000	0.000	1108.60	0
104-E-102	105-E-101		VAPOR	0.00	0.00	103862	17.898	0.000	1.000	0.00	119
104-E-102	S142LV				502.082		17.898			1257.409	403.4121
Total		Quantity								3313.387	619.251



FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
105-E-106	104-E-102	16	16	B21	406.40	10.00	6.35	393.7	15.5	8	40	0.448	5.395	5.843
104-E-102	105-E-101	8	8.63	B21	219.10	20.00	6.35	206.4	8.126	8	35	1.439	0.000	1.439
104-E-102	105-E-105	8	8.63	B21	219.10	20.00	6.35	206.4	8.126	8	58	2.208	0.000	2.208
104-E-102	105-E-101	18	17.99	B21	456.90	10.00	6.35	444.25	17.49	8	35	0.000	6.665	6.665
104-E-102												2.504	22.540	25.044
Total												6.60	34.600	41.199



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
105-E-106	104-E-102	142	MIXED	125200.00	501.975	53978	17.896	59.369	0.759	11.596	12.355
104-E-102	105-E-101	S142LV	LIQUID	75316	502.082	0.00	0.00	27.882	5.187	22.059	27.246
104-E-102	105-E-105		LIQUID	75317	502.082	0.00	0.00	42.796	5.187	36.554	41.741
104-E-102	105-E-101		VAPOR	0.00	0.00	103862	17.898	60.013	0.000	0.808	0.808
	104-E-102	S142LV			502.082		17.898	37.35			37.35
	Total	Quantity									119.500

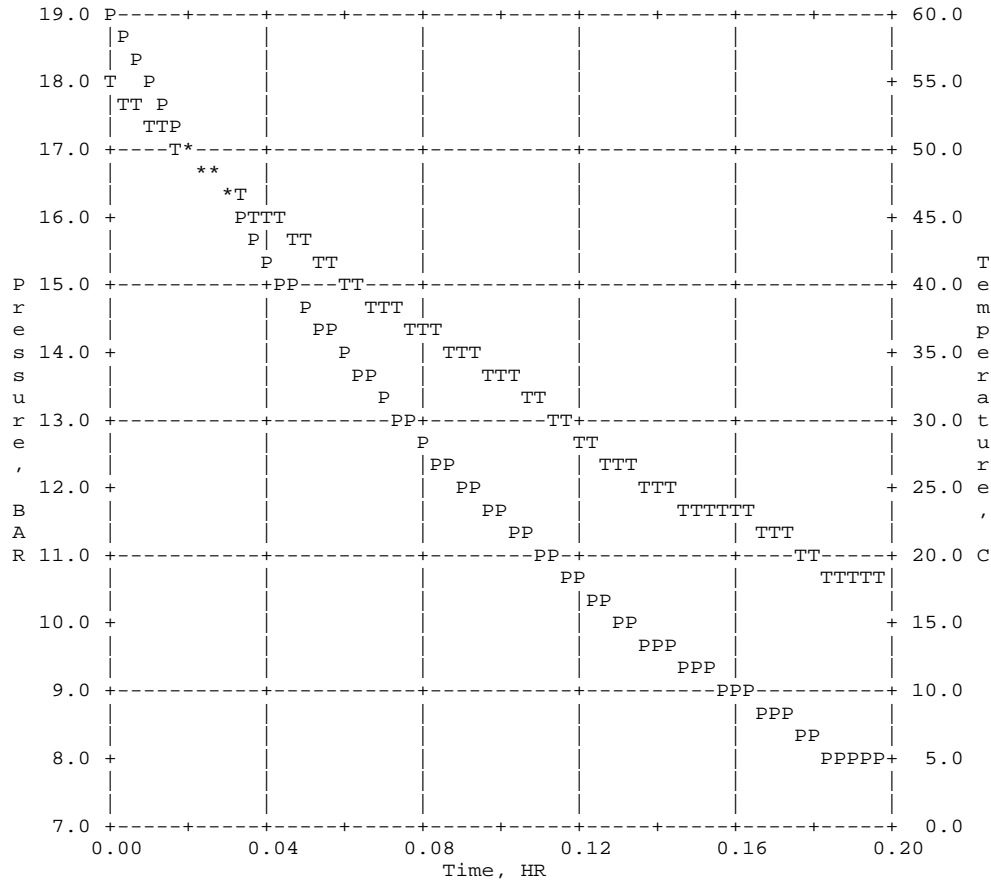
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	<b>Rev. : 3    Class: 2</b>

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	19.000	54.4	24554.259	559.068
1.0E-02	18.048	52.0	23889.459	560.230
2.0E-02	17.146	49.7	22602.274	562.498
3.0E-02	16.292	47.4	21397.884	564.520
4.0E-02	15.487	45.1	20271.785	566.317
5.0E-02	14.728	42.9	19219.622	567.908
6.0E-02	14.013	40.7	18237.198	569.311
7.0E-02	13.342	38.6	17320.480	570.541
8.0E-02	12.712	36.6	16465.604	571.615
9.0E-02	12.122	34.6	15668.892	572.546
1.0E-01	11.569	32.7	14926.812	573.347
0.110	11.052	30.9	14235.997	574.032
0.120	10.570	29.1	13593.277	574.611
0.130	10.119	27.4	12995.644	575.095
0.140	9.699	25.7	12440.248	575.495
0.150	9.308	24.1	11924.399	575.818
0.160	8.944	22.6	11445.559	576.075
0.170	8.606	21.2	11001.338	576.271
0.180	8.291	19.8	10589.490	576.416
0.185	8.142	19.1	10297.680	576.499
0.195	7.861	17.8	10027.455	576.550

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

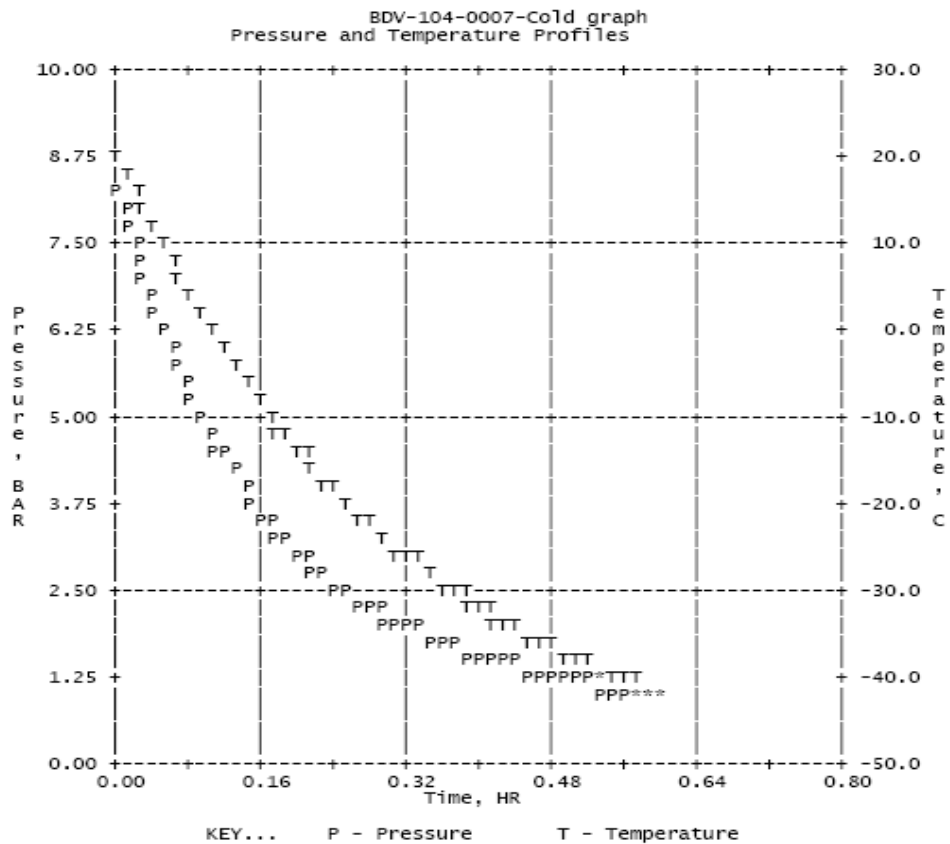
Cold depressurization:



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.265	19.4	9114.139	507.392
1.0E-02	7.812	17.3	8863.395	507.436
2.0E-02	7.387	15.3	8378.471	507.490
3.0E-02	6.990	13.3	7925.465	507.472
4.0E-02	6.617	11.3	7502.167	507.390
5.0E-02	6.269	9.4	7106.591	507.250
6.0E-02	5.942	7.6	6736.839	507.057
7.0E-02	5.636	5.8	6391.139	506.818
8.0E-02	5.350	4.0	6067.834	506.536
9.0E-02	5.082	2.3	5765.383	506.216
1.0E-01	4.831	6.7E-01	5482.347	505.863
0.110	4.596	-9.4E-01	5217.387	505.481
0.120	4.376	-2.5	4969.256	505.073
0.130	4.169	-4.0	4736.794	504.642
0.140	3.975	-5.5	4518.923	504.192
0.150	3.794	-7.0	4314.666	503.725
0.160	3.623	-8.4	4123.062	503.244
0.170	3.463	-9.7	3943.224	502.752
0.180	3.313	-11.0	3774.375	502.249
0.190	3.172	-12.3	3615.768	501.739
0.200	3.039	-13.6	3466.709	501.223
0.210	2.915	-14.8	3326.556	500.703
0.220	2.797	-15.9	3194.710	500.180
0.230	2.687	-17.1	3070.617	499.655
0.240	2.583	-18.2	2953.762	499.130
0.250	2.485	-19.3	2843.666	498.607
0.260	2.393	-20.3	2739.887	498.085
0.270	2.306	-21.3	2642.010	497.566
0.280	2.224	-22.3	2549.653	497.050
0.290	2.147	-23.2	2462.460	496.539
0.300	2.074	-24.2	2380.102	496.033
0.310	2.005	-25.0	2302.272	495.533
0.320	1.939	-25.9	2228.682	495.039
0.330	1.878	-26.7	2159.066	494.551
0.340	1.819	-27.6	2093.177	494.070
0.350	1.764	-28.3	2030.784	493.596
0.360	1.712	-29.1	1971.674	493.130
0.370	1.662	-29.9	1915.645	492.672
0.380	1.615	-30.6	1862.513	492.221
0.390	1.570	-31.3	1812.104	491.779
0.400	1.528	-31.9	1764.255	491.345
0.410	1.488	-32.6	1718.818	490.920
0.420	1.450	-33.2	1675.650	490.503
0.430	1.414	-33.8	1634.620	490.095

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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0.440	1.379	-34.4	1595.605	489.695
0.450	1.347	-35.0	1558.490	489.304
0.460	1.315	-35.6	1523.168	488.922
0.470	1.286	-36.1	1489.539	488.548
0.480	1.258	-36.6	1457.509	488.183
0.490	1.231	-37.2	1426.989	487.826
0.500	1.205	-37.6	1397.897	487.478
0.510	1.181	-38.1	1370.157	487.138
0.520	1.157	-38.6	1343.695	486.807
0.530	1.135	-39.0	1318.444	486.483
0.540	1.114	-39.5	1294.340	486.168
0.550	1.094	-39.9	1271.323	485.861
0.560	1.075	-40.3	1249.337	485.562
0.570	1.056	-40.7	1228.329	485.270
0.580	1.039	-41.1	1208.248	484.986
0.585	1.030	-41.2	1193.687	484.777
0.595	1.014	-41.6	1179.763	484.575
0.605	0.998	-42.0	1161.805	484.309




	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

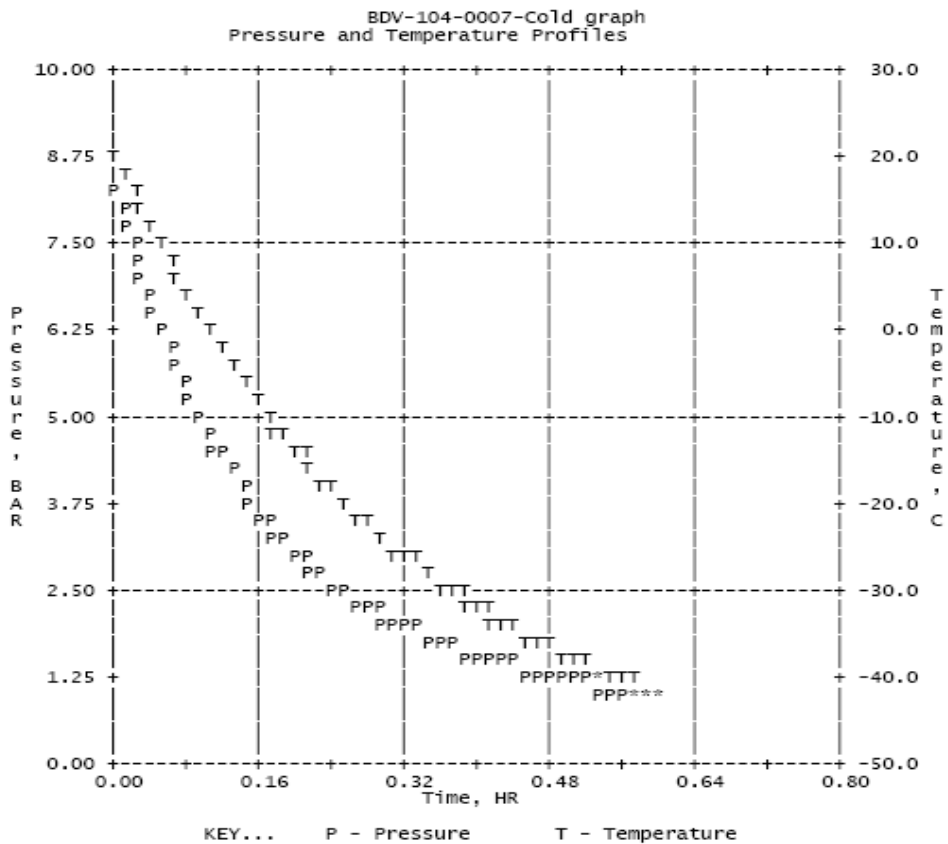
Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.265	19.4	9114.139	507.392
1.0E-02	7.812	17.3	8863.395	507.436
2.0E-02	7.387	15.3	8378.471	507.490
3.0E-02	6.990	13.3	7925.465	507.472
4.0E-02	6.617	11.3	7502.167	507.390
5.0E-02	6.269	9.4	7106.591	507.250
6.0E-02	5.942	7.6	6736.839	507.057
7.0E-02	5.636	5.8	6391.139	506.818
8.0E-02	5.350	4.0	6067.834	506.536
9.0E-02	5.082	2.3	5765.383	506.216
1.0E-01	4.831	6.7E-01	5482.347	505.863
0.110	4.596	-9.4E-01	5217.387	505.481
0.120	4.376	-2.5	4969.256	505.073
0.130	4.169	-4.0	4736.794	504.642
0.140	3.975	-5.5	4518.923	504.192
0.150	3.794	-7.0	4314.666	503.725
0.160	3.623	-8.4	4123.062	503.244
0.170	3.463	-9.7	3943.224	502.752
0.180	3.313	-11.0	3774.375	502.249
0.190	3.172	-12.3	3615.768	501.739
0.200	3.039	-13.6	3466.709	501.223
0.210	2.915	-14.8	3326.556	500.703
0.220	2.797	-15.9	3194.710	500.180
0.230	2.687	-17.1	3070.617	499.655
0.240	2.583	-18.2	2953.762	499.130
0.250	2.485	-19.3	2843.666	498.607
0.260	2.393	-20.3	2739.887	498.085
0.270	2.306	-21.3	2642.010	497.566
0.280	2.224	-22.3	2549.653	497.050
0.290	2.147	-23.2	2462.460	496.539
0.300	2.074	-24.2	2380.102	496.033
0.310	2.005	-25.0	2302.272	495.533
0.320	1.939	-25.9	2228.682	495.039
0.330	1.878	-26.7	2159.066	494.551
0.340	1.819	-27.6	2093.177	494.070
0.350	1.764	-28.3	2030.784	493.596
0.360	1.712	-29.1	1971.674	493.130
0.370	1.662	-29.9	1915.645	492.672
0.380	1.615	-30.6	1862.513	492.221
0.390	1.570	-31.3	1812.104	491.779
0.400	1.528	-31.9	1764.255	491.345
0.410	1.488	-32.6	1718.818	490.920
0.420	1.450	-33.2	1675.650	490.503
0.430	1.414	-33.8	1634.620	490.095

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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0.440	1.379	-34.4	1595.605	489.695
0.450	1.347	-35.0	1558.490	489.304
0.460	1.315	-35.6	1523.168	488.922
0.470	1.286	-36.1	1489.539	488.548
0.480	1.258	-36.6	1457.509	488.183
0.490	1.231	-37.2	1426.989	487.826
0.500	1.205	-37.6	1397.897	487.478
0.510	1.181	-38.1	1370.157	487.138
0.520	1.157	-38.6	1343.695	486.807
0.530	1.135	-39.0	1318.444	486.483
0.540	1.114	-39.5	1294.340	486.168
0.550	1.094	-39.9	1271.323	485.861
0.560	1.075	-40.3	1249.337	485.562
0.570	1.056	-40.7	1228.329	485.270
0.580	1.039	-41.1	1208.248	484.986
0.585	1.030	-41.2	1193.687	484.777
0.595	1.014	-41.6	1179.763	484.575
0.605	0.998	-42.0	1161.805	484.309



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

### 5.5.3    BDV 0019

#### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
101-D-104	104-E-101	S66	VAPOR	0.00	0.00	484010	51.361	0.00	1.00	0.00	1099
104-E-101	104-E-102	104 7	MIXED	331	993.779	478560	53.461	0.00	1.00	0.00	401
104-E-102	104-D-101	104 6	MIXED	548	997.497	478343	57.011	0.00	1.00	0.00	460
104-D-101	104-R-101	32	VAPOR	0.00	0	478342	56.924	0.00	1.00	0.00	1021
104-D-101	103-D-101	33	LIQUID	380	611.892	0.00	0.000	1.00	0.00	8.57	0.00
104-D-101	unit 101,109	34	WATER	550	997.507	0.00	0.000	1.00	0.00	23.94	0.00
	104-E-101	104 7	MIXED	331	993.779	478560	53.461	0.00	1.00	0.00	230.90
	104-E-102	104 6	MIXED	548	997.497	478343	57.011	0.00	1.00	0.00	282.26
	104-D-101	32 & 33			611.892		56.924			12008.38	3245.52
	Total	Quantity								12040.89	6740



FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
101-D-104	104-E-101	26	25.98	F23S	660		30.6	598.79	23.575	16	60	0.00	21.402	21.40
104-E-101	104-E-102	26	25.98	F48	659.9		26.9	606.09	23.862	16	10	0.00	7.501	7.50
104-E-102	104-D-101	26	25.98	F48	659.9		26.9	606.09	23.862	10	18	0.00	8.077	8.08
104-D-101	104-R-101	24	24.02	F03	610	80	30.96	548.09	21.578	16	60	0.00	17.931	17.93
104-D-101	103-D-101	2	2.37	F03S	60	160	8.74	42.82	1.686	0	10	0.014	0.000	0.014
104-D-101	unit 101,109	2	2.37	F48	60	10S	2.77	54.76	2.156	0	10	0.024	0.000	0.024
	104-E-101											0.00	4.319	4.319
	104-E-102											0.00	4.951	4.951
	104-D-101											19.63	57.015	76.640
	Total											19.66	121.196	140.859



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
101-D-104	104-E-101	S66	VAPOR	0.00	0.00	478891	50.83	52.673	0.000	0.979	0.979
104-E-101	104-E-102	104_7	MIXED	331	993.779	478560	53.46	34.274	0.001	0.493	0.494
104-E-102	104-D-101	104_6	MIXED	548	997.497	478343	57.01	49.506	0.002	0.887	0.889
104-D-101	104-R-101	32	VAPOR	0.00	0.00	478342	56.92	48.212	0.000	0.937	0.937
104-D-101	103-D-101	33	LIQUID	380	611.892	0.00	0.00	1.345	0.000	1.300	1.300
104-D-101	unit 101,109	34	WATER	549.00	997.51	0.00	0.00	1.720	0.000	1.185	1.185
	104-E-101	104_7	MIXED	331	993.779	478560	53.46				19.10
	104-D-101	32 & 33			611.892		56.92	101.34			28.992
	Total	Quantity						289.069	0.003	5.78	54

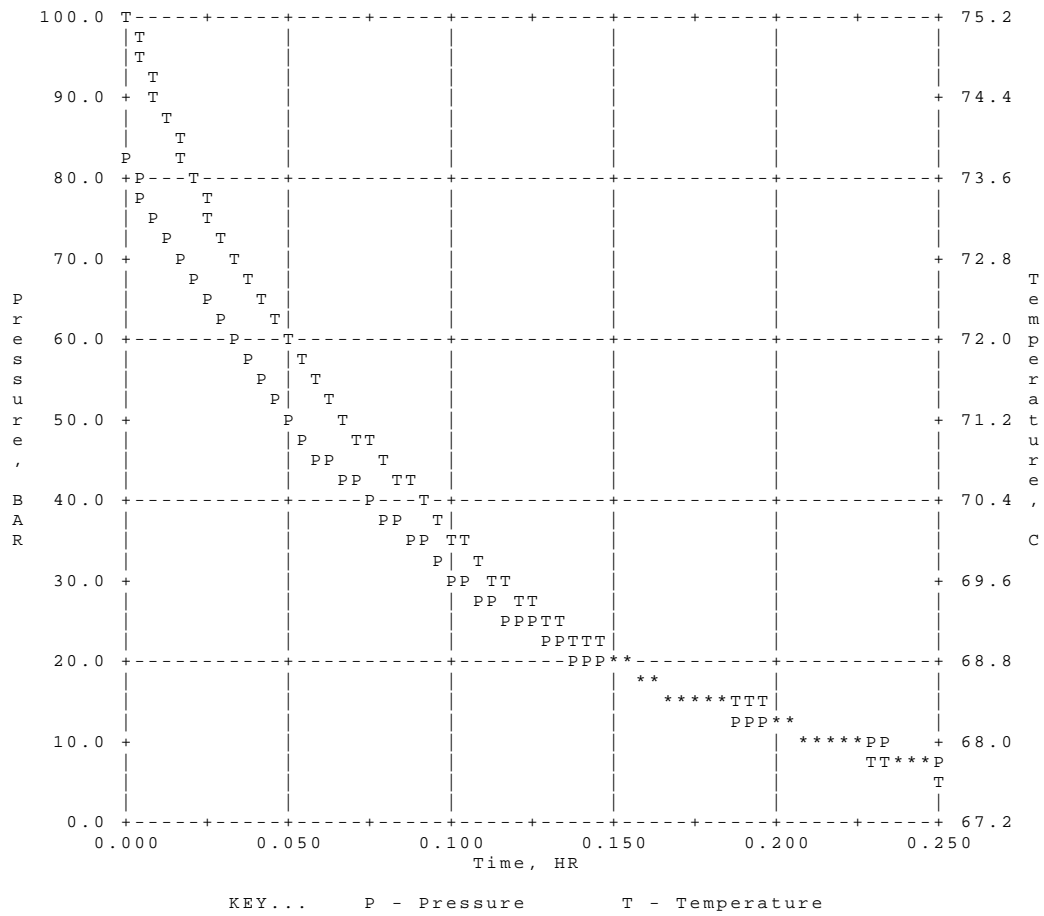
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	75.2	1.002E+05	1399.608
1.0E-02	75.176	74.4	95268.948	1402.958
2.0E-02	68.075	73.7	85884.638	1409.414
3.0E-02	61.635	73.1	77482.175	1414.592
4.0E-02	55.798	72.5	69951.754	1418.570
5.0E-02	50.511	72.0	63198.143	1421.420
6.0E-02	45.725	71.5	57138.002	1423.211
7.0E-02	41.397	71.1	51697.898	1424.004
8.0E-02	37.485	70.7	46812.786	1423.857
9.0E-02	33.951	70.4	42424.821	1422.824
1.0E-01	30.761	70.0	38482.405	1420.953
0.110	27.883	69.8	34939.422	1418.292
0.120	25.287	69.5	31754.589	1414.883
0.130	22.947	69.3	28890.919	1410.767
0.140	20.838	69.0	26315.252	1405.982
0.150	18.938	68.8	23997.853	1400.565
0.160	17.225	68.7	21912.051	1394.549
0.170	15.682	68.5	20033.927	1387.970
0.180	14.292	68.3	18342.035	1380.860
0.190	13.052	68.4	16825.834	1373.196
0.200	11.920	68.2	15458.105	1365.070
0.210	10.900	68.1	14214.919	1356.570
0.220	9.981	68.0	13092.583	1347.671
0.230	9.151	67.8	12078.651	1338.406
0.240	8.402	67.7	11161.987	1328.807
0.250	7.726	67.7	10332.622	1318.908

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

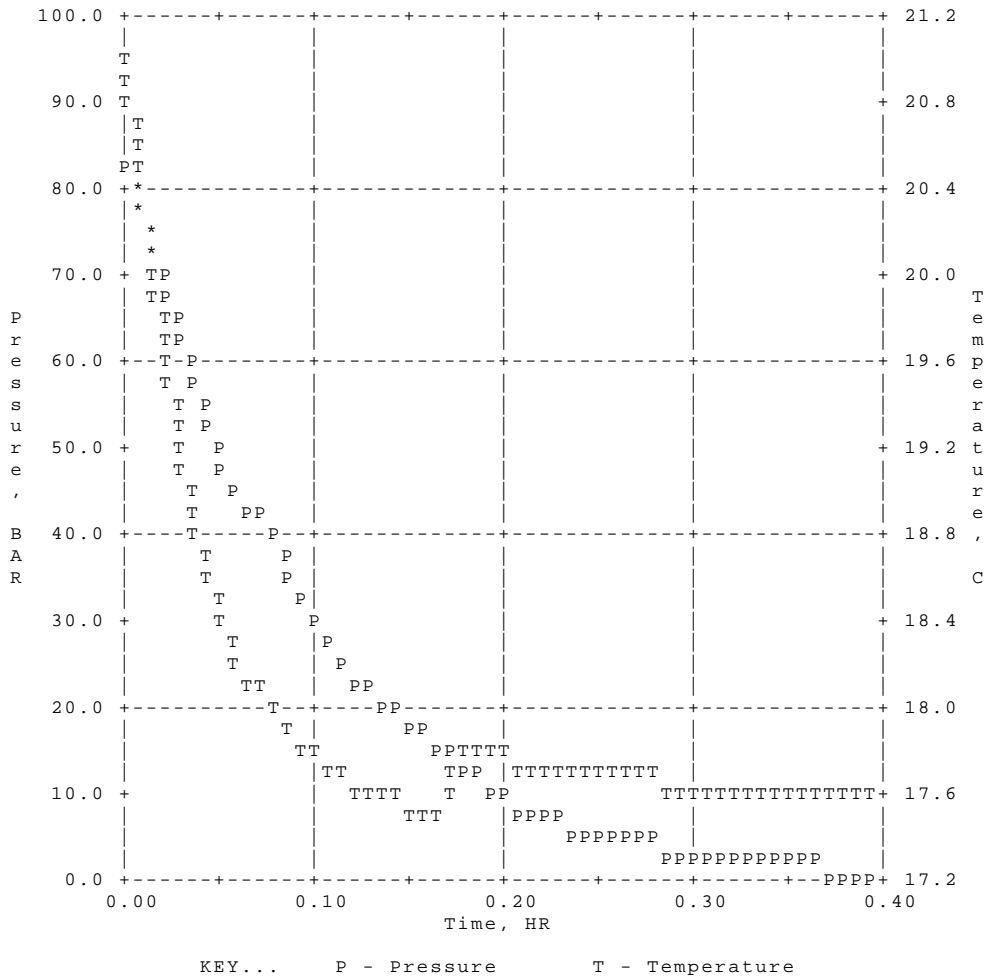
Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	1.043E+05	1344.553
1.5E-02	71.634	20.0	96727.766	1350.859
3.0E-02	61.714	19.2	82572.078	1364.612
4.5E-02	53.024	18.6	70350.988	1378.135
6.0E-02	45.414	18.2	59803.069	1390.897
7.5E-02	38.771	18.0	50716.990	1402.617
9.0E-02	32.996	17.8	42913.442	1413.153
0.105	28.000	17.7	36234.298	1422.453
0.120	23.697	17.6	30535.883	1430.586
0.135	20.009	17.6	25689.282	1437.647
0.150	16.860	17.5	21579.479	1443.724
0.165	14.182	17.5	18103.701	1448.922
0.180	11.923	17.8	15174.393	1453.676
0.195	9.998	17.8	12706.765	1457.764
0.210	8.376	17.7	10628.466	1460.819
0.225	7.011	17.7	8884.667	1463.394
0.240	5.864	17.7	7423.334	1465.562
0.255	4.902	17.7	6199.994	1467.383
0.270	4.097	17.7	5176.796	1468.912
0.285	3.422	17.6	4321.635	1470.195
0.300	2.859	17.6	3607.363	1471.273
0.315	2.387	17.6	3011.082	1472.180
0.330	1.994	17.6	2513.521	1472.946
0.345	1.666	17.6	2098.489	1473.595
0.360	1.392	17.6	1752.402	1474.151
0.375	1.163	17.6	1463.883	1474.631
0.390	0.973	17.6	1223.404	1475.052

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles

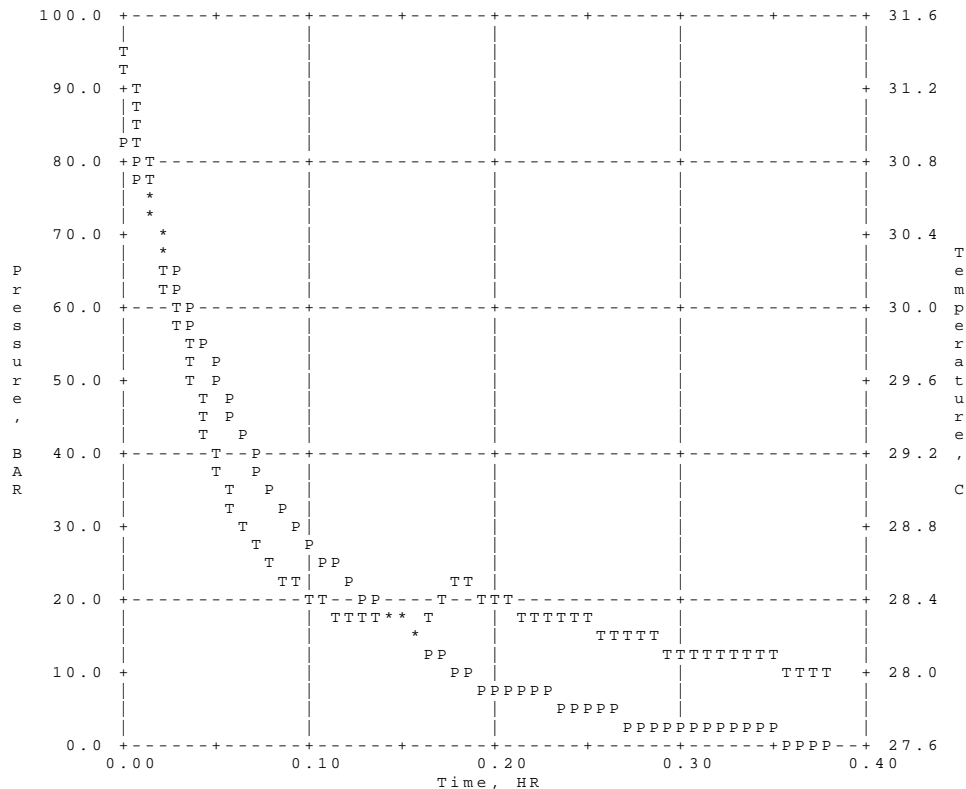


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	31.4	1.010E+05	1388.970
2.0E-02	67.433	30.2	91036.190	1396.321
4.0E-02	54.592	29.4	72989.302	1412.683
6.0E-02	43.981	28.9	58323.308	1428.143
8.0E-02	35.252	28.6	46432.962	1441.913
1.0E-01	28.121	28.4	36836.801	1453.730
0.120	22.339	28.3	29132.400	1463.616
0.140	17.682	28.3	22978.039	1471.738
0.160	13.956	28.2	18084.173	1478.322
0.180	10.999	28.5	14210.540	1483.883
0.200	8.643	28.4	11151.303	1488.380
0.220	6.783	28.3	8739.167	1491.583
0.240	5.319	28.3	6844.575	1494.110
0.260	4.169	28.2	5358.946	1496.098
0.280	3.267	28.2	4195.533	1497.664
0.300	2.561	28.1	3285.394	1498.900
0.320	2.008	28.1	2573.969	1499.884
0.340	1.576	28.1	2018.221	1500.680
0.360	1.239	28.0	1584.294	1501.341
0.380	0.975	28.0	1245.606	1501.911

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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#### 5.5.4      BDV 0032



##### Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
104-D-101	104-R-101	32	VAPOR	0.00	0	478342	56.924	0.00	1.00	0.00	302
104-R-101	104-F-101	35	VAPOR	0.00	0	478155	55.902	0.00	1.00	0.00	314
	104-R-101	35	VAPOR		0		55.902			0.00	3768.913
	Total	Quantity								0.00	4385

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
104-D-101	104-R-101	18	18.00	G03	457.2	120	34.93	387.34	15.25	15	30	0.00	5.303	5.30
104-R-101	104-F-101	18	18.00	G01	457.2	100	29.36	398.48	15.688	15	30	0.00	5.61	5.61
	104-R-101											0.00	67.420	67.420
	Total											0.00	78.335	78.335

##### Wetted area calculation:

In the system there's no liquid phase and therefore no wetted surface.

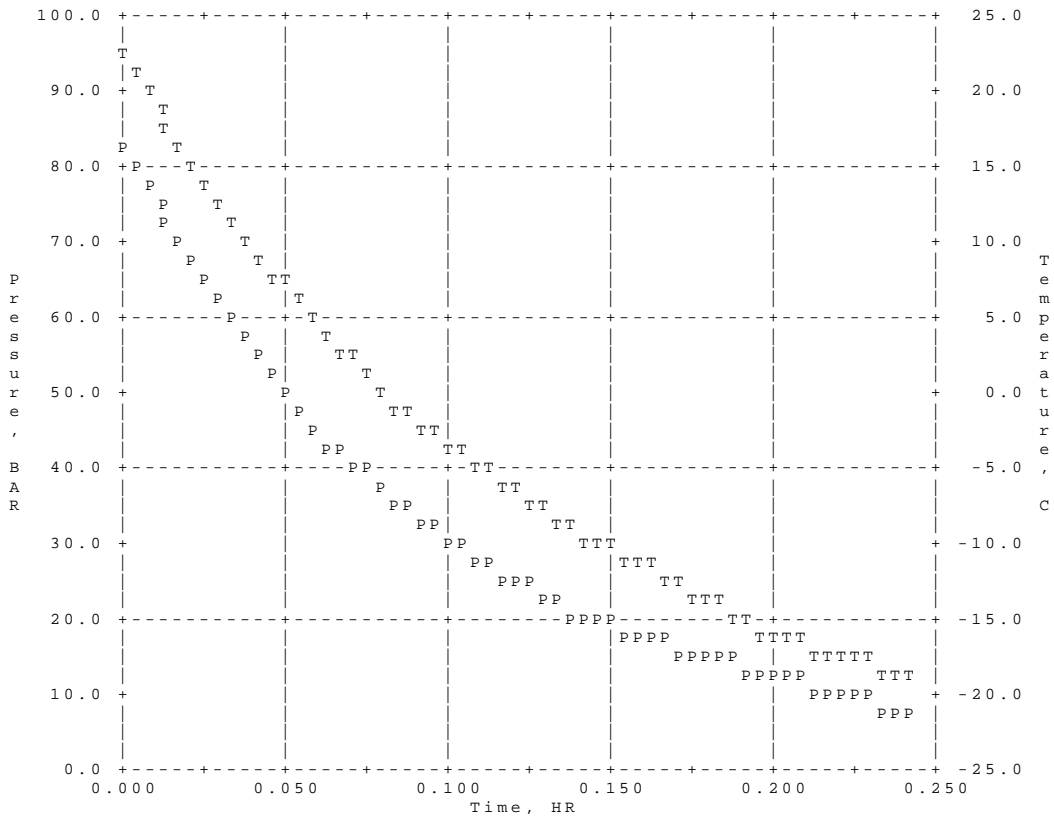
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	22.0	59097.530	769.081
2.0E-02	67.769	15.2	53747.856	768.041
4.0E-02	55.616	9.3	44061.614	766.717
6.0E-02	45.785	4.4	36176.729	767.441
8.0E-02	37.713	1.5E-01	29717.013	769.312
1.0E-01	31.056	-3.5	24413.355	771.257
0.120	25.561	-6.7	20054.076	772.996
0.140	21.023	-9.4	16470.060	774.419
0.160	17.280	-11.8	13523.682	775.486
0.180	14.194	-13.9	11102.252	776.200
0.200	11.653	-15.7	9113.039	776.584
0.220	9.563	-17.3	7479.565	776.668
0.240	7.846	-18.8	6138.720	776.483

Pressure and Temperature Profiles



KEY... P - Pressure T - Temperature



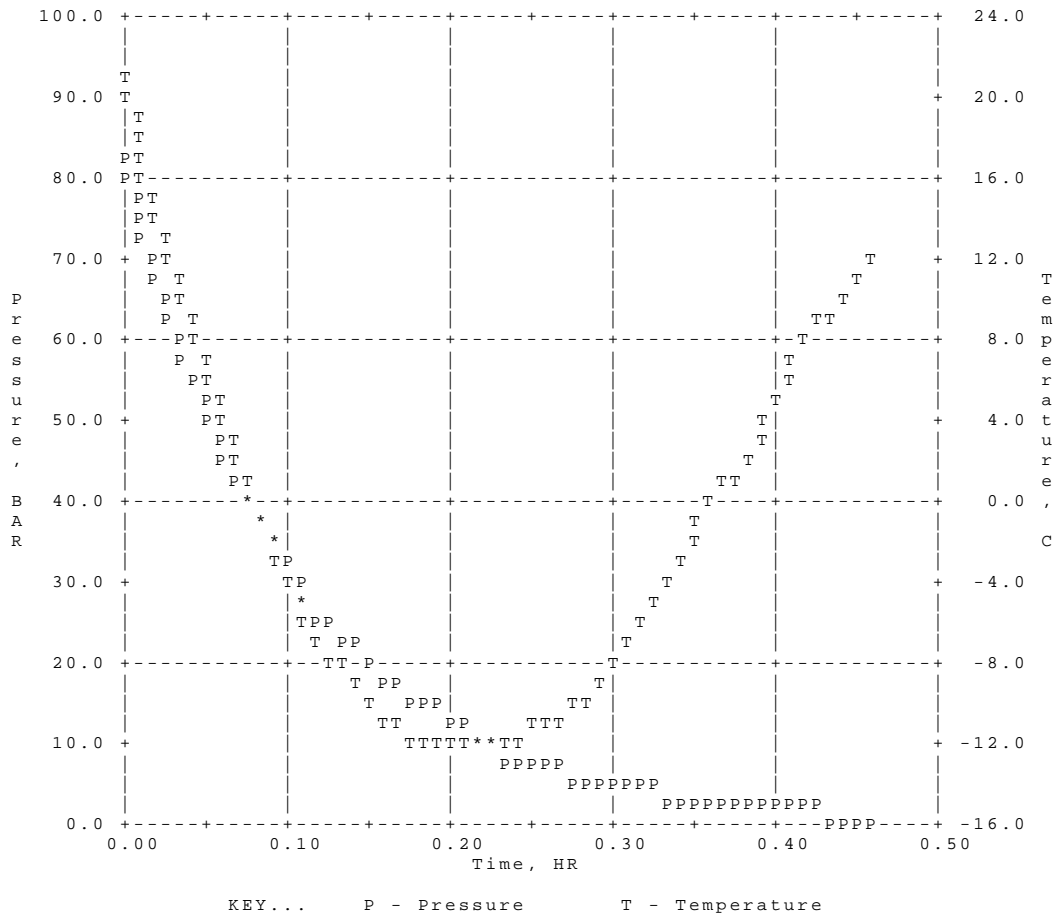
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	59291.614	766.564
2.0E-02	67.807	14.2	53939.015	765.509
4.0E-02	55.708	8.4	44246.716	764.312
6.0E-02	45.917	3.5	36356.131	765.343
8.0E-02	37.879	-5.4E-01	29891.419	767.554
1.0E-01	31.251	-3.9	24582.922	769.956
0.120	25.779	-6.7	20218.551	772.301
0.140	21.260	-8.9	16628.913	774.507
0.160	17.530	-10.5	13676.324	776.575
0.180	14.454	-11.7	11248.078	778.553
0.200	11.919	-12.3	9251.456	780.510
0.220	9.831	-12.4	7610.020	782.516
0.240	8.111	-12.0	6260.713	784.634
0.260	6.695	-11.1	5151.540	786.903
0.280	5.528	-9.8	4239.667	789.335
0.300	4.567	-8.0	3490.060	791.958
0.320	3.775	-5.7	2873.881	794.794
0.340	3.121	-3.1	2366.985	797.697
0.360	2.579	-3.8E-01	1949.613	800.443
0.380	2.131	2.4	1605.961	802.938
0.400	1.758	5.2	1322.730	804.949
0.420	1.449	7.7	1089.026	806.230
0.440	1.192	10.0	896.234	806.834
0.460	0.980	11.9	737.121	806.788

Pressure and Temperature Profiles



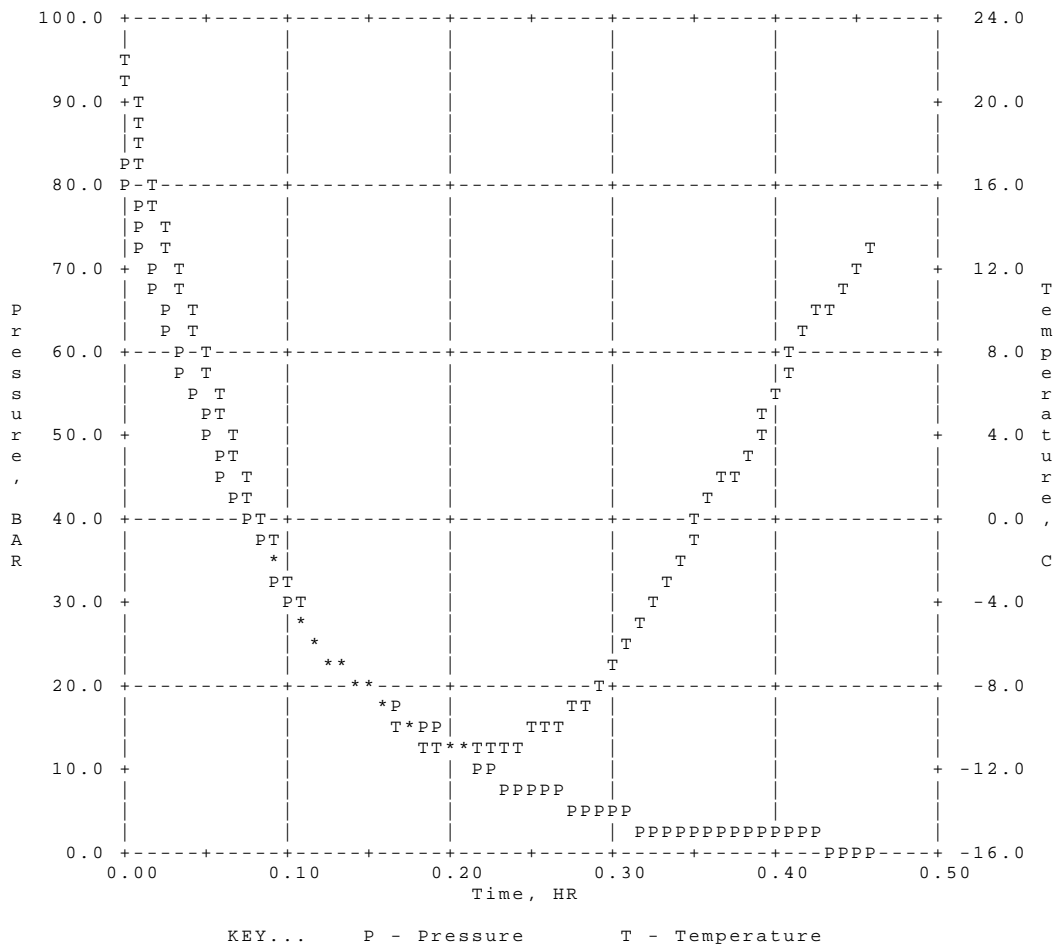
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	22.0	59097.530	769.081
2.0E-02	67.765	15.2	53747.163	768.030
4.0E-02	55.624	9.4	44062.543	766.729
6.0E-02	45.814	4.5	36183.923	767.578
8.0E-02	37.768	4.8E-01	29732.735	769.686
1.0E-01	31.138	-2.9	24438.304	772.003
0.120	25.668	-5.7	20087.914	774.272
0.140	21.155	-7.8	16511.787	776.418
0.160	17.432	-9.5	13571.941	778.442
0.180	14.364	-10.6	11155.487	780.388
0.200	11.837	-11.2	9169.622	782.325
0.220	9.756	-11.3	7537.890	784.321
0.240	8.044	-10.9	6197.265	786.435
0.260	6.635	-10.1	5095.810	788.708
0.280	5.476	-8.7	4191.052	791.220
0.300	4.522	-6.8	3447.785	793.997
0.320	3.735	-4.6	2836.715	796.917
0.340	3.084	-2.0	2334.077	799.847
0.360	2.547	6.8E-01	1920.604	802.701
0.380	2.101	3.4	1580.191	805.260
0.400	1.731	6.1	1299.655	807.273
0.420	1.425	8.6	1068.479	808.711
0.440	1.171	10.8	877.880	809.537
0.460	0.961	12.6	720.685	809.772

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

### 5.5.5      BDV 0042

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
ESDV-0044	104-H-101	S141	MIXED	2.86	613.8	33876	54.982	0.00	1.00	0.00	87
104-H-101	104-R-101	38	VAPOR	0.00	0	33627	24.695	0.00	1.00	0.00	58
	104-H-101		VAPOR		0.00		24.695				239.0476
	Total	Quantity								0.00	384.7

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
ESDV-0044	104-H-101	10	10.75	F01	273.1	60	12.7	247.65	9.75	8	25	0.00	1.590	1.59
104-H-101	104-R-101	12	12.75	G01	323.9	100	21.44	280.97	11.062	8	30	0.00	2.36	2.36
	104-H-101												9.680	
	Total											0.00	13.626	13.626

Wetted area calculation:

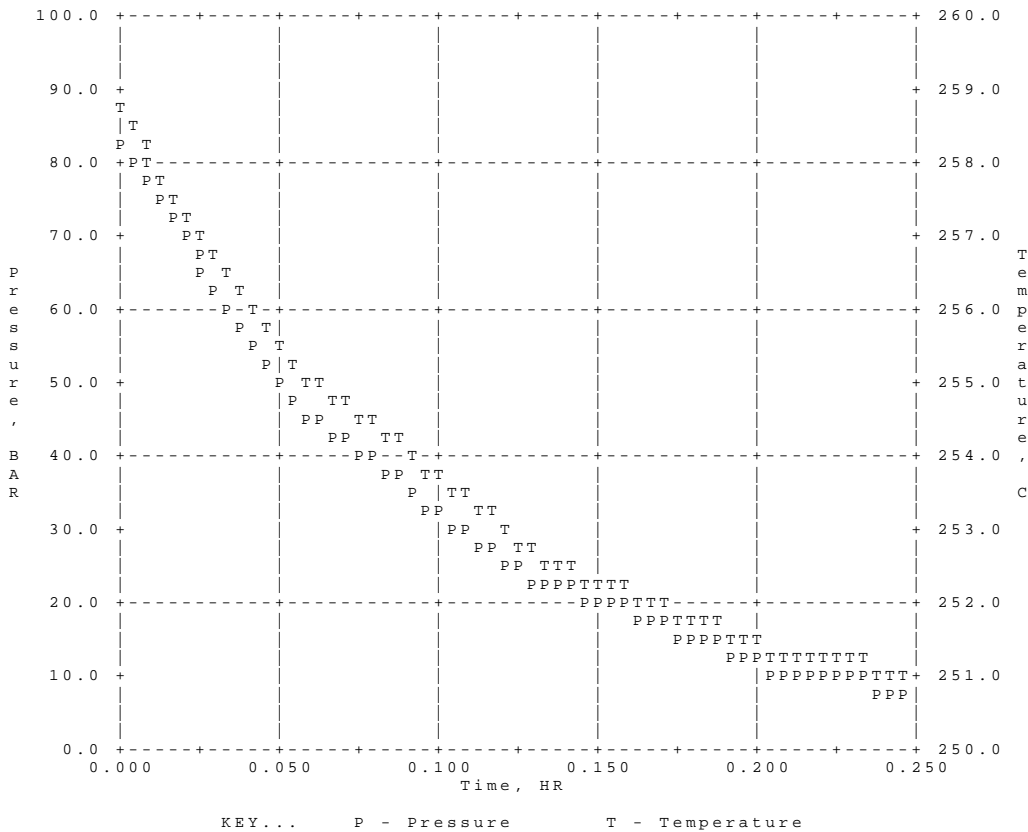
In the system there's no liquid phase and therefore no wetted surface.

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	258.6	4579.065	130.960
1.5E-02	71.577	257.6	4267.702	130.846
3.0E-02	61.788	256.6	3688.376	130.621
4.5E-02	53.379	255.8	3189.480	130.441
6.0E-02	46.143	255.1	2759.294	130.296
7.5E-02	39.908	254.4	2387.979	130.178
9.0E-02	34.530	253.9	2067.221	130.081
0.105	29.885	253.4	1789.960	130.002
0.120	25.872	253.0	1550.176	129.937
0.135	22.403	252.6	1342.718	129.883
0.150	19.403	252.3	1163.169	129.838
0.165	16.806	252.0	1007.733	129.800
0.180	14.559	251.7	873.142	129.769
0.195	12.613	251.5	756.581	129.742
0.210	10.929	251.3	655.619	129.720
0.225	9.470	251.1	568.158	129.701
0.240	8.206	251.0	492.385	129.684
0.247	7.640	250.9	441.445	129.673

Pressure and Temperature Profiles

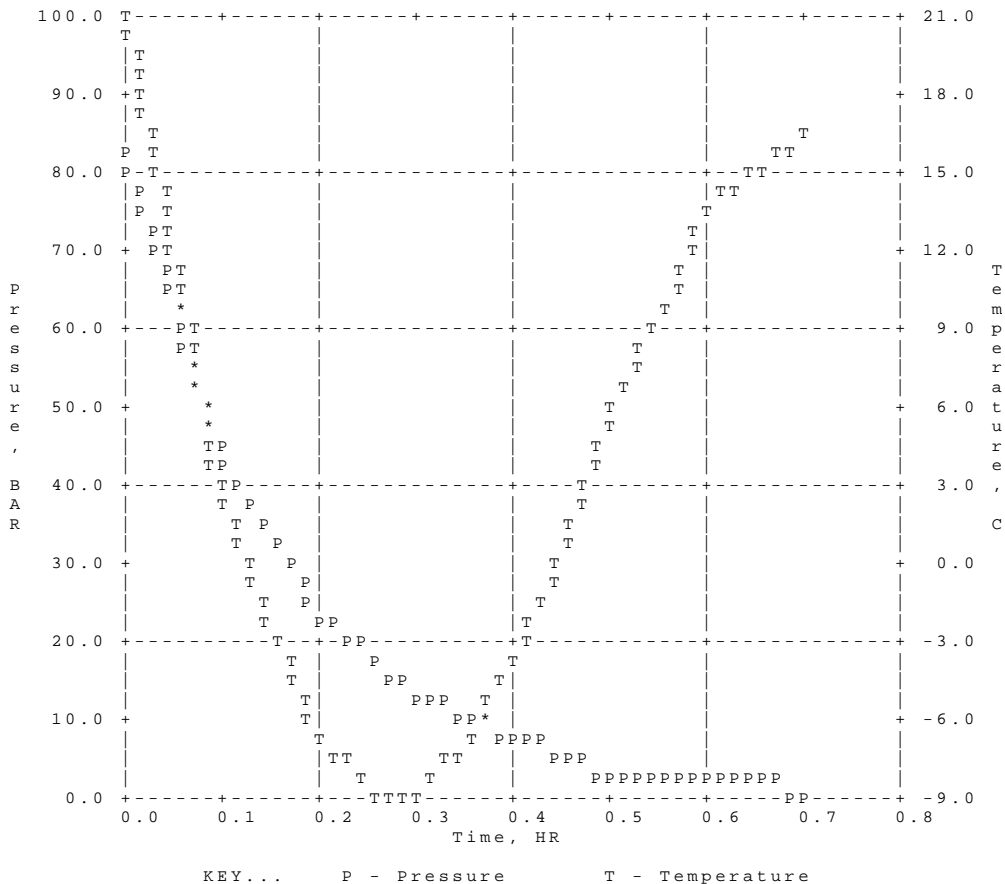


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	6814.468	88.000
5.0E-02	59.526	10.2	5858.600	87.884
1.0E-01	43.200	2.3	4221.906	87.899
0.150	31.439	-3.3	3051.301	88.367
0.200	22.895	-7.0	2207.804	88.903
0.250	16.681	-8.7	1598.347	89.446
0.300	12.164	-8.7	1157.584	90.016
0.350	8.879	-6.8	838.610	90.645
0.400	6.483	-3.5	607.544	91.343
0.450	4.730	9.0E-01	439.925	92.078
0.500	3.441	5.6	318.153	92.772
0.550	2.491	10.0	229.587	93.327
0.600	1.792	13.2	165.158	93.671
0.650	1.281	15.2	118.367	93.793
0.700	0.912	16.2	84.542	93.731

Pressure and Temperature Profiles

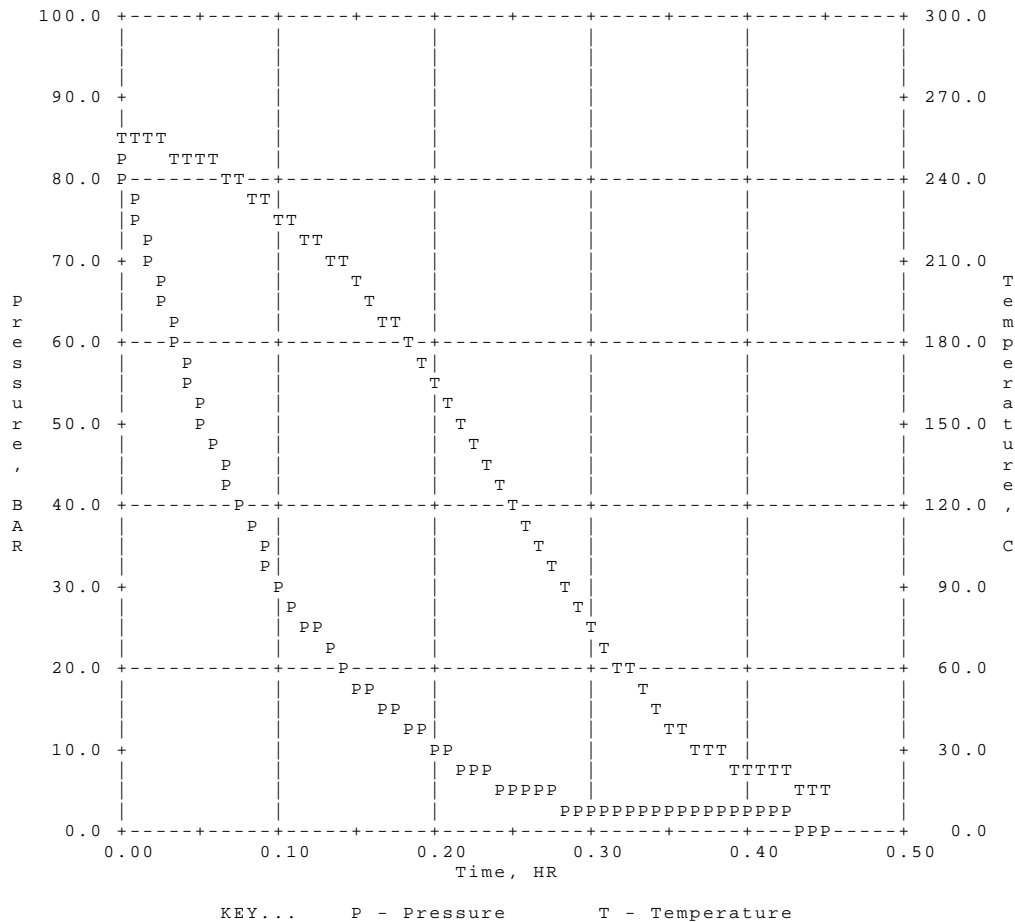


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	83.000	258.6	4579.065	130.960
5.0E-02	49.426	245.1	3674.496	130.192
1.0E-01	29.488	226.9	2226.941	128.014
0.150	17.510	201.3	1355.565	125.246
0.200	10.305	166.3	827.663	121.402
0.250	6.015	122.4	507.455	116.176
0.300	3.529	76.1	314.058	109.783
0.350	2.153	39.5	198.538	103.392
0.400	1.406	21.2	130.128	98.789
0.450	0.968	16.9	88.629	96.770

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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### 5.5.6    BDV 0056

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
104-A-101	104-D-102	39	MIXED	925	983.22	33736	43.493	0.0018	0.9982	1.966	48.930
104-D-102	Unit 109	40	LIQUID	927	983.273	0	0.000	1.0000	0.0000	58.013	0.000
104-D-102	104-K-101A	41	GAS	0	0.00	33736	43.420	0.0000	1.0000	0.000	50.280
104-D-102	104-K-101B	41	GAS	0	0.00	33736	43.420	0.0000	1.0000	0.000	50.280
104-K-101A	104-E-101	42	GAS	0	0.00	33736	47.187	0.0000	1.0000	0.000	83.427
104-K-101B	104-E-101	42	GAS	0	0.00	33736	47.187	0.0000	1.0000	0.000	83.427
104-R-101	104-A-101	S12	GAS	0	0.00	34661	24.405	0.0000	1.0000	0.000	35.656
	104-K-101A/B	42			0.00		47.187			0.000	94.374
	104-A-101	39			983.22		43.493			0.000	54.366
	104-D-102	40/41			983.273		43.420			411.696	101.733
	Total	Quantity								471.676	602.473

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
104-A-101	104-D-102	12	12.74	G48	323.6		20.6	282.4	11.118	8	10	0.002	1.125	1.127
104-D-102	Unit 109	2	2.37	F48	60.3	10S	2.77	54.76	2.156	0	25	0.059	0.000	0.059
104-D-102	104-K-101A	10	10.75	F03	273.1	80.00	15.09	242.87	9.562	0	25	0.000	1.158	1.158
104-D-102	104-K-101B	10	10.75	F03	273.1	80	15.09	242.87	9.562	0	25	0.000	1.158	1.158
104-K-101A	104-E-101	8	8.63	F03	219.1	80	12.7	193.68	7.625	0	60	0.000	1.768	1.768
104-K-101B	104-E-101	8	8.63	F03	219.1	80	12.7	193.68	7.625	0	60	0.000	1.768	1.768
104-R-101	104-A-101	12	12.74	G03	323.6	120.00	25.4	272.8	10.74	0	25	0.000	1.461	1.461
	104-K-101A/B											0.000	2	2.000
	104-A-101											0.000	1.250	1.250
	104-D-102											0.419	2.343	2.762
	Total											0.480	14.031	14.511

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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Wetted area calculation:



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )	(m <sup>2</sup> )
104-A-101	104-D-102	39	MIXED	925	983.22	33736	43.493	15.9690	0.0140	0.583	0.597
104-D-102	Unit 109	40	LIQUID	927	983.273	0	0.000	4.3010	0.0000	4.218	4.218
104-D-102	104-K-101A	41	GAS	0	0.00	33736	43.420	19.0750	0.0000	0.000	0.000
104-D-102	104-K-101B	41	GAS	0	0.00	33736	43.420	19.0750	0.0000	0.000	0.000
104-K-101A	104-E-101	42	GAS	0	0.00	33736	47.187	36.5070	0.0000	0.000	0.000
104-K-101B	104-E-101	42	GAS	0	0.00	33736	47.187	36.5070	0.0000	0.000	0.000
104-R-101	104-A-101	S12	GAS	0	0.00	34661	24.405	21.4250	0.0000	0.000	0.000
	104-K-101A/B	42			0.00		47.187				
	104-A-101	39			983.22		43.493				
	104-D-102	40/41			983.273		43.420	12.09			4.71
	Total	Quantity						164.9490	0.0140	4.801	9.525

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

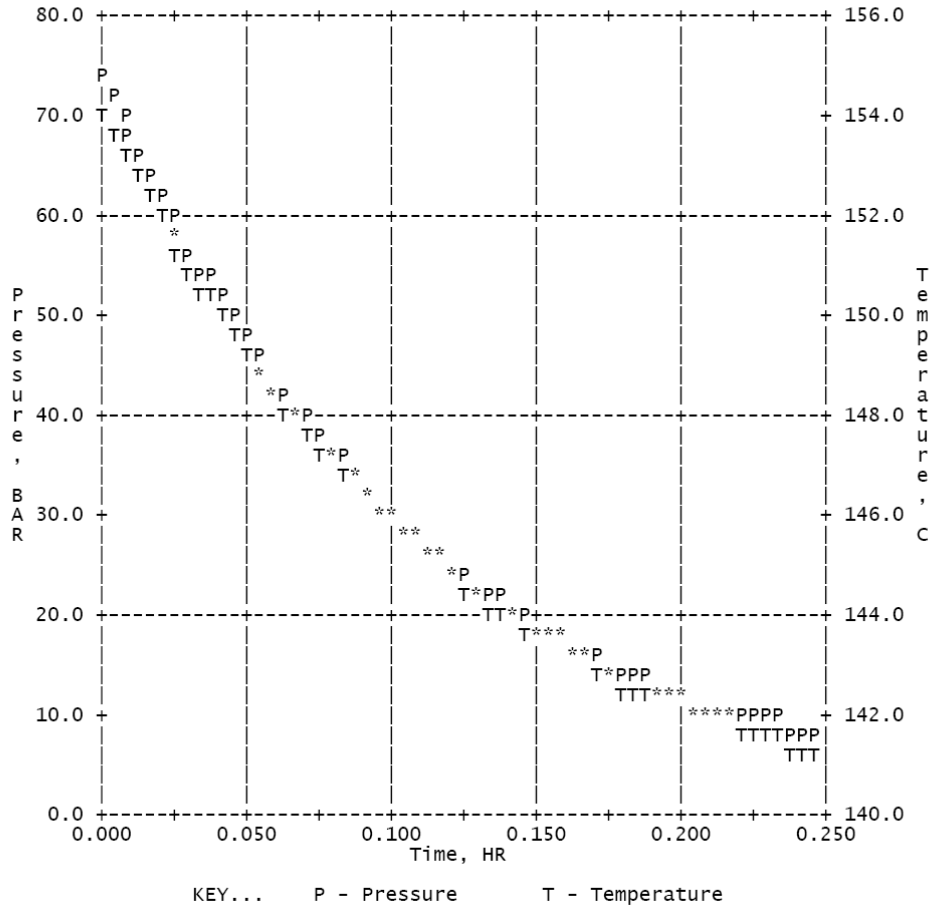
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	74.700	154.0	5320.087	132.113
1.5E-02	64.987	152.3	4977.225	132.033
3.0E-02	56.582	150.8	4336.650	131.882
4.5E-02	49.294	149.5	3780.111	131.767
6.0E-02	42.964	148.3	3296.043	131.681
7.5E-02	37.460	147.2	2874.654	131.617
9.0E-02	32.669	146.3	2507.594	131.568
0.105	28.496	145.5	2187.702	131.531
0.120	24.860	144.7	1908.816	131.504
0.135	21.691	144.1	1665.611	131.483
0.150	18.927	143.5	1453.478	131.468
0.165	16.516	143.0	1268.418	131.457
0.180	14.413	142.6	1106.957	131.449
0.195	12.579	142.2	966.072	131.442
0.210	10.978	141.9	843.133	131.438
0.225	9.581	141.6	735.849	131.435
0.240	8.362	141.3	642.223	131.432
0.247	7.812	141.2	578.926	131.431

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

BDV-104-0056 Fire graph  
Pressure and Temperature Profiles



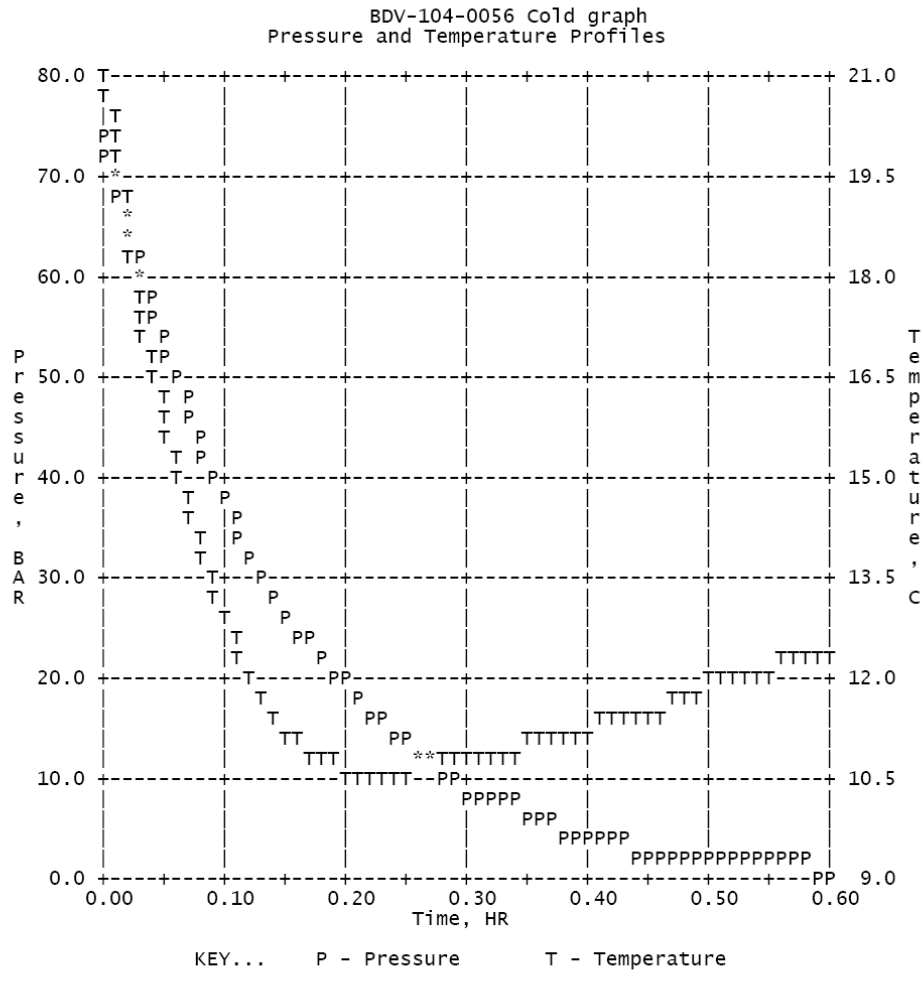
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE ---- M3/HR
0.000	74.700	21.0	6928.023	101.451
3.0E-02	60.865	17.5	6267.307	101.761
6.0E-02	49.620	15.0	5070.677	102.506
9.0E-02	40.392	13.2	4098.082	103.331
0.120	32.793	12.0	3305.603	104.157
0.150	26.544	11.2	2660.626	104.920
0.180	21.420	10.7	2136.872	105.596
0.210	17.236	10.5	1712.652	106.184
0.240	13.833	10.4	1370.016	106.688
0.270	11.086	10.7	1094.151	107.143
0.300	8.857	10.8	872.407	107.539
0.330	7.065	10.9	694.521	107.845
0.360	5.628	11.0	552.367	108.101
0.390	4.479	11.2	438.970	108.315
0.420	3.562	11.4	348.648	108.495
0.450	2.831	11.5	276.795	108.646
0.480	2.249	11.7	219.696	108.774
0.510	1.787	11.9	174.360	108.883
0.540	1.419	12.0	138.389	108.977
0.570	1.128	12.2	109.867	109.059
0.600	0.897	12.4	87.262	109.131

	<p align="center"><b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b></p> <hr/> <p><b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b></p> <hr/> <p><b>Doc. Number : DB-1516-999-P312-212</b></p>	 <p align="center">Pars Oil and Gas Company</p> <hr/> <p><b>Rev. : 3    Class: 2</b></p>
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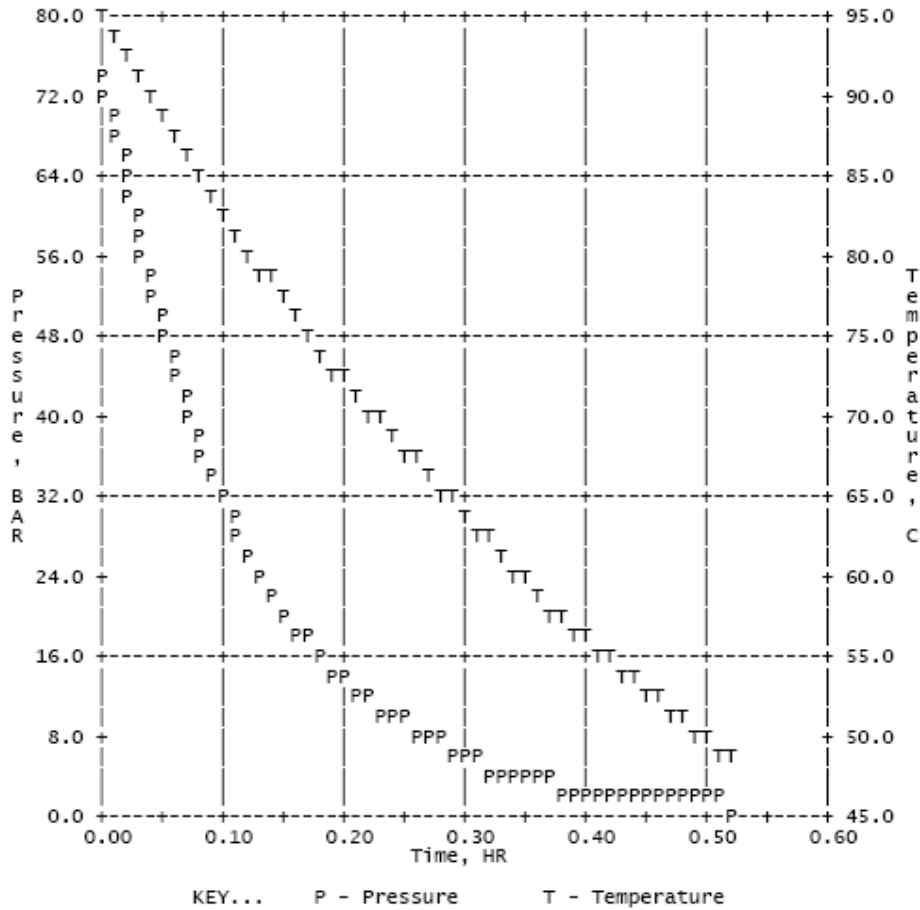
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	74.700	95.3	5832.663	120.503
3.0E-02	57.561	91.0	5166.816	120.426
6.0E-02	44.425	87.1	3989.143	120.274
9.0E-02	34.307	83.6	3082.760	120.150
0.120	26.500	80.3	2383.689	120.012
0.150	20.474	77.2	1844.078	119.839
0.180	15.824	74.2	1427.466	119.629
0.210	12.246	71.6	1106.011	119.398
0.240	9.476	68.8	857.743	119.137
0.270	7.341	66.2	665.768	118.834
0.300	5.696	63.6	517.490	118.518
0.330	4.427	61.2	402.893	118.197
0.360	3.447	58.9	314.256	117.874
0.390	2.691	56.7	245.635	117.555
0.420	2.106	54.7	192.452	117.243
0.450	1.653	52.7	151.186	116.941
0.480	1.301	50.8	119.124	116.651
0.510	1.028	49.0	94.179	116.374
0.525	0.916	48.2	78.730	116.165

BDV-104-0056 Spurious graph  
Pressure and Temperature Profiles





**5.5.7    BDV 0066**

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
104-K-101A/B	104-E-101	42	VAPOR	0.00	0	33736	47.187	0.00	1.00	0.00	110
										0.00	109.6



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
104-K-101A/B	104-E-101	8	8.625	F03	219.1	80	12.7	197.3	7.625	16	60	0.00	2.323	2.32
	Total											0.00	2.323	2.323



Wetted area calculation:

In the system there is no liquid phase and therefore no wetted surface.

Fire case:

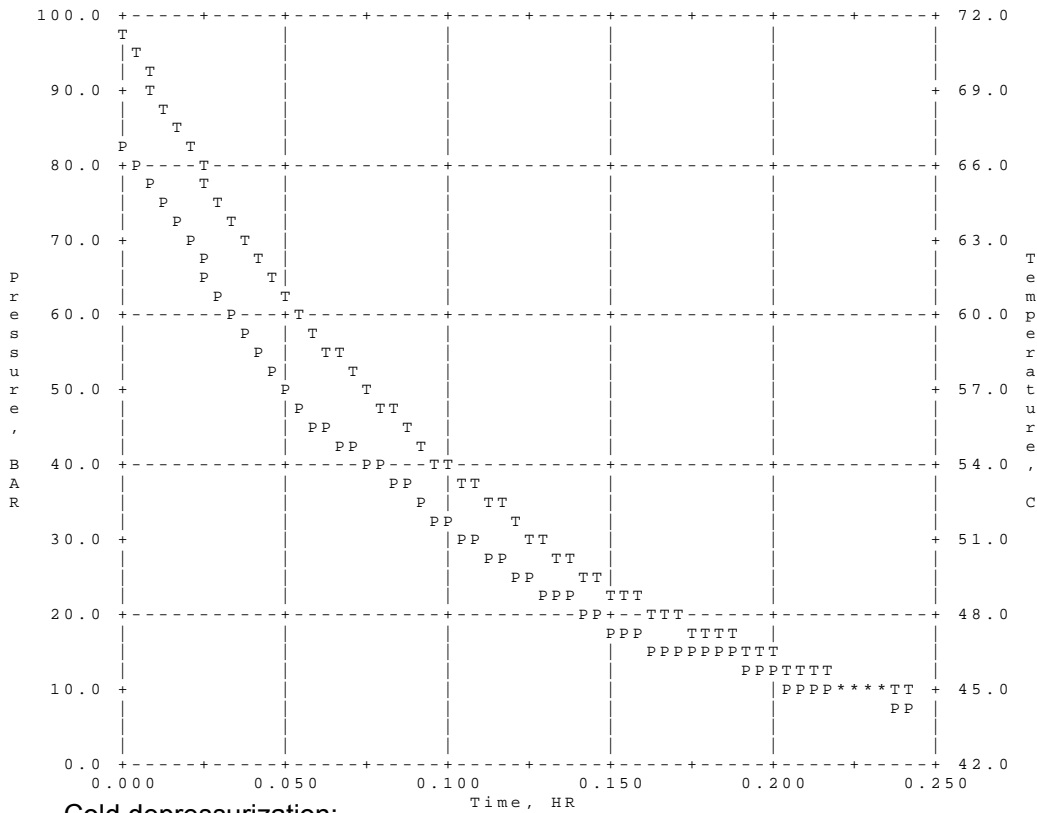
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	---- M3/HR
0.000	83.000	71.4	1369.714	23.042
1.5E-02	71.260	67.8	1273.896	23.023

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		
			<b>Rev. : 3    Class: 2</b>

3.0E-02	61.285	64.6	1096.149	22.990
4.5E-02	52.766	61.7	943.961	22.971
6.0E-02	45.465	59.2	813.327	22.963
7.5E-02	39.192	56.9	700.999	22.961
9.0E-02	33.794	54.9	604.297	22.963
0.105	29.143	53.2	520.984	22.968
0.120	25.134	51.6	449.171	22.974
0.135	21.676	50.3	387.251	22.982
0.150	18.693	49.1	333.855	22.989
0.165	16.119	48.1	287.806	22.996
0.180	13.898	47.2	248.093	23.003
0.195	11.983	46.4	213.846	23.010
0.210	10.330	45.7	184.315	23.016
0.225	8.905	45.2	158.852	23.021
0.240	7.675	44.7	136.899	23.026

Pressure and Temperature Profiles



**Cold depressurization:**

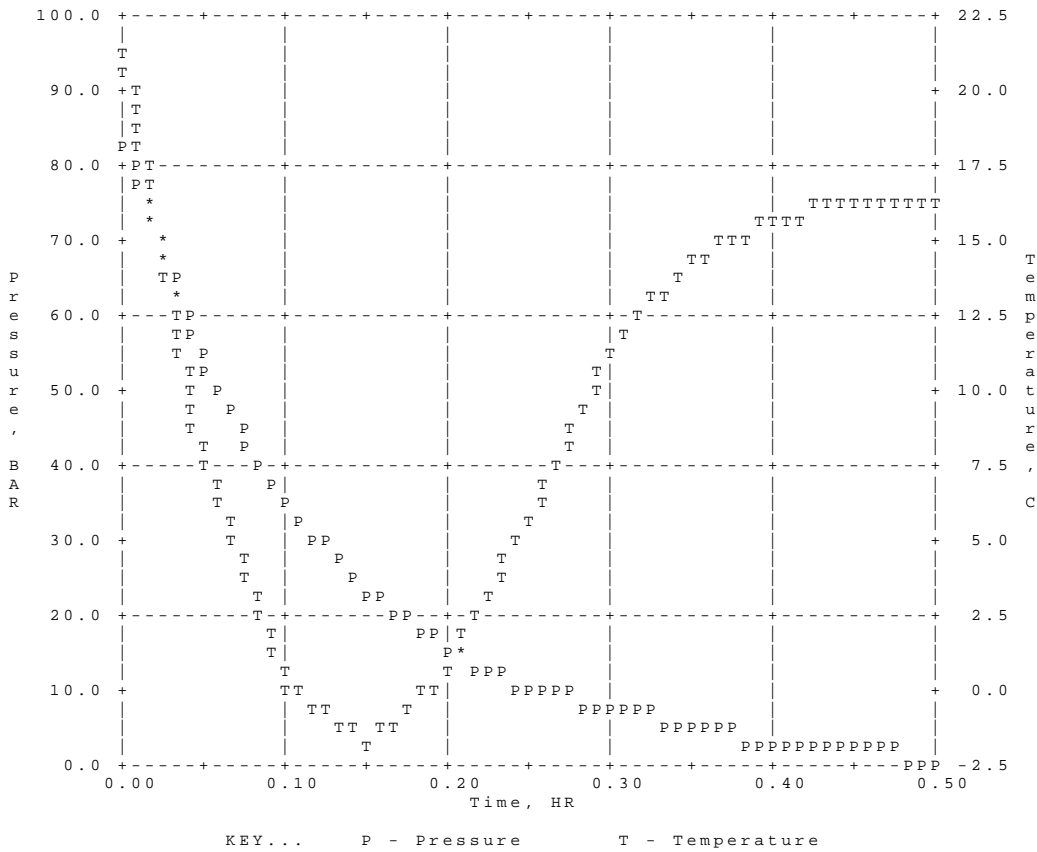
KEY... P - Pressure      T - Temperature

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	1562.386	20.200

5.0E-02	53.113	7.4	1281.727	20.190
1.0E-01	34.699	1.9E-03	823.997	20.261
0.150	22.822	-2.1	533.191	20.511
0.200	15.033	5.1E-01	345.642	20.823
0.250	9.848	5.9	223.500	21.166
0.300	6.363	11.3	143.481	21.481
0.350	4.043	14.5	91.161	21.703
0.400	2.539	15.6	57.365	21.814
0.450	1.586	15.9	35.873	21.861
0.500	0.991	16.0	22.382	21.895



Pressure and Temperature Profiles



Spurious depressurization:

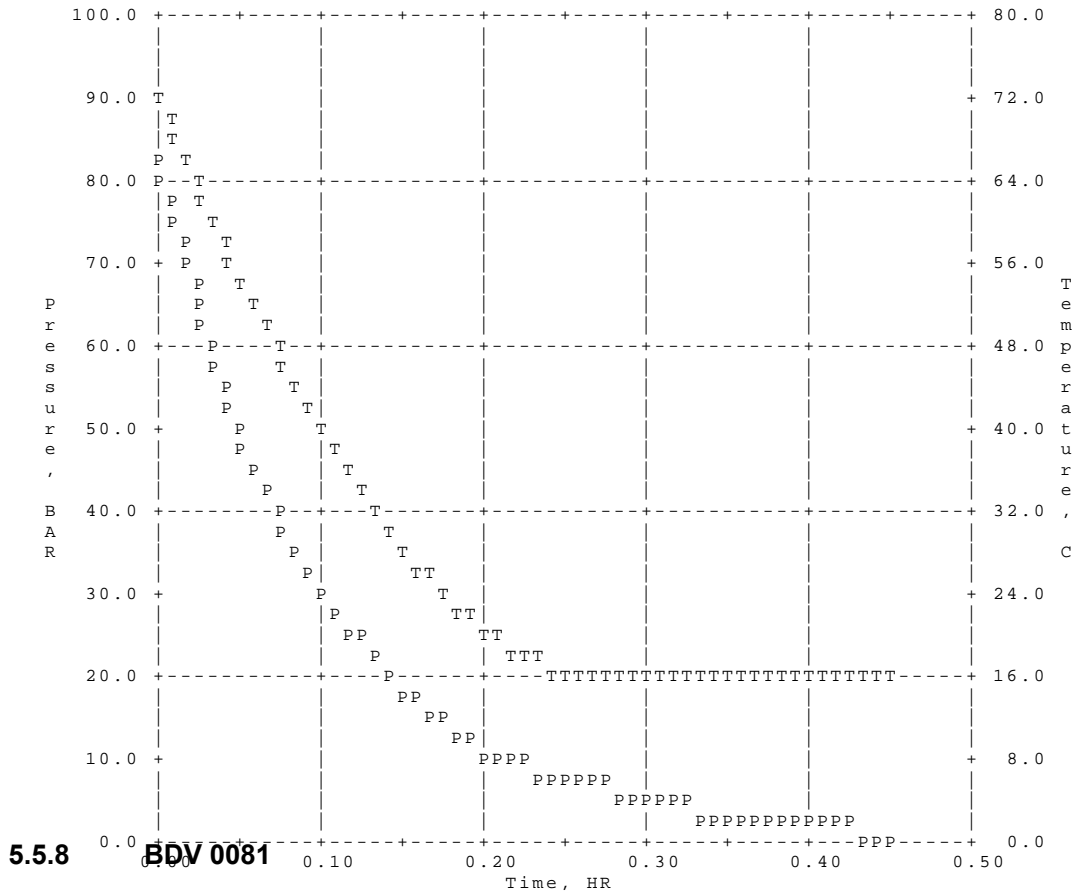
\*\*\* DEPRESSURING SUMMARY

TIME	PRES	TEMP	---- VENT RATE ----
HR	BAR	C	KG/HR    M3/HR
-----	-----	-----	-----

	<h3>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</h3>	
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	<b>Pars Oil and Gas Company</b>
	<b>Doc. Number : DB-1516-999-P312-212</b>	<b>Rev. : 3    Class: 2</b>

0.000	83.000	71.4	1369.714	23.042
5.0E-02	48.600	54.1	1092.264	22.907
1.0E-01	28.861	39.8	652.294	22.578
0.150	17.291	28.0	393.266	22.313
0.200	10.486	19.9	239.013	22.096
0.250	6.451	16.1	146.556	21.972
0.300	4.007	15.4	90.558	21.958
0.350	2.494	15.8	56.175	22.004
0.400	1.551	15.9	34.873	22.050
0.450	0.966	16.0	21.668	22.077

Pressure and Temperature Profiles



5.5.8 BDV 0081

Volume calculation. KEY... P - Pressure T - Temperature

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
104-R-101	104-F-101	35	VAPOR	0.00	0.00	478155	55.902	0.00	1.00	0.00	198
104-F-101	SDV-0086	36	VAPOR	0.00	0.00	444528	55.379	0.00	1.00	0.00	457
104-F-101	104-D-102	37	GAS	0	0.00	33627	55.379	0.0000	1.0000	0.000	46.039
104-F-101A/B			VAPOR				55.379			0.00	393
	Total	Quantity								0.00	1087

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
104-R-101	104-F-101	24	24.00	F01	609.6	80	30.96	547.68	21.562		15	0.00	3.534	3.53
104-F-101	SDV-0086	24	24.00	F01	609.6	80	30.96	547.68	21.562		35	0.00	8.245	8.25
104-F-101	104-D-102	10	10.75	F01	273.1	60	12.7	247.65	9.75	0	15	0.000	0.723	0.723
104-F-101A/B												0.00	7.1	7.1
Total												0.00	19.602	19.602

Wetted area calculation:

In the system there is no liquid phase and therefore no wetted surface.

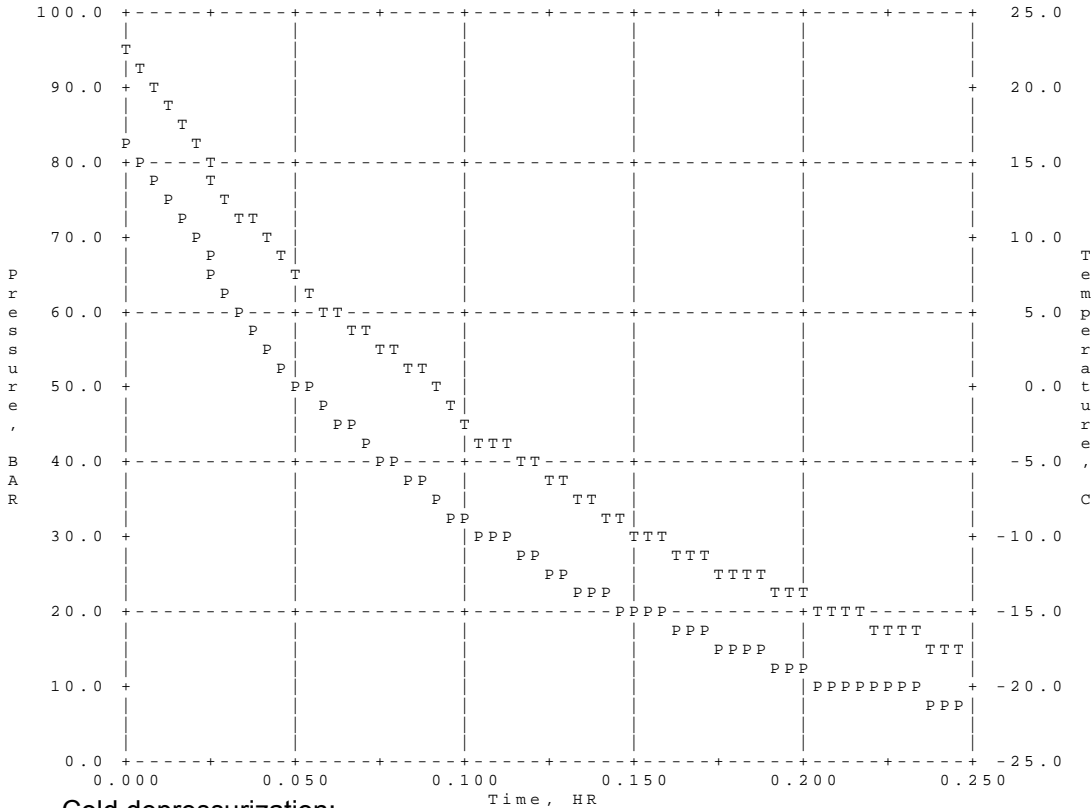
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	22.7	14343.830	187.481
1.5E-02	71.552	17.7	13369.704	187.270
3.0E-02	61.859	13.1	11562.047	186.927
4.5E-02	53.606	9.1	10010.201	186.862
6.0E-02	46.514	5.5	8670.822	187.057

7.5E-02	40.375	2.3	7512.260	187.375
9.0E-02	35.047	-5.8E-01	6509.080	187.714
0.105	30.416	-3.2	5639.770	188.040
0.120	26.389	-5.5	4886.175	188.337
0.135	22.887	-7.6	4232.811	188.594
0.150	19.843	-9.4	3666.370	188.807
0.165	17.198	-11.1	3175.358	188.976
0.180	14.900	-12.7	2749.815	189.101
0.195	12.906	-14.0	2381.092	189.184
0.210	11.176	-15.3	2061.675	189.229
0.225	9.676	-16.4	1785.031	189.239
0.240	8.375	-17.5	1545.478	189.215
0.247	7.792	-18.0	1384.513	189.178

Pressure and Temperature Profiles





**Cold depressurization:**

KEY...    P - Pressure    T - Temperature

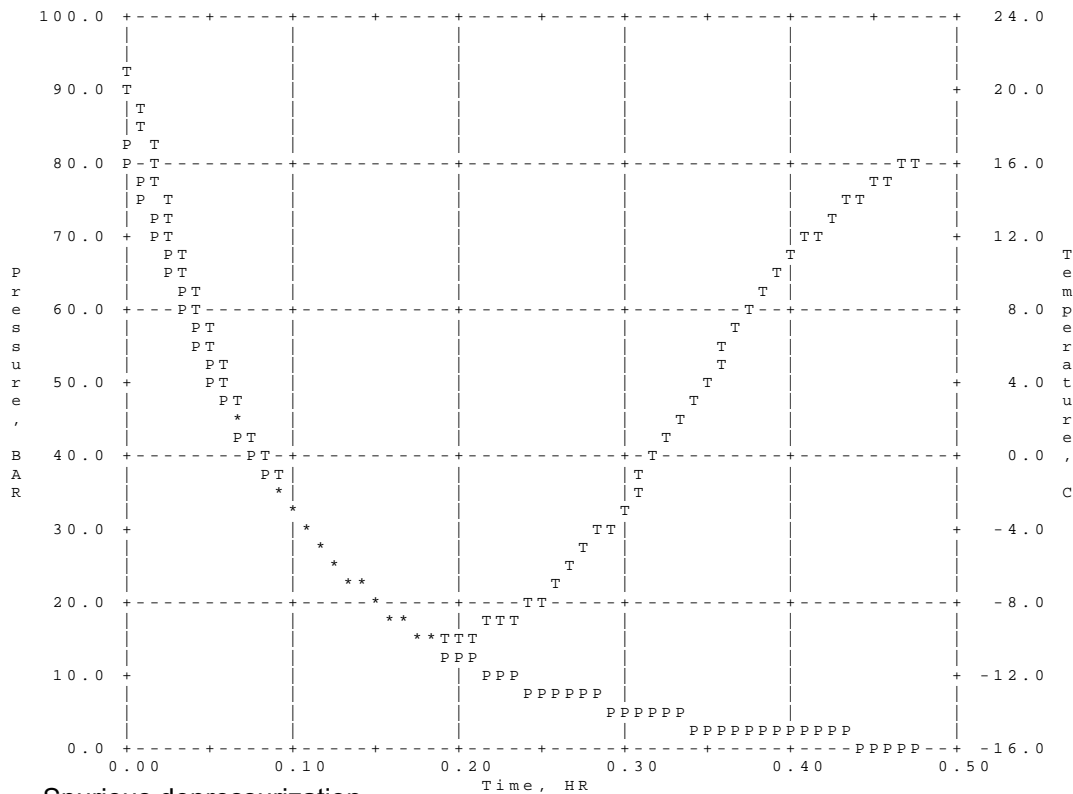
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	--- VENT RATE --- KG/HR	--- M3/HR ---
0.000	83.000	21.0	14422.967	186.453
2.5E-02	64.943	12.8	12873.199	186.176
5.0E-02	51.218	6.2	10119.446	185.959
7.5E-02	40.526	8.8E-01	7971.418	186.447
1.0E-01	32.094	-3.3	6284.576	187.195
0.125	25.420	-6.4	4956.511	187.979

	<h3>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</h3>	
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	<b>Pars Oil and Gas Company</b>
	<b>Doc. Number : DB-1516-999-P312-212</b>	<b>Rev. : 3    Class: 2</b>

0.150	20.134	-8.5	3909.721	188.755
0.175	15.951	-9.7	3084.347	189.530
0.200	12.641	-9.9	2433.502	190.333
0.225	10.022	-9.3	1920.231	191.195
0.250	7.950	-7.8	1515.354	192.139
0.275	6.309	-5.5	1195.835	193.167
0.300	5.005	-2.5	943.524	194.254
0.325	3.968	8.1E-01	744.144	195.346
0.350	3.141	4.3	586.483	196.365
0.375	2.481	7.7	461.740	197.231
0.400	1.953	10.6	363.009	197.881
0.425	1.533	13.0	284.876	198.290
0.450	1.200	14.6	223.110	198.464
0.475	0.936	15.7	174.394	198.438

Pressure and Temperature Profiles





**Spurious depressurization**

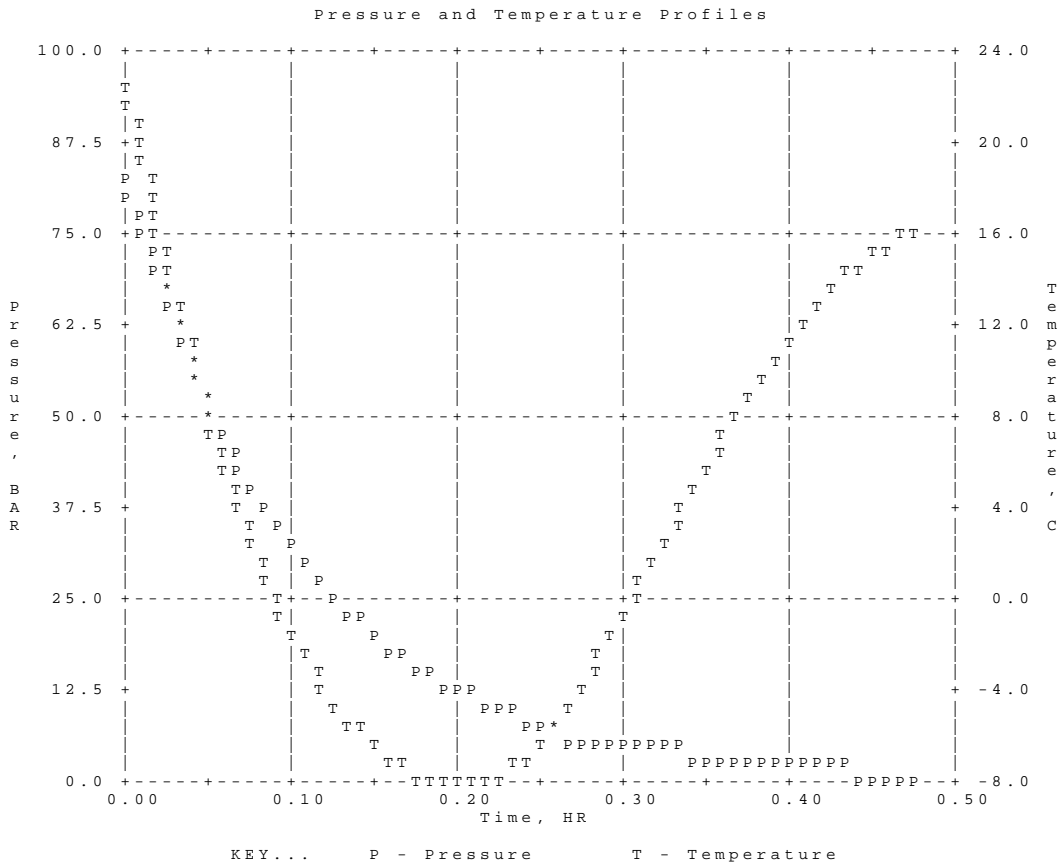
KEY... P - Pressure      T - Temperature

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	--- VENT RATE --- KG/HR	M3/HR
0.000	83.000	22.7	14343.830	187.481
2.5E-02	64.857	14.5	12795.109	187.203
5.0E-02	51.061	7.9	10045.461	186.937
7.5E-02	40.339	2.6	7903.744	187.339
1.0E-01	31.898	-1.5	6223.592	188.034
0.125	25.228	-4.7	4902.367	188.776

	<h3>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</h3>	
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

0.150	19.954	-6.8	3862.193	189.518
0.175	15.785	-8.0	3042.980	190.267
0.200	12.492	-8.3	2397.726	191.051
0.225	9.890	-7.6	1889.437	191.899
0.250	7.833	-6.2	1488.941	192.832
0.275	6.206	-3.9	1173.238	193.853
0.300	4.915	-1.1	924.226	194.937
0.325	3.890	2.2	727.678	196.030
0.350	3.073	5.6	572.432	197.059
0.375	2.422	8.8	449.738	197.951
0.400	1.903	11.5	352.742	198.647
0.425	1.490	13.7	276.094	199.118
0.450	1.163	15.2	215.622	199.365
0.475	0.905	16.3	167.959	199.520



**5.5.9    BDV 0084:**

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
MOV-0083	SDV 0001	51	VAPOR	0.00	0	444528	52.525	0.00	1.00	0.00	408
	BY PASS	51	VAPOR	0.00	0	444528	52.525	0.00	1.00	0.00	154
	Total	Quantity								0.00	562.5





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
MOV-0083	SDV 0001	24	24.000	F21	609.6	80	30.96	547.68	21.562	8	25	0.00	7.774	7.774
	BY PASS	20	20.000	F21	508.0	80	26.19	455.62	17.938	8	10	0.00	2.935	2.935
	Total											0.00	10.709	10.709

Wetted area calculation:

In the system there is not liquid phase and therefore no wetted surface.

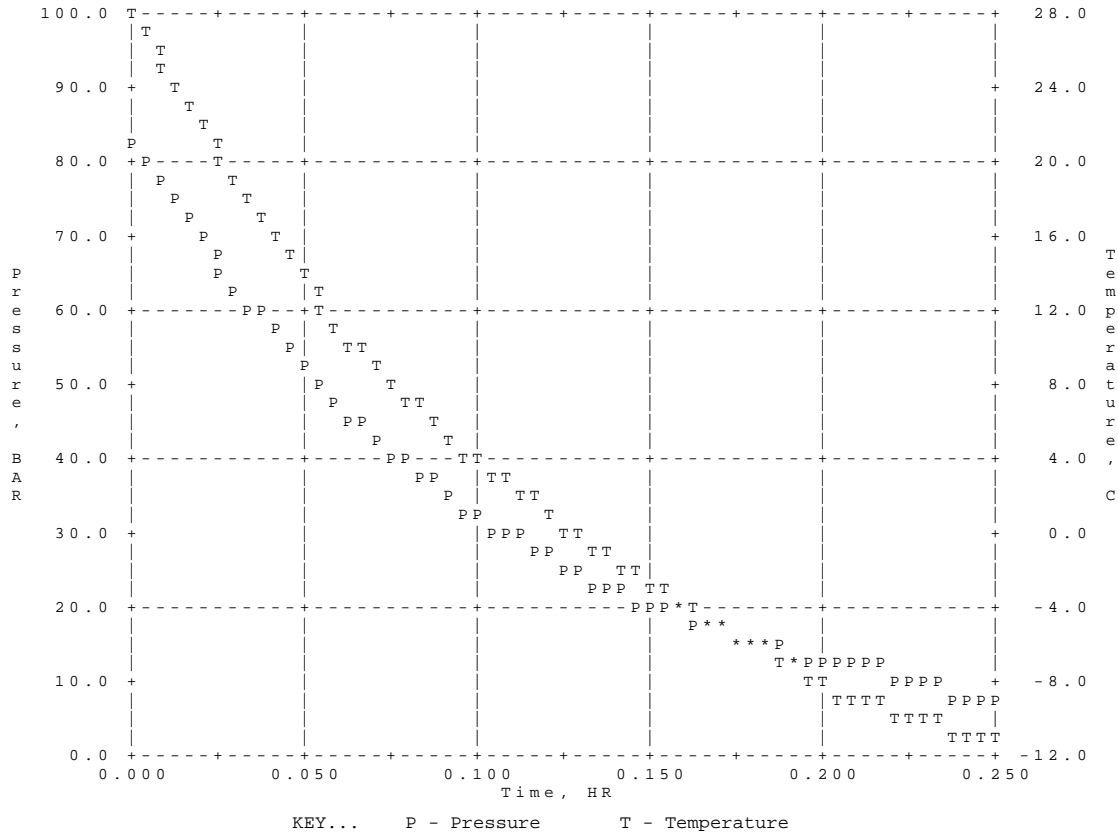
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR      M3/HR
0.000	83.000	27.7	7530.409      101.579
1.5E-02	71.661	22.9	7023.389      101.472
3.0E-02	62.031	18.6	6081.597      101.297
4.5E-02	53.785	14.6	5272.276      101.224
6.0E-02	46.701	11.1	4573.517      101.244
7.5E-02	40.577	8.0	3968.202      101.351
9.0E-02	35.261	5.2	3443.228      101.493

0.105	30.638	2.8	2987.702	101.637
0.120	26.615	5.3E-01	2592.276	101.772
0.135	23.114	-1.5	2248.965	101.892
0.150	20.068	-3.2	1950.897	101.996
0.165	17.418	-4.9	1692.134	102.082
0.180	15.114	-6.3	1467.529	102.150
0.195	13.111	-7.6	1272.607	102.202
0.210	11.371	-8.7	1103.481	102.237
0.225	9.861	-9.8	956.765	102.258
0.240	8.549	-10.7	829.513	102.266
0.250	7.773	-11.3	735.464	102.263

Pressure and Temperature Profiles



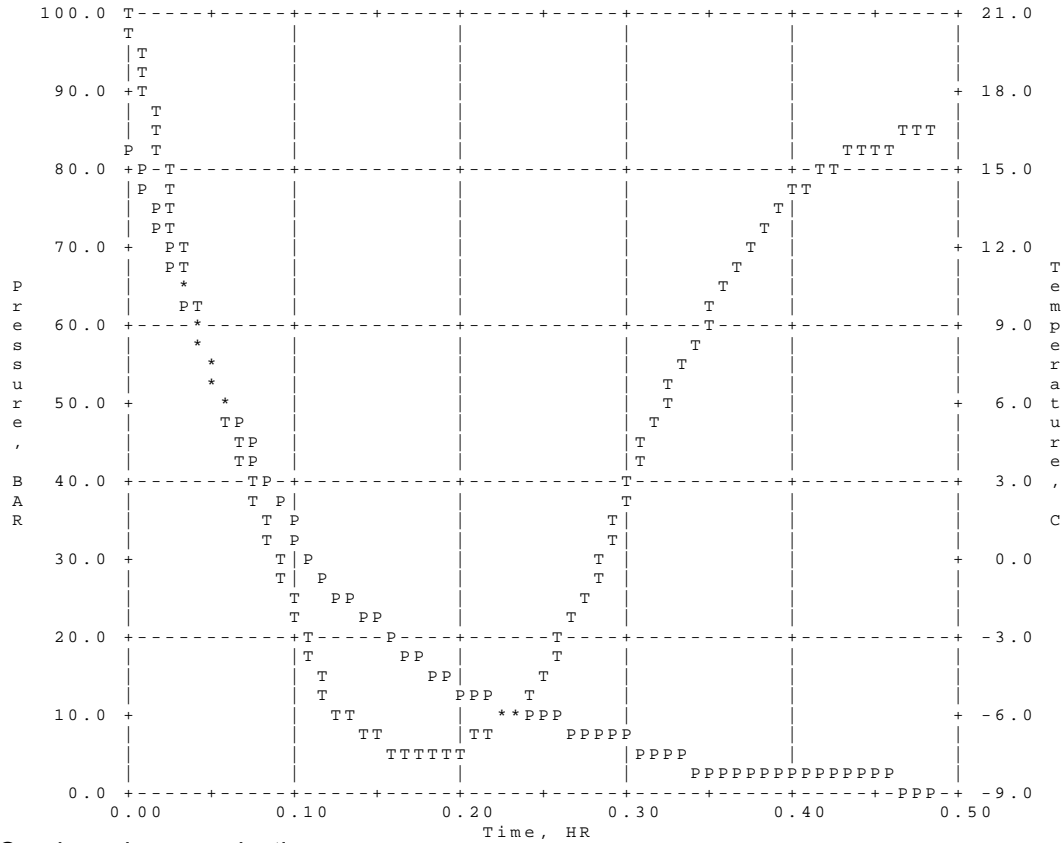
**Cold depressurization:**

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	7692.249	99.441
4.0E-02	56.627	8.8	6477.893	99.323
8.0E-02	39.180	3.9E-01	4441.585	99.396
0.120	27.193	-5.0	3056.664	100.059

0.160	18.896	-7.6	2106.564	100.818
0.200	13.147	-7.6	1452.767	101.638
0.240	9.157	-5.1	1002.118	102.562
0.280	6.376	-6.2E-01	690.903	103.598
0.320	4.424	4.9	475.491	104.666
0.360	3.049	10.1	326.102	105.603
0.400	2.081	14.0	222.472	106.255
0.440	1.407	15.9	150.827	106.563
0.480	0.945	16.8	101.608	106.657

Pressure and Temperature Profiles




**Spurious depressurization:**

KEY... P - Pressure      T - Temperature

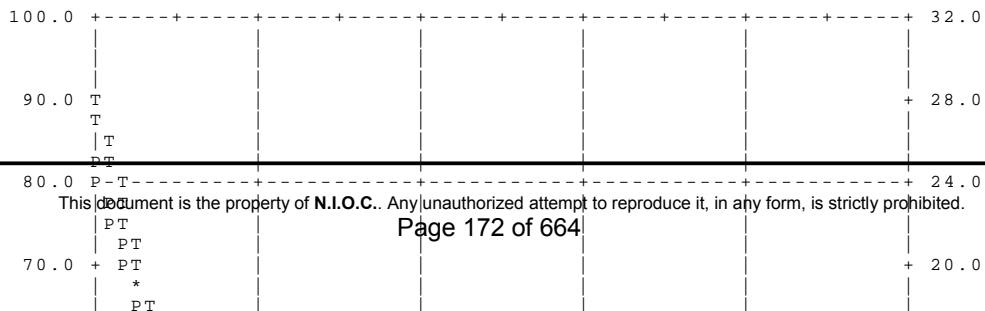
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	27.7	7530.409	101.579
2.5E-02	64.973	19.8	6722.946	101.422
5.0E-02	51.195	13.2	5289.316	101.204
7.5E-02	40.508	8.1	4171.594	101.297
1.0E-01	32.099	4.1	3293.019	101.601

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b> Pars Oil and Gas Company
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0.125	25.453	1.3	2600.798	101.969
0.150	20.192	-5.3E-01	2054.612	102.371
0.175	16.026	-1.3	1623.310	102.811
0.200	12.725	-1.1	1282.529	103.299
0.225	10.106	-5.6E-03	1013.104	103.842
0.250	8.025	1.9	799.933	104.440
0.275	6.367	4.4	631.118	105.080
0.300	5.044	7.2	497.308	105.734
0.325	3.985	10.0	391.174	106.364
0.350	3.138	12.6	306.995	106.926
0.375	2.462	14.7	240.226	107.423
0.400	1.923	16.0	187.373	107.835
0.425	1.497	16.6	145.786	108.093
0.450	1.163	16.9	113.247	108.230
0.475	0.903	16.9	87.893	108.300

Pressure and Temperature Profiles



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	<b>Doc. Number : DB-1516-999-P312-212</b>	

**5.5.10    BDV 0085:**

Volume calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
104-F-101	104-E-103	36	VAPOR	0.0000	0.000	444528.0000	55.379	0.0000	1.0000	0	732
104-E-103	104-R-102	104 8	VAPOR	0.0000	0.000	444528.0000	53.478	0.0000	1.0000	0	252
104-F-102	105-E-101	51	VAPOR	0.0000	0.000	444528.0000	52.525	0.0000	1.0000	0	620
Line104039	Line10463	36	VAPOR	0.0000	0.000	444528.0000	55.379	0.0000	1.0000	0	596
104-F-102		51	VAPOR				52.525			0	4089
104-R-102		51	VAPOR		0.000		52.525			0	7291
104-E-103		104 8	VAPOR		0.000		53.478			0	17



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
104-F-101	104-E-103	24	24.02	F21	610	80	30.96	548.08	21.578	16	40	0.00	13.212	13.212
104-E-103	104-R-102	24	24.02	F21	610	80	30.96	548.08	21.578	0	20	0.00	4.719	4.719
104-R-102	104-F-102	24	24.02	F21	610	80	30.96	548.08	21.578	16	34	0.00	11.796	11.796
Line10039	Line10063	20	20.00	F21	508	80	26.19	455.62	17.938	16	50	0.00	10.761	10.761
104-F-102												0.00	76.900	76.9
104-R-102												0.000	138.810	138.810
104-E-103												0.00	0.324	0.324
	<b>TOTAL</b>											0	256.522	256.522

Wetted area calculation:

In the system there is no liquid phase and therefore no wetted surface.

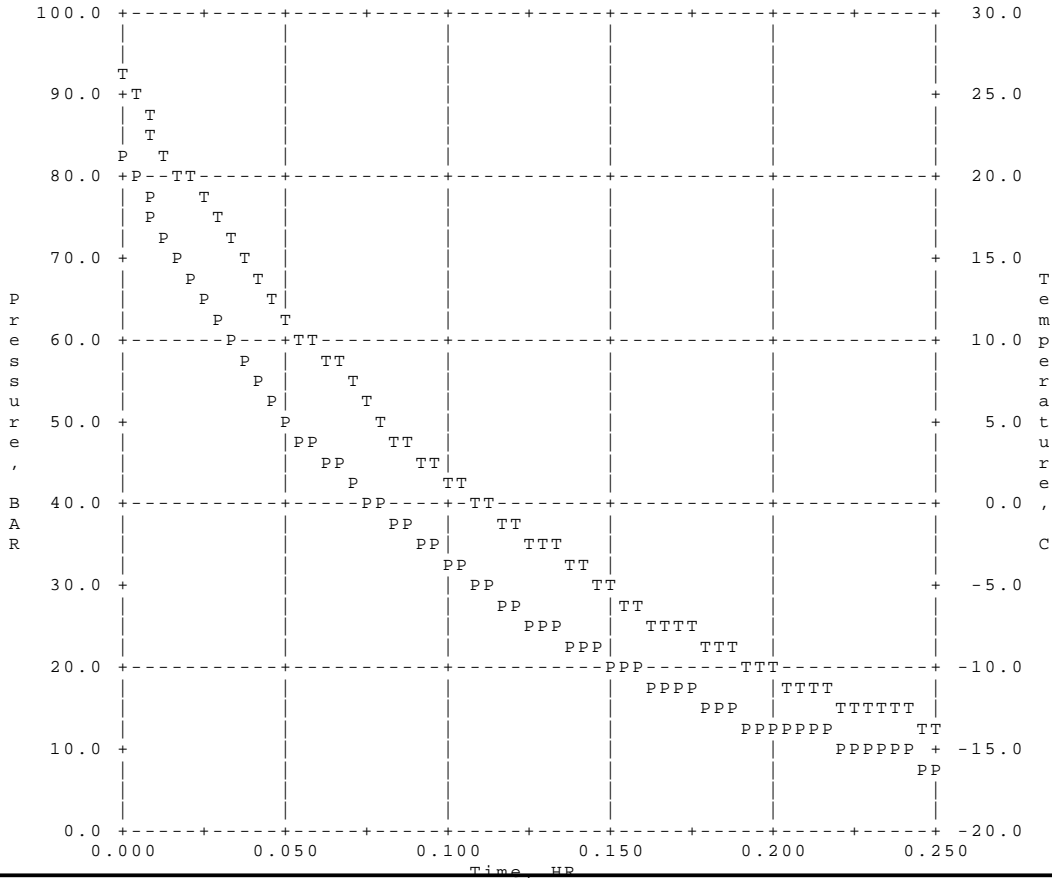
Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	----- M3/HR
0.000	83.000	25.8	1.815E+05	2419.309
1.4E-02	72.411	21.3	1.701E+05	2416.832

2.8E-02	63.321	17.1	1.488E+05	2412.726
4.2E-02	55.461	13.3	1.303E+05	2410.831
5.6E-02	48.651	10.0	1.142E+05	2411.344
7.0E-02	42.702	7.0	1.001E+05	2414.029
8.4E-02	37.487	4.2	87738.206	2417.424
9.8E-02	32.907	1.8	76909.985	2420.918
0.112	28.882	-4.4E-01	67415.533	2424.256
0.126	25.343	-2.4	59088.676	2427.299
0.140	22.232	-4.3	51785.363	2429.971
0.154	19.498	-5.9	45380.070	2432.241
0.168	17.095	-7.4	39763.015	2434.101
0.182	14.984	-8.8	34837.953	2435.561
0.196	13.132	-10.0	30520.386	2436.640
0.210	11.506	-11.1	26736.060	2437.360
0.224	10.079	-12.1	23419.703	2437.745
0.238	8.828	-13.1	20513.930	2437.820
0.250	7.880	-13.8	18128.889	2437.636

Pressure and Temperature Profiles

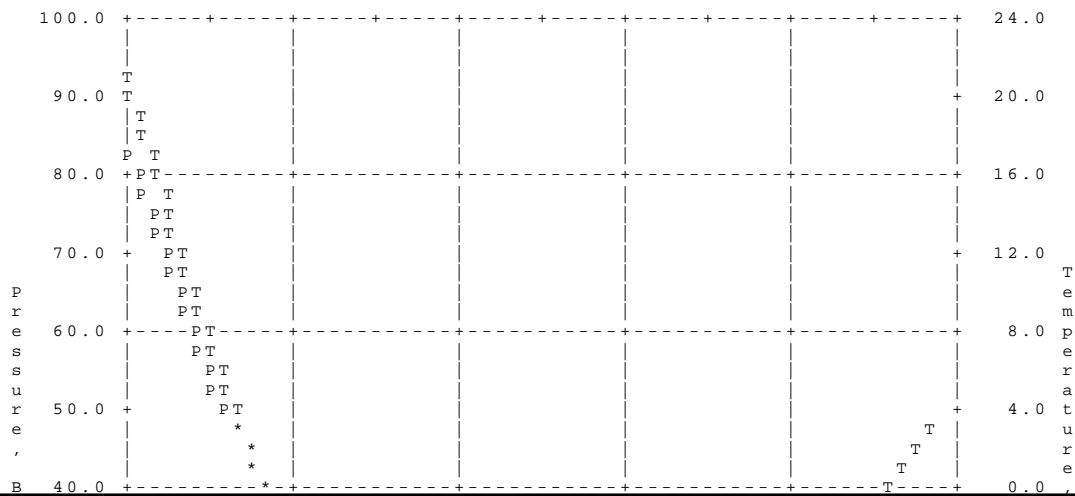


Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	21.0	1.843E+05	2382.465
4.0E-02	56.608	8.8	1.552E+05	2379.487
8.0E-02	39.079	-1.4E-01	1.063E+05	2380.053
0.120	27.006	-6.6	73063.490	2392.371
0.160	18.641	-11.1	50223.146	2403.988
0.200	12.855	-14.0	34521.643	2413.206
0.240	8.866	-15.4	23733.470	2420.801
0.280	6.122	-15.3	16327.395	2428.109
0.320	4.236	-13.8	11245.811	2436.270
0.360	2.939	-11.0	7759.260	2445.764
0.400	2.044	-7.0	5366.048	2455.922
0.440	1.424	-2.2	3721.963	2464.607
0.480	0.994	2.6	2590.910	2468.601

Pressure and Temperature Profiles



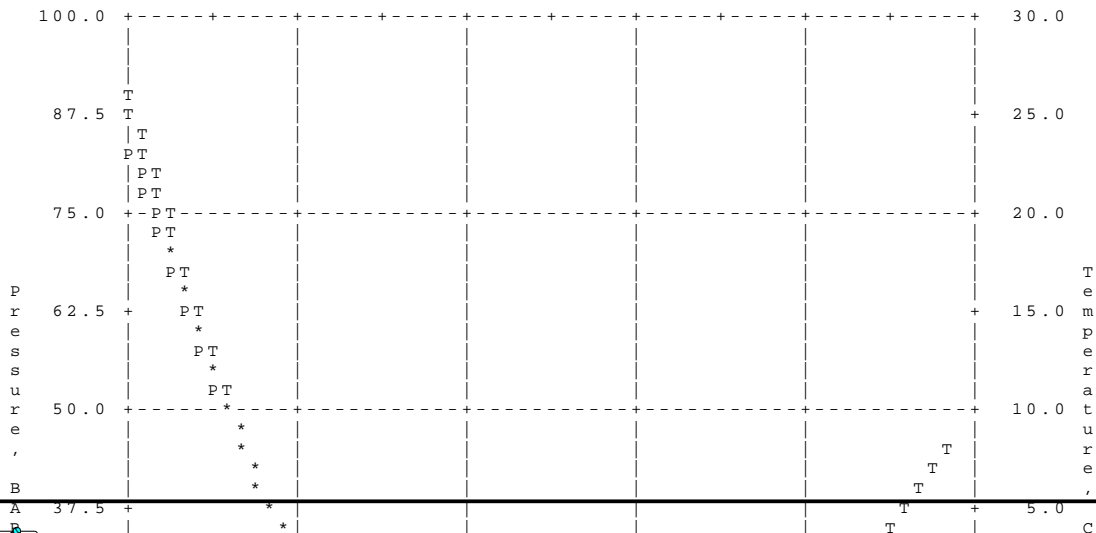


Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	25.8	1.815E+05	2419.309
4.0E-02	56.266	13.7	1.525E+05	2415.625
8.0E-02	38.586	4.9	1.039E+05	2413.716
0.120	26.502	-1.5	71045.244	2423.217
0.160	18.186	-5.8	48576.370	2433.309
0.200	12.470	-8.6	33207.291	2441.788
0.240	8.550	-9.8	22699.102	2449.323
0.280	5.868	-9.7	15520.103	2457.136
0.320	4.033	-8.1	10618.139	2466.310
0.360	2.777	-5.3	7271.148	2477.352
0.400	1.915	-1.3	4984.713	2489.801
0.440	1.321	3.3	3420.874	2502.101
0.480	0.910	7.9	2348.740	2512.205

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

## 5.6 UNIT 105

### 5.6.1 BDV 0033

Volume Calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0001	105-E-101	51	vapor	0	0	449014	53.06	0.000	1.000	0	351
105-E-101	105-D-101	52	mixed	35674	509.71	413339	79.094	0.013	0.987	13	154
105-D-101	SDV-0042	s65	vapor	0	0	292005	79.094	0.000	1.000	0	379
105-D-101	SDV-0032	53	liquid	35674	509.71	0	0	1.000	0.000	221	0
105-D-101	105-E-101	246	vapor	0	0	121334	79.094	0.000	1.000	0	43
105-E-101	FV-0066	247	liquid	121334	324.61	0	0	1.000	0.000	800	0
	105-D-101	53 e 244			509.71		79.094			9328	2365
	105-E-101	52	mixed	35674	509.71	413339	79.094	0.0421	0.9579	159	561
	105-E-101	247	liquid		324.61		0			665	0
		TOTAL								11186	3853

	<h2 style="margin:0;">South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</h2>	
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	<b>Doc. Number : DB-1516-999-P312-212</b>	<b>Rev. : 3    Class: 2</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0001	105-E-101	24	24.02	F21	610	80	30.96	548.08	21.578	8	20	0.00	6.606	6.606
105-E-101	105-D-101	24	24.02	G46	610	60	24.6	560.8	22.079	0	8	0.03	1.950	1.976
105-D-101	SDV-0042	20	20.00	G46	508	60	20.62	466.76	18.376	8	20	0.00	4.791	4.791
105-D-101	SDV-0032	8	8.63	G46	219.1	60	10.31	198.48	7.814	8	6	0.43	0.000	0.433
105-D-101	105-E-101	12	12.75	G46	323.8	60	14.27	295.26	11.624	0	8	0.00	0.548	0.548
105-E-101	FV-0066	12	12.75	G46	323.8	60	14.27	295.26	11.624	16	20	2.46	0.000	2.465
	105-D-101											18.300	29.900	48.2
	105-E-101											0.312	7.098	7.41
	105-E-101											2.050	0.000	2.05
	<b>TOTAL</b>											23.59	50.893	74.479

Wetted area calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
SDV-0001	105-E-101	51	vapor	0	0	449014	53.06	48.212	0.000	0.030	0.030
105-E-101	105-D-101	52	mixed	35674	509.71	413339	79.094	14.094	0.000	1.884	1.884
105-D-101	SDV-0042	s65	vapor	0	0	292005	79.094	41.058	0.000	0.273	0.273
105-D-101	SDV-0032	53	liquid	35674	509.71	0	0	8.730	4.988	3.741	8.730
105-D-101	105-E-101	246	vapor	0	0	121334	79.094	7.421	0.000	0.009	0.009
105-E-101	FV-0066	247	liquid	121334	324.61	0	0	33.393	14.841	18.552	33.393
	105-D-101	53 e 244			509.71		79.094				29.61
	105-E-101	52	mixed	35674	509.71	413339	79.094				
	105-E-101	247	liquid		324.61		0				
	<b>TOTAL</b>	<b>QUANTITY</b>						152.908	19.830	24.489	73.929



Fire case:

\*\*\* DEPRESSURING SUMMARY

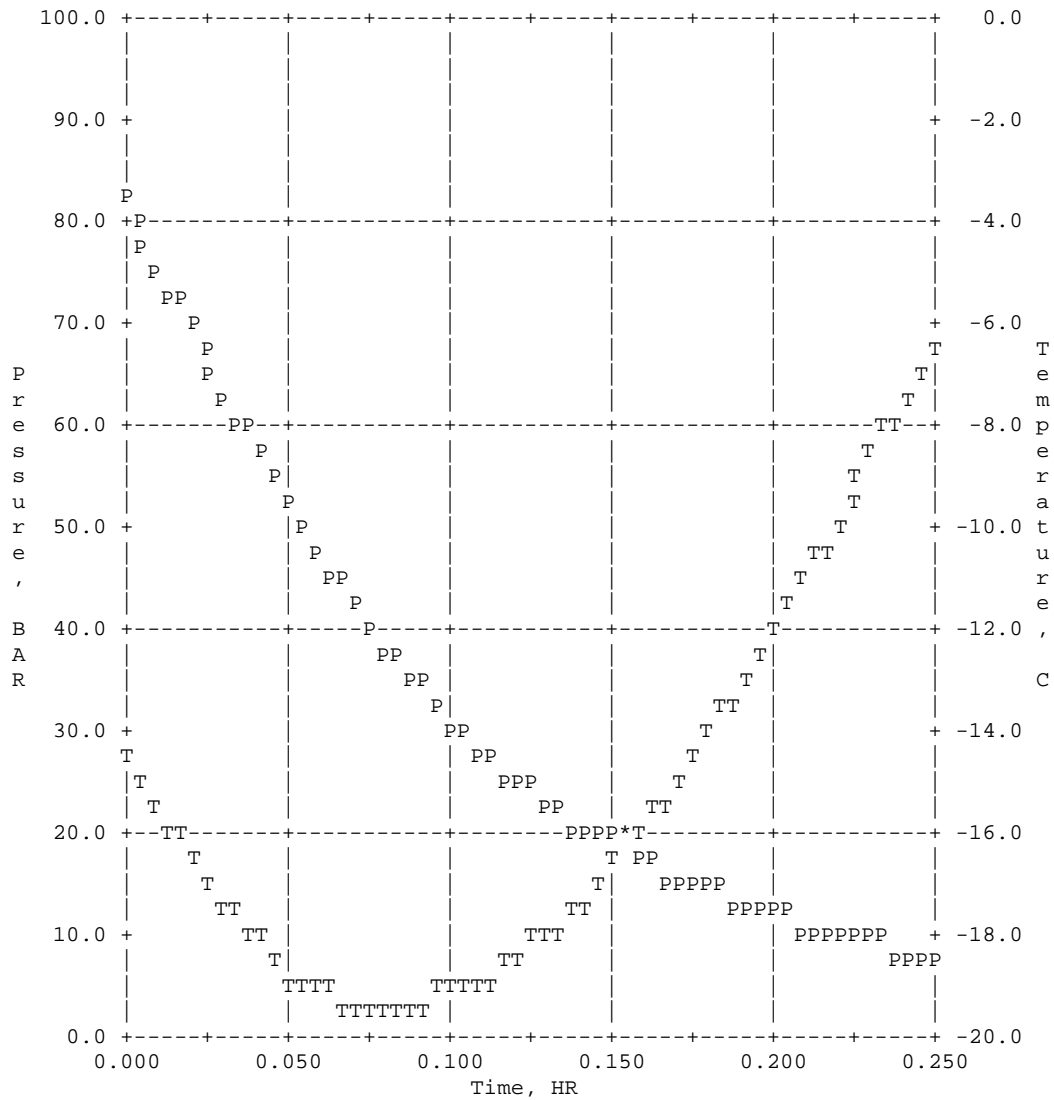
TIME                      PRES                      TEMP                      ---- VENT RATE ----

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	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



HR	BAR	C	KG/HR	M3/HR
0.000	83.000	-14.3	95586.808	931.202
1.0E-02	75.605	-15.5	90593.752	938.758
2.0E-02	68.777	-16.6	81130.324	954.256
3.0E-02	62.485	-17.5	72674.429	968.485
4.0E-02	56.702	-18.2	65123.739	981.352
5.0E-02	51.401	-18.8	58383.931	992.838
6.0E-02	46.555	-19.2	52369.673	1002.960
7.0E-02	42.136	-19.4	47004.419	1011.755
8.0E-02	38.118	-19.5	42219.746	1019.267
9.0E-02	34.473	-19.4	37954.549	1025.538
1.0E-01	31.173	-19.2	34154.243	1030.607
0.110	28.192	-18.9	30770.018	1034.507
0.120	25.505	-18.5	27758.169	1037.267
0.130	23.087	-17.9	25079.512	1038.915
0.140	20.916	-17.3	22698.864	1039.475
0.150	18.969	-16.6	20584.602	1038.970
0.160	17.227	-15.8	18708.280	1037.429
0.170	15.669	-15.0	17044.304	1034.882
0.180	14.278	-14.0	15569.648	1031.365
0.190	13.039	-13.1	14263.607	1026.921
0.200	11.934	-12.1	13107.579	1021.599
0.210	10.952	-11.0	12084.875	1015.459
0.220	10.078	-9.9	11180.544	1008.566
0.230	9.302	-8.7	10381.215	1000.994
0.240	8.612	-7.6	9674.956	992.825
0.250	8.000	-6.4	9051.117	984.142

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

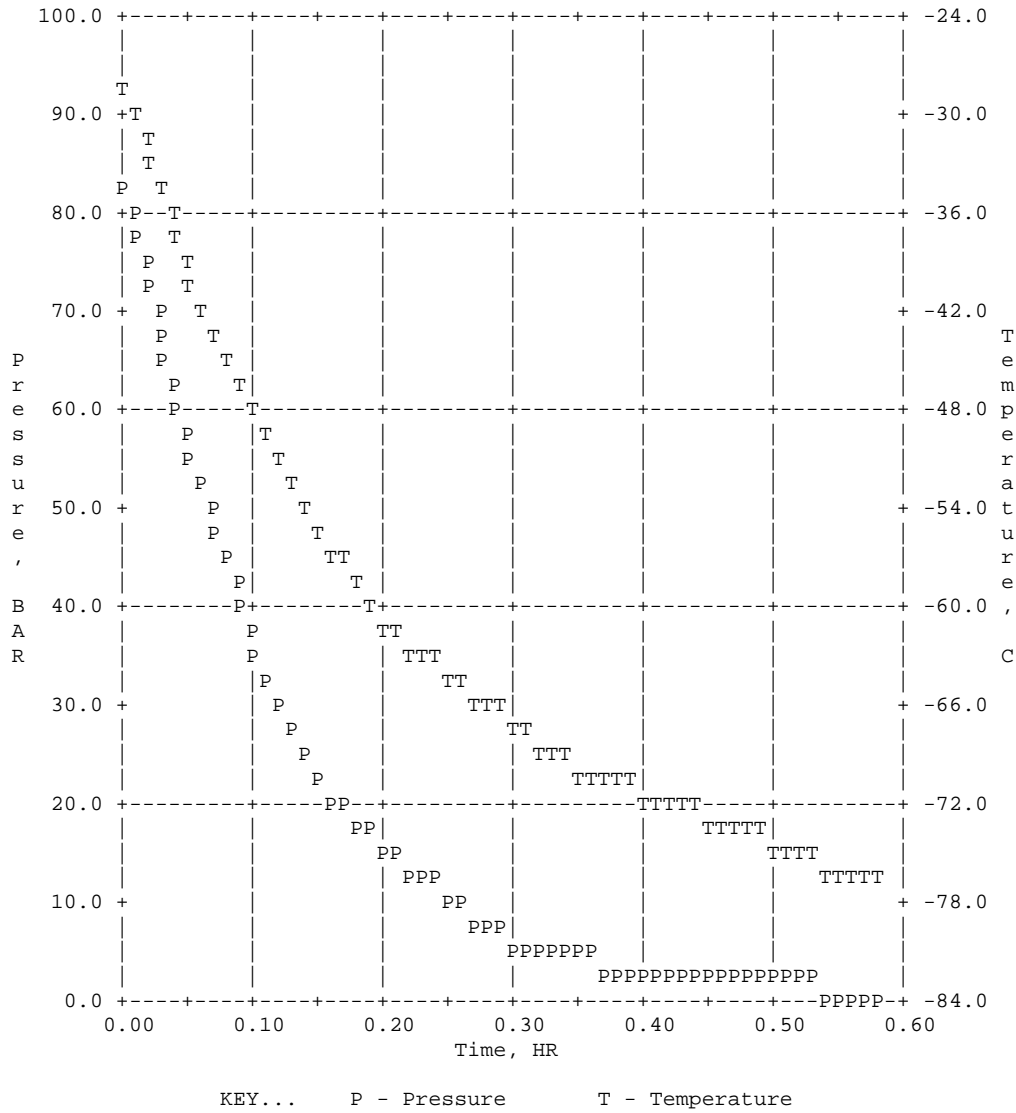
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	-28.9	1.049E+05	849.014
2.5E-02	67.414	-34.6	93255.932	865.565
5.0E-02	54.520	-39.8	72652.336	900.666
7.5E-02	43.754	-44.5	56813.051	928.288
1.0E-01	34.940	-48.7	44490.953	949.204
0.125	27.830	-52.4	34928.124	964.417
0.150	22.154	-55.7	27511.993	974.997
0.175	17.652	-58.4	21757.784	981.817
0.200	14.095	-60.9	17286.933	985.546
0.225	11.289	-63.0	13806.332	986.683
0.250	9.078	-64.8	11090.099	985.598
0.275	7.335	-66.4	8964.514	982.573
0.300	5.959	-67.7	7296.035	977.829
0.325	4.871	-69.0	5981.957	971.550
0.350	4.008	-70.1	4943.211	963.899
0.375	3.322	-71.0	4118.848	955.034
0.400	2.775	-71.9	3461.816	945.117
0.425	2.336	-72.7	2935.736	934.320
0.450	1.984	-73.4	2512.434	922.822
0.475	1.699	-74.1	2170.051	910.814
0.500	1.468	-74.7	1891.592	898.485
0.525	1.279	-75.3	1663.822	886.024
0.550	1.124	-75.8	1476.407	873.606
0.575	0.997	-76.3	1321.256	861.390

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Spurious depressurization:

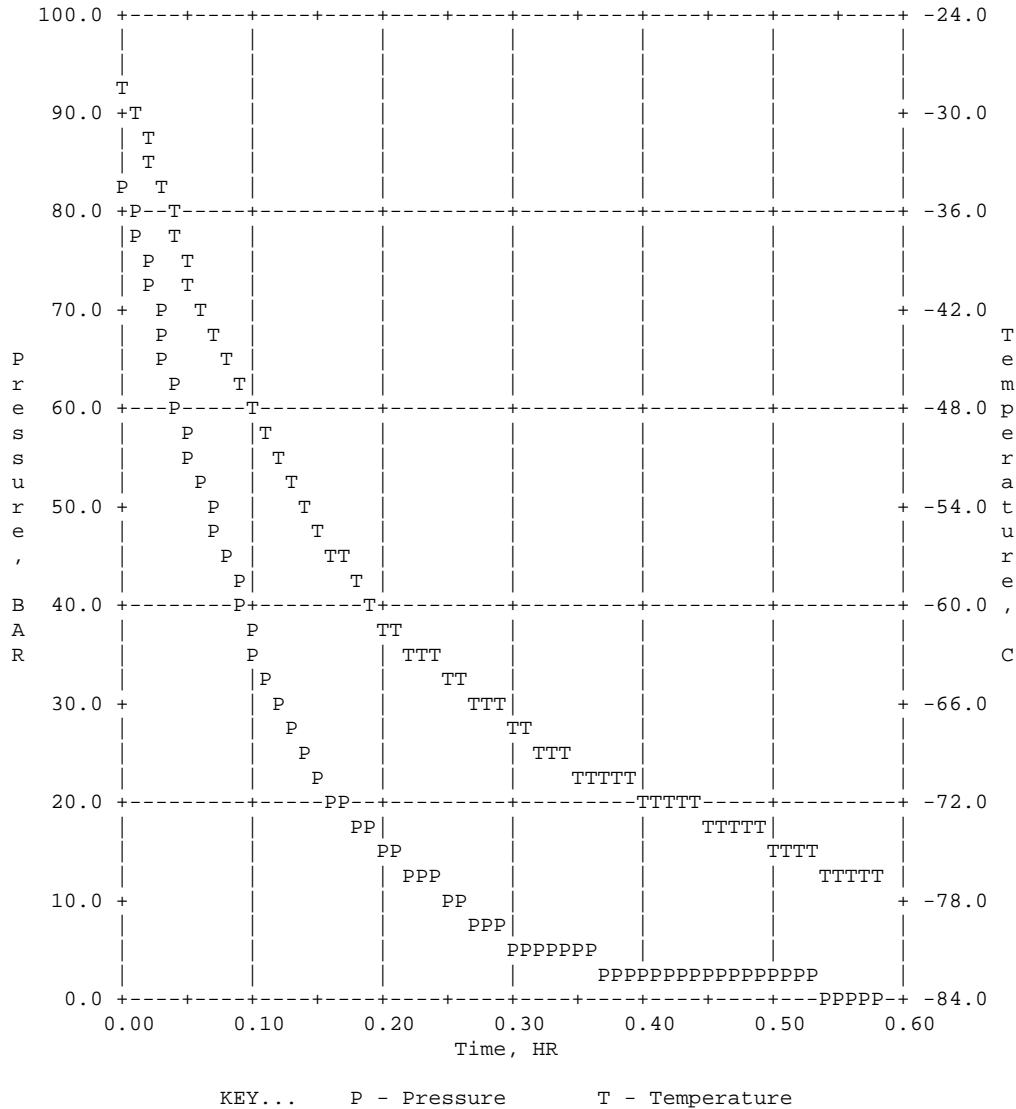
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	83.000	-28.9	1.049E+05	849.014
2.5E-02	67.414	-34.6	93255.932	865.565
5.0E-02	54.520	-39.8	72652.336	900.666
7.5E-02	43.754	-44.5	56813.051	928.288
1.0E-01	34.940	-48.7	44490.953	949.204
0.125	27.830	-52.4	34928.124	964.417
0.150	22.154	-55.7	27511.993	974.997
0.175	17.652	-58.4	21757.784	981.817
0.200	14.095	-60.9	17286.933	985.546
0.225	11.289	-63.0	13806.332	986.683
0.250	9.078	-64.8	11090.099	985.598
0.275	7.335	-66.4	8964.514	982.573
0.300	5.959	-67.7	7296.035	977.829
0.325	4.871	-69.0	5981.957	971.550
0.350	4.008	-70.1	4943.211	963.899
0.375	3.322	-71.0	4118.848	955.034
0.400	2.775	-71.9	3461.816	945.117
0.425	2.336	-72.7	2935.736	934.320
0.450	1.984	-73.4	2512.434	922.822
0.475	1.699	-74.1	2170.051	910.814
0.500	1.468	-74.7	1891.592	898.485
0.525	1.279	-75.3	1663.822	886.024
0.550	1.124	-75.8	1476.407	873.606
0.575	0.997	-76.3	1321.256	861.390



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.6.2 BDV 0055

#### Volume Calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT	
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)	
FV-0108	105-K-101	57	vapor	0	0	374728	19.675	0.000	1.000	0	3	
SDV-0012	105-K-101	57	vapor	0	0	374728	19.675	0.000	1.000	0	858	
105-K-101	SDV-0058	62	vapor	0	0	374728	21.774	0.000	1.000	0	757	
ANTI SURGE			62	vapor	0	0	374728	21.774	0.000	1.000	0	46
104-E-101	UNIT 106	57	vapor	0	0	374728	19.675	0.000	1.000	0	42	
105-K-101		62	vapor	0	0	374728	21.774	0.000	1.000	0	22	
TOTAL										0	1728	

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
FV-0108	105-K-101	6	6.63	D01	168.3	40	7.11	154.08	6.066	0	8	0.000	0.149	0.149
SDV-0012	105-K-101	32	32.01	D01	813	30	15.88	781.24	30.757	16	75	0.000	43.621	43.621
105-K-101	SDV-0058	28	27.99	D01	711	30	15.88	679.24	26.742	8	88	0.000	34.786	34.786
ANTI SURGE		24	24.02	D01	610	30	14.27	581.46	22.892	0	8	0.000	2.124	2.124
104-E-101	UNIT 106	24	24.02	D01	610	30	14.27	581.46	22.892	0	8	0.000	2.124	2.124
105-K-101												0.000	1.000	1.000
TOTAL												0.000	83.806	83.806

#### Wetted area calculation:

In the system there is no liquid phase and therefore no wetted surface.

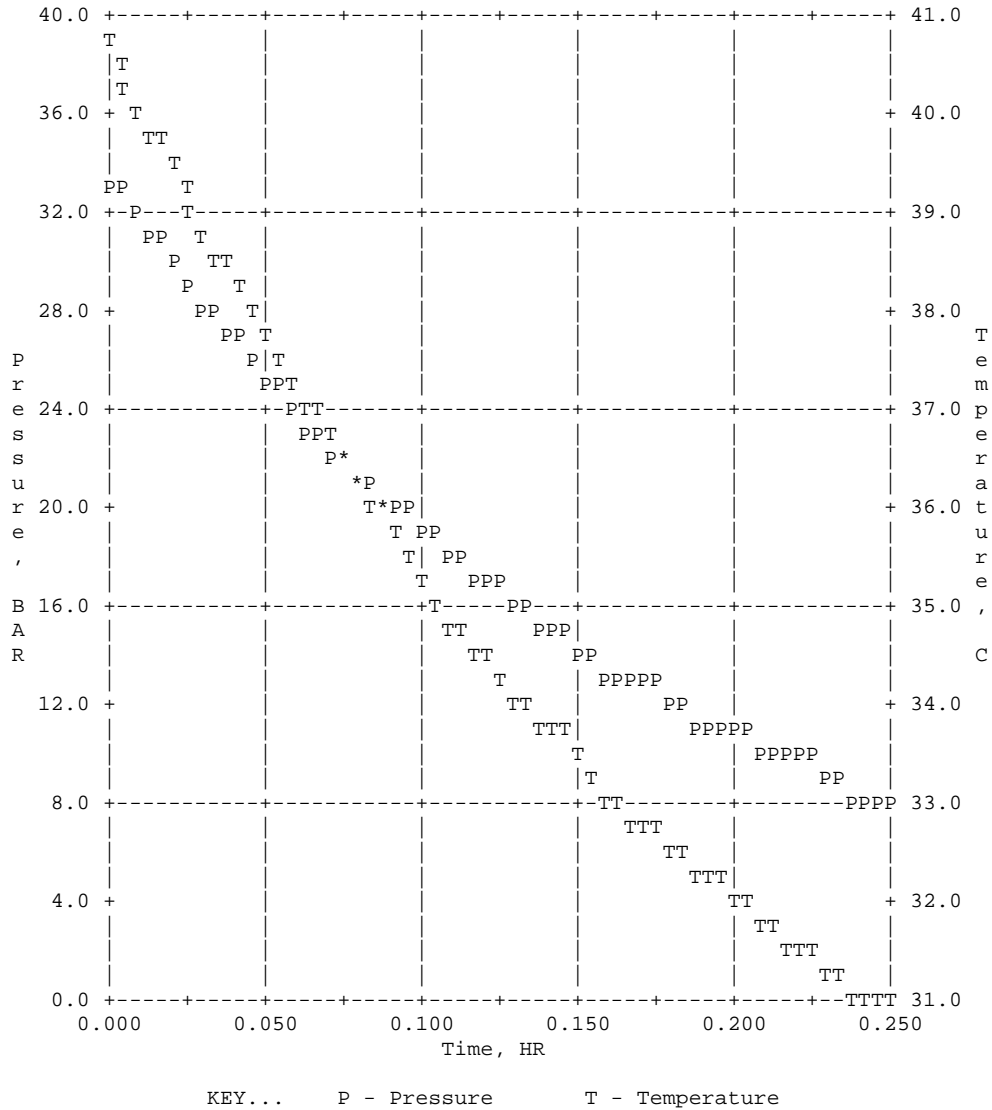
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Fire case:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.500	40.8	10974.677	480.400
1.0E-02	31.631	40.1	10668.740	480.393
2.0E-02	29.868	39.5	10074.009	480.383
3.0E-02	28.204	38.8	9512.581	480.379
4.0E-02	26.633	38.2	8982.553	480.382
5.0E-02	25.149	37.7	8482.141	480.389
6.0E-02	23.749	37.1	8009.668	480.401
7.0E-02	22.427	36.6	7563.554	480.416
8.0E-02	21.179	36.2	7142.315	480.434
9.0E-02	20.001	35.7	6744.553	480.454
1.0E-01	18.888	35.3	6368.950	480.476
0.110	17.837	34.9	6014.266	480.499
0.120	16.844	34.5	5679.329	480.524
0.130	15.907	34.1	5363.037	480.549
0.140	15.022	33.7	5064.349	480.574
0.150	14.186	33.4	4782.284	480.600
0.160	13.396	33.1	4515.915	480.626
0.170	12.651	32.8	4264.369	480.651
0.180	11.947	32.5	4026.820	480.677
0.190	11.282	32.3	3802.489	480.702
0.200	10.654	32.0	3590.641	480.726
0.210	10.061	31.8	3390.582	480.750
0.220	9.501	31.5	3201.657	480.773
0.230	8.972	31.3	3023.247	480.796
0.240	8.472	31.1	2854.766	480.818
0.250	8.000	30.9	2695.658	480.839

Pressure and Temperature Profiles



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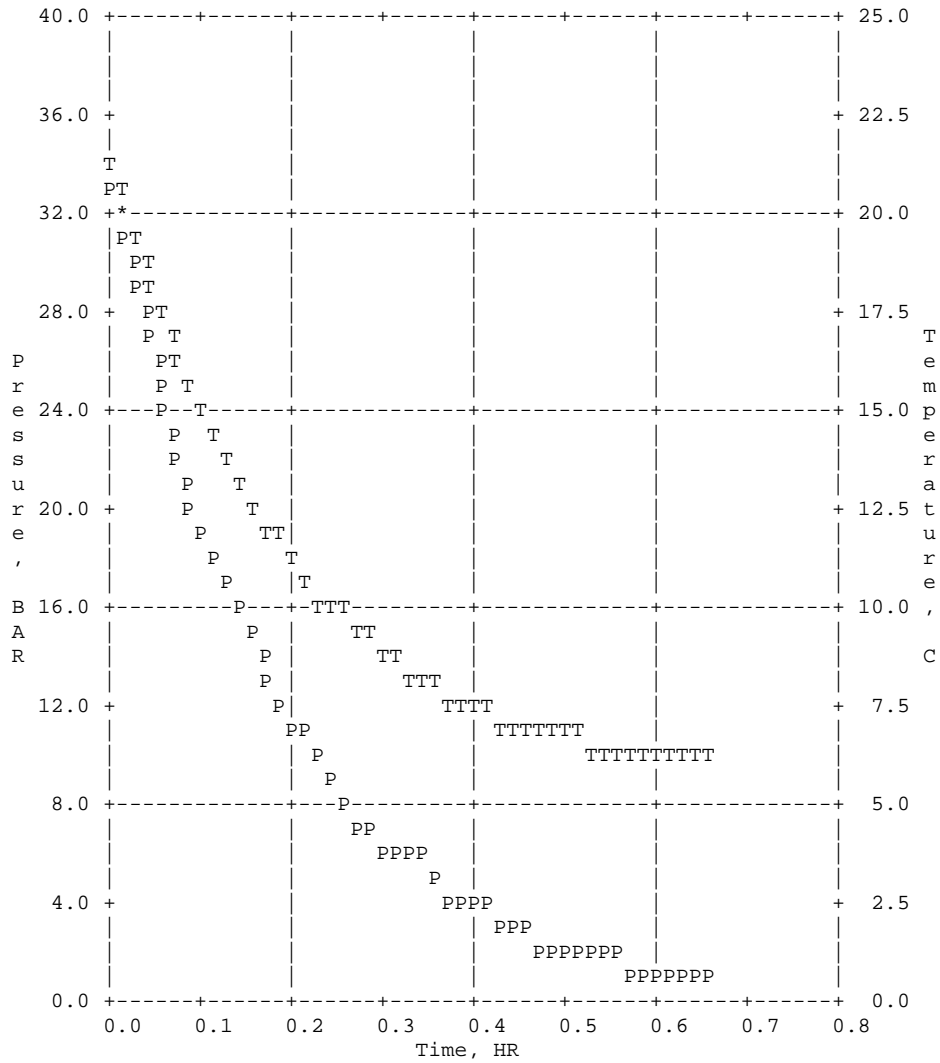
Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.500	21.0	11427.890	462.019
2.5E-02	29.186	19.1	10691.621	462.041
5.0E-02	25.431	17.5	9314.184	462.104
7.5E-02	22.161	16.0	8114.493	462.194
1.0E-01	19.311	14.8	7069.348	462.298
0.125	16.827	13.6	6158.707	462.410
0.150	14.662	12.6	5365.201	462.522
0.175	12.775	11.7	4673.749	462.631
0.200	11.131	11.0	4071.232	462.735
0.225	9.697	10.3	3546.229	462.832
0.250	8.448	9.7	3088.791	462.922
0.275	7.359	9.2	2690.245	463.004
0.300	6.410	8.7	2343.029	463.079
0.325	5.583	8.3	2040.550	463.146
0.350	4.863	8.0	1777.060	463.206
0.375	4.235	7.7	1547.546	463.259
0.400	3.688	7.4	1347.636	463.307
0.425	3.212	7.2	1173.521	463.349
0.450	2.797	7.0	1021.878	463.386
0.475	2.436	6.8	889.813	463.419
0.500	2.121	6.6	774.802	463.448
0.525	1.847	6.5	674.646	463.474
0.550	1.608	6.4	587.428	463.496
0.575	1.400	6.3	511.480	463.516
0.600	1.219	6.2	445.346	463.533
0.625	1.062	6.1	387.759	463.548
0.650	0.924	6.0	337.616	463.561

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Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

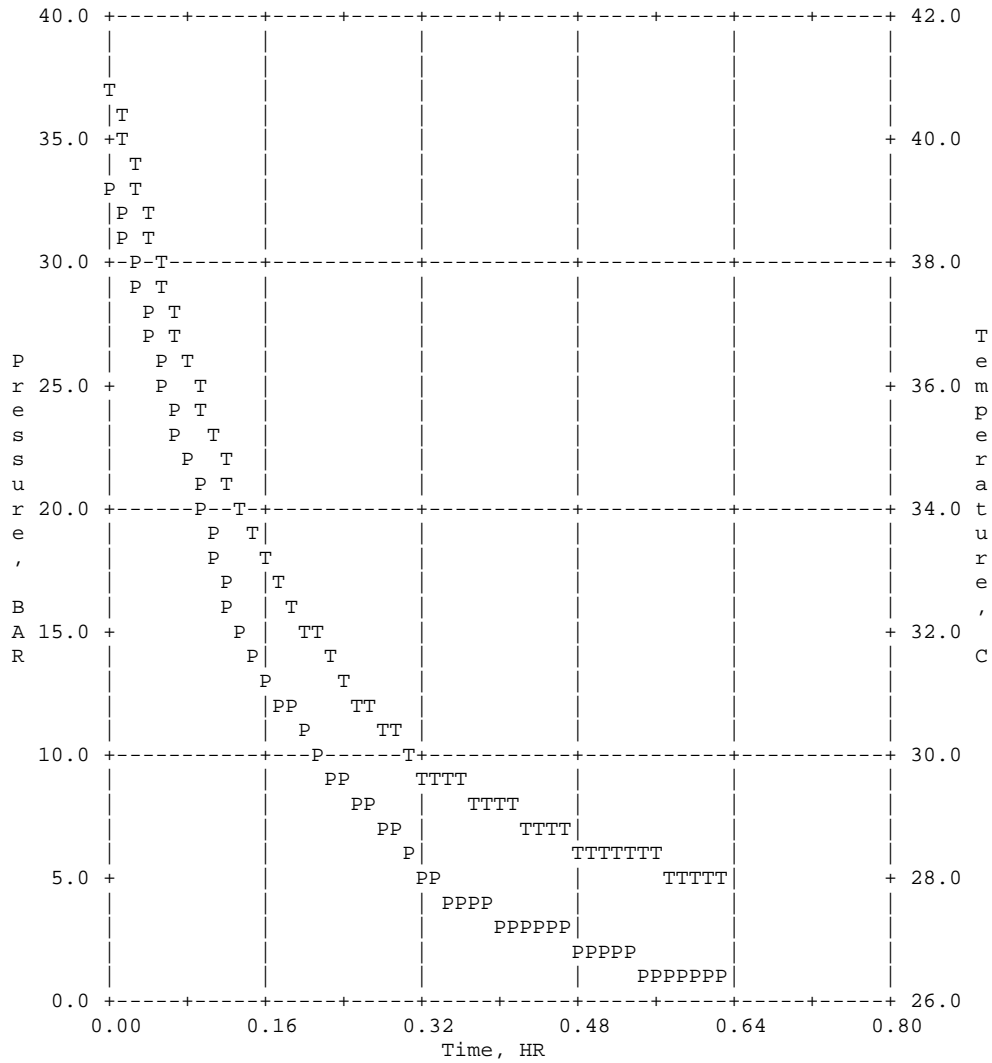
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Spurious depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	33.500	40.8	10982.651	480.749
2.5E-02	29.015	39.1	10247.622	480.739
5.0E-02	25.134	37.7	8876.279	480.735
7.5E-02	21.774	36.4	7688.928	480.762
1.0E-01	18.864	35.3	6660.602	480.808
0.125	16.343	34.3	5769.849	480.866
0.150	14.159	33.4	4998.186	480.929
0.175	12.267	32.6	4329.655	480.993
0.200	10.627	32.0	3750.462	481.056
0.225	9.206	31.4	3248.669	481.116
0.250	7.975	30.9	2813.942	481.172
0.275	6.908	30.5	2437.327	481.223
0.300	5.984	30.1	2111.066	481.271
0.325	5.183	29.8	1828.437	481.313
0.350	4.490	29.5	1583.612	481.351
0.375	3.889	29.2	1371.542	481.385
0.400	3.368	29.0	1187.851	481.415
0.425	2.917	28.8	1028.745	481.442
0.450	2.526	28.7	890.938	481.466
0.475	2.188	28.5	771.581	481.486
0.500	1.895	28.4	668.207	481.504
0.525	1.641	28.3	578.677	481.520
0.550	1.421	28.2	501.139	481.534
0.575	1.231	28.1	433.986	481.546
0.600	1.066	28.1	375.830	481.557
0.625	0.923	28.0	325.465	481.566

Pressure and Temperature Profiles



KEY...    P - Pressure            T - Temperature





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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### 5.6.3 BDV 0066

#### Volume Calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
105-D-101	105-C-101	55	mixed	30947	578.305	4727	34.539	0.281	0.719	215	33
105-D-101	105-X-101	S65	vapor	0	0.000	292005	79.094	0.000	1.000	0	582
105-X-101	105-C-101	54	mixed	22847	507.945	269158	39.606	0.007	0.993	31	369
105-C-101	Cold Box	250	liquid	107562	583.062	0	0.000	1.000	0.000	2817	0
Cold Box	105-C-101	261	mixed	90261	502.990	17301	40.217	0.294	0.706	443	85
105-C-101	Cold Box	249	liquid	105396	465.042	0	0.000	1.000	0.000	1808	0
Cold Box	105-C-101	256	mixed	96470	474.260	8926	52.371	0.544	0.456	621	57
105-C-101	SDV-0067A/B	58	liquid	74286	432.127	0	0.000	1.000	0.000	333	0
FV-0066	105-C-101	S56	mixed	100956	351.308	20378	53.590	0.430	0.570	686	138
105-C-101	Cold Box	248	mixed	65	489.631	374663	47.848	0.000	1.000	0	655
Cold Box	SDV-0002	56	vapor	0	0.000	374728	21.451	0.000	1.000	0	510
105-X-101		54			507.945		36.606			0	37
105-E-103	Tray 18				432.127		57.151			475	0
105-C-101 bottom	Tray 17				433.151		57.506			13631	127
105-C-101 tray 1-7	Tray 14				452.377		53.774			995	945
105-C-101 tray 8-17	Tray 7				650.767		37.583			1842	959
105-C-101 tray 18-23	Tray 5				609.093		39.868			1340	874
105-C-101 top	Tray 1				492.402		47.573			1083	3463
	TOTAL									26321.213	8834.505

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
105-D-101	105-C-101	10	10.75	D46	273.0	40S	9.27	254.46	10.018	16	10	0.372	0.951	1.322
105-D-101	105-X-101	20	20.00	G46	508.0	60	20.62	466.76	18.376	8	35	0.000	7.358	7.358
105-X-101	105-C-101	20	20.00	D46	508.0	STD	9.53	488.94	19.250	20	30	0.062	9.326	9.388
105-C-101	Cold Box	16	16.00	D46	406.4	STD	9.53	387.34	15.250	16	25	4.831	0.000	4.831
Cold Box	105-C-101	12	12.75	D46	323.8	40S	9.53	304.74	11.998	16	25	0.880	2.110	2.990
105-C-101	Cold Box	16	16.00	D46	406.4	STD	9.53	387.34	15.250	8	25	3.889	0.000	3.889
Cold Box	105-C-101	12	12.75	D46	323.8	40S	9.53	304.74	11.998	8	25	1.310	1.097	2.407
105-C-101	SDV-0067A/B	10	10.75	F46	273.0	80S	12.70	247.6	9.748	0	16	0.770	0.000	0.770
FV-0066	105-C-101	14	14.00	D46	355.6	STD	9.53	336.54	13.250	26	25	1.953	2.584	4.537
105-C-101	Cold Box	24	24.02	D46	610.0	XS	12.70	584.6	23.016	26	25	0.000	13.689	13.689
Cold Box	SDV-0002	32	32.01	D46	813.0	STD	9.53	793.94	31.257	8	40	0.000	23.763	23.763
105-X-101												0	1	1
105-E-103												1.1	0	1.1
105-C-101 bottom												31.47	2.2	33.67
105-C-101 tray 1-7												2.2	17.58	19.78
105-C-101 tray 8-17												2.83	25.52	28.35
105-C-101 tray 18-23												2.2	21.92	24.12
105-C-101 top												2.2	72.8	75
	TOTAL											56.066	201.898	257.965

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Wetted Area Calculation:



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
105-D-101	105-C-101	55	mixed	30947	578.305	4727	34.539	14.389	2.467	3.083	5.550
105-D-101	105-X-101	S65	vapor	0	0.000	292005	79.094	63.054	0.000	0.000	0.000
105-X-101	105-C-101	54	mixed	22847	507.945	269158	39.606	30.721	0.000	3.095	3.095
105-C-101	Cold Box	250	liquid	107562	583.062	0	0.000	0.000	0.000	0.000	0.000
Cold Box	105-C-101	261	mixed	90261	502.990	17301	40.217	0.000	0.000	0.000	0.000
105-C-101	Cold Box	249	liquid	105396	465.042	0	0.000	0.000	0.000	0.000	0.000
Cold Box	105-C-101	256	mixed	96470	474.260	8926	52.371	0.000	0.000	0.000	0.000
105-C-101	SDV-0067A/B	58	liquid	74286	432.127	0	0.000	12.446	0.000	12.446	12.446
FV-0066	105-C-101	S56	mixed	100956	351.308	20378	53.590	0.000	0.000	0.000	0.000
105-C-101	Cold Box	248	mixed	65	489.631	374663	47.848	36.732	0.000	0.000	0.000
Cold Box	SDV-0002	56	vapor	0	0.000	374728	21.451	49.885	0.000	0.000	0.000
	105-X-101	54			507.945		36.606				0.00
	105-E-103	Tray 18			432.127		57.151				0.00
	105-C-101bottom	Tray 17			433.151		57.506				55.29
	TOTAL	QUANTITY						207.226	2.467	18.624	76.383

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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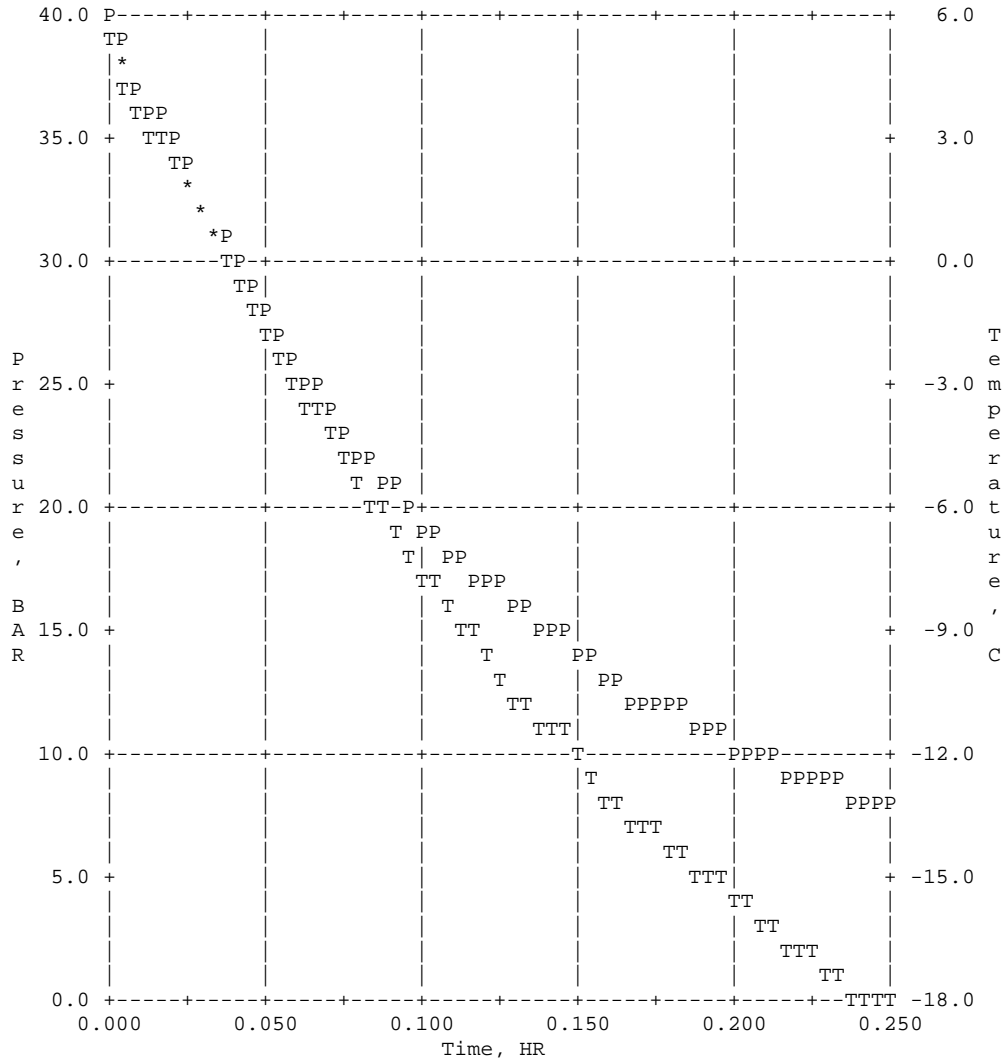
Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	5.4	1.390E+05	2679.125
1.0E-02	37.164	3.9	1.339E+05	2683.315
2.0E-02	34.528	2.4	1.241E+05	2690.951
3.0E-02	32.084	9.2E-01	1.150E+05	2696.423
4.0E-02	29.820	-4.7E-01	1.068E+05	2699.938
5.0E-02	27.728	-1.8	99184.661	2701.687
6.0E-02	25.797	-3.1	92245.366	2701.842
7.0E-02	24.016	-4.3	85888.272	2700.563
8.0E-02	22.375	-5.5	80063.655	2697.996
9.0E-02	20.863	-6.6	74725.682	2694.272
1.0E-01	19.472	-7.6	69832.214	2689.516
0.110	18.192	-8.7	65344.595	2683.841
0.120	17.014	-9.6	61227.415	2677.350
0.130	15.930	-10.5	57448.290	2670.141
0.140	14.932	-11.4	53977.638	2662.303
0.150	14.015	-12.2	50788.465	2653.918
0.160	13.170	-13.0	47856.157	2645.064
0.170	12.393	-13.7	45158.290	2635.811
0.180	11.676	-14.4	42674.441	2626.225
0.190	11.016	-15.1	40386.022	2616.366
0.200	10.408	-15.7	38276.118	2606.290
0.210	9.847	-16.2	36329.339	2596.050
0.220	9.329	-16.8	34531.688	2585.691
0.230	8.851	-17.2	32870.432	2575.259
0.240	8.409	-17.7	31333.988	2564.792
0.250	8.000	-18.1	29911.771	2554.325

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Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

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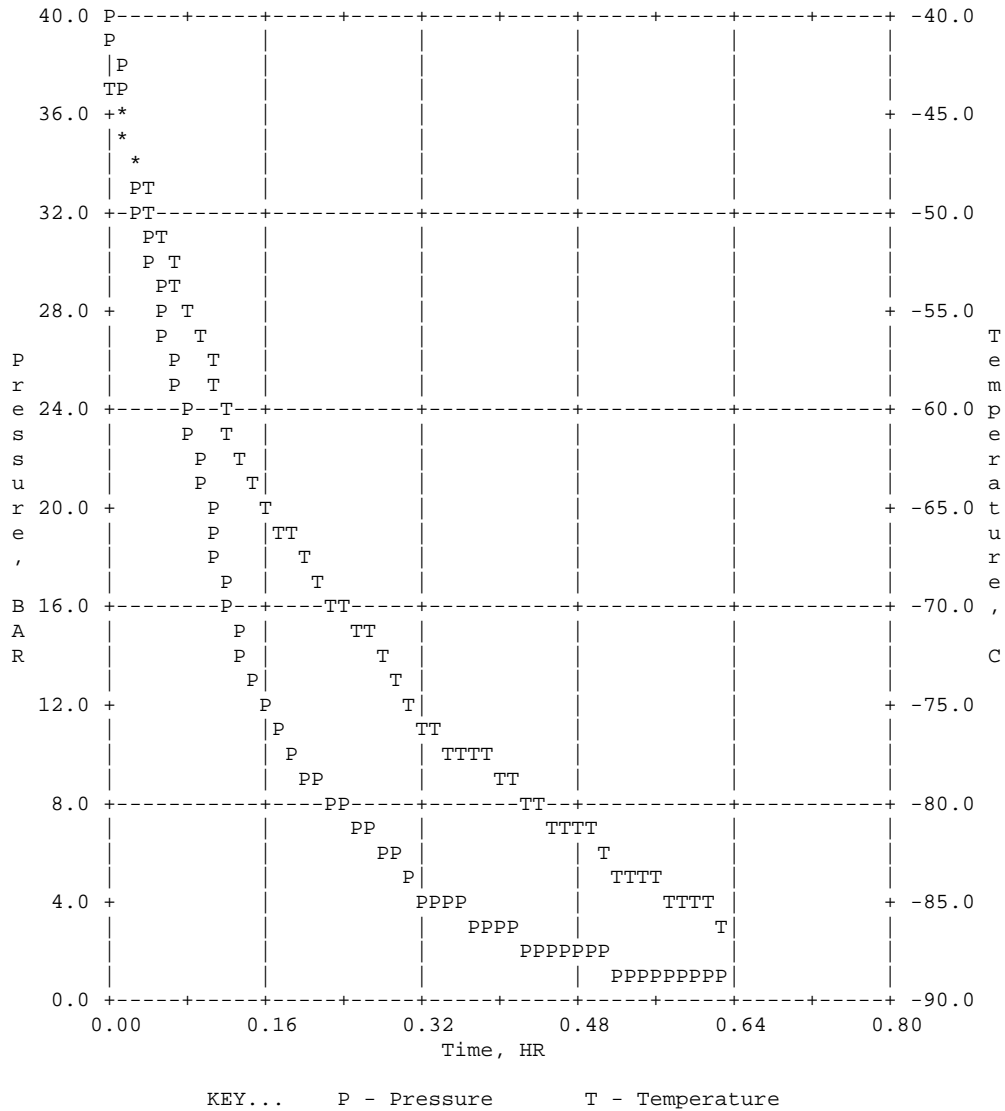
Cold depressurization:

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	-43.8	1.366E+05	2726.928
2.5E-02	33.443	-47.8	1.247E+05	2743.117
5.0E-02	27.863	-51.5	1.029E+05	2774.632
7.5E-02	23.174	-54.9	84983.309	2797.010
1.0E-01	19.269	-58.0	70303.988	2811.713
0.125	16.035	-60.9	58307.117	2819.959
0.150	13.367	-63.4	48511.022	2822.739
0.175	11.170	-65.7	40510.433	2820.853
0.200	9.362	-67.8	33969.694	2814.951
0.225	7.875	-69.7	28613.720	2805.560
0.250	6.650	-71.5	24218.629	2793.121
0.275	5.639	-73.0	20603.014	2778.006
0.300	4.805	-74.5	17620.268	2760.543
0.325	4.113	-75.8	15152.067	2741.026
0.350	3.539	-77.0	13102.945	2719.732
0.375	3.060	-78.1	11395.859	2696.927
0.400	2.661	-79.1	9968.578	2672.867
0.425	2.326	-80.1	8770.770	2647.807
0.450	2.044	-81.0	7761.664	2621.995
0.475	1.806	-81.8	6908.177	2595.674
0.500	1.605	-82.6	6183.400	2569.077
0.525	1.433	-83.3	5565.414	2542.426
0.550	1.287	-84.0	5036.311	2515.926
0.575	1.162	-84.6	4581.425	2489.766
0.600	1.054	-85.2	4188.718	2464.112
0.625	0.961	-85.8	3848.278	2439.109

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

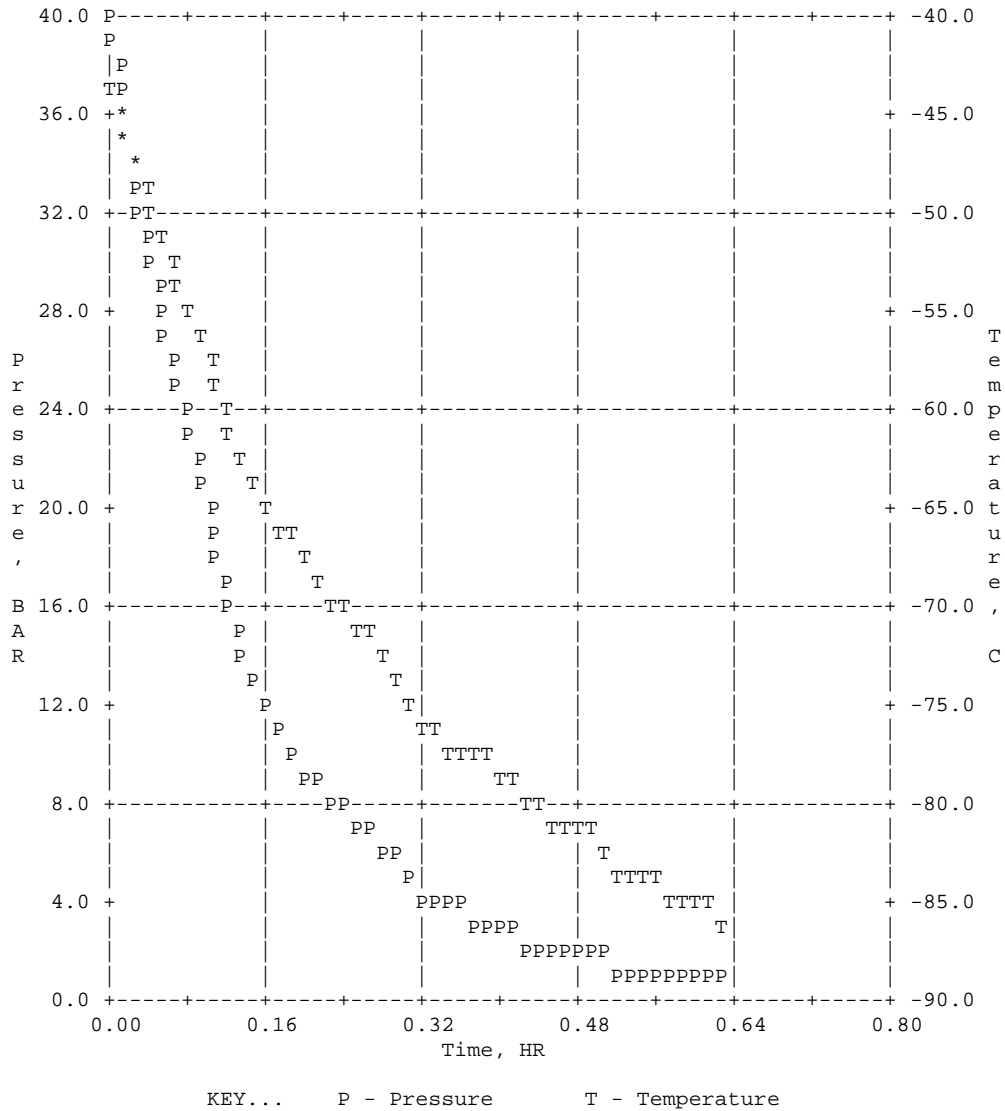
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	-43.8	1.366E+05	2726.928
2.5E-02	33.444	-47.8	1.247E+05	2743.114
5.0E-02	27.866	-51.5	1.029E+05	2774.625
7.5E-02	23.178	-54.9	84994.960	2797.002
1.0E-01	19.273	-58.0	70317.530	2811.709
0.125	16.039	-60.8	58321.560	2819.960
0.150	13.371	-63.4	48525.677	2822.746
0.175	11.174	-65.7	40524.834	2820.868
0.200	9.366	-67.8	33983.538	2814.975
0.225	7.879	-69.7	28626.824	2805.594
0.250	6.653	-71.5	24230.895	2793.165
0.275	5.643	-73.0	20614.402	2778.060
0.300	4.808	-74.5	17630.781	2760.607
0.325	4.116	-75.8	15161.730	2741.101
0.350	3.541	-77.0	13111.804	2719.818
0.375	3.063	-78.1	11403.969	2697.022
0.400	2.663	-79.1	9975.995	2672.973
0.425	2.328	-80.1	8777.555	2647.923
0.450	2.046	-81.0	7767.875	2622.120
0.475	1.808	-81.8	6913.868	2595.807
0.500	1.606	-82.6	6188.624	2569.218
0.525	1.435	-83.3	5570.217	2542.574
0.550	1.288	-84.0	5040.738	2516.080
0.575	1.163	-84.6	4585.514	2489.925
0.600	1.055	-85.2	4192.505	2464.275
0.625	0.962	-85.8	3851.795	2439.275

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	Doc Title : <b>PROCESS DATA FOR BDV'S REPORT</b>	
	Doc. Number : <b>DB-1516-999-P312-212</b>	
		Rev. : <b>3</b> Class: <b>2</b>

### 5.6.4 BDV 0084

#### Volume Calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0067A/B	105-C-102	59	liquid	74286	456.827	0	0.000	1.000	0.000	1320	0
105-C-102	SDV-0082	64	liquid	45844	416.498	0	0.000	1.000	0.000	217	0
105-C-102	105-E-105	60	vapor	0	0	95927	64.486	0.000	1.000	0	95
SDV-0106 A/B	105-C-102	61	liquid	67485	399.798	0	0.000	1.000	0.000	547	0
105-C-102	105-E-104	Tray 31	liquid	186932	407.817	0	0.000	1.000	0.000	465	0
105-E-104	105-C-102	Tray 32	vapor	0	0	141102	79.234	0.000	1.000	0	93
105-E-104	105-C-102	Tray 32	liquid	45830	416.498	0	0.000	1.000	0.000	325	0
	105-E-104	Tray 32			416.498		79.234			233	720
	105-E-105	S43			393.111		63.723			853	356
	105-C-102 bottom	Tray 31			407.817		80.693			15579	915
	105-C-102 trays 1-9	Tray 25			403.714		80.248			1635	2648
	105-C-102 trays 10-22	Tray 17			405.822		72.291			5986	5574
	105-C-102 trays 23-31	Tray 11			412.923		60.228			4216	4110
	105-C-102 top	Tray 2			393.838		64.486			748	2100
	<b>TOTAL</b>									<b>32124</b>	<b>16613</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0067A/B	105-C-102	10	10.75	F46	273.0	80S	12.70	247.6	9.748	20	40	2.89	0.000	2.889
105-C-102	SDV-0082	10	10.75	D01	273.0	30	7.80	257.4	10.134	0	10	0.52	0.000	0.520
105-C-102	105-E-105	12	12.75	D21	323.8	30	8.38	307.04	12.088	0	20	0.00	1.481	1.481
SDV-0106 A/B	105-C-102	12	12.75	F46	323.8	60	14.27	295.26	11.624	0	20	1.37	0.000	1.369
105-C-102	105-E-104	16	16.00	D01	406.4	40	12.70	381	15.000	0	10	1.14	0.000	1.140
105-E-104	105-C-102	16	16.00	D01	406.4	30	9.53	387.34	15.250	0	10	0.00	1.178	1.178
105-E-104	105-C-102	10	10.75	D01	273.0	30	7.80	257.4	10.134	5	10	0.78	0.000	0.781
	105-E-104											0.56	9.09	9.65
	105-E-105											2.17	5.58	7.75
	105-C-102 bottom											38.2	11.34	49.54
	105-C-102 trays 1-9											4.05	33	37.05
	105-C-102 trays 10-22											14.75	77.11	91.86
	105-C-102 trays 23-31											10.21	68.24	78.45
	105-C-102 top											1.9	32.57	34.47
	<b>TOTAL</b>											<b>78.54</b>	<b>239.589</b>	<b>318.129</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

### Wetted area calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
SDV-0067A/B	105-C-102	59	liquid	74286	456.827	0	0.000	15.557	0.000	15.557	15.557
105-C-102	SDV-0082	64	liquid	45844	416.498	0	0.000	8.086	0.000	8.086	8.086
105-C-102	105-E-105	60	vapor	0	0	95927	64.486	0.000	0.000	0.000	0.000
SDV-0106 A/B	105-C-102	61	liquid	67485	399.798	0	0.000	<b>18.552</b>	0.000	<b>18.552</b>	<b>18.552</b>
105-C-102	105-E-104	Tray 31	liquid	186932	407.817	0	0.000	<b>11.969</b>	0.000	<b>11.969</b>	<b>11.969</b>
105-E-104	105-C-102	Tray 32	vapor	0	0	141102	79.234	12.169	0.000	0.000	0.000
105-E-104	105-C-102	Tray 32	liquid	45830	416.498	0	0.000	12.130	4.043	8.086	12.130
	105-E-104	Tray 32			416.498		79.234				7.069
	105-E-105	S43			393.111		63.723				3.394
	105-C-102 bottom	Tray 31			407.817		80.693				47.75
	<b>TOTAL</b>	<b>QUANTITY</b>						<b>78.463</b>	4.043	<b>62.251</b>	<b>124.510</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

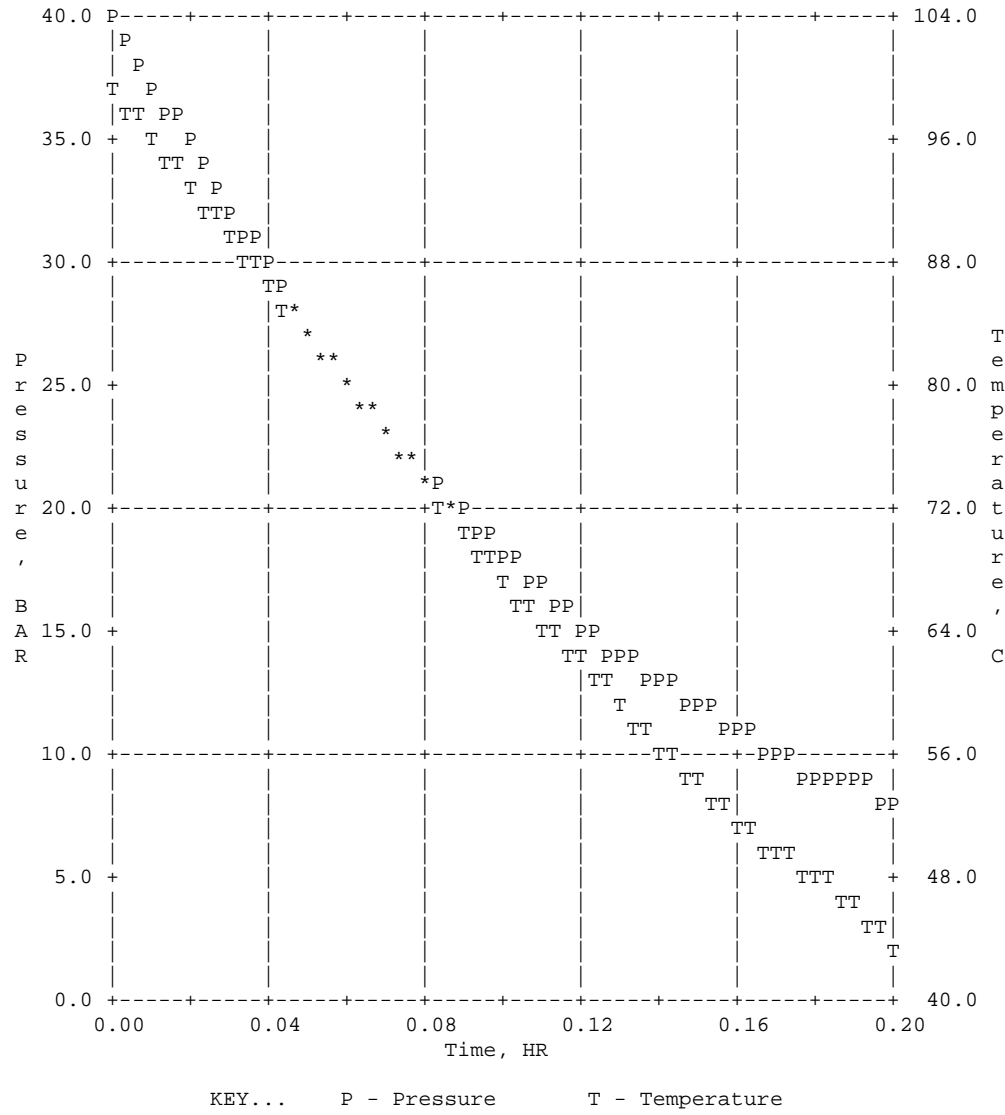
Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	99.4	4.175E+05	4215.543
1.0E-02	37.317	96.2	3.993E+05	4260.118
2.0E-02	34.685	92.9	3.644E+05	4347.281
3.0E-02	32.146	89.5	3.326E+05	4421.075
4.0E-02	29.723	86.2	3.036E+05	4483.532
5.0E-02	27.433	82.9	2.772E+05	4536.301
6.0E-02	25.282	79.7	2.532E+05	4580.723
7.0E-02	23.275	76.5	2.313E+05	4617.902
8.0E-02	21.409	73.3	2.115E+05	4648.758
9.0E-02	19.683	70.3	1.934E+05	4674.072
1.0E-01	18.091	67.3	1.770E+05	4694.507
0.110	16.627	64.5	1.621E+05	4710.640
0.120	15.284	61.7	1.486E+05	4722.971
0.130	14.054	59.1	1.364E+05	4731.941
0.140	12.930	56.5	1.253E+05	4737.937
0.150	11.905	54.1	1.152E+05	4741.305
0.160	10.970	51.8	1.061E+05	4742.351
0.170	10.119	49.6	97849.654	4741.349
0.180	9.344	47.6	90360.159	4738.544
0.190	8.640	45.7	83572.861	4734.153
0.200	8.000	43.9	77420.928	4728.371

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



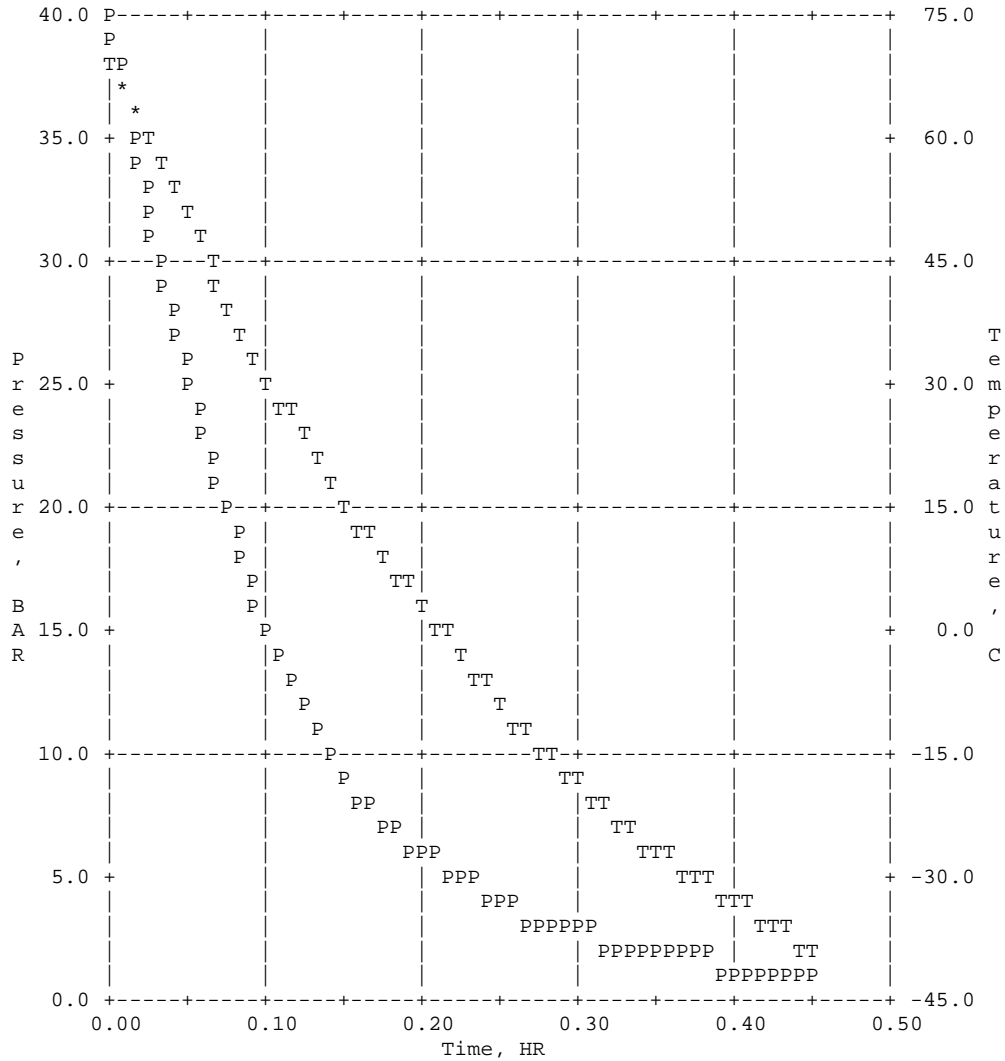
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Cold depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	69.8	3.957E+05	4447.374
2.5E-02	32.069	59.8	3.492E+05	4540.587
5.0E-02	25.319	49.9	2.673E+05	4723.389
7.5E-02	19.834	40.4	2.054E+05	4834.804
1.0E-01	15.491	31.4	1.586E+05	4899.634
0.125	12.106	23.1	1.231E+05	4932.509
0.150	9.492	15.4	96119.706	4942.982
0.175	7.482	8.3	75619.364	4937.683
0.200	5.938	1.9	59986.267	4921.367
0.225	4.751	-4.0	48014.430	4897.499
0.250	3.835	-9.4	38796.842	4868.614
0.275	3.124	-14.2	31654.457	4836.567
0.300	2.569	-18.7	26080.348	4802.706
0.325	2.133	-22.7	21696.471	4768.006
0.350	1.787	-26.4	18220.691	4733.163
0.375	1.511	-29.7	15441.977	4698.665
0.400	1.289	-32.8	13201.921	4664.854
0.425	1.108	-35.6	11381.073	4631.957
0.450	0.960	-38.2	9888.875	4600.121

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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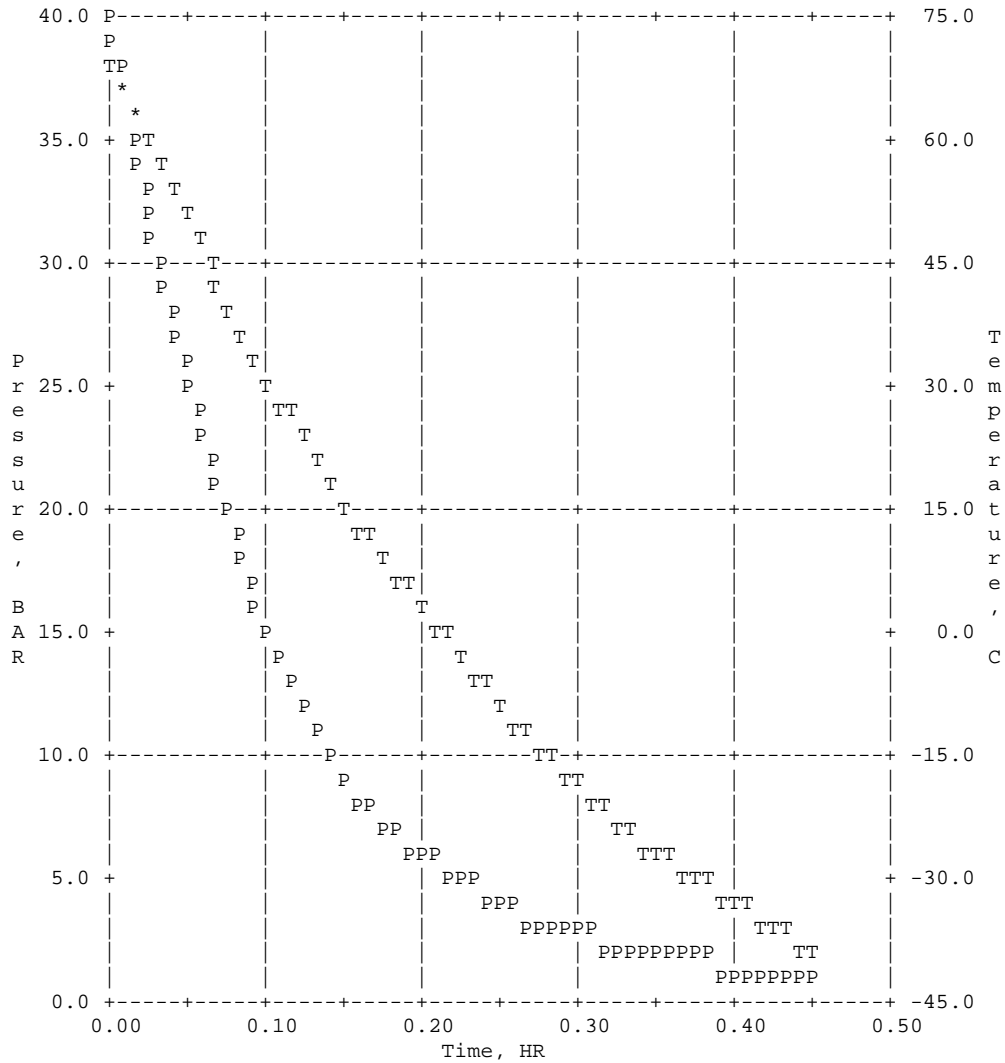
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	69.8	3.957E+05	4447.374
2.5E-02	32.069	59.8	3.492E+05	4540.587
5.0E-02	25.319	49.9	2.673E+05	4723.389
7.5E-02	19.834	40.4	2.054E+05	4834.805
1.0E-01	15.491	31.4	1.586E+05	4899.634
0.125	12.106	23.1	1.231E+05	4932.509
0.150	9.492	15.4	96119.697	4942.983
0.175	7.482	8.3	75619.357	4937.683
0.200	5.938	1.9	59986.261	4921.367
0.225	4.751	-4.0	48014.425	4897.499
0.250	3.835	-9.4	38796.838	4868.614
0.275	3.124	-14.2	31654.453	4836.567
0.300	2.569	-18.7	26080.345	4802.706
0.325	2.133	-22.7	21696.468	4768.006
0.350	1.787	-26.4	18220.689	4733.163
0.375	1.511	-29.7	15441.975	4698.666
0.400	1.289	-32.8	13201.920	4664.854
0.425	1.108	-35.6	11381.072	4631.957
0.450	0.960	-38.2	9888.874	4600.121

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

### 5.6.5 BDV 0102

#### Volume Calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0010	105-E-105	144	mixed	49267	526.607	6724	11.073	0.133	0.867	412	56
105-E-105	SDV-0005	144B	vapor	0	0	55991	8.559	0.000	1.000	0	55
105-E-101	SDV-0005	146	vapor	0	0	19419	8.827	0.000	1.000	0	8
SDV-0011	105-E-101	145	mixed	16303	535.39	3116	9.108	0.082	0.918	253	48
	105-E-105 Shell Side	144			526.607		11.073			2338	329
	105-E-101	145		16303	535.39	3116	9.108	0.082	0.918	50	10
	<b>TOTAL</b>									3052	506

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0010	105-E-105	10	10.75	B21	273.0	20	6.35	260.3	10.248	10	100	0.78	5.072	5.854
105-E-105	SDV-0005	14	14.00	B21	355.6	10	6.35	342.9	13.500	10	60	0.00	6.464	6.464
105-E-101	SDV-0005	12	12.75	B21	323.8	20	6.35	311.1	12.248	0	12	0.00	0.912	0.912
SDV-0011	105-E-101	12	12.75	B21	323.8	20	6.35	311.1	12.248	16	60	0.47	5.305	5.777
	105-E-105 Shell Side											4.44	29.70	34.14
	105-E-101											0.09	1.05	1.140
	<b>TOTAL</b>											5.787	48.500	54.287

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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	Doc. Number : <b>DB-1516-999-P312-212</b>	
		<b>Rev. : 3 Class: 2</b>

Wetted area calculation


FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
SDV-0010	105-E-105	144	mixed	49267	526.607	6724	11.073	22.897	1.880	4.700	6.580
105-E-105	SDV-0005	144B	vapor	0	0	55991	8.559	21.545	0.000	0.000	0.000
105-E-101	SDV-0005	146	vapor	0	0	19419	8.827	11.728	0.000	0.000	0.000
SDV-0011	105-E-101	145	mixed	16303	535.39	3116	9.108	27.366	1.880	4.700	6.580
105-E-105 Shell Side		144			526.607		11.073				
105-E-101		145		16303	535.39	3116	9.108				
	<b>TOTAL</b>	<b>QUANTITY</b>						83.536	3.760	9.400	13.160

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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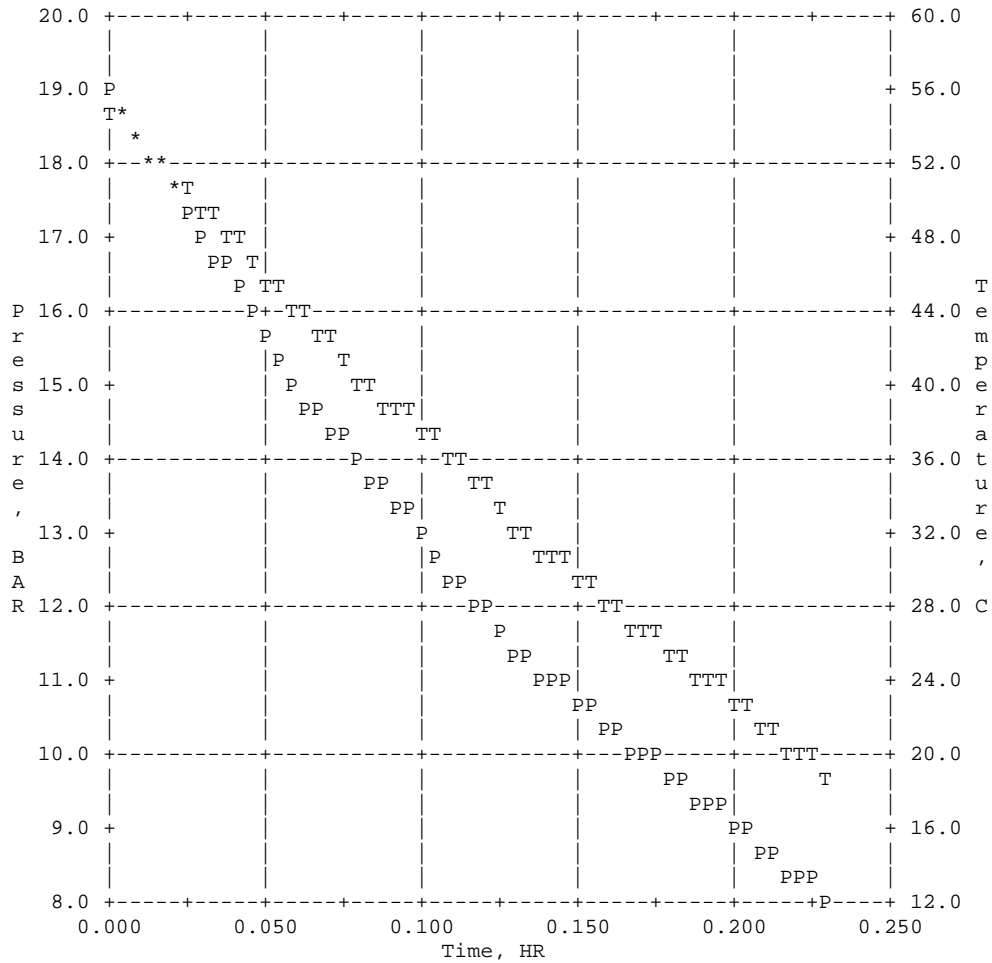
Fire case

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.6	19234.282	437.826
1.0E-02	18.276	52.8	18837.499	438.529
2.0E-02	17.577	51.0	18061.534	439.911
3.0E-02	16.904	49.2	17320.207	441.185
4.0E-02	16.256	47.5	16612.178	442.357
5.0E-02	15.632	45.7	15936.158	443.433
6.0E-02	15.032	44.0	15290.895	444.419
7.0E-02	14.457	42.3	14675.182	445.319
8.0E-02	13.904	40.6	14087.846	446.139
9.0E-02	13.375	39.0	13527.751	446.884
1.0E-01	12.867	37.3	12993.795	447.557
0.110	12.381	35.7	12484.910	448.164
0.120	11.916	34.1	12000.062	448.707
0.130	11.471	32.6	11538.247	449.192
0.140	11.046	31.1	11098.494	449.621
0.150	10.640	29.6	10679.843	449.999
0.160	10.252	28.1	10281.409	450.329
0.170	9.882	26.7	9902.337	450.613
0.180	9.530	25.2	9541.755	450.855
0.190	9.193	23.9	9198.847	451.058
0.200	8.873	22.5	8872.827	451.224
0.210	8.567	21.2	8562.935	451.357
0.220	8.277	19.9	8268.443	451.459
0.230	8.000	18.7	7988.640	451.532

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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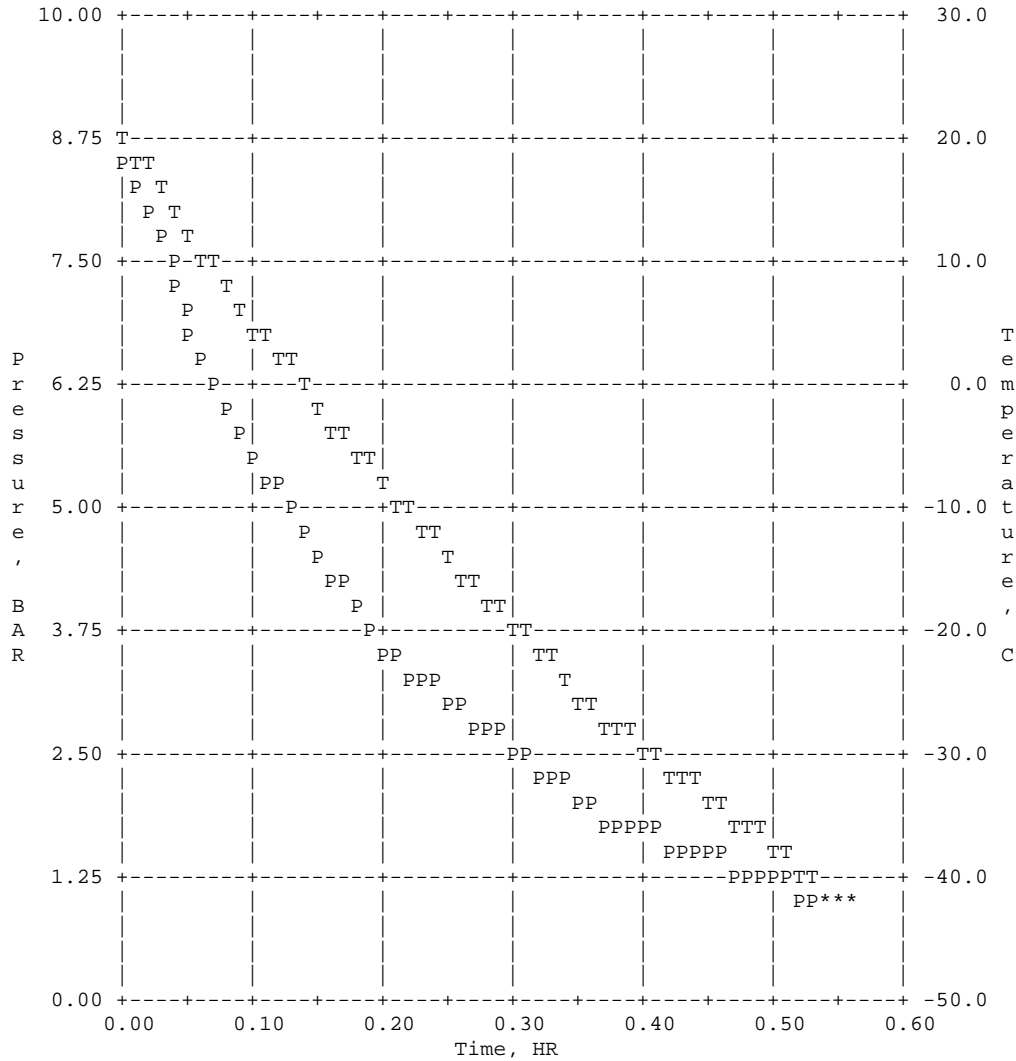
Cold depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.580	21.0	8427.101	451.604
2.5E-02	7.653	16.7	7970.257	451.693
5.0E-02	6.831	12.6	7110.756	451.756
7.5E-02	6.105	8.7	6353.226	451.573
1.0E-01	5.462	4.9	5685.544	451.181
0.125	4.894	1.3	5096.898	450.614
0.150	4.392	-2.2	4577.680	449.902
0.175	3.949	-5.5	4119.386	449.071
0.200	3.557	-8.7	3714.514	448.142
0.225	3.210	-11.8	3356.461	447.136
0.250	2.903	-14.7	3039.428	446.068
0.275	2.631	-17.5	2758.342	444.954
0.300	2.389	-20.2	2508.762	443.805
0.325	2.175	-22.7	2286.810	442.633
0.350	1.984	-25.2	2089.101	441.446
0.375	1.813	-27.5	1912.682	440.251
0.400	1.661	-29.7	1754.979	439.055
0.425	1.525	-31.8	1613.748	437.863
0.450	1.403	-33.9	1487.031	436.679
0.475	1.293	-35.8	1373.121	435.507
0.500	1.195	-37.7	1270.528	434.351
0.525	1.106	-39.5	1177.949	433.211
0.550	1.026	-41.2	1094.248	432.090
0.563	0.989	-42.0	1036.005	431.246

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Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

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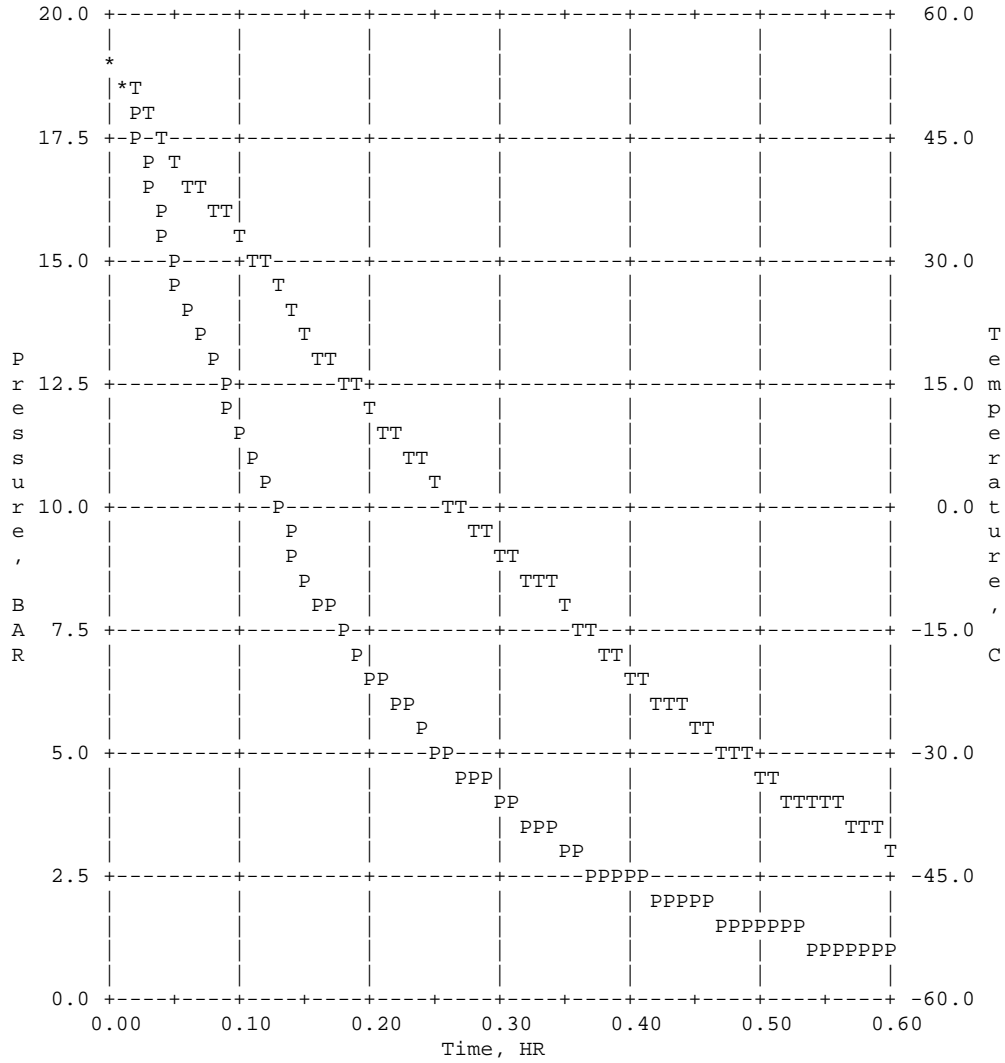
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.6	19241.470	437.990
2.5E-02	16.755	48.8	18023.355	439.965
5.0E-02	14.733	43.1	15736.297	443.764
7.5E-02	12.925	37.5	13732.266	446.666
1.0E-01	11.319	32.0	11980.001	448.803
0.125	9.901	26.6	10451.134	450.286
0.150	8.654	21.4	9119.810	451.212
0.175	7.562	16.4	7962.509	451.663
0.200	6.610	11.6	6957.928	451.712
0.225	5.780	6.9	6086.885	451.423
0.250	5.060	2.5	5332.218	450.851
0.275	4.435	-1.8	4678.668	450.045
0.300	3.893	-5.9	4112.754	449.047
0.325	3.423	-9.8	3622.629	447.895
0.350	3.017	-13.5	3197.935	446.621
0.375	2.664	-17.0	2829.657	445.252
0.400	2.359	-20.4	2509.976	443.813
0.425	2.093	-23.6	2232.134	442.323
0.450	1.863	-26.7	1990.299	440.800
0.475	1.662	-29.6	1779.465	439.257
0.500	1.487	-32.4	1595.334	437.708
0.525	1.334	-35.0	1434.210	436.161
0.550	1.200	-37.5	1292.930	434.625
0.575	1.083	-39.9	1168.785	433.107
0.600	0.979	-42.1	1059.453	431.611

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Pressure and Temperature Profiles



KEY...    P - Pressure            T - Temperature



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### 5.6.6 BDV 0103

#### Volume Calculation:

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
105-E-105	105-D-102	S43	mixed	67485	393.111	28442	63.723	0.278	0.722	239	101
105-D-102	SDV-0106 A/B	S95	liquid	67485	393.111	0	0	1	0	717	0
105-E-105		S43	mixed	67485	393.111	28442	63.723	0.278	0.722	853	356
105-D-102		S95 e 63	liq.+vap.		393.111		63.723			15551	1291
		TOTAL								17360	1747

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
105-E-105	105-D-102	12	12.75	D46	323.8	40S	9.53	304.74	11.998	30	0	0.608	1.580	2.188
105-D-102	SDV-0106 A/B	12	12.75	D46	323.8	40S	9.53	304.74	11.998	0	25	1.823	0.000	1.823
105-E-105												2.170	5.580	7.750
105-D-102												39.560	20.260	59.820
		TOTAL										44.161	27.420	71.582

#### Wetted area calculation:



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
105-E-105	105-D-102	S43	mixed	67485	393.111	28442	63.723	4.787	1.837	0.000	1.837
105-D-102	SDV-0106 A/B	S95	liquid	67485	393.111	0	0	23.934	0.000	23.934	23.934
105-E-105		S43	mixed	67485	393.111	28442	63.723				
105-D-102		S95 e 63	liq.+vap.		393.111		63.723				63.057
		TOTAL	QUANTITY					28.721	1.837	23.934	88.828

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

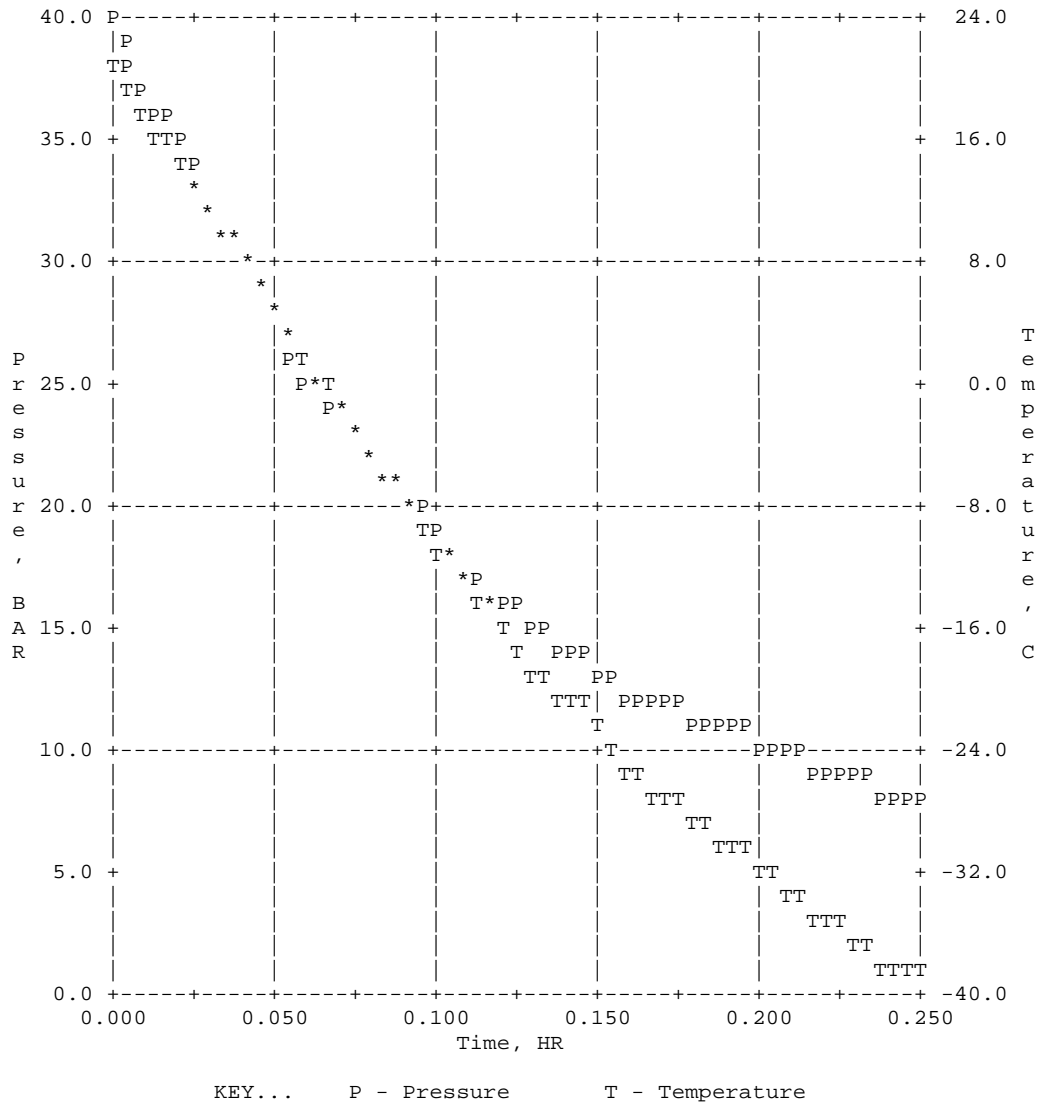
Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	21.2	1.300E+05	1258.342
1.0E-02	37.340	18.0	1.234E+05	1282.029
2.0E-02	34.703	14.6	1.112E+05	1325.139
3.0E-02	32.163	11.3	1.008E+05	1356.104
4.0E-02	29.759	7.9	91707.940	1380.911
5.0E-02	27.513	4.6	83590.726	1401.248
6.0E-02	25.434	1.3	76360.122	1418.078
7.0E-02	23.521	-1.9	69912.208	1432.070
8.0E-02	21.770	-4.9	64158.025	1443.723
9.0E-02	20.174	-7.9	59019.665	1453.432
1.0E-01	18.722	-10.7	54428.323	1461.512
0.110	17.405	-13.4	50323.065	1468.222
0.120	16.212	-16.0	46649.877	1473.776
0.130	15.132	-18.4	43360.874	1478.356
0.140	14.156	-20.8	40413.615	1482.112
0.150	13.273	-23.0	37770.496	1485.172
0.160	12.476	-25.1	35398.211	1487.648
0.170	11.755	-27.0	33267.262	1489.632
0.180	11.104	-28.9	31351.531	1491.205
0.190	10.516	-30.6	29627.892	1492.435
0.200	9.985	-32.2	28075.863	1493.381
0.210	9.504	-33.7	26677.300	1494.093
0.220	9.070	-35.2	25416.124	1494.615
0.230	8.677	-36.5	24278.078	1494.984
0.240	8.322	-37.7	23250.513	1495.230
0.250	8.000	-38.9	22322.164	1495.381

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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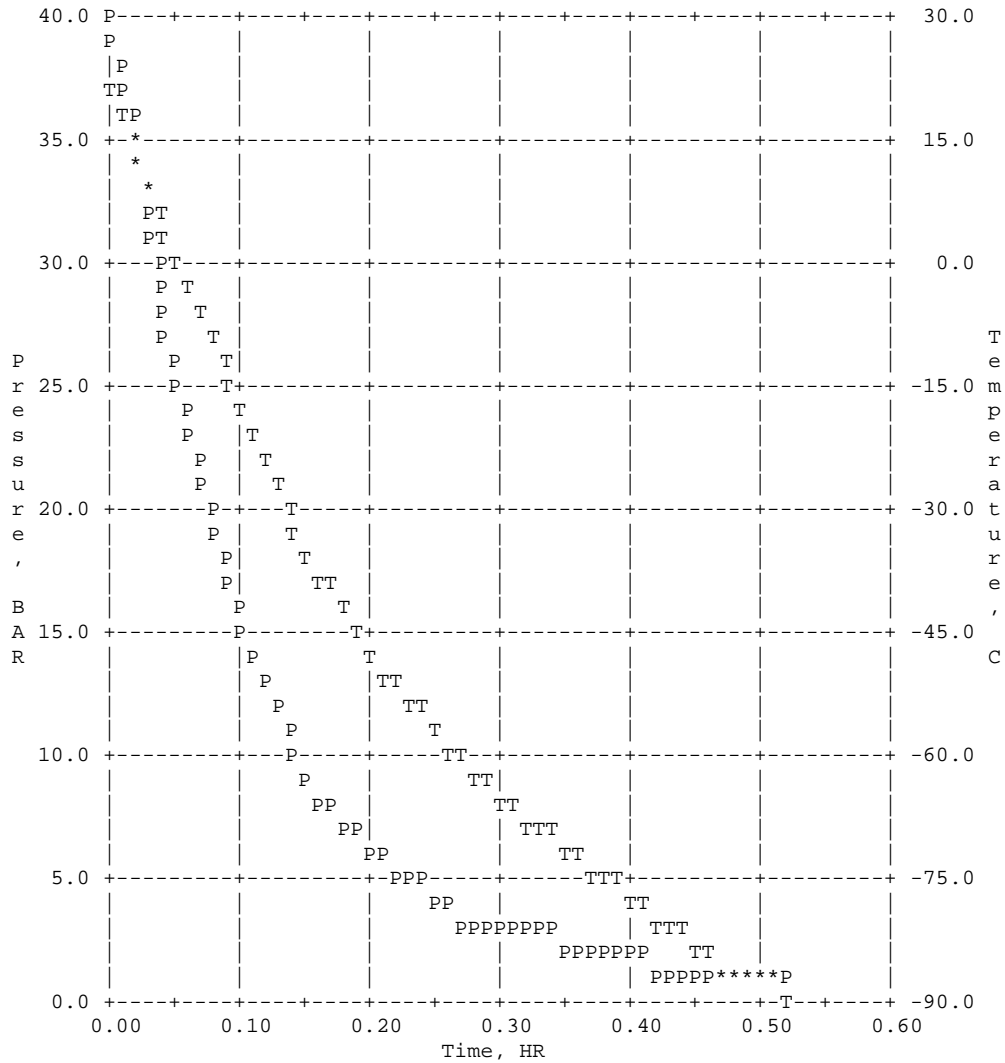
Cold depressurization

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	20.7	1.302E+05	1255.869
2.5E-02	31.769	10.2	1.126E+05	1303.303
5.0E-02	24.774	-3.6E-01	82849.277	1395.148
7.5E-02	19.244	-10.3	62445.513	1440.977
1.0E-01	15.000	-19.5	47733.273	1466.537
0.125	11.780	-27.8	36987.830	1480.053
0.150	9.342	-35.2	29056.766	1485.977
0.175	7.491	-41.9	23140.736	1487.019
0.200	6.077	-47.9	18678.754	1484.919
0.225	4.988	-53.3	15274.585	1480.824
0.250	4.141	-58.1	12646.838	1475.501
0.275	3.475	-62.4	10594.482	1469.464
0.300	2.947	-66.3	8972.890	1463.059
0.325	2.523	-69.9	7677.182	1456.514
0.350	2.180	-73.1	6630.634	1449.981
0.375	1.899	-76.0	5776.595	1443.557
0.400	1.667	-78.7	5072.834	1437.304
0.425	1.474	-81.2	4487.561	1431.258
0.450	1.312	-83.5	3996.613	1425.438
0.475	1.175	-85.6	3581.446	1419.852
0.500	1.058	-87.5	3227.701	1414.500
0.525	0.958	-89.3	2924.151	1409.380

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



KEY...    P - Pressure            T - Temperature

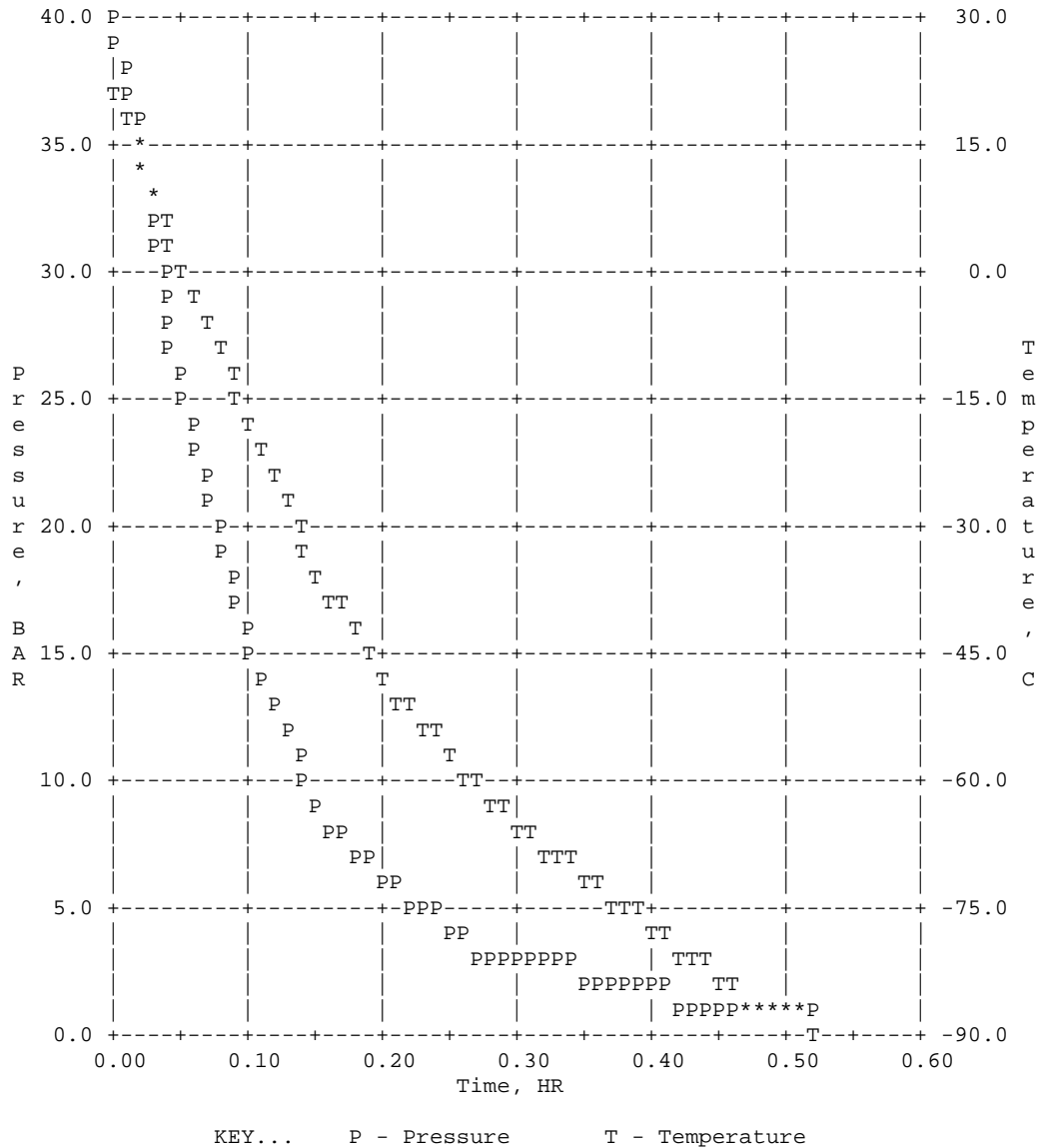
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	20.7	1.302E+05	1255.869
2.5E-02	31.769	10.2	1.126E+05	1303.303
5.0E-02	24.774	-3.6E-01	82849.277	1395.148
7.5E-02	19.244	-10.3	62445.513	1440.977
1.0E-01	15.000	-19.5	47733.273	1466.537
0.125	11.780	-27.8	36987.830	1480.053
0.150	9.342	-35.2	29056.766	1485.977
0.175	7.491	-41.9	23140.736	1487.019
0.200	6.077	-47.9	18678.754	1484.919
0.225	4.988	-53.3	15274.585	1480.824
0.250	4.141	-58.1	12646.838	1475.501
0.275	3.475	-62.4	10594.482	1469.464
0.300	2.947	-66.3	8972.890	1463.059
0.325	2.523	-69.9	7677.182	1456.514
0.350	2.180	-73.1	6630.634	1449.981
0.375	1.899	-76.0	5776.595	1443.557
0.400	1.667	-78.7	5072.834	1437.304
0.425	1.474	-81.2	4487.561	1431.258
0.450	1.312	-83.5	3996.613	1425.438
0.475	1.175	-85.6	3581.446	1419.852
0.500	1.058	-87.5	3227.701	1414.500
0.525	0.958	-89.3	2924.151	1409.380

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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### 5.6.7 BDV 0104

#### Volume Calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
105-D-102	105-E-106	63	vapor	0	0	28442	63.723	0.000	1.000	0	107
105-E-106	SDV- 0108	S10	vapor	0	0	28442	43.428	0.000	1.000	0	116
105-E-106	FV- 0108	S10	vapor	0	0	28442	43.428	0.000	1.000	0	11
	105-E-106	S10		0	0	28442	43.428	0.000	1.000	0	8
	TOTAL									0	241

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
105-D-102	105-E-106	8	8.63	D46	219.1	40S	8.18	202.74	7.982	16	36	0.000	1.679	1.679
105-E-106	SDV- 0108	8	8.63	D46	219.1	40S	8.18	202.74	7.982	8	75	0.000	2.679	2.679
105-E-106	FV- 0108	6	6.63	D46	168.3	40S	7.11	154.08	6.066	8	5	0.000	0.242	0.242
	105-E-106											0.000	0.173	0.173
	TOTAL											0.000	4.774	4.774

#### Wetted Area Calculation:

In the system there is no liquid phase and therefore no wetted surface.



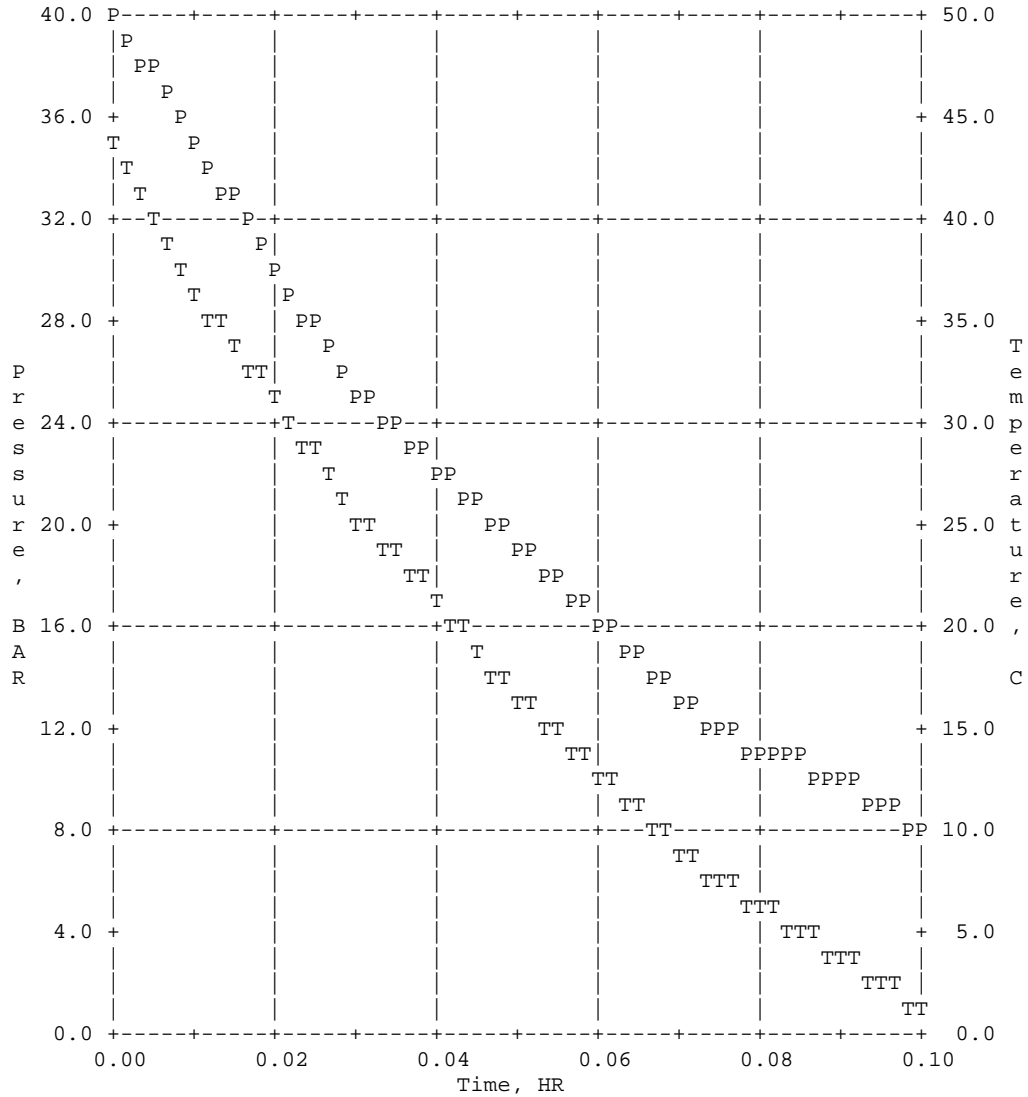
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	43.2	5382.892	79.967
1.0E-02	34.508	36.8	4989.140	80.356
2.0E-02	29.686	30.9	4254.630	81.184
3.0E-02	25.457	25.5	3619.764	81.970
4.0E-02	21.760	20.7	3072.236	82.696
5.0E-02	18.540	16.4	2601.424	83.356
6.0E-02	15.750	12.6	2197.900	83.946
7.0E-02	13.343	9.2	1853.195	84.469
8.0E-02	11.275	6.3	1559.681	84.927
9.0E-02	9.507	3.7	1310.505	85.326
0.100	8.000	1.5	1099.545	85.670

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

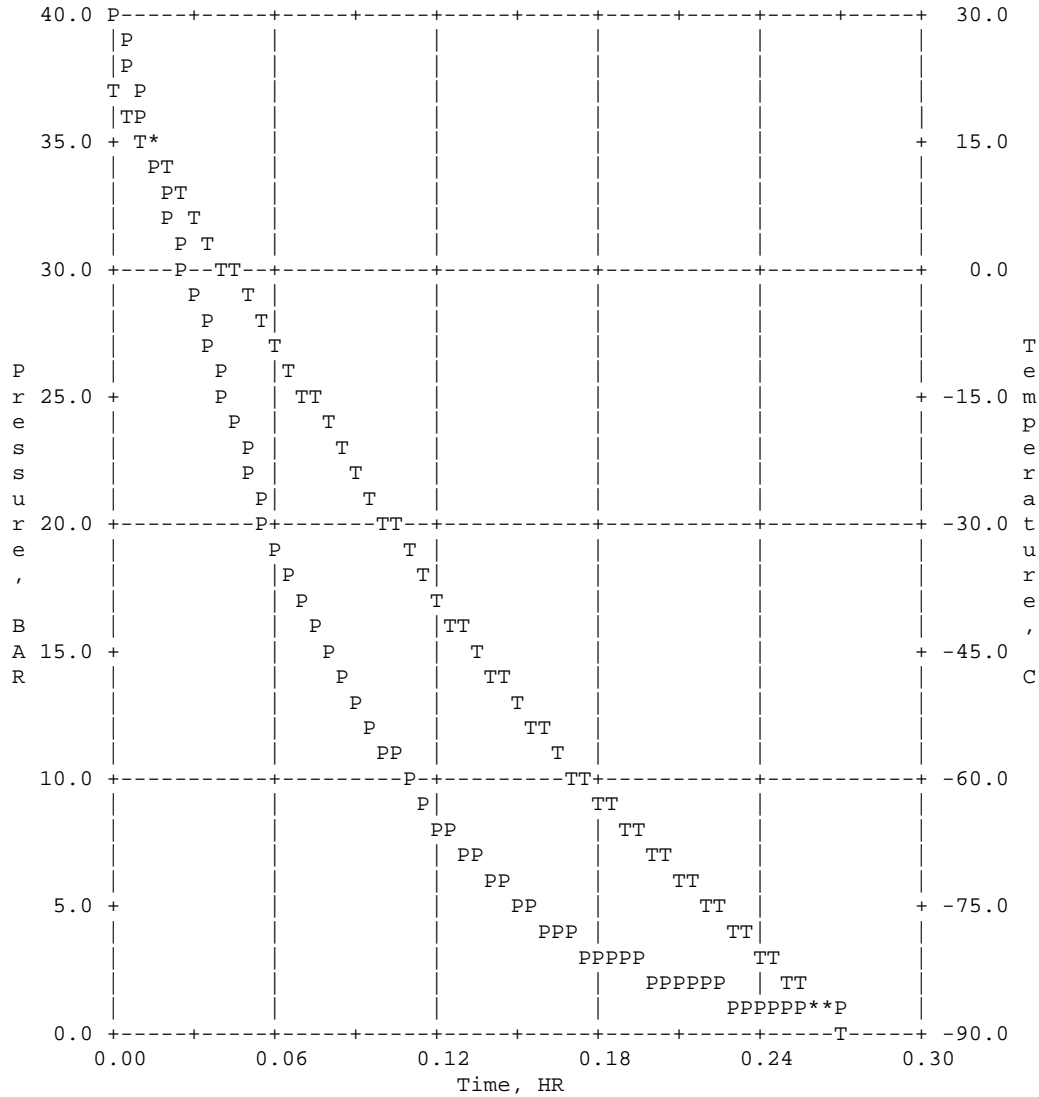
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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Cold depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	21.0	6584.703	65.704
3.0E-02	28.526	5.3	5441.616	68.103
6.0E-02	19.371	-10.2	3541.669	73.138
9.0E-02	12.749	-25.2	2301.378	75.480
0.120	8.239	-39.1	1486.770	76.343
0.150	5.276	-51.8	957.490	76.334
0.180	3.373	-63.1	617.127	75.797
0.210	2.165	-73.2	399.638	74.951
0.240	1.402	-82.2	260.947	73.940
0.270	0.920	-90.0	172.340	72.860

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

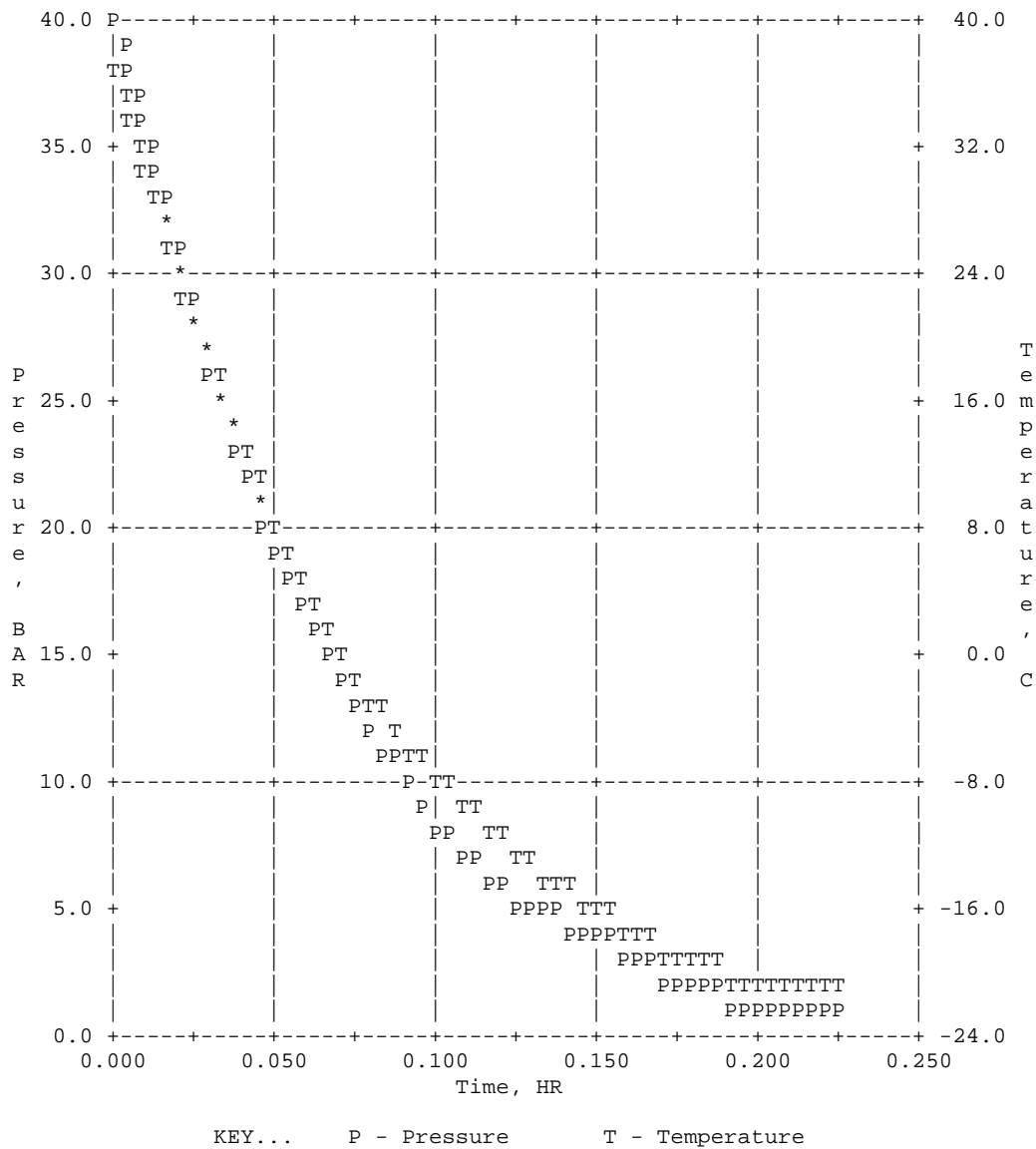
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	37.0	5587.524	77.430
2.5E-02	27.870	21.0	4688.374	78.287
5.0E-02	19.026	8.2	3158.685	80.291
7.5E-02	12.728	-1.4	2095.964	81.931
1.0E-01	8.374	-8.4	1372.235	83.161
0.125	5.441	-13.3	889.073	84.033
0.150	3.505	-16.5	571.690	84.628
0.175	2.244	-18.7	365.687	85.025
0.200	1.432	-20.2	233.093	85.285
0.225	0.911	-21.1	148.232	85.453

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.6.8 BDV 0105

#### Volume Calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
Unit 111	105-E-106	141	liquid	205710	429.478	0	0	1.000	0.000	2598	0
105-E-106	Unit 104	141A	liquid	205710	439.657	0	0	1.000	0.000	2268	0
105-E-106	Cold Box	141C	liquid	26532	439.657	0	0	1.000	0.000	984	0
	105-E-106	141A	liquid	205710	439.657	0	0	1.000	0.000	379	0
	<b>TOTAL</b>									6228	0

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
Unit 111	105-E-106	14	14.00	D21	355.6	30	9.53	336.54	13.250	8	60	6.049	0.000	6.049
105-E-106	Unit 104	14	14.00	D21	355.6	30	9.53	336.54	13.250	8	50	5.159	0.000	5.159
105-E-106	Cold Box	6	6.63	D21	168.3	40	7.11	154.08	6.066	0	120	2.238	0.000	2.238
	105-E-106											0.861	0.000	0.861
	<b>TOTAL</b>											14.307	0.000	14.307

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Wetted area calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
Unit 111	105-E-106	141	liquid	205710	429.478	0	0	26.432	8.458	17.974	26.432
105-E-106	Unit 104	141A	liquid	205710	439.657	0	0	26.432	8.458	17.974	26.432
105-E-106	Cold Box	141C	liquid	26532	439.657	0	0	9.681	0.000	9.681	9.681
	105-E-106	141A	liquid	205710	439.657	0	0				6.895
	<b>TOTAL</b>	<b>QUANTITY</b>						62.545	16.916	45.628	69.440





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

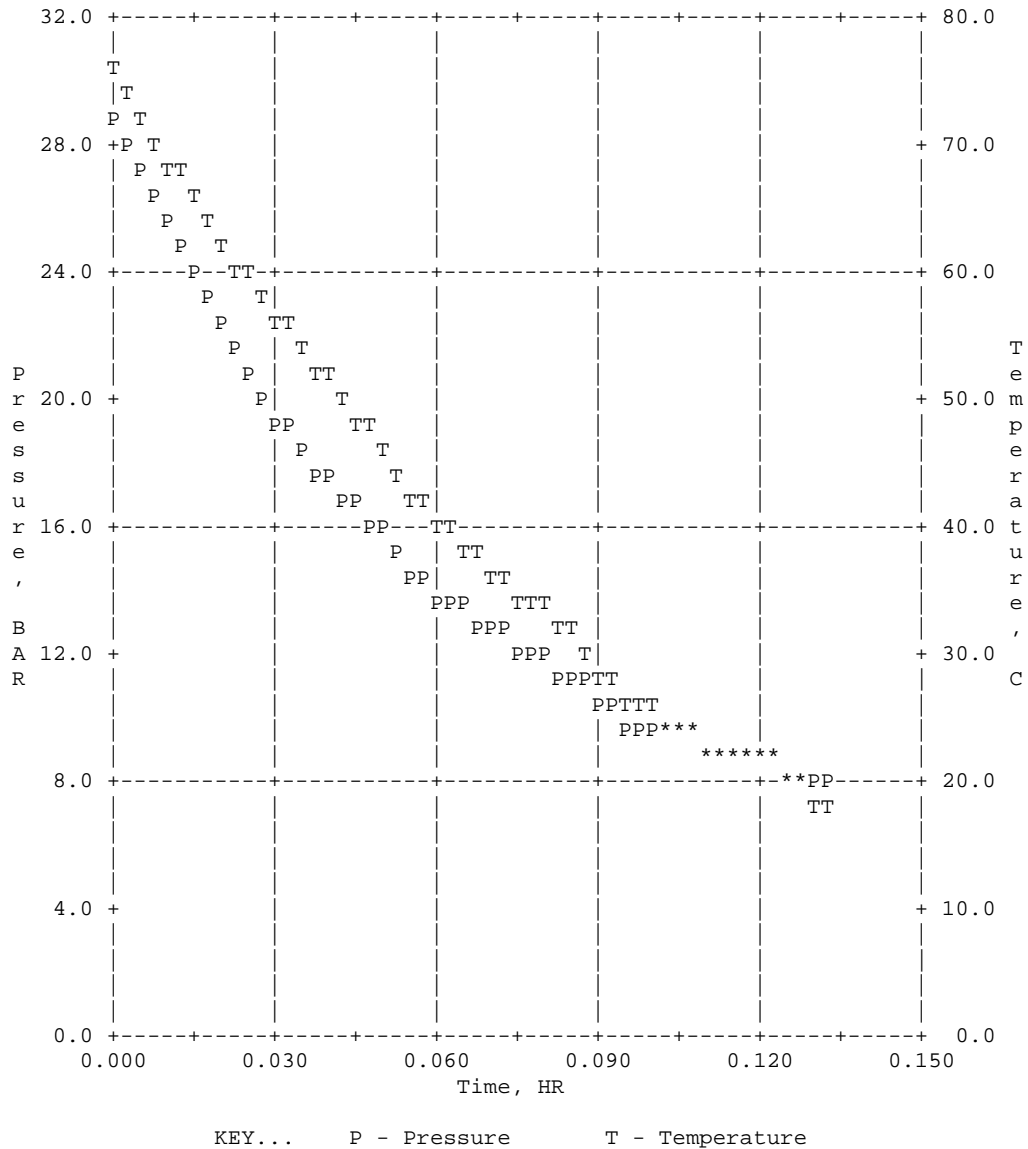
Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	75.6	65862.896	864.675
7.0E-03	26.535	70.9	62484.398	872.698
1.4E-02	24.272	66.4	56166.285	888.206
2.1E-02	22.210	62.0	50669.935	900.729
2.8E-02	20.344	57.7	45870.771	910.901
3.5E-02	18.666	53.7	41671.864	919.177
4.2E-02	17.163	49.8	37994.953	925.904
4.9E-02	15.822	46.1	34774.727	931.355
5.6E-02	14.631	42.7	31954.359	935.751
6.3E-02	13.574	39.5	29484.844	939.273
7.0E-02	12.641	36.5	27323.377	942.074
7.7E-02	11.817	33.7	25432.469	944.281
8.4E-02	11.093	31.1	23779.281	946.001
9.1E-02	10.456	28.7	22334.923	947.324
9.8E-02	9.898	26.6	21074.234	948.326
0.105	9.410	24.6	19975.224	949.072
0.112	8.984	22.9	19018.488	949.613
0.119	8.613	21.3	18187.113	949.994
0.126	8.291	19.9	17466.278	950.252
0.133	8.012	18.6	16842.986	950.417
0.133	8.000	18.6	16541.513	950.482

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



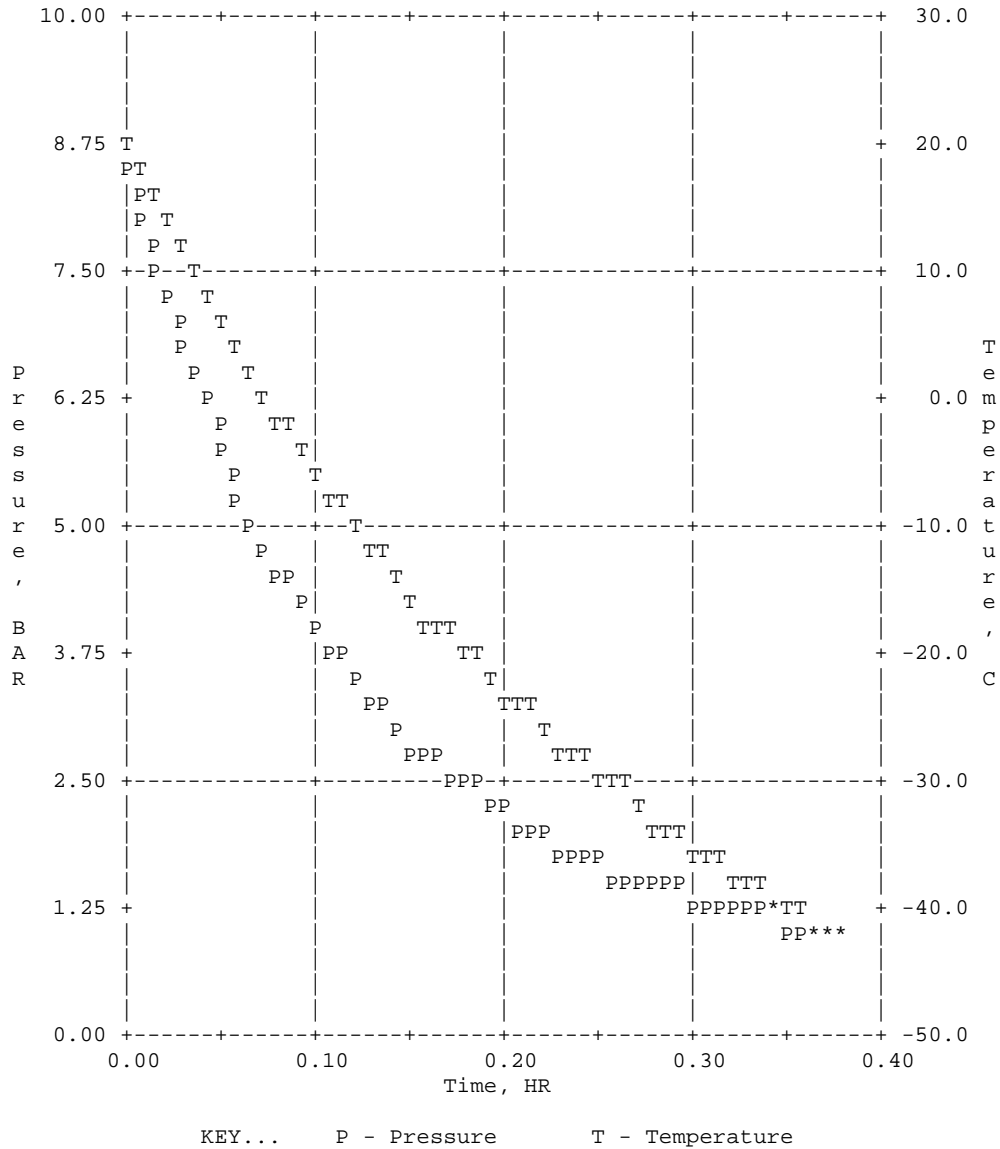
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	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



Cold depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.620	21.0	17795.525	949.407
1.0E-02	7.896	17.7	17045.428	949.584
2.0E-02	7.249	14.6	15626.722	949.792
3.0E-02	6.668	11.6	14360.800	949.686
4.0E-02	6.147	8.8	13228.652	949.318
5.0E-02	5.678	6.0	12213.850	948.733
6.0E-02	5.255	3.5	11302.176	947.966
7.0E-02	4.874	9.7E-01	10481.306	947.051
8.0E-02	4.529	-1.4	9740.550	946.012
9.0E-02	4.217	-3.7	9070.614	944.873
1.0E-01	3.933	-5.8	8463.411	943.653
0.110	3.675	-7.9	7911.891	942.368
0.120	3.440	-9.9	7409.896	941.032
0.130	3.226	-11.8	6952.041	939.656
0.140	3.030	-13.6	6533.605	938.250
0.150	2.850	-15.4	6150.445	936.822
0.160	2.685	-17.1	5798.916	935.381
0.170	2.533	-18.7	5475.806	933.931
0.180	2.394	-20.3	5178.279	932.477
0.190	2.265	-21.8	4903.826	931.025
0.200	2.146	-23.2	4650.223	929.577
0.210	2.036	-24.6	4415.497	928.136
0.220	1.934	-26.0	4197.891	926.705
0.230	1.839	-27.3	3995.840	925.286
0.240	1.751	-28.5	3807.946	923.881
0.250	1.669	-29.8	3632.960	922.491
0.260	1.592	-30.9	3469.762	921.116
0.270	1.521	-32.1	3317.346	919.759
0.280	1.454	-33.2	3174.807	918.419
0.290	1.392	-34.2	3041.333	917.098
0.300	1.333	-35.3	2916.188	915.795
0.310	1.278	-36.3	2798.708	914.511
0.320	1.227	-37.2	2688.292	913.246
0.330	1.178	-38.2	2584.396	912.000
0.340	1.133	-39.1	2486.524	910.773
0.350	1.090	-40.0	2394.229	909.565
0.360	1.049	-40.8	2307.102	908.376
0.365	1.029	-41.3	2244.485	907.487
0.375	0.992	-42.1	2185.268	906.628

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

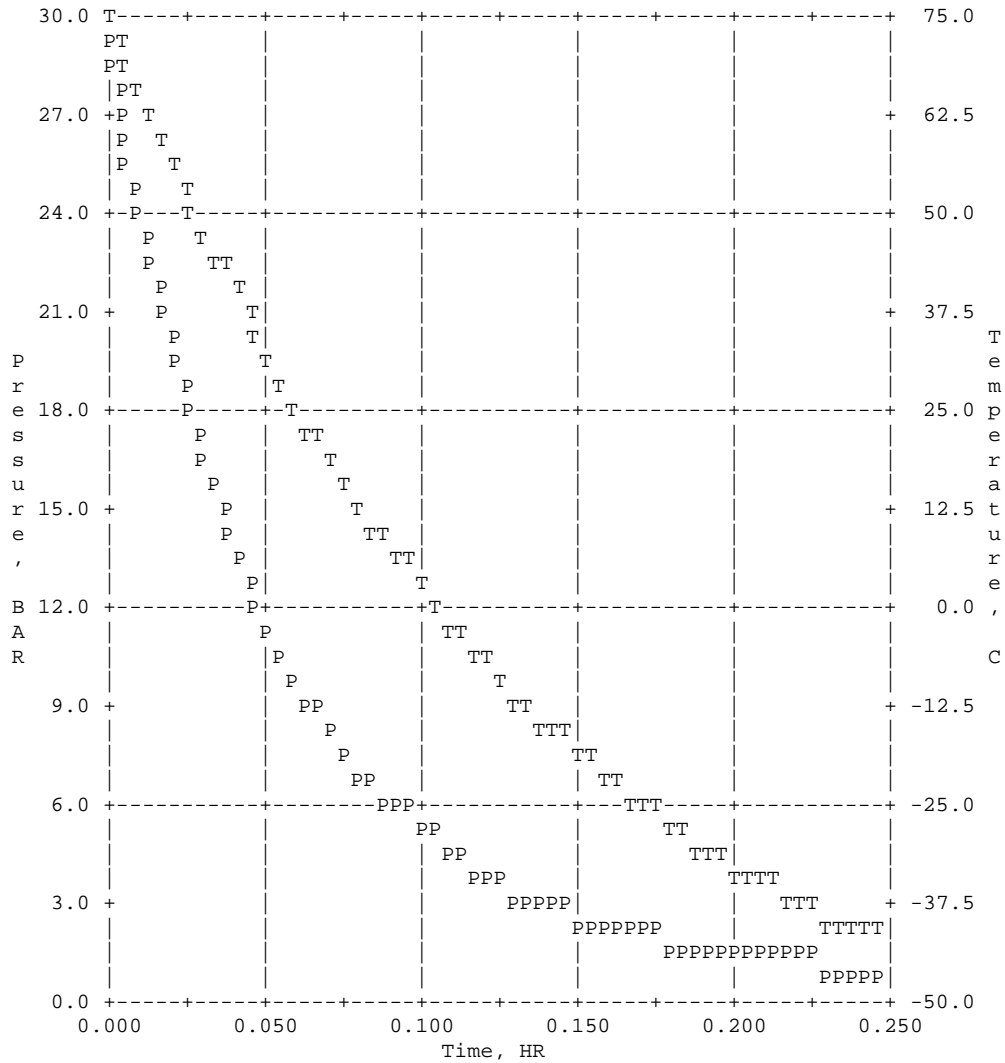
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	75.6	65799.644	863.834
1.0E-02	24.166	66.2	59364.561	877.674
2.0E-02	20.057	57.0	47914.916	904.500
3.0E-02	16.628	48.3	38976.616	922.394
4.0E-02	13.800	40.1	31916.577	934.303
5.0E-02	11.487	32.4	26307.860	941.972
6.0E-02	9.602	25.3	21833.863	946.562
7.0E-02	8.069	18.6	18250.709	948.897
8.0E-02	6.822	12.5	15368.132	949.582
9.0E-02	5.804	6.9	13037.358	949.064
1.0E-01	4.971	1.7	11142.149	947.678
0.110	4.285	-3.0	9591.777	945.676
0.120	3.718	-7.4	8315.452	943.247
0.130	3.247	-11.5	7257.889	940.529
0.140	2.853	-15.3	6375.854	937.629
0.150	2.521	-18.7	5635.442	934.622
0.160	2.241	-22.0	5009.943	931.567
0.170	2.002	-25.0	4478.233	928.505
0.180	1.798	-27.8	4023.527	925.465
0.190	1.622	-30.4	3632.422	922.469
0.200	1.469	-32.8	3294.154	919.532
0.210	1.337	-35.1	3000.033	916.665
0.220	1.221	-37.3	2743.004	913.873
0.230	1.119	-39.3	2517.310	911.160
0.240	1.030	-41.2	2318.223	908.528
0.245	0.989	-42.1	2182.078	906.564

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Rev. : 3 Class: 2</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		

**5.7 UNIT 106**

**5.7.1 BDV 0005**

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)			(kg)	(kg)
ESDV-0001	106-D-1/2/3/401		VAPOR	0	0	376148	19.76	0.0000	1.0000	0	942
ESDV-0001	106-D-1/2/3/401		VAPOR	0	0	376148	19.76	0.0000	1.0000	0	3390
ESDV-0001	ESDV-0011		VAPOR	0	0	376148	21.912	0.0000	1.0000	0	345
ESDV-0003	106-D-101		VAPOR	0	0	376148	19.76	0.0000	1.0000	0	911
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
										0	0
										0	0
										0	0
										0	0
										0	0
										0	0
										0	0
										0	0
<b>TOTAL</b>										0	5589

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL	TOTAL VOLUME
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
ESDV-0001	106-D-1/2/3/401	40	1018	6.02	1006.0	39.60	0	60	0.000	47.687	47.687
ESDV-0001	106-D-1/2/3/401	48	1219	15.88	1187.2	46.74	0	155	0.000	171.593	171.593
ESDV-0001	ESDV-0011	24	610	15.88	578.2	22.77	60	0	0.000	15.756	15.756
ESDV-0003	106-D-101	40	1018	14.27	989.5	38.96	0	60	0.000	46.136	46.136
					0.0	0.00			0.000	0.000	0.000
					0.0	0.00			0.000	0.000	0.000
					0.0	0.00			0.000	0.000	0.000
											0
											0.000
											0.000
											0.000
											0.000
<b>TOTAL</b>									0.000	281.172	281.172

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

DEPRESSURING SUMMARY (Winter Case)

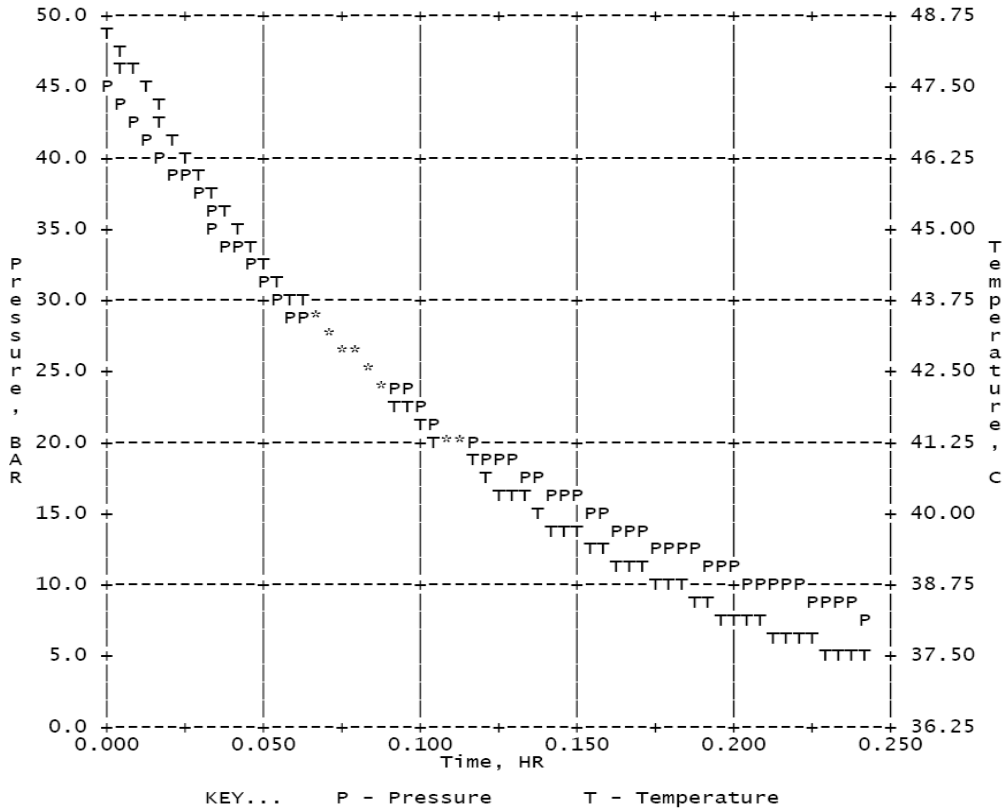
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	45. 000	48. 4	60870. 958	2012. 659
5. 6E-03	43. 236	47. 9	59677. 677	2012. 669
1. 1E-02	41. 576	47. 4	57360. 893	2012. 705
1. 7E-02	39. 980	46. 9	55157. 028	2012. 776
2. 2E-02	38. 447	46. 5	53038. 171	2012. 877
2. 7E-02	36. 973	46. 0	51001. 363	2013. 005
3. 3E-02	35. 557	45. 6	49043. 317	2013. 156
3. 8E-02	34. 195	45. 2	47160. 899	2013. 327
4. 4E-02	32. 886	44. 8	45351. 113	2013. 516
4. 9E-02	31. 628	44. 4	43611. 090	2013. 720
5. 5E-02	30. 418	44. 0	41938. 085	2013. 936
6. 0E-02	29. 255	43. 7	40329. 466	2014. 164
6. 6E-02	28. 136	43. 4	38782. 715	2014. 400
7. 1E-02	27. 061	43. 0	37295. 416	2014. 644
7. 7E-02	26. 026	42. 7	35865. 254	2014. 894
8. 2E-02	25. 032	42. 4	34490. 006	2015. 148
8. 8E-02	24. 075	42. 1	33167. 543	2015. 406
9. 3E-02	23. 155	41. 9	31895. 821	2015. 665
9. 9E-02	22. 270	41. 6	30672. 875	2015. 926
0. 104	21. 419	41. 3	29496. 824	2016. 188
0. 110	20. 600	41. 1	28365. 858	2016. 448
0. 115	19. 813	40. 9	27278. 240	2016. 708
0. 121	19. 056	40. 6	26232. 301	2016. 966
0. 126	18. 327	40. 4	25226. 438	2017. 221
0. 131	17. 627	40. 2	24259. 112	2017. 474
0. 137	16. 953	40. 0	23328. 843	2017. 724
0. 142	16. 305	39. 8	22434. 209	2017. 970
0. 148	15. 681	39. 6	21573. 842	2018. 212
0. 153	15. 081	39. 5	20746. 430	2018. 450
0. 159	14. 505	39. 3	19950. 710	2018. 683
0. 164	13. 950	39. 1	19185. 467	2018. 912
0. 170	13. 416	39. 0	18449. 534	2019. 137
0. 175	12. 903	38. 8	17741. 790	2019. 356
0. 181	12. 409	38. 7	17061. 156	2019. 571
0. 186	11. 934	38. 5	16406. 594	2019. 780
0. 192	11. 478	38. 4	15777. 106	2019. 985
0. 197	11. 038	38. 3	15171. 734	2020. 184
0. 202	10. 616	38. 1	14589. 554	2020. 379
0. 208	10. 209	38. 0	14029. 680	2020. 568
0. 213	9. 818	37. 9	13491. 259	2020. 752
0. 219	9. 442	37. 8	12973. 469	2020. 931
0. 224	9. 081	37. 7	12475. 522	2021. 105
0. 230	8. 733	37. 6	11996. 659	2021. 274
0. 235	8. 398	37. 5	11536. 150	2021. 439
0. 238	8. 236	37. 4	11200. 799	2021. 561
0. 243	7. 917	37. 4	10876. 219	2021. 678



UNIT 5 SOLVED - ' 106-BDV-0005-Fi re '



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 5, '106-BDV-0005-Fire' (Cont)  
Pressure and Temperature Profiles



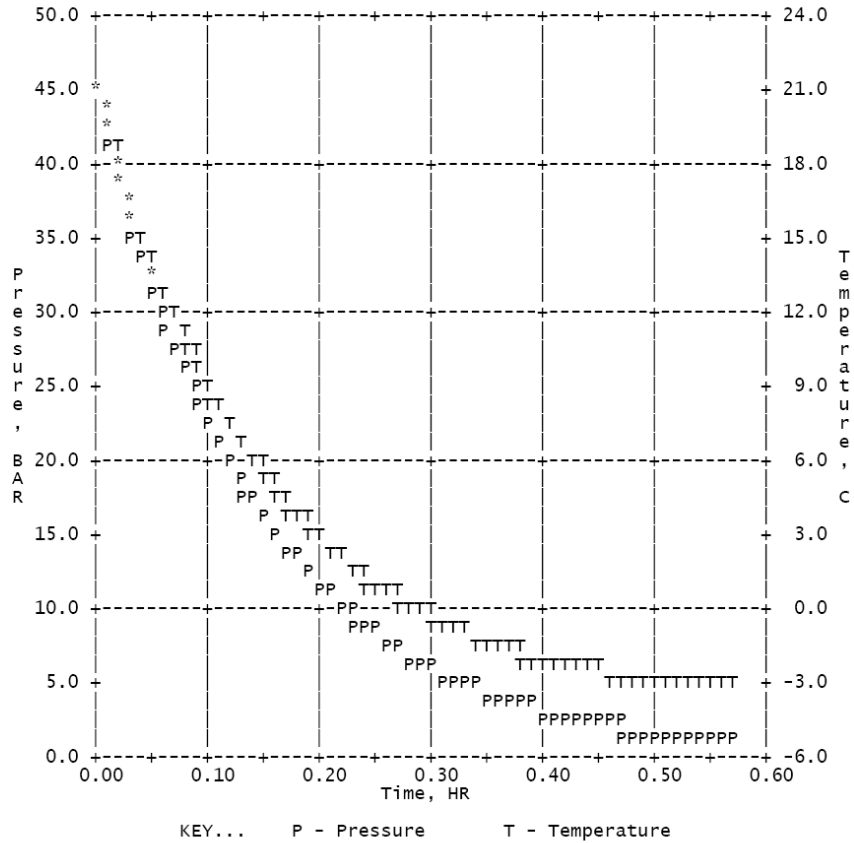
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	45. 000	21. 0	64484. 113	1899. 887
1. 2E-02	41. 495	19. 2	60721. 621	1898. 515
2. 3E-02	38. 307	17. 5	56097. 416	1896. 979
3. 5E-02	35. 374	15. 9	51832. 467	1895. 731
4. 7E-02	32. 673	14. 5	47897. 608	1894. 724
5. 8E-02	30. 184	13. 1	44265. 982	1893. 919
7. 0E-02	27. 890	11. 9	40913. 200	1893. 283
8. 2E-02	25. 773	10. 7	37817. 055	1892. 787
9. 3E-02	23. 820	9. 6	34957. 279	1892. 408
0. 105	22. 017	8. 6	32315. 345	1892. 125
0. 116	20. 352	7. 7	29874. 283	1891. 922
0. 128	18. 814	6. 8	27618. 529	1891. 784
0. 140	17. 394	6. 1	25533. 791	1891. 700
0. 151	16. 081	5. 3	23606. 932	1891. 658
0. 163	14. 868	4. 6	21825. 862	1891. 651
0. 175	13. 746	4. 0	20179. 449	1891. 672
0. 186	12. 710	3. 4	18657. 436	1891. 714
0. 198	11. 752	2. 9	17250. 364	1891. 773
0. 210	10. 866	2. 4	15949. 509	1891. 844
0. 221	10. 047	1. 9	14746. 820	1891. 924
0. 233	9. 290	1. 5	13634. 865	1892. 011
0. 245	8. 590	1. 1	12606. 781	1892. 102
0. 256	7. 943	7. 3E-01	11656. 229	1892. 195
0. 268	7. 344	3. 9E-01	10777. 353	1892. 289
0. 280	6. 791	7. 5E-02	9964. 742	1892. 382
0. 291	6. 279	-2. 2E-01	9213. 395	1892. 474
0. 303	5. 806	-4. 8E-01	8518. 692	1892. 564
0. 315	5. 368	-7. 3E-01	7876. 360	1892. 652
0. 326	4. 964	-9. 6E-01	7282. 450	1892. 736
0. 338	4. 590	-1. 2	6733. 312	1892. 818
0. 350	4. 244	-1. 4	6225. 571	1892. 895
0. 361	3. 924	-1. 6	5756. 106	1892. 969
0. 373	3. 628	-1. 7	5322. 035	1893. 040
0. 385	3. 355	-1. 9	4920. 687	1893. 106
0. 396	3. 102	-2. 0	4549. 597	1893. 170
0. 408	2. 868	-2. 2	4206. 486	1893. 229
0. 419	2. 652	-2. 3	3889. 243	1893. 285
0. 431	2. 452	-2. 4	3595. 920	1893. 338
0. 443	2. 267	-2. 5	3324. 714	1893. 388
0. 454	2. 096	-2. 6	3073. 957	1893. 434
0. 466	1. 938	-2. 7	2842. 109	1893. 478
0. 478	1. 792	-2. 8	2627. 744	1893. 518
0. 489	1. 657	-2. 8	2429. 544	1893. 556
0. 501	1. 532	-2. 9	2246. 290	1893. 592
0. 513	1. 416	-3. 0	2076. 857	1893. 625
0. 524	1. 309	-3. 0	1920. 201	1893. 656
0. 536	1. 211	-3. 1	1775. 359	1893. 684
0. 548	1. 119	-3. 2	1641. 442	1893. 711
0. 559	1. 035	-3. 2	1517. 624	1893. 736
0. 568	0. 975	-3. 2	1430. 657	1893. 754
UNIT	6	SOLVED	- ' 106-BDV-0005-Col d	'

UNIT 6, '106-BDV-0005-co1d' (cont)



Pressure and Temperature Profiles



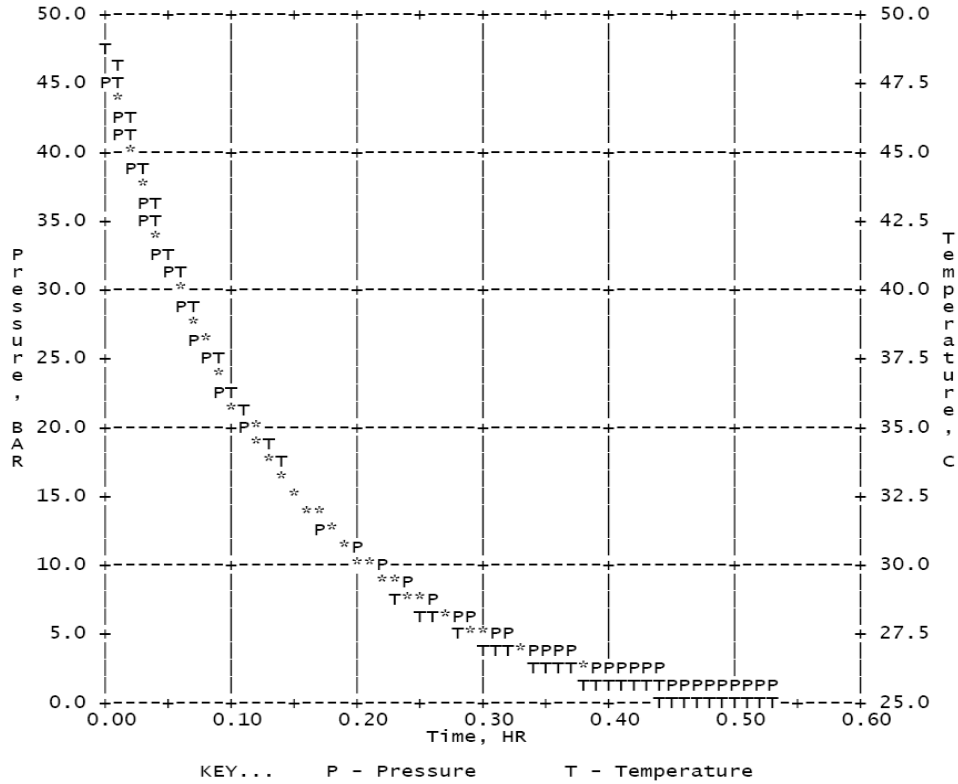
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	45. 000	48. 4	60870. 958	2012. 659
1. 1E-02	41. 463	46. 7	57302. 670	2010. 608
2. 2E-02	38. 247	45. 0	52918. 649	2008. 185
3. 3E-02	35. 291	43. 5	48876. 786	2006. 070
4. 4E-02	32. 572	42. 1	45149. 364	2004. 222
5. 5E-02	30. 069	40. 8	41710. 794	2002. 605
6. 6E-02	27. 763	39. 5	38537. 791	2001. 189
7. 7E-02	25. 638	38. 4	35609. 124	1999. 948
8. 8E-02	23. 679	37. 3	32905. 400	1998. 857
9. 9E-02	21. 873	36. 4	30408. 879	1997. 898
0. 110	20. 207	35. 5	28103. 310	1997. 054
0. 121	18. 669	34. 6	25973. 790	1996. 310
0. 132	17. 250	33. 9	24006. 638	1995. 653
0. 143	15. 939	33. 1	22189. 280	1995. 072
0. 154	14. 730	32. 5	20510. 156	1994. 557
0. 165	13. 613	31. 9	18958. 627	1994. 101
0. 176	12. 581	31. 3	17524. 896	1993. 696
0. 188	11. 628	30. 8	16199. 939	1993. 336
0. 199	10. 747	30. 3	14975. 438	1993. 015
0. 210	9. 934	29. 8	13843. 724	1992. 728
0. 221	9. 182	29. 4	12797. 723	1992. 473
0. 232	8. 487	29. 0	11830. 909	1992. 244
0. 243	7. 845	28. 6	10937. 260	1992. 039
0. 254	7. 252	28. 3	10111. 215	1991. 855
0. 265	6. 704	28. 0	9347. 642	1991. 690
0. 276	6. 197	27. 7	8641. 800	1991. 541
0. 287	5. 729	27. 5	7989. 315	1991. 407
0. 298	5. 296	27. 2	7386. 140	1991. 286
0. 309	4. 896	27. 0	6828. 542	1991. 177
0. 320	4. 526	26. 8	6313. 071	1991. 079
0. 331	4. 185	26. 6	5836. 537	1990. 989
0. 343	3. 869	26. 4	5395. 995	1990. 908
0. 354	3. 576	26. 2	4988. 724	1990. 835
0. 365	3. 306	26. 1	4612. 208	1990. 768
0. 376	3. 057	25. 9	4264. 120	1990. 707
0. 387	2. 826	25. 8	3942. 314	1990. 652
0. 398	2. 613	25. 7	3644. 802	1990. 601
0. 409	2. 415	25. 6	3369. 749	1990. 555
0. 420	2. 233	25. 5	3115. 460	1990. 514
0. 431	2. 065	25. 4	2880. 364	1990. 475
0. 442	1. 909	25. 3	2663. 014	1990. 440
0. 453	1. 765	25. 2	2462. 067	1990. 408
0. 464	1. 632	25. 1	2276. 288	1990. 379
0. 475	1. 508	25. 1	2104. 529	1990. 352
0. 487	1. 395	25. 0	1945. 732	1990. 327
0. 498	1. 289	24. 9	1798. 919	1990. 305
0. 509	1. 192	24. 9	1663. 185	1990. 284
0. 525	1. 060	24. 8	1478. 545	1990. 256
0. 534	0. 999	24. 8	1380. 260	1990. 241
UNIT	7	SOLVED	- ' 106-BDV-0005-Spurious '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 7, '106-BDV-0005-Spurious' (Cont)  
Pressure and Temperature Profiles

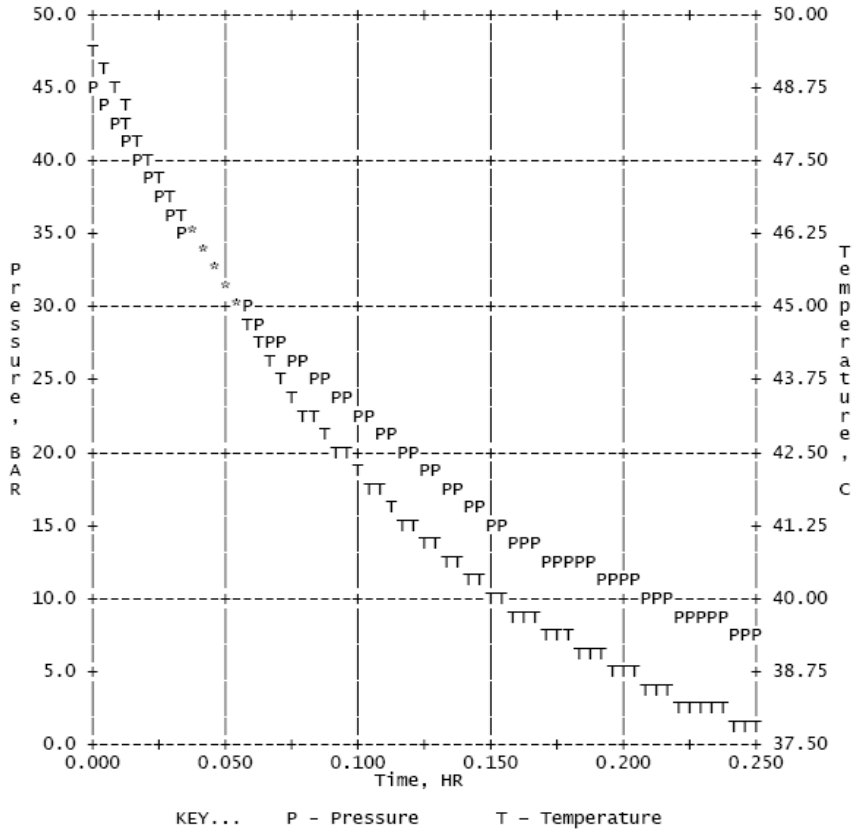


	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	45.000	49.4	60745.520	2016.815
2.5E-02	37.593	47.1	55746.575	2016.793
5.0E-02	31.421	45.2	46576.858	2016.996
7.5E-02	26.269	43.6	38922.495	2017.636
1.0E-01	21.963	42.2	32527.512	2018.502
0.125	18.362	41.1	27182.234	2019.459
0.150	15.350	40.1	22713.467	2020.422
0.175	12.830	39.4	18977.350	2021.342
0.200	10.722	38.7	15853.966	2022.192
0.225	8.959	38.2	13243.133	2022.959
0.250	7.485	37.7	11061.056	2023.639
UNIT	5	SOLVED	- '106-BDV-0005-F'	

UNIT 5, '106-BDV-0005-F' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

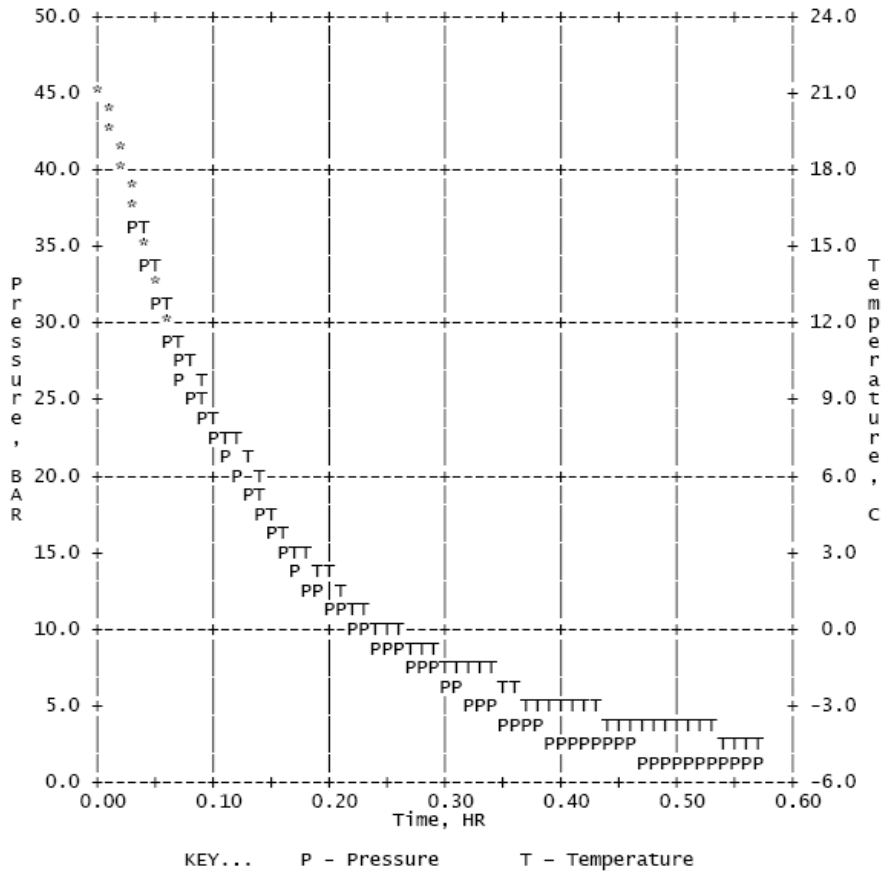
DEPRESSURING SUMMARY (Summer Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	45.000	21.0	64471.098	1900.270
2.5E-02	37.835	17.1	59395.951	1898.437
5.0E-02	31.866	13.8	50067.742	1895.046
7.5E-02	26.870	11.0	42241.004	1892.811
1.0E-01	22.675	8.6	35658.676	1891.370
0.125	19.146	6.5	30113.917	1890.474
0.150	16.172	4.8	25437.956	1889.946
0.175	13.663	3.3	21491.660	1889.664
0.200	11.544	2.1	18159.461	1889.545
0.225	9.755	1.0	15344.846	1889.529
0.250	8.244	1.2E-01	12966.901	1889.576
0.275	6.967	-6.4E-01	10957.607	1889.660
0.300	5.888	-1.3	9259.678	1889.762
0.325	4.976	-1.8	7824.805	1889.871
0.350	4.205	-2.3	6612.211	1889.979
0.375	3.553	-2.7	5587.463	1890.082
0.400	3.003	-3.0	4721.466	1890.177
0.425	2.537	-3.3	3989.639	1890.264
0.450	2.144	-3.5	3371.204	1890.341
0.475	1.812	-3.7	2848.600	1890.409
0.500	1.531	-3.9	2406.986	1890.469
0.525	1.294	-4.0	2033.816	1890.521
0.550	1.093	-4.1	1718.487	1890.566
0.575	0.924	-4.2	1452.037	1890.605
UNI T	6	SOLVED	- ' 106-BDV-0005-C	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 6, '106-BDV-0005-C', 'Summer' (Cont)  
Pressure and Temperature Profiles



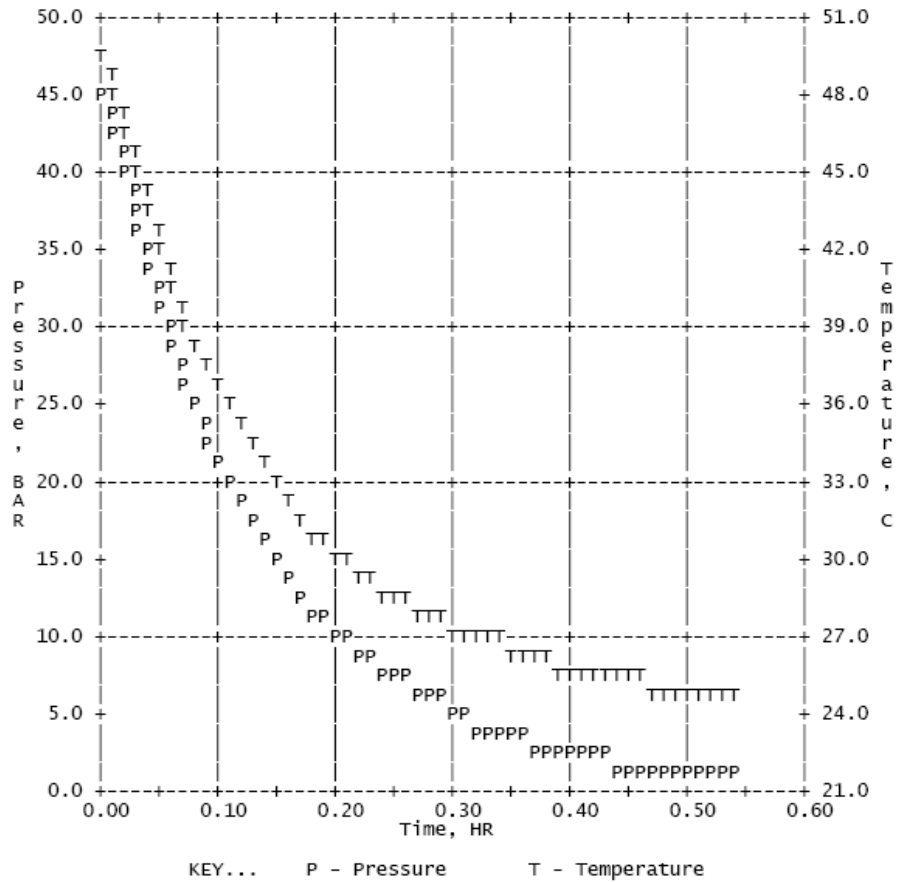
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	45.000	49.4	60745.520	2016.815
2.5E-02	37.370	45.4	55674.454	2013.950
5.0E-02	31.098	42.0	46406.143	2008.385
7.5E-02	25.918	39.1	38724.838	2004.234
1.0E-01	21.626	36.7	32342.104	2001.109
0.125	18.060	34.7	27028.240	1998.737
0.150	15.091	33.0	22598.007	1996.922
0.175	12.616	31.6	18900.605	1995.522
0.200	10.551	30.4	15812.402	1994.432
0.225	8.827	29.3	13231.510	1993.579
0.250	7.385	28.5	11073.634	1992.905
0.275	6.181	27.8	9268.827	1992.370
0.300	5.173	27.2	7758.927	1991.942
0.325	4.330	26.7	6495.491	1991.598
0.350	3.625	26.3	5438.121	1991.320
0.375	3.035	25.9	4553.099	1991.094
0.400	2.541	25.6	3812.259	1990.909
0.425	2.127	25.4	3192.064	1990.758
0.450	1.781	25.2	2672.835	1990.635
0.475	1.491	25.0	2238.112	1990.532
0.500	1.249	24.9	1874.127	1990.448
0.525	1.046	24.7	1569.360	1990.378
0.537	0.957	24.7	1369.855	1990.334
UNIT	7	SOLVED	- ' 106-BDV-0005-S '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 7, '106-BDV-0005-S' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company  Rev. : 3 Class: 2
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

**5.7.2 BDV 0007**

FROM	TO	STREAM TAG	PHASE	LIQUID RATE (kg/h)	LIQUID DENSITY (kg/m3)	VAPOR RATE (kg/h)	VAPOR DENSITY (kg/m3)	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT (kg)	VAPOR WEIGHT (kg)
SDV-0029	ESDV0008	72	VAPOR	0	0	376148	62.83	0.0000	1.0000	0	687
106-A-101	ESDV0008	72	VAPOR	0	0	376148	62.83	0.0000	1.0000	0	7477
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
										0	0
										0	0
										0	0
										0	0
										0	0
	<b>TOTAL</b>									0	8164

FROM	TO	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL	TOTAL VOLUME
		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0029	ESDV0008	30.96	446.1	17.56	70	0	0.000	10.940	10.940
106-A-101	ESDV0008	30.96	1005.1	39.57	0	150	0.000	119.010	119.010
			0.0	0.00			0.000	0.000	0.000
			0.0	0.00			0.000	0.000	0.000
			0.0	0.00			0.000	0.000	0.000
			0.0	0.00			0.000	0.000	0.000
			0.0	0.00			0.000	0.000	0.000
									0
									0.000
									0.000
									0.000
	<b>TOTAL</b>						0.000	129.950	129.950

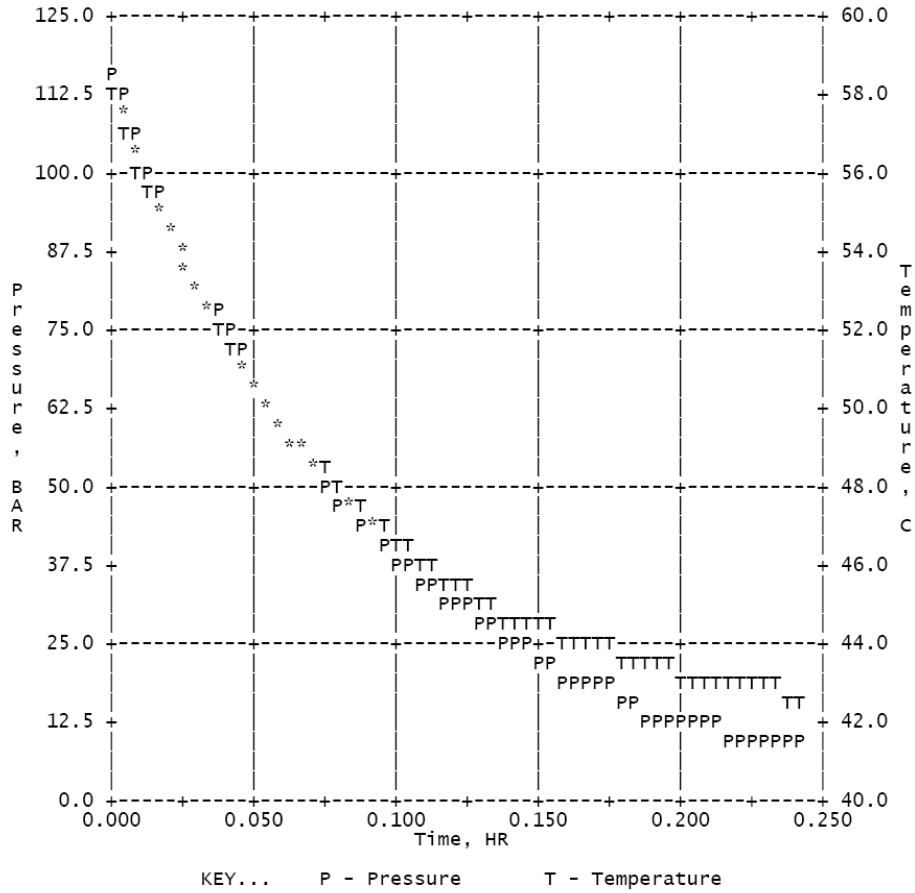
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	115.000	58.0	1.142E+05	1450.447
1.0E-02	102.639	56.1	1.081E+05	1449.750
2.0E-02	91.780	54.4	96612.472	1448.900
3.0E-02	82.176	52.9	86426.099	1449.197
4.0E-02	73.635	51.6	77352.477	1450.296
5.0E-02	66.013	50.5	69250.072	1451.938
6.0E-02	59.192	49.5	62002.501	1453.929
7.0E-02	53.076	48.6	55512.159	1456.123
8.0E-02	47.587	47.8	49695.804	1458.414
9.0E-02	42.656	47.1	44481.428	1460.723
1.0E-01	38.227	46.5	39806.022	1462.995
0.110	34.247	45.9	35613.963	1465.192
0.120	30.672	45.5	31855.810	1467.286
0.130	27.461	45.1	28487.401	1469.262
0.140	24.578	44.7	25469.146	1471.111
0.150	21.991	44.4	22765.475	1472.829
0.160	19.670	44.1	20344.378	1474.416
0.170	17.589	43.8	18177.026	1475.875
0.180	15.725	43.6	16237.446	1477.211
0.190	14.054	43.4	14502.238	1478.431
0.200	12.558	43.2	12950.325	1479.541
0.210	11.219	43.1	11562.731	1480.548
0.220	10.020	42.9	10322.381	1481.461
0.230	8.949	42.8	9213.917	1482.286
0.240	7.990	42.7	8223.537	1483.030
UNIT	8	SOLVED	- '106-BDV-0007-Fire'	

UNIT 8, '106-BDV-0007-Fire', 'Winter' (Cont)



Pressure and Temperature Profiles



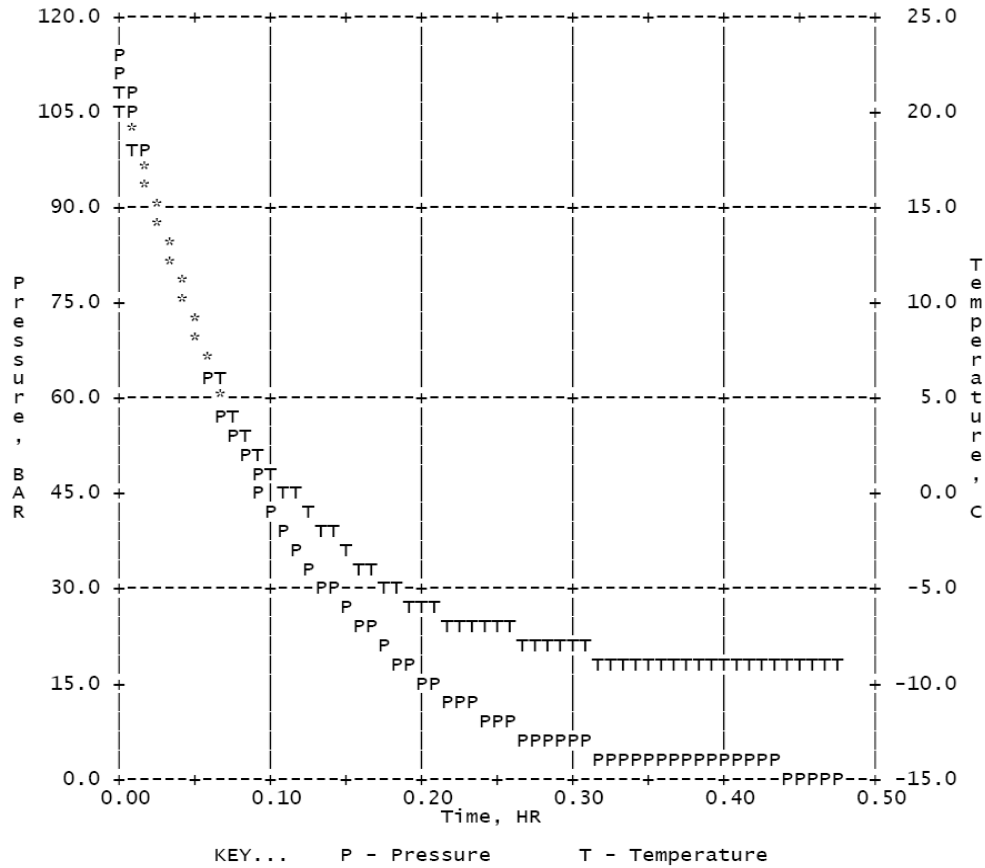
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	115.000	21.0	1.264E+05	1309.766
2.5E-02	88.421	13.8	1.121E+05	1306.897
5.0E-02	68.986	8.4	86888.511	1304.352
7.5E-02	54.095	4.3	67715.409	1308.691
1.0E-01	42.432	1.1	52823.099	1315.705
0.125	33.223	-1.4	41163.970	1323.283
0.150	25.944	-3.3	32020.303	1330.421
0.175	20.205	-4.7	24858.045	1336.697
0.200	15.696	-5.9	19261.312	1341.996
0.225	12.166	-6.7	14899.756	1346.353
0.250	9.413	-7.4	11509.572	1349.872
0.275	7.271	-7.9	8880.446	1352.678
0.300	5.610	-8.3	6845.466	1354.895
0.325	4.325	-8.6	5272.864	1356.635
0.350	3.331	-8.8	4059.136	1357.993
0.375	2.564	-9.0	3123.342	1359.049
0.400	1.973	-9.1	2402.417	1359.868
0.425	1.518	-9.2	1847.375	1360.502
0.450	1.167	-9.3	1420.258	1360.991
0.475	0.897	-9.4	1091.707	1361.369
UNIT	9	SOLVED	- ' 106-BDV-0007-Col d	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 9, '106-BDV-0007-Cold', 'winter' (Cont)  
Pressure and Temperature Profiles







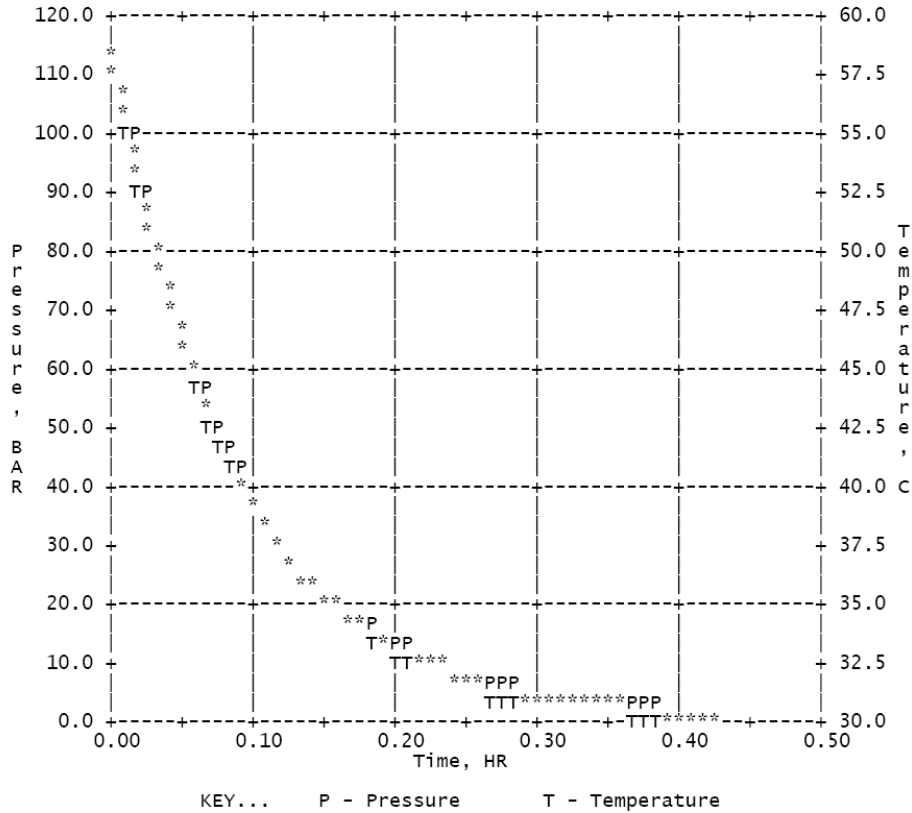
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	115.000	58.0	1.142E+05	1450.447
2.5E-02	85.775	50.9	99945.477	1446.369
5.0E-02	64.744	45.7	75248.897	1440.201
7.5E-02	49.102	41.8	56926.492	1439.908
1.0E-01	37.287	38.9	43132.458	1442.072
0.125	28.307	36.7	32682.861	1445.037
0.150	21.470	35.0	24750.720	1448.025
0.175	16.267	33.8	18729.163	1450.707
0.200	12.311	32.8	14161.519	1452.972
0.225	9.309	32.1	10700.341	1454.818
0.250	7.034	31.6	8080.331	1456.288
0.275	5.312	31.2	6098.907	1457.442
0.300	4.009	30.9	4601.600	1458.337
0.325	3.025	30.6	3470.847	1459.026
0.350	2.281	30.5	2617.346	1459.554
0.375	1.720	30.3	1973.373	1459.956
0.400	1.297	30.2	1487.639	1460.262
0.425	0.978	30.2	1121.349	1460.494
UNIT	10	SOLVED	- ' 106-BDV-0007-Spurious '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 10, '106-BDV-0007-Spurious' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

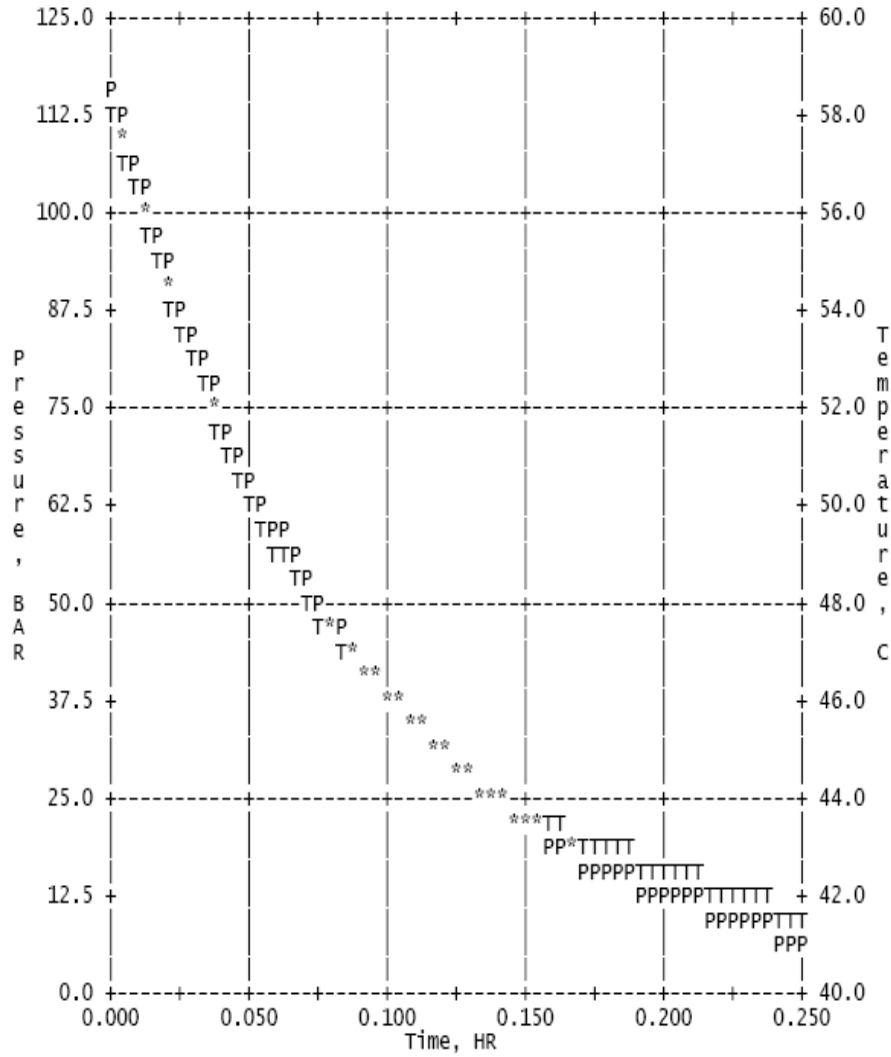
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	115.000	58.0	1.141E+05	1450.776
2.5E-02	86.612	53.4	1.001E+05	1449.928
5.0E-02	65.712	50.1	75623.253	1450.265
7.5E-02	49.943	47.6	57252.304	1454.469
1.0E-01	37.929	45.9	43338.532	1459.844
0.125	28.754	44.6	32769.520	1465.136
0.150	21.756	43.6	24743.022	1469.822
0.175	16.431	42.9	18656.691	1473.746
0.200	12.390	42.4	14050.320	1476.921
0.225	9.330	42.0	10570.486	1479.433
0.250	7.019	41.7	7945.956	1481.392
UNIT	8	SOLVED	- '106-BDV-007-F'	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 8, '106-BDV-007-F', 'Summer' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

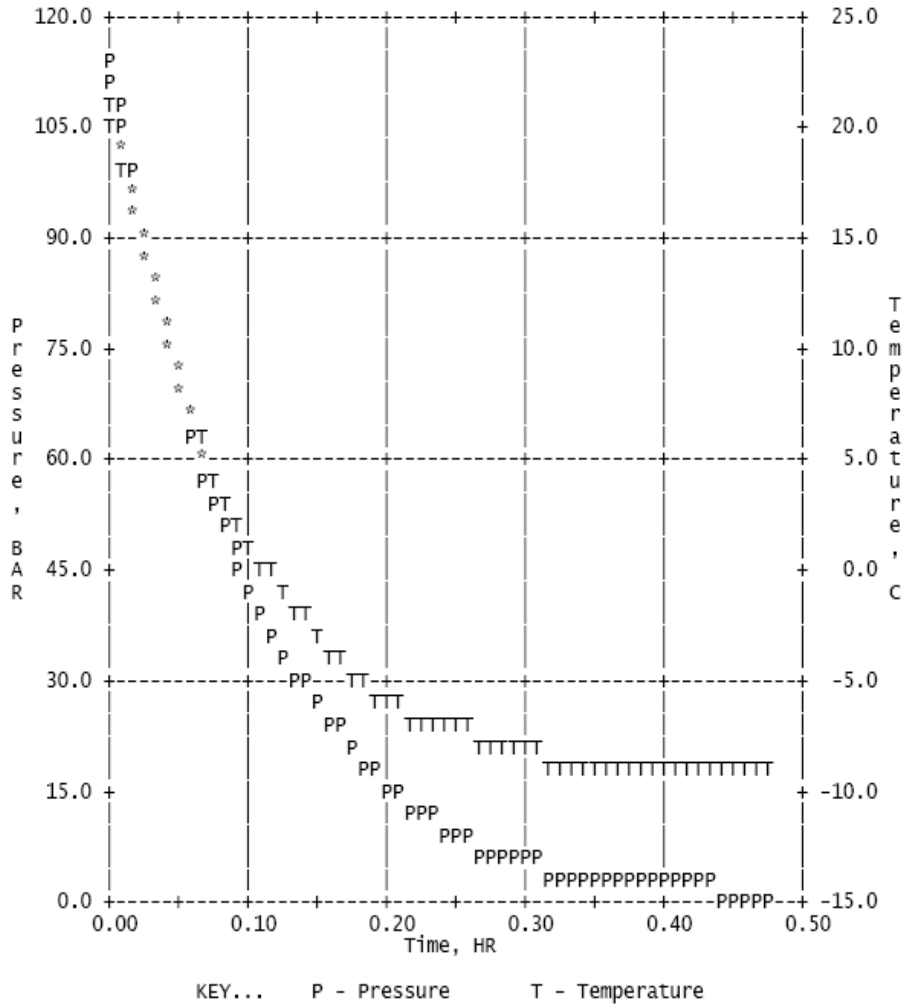
DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	115. 000	21. 0	1. 264E+05	1310. 120
2. 5E-02	88. 414	13. 8	1. 120E+05	1307. 246
5. 0E-02	68. 975	8. 4	86855. 639	1304. 689
7. 5E-02	54. 082	4. 3	67684. 717	1309. 016
1. 0E-01	42. 418	1. 1	52795. 306	1316. 018
0. 125	33. 209	-1. 4	41139. 426	1323. 585
0. 150	25. 932	-3. 3	31999. 064	1330. 713
0. 175	20. 194	-4. 7	24839. 965	1336. 980
0. 200	15. 686	-5. 8	19246. 125	1342. 270
0. 225	12. 158	-6. 7	14887. 134	1346. 621
0. 250	9. 406	-7. 4	11499. 172	1350. 134
0. 275	7. 266	-7. 9	8871. 936	1352. 936
0. 300	5. 606	-8. 3	6838. 543	1355. 149
0. 325	4. 321	-8. 6	5267. 257	1356. 886
0. 350	3. 328	-8. 8	4054. 614	1358. 242
0. 375	2. 562	-9. 0	3119. 706	1359. 296
0. 400	1. 971	-9. 1	2399. 501	1360. 113
0. 425	1. 516	-9. 2	1845. 043	1360. 746
0. 450	1. 166	-9. 3	1418. 397	1361. 234
0. 475	0. 896	-9. 4	1090. 224	1361. 611
UNI T	9	SOLVED	- ' 106-BDV-0007-C '	

	<p style="text-align: center;"><b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b></p> <hr/> <p><b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b></p> <hr/> <p><b>Doc. Number : DB-1516-999-P312-212</b></p>	 <p style="text-align: center;"><b>N.I.O.C.</b></p> <p style="text-align: center;">Pars Oil and Gas Company</p> <hr/> <p><b>Rev. : 3    Class: 2</b></p>
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UNIT 9, '106-BDV-0007-C', 'Summer' (cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

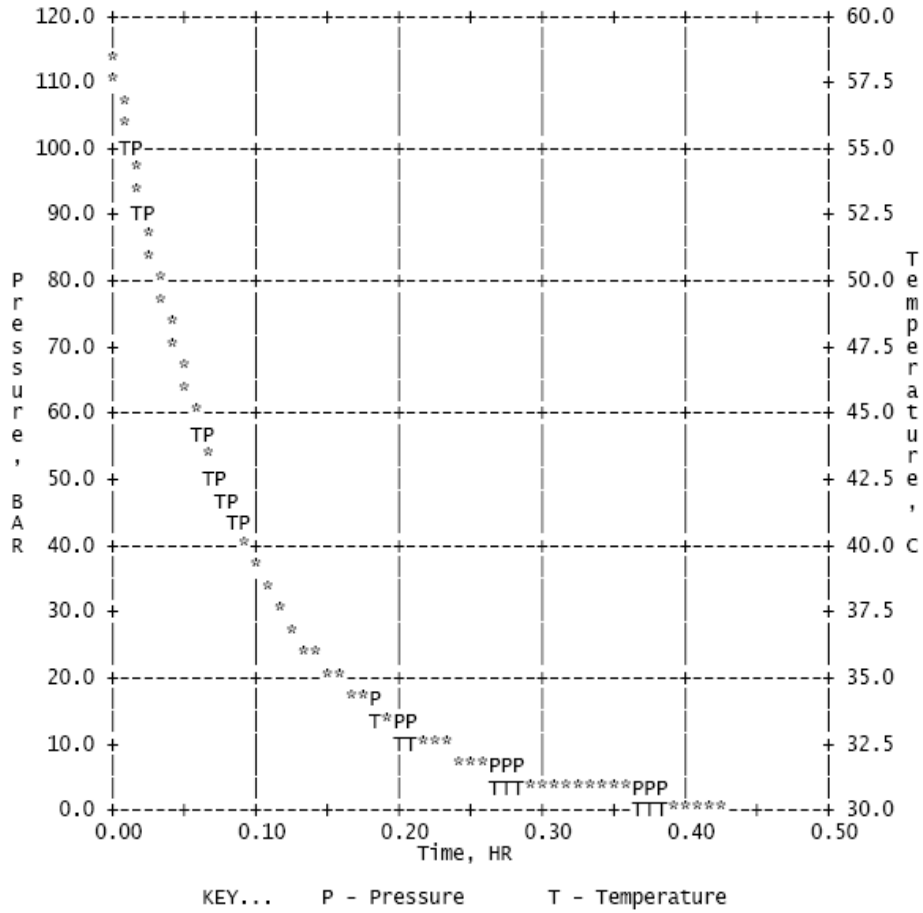
DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	115.000	58.0	1.141E+05	1450.776
2.5E-02	85.768	50.9	99919.771	1446.691
5.0E-02	64.734	45.7	75224.236	1440.510
7.5E-02	49.091	41.8	56904.002	1440.206
1.0E-01	37.276	38.9	43112.639	1442.360
0.125	28.297	36.7	32665.824	1445.317
0.150	21.461	35.0	24736.348	1448.299
0.175	16.259	33.8	18717.214	1450.975
0.200	12.305	32.8	14151.697	1453.235
0.225	9.304	32.1	10692.340	1455.078
0.250	7.029	31.6	8073.862	1456.546
0.275	5.308	31.2	6093.708	1457.697
0.300	4.006	30.9	4597.441	1458.590
0.325	3.022	30.6	3467.535	1459.278
0.350	2.279	30.5	2614.717	1459.804
0.375	1.719	30.3	1971.292	1460.206
0.400	1.296	30.2	1485.997	1460.511
0.425	0.977	30.2	1120.056	1460.743
UNIT 10	SOLVED	-	' 106-BDV-0007-S '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 10, '106-BDV-0007-s', 'summer' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.7.3 BDV 0014



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)			(kg)	(kg)
SDV-0011	106-D-101		VAPOR	0	0	376148	21.91	0.0000	1.0000	0	62
106-D-101	MOV-0021		VAPOR	0	0	376148	21.879	0.0000	1.0000	0	237
MOV-0027	106-A-101		VAPOR	0	0	376148	45.342	0.0000	1.0000	0	321
106-A-101	SDV-0011		VAPOR	0	0	376148	62.827	0.0000	1.0000	0	290
ANTISURGE			VAPOR	0	0	376148	62.827	0.0000	1.0000	0	194
106-D-101	DRAIN POT		VAPOR	0	0	376148	21.879	0.0000	1.0000	0	2
								0.0000	1.0000	0	0
106-A-101					0		21.879			0	2001
106-D-101					0		62.827			0	466
										0	0
										0	0
										0	3574
		<b>TOTAL</b>									

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL	TOTAL VOLU ME
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0011	106-D-101	24	610	30.96	548.1	21.58	0	12	0.000	2.831	2.831
106-D-101	MOV-0021	24	610	30.96	548.1	21.58	16	30	0.000	10.853	10.853
MOV-0027	106-A-101	20	508	32.54	442.9	17.44	16	30	0.000	7.088	7.088
106-A-101	SDV-0011	20	508	32.54	442.9	17.44	5	25	0.000	4.622	4.622
ANTISURGE		20	508	32.54	442.9	17.44	0	20	0.000	3.082	3.082
106-D-101	DRAIN POT	4	114.3	8.56	97.2	3.83	0	10	0.000	0.074	0.074
					0.0	0.00			0.000	0.000	0.000
106-A-101									0.000	91.474	91.474
106-D-101									0.000	7.423	7.423
											0.000
											0.000
									0.000	127.446	127.446
		<b>TOTAL</b>									

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

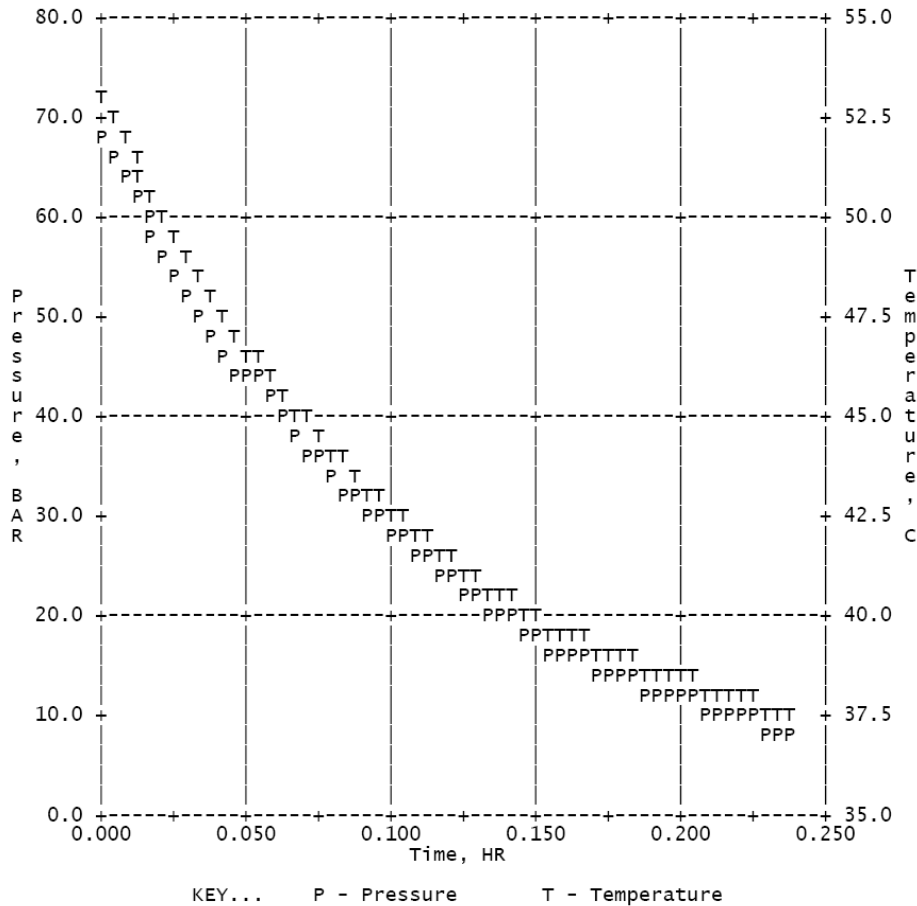
DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	69. 000	53. 2	53906. 148	1155. 202
4. 4E-03	66. 272	52. 5	52844. 823	1155. 105
8. 7E-03	63. 709	51. 8	50785. 277	1154. 938
1. 3E-02	61. 250	51. 2	48827. 955	1154. 828
1. 7E-02	58. 891	50. 6	46947. 596	1154. 767
2. 2E-02	56. 626	50. 0	45141. 294	1154. 750
2. 6E-02	54. 452	49. 4	43405. 891	1154. 771
3. 0E-02	52. 364	48. 9	41738. 400	1154. 827
3. 5E-02	50. 359	48. 3	40135. 986	1154. 913
3. 9E-02	48. 432	47. 8	38595. 954	1155. 027
4. 3E-02	46. 581	47. 3	37115. 740	1155. 164
4. 8E-02	44. 802	46. 9	35692. 906	1155. 321
5. 2E-02	43. 093	46. 4	34325. 125	1155. 497
5. 6E-02	41. 449	46. 0	33010. 179	1155. 688
6. 1E-02	39. 869	45. 6	31745. 952	1155. 892
6. 5E-02	38. 350	45. 2	30530. 423	1156. 107
6. 9E-02	36. 889	44. 8	29361. 659	1156. 331
7. 4E-02	35. 485	44. 5	28237. 815	1156. 563
7. 8E-02	34. 134	44. 1	27157. 123	1156. 802
8. 2E-02	32. 835	43. 8	26117. 891	1157. 044
8. 7E-02	31. 585	43. 4	25118. 500	1157. 291
9. 1E-02	30. 383	43. 1	24157. 397	1157. 540
9. 5E-02	29. 227	42. 8	23233. 094	1157. 790
1. 0E-01	28. 115	42. 6	22344. 166	1158. 041
0. 104	27. 045	42. 3	21489. 244	1158. 291
0. 108	26. 016	42. 0	20667. 016	1158. 541
0. 112	25. 026	41. 8	19876. 221	1158. 789
0. 117	24. 073	41. 5	19115. 651	1159. 035
0. 121	23. 157	41. 3	18384. 145	1159. 278
0. 125	22. 275	41. 1	17680. 586	1159. 519
0. 130	21. 427	40. 8	17003. 905	1159. 756
0. 134	20. 611	40. 6	16353. 072	1159. 989
0. 138	19. 826	40. 4	15727. 098	1160. 219
0. 143	19. 070	40. 3	15125. 032	1160. 444
0. 147	18. 344	40. 1	14545. 963	1160. 665
0. 151	17. 644	39. 9	13989. 010	1160. 881
0. 156	16. 972	39. 7	13453. 330	1161. 093
0. 160	16. 325	39. 6	12938. 113	1161. 300
0. 164	15. 702	39. 4	12442. 576	1161. 503
0. 168	15. 103	39. 3	11965. 971	1161. 700
0. 173	14. 527	39. 1	11507. 574	1161. 893
0. 177	13. 973	39. 0	11066. 693	1162. 080
0. 181	13. 439	38. 9	10642. 659	1162. 263
0. 186	12. 926	38. 7	10234. 832	1162. 441
0. 190	12. 433	38. 6	9842. 592	1162. 614
0. 194	11. 958	38. 5	9465. 347	1162. 782
0. 199	11. 501	38. 4	9102. 525	1162. 946
0. 203	11. 062	38. 3	8753. 576	1163. 105
0. 207	10. 639	38. 2	8417. 971	1163. 259
0. 211	10. 232	38. 1	8095. 203	1163. 408
0. 216	9. 841	38. 0	7784. 781	1163. 553
0. 220	9. 465	37. 9	7486. 235	1163. 694

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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	0. 224	9. 103	37. 8	7199. 113	1163. 830
	0. 229	8. 755	37. 7	6922. 978	1163. 962
	0. 233	8. 420	37. 6	6657. 412	1164. 090
	0. 237	8. 097	37. 5	6402. 011	1164. 213
	0. 239	7. 941	37. 5	6216. 017	1164. 305
UNIT	5	SOLVED	-	' 106-BDV-0014-Fire	'

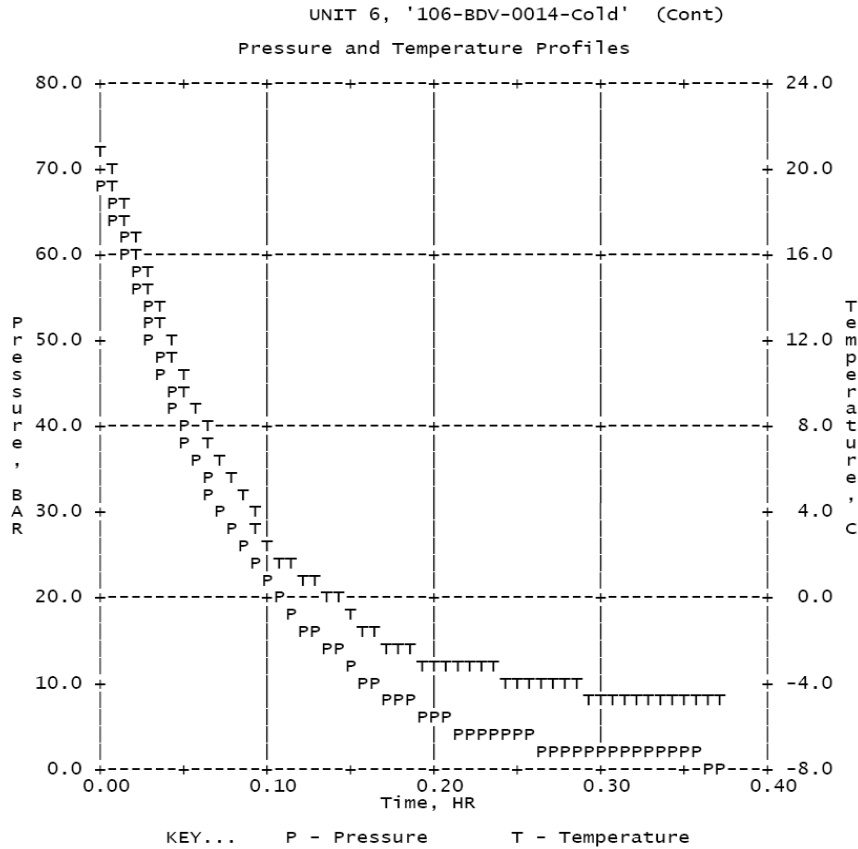
UNIT 5, '106-BDV-0014-Fire' (Cont)  
Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

DEPRESSURING SUMMARY (Winter Case)


TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	21.0	58142.739	1071.028
2.5E-02	51.284	14.3	50700.305	1070.568
5.0E-02	38.304	9.2	37760.179	1070.616
7.5E-02	28.642	5.5	28165.691	1072.555
1.0E-01	21.405	2.7	21006.962	1075.043
0.125	15.978	6.1E-01	15656.011	1077.471
0.150	11.912	-9.4E-01	11657.254	1079.596
0.175	8.870	-2.1	8672.074	1081.353
0.200	6.598	-2.9	6446.320	1082.756
0.225	4.904	-3.6	4788.754	1083.853
0.250	3.643	-4.0	3555.590	1084.696
0.275	2.704	-4.4	2638.931	1085.339
0.300	2.007	-4.7	1957.996	1085.825
0.325	1.489	-4.8	1452.428	1086.190
0.350	1.105	-5.0	1077.211	1086.464
0.375	0.819	-5.1	798.822	1086.668
UNIT	6	SOLVED	- ' 106-BDV-0014-Cold	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

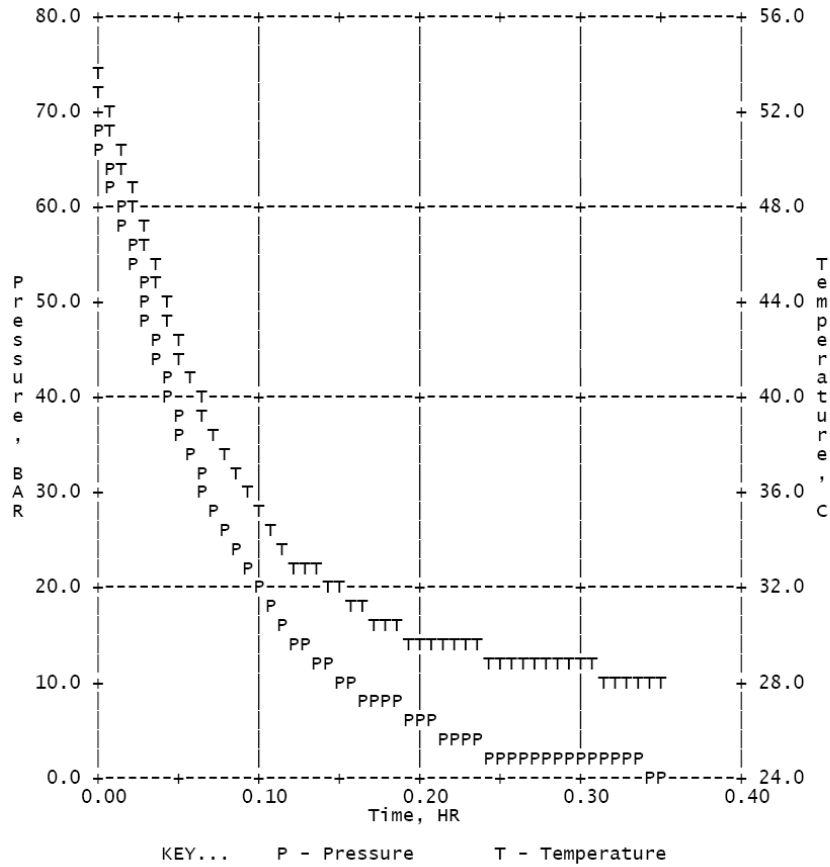
DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	53.2	53906.148	1155.202
2.5E-02	49.824	46.3	46491.132	1153.326
5.0E-02	36.199	41.3	33750.671	1150.138
7.5E-02	26.367	37.7	24566.071	1149.262
1.0E-01	19.222	35.0	17898.591	1149.377
0.125	14.015	33.1	13043.889	1149.856
0.150	10.217	31.7	9505.233	1150.415
0.175	7.446	30.6	6925.276	1150.933
0.200	5.425	29.9	5044.540	1151.369
0.225	3.952	29.3	3673.876	1151.717
0.250	2.878	28.9	2675.220	1151.988
0.275	2.095	28.6	1947.782	1152.193
0.300	1.526	28.4	1418.011	1152.348
0.325	1.111	28.3	1032.255	1152.463
0.350	0.809	28.1	751.399	1152.548
UNIT	7	SOLVED	- ' 106-BDV-0014-Spurious '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 7, '106-BDV-0014-Spurious' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Summer Case)

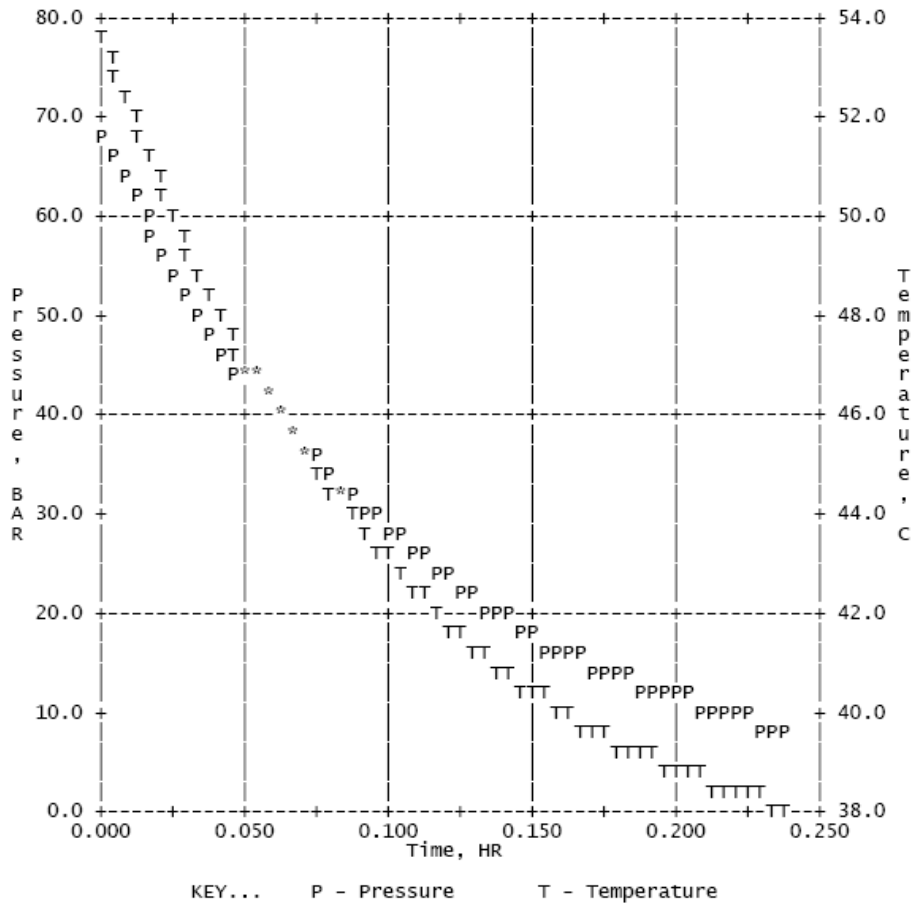
TIME HR	PRES BAR	TEMP C	--- VENT RATE --- KG/HR	M3/HR
0. 000	69. 000	53. 7	53840. 473	1156. 611
4. 4E-03	66. 271	53. 0	52780. 306	1156. 511
8. 7E-03	63. 708	52. 3	50723. 011	1156. 338
1. 3E-02	61. 248	51. 7	48767. 837	1156. 222
1. 7E-02	58. 888	51. 1	46889. 548	1156. 154
2. 2E-02	56. 623	50. 5	45085. 242	1156. 130
2. 6E-02	54. 448	49. 9	43351. 764	1156. 145
3. 0E-02	52. 360	49. 4	41686. 133	1156. 195
3. 5E-02	50. 354	48. 8	40085. 515	1156. 275
3. 9E-02	48. 428	48. 3	38547. 218	1156. 382
4. 3E-02	46. 576	47. 8	37068. 682	1156. 513
4. 8E-02	44. 797	47. 4	35647. 469	1156. 665
5. 2E-02	43. 087	46. 9	34281. 255	1156. 835
5. 6E-02	41. 443	46. 5	32967. 825	1157. 020
6. 1E-02	39. 863	46. 1	31705. 065	1157. 218
6. 5E-02	38. 344	45. 7	30490. 954	1157. 428
6. 9E-02	36. 883	45. 3	29323. 563	1157. 647
7. 4E-02	35. 478	44. 9	28201. 046	1157. 873
7. 8E-02	34. 128	44. 6	27121. 638	1158. 106
8. 2E-02	32. 828	44. 3	26083. 648	1158. 344
8. 6E-02	31. 579	43. 9	25085. 458	1158. 585
9. 1E-02	30. 377	43. 6	24125. 517	1158. 829
9. 5E-02	29. 221	43. 3	23202. 338	1159. 075
9. 9E-02	28. 108	43. 1	22314. 497	1159. 321
0. 104	27. 039	42. 8	21460. 625	1159. 567
0. 108	26. 009	42. 5	20639. 413	1159. 812
0. 112	25. 019	42. 3	19849. 601	1160. 056
0. 117	24. 067	42. 0	19089. 980	1160. 298
0. 121	23. 150	41. 8	18359. 392	1160. 537
0. 125	22. 269	41. 6	17656. 720	1160. 774
0. 130	21. 421	41. 4	16980. 896	1161. 007
0. 134	20. 605	41. 1	16330. 891	1161. 237
0. 138	19. 820	40. 9	15705. 717	1161. 463
0. 143	19. 065	40. 8	15104. 425	1161. 685
0. 147	18. 338	40. 6	14526. 101	1161. 903
0. 151	17. 639	40. 4	13969. 869	1162. 116
0. 155	16. 966	40. 2	13434. 886	1162. 325
0. 160	16. 319	40. 1	12920. 340	1162. 529
0. 164	15. 697	39. 9	12425. 452	1162. 728
0. 168	15. 098	39. 8	11949. 473	1162. 923
0. 173	14. 522	39. 6	11491. 681	1163. 113
0. 177	13. 968	39. 5	11051. 383	1163. 298
0. 181	13. 435	39. 4	10627. 912	1163. 478
0. 185	12. 922	39. 2	10220. 627	1163. 654
0. 190	12. 428	39. 1	9828. 911	1163. 824
0. 194	11. 953	39. 0	9452. 171	1163. 990
0. 198	11. 497	38. 9	9089. 836	1164. 152
0. 203	11. 058	38. 8	8741. 357	1164. 308
0. 207	10. 635	38. 7	8406. 206	1164. 460
0. 211	10. 228	38. 6	8083. 874	1164. 608



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

0.216	9.837	38.5	7773.873	1164.751
0.220	9.461	38.4	7475.734	1164.890
0.224	9.099	38.3	7189.003	1165.024
0.228	8.751	38.2	6913.245	1165.154
0.233	8.416	38.1	6648.043	1165.280
0.237	8.094	38.1	6392.992	1165.402
0.239	7.938	38.0	6207.253	1165.493
UNIT 11	SOLVED	-	'106-BDV-0014-F'	



UNIT 11, '106-BDV-0014-F', 'Summer' (Cont)  
Pressure and Temperature Profiles



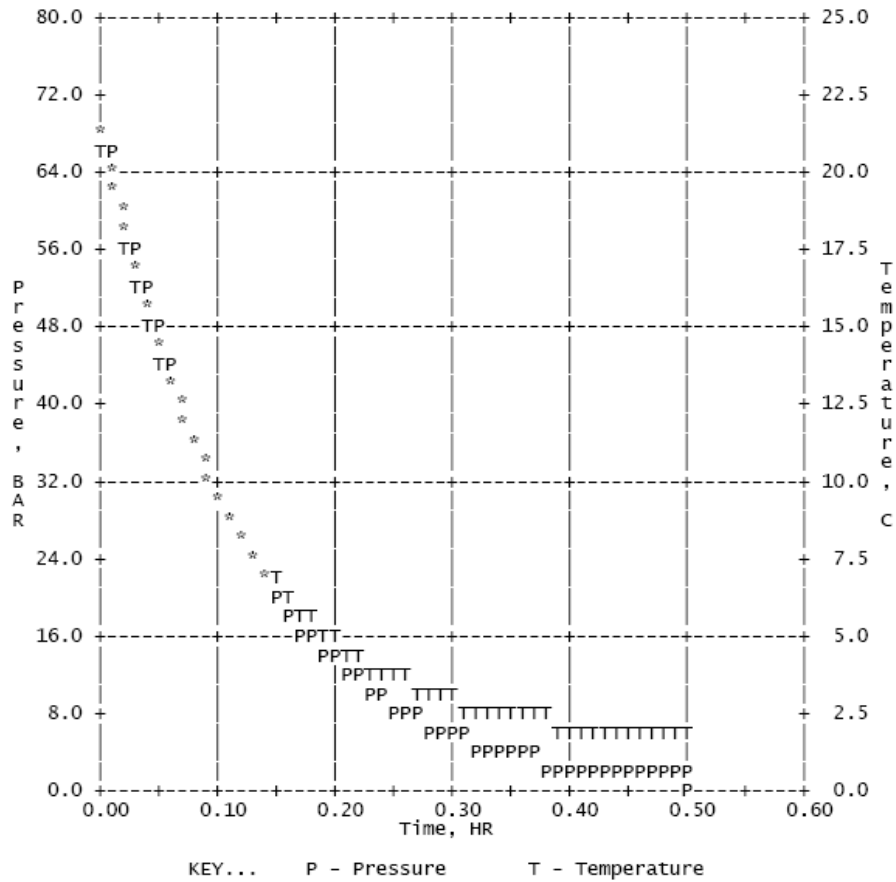
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	21.0	58129.579	1071.270
1.0E-02	63.487	19.3	55796.091	1071.491
2.0E-02	58.442	17.8	51321.436	1072.078
3.0E-02	53.813	16.4	47213.327	1072.899
4.0E-02	49.561	15.2	43437.924	1073.893
5.0E-02	45.649	14.0	39965.631	1075.009
6.0E-02	42.046	12.9	36770.320	1076.207
7.0E-02	38.727	12.0	33828.732	1077.454
8.0E-02	35.666	11.1	31120.015	1078.724
9.0E-02	32.844	10.3	28625.352	1079.997
1.0E-01	30.241	9.5	26327.675	1081.256
0.110	27.839	8.8	24211.432	1082.488
0.120	25.624	8.2	22262.405	1083.685
0.130	23.581	7.6	20467.550	1084.839
0.140	21.697	7.1	18814.881	1085.945
0.150	19.960	6.6	17293.359	1087.001
0.160	18.359	6.2	15892.805	1088.003
0.170	16.883	5.8	14603.825	1088.952
0.180	15.523	5.4	13417.742	1089.847
0.190	14.271	5.1	12326.538	1090.689
0.200	13.117	4.8	11322.805	1091.479
0.210	12.055	4.5	10399.694	1092.219
0.220	11.077	4.3	9550.874	1092.910
0.230	10.177	4.0	8770.498	1093.555
0.240	9.349	3.8	8053.161	1094.155
0.250	8.588	3.6	7393.871	1094.714
0.260	7.887	3.5	6788.020	1095.233
0.270	7.243	3.3	6231.352	1095.714
0.280	6.651	3.2	5719.942	1096.160
0.290	6.107	3.0	5250.166	1096.573
0.300	5.607	2.9	4818.686	1096.956
0.310	5.147	2.8	4422.421	1097.309
0.320	4.725	2.7	4058.535	1097.636
0.330	4.337	2.6	3724.413	1097.937
0.340	3.981	2.5	3417.647	1098.215
0.350	3.653	2.4	3136.020	1098.472
0.360	3.353	2.3	2877.491	1098.708
0.370	3.077	2.3	2640.184	1098.926
0.380	2.823	2.2	2422.369	1099.127
0.390	2.591	2.1	2222.458	1099.311
0.400	2.377	2.1	2038.989	1099.482
0.410	2.181	2.0	1870.619	1099.638
0.420	2.001	2.0	1716.112	1099.782
0.430	1.836	2.0	1574.334	1099.914
0.440	1.685	1.9	1444.239	1100.036
0.450	1.545	1.9	1324.872	1100.148
0.460	1.418	1.9	1215.349	1100.251
0.470	1.301	1.8	1114.864	1100.345
0.480	1.193	1.8	1022.672	1100.432
0.490	1.095	1.8	938.091	1100.512
0.500	1.004	1.8	860.496	1100.585
0.505	0.962	1.8	805.981	1100.638
UNIT	12	SOLVED	- ' 106-BDV-0014-C '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 12, '106-BDV-0014-C', 'summer' (Cont)  
Pressure and Temperature Profiles



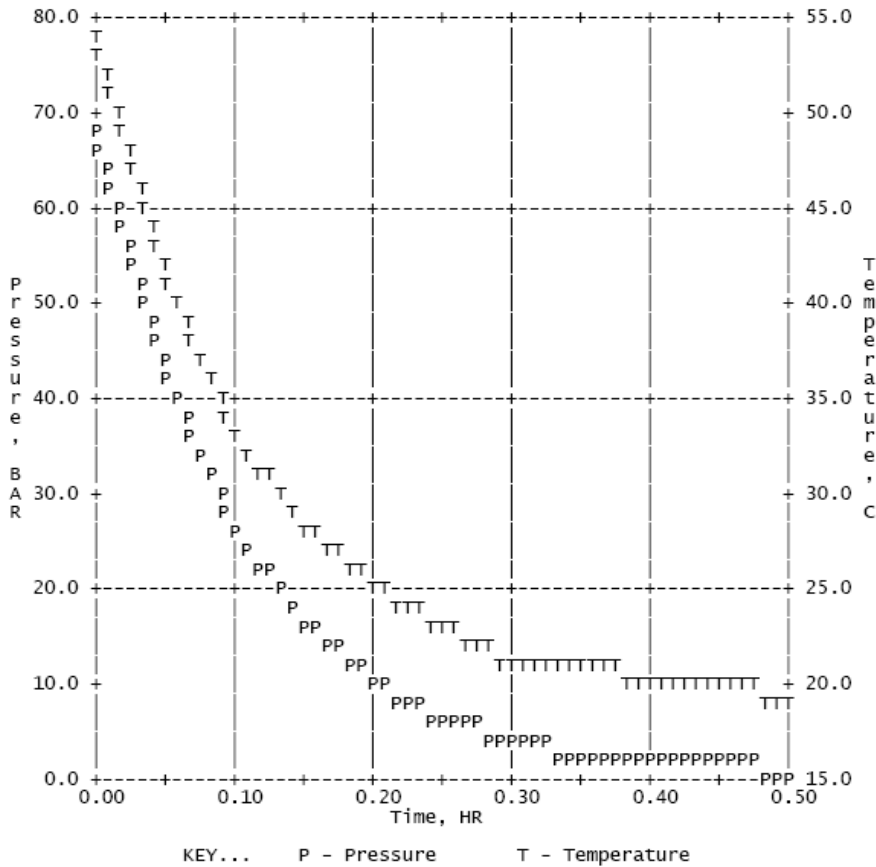
DEPRESSURING SUMMARY (Summer Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	53.7	53840.473	1156.611
5.0E-02	42.655	41.3	43739.240	1151.927
1.0E-01	26.805	33.3	27432.785	1142.570
0.150	16.956	28.2	17340.508	1138.785
0.200	10.755	24.9	10995.698	1137.223
0.250	6.829	22.8	6981.467	1136.567
0.300	4.339	21.4	4435.118	1136.288
0.350	2.757	20.6	2818.143	1136.165
0.400	1.752	20.0	1790.869	1136.110
0.450	1.113	19.7	1138.108	1136.083
0.500	0.708	19.5	723.290	1136.070

UNIT 13    SOLVED    - '106-BDV-0014-S'

UNIT 13, '106-BDV-0014-s', 'summer' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company	
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		
		<b>Rev. : 3 Class: 2</b>	

**5.7.4 BDV 0024**


FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)			(kg)	(kg)
MOV-0021	106-K-101		VAPOR	0	0	376148	21.88	0.0000	1.0000	0	155
106-K-101	MOV-0027		VAPOR	0	0	376148	45.342	0.0000	1.0000	0	210
								0.0000	1.0000	0	0
								0.0000	1.0000	0	0
106-K-101					0		45.342			0	45
										0	0
										0	0
										0	0
<b>TOTAL</b>										0	410

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
MOV-0021	106-K-101	24	610	30.96	548.1	21.58	0	30	0.000	7.078
106-K-101	MOV-0027	20	508	32.54	442.9	17.44	0	30	0.000	4.622
					0.0	0.00			0.000	0.000
					0.0	0.00			0.000	0.000
106-K-101									0.000	1.000
<b>TOTAL</b>									0.000	12.700

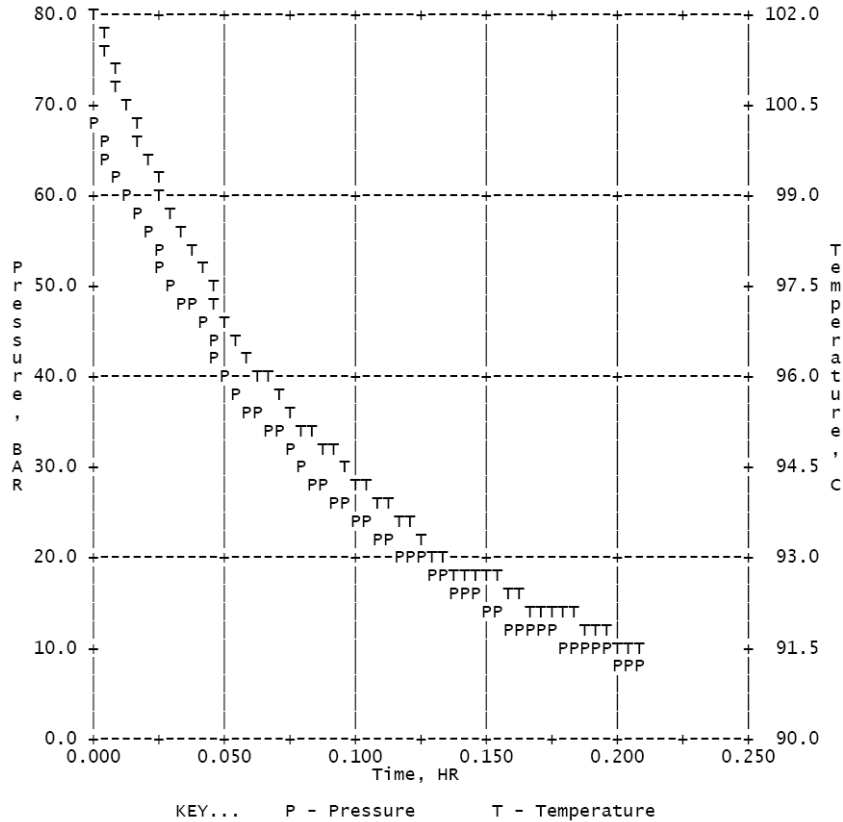
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	101.9	5189.268	132.967
1.0E-02	62.072	100.7	4929.967	132.934
2.0E-02	55.865	99.6	4437.801	132.877
3.0E-02	50.295	98.6	3995.634	132.844
4.0E-02	45.292	97.8	3598.083	132.830
5.0E-02	40.793	97.0	3240.436	132.829
6.0E-02	36.746	96.3	2918.548	132.838
7.0E-02	33.102	95.7	2628.747	132.854
8.0E-02	29.821	95.2	2367.775	132.874
9.0E-02	26.866	94.7	2132.724	132.898
1.0E-01	24.203	94.2	1920.996	132.924
0.110	21.804	93.8	1730.263	132.950
0.120	19.643	93.5	1558.436	132.977
0.130	17.695	93.1	1403.639	133.003
0.140	15.940	92.8	1264.184	133.029
0.150	14.358	92.6	1138.553	133.053
0.160	12.933	92.4	1025.378	133.076
0.170	11.649	92.1	923.428	133.098
0.180	10.491	92.0	831.591	133.119
0.190	9.449	91.8	748.868	133.138
0.200	8.510	91.6	674.357	133.155
0.210	7.664	91.5	607.245	133.172
UNIT	8	SOLVED	- ' 106-BDV-0024-Fi re '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 8, '106-BDV-0024-Fire', 'Winter' (Cont)  
Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

DEPRESSURING SUMMARY (Winter Case)

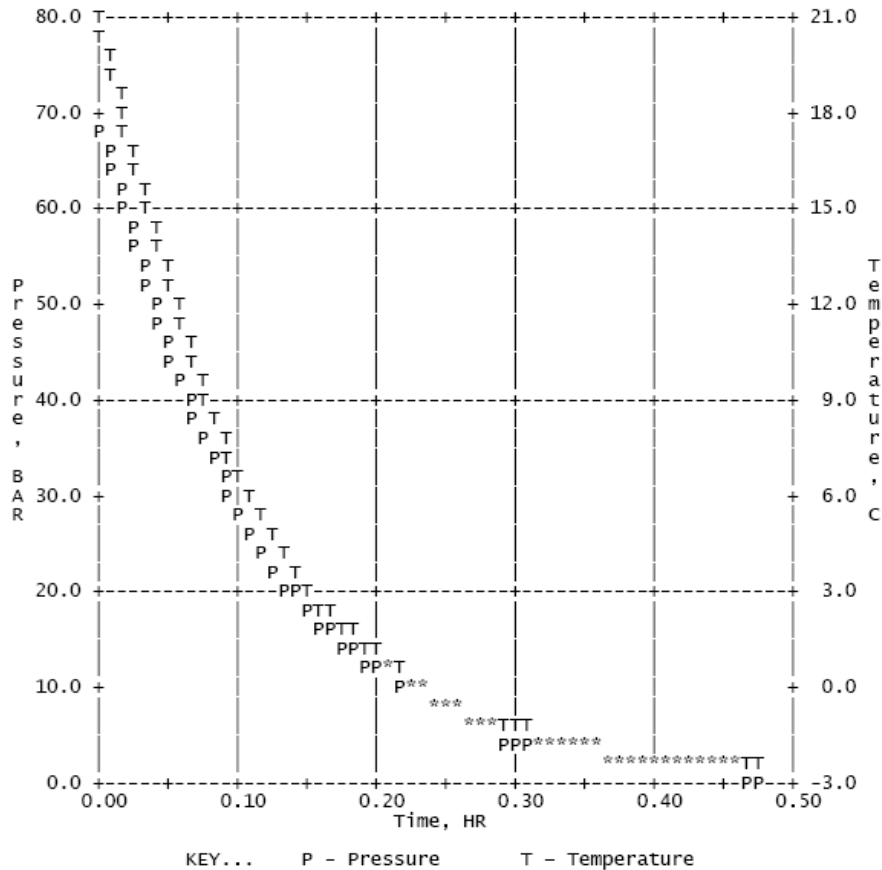
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	21.0	6120.288	112.740
2.5E-02	55.211	16.2	5508.865	112.737
5.0E-02	44.302	12.3	4410.825	112.805
7.5E-02	35.581	9.2	3534.690	112.998
1.0E-01	28.572	6.8	2832.590	113.241
0.125	22.929	4.8	2268.972	113.490
0.150	18.385	3.2	1816.379	113.725
0.175	14.727	2.0	1453.097	113.936
0.200	11.787	9.7E-01	1161.726	114.118
0.225	9.427	1.7E-01	928.238	114.273
0.250	7.534	-4.7E-01	741.298	114.403
0.275	6.018	-9.8E-01	591.749	114.510
0.300	4.805	-1.4	472.197	114.598
0.325	3.834	-1.7	376.684	114.670
0.350	3.059	-2.0	300.416	114.728
0.375	2.440	-2.2	239.541	114.775
0.400	1.945	-2.3	190.970	114.813
0.425	1.551	-2.5	152.228	114.843
0.450	1.236	-2.6	121.332	114.867
0.475	0.985	-2.7	96.698	114.887



UNIT 9 SOLVED - ' 106-BDV-0024-Cold '



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>



UNIT 9, '106-BDV-0024-cold' (cont)  
Pressure and Temperature Profiles



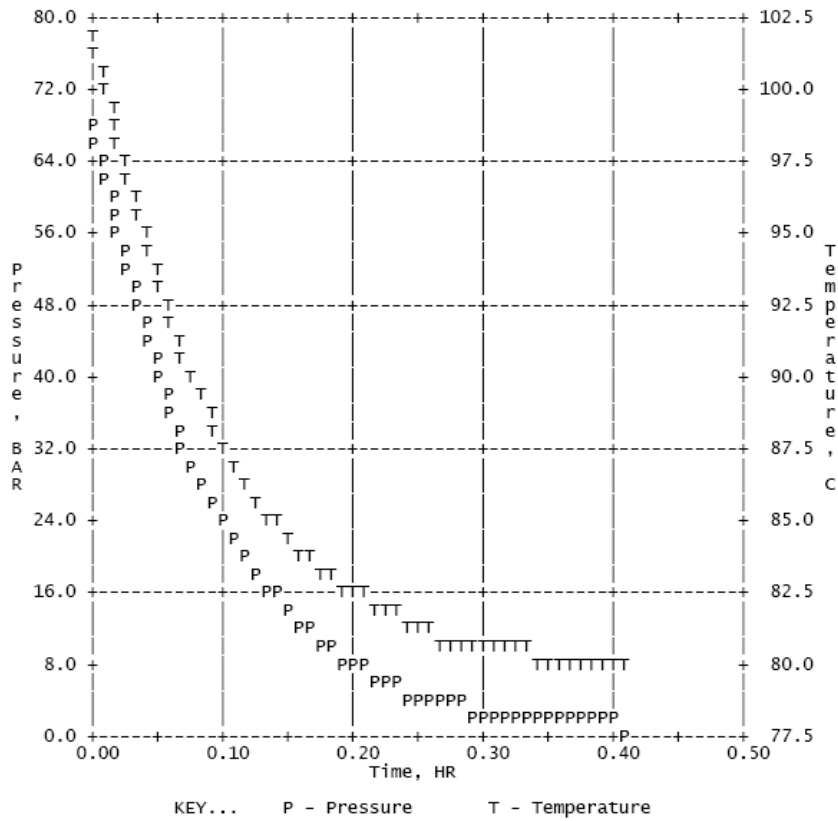
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	101.9	5189.268	132.967
2.5E-02	52.579	96.8	4580.762	132.706
5.0E-02	40.248	92.9	3510.651	132.207
7.5E-02	30.893	89.8	2696.708	131.903
1.0E-01	23.752	87.5	2074.347	131.716
0.125	18.280	85.7	1596.968	131.598
0.150	14.077	84.3	1230.093	131.524
0.175	10.845	83.3	947.812	131.476
0.200	8.358	82.4	730.460	131.444
0.225	6.441	81.8	563.026	131.423
0.250	4.965	81.3	434.009	131.409
0.275	3.827	80.9	334.576	131.399
0.300	2.951	80.6	257.933	131.392
0.325	2.275	80.4	198.853	131.387
0.350	1.754	80.2	153.308	131.384
0.375	1.352	80.1	118.196	131.381
0.400	1.042	80.0	91.127	131.379
0.412	0.916	80.0	74.524	131.378
UNIT	10	SOLVED	- ' 106-BDV-0024-Spurious '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 10, 'BDV-0024-Spurious' (cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

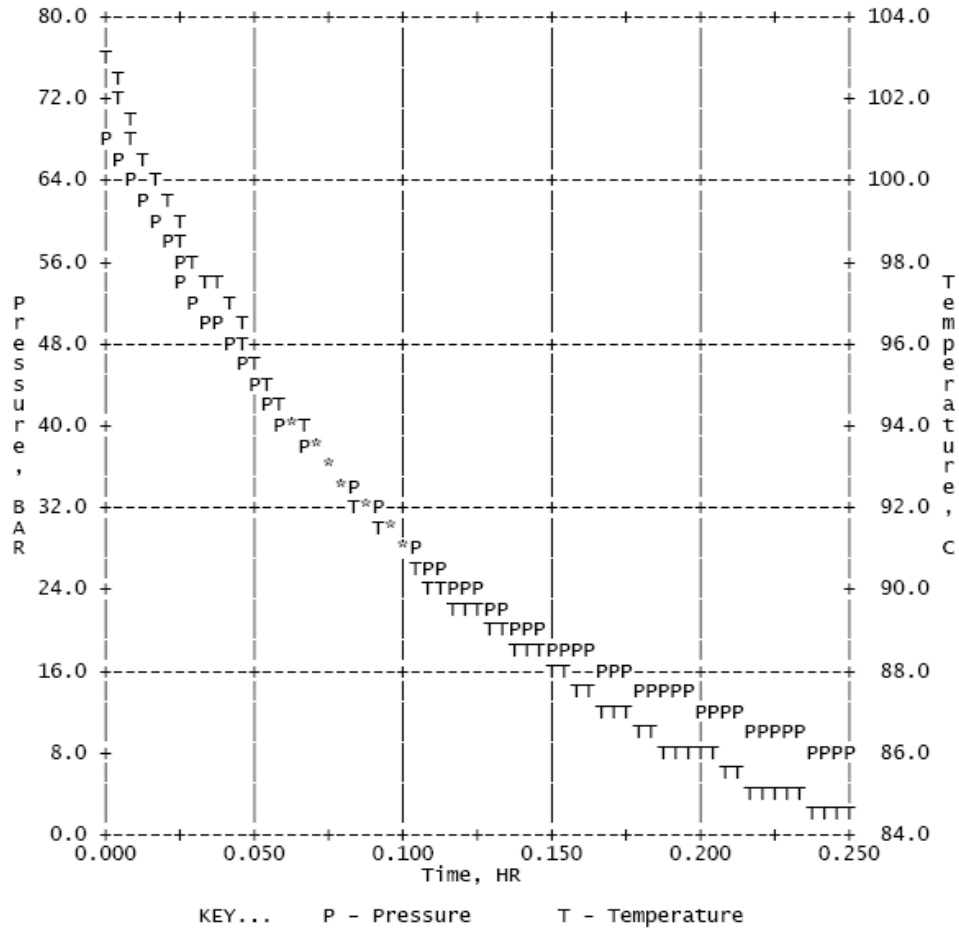
DEPRESSURING SUMMARY (Summer Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	69.000	103.0	4246.871	109.247
1.0E-02	63.111	101.2	4068.755	109.163
2.0E-02	57.761	99.7	3728.136	109.001
3.0E-02	52.892	98.2	3417.225	108.865
4.0E-02	48.456	96.9	3133.163	108.750
5.0E-02	44.408	95.7	2873.425	108.653
6.0E-02	40.711	94.6	2635.768	108.571
7.0E-02	37.332	93.5	2418.193	108.502
8.0E-02	34.240	92.6	2218.906	108.443
9.0E-02	31.411	91.7	2036.299	108.393
1.0E-01	28.820	90.9	1868.917	108.351
0.110	26.447	90.2	1715.448	108.315
0.120	24.272	89.5	1574.700	108.285
0.130	22.277	88.9	1445.594	108.259
0.140	20.449	88.4	1327.144	108.237
0.150	18.772	87.8	1218.457	108.218
0.160	17.233	87.4	1118.715	108.202
0.170	15.821	86.9	1027.172	108.188
0.180	14.526	86.5	943.147	108.176
0.190	13.337	86.2	866.016	108.166
0.200	12.246	85.8	795.209	108.158
0.210	11.244	85.5	730.204	108.150
0.220	10.324	85.2	670.524	108.144
0.230	9.480	85.0	615.729	108.139
0.240	8.705	84.7	565.418	108.134
0.250	7.994	84.5	519.222	108.130
UNIT 14	SOLVED	- '106-BDV-0024-F'		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 14, '106-BDV-0024-F', 'summer' (cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

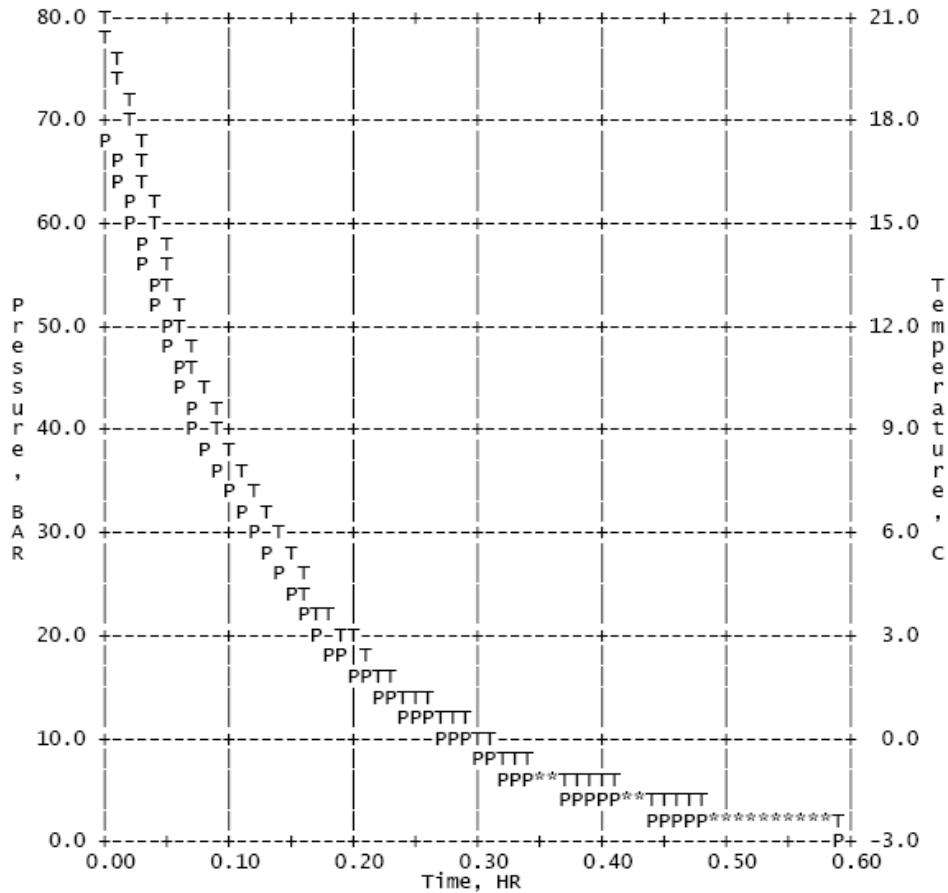
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	69. 000	21. 0	5017. 500	92. 468
2. 5E-02	57. 478	17. 0	4598. 769	92. 464
5. 0E-02	47. 982	13. 7	3832. 988	92. 502
7. 5E-02	40. 092	10. 9	3197. 011	92. 620
1. 0E-01	33. 505	8. 6	2666. 967	92. 777
0. 125	27. 993	6. 7	2224. 417	92. 949
0. 150	23. 377	5. 1	1854. 652	93. 120
0. 175	19. 510	3. 8	1545. 683	93. 282
0. 200	16. 272	2. 7	1287. 594	93. 430
0. 225	13. 564	1. 8	1072. 118	93. 562
0. 250	11. 300	1. 0	892. 326	93. 679
0. 275	9. 409	4. 1E-01	742. 402	93. 781
0. 300	7. 831	-1. 1E-01	617. 457	93. 868
0. 325	6. 515	-5. 5E-01	513. 387	93. 943
0. 350	5. 418	-9. 1E-01	426. 748	94. 007
0. 375	4. 504	-1. 2	354. 651	94. 060
0. 400	3. 744	-1. 5	294. 679	94. 106
0. 425	3. 111	-1. 7	244. 809	94. 144
0. 450	2. 585	-1. 8	203. 351	94. 176
0. 475	2. 147	-2. 0	168. 895	94. 203
0. 500	1. 784	-2. 1	140. 263	94. 226
0. 525	1. 481	-2. 2	116. 476	94. 245
0. 550	1. 230	-2. 3	96. 716	94. 260
0. 575	1. 022	-2. 4	80. 304	94. 273
0. 588	0. 931	-2. 4	69. 629	94. 282
UNIT	15	SOLVED	- ' 106-BDV-0024-C '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 15, '106-BDV-0024-C', 'Summer' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Summer Case)

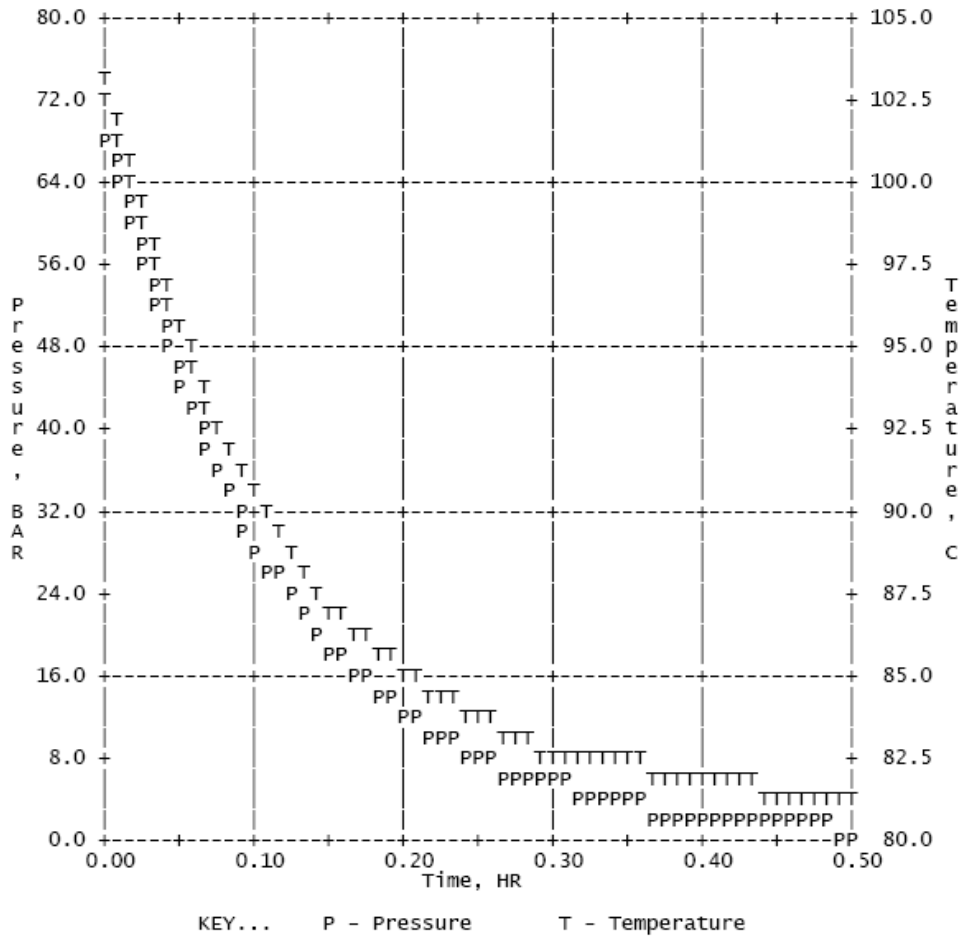
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	69. 000	103. 0	4246. 871	109. 247
2. 5E-02	55. 200	98. 7	3828. 686	109. 061
5. 0E-02	44. 305	95. 4	3077. 374	108. 709
7. 5E-02	35. 636	92. 6	2477. 655	108. 474
1. 0E-01	28. 704	90. 4	1997. 019	108. 317
0. 125	23. 142	88. 6	1610. 805	108. 211
0. 150	18. 670	87. 2	1299. 922	108. 139
0. 175	15. 068	86. 0	1049. 388	108. 089
0. 200	12. 165	85. 1	847. 330	108. 055
0. 225	9. 823	84. 3	684. 284	108. 030
0. 250	7. 933	83. 7	552. 671	108. 013
0. 275	6. 407	83. 2	446. 406	108. 001
0. 300	5. 175	82. 8	360. 592	107. 992
0. 325	4. 181	82. 5	291. 285	107. 985
0. 350	3. 377	82. 2	235. 306	107. 980
0. 375	2. 728	82. 0	190. 089	107. 976
0. 400	2. 204	81. 8	153. 563	107. 974
0. 425	1. 780	81. 7	124. 057	107. 971
0. 450	1. 438	81. 6	100. 221	107. 970
0. 475	1. 162	81. 5	80. 965	107. 968
0. 500	0. 939	81. 4	65. 410	107. 967
UNIT 16	SOLVED	-	' 106-BDV-0024-S '	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 16, '106-BDV-0024-s', 'Summer' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3 Class: 2</b>

### 5.7.5 BDV 0040

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/h)	(kg/m <sup>3</sup> )	(kg/h)	(kg/m <sup>3</sup> )			(kg)	(kg)
SDV-0034	Header		VAPOR	0	0	18000	15.86	0.0000	1.0000	0.0000	225.6
SDV-0032	Header		VAPOR	0	0	18000	15.86	0.0000	1.0000	0.0000	80.2
								0.0000	1.0000	0.0000	0.0
								0.0000	1.0000	0.0000	0.0
					0		45.342			0	0.0
										0	0.0
										0	0.0
										0	0.0
	<b>TOTAL</b>									0	305.8

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL	TOTAL VOLUME
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )
SDV-0034	Header	12	323.85	10.31	303.2	11.94	0	197	0.000	14.227	14.227
SDV-0032	Header	4	323.85	10.31	303.2	11.94	0	70	0.000	5.055	5.055
					0.0	0.00			0.000	0.000	0.000
					0.0	0.00			0.000	0.000	0.000
									0.000	0.000	0
											0.000
											0.000
											0.000
	<b>TOTAL</b>								0.000	19.282	19.282

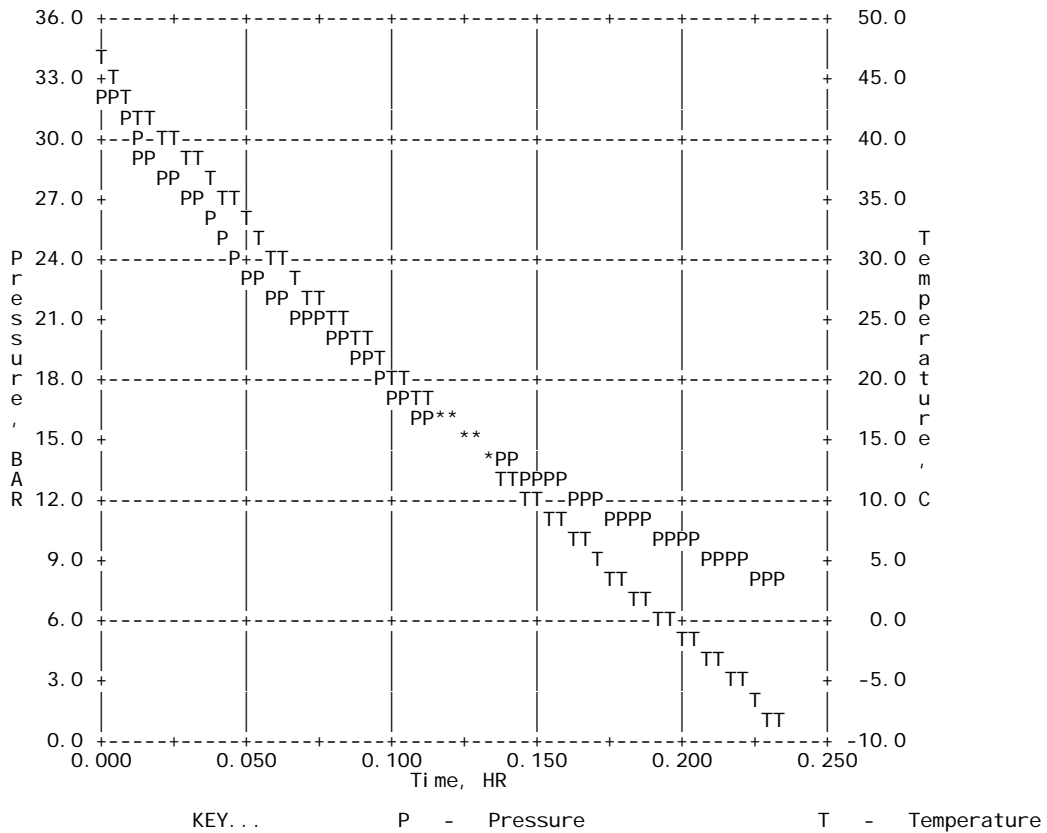
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	32.013	46.0	2369.243	109.447
7.3E-03	30.598	44.0	2319.851	109.306
1.4E-02	29.273	42.1	2224.120	109.022
2.2E-02	28.006	40.1	2133.327	108.743
2.9E-02	26.795	38.2	2046.238	108.465
3.6E-02	25.636	36.3	1962.720	108.189
4.3E-02	24.527	34.5	1882.623	107.914
5.1E-02	23.467	32.6	1805.804	107.641
5.8E-02	22.453	30.7	1732.129	107.368
6.5E-02	21.483	28.9	1661.466	107.097
7.3E-02	20.554	27.1	1593.692	106.828
8.0E-02	19.666	25.3	1528.686	106.559
8.7E-02	18.817	23.5	1466.335	106.291
9.5E-02	18.004	21.8	1406.529	106.023
0.102	17.226	20.0	1349.163	105.757
0.109	16.482	18.3	1294.138	105.491
0.117	15.770	16.5	1241.357	105.226
0.124	15.089	14.8	1190.729	104.962
0.132	14.437	13.1	1142.164	104.698
0.139	13.814	11.4	1095.578	104.435
0.147	13.217	9.7	1050.892	104.172
0.154	12.646	8.1	1008.026	103.909
0.162	12.099	6.4	966.906	103.648
0.169	11.576	4.8	927.462	103.386
0.177	11.076	3.2	889.625	103.125
0.185	10.597	1.6	853.328	102.864
0.192	10.139	-4.4E-02	818.511	102.604
0.200	9.701	-1.6	785.111	102.344
0.208	9.281	-3.2	753.072	102.084
0.215	8.880	-4.8	722.338	101.825
0.223	8.496	-6.3	692.856	101.565
0.231	8.128	-7.9	664.574	101.307
0.235	7.950	-8.7	644.013	101.110
UNI T	1	SOLVED	- 'BDV-0040-F'	

UNIT 1, 'BDV-0040-F' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

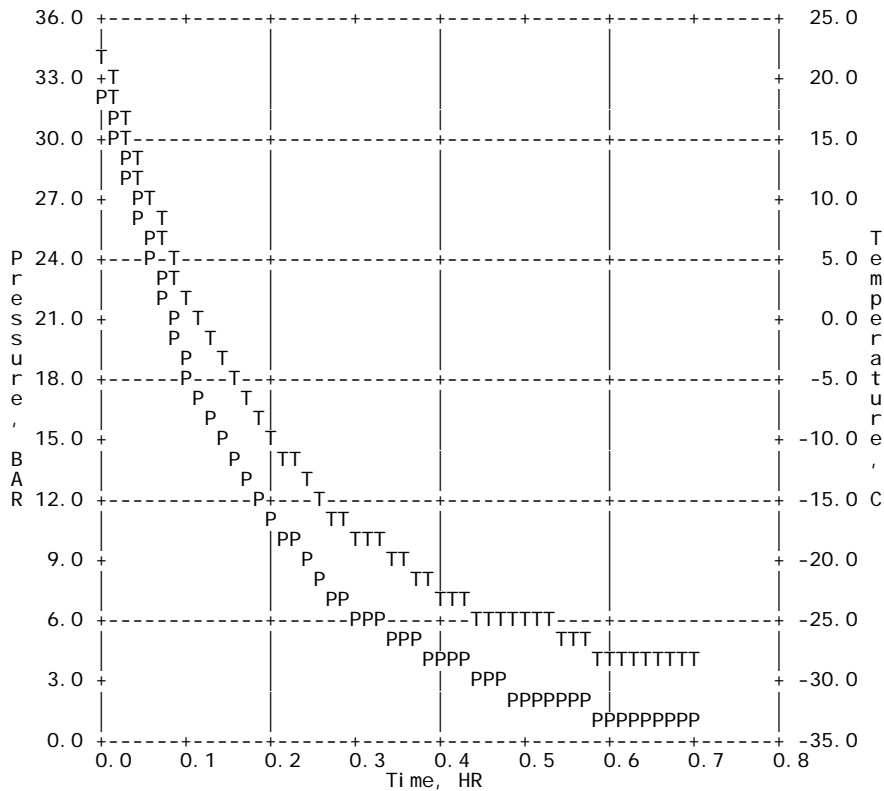
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	32.013	21.0	2491.713	104.068
5.0E-02	24.053	10.6	2194.076	103.491
1.0E-01	18.230	2.2	1674.064	102.293
0.150	13.909	-4.6	1284.084	101.367
0.200	10.668	-10.0	988.993	100.647
0.250	8.216	-14.3	764.147	100.086
0.300	6.347	-17.8	591.891	99.647
0.350	4.916	-20.5	459.361	99.304
0.400	3.815	-22.6	357.052	99.035
0.450	2.965	-24.3	277.862	98.825
0.500	2.307	-25.6	216.439	98.660
0.550	1.797	-26.7	168.719	98.532
0.600	1.401	-27.5	131.596	98.431
0.650	1.093	-28.1	102.688	98.352
0.700	0.853	-28.6	80.158	98.290
UNIT	2	SOLVED	- 'BDV-0040-C'	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, 'BDV-0040-C' (Cont)

Pressure and Temperature Profiles



KEY...                      P - Pressure                      T - Temperature

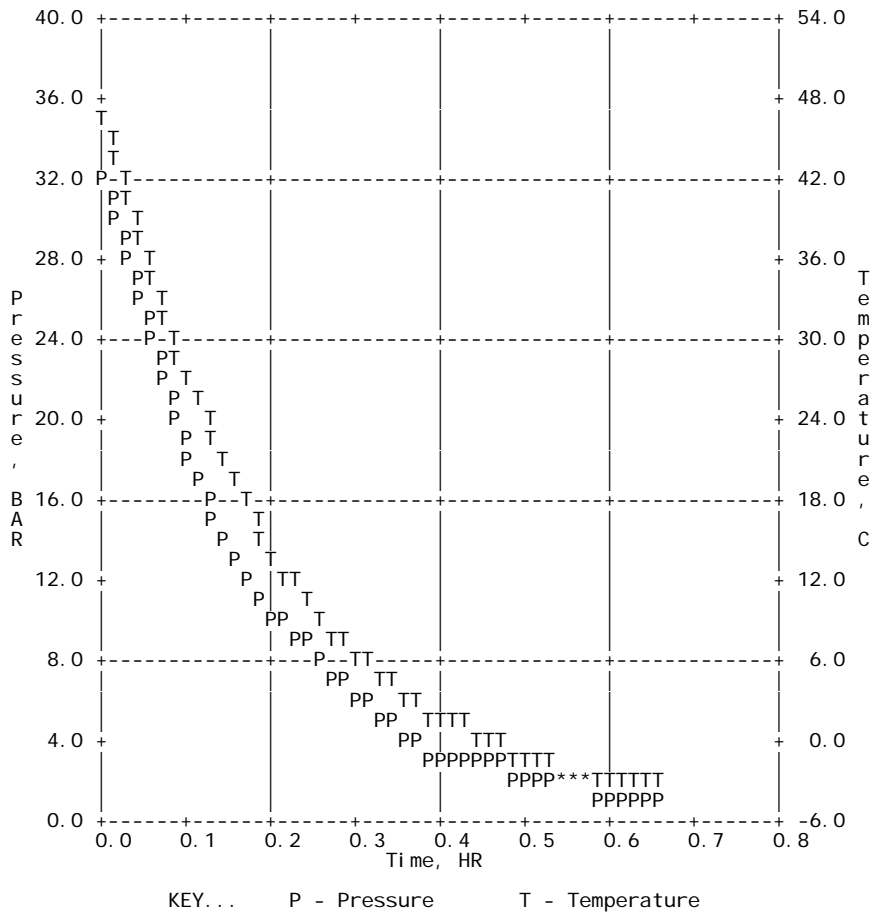
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	32.013	46.0	2369.243	109.447
5.0E-02	23.699	35.1	2073.545	108.817
1.0E-01	17.708	26.3	1560.095	107.494
0.150	13.327	19.4	1180.520	106.472
0.200	10.086	13.9	897.269	105.681
0.250	7.667	9.5	684.340	105.068
0.300	5.848	6.2	523.348	104.592
0.350	4.473	3.5	401.070	104.223
0.400	3.428	1.5	307.864	103.937
0.450	2.631	-1.5E-01	236.619	103.715
0.500	2.023	-1.4	182.041	103.544
0.550	1.556	-2.4	140.159	103.411
0.600	1.198	-3.1	107.977	103.308
0.650	0.923	-3.7	83.222	103.229
UNIT	3	SOLVED	- 'BDV-0040-S'	

UNIT 3, 'BDV-0040-S' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

## 5.8 UNIT 107



### 5.8.1 BDV 0002

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
SDV005/007	107-C-101	81	MIXED	65109	448.8	17605	53.44	0.3057	0.6943
107-C-101	107-A-101	82	VAPOR	0	0	150635	53.34	0.0000	1.0000
107-D-101	107-C-101	83	LIQUID	109468	432.4	0	0	1.0000	0.0000
107-C-101	107-E-101	tray35	LIQUID	200889	438.6	0	0	1.0000	0.0000
107-E-101	107-C-101	85	LIQUID	59152	446.0	0	0	1.0000	0.0000
107-E-101	107-C-101	tray36	VAPOR	0	0	159342	63.64	0.0000	1.0000
107-C-101	SDV011	85	LIQUID	41547	446.0	0	0	1.0000	0.0000
107-E-101		tray36			445.967		63.340		
107-C-101 bottom		85/tray36			445.967		63.340		
107-C-101 trays 1-18		81			448.839		53.439		
107-C-101 top		82/83			432.362		53.340		
	<b>TOTAL</b>								

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
SDV005/007	107-C-101	8	219.2	6.35	206.5	8.13	20	40	0.614	1.395
107-C-101	107-A-101	18	457.2	11.13	434.9	17.12	0	40	0.000	5.943
107-D-101	107-C-101	10	273.1	7.8	257.5	10.14	30	35	3.385	0.000
107-C-101	107-E-101	14	355.6	9.53	336.5	13.25	4	15	1.690	0.000
107-E-101	107-C-101	18	457.2	11.13	434.9	17.12	2	15	2.526	0.000
107-E-101	107-C-101	10	273.1	7.8	257.5	10.14	2	15	0.000	0.885
107-C-101	SDV011	10	273.1	7.8	257.5	10.14	0	10	0.521	0.000
	107-E-101								23.663	13.420
	107-C-101 bottom								21.185	24.332
	107-C-101 trays 1-18								23.089	100.025
	107-C-101 top								24.502	128.331
	<b>TOTAL</b>								101.175	274.331

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
SDV005/007	107-C-101	2.009	276	75	41.318	0.000	0.000	0.000
107-C-101	107-A-101	5.943	0	317	57.453	0.000	0.000	0.000
107-D-101	107-C-101	3.385	1464	0	55.768	0.000	0.000	0.000
107-C-101	107-E-101	1.690	741	0	21.226	0.000	16.757	16.757
107-E-101	107-C-101	2.526	1127	0	24.418	0.000	21.545	21.545
107-E-101	107-C-101	0.885	0	56	14.585	0.000	0.000	0.000
107-C-101	SDV011	0.521	232	0	8.580	0.000	8.580	8.580
	107-E-101	37.082	10553	850				41.118
	107-C-101 bottom	45.517	9448	1541				49.135
	107-C-101 trays 1-18	123.114	10363	5345				6.409
	107-C-101 top	152.833	10594	6845				0
	<b>TOTAL</b>	375.506	44797	15029	223.348	0.000	46.882	143.543

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

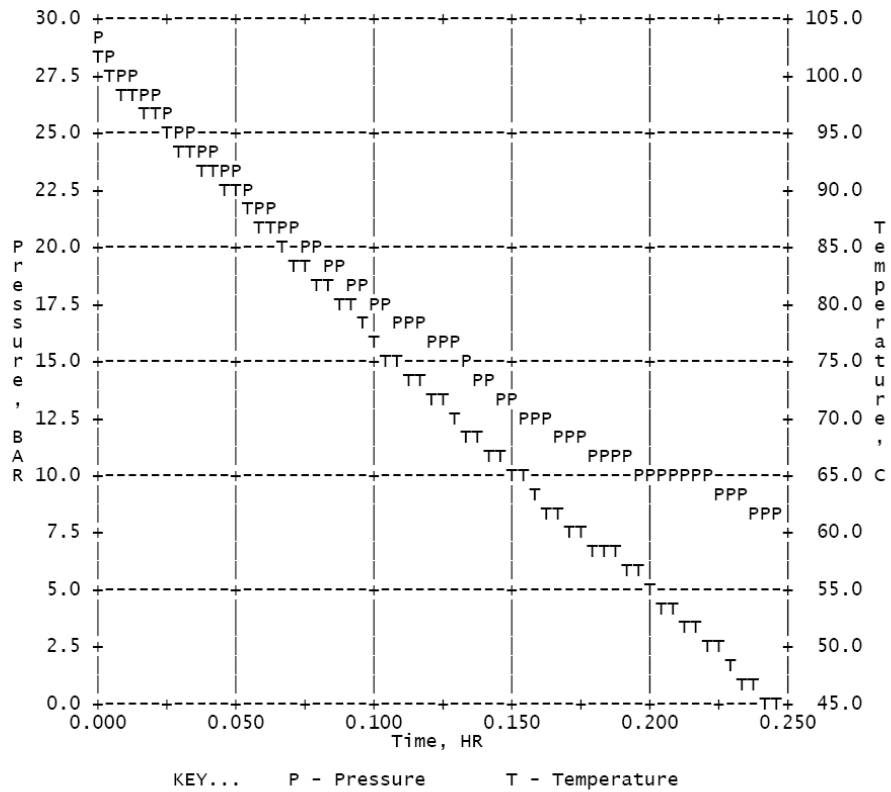
\*\*\* DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	100.9	2.607E+05	3551.624
9.6E-03	27.747	98.6	2.539E+05	3566.902
1.9E-02	26.536	96.4	2.409E+05	3597.010
2.9E-02	25.338	94.1	2.284E+05	3624.743
3.8E-02	24.158	91.7	2.164E+05	3650.599
4.8E-02	22.996	89.3	2.048E+05	3674.656
5.8E-02	21.858	86.9	1.937E+05	3696.980
6.9E-02	20.740	84.4	1.829E+05	3717.670
7.9E-02	19.650	81.9	1.725E+05	3736.795
9.0E-02	18.585	79.3	1.626E+05	3754.385
0.101	17.549	76.7	1.530E+05	3770.507
0.112	16.541	74.1	1.437E+05	3785.211
0.123	15.563	71.4	1.349E+05	3798.538
0.135	14.615	68.7	1.264E+05	3810.526
0.147	13.698	66.0	1.183E+05	3821.209
0.159	12.812	63.2	1.105E+05	3830.614
0.172	11.957	60.4	1.030E+05	3838.767
0.185	11.134	57.6	95838.476	3845.685
0.199	10.343	54.7	89007.807	3851.386
0.213	9.584	51.8	82486.700	3855.881
0.227	8.857	48.8	76268.112	3859.176
0.243	8.161	45.8	70345.215	3861.277
0.246	8.000	45.1	66789.136	3862.133
UNIT	35	SOLVED	- ' 107-BDV-0002-F	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 35, '107-BDV-0002-F' (Cont)



Pressure and Temperature Profiles



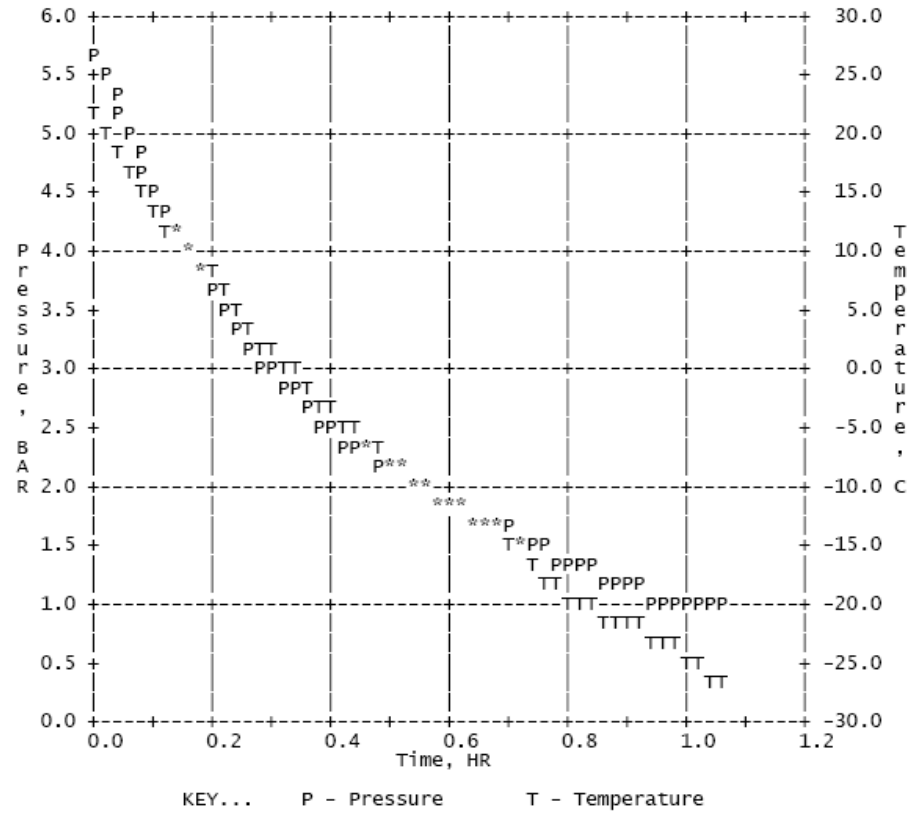
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	5.630	21.0	46631.571	3854.120
5.1E-02	5.010	17.2	44091.982	3851.577
0.102	4.467	13.6	39335.100	3845.604
0.157	3.965	9.9	35066.458	3838.302
0.218	3.504	6.2	31130.080	3829.544
0.283	3.081	2.5	27518.514	3819.362
0.354	2.696	-1.2	24216.532	3807.773
0.427	2.367	-4.8	21291.392	3795.173
0.502	2.087	-8.1	18794.707	3782.205
0.577	1.849	-11.1	16668.446	3769.121
0.654	1.645	-14.0	14849.731	3756.056
0.731	1.471	-16.7	13287.734	3743.114
0.810	1.320	-19.2	11940.488	3730.371
0.889	1.190	-21.6	10773.624	3717.882
0.969	1.076	-23.8	9758.881	3705.688
1.050	0.977	-25.9	8872.722	3693.813
UNIT	36	SOLVED	- '107-BDV-0002-C	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>



UNIT 36, '107-BDV-0002-C' (cont)  
Pressure and Temperature Profiles



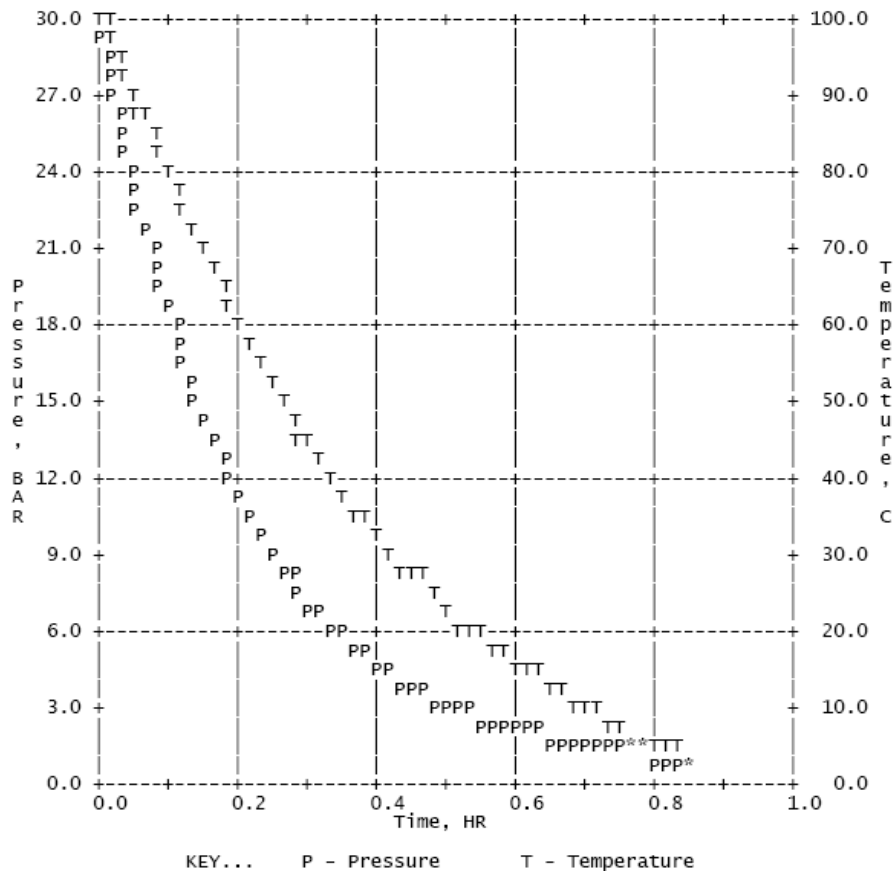
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	29. 000	100. 9	2. 607E+05	3551. 624
9. 6E-03	27. 830	98. 9	2. 544E+05	3565. 989
1. 9E-02	26. 705	96. 8	2. 422E+05	3594. 242
2. 9E-02	25. 598	94. 7	2. 306E+05	3620. 251
3. 8E-02	24. 512	92. 6	2. 195E+05	3644. 477
4. 8E-02	23. 449	90. 5	2. 088E+05	3667. 012
5. 8E-02	22. 410	88. 4	1. 985E+05	3687. 946
6. 8E-02	21. 397	86. 3	1. 886E+05	3707. 364
7. 8E-02	20. 411	84. 2	1. 791E+05	3725. 344
8. 8E-02	19. 452	82. 0	1. 700E+05	3741. 956
9. 9E-02	18. 522	79. 9	1. 613E+05	3757. 264
0. 109	17. 619	77. 8	1. 530E+05	3771. 330
0. 120	16. 745	75. 6	1. 449E+05	3784. 207
0. 131	15. 900	73. 5	1. 373E+05	3795. 947
0. 142	15. 084	71. 3	1. 299E+05	3806. 596
0. 153	14. 296	69. 2	1. 229E+05	3816. 197
0. 164	13. 536	67. 1	1. 161E+05	3824. 791
0. 176	12. 805	64. 9	1. 097E+05	3832. 414
0. 188	12. 102	62. 8	1. 036E+05	3839. 100
0. 200	11. 426	60. 7	97671. 183	3844. 881
0. 212	10. 777	58. 6	92054. 990	3849. 785
0. 224	10. 155	56. 5	86694. 327	3853. 840
0. 237	9. 559	54. 4	81580. 226	3857. 070
0. 250	8. 988	52. 3	76703. 936	3859. 497
0. 264	8. 443	50. 3	72056. 934	3861. 142
0. 278	7. 921	48. 2	67630. 919	3862. 024
0. 292	7. 424	46. 2	63417. 809	3862. 157
0. 306	6. 949	44. 2	59409. 734	3861. 558
0. 321	6. 497	42. 1	55599. 033	3860. 238
0. 336	6. 067	40. 1	51978. 259	3858. 208
0. 352	5. 658	38. 2	48540. 170	3855. 476
0. 368	5. 256	36. 1	45225. 181	3852. 012
0. 385	4. 889	34. 1	42082. 629	3847. 840
0. 402	4. 539	32. 2	39156. 511	3843. 012
0. 420	4. 208	30. 3	36384. 286	3837. 490
0. 439	3. 896	28. 4	33761. 633	3831. 274
0. 458	3. 600	26. 5	31282. 460	3824. 356
0. 478	3. 321	24. 7	28940. 951	3816. 728
0. 499	3. 057	22. 8	26731. 499	3808. 376
0. 521	2. 810	21. 0	24648. 665	3799. 286
0. 544	2. 577	19. 2	22687. 232	3789. 436
0. 567	2. 358	17. 5	20842. 212	3778. 805
0. 592	2. 153	15. 7	19108. 769	3767. 364
0. 619	1. 960	14. 0	17482. 282	3755. 081
0. 646	1. 781	12. 3	15958. 329	3741. 923
0. 675	1. 613	10. 6	14532. 671	3727. 849
0. 706	1. 457	8. 9	13201. 249	3712. 816
0. 739	1. 313	7. 3	11960. 187	3696. 780
0. 774	1. 179	5. 7	10805. 775	3679. 692
0. 811	1. 055	4. 1	9734. 450	3661. 506
0. 850	0. 940	2. 5	8742. 794	3642. 177
UNI T	37	SOLVED	- ' BDV-0002-S '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 37, 'BDV-0002-S' (Cont)  
Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

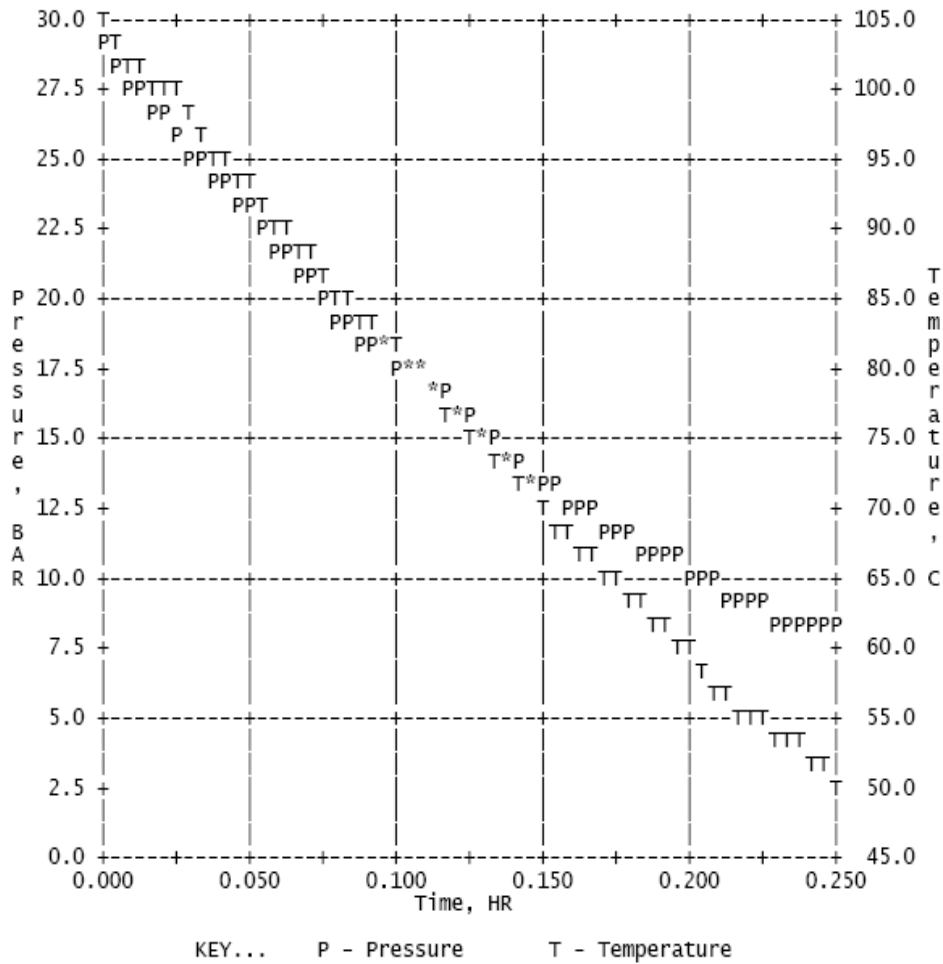
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	104.7	2.571E+05	3537.093
9.8E-03	27.730	102.4	2.504E+05	3552.066
1.9E-02	26.505	100.1	2.374E+05	3581.538
2.9E-02	25.294	97.8	2.251E+05	3608.633
3.9E-02	24.102	95.4	2.131E+05	3633.878
4.9E-02	22.929	93.0	2.016E+05	3657.351
5.9E-02	21.779	90.6	1.905E+05	3679.127
7.0E-02	20.654	88.1	1.799E+05	3699.279
8.1E-02	19.555	85.6	1.696E+05	3717.869
9.1E-02	18.483	83.0	1.597E+05	3734.956
0.103	17.440	80.5	1.502E+05	3750.591
0.114	16.426	77.8	1.410E+05	3764.820
0.126	15.442	75.2	1.323E+05	3777.683
0.138	14.490	72.5	1.239E+05	3789.217
0.150	13.568	69.8	1.158E+05	3799.452
0.162	12.679	67.0	1.081E+05	3808.414
0.176	11.821	64.2	1.007E+05	3816.126
0.189	10.996	61.4	93594.138	3822.604
0.203	10.203	58.5	86837.285	3827.863
0.218	9.443	55.6	80389.401	3831.910
0.233	8.715	52.7	74243.435	3834.751
0.248	8.019	49.7	68392.535	3836.387
0.249	7.983	49.5	65395.275	3836.920
UNI T 31	SOLVED	-	' 107-BDV-0002-Fi re	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 31, '107-BDV-0002-Fire', 'summer' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

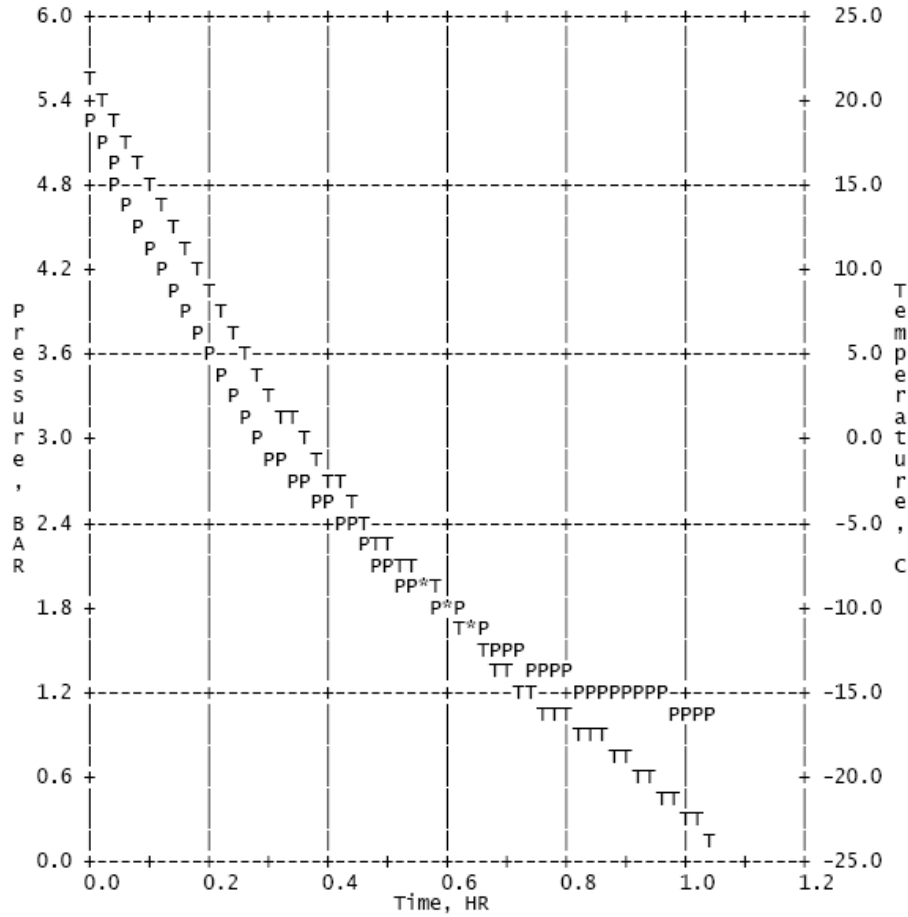
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	5.320	21.0	43625.286	3824.278
5.5E-02	4.715	17.1	41174.733	3821.302
0.110	4.187	13.5	36593.207	3814.420
0.171	3.701	9.8	32495.390	3806.223
0.236	3.255	6.0	28726.082	3796.548
0.308	2.848	2.3	25277.671	3785.425
0.380	2.502	-1.2	22232.657	3773.286
0.455	2.208	-4.5	19641.103	3760.772
0.530	1.958	-7.6	17428.513	3748.072
0.606	1.743	-10.4	15532.536	3735.330
0.683	1.558	-13.1	13901.650	3722.657
0.761	1.398	-15.7	12493.270	3710.134
0.840	1.260	-18.0	11272.157	3697.822
0.920	1.140	-20.3	10209.146	3685.765
1.001	1.035	-22.4	9280.122	3673.993
1.042	0.987	-23.4	8649.351	3665.138
UNIT	32	SOLVED	- ' 107-BDV-0002-C '	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 32, '107-BDV-0002-C', 'Summer' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

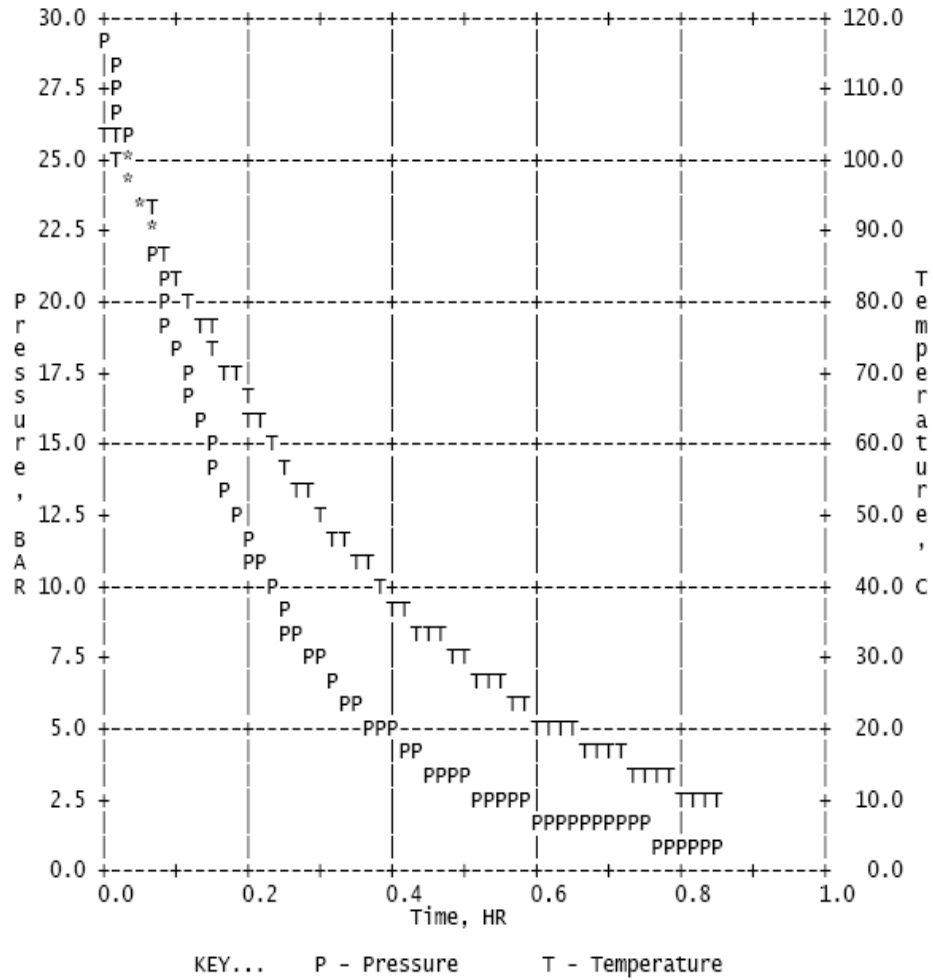
\*\*\* DEPRESSURI NG SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	29. 000	104. 7	2. 571E+05	3537. 093
9. 8E-03	27. 811	102. 6	2. 508E+05	3551. 225
1. 9E-02	26. 668	100. 5	2. 387E+05	3578. 989
2. 9E-02	25. 545	98. 5	2. 271E+05	3604. 502
3. 9E-02	24. 444	96. 4	2. 160E+05	3628. 252
4. 9E-02	23. 366	94. 3	2. 054E+05	3650. 336
5. 9E-02	22. 313	92. 2	1. 951E+05	3670. 846
6. 9E-02	21. 287	90. 0	1. 853E+05	3689. 851
8. 0E-02	20. 288	87. 9	1. 758E+05	3707. 433
9. 0E-02	19. 317	85. 8	1. 668E+05	3723. 658
0. 101	18. 374	83. 7	1. 581E+05	3738. 590
0. 111	17. 461	81. 5	1. 497E+05	3752. 285
0. 122	16. 576	79. 4	1. 418E+05	3764. 797
0. 133	15. 721	77. 3	1. 341E+05	3776. 173
0. 145	14. 895	75. 1	1. 268E+05	3786. 457
0. 156	14. 098	73. 0	1. 198E+05	3795. 690
0. 168	13. 330	70. 9	1. 131E+05	3803. 910
0. 180	12. 590	68. 8	1. 066E+05	3811. 150
0. 192	11. 879	66. 6	1. 005E+05	3817. 440
0. 205	11. 196	64. 5	94644. 686	3822. 811
0. 217	10. 540	62. 5	89048. 284	3827. 286
0. 230	9. 911	60. 4	83707. 049	3830. 890
0. 244	9. 309	58. 3	78612. 114	3833. 642
0. 257	8. 733	56. 2	73754. 846	3835. 562
0. 271	8. 182	54. 2	69126. 848	3836. 665
0. 286	7. 656	52. 1	64719. 941	3836. 963
0. 301	7. 154	50. 1	60526. 173	3836. 470
0. 316	6. 662	48. 0	56483. 101	3835. 184
0. 332	6. 207	46. 0	52641. 600	3833. 109
0. 348	5. 774	44. 0	49047. 120	3830. 259
0. 365	5. 363	42. 1	45634. 202	3826. 634
0. 382	4. 972	40. 1	42397. 966	3822. 231
0. 400	4. 602	38. 2	39331. 731	3817. 046
0. 419	4. 252	36. 3	36429. 029	3811. 068
0. 438	3. 920	34. 4	33683. 640	3804. 287
0. 458	3. 607	32. 5	31089. 559	3796. 684
0. 479	3. 312	30. 6	28640. 998	3788. 240
0. 501	3. 034	28. 8	26332. 379	3778. 929
0. 524	2. 772	27. 0	24158. 347	3768. 723
0. 549	2. 527	25. 2	22113. 745	3757. 587
0. 574	2. 297	23. 4	20193. 613	3745. 481
0. 601	2. 081	21. 7	18393. 254	3732. 362
0. 630	1. 881	19. 9	16708. 152	3718. 179
0. 660	1. 693	18. 2	15133. 948	3702. 879
0. 692	1. 520	16. 5	13666. 497	3686. 405
0. 726	1. 359	14. 8	12301. 795	3668. 697
0. 763	1. 210	13. 2	11036. 063	3649. 693
0. 803	1. 073	11. 5	9865. 602	3629. 338
0. 845	0. 948	9. 9	8786. 773	3607. 578
UNI T	33	SOLVED	- ' BDV-0002-S '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 33, 'BDV-0002-S', 'summer' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.8.2 BDV 0024

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
107-C-101	107-A-101		VAPOR	0	0	150635	53.34	0.0000	1.0000
107-A-101	107-D-101		LIQUID	150635	432.264	0	0	1.0000	0.0000
UNIT 114	107-D-101		LIQUID	1	429.450	0	0	1.0000	0.0000
107-D-101	P-101A/B		LIQUID	109468	432.264	0	0	1.0000	0.0000
107-D-101	P-107A/B		LIQUID	41167	432.264	0	0	1.0000	0.0000
107-A-101					432.264		0.000		
107-D-101					432.264		0.000		
		<b>TOTAL</b>							

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
107-C-101	107-A-101	16	406.4	12.7	381.0	15.00	0	90	0.000	10.261
107-A-101	107-D-101	14	355.6	9.53	336.5	13.25	10	45	4.892	0.000
UNIT 114	107-D-101	4	114.3	6.02	102.3	4.03	0	45	0.370	0.000
107-D-101	P-101A/B	16	406.1	12.7	380.7	14.99	8	25	3.756	0.000
107-D-101	P-107A/B	8	219.2	6.35	206.5	8.13	8	20	0.938	0.000
107-A-101									10.9	0
107-D-101									33.80	55.59
		<b>TOTAL</b>							54.653	65.848

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
107-C-101	107-A-101	10.261	0	547	114.907	0.000	0.000	0.000
107-A-101	107-D-101	4.892	2115	0	61.443	0.000	0.000	0.000
UNIT 114	107-D-101	0.370	159	0	16.159	0.000	0.000	0.000
107-D-101	P-101A/B	3.756	1624	0	42.101	10.206	31.895	42.101
107-D-101	P-107A/B	0.938	405	0	19.282	5.509	13.773	19.282
107-A-101		10.9	4712	0				0
107-D-101		89.38	14609	0				57.19
<b>TOTAL</b>		120.501	23623	547	253.892	15.716	45.668	<b>118.576</b>

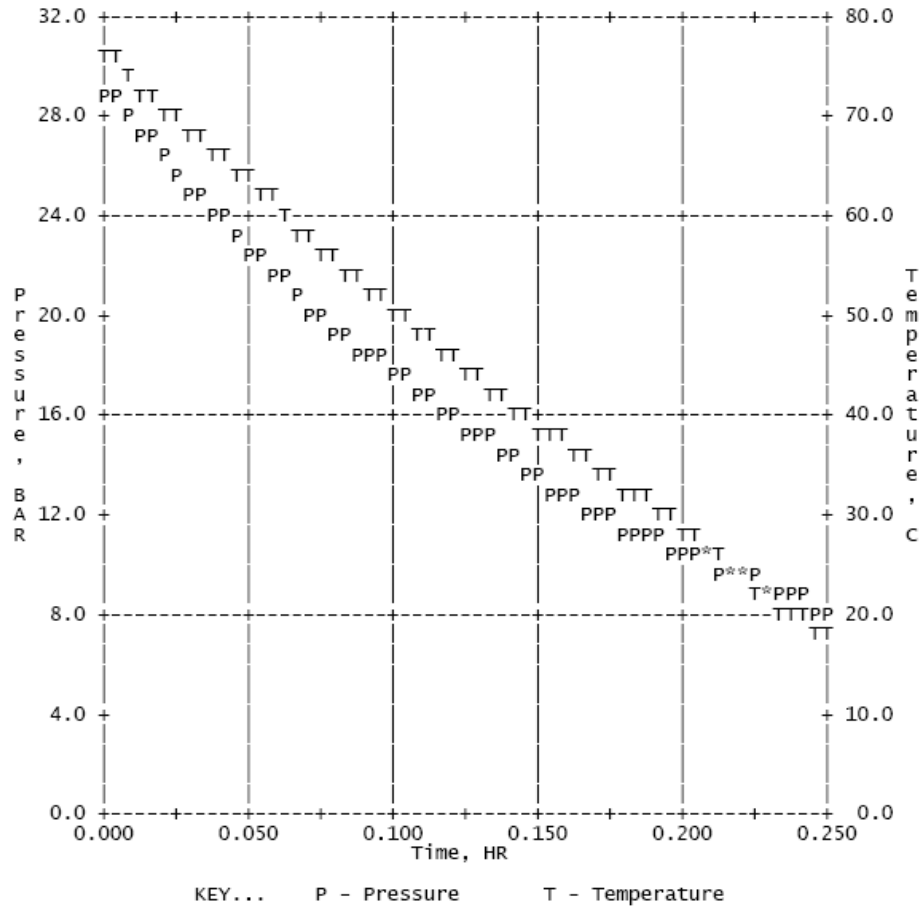
\*\*\* DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	75.6	1.058E+05	1388.286
1.0E-02	27.694	73.2	1.028E+05	1395.552
2.0E-02	26.426	70.7	97167.997	1409.834
3.1E-02	25.150	68.2	91748.371	1422.942
4.1E-02	23.883	65.6	86481.336	1435.177
4.6E-02	23.246	64.2	82613.750	1444.014
5.7E-02	21.988	61.5	78856.291	1451.977
6.8E-02	20.765	58.7	74017.769	1462.069
8.0E-02	19.563	55.9	69382.283	1471.288
9.1E-02	18.392	53.0	64926.508	1479.719
0.103	17.249	50.0	60653.581	1487.377
0.116	16.137	47.0	56554.194	1494.300
0.129	15.065	43.9	52636.890	1500.493
0.142	14.022	40.8	48888.736	1505.988
0.155	13.015	37.6	45297.739	1510.816
0.170	12.045	34.4	41871.474	1514.972
0.184	11.121	31.1	38618.856	1518.459
0.200	10.228	27.8	35522.369	1521.294
0.216	9.377	24.4	32572.690	1523.495
0.233	8.566	20.9	29781.990	1525.050
0.250	7.839	17.6	27213.385	1525.958
UNIT 38	SOLVED	-	' 107-BDV-0024-F '	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 38, '107-BDV-0024-F' (Cont)  
Pressure and Temperature Profiles



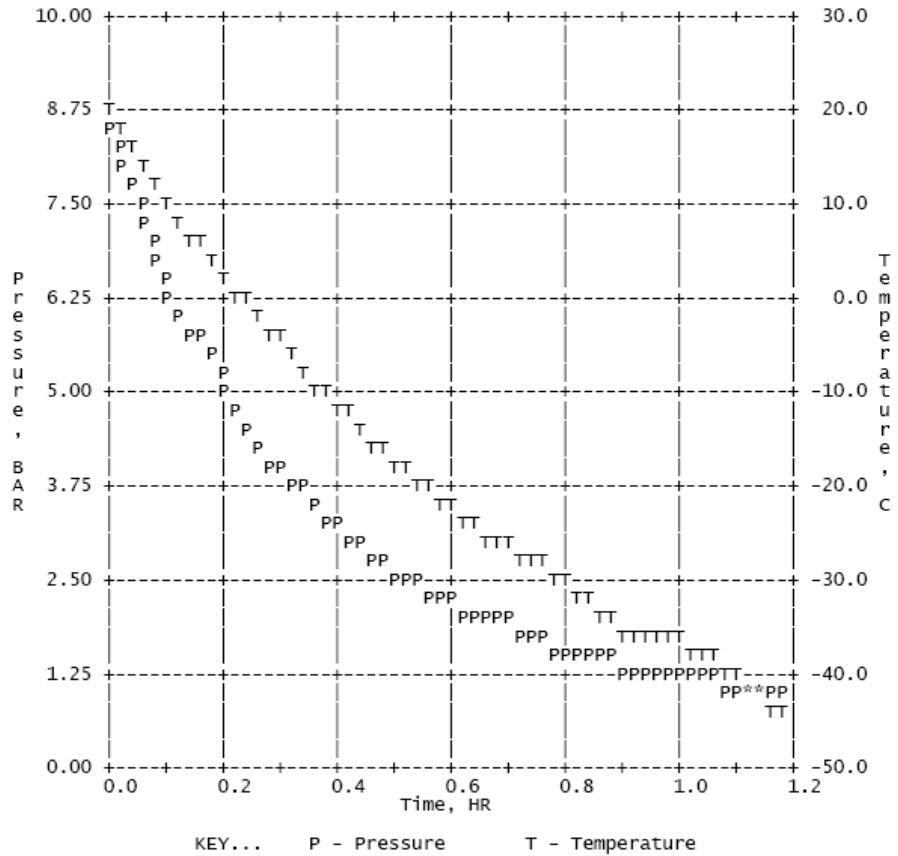
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.550	21.0	28370.499	1525.683
4.0E-02	7.631	16.8	26840.426	1525.969
8.1E-02	6.824	12.7	23974.477	1526.162
0.125	6.075	8.7	21403.423	1525.513
0.171	5.414	4.7	19080.454	1524.116
0.217	4.826	9.5E-01	17028.346	1522.076
0.265	4.308	-2.7	15215.311	1519.495
0.314	3.853	-6.2	13622.479	1516.476
0.364	3.454	-9.5	12225.118	1513.112
0.415	3.104	-12.6	10998.564	1509.481
0.467	2.796	-15.7	9919.711	1505.644
0.520	2.523	-18.5	8966.681	1501.645
0.574	2.285	-21.3	8127.914	1497.548
0.628	2.074	-23.9	7388.510	1493.399
0.684	1.889	-26.3	6734.965	1489.224
0.740	1.723	-28.7	6155.437	1485.050
0.797	1.575	-30.9	5637.541	1480.871
0.855	1.445	-33.0	5176.607	1476.731
0.914	1.329	-35.1	4766.574	1472.656
0.973	1.225	-37.0	4401.327	1468.663
1.032	1.132	-38.8	4073.942	1464.745
1.092	1.049	-40.6	3780.269	1460.913
1.122	1.012	-41.4	3578.270	1458.059
1.185	0.939	-43.1	3392.798	1455.322
UNI T 39	SOLVED	- ' 107-BDV-0024-C		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 39, '107-BDV-0024-c' (Cont)  
Pressure and Temperature Profiles

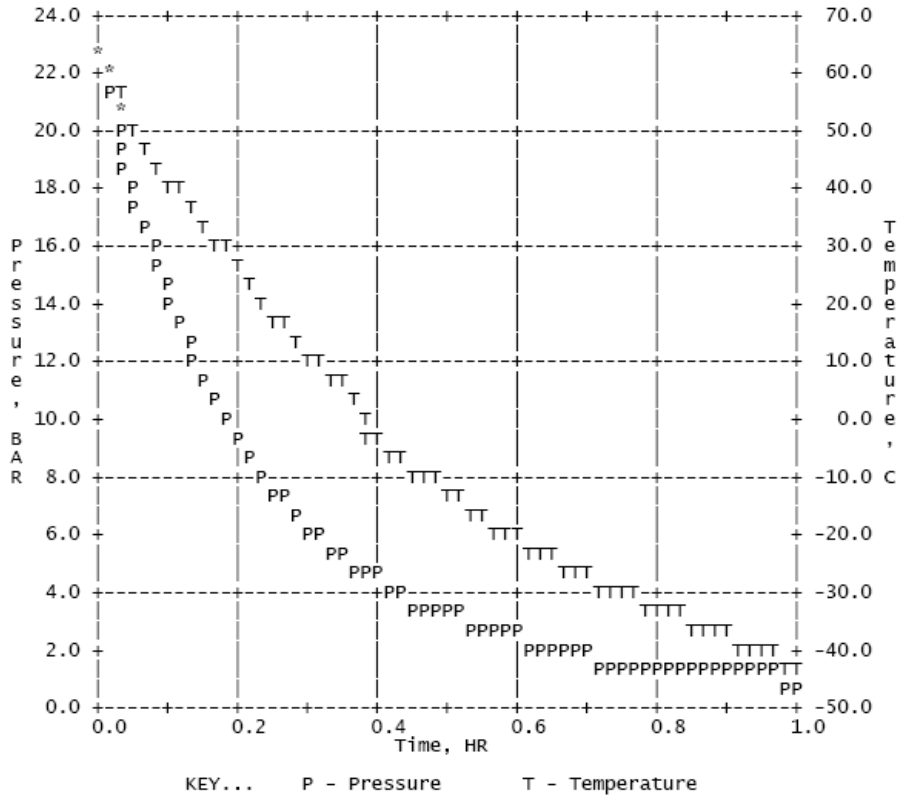




	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	22.400	62.5	77991.326	1454.008
1.4E-02	21.078	59.5	75424.553	1459.111
2.8E-02	19.837	56.6	70497.340	1469.061
4.2E-02	18.638	53.7	65899.007	1477.870
5.6E-02	17.477	50.7	61526.518	1485.804
7.1E-02	16.356	47.7	57362.617	1492.928
8.7E-02	15.261	44.6	53377.127	1499.312
0.103	14.225	41.5	49593.328	1504.952
0.119	13.217	38.3	46005.520	1509.862
0.137	12.263	35.2	42596.325	1514.099
0.154	11.339	32.0	39364.980	1517.665
0.173	10.452	28.7	36274.150	1520.616
0.193	9.629	25.5	33377.005	1522.919
0.213	8.836	22.1	30658.411	1524.591
0.235	8.085	18.8	28074.577	1525.680
0.257	7.377	15.4	25644.849	1526.177
0.281	6.709	12.0	23363.896	1526.094
0.306	6.084	8.6	21228.572	1525.442
0.333	5.502	5.2	19240.073	1524.235
0.361	4.962	1.8	17395.940	1522.493
0.391	4.455	-1.7	15679.967	1520.216
0.424	3.990	-5.2	14087.826	1517.416
0.458	3.554	-8.7	12611.596	1514.092
0.496	3.153	-12.3	11241.864	1510.233
0.536	2.786	-15.8	9983.252	1505.866
0.580	2.449	-19.5	8827.929	1500.989
0.628	2.145	-23.0	7775.716	1495.629
0.681	1.870	-26.6	6822.655	1489.812
0.738	1.621	-30.3	5957.184	1483.512
0.802	1.397	-33.9	5173.098	1476.720
0.868	1.209	-37.4	4488.302	1469.670
0.936	1.054	-40.5	3916.012	1462.744
1.004	0.926	-43.4	3441.948	1456.080
UNI T	40	SOLVED	- ' 107-BDV-0024-S '	

UNIT 40, '107-BDV-0024-s' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.8.3 BDV 0032

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
SDV0035	107-C-102	41	VAPOR	0	0	33750	43.54	0.0000	1.0000
SDV001	107-C-102	86	MIXED	22260	537.988	19288	21.496	0.0441	0.9559
107-C-102	107-A-102	87	VAPOR	0	0	71536	20.633	0.0000	1.0000
SDV0055A/B	107-C-102	88	LIQUID	47597	517.536	0	0	1.0000	0.0000
107-C-102	107-E-102	TRAY25	LIQUID	74737	528.6	0	0	1.0000	0.0000
107-E-102	107-C-102	90	LIQUID	17608	537.7	0	0	1.0000	0.0000
107-E-102	107-C-102	TRAY26	VAPOR	0	0.0	57129	23.48	0.0000	1.0000
107-C-102	SDV0041	90	LIQUID	17608	537.7	0	0	1.0000	0.0000
107-E-102	tray26				537.714		23.480		
107-C-102 bottom	90/tray26				537.714		23.480		
107-C-101 trays 1-18	86				537.988		21.496		
107-C-101 top	88/87				517.536		20.663		
	<b>TOTAL</b>								



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
SDV0035	107-C-102	2	60.2	5.54	49.1	1.93	0	70	0.000	0.133
SDV001	107-C-102	10	273	6.35	260.3	10.25	20	70	0.211	4.578
107-C-102	107-A-102	16	406.4	6.35	393.7	15.50	10	35	0.000	5.478
SDV0055A/B	107-C-102	8	219.1	6.35	206.4	8.13	12	15	0.903	0.000
107-C-102	107-E-102	8	219.1	6.35	206.4	8.13	5	5	0.335	0.000
107-E-102	107-C-102	6	168.3	7.11	154.1	6.07	3	5	0.149	0.000
107-E-102	107-C-102	14	355.6	6.35	342.9	13.50	3	5	0.000	0.739
107-C-102	SDV0041	6	168.3	7.11	154.1	6.07	0	10	0.186	0.000
107-E-102									5.831	2.922
107-C-102 bottom									6.411	12.007
107-C-101 trays 1-18									10.566	42.033
107-C-101 top									5.831	29.830
	<b>TOTAL</b>								30.423	97.721

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

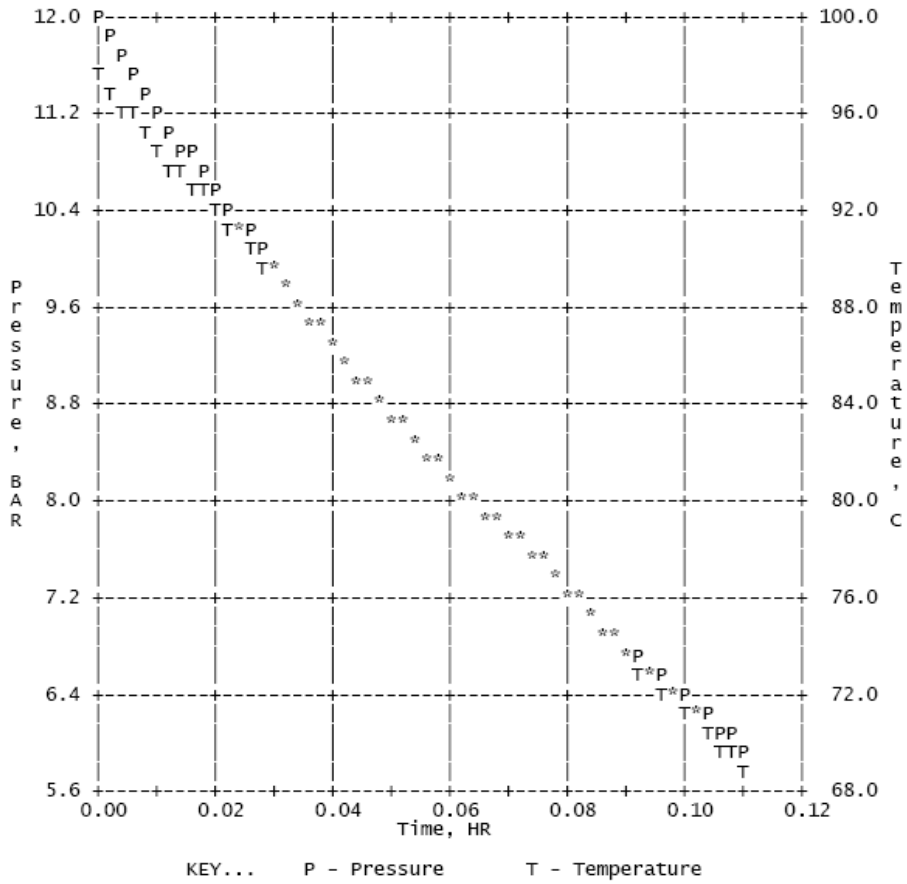
FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
SDV0035	107-C-102	0.133	0	6	13.239	0.000	0.000	0.000
SDV001	107-C-102	4.789	114	98	77.189	0.000	2.646	2.646
107-C-102	107-A-102	5.478	0	113	57.453	0.000	0.000	0.000
SDV0055A/B	107-C-102	0.903	468	0	18.585	8.260	10.325	18.585
107-C-102	107-E-102	0.335	177	0	6.883	3.442	3.442	6.883
107-E-102	107-C-102	0.149	80	0	4.230	1.586	2.644	4.230
107-E-102	107-C-102	0.739	0	17	8.937	0.000	0.000	0.000
107-C-102	SDV0041	0.186	100	0	5.287	0.000	5.287	5.287
	107-E-102	8.7525884	3135	69				18.201
	107-C-102 bottom	18.419	3447	282				14.09
	107-C-101 trays 1-18	52.599	5684	904				0
	107-C-101 top	35.661	3018	616				0
	<b>TOTAL</b>	128.144	16223	2105	186.516	13.288	24.344	<b>69.927</b>

DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.000	97.6	70553.565	2328.444
1.0E-02	11.232	94.6	68212.516	2331.294
2.1E-02	10.514	91.7	63700.318	2336.768
3.1E-02	9.821	88.7	59447.016	2341.443
4.2E-02	9.152	85.7	55371.613	2345.434
5.4E-02	8.509	82.7	51472.381	2348.746
6.5E-02	7.892	79.6	47746.660	2351.383
7.8E-02	7.301	76.5	44192.139	2353.347
9.0E-02	6.736	73.3	40805.796	2354.639
0.104	6.196	70.1	37584.678	2355.261
0.111	5.933	68.4	35251.514	2355.343
UNIT 30	SOLVED	- ' 107-BDV-0032-F '		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 30, '107-BDV-0032-F' (Cont)  
Pressure and Temperature Profiles





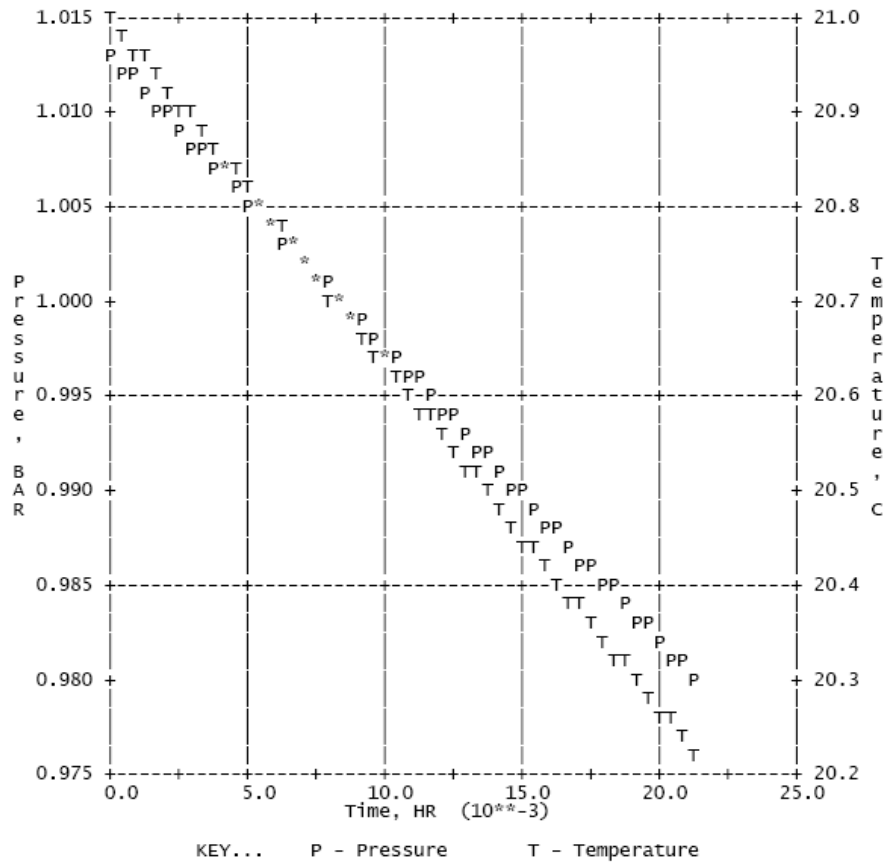
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	1.013	21.0	6082.826	2279.856
2.1E-02	0.980	20.2	5985.388	2278.681
UNIT 31	SOLVED	- 'BDV-0032-C'		

UNIT 31, 'BDV-0032-C' (Cont)



Pressure and Temperature Profiles



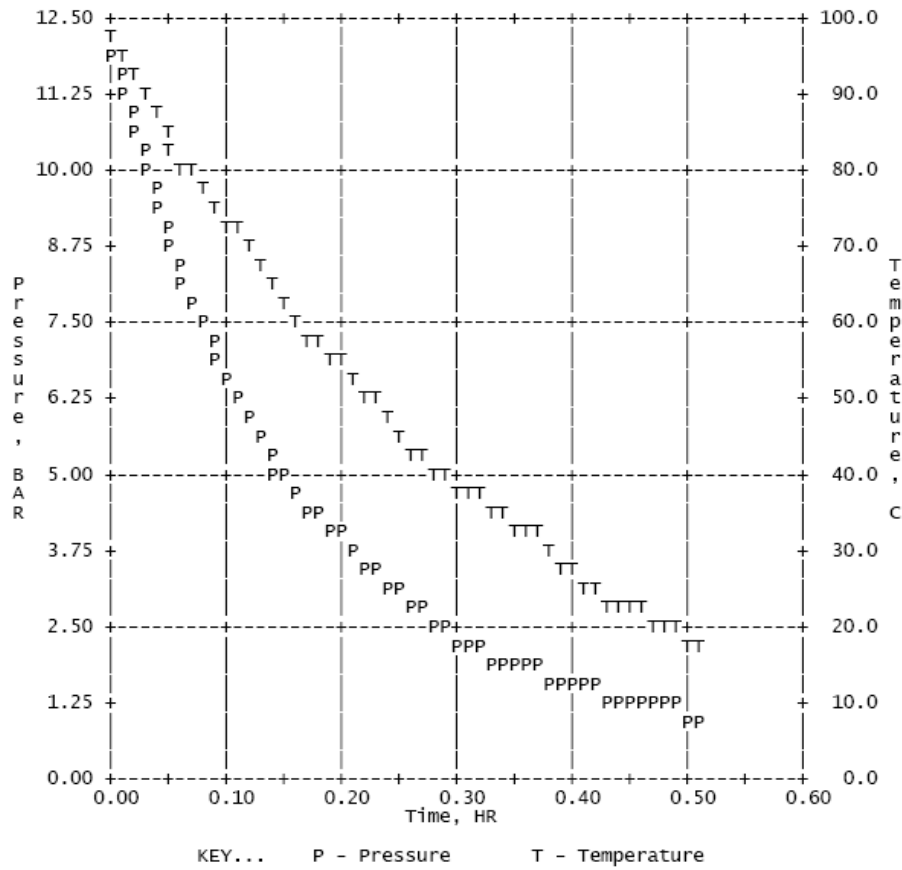
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	12. 000	97. 6	70553. 565	2328. 444
1. 0E-02	11. 265	94. 8	68311. 201	2331. 193
2. 1E-02	10. 580	92. 0	63996. 151	2336. 468
3. 1E-02	9. 921	89. 2	59943. 087	2340. 989
4. 2E-02	9. 288	86. 5	56074. 128	2344. 873
5. 3E-02	8. 682	83. 7	52386. 270	2348. 135
6. 5E-02	8. 103	80. 9	48874. 194	2350. 790
7. 7E-02	7. 549	78. 1	45532. 766	2352. 852
8. 9E-02	7. 020	75. 2	42356. 939	2354. 334
0. 102	6. 517	72. 4	39341. 724	2355. 248
0. 115	6. 038	69. 5	36482. 241	2355. 604
0. 129	5. 584	66. 7	33773. 687	2355. 413
0. 143	5. 153	63. 8	31211. 282	2354. 684
0. 158	4. 746	60. 9	28790. 319	2353. 426
0. 173	4. 361	58. 0	26506. 151	2351. 647
0. 190	3. 998	55. 2	24354. 182	2349. 353
0. 207	3. 657	52. 2	22329. 868	2346. 551
0. 225	3. 336	49. 3	20427. 280	2343. 244
0. 243	3. 036	46. 4	18643. 522	2339. 440
0. 263	2. 755	43. 5	16975. 550	2335. 147
0. 284	2. 494	40. 6	15417. 442	2330. 367
0. 307	2. 250	37. 6	13964. 935	2325. 103
0. 330	2. 024	34. 7	12613. 741	2319. 359
0. 356	1. 815	31. 7	11359. 618	2313. 137
0. 383	1. 622	28. 8	10198. 361	2306. 438
0. 412	1. 444	25. 9	9125. 802	2299. 265
0. 444	1. 281	22. 9	8137. 810	2291. 617
0. 478	1. 131	20. 0	7230. 302	2283. 494
0. 514	0. 995	17. 0	6399. 237	2274. 894
UNI T	29	SOLVED	- ' BDV-0032-S	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 29, 'BDV-0032-s' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



#### 5.8.4 BDV 0054

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
107-C-102	107-A-102		VAPOR	0	0	71536	20.633	0.0000	1.0000
107-A-102	107-D-102		LIQUID	71536	517.421	0	0	1.0000	0.0000
UNIT 115	107-D-102		LIQUID	1	517.421	0	0	1.0000	0.0000
107-D-102	P-102A/B		LIQUID	47597	517.536	0	0	1.0000	0.0000
107-D-102	P-103A/B		LIQUID	23939	517.421	0	0	1.0000	0.0000
107-A-102					517.421		0.000		
107-D-102					517.536		0.000		
	<b>TOTAL</b>								

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
107-C-102	107-A-102	16	406.4	6.35	393.7	15.50	0	80	0.000	9.739
107-A-102	107-D-102	12	323.9	6.35	311.2	12.25	10	40	3.803	0.000
UNIT 115	107-D-102	4	114.3	6.02	102.3	4.03	0	70	0.575	0.000
107-D-102	P-102A/B	10	273.1	6.35	260.4	10.25	8	15	1.225	0.000
107-D-102	P-103A/B	8	219.2	6.35	206.5	8.13	8	20	0.938	0.000
107-A-102									5.7	0
107-D-102									14.74	15.07
	<b>TOTAL</b>								26.985	24.813


	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
107-C-102	107-A-102	9.739	0	201	102.139	0.000	0.000	0.000
107-A-102	107-D-102	3.803	1968	0	50.878	0.000	0.000	0.000
UNIT 115	107-D-102	0.575	297	0	25.136	0.000	0.000	0.000
107-D-102	P-102A/B	1.225	634	0	19.733	6.864	12.870	19.733
107-D-102	P-103A/B	0.938	485	0	19.282	5.509	13.773	19.282
107-A-102		5.7	2949	0				0
107-D-102		29.819075	7631	0				29.13
	<b>TOTAL</b>	51.799	13965	201	217.169	12.373	26.642	68.145

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

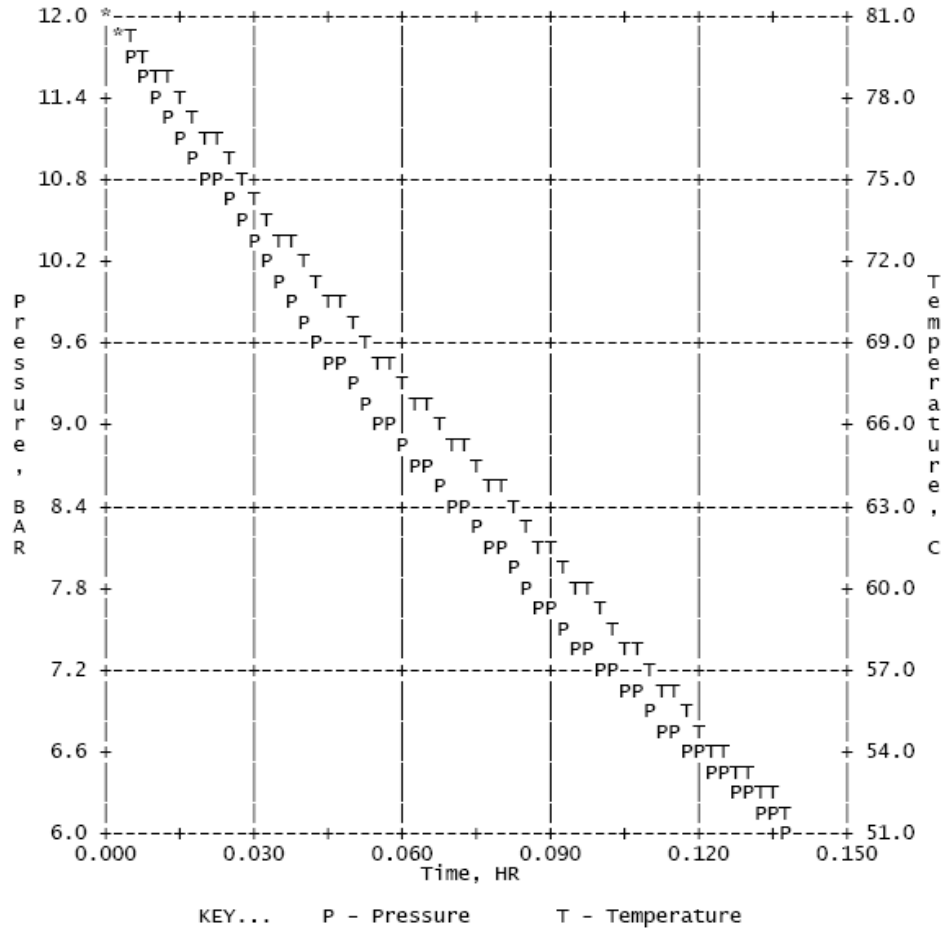
\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.000	81.2	38471.876	1247.665
1.4E-02	11.155	77.8	37065.770	1249.390
2.9E-02	10.370	74.5	34365.915	1252.686
4.4E-02	9.613	71.1	31834.460	1255.439
5.9E-02	8.885	67.7	29415.291	1257.730
7.5E-02	8.187	64.2	27108.929	1259.559
9.2E-02	7.520	60.6	24914.402	1260.926
0.110	6.885	57.0	22832.350	1261.831
0.129	6.284	53.3	20865.208	1262.272
0.133	6.133	52.4	19671.801	1262.365
0.138	5.988	51.4	19203.584	1262.327
UNIT	32	SOLVED	- ' 107-BDV-0054-F '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 32, '107-BDV-0054-F' (Cont)

Pressure and Temperature Profiles



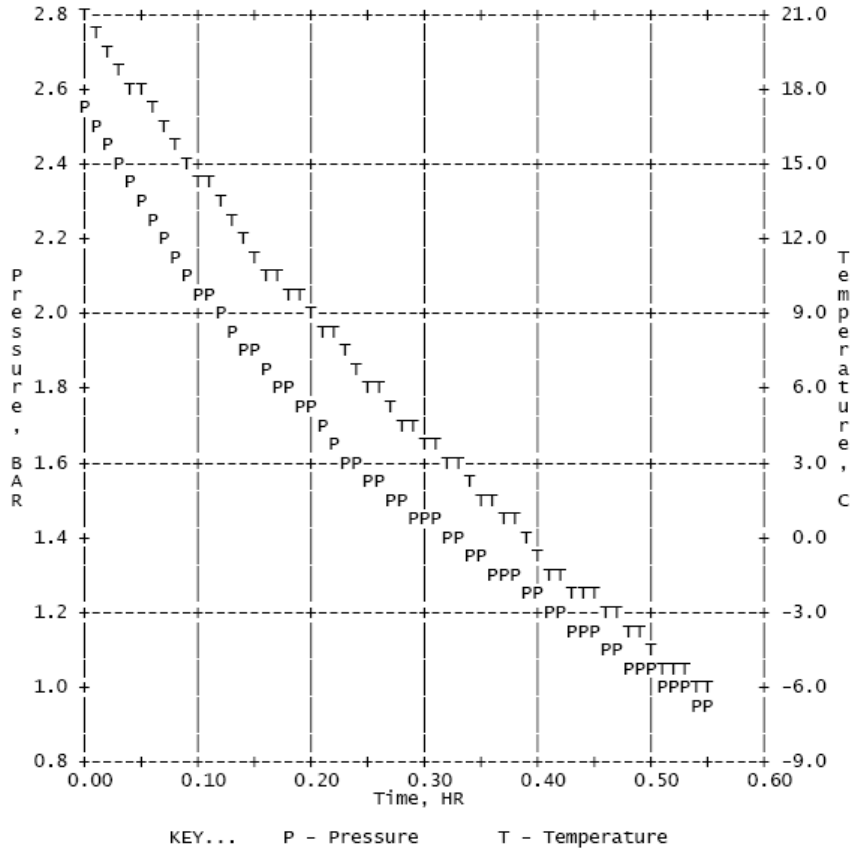
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	2.550	21.0	8182.049	1246.632
2.0E-02	2.443	19.7	8014.542	1245.997
4.0E-02	2.342	18.3	7688.682	1244.694
6.0E-02	2.246	17.1	7379.993	1243.378
8.0E-02	2.154	15.8	7085.916	1242.042
0.101	2.067	14.5	6804.572	1240.685
0.122	1.983	13.3	6535.406	1239.307
0.143	1.904	12.1	6279.462	1237.919
0.164	1.827	10.9	6033.831	1236.510
0.186	1.753	9.7	5796.742	1235.074
0.208	1.683	8.5	5571.390	1233.632
0.230	1.618	7.4	5358.144	1232.195
0.252	1.554	6.2	5154.381	1230.750
0.275	1.494	5.1	4958.777	1229.291
0.298	1.436	4.0	4772.109	1227.829
0.321	1.381	2.9	4593.657	1226.363
0.344	1.328	1.9	4423.578	1224.898
0.367	1.278	8.4E-01	4260.848	1223.430
0.391	1.231	-1.8E-01	4105.661	1221.966
0.415	1.187	-1.1	3960.825	1220.537
0.439	1.143	-2.1	3822.101	1219.111
0.463	1.101	-3.1	3686.795	1217.659
0.487	1.062	-4.0	3557.804	1216.216
0.512	1.024	-5.0	3434.960	1214.785
0.524	1.006	-5.4	3345.919	1213.706
0.549	0.971	-6.4	3260.232	1212.645
UNI T    33	SOLVED	- ' 107-BDV-0054-C '		





UNIT 33, '107-BDV-0054-C' (cont)  
Pressure and Temperature Profiles



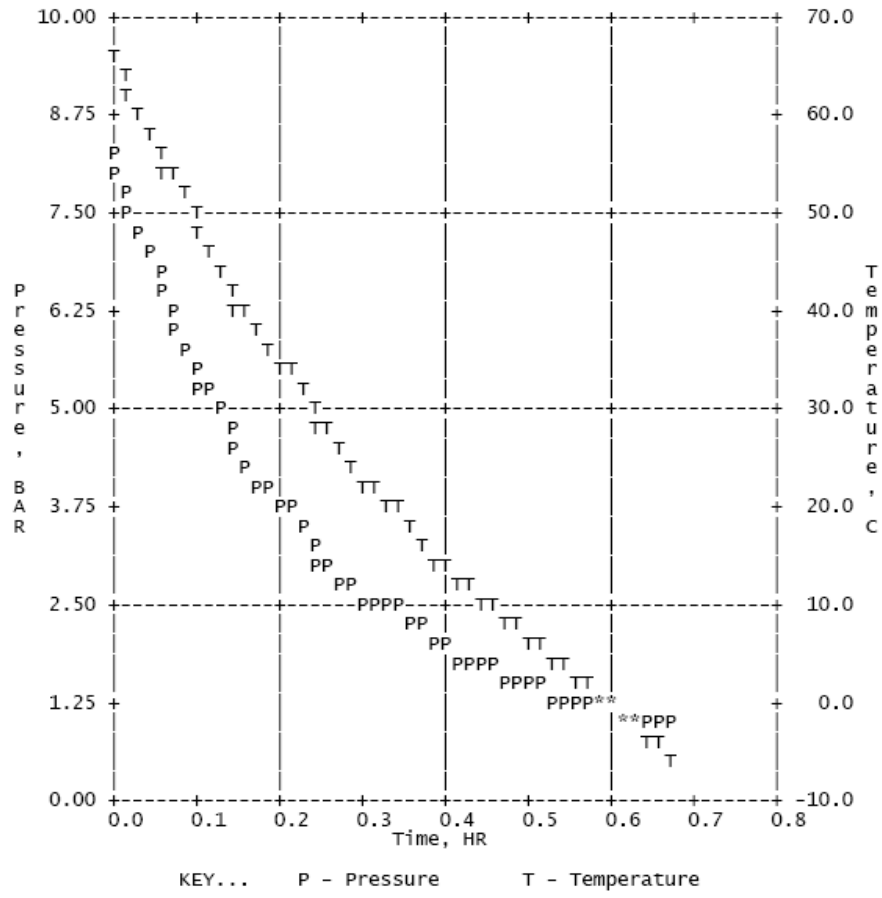
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	8. 300	65. 2	26344. 249	1260. 237
2. 0E-02	7. 615	61. 5	25245. 925	1260. 827
3. 9E-02	6. 997	58. 0	23160. 970	1261. 817
6. 0E-02	6. 414	54. 5	21248. 666	1262. 334
8. 1E-02	5. 869	51. 0	19460. 640	1262. 425
0. 103	5. 366	47. 6	17804. 880	1262. 111
0. 126	4. 899	44. 2	16276. 220	1261. 416
0. 149	4. 473	40. 8	14871. 243	1260. 371
0. 173	4. 084	37. 6	13592. 758	1259. 017
0. 198	3. 729	34. 4	12427. 649	1257. 386
0. 223	3. 409	31. 3	11371. 171	1255. 517
0. 249	3. 118	28. 3	10414. 603	1253. 445
0. 275	2. 855	25. 4	9547. 215	1251. 197
0. 301	2. 617	22. 6	8763. 084	1248. 806
0. 328	2. 401	19. 9	8052. 581	1246. 293
0. 356	2. 205	17. 2	7407. 563	1243. 676
0. 383	2. 028	14. 7	6822. 399	1240. 977
0. 412	1. 869	12. 3	6294. 653	1238. 232
0. 440	1. 726	9. 9	5818. 887	1235. 462
0. 469	1. 596	7. 7	5388. 500	1232. 677
0. 498	1. 478	5. 5	4997. 418	1229. 879
0. 528	1. 370	3. 4	4640. 926	1227. 073
0. 558	1. 274	1. 4	4318. 180	1224. 288
0. 588	1. 185	-4. 8E-01	4025. 728	1221. 537
0. 618	1. 104	-2. 3	3756. 828	1218. 787
0. 649	1. 030	-4. 1	3510. 602	1216. 059
0. 664	0. 996	-5. 0	3338. 920	1214. 008
UNI T 34	SOLVED	-	' 107-BDV-0054-S '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 34, '107-BDV-0054-S' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY (Summer Case)

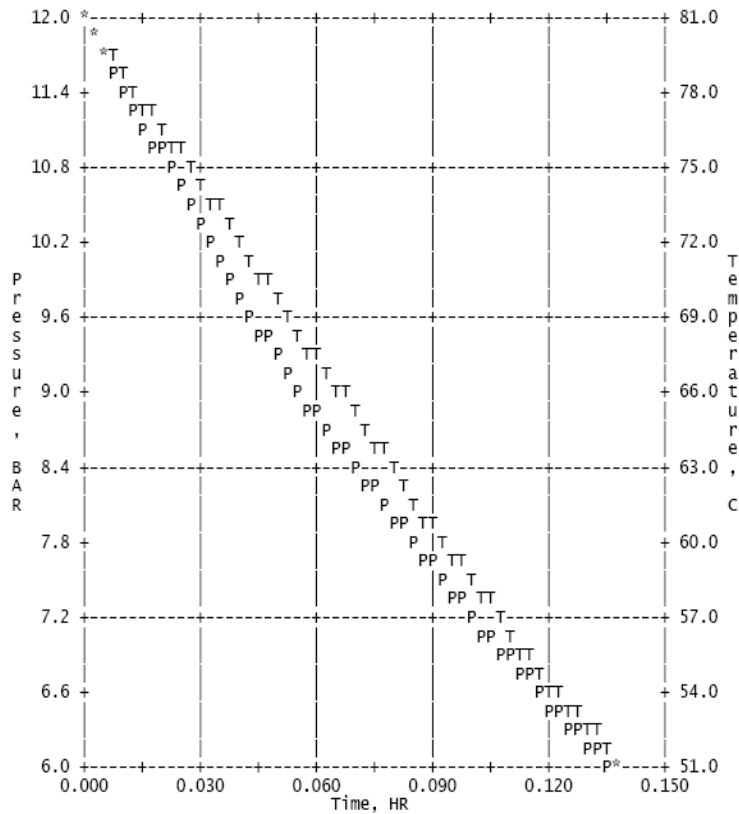
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	12.000	81.2	41346.650	1341.584
1.3E-02	11.197	78.0	39910.828	1343.351
2.7E-02	10.447	74.9	37144.984	1346.736
4.1E-02	9.726	71.7	34546.954	1349.591
5.5E-02	9.034	68.4	32069.797	1351.986
7.0E-02	8.369	65.1	29707.560	1353.932
8.5E-02	7.735	61.8	27460.107	1355.432
0.101	7.129	58.5	25325.154	1356.488
0.118	6.554	55.1	23302.781	1357.108
0.135	6.010	51.6	21394.247	1357.292
0.137	5.966	51.4	20393.432	1357.262
UNIT 40	SOLVED	- '107-BDV-0054-Fi re		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



Unit 107

UNIT 40, '107-BDV-0054-Fire', 'Summer' (cont)

Pressure and Temperature Profiles



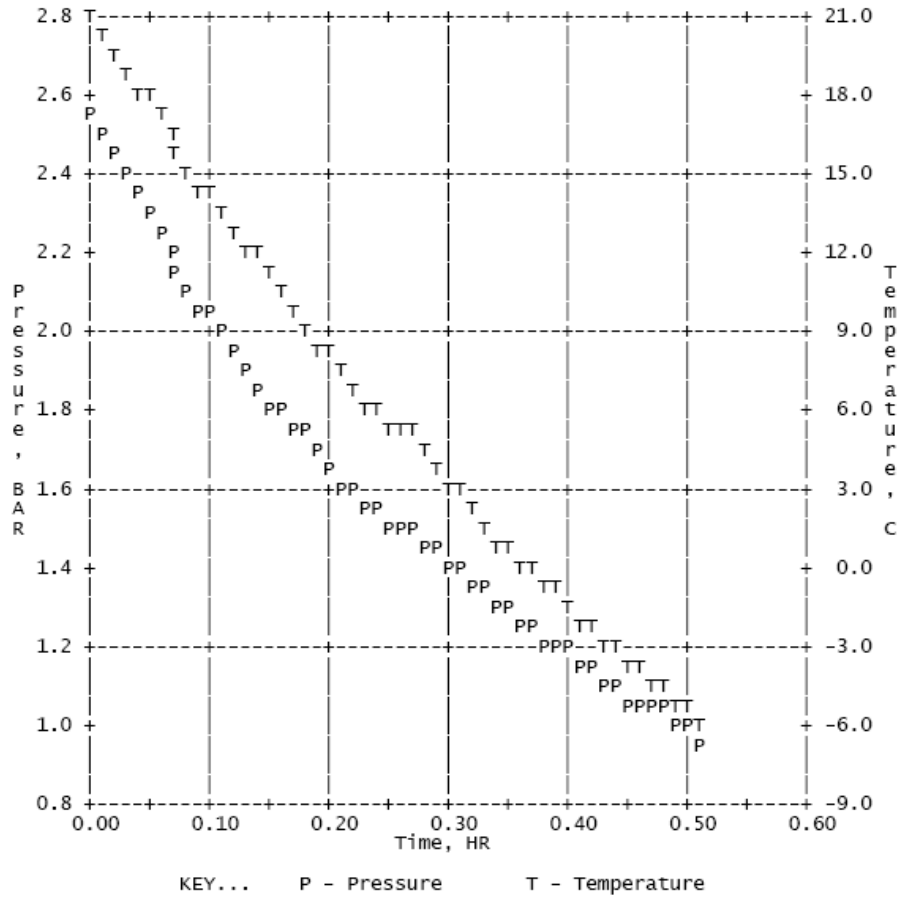
KEY... P - Pressure T - Temperature



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	2. 542	21. 0	8766. 778	1340. 332
1. 9E-02	2. 436	19. 7	8587. 701	1339. 650
3. 7E-02	2. 337	18. 4	8241. 872	1338. 260
5. 6E-02	2. 241	17. 1	7913. 331	1336. 852
7. 5E-02	2. 149	15. 8	7597. 481	1335. 412
9. 4E-02	2. 062	14. 6	7297. 103	1333. 956
0. 113	1. 979	13. 3	7009. 924	1332. 481
0. 133	1. 899	12. 1	6733. 952	1330. 979
0. 153	1. 824	10. 9	6471. 507	1329. 468
0. 173	1. 751	9. 7	6221. 231	1327. 946
0. 193	1. 682	8. 6	5980. 917	1326. 406
0. 214	1. 616	7. 4	5752. 239	1324. 861
0. 235	1. 553	6. 3	5534. 013	1323. 310
0. 256	1. 492	5. 2	5324. 877	1321. 747
0. 277	1. 436	4. 1	5127. 599	1320. 200
0. 298	1. 381	3. 0	4938. 617	1318. 646
0. 320	1. 329	2. 0	4755. 655	1317. 070
0. 341	1. 278	9. 5E-01	4580. 860	1315. 493
0. 363	1. 231	-6. 7E-02	4414. 347	1313. 922
0. 386	1. 185	-1. 1	4255. 761	1312. 357
0. 408	1. 143	-2. 0	4105. 509	1310. 810
0. 430	1. 101	-3. 0	3962. 188	1309. 271
0. 453	1. 062	-3. 9	3824. 002	1307. 724
0. 476	1. 025	-4. 9	3693. 143	1306. 199
0. 487	1. 007	-5. 3	3598. 216	1305. 049
0. 510	0. 972	-6. 2	3506. 803	1303. 917
UNI T 41	SOLVED	- ' 107-BDV-0054-C '		

UNIT 41, '107-BDV-0054-C', 'Summer' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

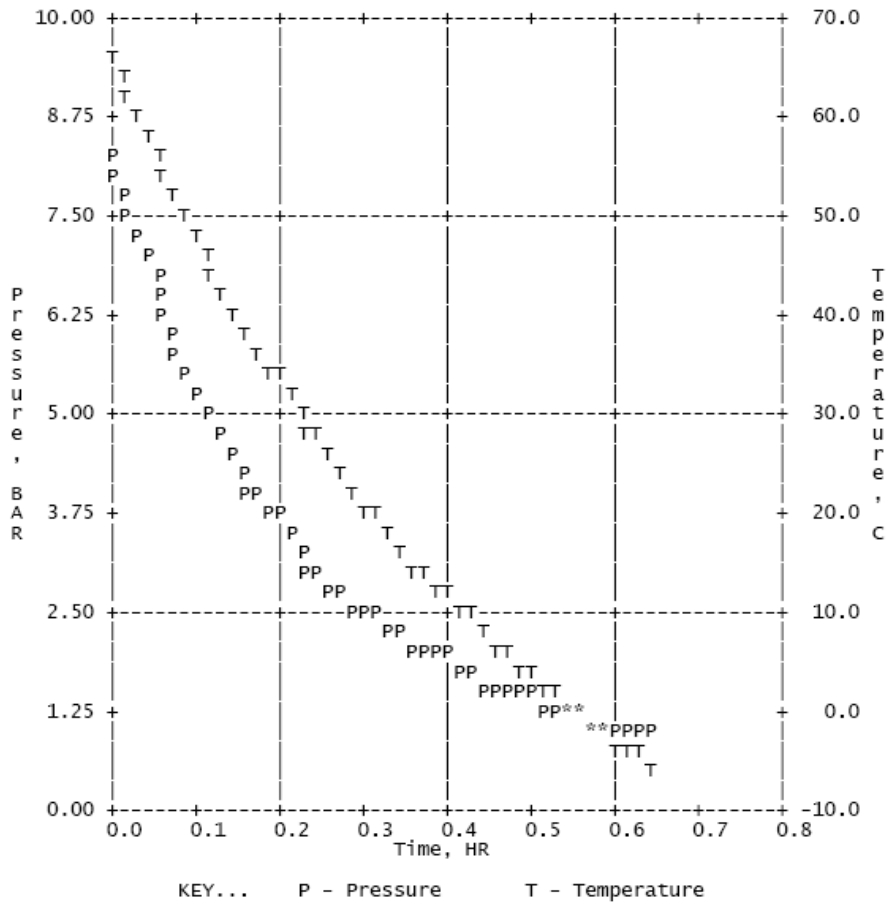
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	8. 275	65. 2	28226. 556	1355. 149
1. 8E-02	7. 592	61. 6	27049. 168	1355. 773
3. 7E-02	6. 974	58. 1	24812. 153	1356. 820
5. 6E-02	6. 399	54. 6	22771. 105	1357. 358
7. 6E-02	5. 859	51. 1	20871. 671	1357. 441
9. 6E-02	5. 358	47. 7	19104. 062	1357. 095
0. 117	4. 895	44. 3	17471. 919	1356. 346
0. 139	4. 468	41. 0	15968. 823	1355. 221
0. 161	4. 080	37. 7	14593. 496	1353. 760
0. 184	3. 728	34. 5	13347. 470	1352. 011
0. 207	3. 408	31. 4	12218. 164	1350. 010
0. 231	3. 119	28. 5	11192. 651	1347. 787
0. 255	2. 854	25. 5	10259. 982	1345. 368
0. 280	2. 615	22. 7	9413. 631	1342. 785
0. 305	2. 400	20. 0	8650. 058	1340. 082
0. 330	2. 208	17. 4	7964. 148	1337. 297
0. 356	2. 034	14. 9	7347. 440	1334. 457
0. 383	1. 875	12. 5	6786. 201	1331. 548
0. 409	1. 731	10. 2	6274. 250	1328. 581
0. 436	1. 601	7. 9	5809. 607	1325. 586
0. 463	1. 483	5. 8	5388. 275	1322. 584
0. 491	1. 375	3. 7	5005. 511	1319. 582
0. 518	1. 278	1. 7	4657. 649	1316. 594
0. 546	1. 190	-2. 1E-01	4342. 802	1313. 643
0. 575	1. 110	-2. 1	4055. 674	1310. 721
0. 603	1. 036	-3. 8	3791. 704	1307. 812
0. 618	1. 001	-4. 7	3606. 741	1305. 615
0. 647	0. 936	-6. 4	3436. 183	1303. 502
UNI T    42	SOLVED	-	' 107-BDV-0054-S '	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 42, '107-BDV-0054-s', 'Summer' (cont)  
Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		
			<b>Rev. : 3    Class: 2</b>

Wetted area calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
ESDV-0031/32	110-E-101	S45	MIXED	209829	727.5	21766.5	14.59	0.0000	0.0000	0.0000	0.0000
110-E-101	110-D-101	122	MIXED	196382	706.466	35214	13.6	23.939	0.0000	6.2	6.2
ESDV-0034	110-D-101	122	MIXED	196382	706.466	35214	13.6	3.5	0.0000	0.91	0.91
ESDV-0035	110-D-101	122	MIXED	196382	706.466	35214	13.6	6.37	0.0000	1.586	1.586
110-D-101	SDV-0039	S77	WATER	14002.2	988.007	0	0	3.872	0.0000	3.872	3.872
110-D-101	SDV-0041	123	LIQUID	182379	691.341	0	0	7.621	0.0000	7.621	7.621
	110-E-101A	122	MIXED	196382	706.466	35214	13.6				
	110-E-101B	122	MIXED	196382	706.466	35214	13.6				
	110-D-101	123, 131	LIQ+VAP		691.341		13.6				92.85
	<b>TOTAL</b>	<b>QUANTITY</b>						45.2968	0.0000	20	113

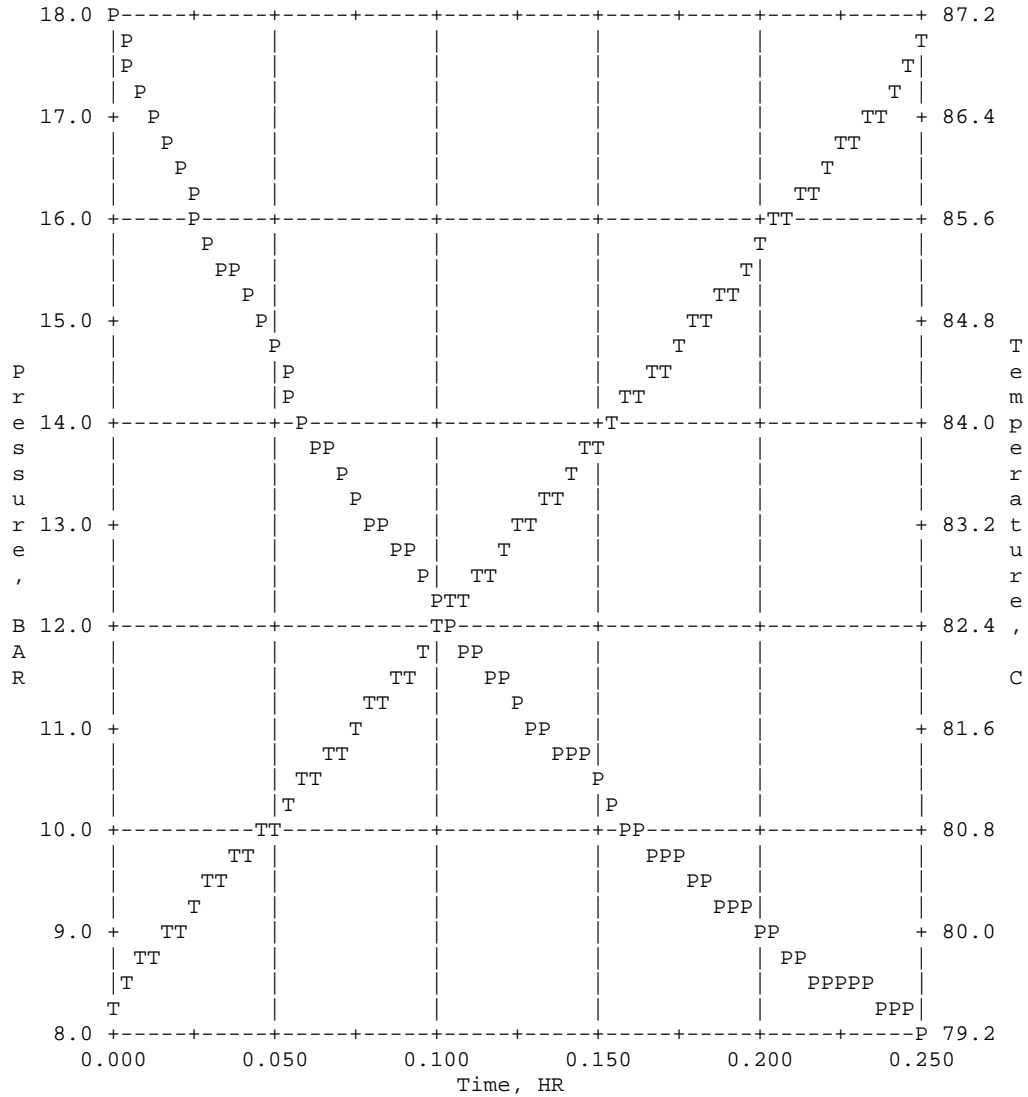
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Fire case



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	18.000	79.5	15193.961	862.125
1.0E-02	17.244	79.8	14914.506	859.825
2.0E-02	16.534	80.0	14372.588	855.129
3.0E-02	15.868	80.3	13863.701	850.407
4.0E-02	15.242	80.6	13385.584	845.669
5.0E-02	14.655	80.9	12936.144	840.925
6.0E-02	14.102	81.2	12513.447	836.183
7.0E-02	13.586	81.5	12117.310	831.444
8.0E-02	13.098	81.8	11744.360	826.724
9.0E-02	12.638	82.0	11391.459	822.039
1.0E-01	12.205	82.3	11058.899	817.387
0.110	11.797	82.6	10745.356	812.775
0.120	11.413	82.9	10449.603	808.208
0.130	11.051	83.2	10170.501	803.693
0.140	10.710	83.5	9906.991	799.234
0.150	10.388	83.8	9658.092	794.836
0.160	10.084	84.1	9422.889	790.503
0.170	9.797	84.4	9200.535	786.240
0.180	9.526	84.7	8990.239	782.048
0.190	9.270	85.0	8791.269	777.933
0.200	9.028	85.3	8602.939	773.895
0.210	8.799	85.7	8424.614	769.937
0.220	8.582	86.0	8255.701	766.062
0.230	8.378	86.3	8095.645	762.271
0.240	8.184	86.6	7943.933	758.565
0.250	8.000	86.9	7800.076	754.945

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Cold depressurization

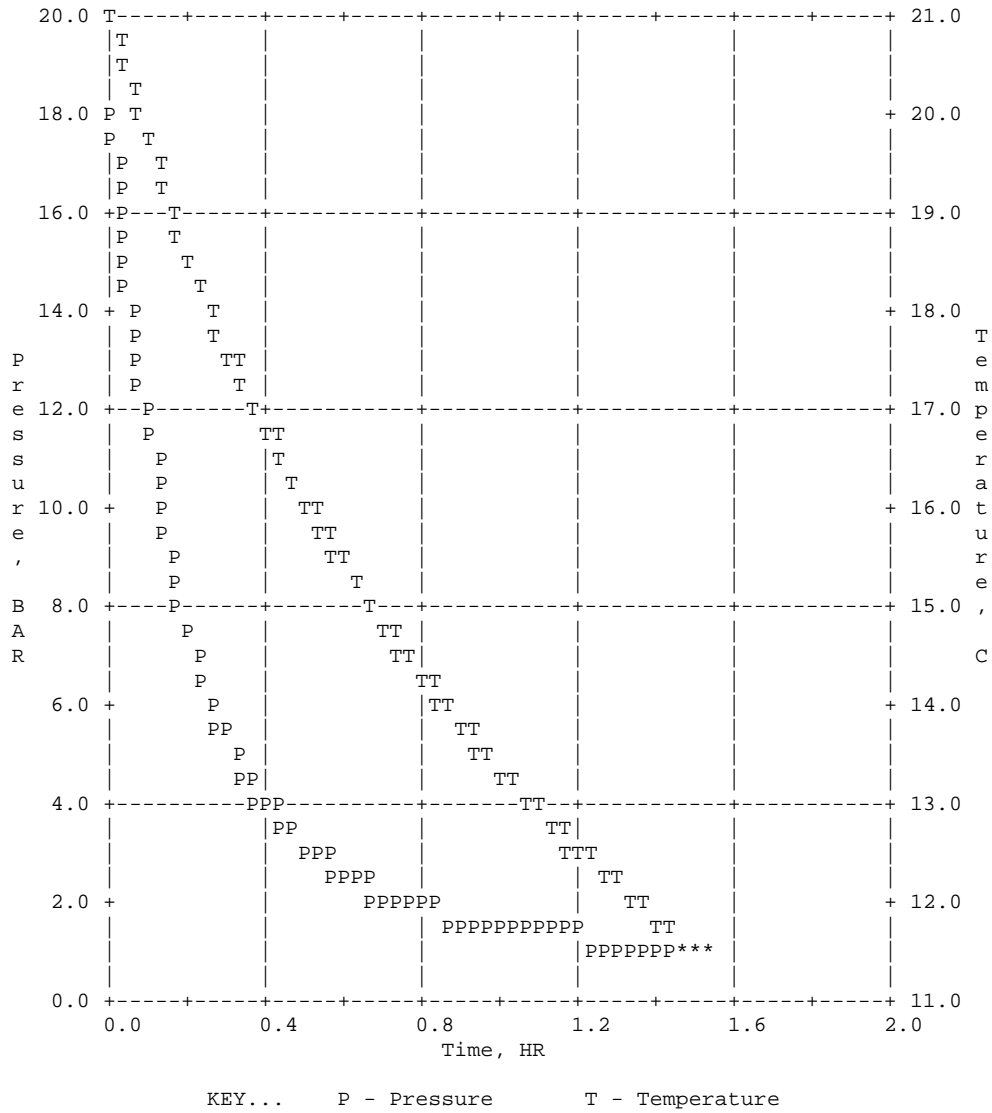
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	18.000	21.0	14844.764	882.261
2.0E-02	16.337	20.7	14199.835	879.733
4.0E-02	14.860	20.4	12982.219	874.253
6.0E-02	13.551	20.2	11902.451	868.403
8.0E-02	12.381	19.9	10941.412	862.239
1.0E-01	11.337	19.7	10082.555	855.812
0.120	10.407	19.5	9315.664	849.169
0.140	9.575	19.2	8629.694	842.355
0.160	8.830	19.0	8015.011	835.415
0.180	8.163	18.8	7463.204	828.389
0.200	7.565	18.6	6966.933	821.317
0.220	7.027	18.4	6519.776	814.233
0.240	6.543	18.2	6116.110	807.170
0.260	6.106	18.0	5751.008	800.158
0.280	5.712	17.8	5420.152	793.223
0.300	5.355	17.6	5119.751	786.389
0.320	5.032	17.4	4846.475	779.677
0.340	4.738	17.3	4597.394	773.103
0.360	4.471	17.1	4369.926	766.682
0.380	4.228	16.9	4161.797	760.428
0.400	4.006	16.8	3970.997	754.348
0.420	3.803	16.6	3795.752	748.452
0.440	3.617	16.5	3634.489	742.744
0.460	3.447	16.3	3485.816	737.228
0.480	3.290	16.2	3348.497	731.905
0.500	3.146	16.1	3221.433	726.777
0.520	3.012	15.9	3103.645	721.842
0.540	2.890	15.8	2994.263	717.099
0.560	2.776	15.7	2892.509	712.544
0.580	2.670	15.5	2797.687	708.175
0.600	2.572	15.4	2709.175	703.986
0.620	2.481	15.3	2626.416	699.972
0.640	2.396	15.2	2548.910	696.130
0.660	2.317	15.1	2476.204	692.452
0.680	2.243	14.9	2407.895	688.934
0.700	2.174	14.8	2343.618	685.568
0.720	2.109	14.7	2283.043	682.350
0.740	2.047	14.6	2225.872	679.272
0.760	1.990	14.5	2171.836	676.330
0.780	1.936	14.4	2120.691	673.516
0.800	1.885	14.3	2072.214	670.826
0.820	1.837	14.2	2026.205	668.252
0.840	1.791	14.1	1982.481	665.790
0.860	1.748	14.0	1940.875	663.433

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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0.880	1.707	13.9	1901.235	661.177
0.900	1.668	13.8	1863.422	659.017
0.920	1.631	13.7	1827.309	656.947
0.940	1.596	13.6	1792.782	654.963
0.960	1.563	13.5	1759.732	653.059
0.980	1.531	13.4	1728.063	651.233
1.000	1.500	13.4	1697.686	649.479
1.020	1.471	13.3	1668.518	647.793
1.040	1.443	13.2	1640.484	646.172
1.060	1.416	13.1	1613.513	644.613
1.080	1.390	13.0	1587.543	643.111
1.100	1.366	12.9	1562.514	641.664
1.120	1.342	12.9	1538.370	640.268
1.140	1.319	12.8	1515.062	638.921
1.160	1.297	12.7	1492.543	637.619
1.180	1.276	12.6	1470.769	636.361
1.200	1.255	12.5	1449.701	635.144
1.220	1.235	12.5	1429.300	633.965
1.240	1.216	12.4	1409.532	632.823
1.260	1.198	12.3	1390.365	631.715
1.280	1.180	12.2	1371.769	630.639
1.300	1.163	12.2	1353.716	629.594
1.320	1.146	12.1	1336.180	628.578
1.340	1.130	12.0	1319.136	627.589
1.360	1.114	12.0	1302.561	626.626
1.380	1.099	11.9	1286.435	625.687
1.400	1.084	11.8	1270.737	624.771
1.420	1.069	11.8	1255.449	623.878
1.440	1.055	11.7	1240.552	623.005
1.460	1.041	11.6	1226.031	622.151
1.470	1.035	11.6	1215.333	621.518
1.490	1.022	11.5	1204.899	620.903
1.510	1.009	11.5	1191.252	620.094
1.530	0.996	11.4	1177.930	619.302

Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Spurious depressurization

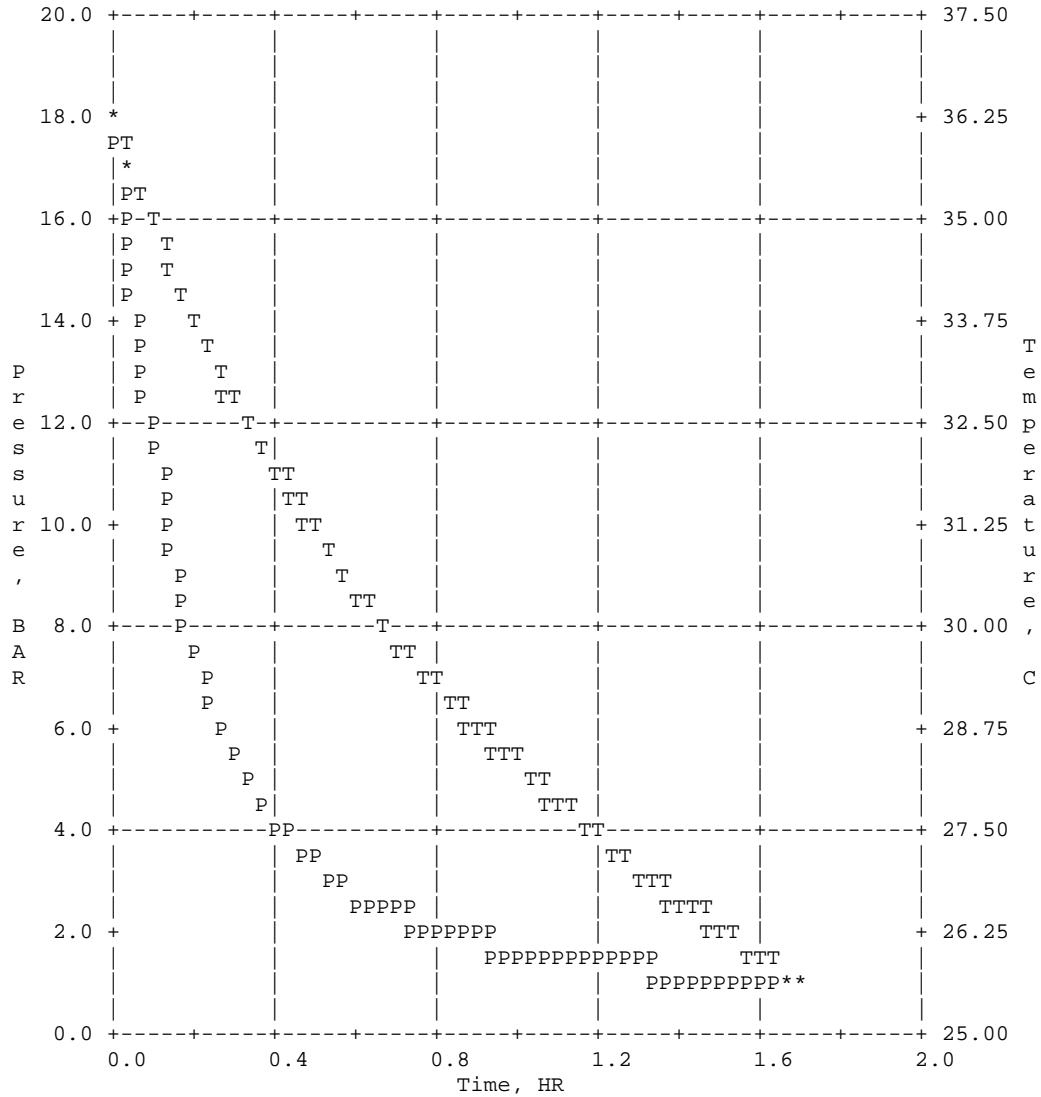
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	18.000	36.3	14875.081	880.463
2.0E-02	16.336	36.0	14237.614	877.365
4.0E-02	14.863	35.7	13035.236	870.730
6.0E-02	13.561	35.4	11970.999	863.792
8.0E-02	12.400	35.2	11025.368	856.616
1.0E-01	11.368	34.9	10181.512	849.261
0.120	10.449	34.7	9428.768	841.771
0.140	9.629	34.4	8755.917	834.194
0.160	8.896	34.2	8153.229	826.574
0.180	8.240	34.0	7612.258	818.952
0.200	7.652	33.7	7125.658	811.362
0.220	7.123	33.5	6687.038	803.839
0.240	6.648	33.3	6290.826	796.411
0.260	6.219	33.1	5932.162	789.103
0.280	5.832	32.9	5606.799	781.937
0.300	5.481	32.7	5311.022	774.932
0.320	5.163	32.6	5041.574	768.101
0.340	4.874	32.4	4795.601	761.458
0.360	4.611	32.2	4570.593	755.011
0.380	4.371	32.1	4364.343	748.769
0.400	4.152	31.9	4174.903	742.735
0.420	3.951	31.7	4000.557	736.912
0.440	3.767	31.6	3839.788	731.301
0.460	3.598	31.4	3691.249	725.902
0.480	3.442	31.3	3553.749	720.713
0.500	3.298	31.1	3426.230	715.730
0.520	3.166	31.0	3307.749	710.950
0.540	3.043	30.8	3197.466	706.368
0.560	2.929	30.7	3094.633	701.979
0.580	2.823	30.6	2998.580	697.777
0.600	2.724	30.5	2908.706	693.755
0.620	2.632	30.3	2824.476	689.908
0.640	2.546	30.2	2745.406	686.229
0.660	2.466	30.1	2671.061	682.711
0.680	2.391	30.0	2601.051	679.347
0.700	2.320	29.8	2535.024	676.130
0.720	2.254	29.7	2472.660	673.054
0.740	2.192	29.6	2413.672	670.113
0.760	2.133	29.5	2357.797	667.299
0.780	2.077	29.4	2304.801	664.607
0.800	2.025	29.3	2254.467	662.031
0.820	1.975	29.2	2206.599	659.564
0.840	1.928	29.1	2161.021	657.202
0.860	1.884	29.0	2117.569	654.938

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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0.880	1.841	28.9	2076.095	652.768
0.900	1.801	28.8	2036.463	650.686
0.920	1.763	28.7	1998.551	648.688
0.940	1.726	28.6	1962.243	646.770
0.960	1.691	28.5	1927.437	644.926
0.980	1.657	28.4	1894.035	643.153
1.000	1.625	28.3	1861.951	641.447
1.020	1.595	28.2	1831.103	639.804
1.040	1.565	28.1	1801.416	638.221
1.060	1.537	28.0	1772.822	636.695
1.080	1.510	27.9	1745.257	635.222
1.100	1.484	27.8	1718.663	633.799
1.120	1.459	27.8	1692.984	632.424
1.140	1.435	27.7	1668.170	631.095
1.160	1.412	27.6	1644.175	629.807
1.180	1.389	27.5	1620.956	628.561
1.200	1.367	27.4	1598.471	627.352
1.220	1.346	27.3	1576.684	626.179
1.240	1.326	27.3	1555.559	625.041
1.260	1.307	27.2	1535.064	623.935
1.280	1.288	27.1	1515.168	622.860
1.300	1.269	27.0	1495.843	621.814
1.320	1.251	26.9	1477.062	620.795
1.340	1.234	26.9	1458.801	619.802
1.360	1.217	26.8	1441.037	618.835
1.380	1.201	26.7	1423.746	617.891
1.400	1.185	26.6	1406.909	616.969
1.420	1.170	26.6	1390.507	616.069
1.440	1.155	26.5	1374.521	615.189
1.460	1.140	26.4	1358.935	614.328
1.480	1.126	26.4	1343.732	613.486
1.500	1.112	26.3	1328.896	612.662
1.520	1.099	26.2	1314.415	611.854
1.540	1.085	26.1	1300.274	611.063
1.560	1.073	26.1	1286.460	610.287
1.580	1.060	26.0	1272.962	609.526
1.600	1.048	25.9	1259.767	608.778
1.610	1.042	25.9	1250.028	608.223
1.630	1.030	25.8	1240.503	607.681
1.650	1.019	25.8	1228.022	606.966
1.670	1.007	25.7	1215.809	606.264
1.690	0.996	25.7	1203.855	605.574

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>



### 5.9.2 BDV 0069

#### Volume Calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0041	110-E-102	S81	MIXED	182237.5	691.87	141.88	13.249	0.961	0.039	3841	3
110-E-102	110-E-103	124	MIXED	181499	681.783	881	13.6	0.8045	0.1955	2971	14
110-E-103	110-D-102	126	MIXED	129287	663.652	70700	8.66	0.0233	0.9767	213	116
ESDV-0058	110-D-102	31	LIQUID	17608	622.296	0	0	1.0000	0.0000	290	0
110-D-102	SDV-0069	128	LIQUID	129283	663.651	0	0	1.0000	0.0000	25	0
110-D-102	SDV-0071	128	LIQUID	129283	663.651	0	0	1.0000	0.0000	178	0
110-E-102 tube side	124	MIXED	181499	681.783	881	13.6	0.8045	0.1955	335	2	
110-E-103 shell side	S83	MIXED	152395.781	605.644	29983.557	22.7	0.1601	0.8399	242	48	
110-D-102	127, 128	LIQ+VAP		663.651		8.66			28935	411	
<b>TOTAL QUANTITY</b>										37030	594

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0041	110-E-102	12	12.750	D03S	323.85	40	10.3124	303.23	11.938	20	60	5.552	0.225	5.777
110-E-102	110-E-103	12	12.750	D03S	323.85	40	10.3124	303.23	11.938	20	55	4.36	1.059	5.416
110-E-103	110-D-102	18	18.000	B03S	457.20	20	7.9248	441.35	17.376	20	70	0.321	13.448	13.769
ESDV-0058	110-D-102	6	6.625	B03S	168.28	40	7.112	154.05	6.065	0	25	0.466	0.000	0.466
110-D-102	SDV-0069	3	3.500	D01	88.90	40	5.4864	77.927	3.068	0	8	0.038	0.000	0.038
110-D-102	SDV-0071	8	8.625	B01	219.08	20	6.35	206.38	8.125	0	8	0.268	0.000	0.268
110-E-102 tube side												0.49	0.119	0.61
110-E-103 shell side												0.40	2.100	2.5
110-D-102												43.6	47.5	91.1
<b>TOTAL</b>												55.49	64.451	119.944



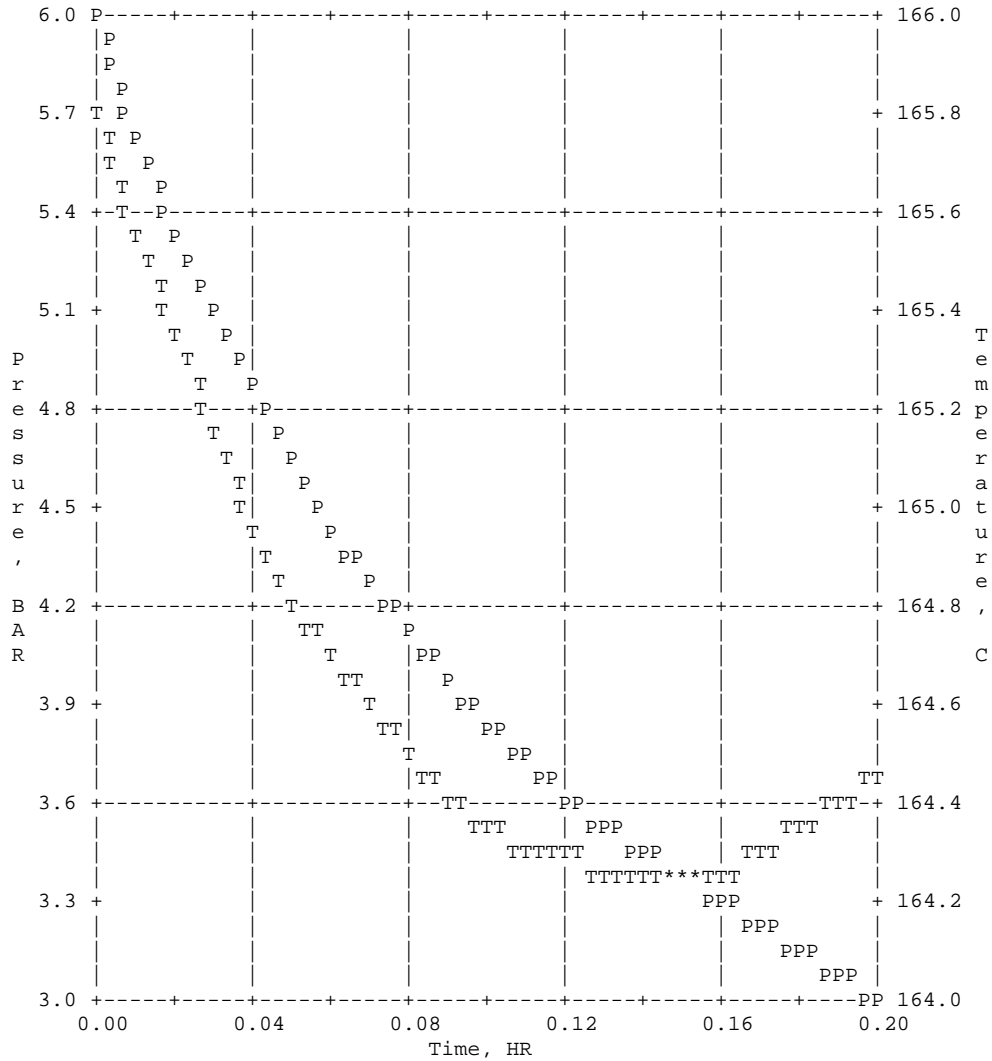
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	6.000	165.8	34072.339	2581.922
1.0E-02	5.652	165.6	33264.071	2568.017
2.0E-02	5.349	165.3	31739.685	2541.027
3.0E-02	5.083	165.1	30386.732	2516.823
4.0E-02	4.847	165.0	29177.900	2495.048
5.0E-02	4.638	164.8	28091.198	2475.391
6.0E-02	4.450	164.7	27108.771	2457.581
7.0E-02	4.281	164.6	26216.009	2441.385
8.0E-02	4.127	164.5	25400.866	2426.600
9.0E-02	3.988	164.4	24653.345	2413.050
1.0E-01	3.860	164.4	23965.088	2400.586
0.110	3.743	164.3	23329.067	2389.078
0.120	3.635	164.3	22739.336	2378.411
0.130	3.535	164.3	22190.832	2368.490
0.140	3.442	164.3	21679.223	2359.229
0.150	3.356	164.3	21200.781	2350.557
0.160	3.275	164.3	20752.283	2342.409
0.170	3.200	164.3	20330.927	2334.730
0.180	3.129	164.3	19934.265	2327.473
0.190	3.063	164.4	19560.152	2320.595
0.200	3.000	164.4	19206.686	2314.060

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

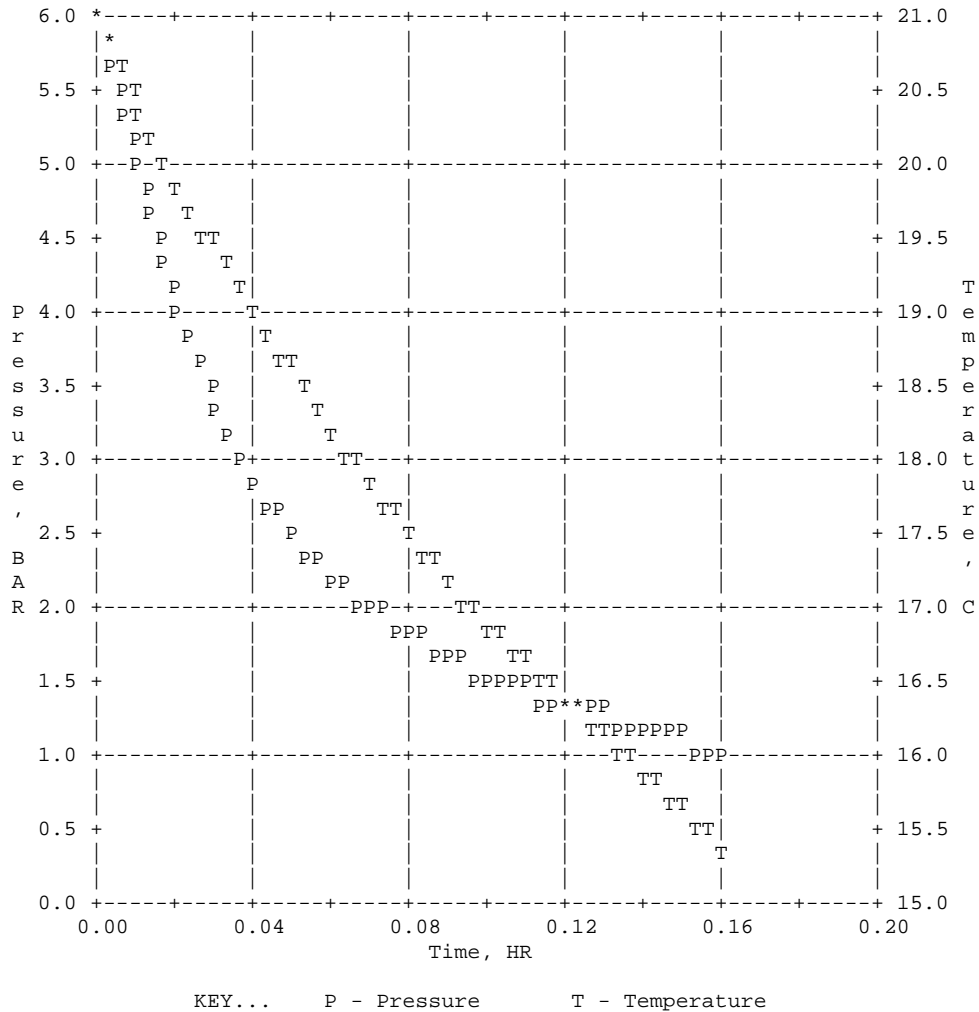
Cold depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	---- M3/HR
0.000	6.000	21.0	23726.355	3707.584
2.0E-02	4.040	19.9	20262.995	3632.364
4.0E-02	2.910	18.9	14738.038	3457.297
6.0E-02	2.220	18.2	11390.961	3301.877
8.0E-02	1.776	17.5	9239.570	3170.745
1.0E-01	1.476	16.9	7781.757	3063.387
0.120	1.264	16.3	6746.821	2976.829
0.140	1.108	15.8	5981.424	2907.356
0.160	0.990	15.4	5394.768	2851.407



Pressure and Temperature Profiles



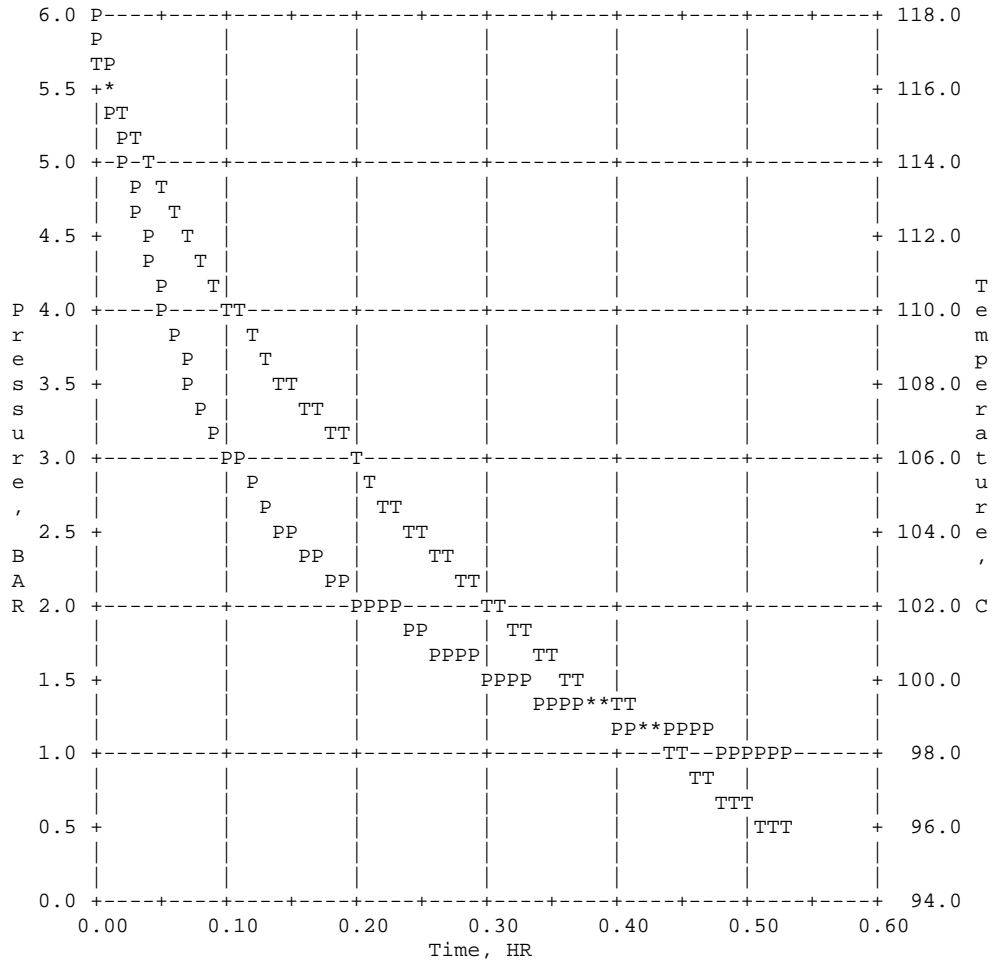
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	6.000	116.6	30717.880	2863.721
2.0E-02	5.035	115.1	28633.209	2825.258
4.0E-02	4.329	113.7	24966.221	2749.577
6.0E-02	3.794	112.5	22157.238	2687.542
8.0E-02	3.378	111.4	19942.177	2636.393
1.0E-01	3.045	110.3	18151.574	2593.858
0.120	2.773	109.3	16673.033	2558.124
0.140	2.547	108.3	15429.791	2527.770
0.160	2.356	107.4	14368.026	2501.693
0.180	2.192	106.6	13449.088	2479.036
0.200	2.050	105.8	12644.615	2459.138
0.220	1.925	105.0	11933.375	2441.486
0.240	1.814	104.2	11299.179	2425.678
0.260	1.715	103.5	10729.475	2411.401
0.280	1.627	102.8	10214.381	2398.405
0.300	1.546	102.1	9746.005	2386.494
0.320	1.473	101.5	9317.961	2375.510
0.340	1.407	100.9	8925.023	2365.322
0.360	1.345	100.3	8562.867	2355.827
0.380	1.289	99.7	8227.880	2346.937
0.400	1.237	99.1	7917.013	2338.581
0.420	1.188	98.5	7627.679	2330.699
0.440	1.143	98.0	7357.658	2323.240
0.460	1.101	97.5	7105.038	2316.161
0.480	1.062	97.0	6868.160	2309.423
0.500	1.026	96.5	6645.577	2302.996
0.510	1.008	96.2	6485.827	2298.280
0.530	0.974	95.7	6335.238	2293.833

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company Rev. : 3 Class: 2
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



## 5.10 UNIT 111

### 5.10.1 BDV 0003

#### Volume Calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT	
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)	
SDV-0002	111-D-101	147A	vapor	0	0.000	75411	8.603	0.000	1.000	0	53	
ANTI SURGE			149	vapor	0	0.000	205710	48.365	0.000	1.000	0	89
DESUPERHEATING			141	liquid	205710	429.478	0	0.000	1.000	0.000	160	0
111-D-101	111-P-101	141	liquid	205710	429.478	0	0.000	1.000	0.000	12	0	
111-D-101	1st 111-K-101	147	vapor	0	0.000	75411	8.603	0.000	1.000	0	67	
111-D-101			141,147	liq.+vap.	429.478	0	8.603	0	0	2608	97	
TOTAL			QUANTITY							2780	306	

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0002	111-D-101	18	18.00	B21	457.2	10	6.35	444.5	17.500	10	30	0.000	6.207	6.207
ANTI SURGE		14	14.00	B21	355.6	40	6.35	342.9	13.500	0	20	0.000	1.846	1.846
DESUPERHEATING		6	6.63	B21	168.3	40	7.11	154.08	6.066	0	20	0.373	0.000	0.373
111-D-101	111-P-101	2	2.37	B21	60.3	40	3.91	52.48	2.066	5	8	0.028	0.000	0.028
111-D-101	1st 111-K-101	18	18.00	B21	457.0	10	6.35	444.5	17.500	0	50	0.000	7.759	7.759
111-D-101												6.061	11.257	17.318
TOTAL												6.462	27.069	33.531

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Wetted area calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
SDV-0002	111-D-101	147A	vapor	0	0.000	75411	8.603	27.929	0.000	0.000	0.000
<b>ANTI SURGE</b>		<b>149</b>	<b>vapor</b>	<b>0</b>	<b>0.000</b>	<b>205710</b>	<b>48.365</b>	<b>21.545</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>DESUPERHEATING</b>		<b>141</b>	<b>liquid</b>	<b>205710</b>	<b>429.478</b>	<b>0</b>	<b>0.000</b>	<b>9.681</b>	<b>0.000</b>	<b>9.681</b>	<b>9.681</b>
111-D-101	111-P-101	141	liquid	205710	429.478	0	0.000	2.143	0.824	1.319	2.143
111-D-101	1st 111-K-101	147	vapor	0	0.000	75411	8.603	27.929	0.000	6.033	6.033
	111-D-101	141,147	liq.+vap.		429.478		8.603				13.85
	<b>TOTAL</b>	<b>QUANTITY</b>						<b>89.227</b>	<b>0.824</b>	<b>17.033</b>	<b>31.707</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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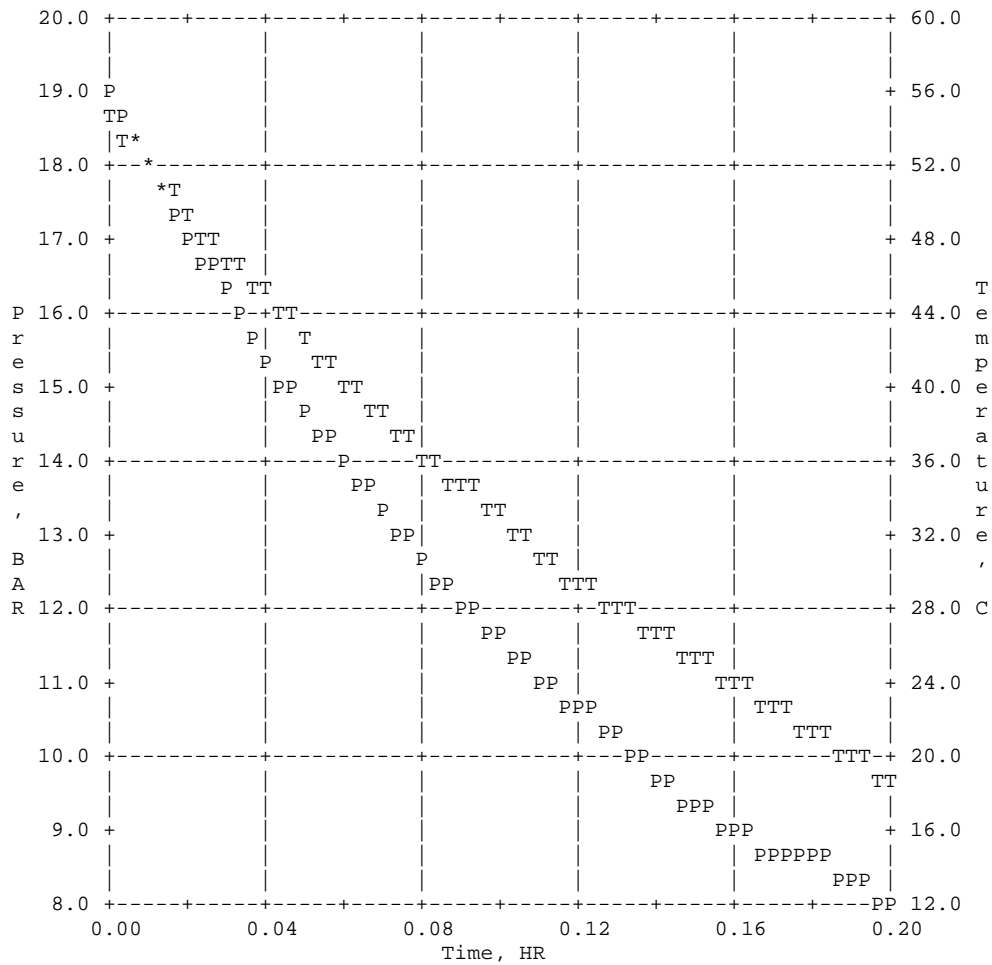
Fire case

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.5	23549.641	536.158
1.0E-02	18.025	52.0	22896.630	537.298
2.0E-02	17.107	49.6	21636.303	539.517
3.0E-02	16.243	47.3	20464.730	541.481
4.0E-02	15.434	45.0	19376.303	543.213
5.0E-02	14.676	42.8	18365.746	544.736
6.0E-02	13.966	40.7	17428.085	546.069
7.0E-02	13.305	38.6	16558.624	547.232
8.0E-02	12.687	36.6	15752.936	548.240
9.0E-02	12.113	34.7	15006.844	549.109
1.0E-01	11.579	32.8	14316.424	549.854
0.110	11.082	31.1	13677.957	550.489
0.120	10.622	29.4	13087.947	551.024
0.130	10.196	27.8	12543.137	551.471
0.140	9.801	26.2	12040.458	551.841
0.150	9.437	24.8	11577.034	552.142
0.160	9.100	23.4	11150.173	552.384
0.170	8.790	22.1	10757.356	552.574
0.180	8.504	20.9	10396.228	552.719
0.190	8.241	19.7	10064.588	552.827
0.200	8.000	18.7	9760.370	552.902

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

Cold depressurization

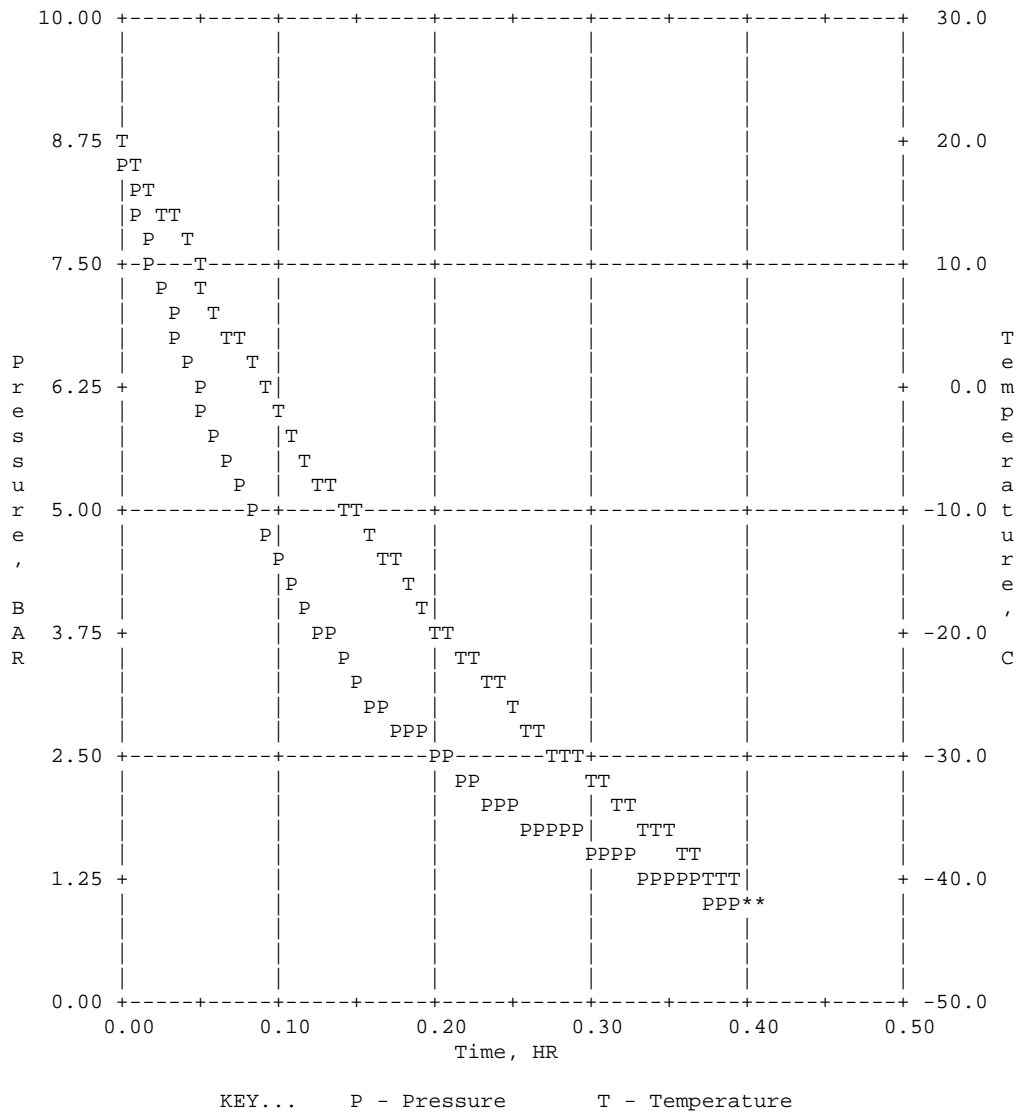
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.612	21.0	10352.531	552.823
2.0E-02	7.500	15.9	9682.395	552.937
4.0E-02	6.549	11.0	8442.014	552.969
6.0E-02	5.734	6.4	7385.865	552.587
8.0E-02	5.037	2.1	6485.074	551.876
1.0E-01	4.439	-2.0	5715.195	550.908
0.120	3.926	-5.9	5055.688	549.743
0.140	3.484	-9.5	4489.247	548.428
0.160	3.103	-12.9	4001.359	547.004
0.180	2.774	-16.1	3579.867	545.502
0.200	2.488	-19.2	3214.587	543.948
0.220	2.240	-22.0	2896.998	542.363
0.240	2.024	-24.8	2619.966	540.763
0.260	1.834	-27.3	2377.509	539.161
0.280	1.668	-29.7	2164.606	537.568
0.300	1.521	-32.0	1977.039	535.991
0.320	1.392	-34.2	1811.252	534.436
0.340	1.277	-36.3	1664.248	532.909
0.360	1.175	-38.2	1533.486	531.412
0.380	1.084	-40.1	1416.815	529.947
0.400	1.003	-41.8	1312.403	528.518
0.410	0.966	-42.7	1240.281	527.446



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

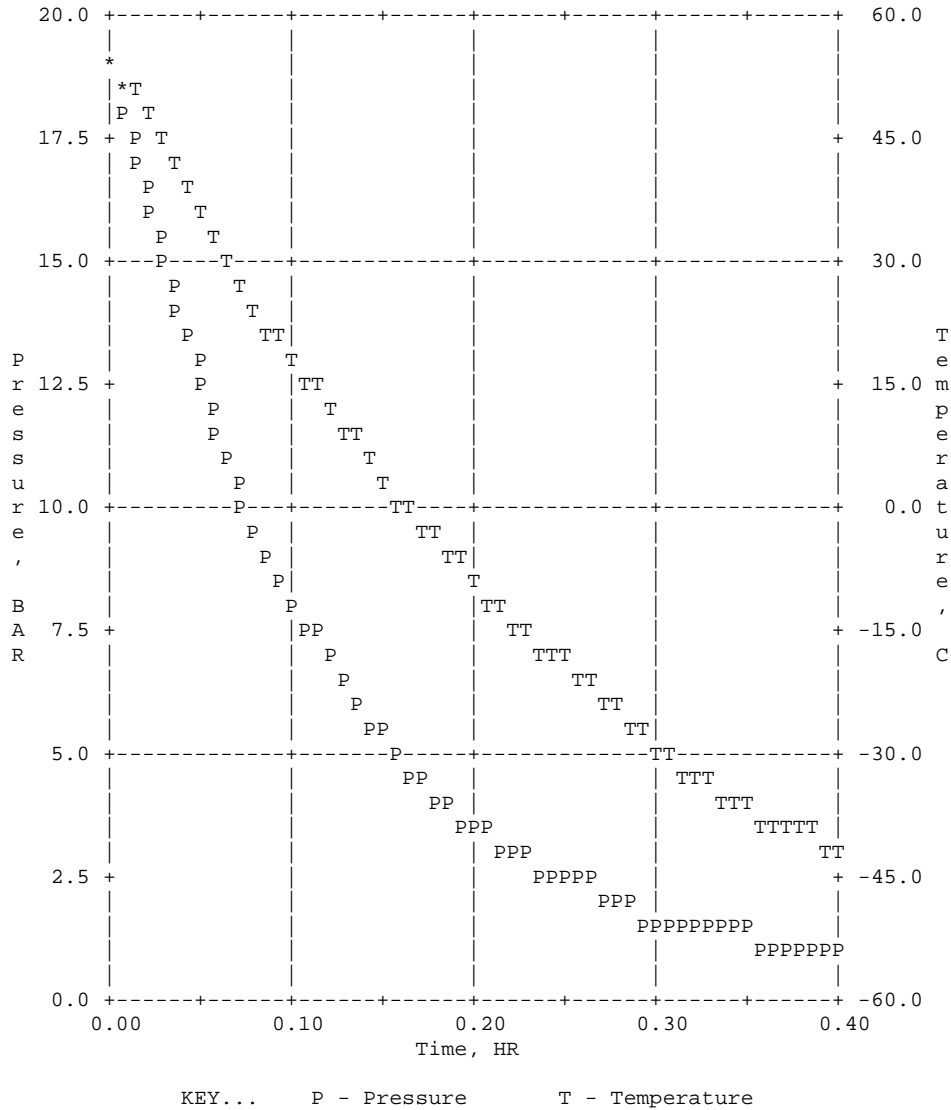
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.5	23549.765	536.161
2.0E-02	16.038	46.7	21592.256	539.195
4.0E-02	13.498	39.2	18008.930	544.962
6.0E-02	11.342	31.9	15037.566	548.868
8.0E-02	9.528	25.0	12578.622	551.304
1.0E-01	8.012	18.4	10547.257	552.579
0.120	6.750	12.2	8870.980	552.938
0.140	5.703	6.3	7488.126	552.584
0.160	4.835	8.3E-01	6346.781	551.681
0.180	4.115	-4.3	5403.583	550.363
0.200	3.519	-9.1	4622.595	548.738
0.220	3.023	-13.6	3974.260	546.893
0.240	2.609	-17.8	3434.385	544.897
0.260	2.264	-21.7	2983.228	542.805
0.280	1.974	-25.3	2604.750	540.659
0.300	1.730	-28.7	2285.929	538.493
0.320	1.524	-31.9	2016.201	536.332
0.340	1.349	-34.9	1786.995	534.194
0.360	1.199	-37.7	1591.346	532.093
0.380	1.071	-40.3	1423.587	530.039
0.400	0.961	-42.7	1279.097	528.039

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>  <b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>  <b>Doc. Number : DB-1516-999-P312-212</b>	  <b>Pars Oil and Gas Company</b>  <b>Rev. : 3 Class: 2</b>
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Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.10.2 BDV 0013

#### Volume Calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0012	111-D-102	148A	vapor	0	0.000	130299	17.321	0.000	1.000	0	167
111-D-101	111-D-102	149	vapor	0	0.000	205710	48.365	0.000	1.000	0	1
SDV-0011	111-D-102	141	liquid	205710	429.478	0	0.000	1.000	0.000	215	0
SDV-0011	111-D-101	141	liquid	205710	429.478	0	0.000	1.000	0.000	288	0
2nd stage 111-K-101	111-D-102	149	vapor	0	0.000	205710	48.365	0.000	1.000	0	32
111-K-101	FV-0007	149	vapor	0	0.000	205710	48.565	0.000	1.000	0	41
111-D-102	2nd stage 111-K-101	148	vapor	0	0.000	130299	17.321	0.000	1.000	0	117
2nd stage 111-K-101	2nd stage 111-K-101	149	vapor	0	0.000	205710	48.365	0.000	1.000	0	165
	111-D-102	141,148	liq.+vap.		429.478		17.321			3601	294
	111-D-101 tube side	149	vapor		0.000		48.365			0	2
	<b>TOTAL</b>	<b>QUANTITY</b>								<b>4105</b>	<b>818</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0012	111-D-102	20	20.00	B21	508.0	10	6.35	495.3	19.500	10	40	0.000	9.634	9.634
111-D-101	111-D-102	2	2.37	B21	60.3	40	3.91	52.48	2.066	0	10	0.000	0.022	0.022
SDV-0011	111-D-102	8	8.63	B21	219.1	20	6.35	206.4	8.125	0	15	0.502	0.000	0.502
SDV-0011	111-D-101	8	8.63	B21	219.1	20	6.35	206.4	8.125	0	20	0.669	0.000	0.669
2nd stage 111-K-101	111-D-102	6	6.63	D21	168.3	40	7.11	154.08	6.066	0	35	0.000	0.653	0.653
111-K-101	FV-0007	6	6.63	D21	168.3	40	7.11	154.08	6.066	0	45	0.000	0.839	0.839
111-D-102	2nd stage 111-K-101	20	20.00	B21	508.0	10	6.35	495.3	19.500	0	35	0.000	6.744	6.744
2nd stage 111-K-101	2nd stage 111-K-101	16	16.00	D21	406.4	40	12.70	381	15.000	0	30	0.000	3.420	3.420
	111-D-102											8.369	16.965	25.334
	111-D-101 tube side											0.000	0.043	0.043
	<b>TOTAL</b>											<b>9.539</b>	<b>38.319</b>	<b>47.859</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Wetted area calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
SDV-0012	111-D-102	148A	vapor	0	0.000	130299	17.321	77.802	0.000	0.000	0.000
111-D-101	111-D-102	149	vapor	0	0.000	205710	48.365	1.649	0.000	0.000	0.000
SDV-0011	111-D-102	141	liquid	205710	429.478	0	0.000	<b>9.720</b>	0.000	<b>9.720</b>	<b>9.720</b>
SDV-0011	111-D-101	141	liquid	205710	429.478	0	0.000	<b>12.960</b>	0.000	<b>12.960</b>	<b>12.960</b>
2nd stage 111-K-101	111-D-102	149	vapor	0	0.000	205710	48.365	14.522	0.000	0.000	0.000
111-K-101	FV-0007	149	vapor	0	0.000	205710	48.565	9.681	0.000	0.000	0.000
111-D-102	2nd stage 111-K-101	148	vapor	0	0.000	130299	17.321	46.681	0.000	0.000	0.000
2nd stage 111-K-101	2nd stage 111-K-101	149	vapor	0	0.000	205710	48.365	35.908	0.000	0.000	0.000
	111-D-102	141,148			429.478		17.321				<b>16.956</b>
	111-D-101 tube side	149			0.000		48.365				0.000
	<b>TOTAL</b>	<b>QUANTITY</b>						<b>208.923</b>	0.000	<b>22.680</b>	<b>39.636</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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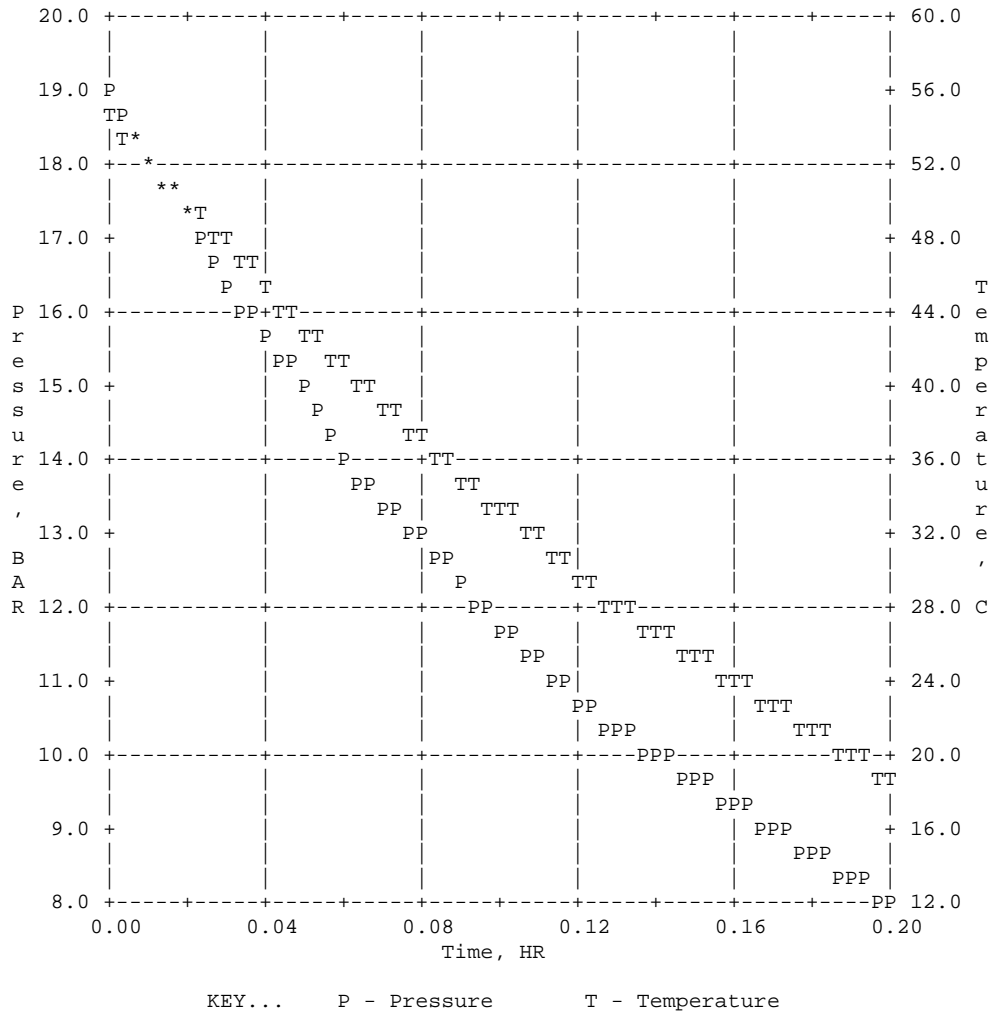
Fire case



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.4	30177.586	687.142
1.0E-02	18.072	52.0	29381.434	688.535
2.0E-02	17.194	49.7	27840.428	691.253
3.0E-02	16.364	47.5	26399.280	693.679
4.0E-02	15.581	45.3	25052.103	695.838
5.0E-02	14.843	43.2	23793.336	697.753
6.0E-02	14.148	41.1	22617.717	699.446
7.0E-02	13.495	39.1	21520.263	700.936
8.0E-02	12.882	37.1	20496.247	702.242
9.0E-02	12.306	35.2	19541.201	703.380
1.0E-01	11.768	33.4	18650.891	704.366
0.110	11.263	31.6	17821.310	705.214
0.120	10.792	29.8	17048.589	705.939
0.130	10.351	28.2	16329.222	706.551
0.140	9.940	26.6	15659.912	707.064
0.150	9.556	25.1	15037.406	707.486
0.160	9.199	23.6	14458.710	707.829
0.170	8.866	22.2	13921.013	708.102
0.180	8.556	20.9	13421.671	708.312
0.190	8.268	19.6	12958.205	708.467
0.200	8.000	18.4	12528.276	708.575

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

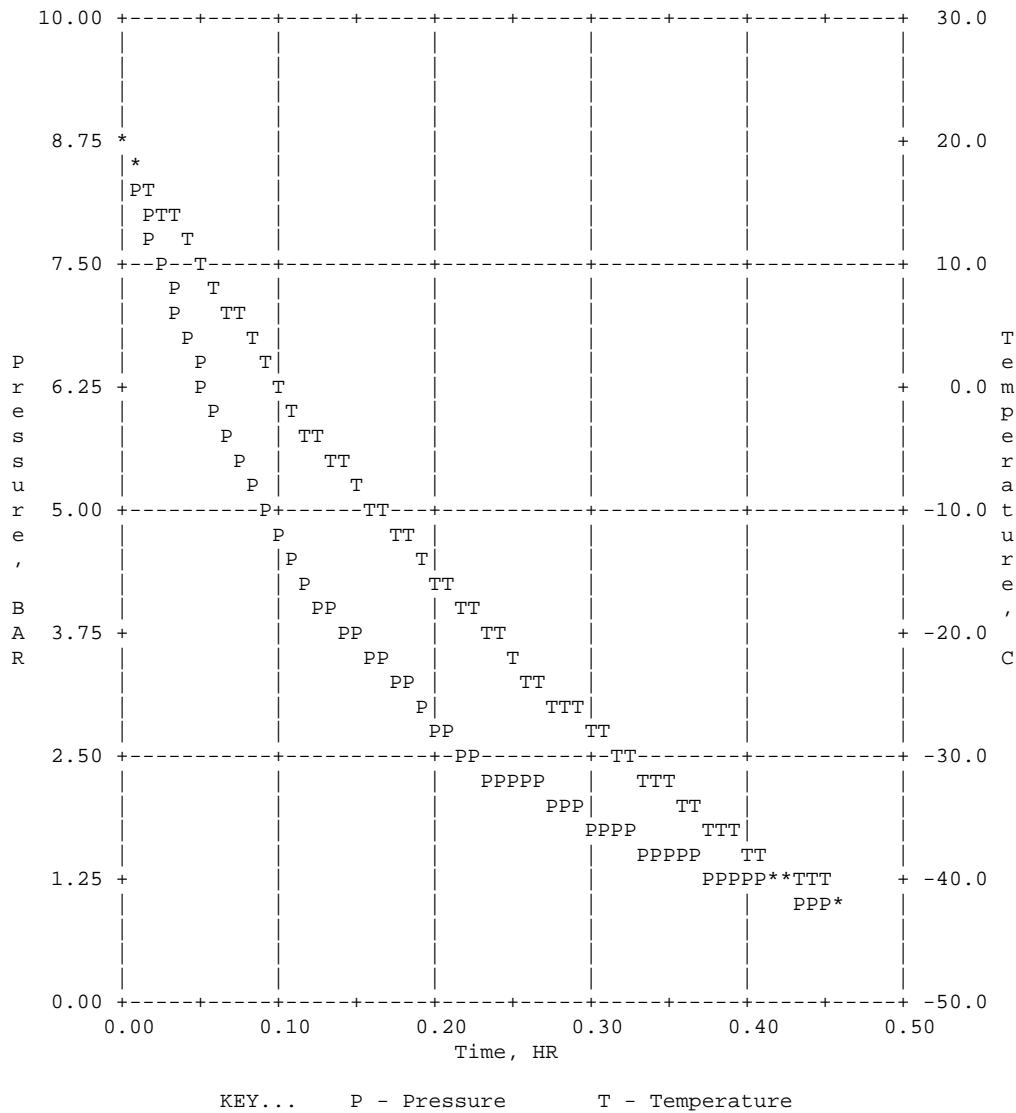
Cold depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.633	21.0	13298.625	708.497
2.0E-02	7.640	16.5	12531.179	708.647
4.0E-02	6.775	12.1	11098.645	708.744
6.0E-02	6.021	8.0	9856.590	708.410
8.0E-02	5.364	4.1	8778.266	707.725
1.0E-01	4.791	3.6E-01	7840.567	706.757
0.120	4.291	-3.2	7023.738	705.564
0.140	3.853	-6.5	6310.781	704.193
0.160	3.470	-9.7	5687.135	702.684
0.180	3.134	-12.7	5140.363	701.071
0.200	2.838	-15.6	4659.840	699.382
0.220	2.578	-18.3	4236.479	697.638
0.240	2.348	-20.9	3862.525	695.860
0.260	2.144	-23.3	3531.355	694.062
0.280	1.963	-25.6	3237.311	692.257
0.300	1.802	-27.8	2975.547	690.456
0.320	1.658	-30.0	2741.910	688.665
0.340	1.530	-32.0	2532.839	686.893
0.360	1.415	-33.9	2345.271	685.143
0.380	1.311	-35.7	2176.573	683.420
0.400	1.218	-37.4	2024.471	681.727
0.420	1.134	-39.1	1887.000	680.066
0.440	1.057	-40.7	1762.460	678.438
0.460	0.988	-42.2	1649.374	676.845



Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	

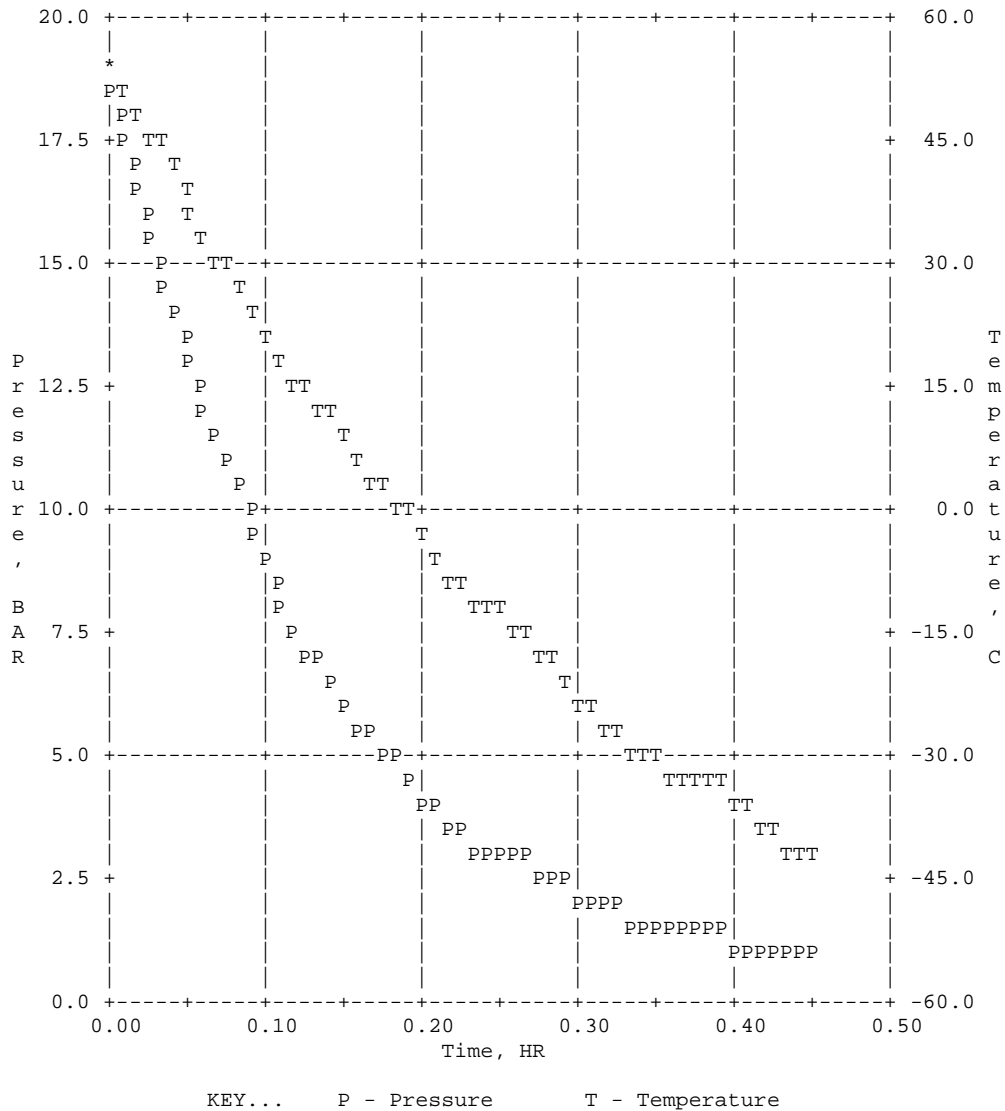
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.4	30177.782	687.147
2.0E-02	16.349	47.5	27927.759	690.703
4.0E-02	14.033	40.7	23770.326	697.488
6.0E-02	12.029	34.2	20250.563	702.324
8.0E-02	10.307	27.9	17275.347	705.583
1.0E-01	8.836	22.0	14763.974	707.561
0.120	7.583	16.3	12646.254	708.504
0.140	6.521	10.8	10861.340	708.613
0.160	5.620	5.7	9356.810	708.056
0.180	4.858	8.8E-01	8087.763	706.975
0.200	4.213	-3.7	7016.131	705.486
0.220	3.666	-8.0	6109.759	703.685
0.240	3.202	-12.0	5341.534	701.651
0.260	2.808	-15.8	4688.808	699.449
0.280	2.472	-19.4	4132.687	697.132
0.300	2.185	-22.7	3657.448	694.742
0.320	1.939	-25.9	3250.027	692.312
0.340	1.727	-28.9	2899.572	689.869
0.360	1.545	-31.7	2597.074	687.435
0.380	1.387	-34.3	2335.050	685.024
0.400	1.249	-36.8	2107.274	682.650
0.420	1.130	-39.1	1908.564	680.321
0.440	1.025	-41.3	1734.590	678.044
0.450	0.978	-42.4	1616.368	676.330

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

### 5.10.3 BDV 0043



#### Volume Calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
111-D-101	111-K-101	147	vapor	0	0.000	75411	8.603	0.000	1.000	0	53
111-D-102	111-K-101	148	vapor	0	0.000	130299	17.321	0.000	1.000	0	100
111-K-101	111-A-101	149	vapor	0	0.000	205710	48.365	0.000	1.000	0	220
	111-K-101 1st stage	147B	vapor		0.000		16.045			0	16
	111-K-101 2nd stage	149	vapor		0.000		48.365			0	48
	<b>TOTAL</b>	<b>QUANTITY</b>								<b>0</b>	<b>438</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
111-D-101	111-K-101	18	18.00	B21	457.2	10	6.35	444.5	17.500	0	40	0.000	6.207	6.207
111-D-102	111-K-101	20	20.00	B21	508.0	10	6.35	495.3	19.500	0	30	0.000	5.780	5.780
111-K-101	111-A-101	16	16.00	D21	406.4	40	12.70	381	15.000	0	40	0.000	4.558	4.558
	111-K-101 1st stage											0.000	1.000	1.000
	111-K-101 2nd stage											0.000	1.000	1.000
	<b>TOTAL</b>											<b>0.000</b>	<b>18.545</b>	<b>18.545</b>

#### Wetted Area Calculation

In the system there is no liquid phase and therefore no wetted surface.

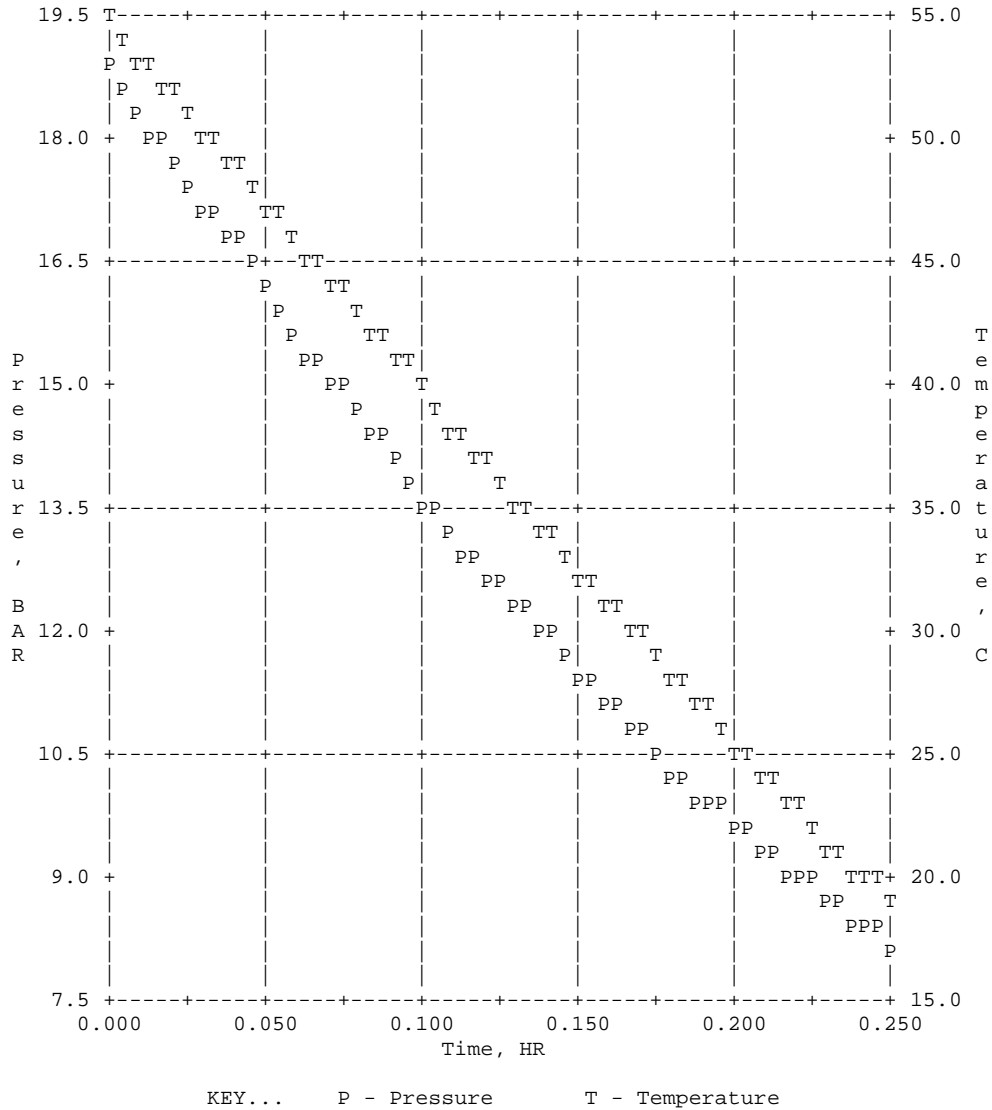
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

### Fire case

#### \*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.6	3781.087	86.072
1.0E-02	18.399	53.1	3716.299	86.187
2.0E-02	17.812	51.6	3588.747	86.416
3.0E-02	17.239	50.1	3465.208	86.631
4.0E-02	16.681	48.6	3345.577	86.833
5.0E-02	16.136	47.1	3229.753	87.022
6.0E-02	15.606	45.6	3117.634	87.199
7.0E-02	15.090	44.2	3009.125	87.364
8.0E-02	14.587	42.7	2904.128	87.518
9.0E-02	14.099	41.2	2802.552	87.662
1.0E-01	13.624	39.7	2704.303	87.794
0.110	13.162	38.3	2609.291	87.917
0.120	12.714	36.8	2517.428	88.030
0.130	12.279	35.3	2428.627	88.134
0.140	11.857	33.9	2342.802	88.229
0.150	11.447	32.4	2259.869	88.315
0.160	11.050	31.0	2179.748	88.393
0.170	10.666	29.6	2102.355	88.463
0.180	10.293	28.2	2027.610	88.525
0.190	9.932	26.8	1955.437	88.580
0.200	9.583	25.4	1885.759	88.628
0.210	9.245	24.0	1818.500	88.668
0.220	8.918	22.6	1753.589	88.702
0.230	8.601	21.2	1690.952	88.730
0.240	8.296	19.9	1630.519	88.751
0.250	8.000	18.5	1572.220	88.767

Pressure and Temperature Profiles



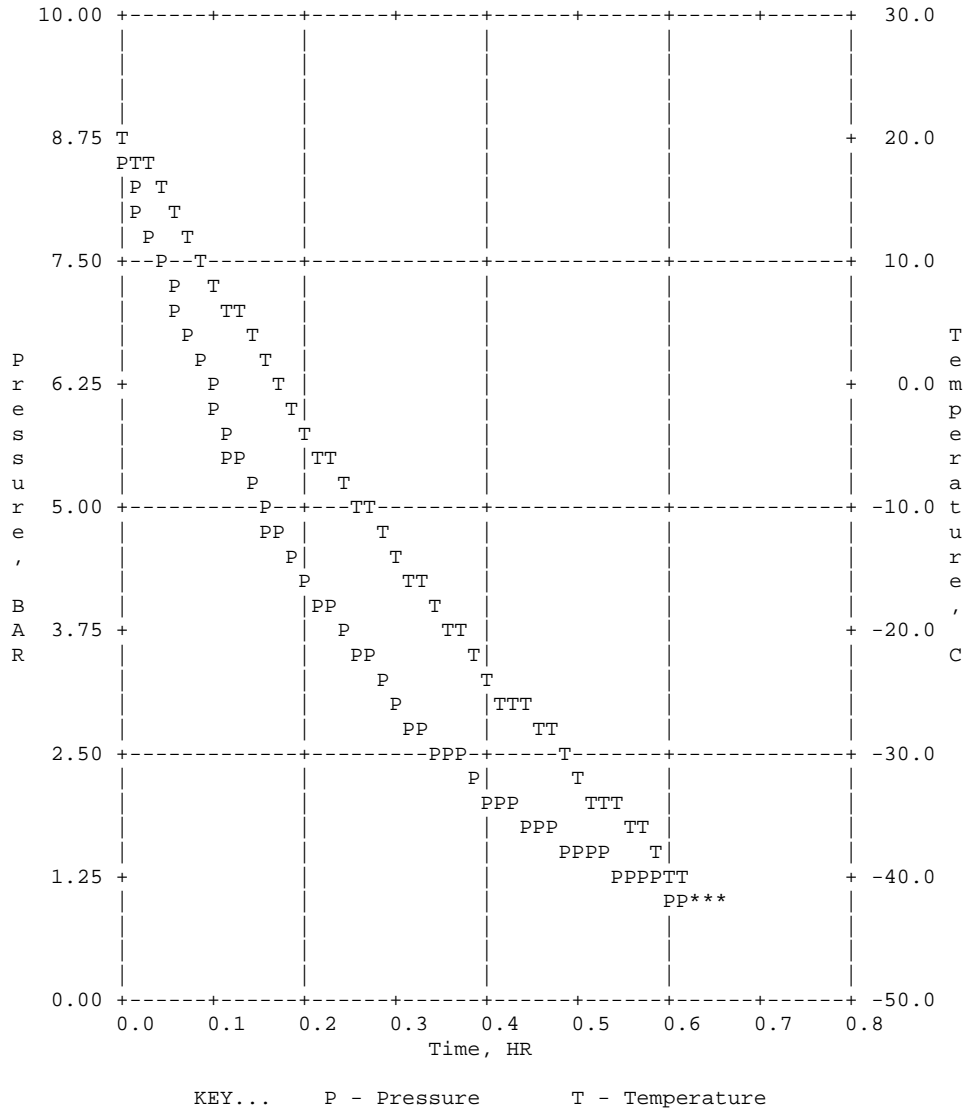
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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Cold depressurization



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.581	21.0	1656.503	88.762
2.0E-02	7.996	18.4	1599.740	88.776
4.0E-02	7.448	15.8	1490.115	88.795
6.0E-02	6.938	13.2	1388.045	88.794
8.0E-02	6.461	10.7	1293.054	88.774
1.0E-01	6.017	8.2	1204.688	88.737
0.120	5.603	5.8	1122.516	88.684
0.140	5.218	3.4	1046.129	88.617
0.160	4.859	1.0	975.141	88.536
0.180	4.526	-1.2	909.186	88.443
0.200	4.217	-3.5	847.922	88.339
0.220	3.929	-5.7	791.024	88.225
0.240	3.662	-7.8	738.188	88.102
0.260	3.414	-10.0	689.128	87.971
0.280	3.184	-12.0	643.578	87.833
0.300	2.970	-14.0	601.286	87.688
0.320	2.772	-16.0	562.020	87.537
0.340	2.588	-17.9	525.560	87.382
0.360	2.418	-19.8	491.704	87.222
0.380	2.259	-21.7	460.262	87.058
0.400	2.112	-23.5	431.057	86.892
0.420	1.976	-25.2	403.925	86.722
0.440	1.850	-27.0	378.714	86.550
0.460	1.732	-28.6	355.281	86.377
0.480	1.623	-30.3	333.498	86.202
0.500	1.522	-31.9	313.241	86.026
0.520	1.428	-33.4	294.397	85.849
0.540	1.341	-35.0	276.863	85.673
0.560	1.259	-36.5	260.540	85.496
0.580	1.184	-37.9	245.341	85.319
0.600	1.114	-39.3	231.181	85.143
0.620	1.048	-40.7	217.985	84.967
0.630	1.017	-41.4	208.596	84.834
0.650	0.959	-42.7	199.839	84.706

Pressure and Temperature Profiles





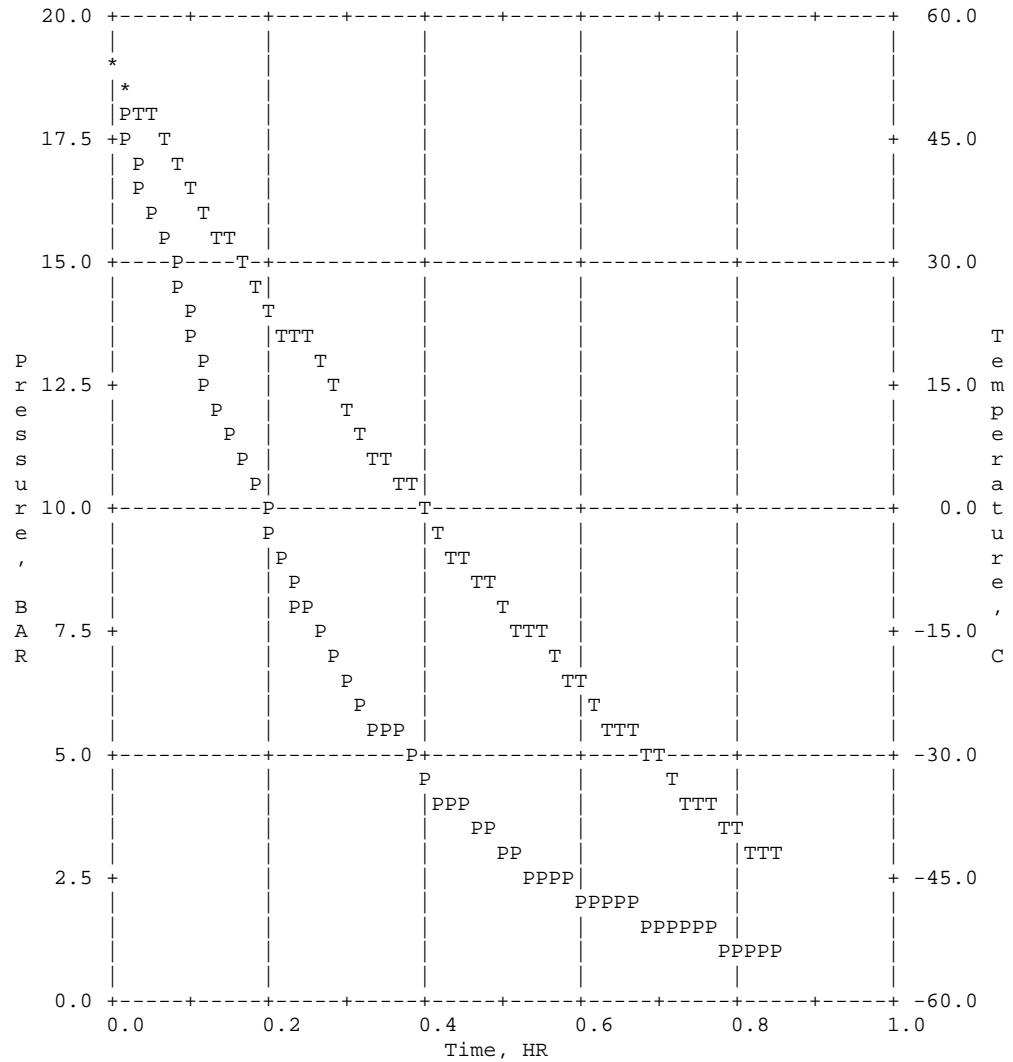
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
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		<b>Rev. : 3    Class: 2</b>

Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.6	3781.765	86.087
2.0E-02	17.806	51.6	3653.556	86.308
4.0E-02	16.669	48.6	3405.098	86.741
6.0E-02	15.589	45.6	3172.203	87.122
8.0E-02	14.566	42.6	2954.060	87.455
1.0E-01	13.598	39.6	2749.894	87.744
0.120	12.684	36.7	2558.961	87.991
0.140	11.823	33.8	2380.542	88.200
0.160	11.014	30.9	2213.948	88.373
0.180	10.254	28.0	2058.513	88.513
0.200	9.541	25.2	1913.595	88.622
0.220	8.874	22.4	1778.577	88.703
0.240	8.250	19.7	1652.868	88.757
0.260	7.667	17.0	1535.899	88.787
0.280	7.124	14.3	1427.128	88.795
0.300	6.617	11.7	1326.036	88.782
0.320	6.146	9.1	1232.129	88.749
0.340	5.708	6.5	1144.936	88.699
0.360	5.300	4.1	1064.012	88.633
0.380	4.922	1.6	988.936	88.552
0.400	4.570	-7.9E-01	919.307	88.457
0.420	4.244	-3.1	854.750	88.351
0.440	3.942	-5.4	794.911	88.233
0.460	3.662	-7.7	739.457	88.105
0.480	3.403	-9.9	688.074	87.968
0.500	3.163	-12.1	640.471	87.823
0.520	2.940	-14.2	596.374	87.670
0.540	2.734	-16.3	555.526	87.511
0.560	2.544	-18.3	517.689	87.347
0.580	2.367	-20.3	482.639	87.177
0.600	2.204	-22.2	450.171	87.003
0.620	2.053	-24.1	420.091	86.826
0.640	1.913	-25.9	392.221	86.645
0.660	1.784	-27.7	366.394	86.462
0.680	1.664	-29.5	342.455	86.277
0.700	1.554	-31.2	320.264	86.090
0.720	1.451	-32.9	299.686	85.902
0.740	1.356	-34.5	280.600	85.714
0.760	1.268	-36.1	262.892	85.524
0.780	1.187	-37.7	246.457	85.335
0.800	1.111	-39.2	231.200	85.146
0.820	1.041	-40.7	217.030	84.957
0.830	1.008	-41.4	206.976	84.814
0.850	0.945	-42.9	197.632	84.675

Pressure and Temperature Profiles



KEY... P - Pressure T - Temperature



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

### 5.10.4 BDV 0051

#### Volume Calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0044	111-A-101	S1	vapor	0	0.000	205710	48.111	0.000	1.000	0	395
SDV-0044	111-D-103	149	vapor	0	0.000	205710	48.365	0.000	1.000	0	276
111-A-101	111-D-103	149B	liquid	205710	430.328	0	0.000	1.000	0.000	5110	0
ESDV-0058	111-D-103	141	liquid	205710	429.478	0	0.000	1.000	0.000	266	0
111-P-101	111-D-103	141	liquid	205710	429.478	0	0.000	1.000	0.000	25	0
111-D-103	SDV-0054	141	liquid	205710	429.478	0	0.000	1.000	0.000	6365	0
111-K-301	111-A-101	149	vapor	0	0.000	205710	48.365	0.000	1.000	0	496
111-P-301	111-D-103	141	liquid	205710	429.478	0	0.000	1.000	0.000	65	0
	111-A-101	S1,149B	liq.+vap.		430.328		48.111			2848	318
	111-D-103	149B,141	liq.+vap.		429.478		48.365			38751	1038
	<b>TOTAL</b>	<b>QUANTITY</b>								<b>53430</b>	<b>2524</b>

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0044	111-A-101	16	16.00	D21	406.4	40	12.70	381	15.000	12	60	0.000	8.209	8.209
SDV-0044	111-D-103	16	16.00	D21	406.4	40	12.70	381	15.000	10	40	0.000	5.700	5.700
111-A-101	111-D-103	18	17.99	D21	457.0	30	11.13	434.74	17.116	10	70	11.875	0.000	11.875
ESDV-0058	111-D-103	3	3.50	D21	88.9	40	5.49	77.92	3.068	10	120	0.620	0.000	0.620
111-P-101	111-D-103	2	2.37	D21	60.3	80	5.54	49.22	1.938	0	30	0.057	0.000	0.057
111-D-103	SDV-0054	16	16.00	D21	406.4	40	12.70	381	15.000	10	120	14.821	0.000	14.821
111-K-301	111-A-101	16	16.00	D21	406.4	40	12.70	381	15.000	10	80	0.000	10.261	10.261
111-P-301	111-D-103	2	2.37	D21	60.3	80	5.54	49.22	1.938	20	60	0.152	0.000	0.152
	111-A-101											6.618	6.618	13.235
	111-D-103											90.050	21.472	111.522
	<b>TOTAL</b>											<b>124.193</b>	<b>52.259</b>	<b>176.453</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Wetted area calculation



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	TOTAL AREA	VERT. WET AREA	HORIZ. WET AREA	TOTAL WET AREA
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)	(m2)	(m2)	(m2)	(m2)
SDV-0044	111-A-101	S1	vapor	0	0.000	205710	48.111	0.000	0.000	0.000	0.000
SDV-0044	111-D-103	149	vapor	0	0.000	205710	48.365	35.908	0.000	0.000	0.000
111-A-101	111-D-103	149B	liquid	205710	430.328	0	0.000	27.316	0.000	27.316	27.316
ESDV-0058	111-D-103	141	liquid	205710	429.478	0	0.000	4.896	0.000	4.896	4.896
111-P-101	111-D-103	141	liquid	205710	429.478	0	0.000	3.093	0.000	3.093	3.093
111-D-103	SDV-0054	141	liquid	205710	429.478	0	0.000	35.908	11.969	23.939	35.908
111-K-301	111-A-101	149	vapor	0	0.000	205710	48.365	0.000	0.000	0.000	0.000
111-P-301	111-D-103	141	liquid	205710	429.478	0	0.000	4.639	1.546	3.093	4.639
111-A-101		S1,149B	liq.+vap.		430.328		48.111				
111-D-103		149B,149	liq.+vap.		429.478		48.365				97.940
<b>TOTAL</b>		<b>QUANTITY</b>						111.760	13.516	62.335	173.791

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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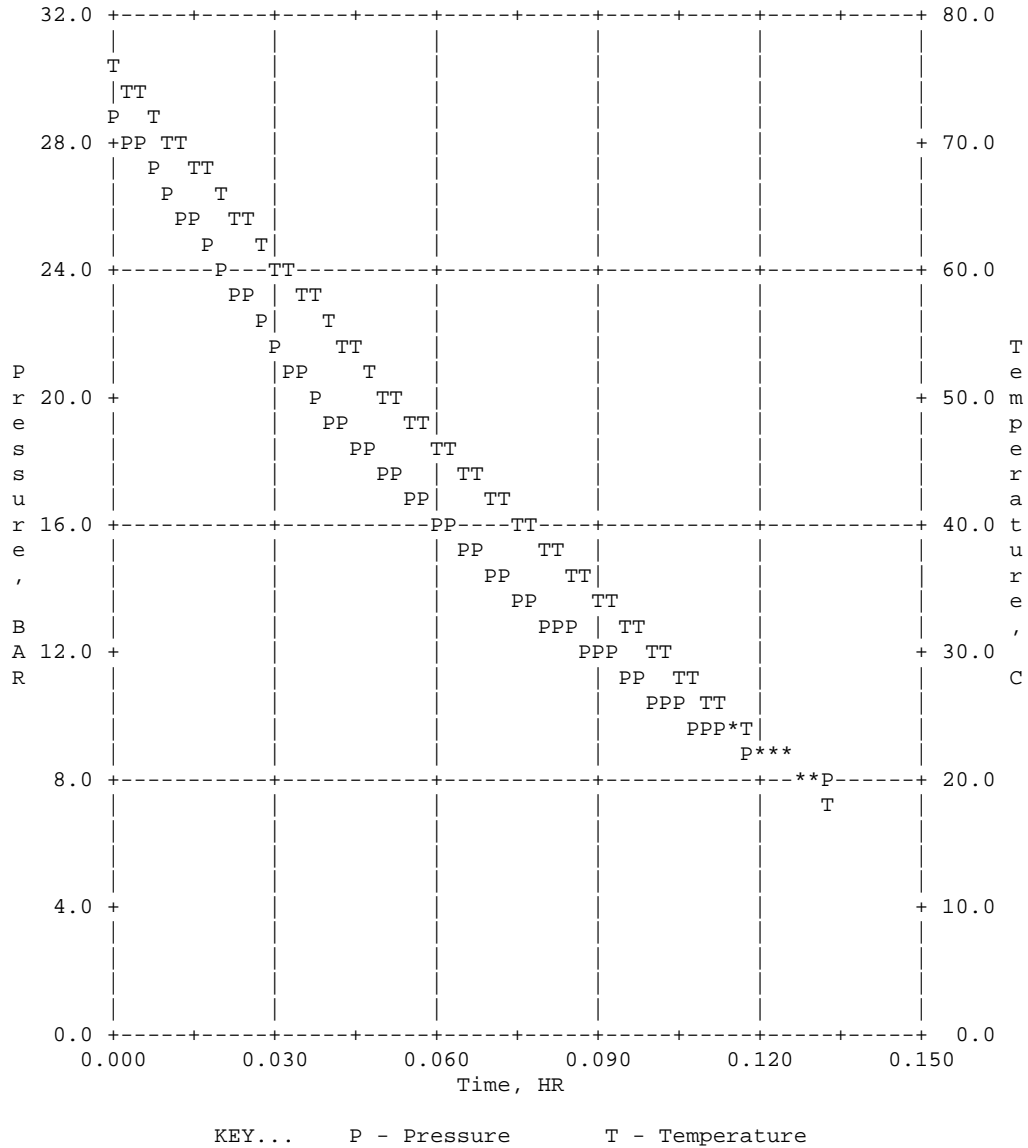
Fire case

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	75.6	2.453E+05	3219.769
1.0E-02	27.473	72.7	2.374E+05	3239.230
2.0E-02	26.009	69.9	2.222E+05	3277.310
3.0E-02	24.611	67.1	2.082E+05	3310.883
4.0E-02	23.279	64.3	1.952E+05	3340.568
5.0E-02	22.015	61.6	1.832E+05	3366.860
6.0E-02	20.817	58.8	1.720E+05	3390.161
7.0E-02	19.685	56.2	1.617E+05	3410.805
8.0E-02	18.618	53.5	1.521E+05	3429.083
9.0E-02	17.613	51.0	1.432E+05	3445.243
1.0E-01	16.667	48.5	1.349E+05	3459.501
0.110	15.780	46.0	1.272E+05	3472.050
0.120	14.948	43.6	1.201E+05	3483.058
0.130	14.168	41.3	1.135E+05	3492.680
0.140	13.439	39.0	1.074E+05	3501.051
0.150	12.757	36.8	1.017E+05	3508.295
0.160	12.119	34.7	96365.778	3514.527
0.170	11.524	32.6	91452.215	3519.846
0.180	10.969	30.6	86890.420	3524.345
0.190	10.450	28.6	82654.294	3528.110
0.200	9.967	26.8	78719.644	3531.217
0.210	9.516	25.0	75064.428	3533.738
0.220	9.096	23.2	71669.079	3535.735
0.230	8.705	21.6	68514.624	3537.267
0.240	8.340	19.9	65583.053	3538.387
0.250	8.000	18.4	62858.076	3539.145

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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### Cold depressurization

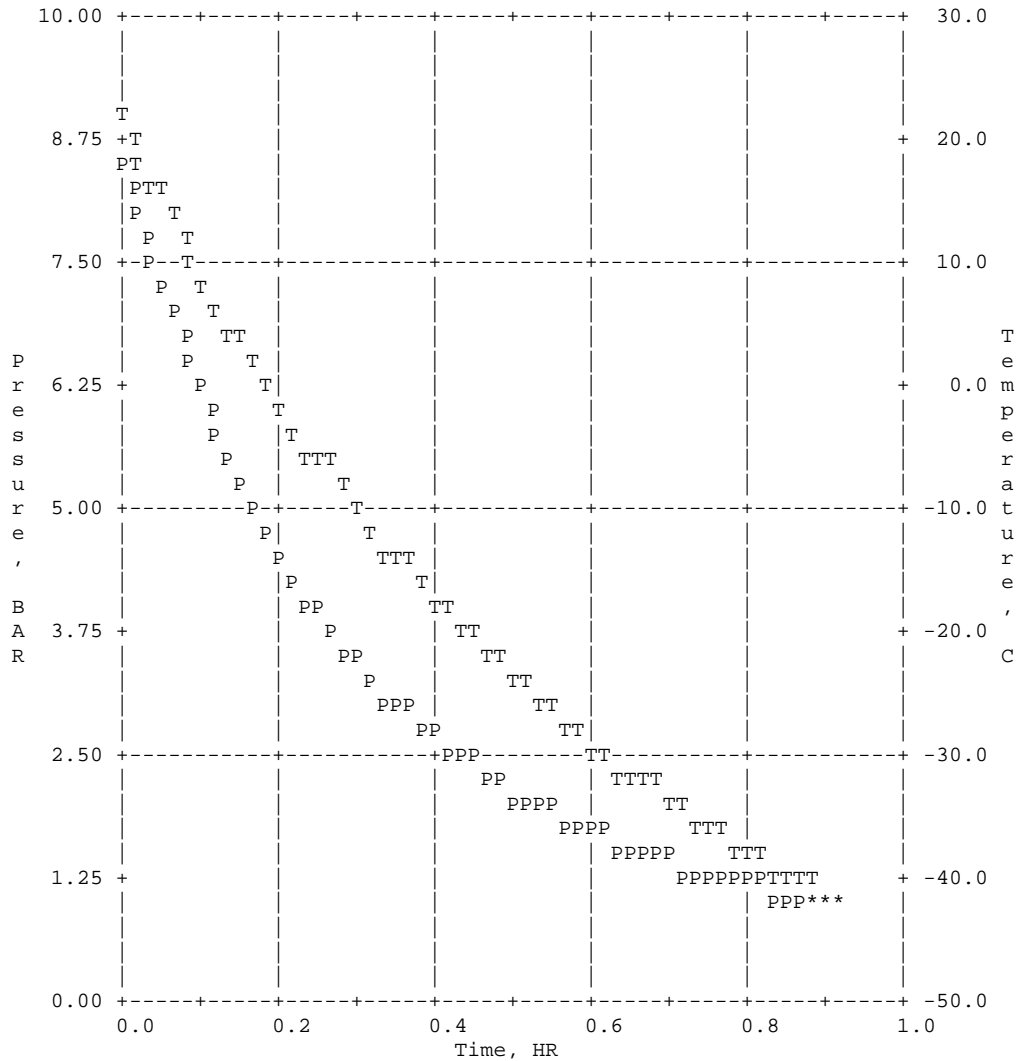
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.624	21.0	66359.303	3538.873
2.0E-02	8.037	18.4	64088.659	3539.461
4.0E-02	7.498	15.8	59745.261	3540.271
6.0E-02	7.005	13.4	55778.002	3540.288
8.0E-02	6.552	11.0	52149.704	3539.616
1.0E-01	6.137	8.7	48827.139	3538.347
0.120	5.755	6.5	45780.595	3536.559
0.140	5.403	4.4	42983.484	3534.324
0.160	5.079	2.3	40412.010	3531.703
0.180	4.781	3.3E-01	38044.861	3528.751
0.200	4.505	-1.6	35862.938	3525.516
0.220	4.251	-3.4	33849.113	3522.039
0.240	4.015	-5.2	31988.015	3518.359
0.260	3.797	-6.9	30265.840	3514.507
0.280	3.595	-8.6	28670.186	3510.512
0.300	3.407	-10.2	27189.881	3506.398
0.320	3.233	-11.8	25814.860	3502.189
0.340	3.071	-13.3	24536.069	3497.904
0.360	2.920	-14.7	23345.332	3493.559
0.380	2.779	-16.1	22235.260	3489.170
0.400	2.647	-17.5	21199.177	3484.749
0.420	2.524	-18.8	20231.038	3480.308
0.440	2.409	-20.1	19325.364	3475.857
0.460	2.302	-21.4	18477.183	3471.405
0.480	2.201	-22.6	17681.982	3466.960
0.500	2.106	-23.7	16935.658	3462.527
0.520	2.017	-24.9	16234.480	3458.112
0.540	1.934	-26.0	15575.045	3453.722
0.560	1.855	-27.1	14954.248	3449.359
0.580	1.781	-28.1	14369.255	3445.028
0.600	1.711	-29.1	13817.474	3440.732
0.620	1.645	-30.1	13296.536	3436.473
0.640	1.583	-31.1	12804.267	3432.253
0.660	1.524	-32.0	12338.675	3428.075
0.680	1.468	-32.9	11897.932	3423.940
0.700	1.415	-33.8	11480.357	3419.849
0.720	1.365	-34.7	11084.404	3415.803
0.740	1.318	-35.5	10708.646	3411.804
0.760	1.273	-36.4	10351.768	3407.851
0.780	1.230	-37.2	10012.571	3403.945
0.800	1.190	-38.0	9689.934	3400.086
0.820	1.151	-38.7	9382.809	3396.275
0.840	1.114	-39.5	9090.246	3392.511

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

0.860	1.079	-40.2	8811.359	3388.795
0.880	1.046	-40.9	8545.325	3385.125
0.890	1.029	-41.3	8352.664	3382.379
0.910	0.998	-42.0	8168.669	3379.708

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature



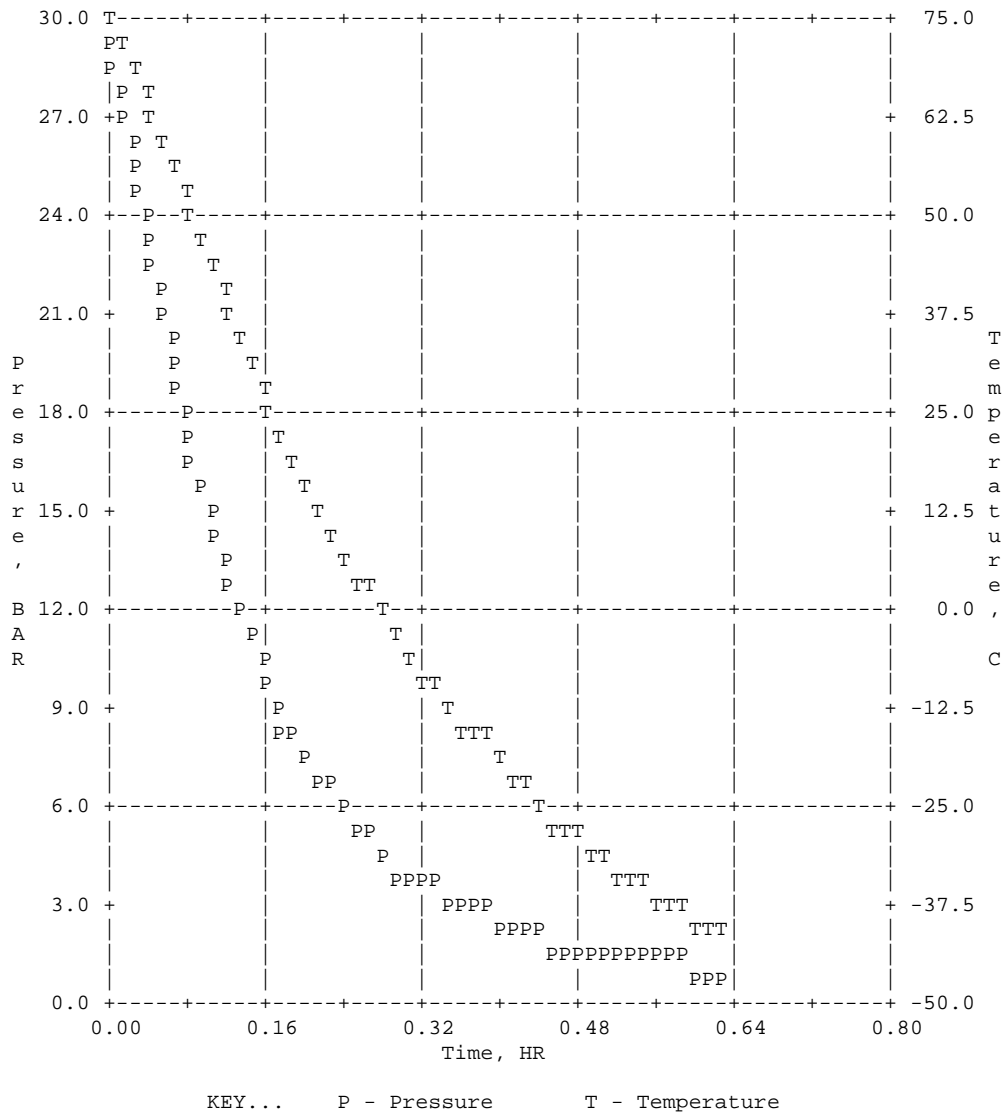
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

### Spurious depressurization

#### \*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	75.6	2.453E+05	3219.839
2.0E-02	25.421	68.7	2.272E+05	3260.719
4.0E-02	22.201	62.0	1.941E+05	3339.983
6.0E-02	19.343	55.3	1.664E+05	3399.336
8.0E-02	16.832	48.9	1.430E+05	3443.913
1.0E-01	14.643	42.7	1.232E+05	3477.091
0.120	12.747	36.7	1.065E+05	3501.282
0.140	11.110	31.1	92324.144	3518.311
0.160	9.702	25.7	80284.906	3529.603
0.180	8.493	20.6	70055.959	3536.295
0.200	7.455	15.7	61351.232	3539.305
0.220	6.564	11.2	53929.294	3539.380
0.240	5.799	6.9	47586.849	3537.127
0.260	5.140	2.8	42153.074	3533.045
0.280	4.572	-9.9E-01	37484.746	3527.536
0.300	4.081	-4.6	33461.979	3520.930
0.320	3.656	-8.0	29984.502	3513.495
0.340	3.287	-11.2	26968.519	3505.447
0.360	2.965	-14.2	24344.033	3496.960
0.380	2.684	-17.0	22052.479	3488.174
0.400	2.438	-19.7	20044.799	3479.202
0.420	2.221	-22.2	18279.852	3470.135
0.440	2.030	-24.6	16723.063	3461.041
0.460	1.861	-26.9	15345.327	3451.978
0.480	1.710	-29.0	14122.082	3442.989
0.500	1.577	-31.1	13032.550	3434.108
0.520	1.457	-33.0	12059.106	3425.360
0.540	1.350	-34.9	11186.759	3416.764
0.560	1.254	-36.6	10402.722	3408.334
0.580	1.167	-38.3	9696.059	3400.081
0.600	1.089	-39.9	9057.388	3392.009
0.620	1.018	-41.4	8478.637	3384.124
0.630	0.985	-42.2	8075.063	3378.225

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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## 5.11 UNIT 113

### 5.11.1 BDV 0010



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
113-D-102									31.0	0
TOTAL									40.3	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
113-D-102								60.4
TOTAL								78.5

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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		<b>Rev. : 3    Class: 2</b>

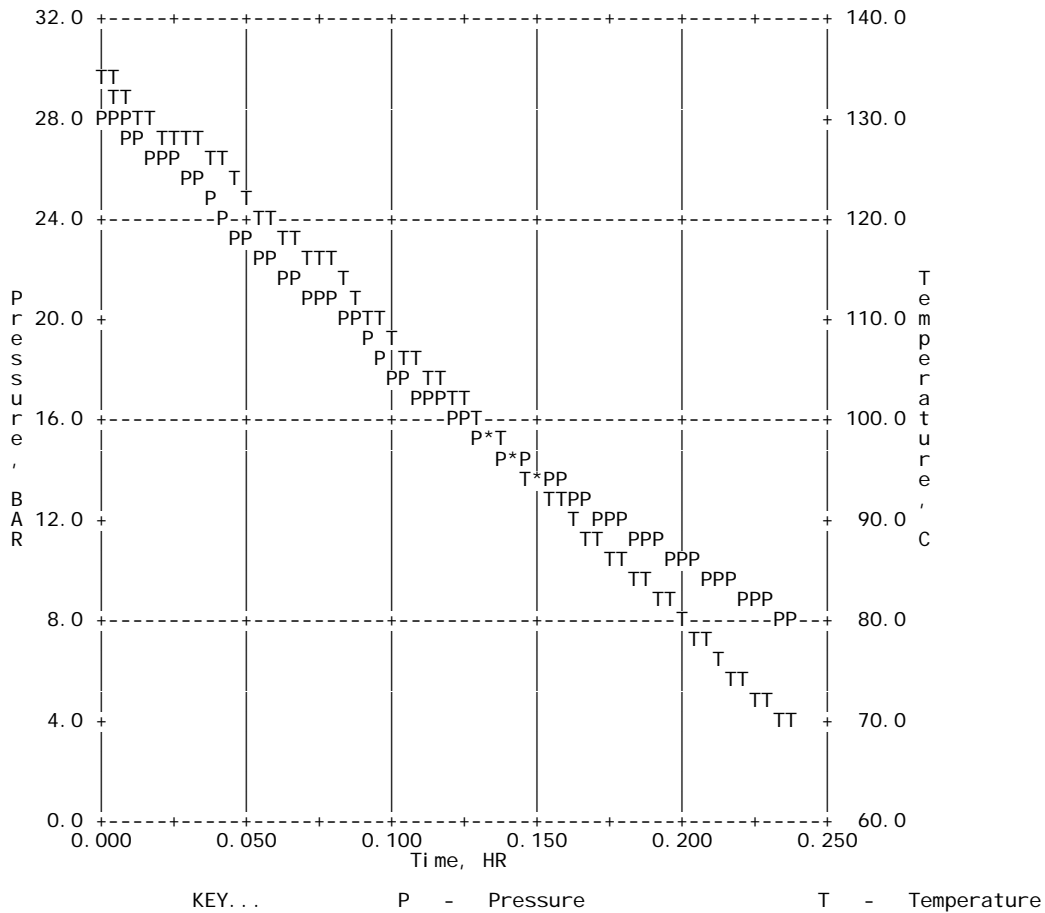
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0. 000	28. 313	133. 7	73000. 496	815. 455
1. 6E-05	28. 315	133. 7	73001. 458	815. 466
5. 6E-05	28. 314	133. 7	73005. 233	815. 441
9. 5E-05	28. 313	133. 7	73001. 554	815. 451
3. 7E-04	28. 282	133. 6	72948. 886	815. 575
5. 1E-04	28. 269	133. 6	72872. 535	815. 797
7. 0E-04	28. 251	133. 6	72819. 754	815. 940
9. 5E-04	28. 228	133. 5	72750. 173	816. 127
1. 3E-03	28. 196	133. 4	72656. 571	816. 376
1. 7E-03	28. 153	133. 4	72530. 772	816. 713
2. 3E-03	28. 096	133. 2	72363. 025	817. 162
3. 1E-03	28. 020	133. 1	72139. 595	817. 758
4. 1E-03	27. 919	132. 9	71841. 840	818. 553
5. 5E-03	27. 784	132. 6	71446. 818	819. 604
7. 3E-03	27. 605	132. 2	70924. 886	820. 986
9. 7E-03	27. 368	131. 7	70236. 667	822. 799
1. 3E-02	27. 055	131. 0	69334. 141	825. 162
1. 7E-02	26. 643	130. 1	68159. 199	828. 212
2. 2E-02	26. 108	128. 9	66644. 047	832. 104
2. 9E-02	25. 418	127. 3	64715. 580	836. 993
3. 7E-02	24. 544	125. 3	62304. 791	842. 998
4. 6E-02	23. 595	123. 1	59555. 180	849. 734
5. 5E-02	22. 638	120. 7	56746. 330	856. 479
6. 4E-02	21. 677	118. 3	53984. 240	862. 953
7. 3E-02	20. 716	115. 8	51274. 218	869. 151
8. 2E-02	19. 756	113. 2	48619. 992	875. 064
9. 2E-02	18. 802	110. 5	46026. 031	880. 681
0. 101	17. 859	107. 8	43500. 239	885. 990
0. 111	16. 928	105. 0	41044. 263	890. 987
0. 121	16. 010	102. 1	38658. 941	895. 670
0. 131	15. 106	99. 1	36344. 201	900. 039
0. 141	14. 222	96. 1	34102. 870	904. 088
0. 152	13. 359	93. 0	31938. 997	907. 808
0. 163	12. 512	89. 8	29846. 415	911. 208
0. 174	11. 693	86. 6	27831. 673	914. 276
0. 186	10. 900	83. 3	25900. 726	916. 999
0. 198	10. 129	79. 9	24044. 408	919. 389
0. 211	9. 387	76. 4	22265. 703	921. 439
0. 224	8. 673	72. 9	20567. 146	923. 141
0. 237	7. 987	69. 4	18945. 053	924. 496
UNI T	1	SOLVED	- ' 113-BDV-0010-FI RE	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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UNIT 2, '113-BDV-0010-FIRE' (Cont)



Pressure and Temperature Profiles



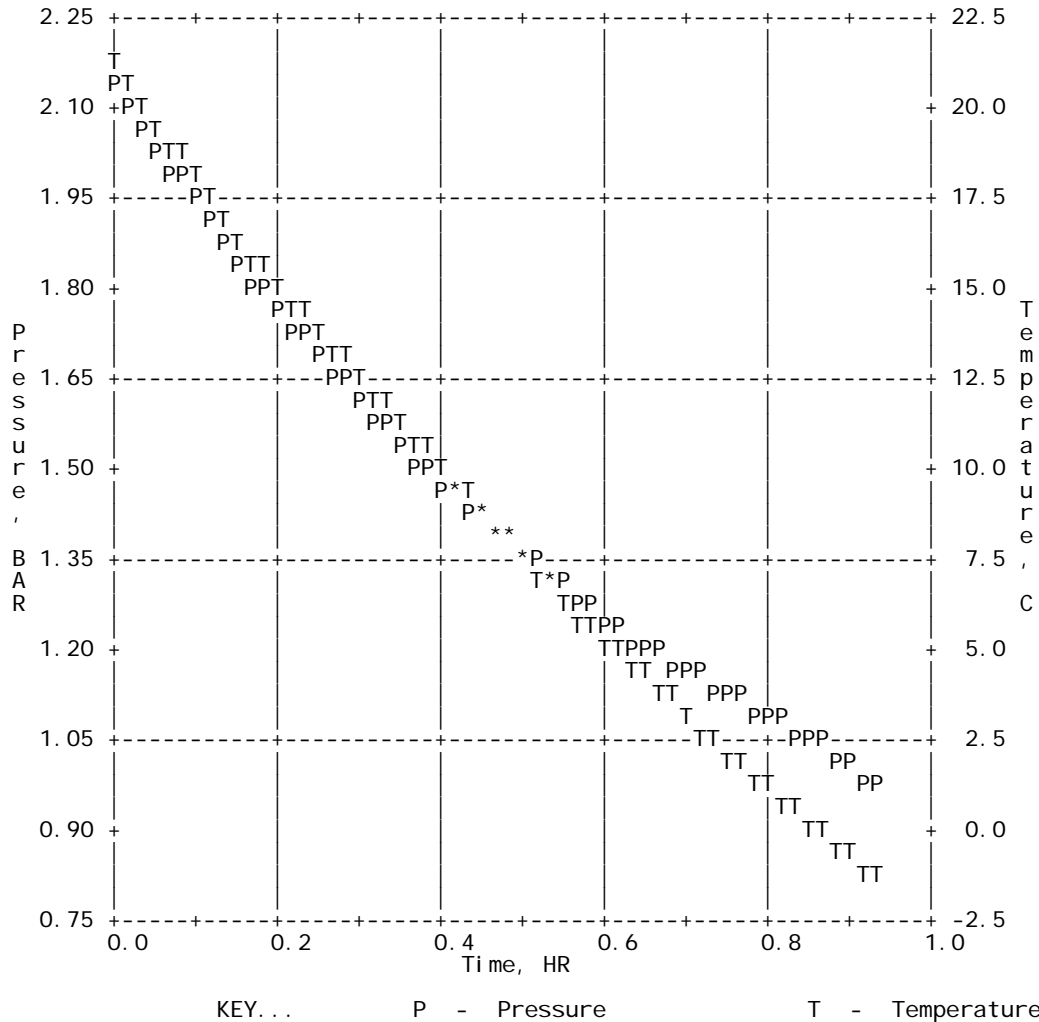
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	2.142	21.0	4946.483	910.285
5.0E-02	2.038	19.5	4830.243	909.671
1.0E-01	1.942	18.0	4605.405	908.414
0.150	1.852	16.5	4395.671	907.160
0.200	1.767	15.1	4199.358	905.908
0.250	1.688	13.8	4015.036	904.657
0.300	1.614	12.4	3842.254	903.413
0.350	1.545	11.2	3681.369	902.187
0.400	1.480	9.9	3529.970	900.968
0.450	1.417	8.7	3385.194	899.739
0.500	1.360	7.5	3249.115	898.522
0.550	1.305	6.4	3121.951	897.327
0.600	1.254	5.3	3001.999	896.144
0.650	1.205	4.2	2888.743	894.974
0.700	1.160	3.1	2781.667	893.817
0.750	1.115	2.1	2678.906	892.656
0.800	1.074	1.1	2581.682	891.508
0.850	1.036	7.7E-02	2491.060	890.393
0.875	1.017	-4.2E-01	2425.200	889.550
0.925	0.981	-1.4	2362.715	888.732
UNIT	2	SOLVED	- ' 113-BDV-0010-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '113-BDV-0010-COLD' (Cont)  
Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

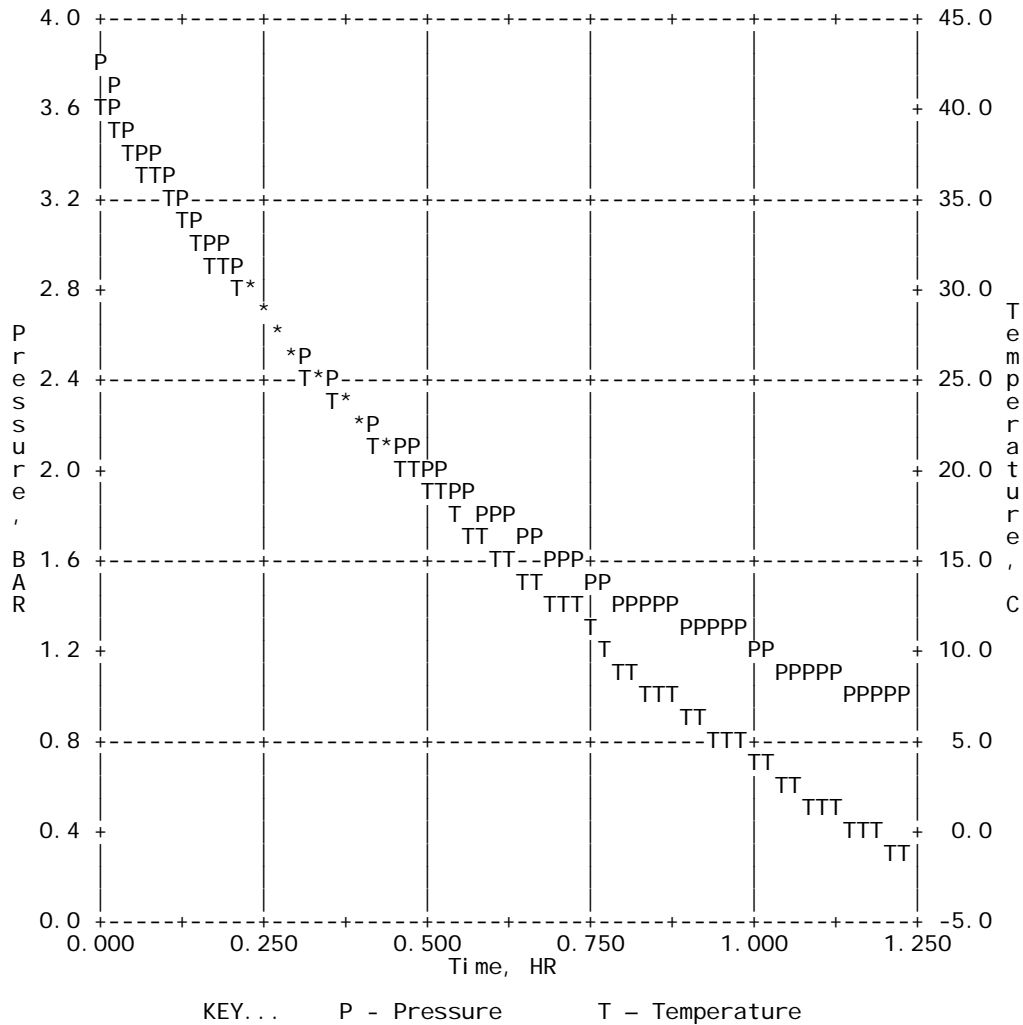
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	3.781	40.0	8621.399	922.176
5.0E-02	3.522	37.5	8331.106	921.612
1.0E-01	3.288	35.1	7778.765	920.413
0.150	3.072	32.8	7274.962	919.144
0.200	2.876	30.5	6812.961	917.814
0.250	2.695	28.4	6390.439	916.440
0.300	2.530	26.3	6002.700	915.028
0.350	2.378	24.3	5646.970	913.590
0.400	2.238	22.4	5320.154	912.134
0.450	2.110	20.5	5019.314	910.665
0.500	1.992	18.8	4742.310	909.191
0.550	1.883	17.0	4486.877	907.717
0.600	1.782	15.4	4250.417	906.242
0.650	1.688	13.8	4031.319	904.772
0.700	1.601	12.2	3827.986	903.309
0.750	1.521	10.7	3639.275	901.857
0.800	1.446	9.3	3463.996	900.418
0.850	1.377	7.9	3300.811	898.994
0.900	1.312	6.5	3148.672	897.586
0.950	1.251	5.2	3005.856	896.186
1.000	1.194	3.9	2872.437	894.804
1.050	1.140	2.7	2747.105	893.435
1.100	1.091	1.5	2629.616	892.083
1.150	1.044	3.0E-01	2519.849	890.755
1.175	1.022	-2.7E-01	2441.166	889.758
1.225	0.980	-1.4	2367.913	888.804
UNIT	3	SOLVED	- ' 113-BDV-0010-SPURIOUS '	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '113-BDV-0010-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

## 5.12 UNIT 114

### 5.12.1 BDV 0004

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-D-101									92.0	0
	TOTAL								119.6	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-D-101		92.0						148.66
	TOTAL	119.6						193.26

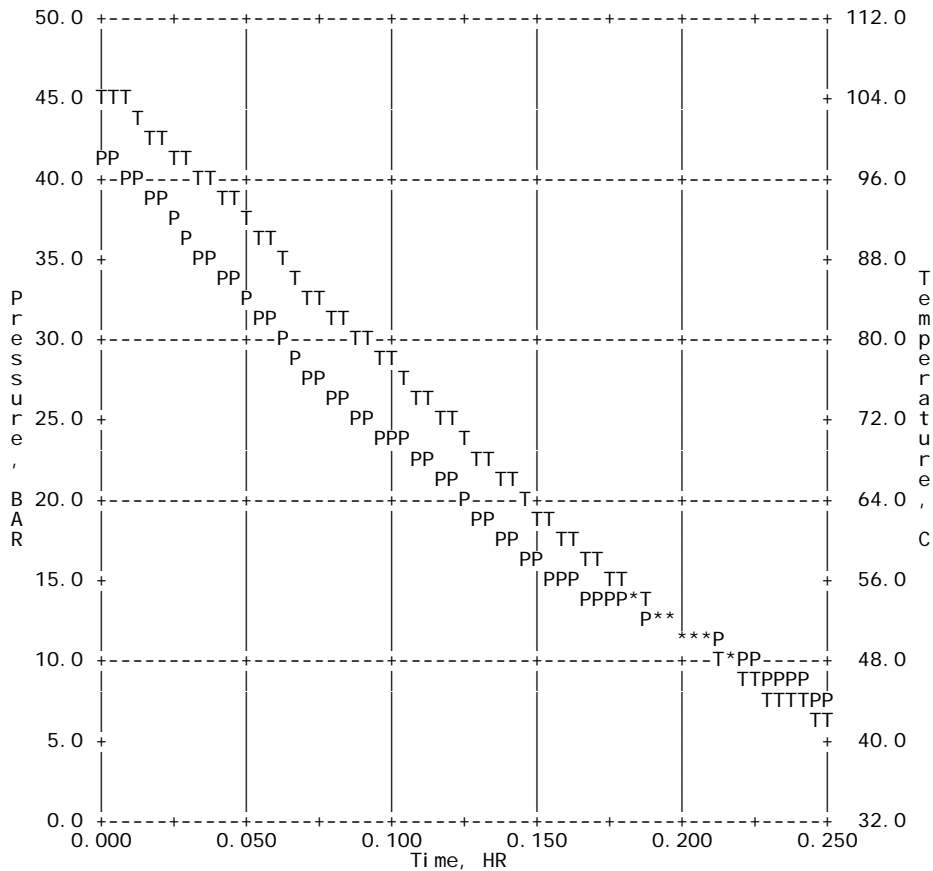
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	41.800	104.9	2.807E+05	2296.350
1.1E-05	41.796	104.9	2.807E+05	2296.395
2.3E-05	41.793	104.9	2.807E+05	2296.483
5.0E-05	41.784	104.9	2.806E+05	2296.639
9.9E-05	41.776	104.9	2.805E+05	2296.858
1.7E-04	41.763	104.9	2.804E+05	2297.133
2.9E-04	41.743	104.8	2.802E+05	2297.570
4.8E-04	41.710	104.8	2.800E+05	2298.262
7.7E-04	41.659	104.7	2.796E+05	2299.359
1.2E-03	41.579	104.6	2.789E+05	2301.086
2.0E-03	41.450	104.4	2.779E+05	2303.810
3.1E-03	41.247	104.2	2.763E+05	2308.093
4.9E-03	40.927	103.8	2.737E+05	2314.751
7.7E-03	40.427	103.1	2.698E+05	2324.977
1.2E-02	39.654	102.1	2.638E+05	2340.377
1.8E-02	38.482	100.5	2.550E+05	2362.868
2.5E-02	37.030	98.5	2.434E+05	2391.726
3.3E-02	35.547	96.4	2.310E+05	2422.303
4.1E-02	34.040	94.2	2.189E+05	2451.589
4.8E-02	32.519	92.0	2.070E+05	2479.581
5.6E-02	30.993	89.6	1.954E+05	2506.243
6.4E-02	29.472	87.2	1.842E+05	2531.565
7.2E-02	27.960	84.8	1.733E+05	2555.555
8.1E-02	26.465	82.3	1.628E+05	2578.234
8.9E-02	24.990	79.7	1.526E+05	2599.627
9.8E-02	23.541	77.1	1.428E+05	2619.768
0.107	22.121	74.5	1.334E+05	2638.692
0.116	20.732	71.8	1.244E+05	2656.438
0.126	19.376	69.1	1.157E+05	2673.044
0.136	18.056	66.4	1.074E+05	2688.548
0.146	16.771	63.6	99347.988	2702.985
0.157	15.524	60.8	91670.460	2716.390
0.168	14.314	58.0	84309.474	2728.799
0.180	13.174	55.3	77346.851	2740.222
0.192	12.033	52.5	70657.906	2750.719
0.205	10.929	49.7	64140.123	2760.358
0.219	9.861	46.8	57889.896	2769.083
0.234	8.826	44.0	51887.289	2776.898
0.250	7.823	41.2	46116.633	2783.768
UNIT	1	SOLVED	- 'BDV-0004-FI RE'	

UNIT 1, '114-BDV-0004-FIRE', '114-BDV-0004-FIRE' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

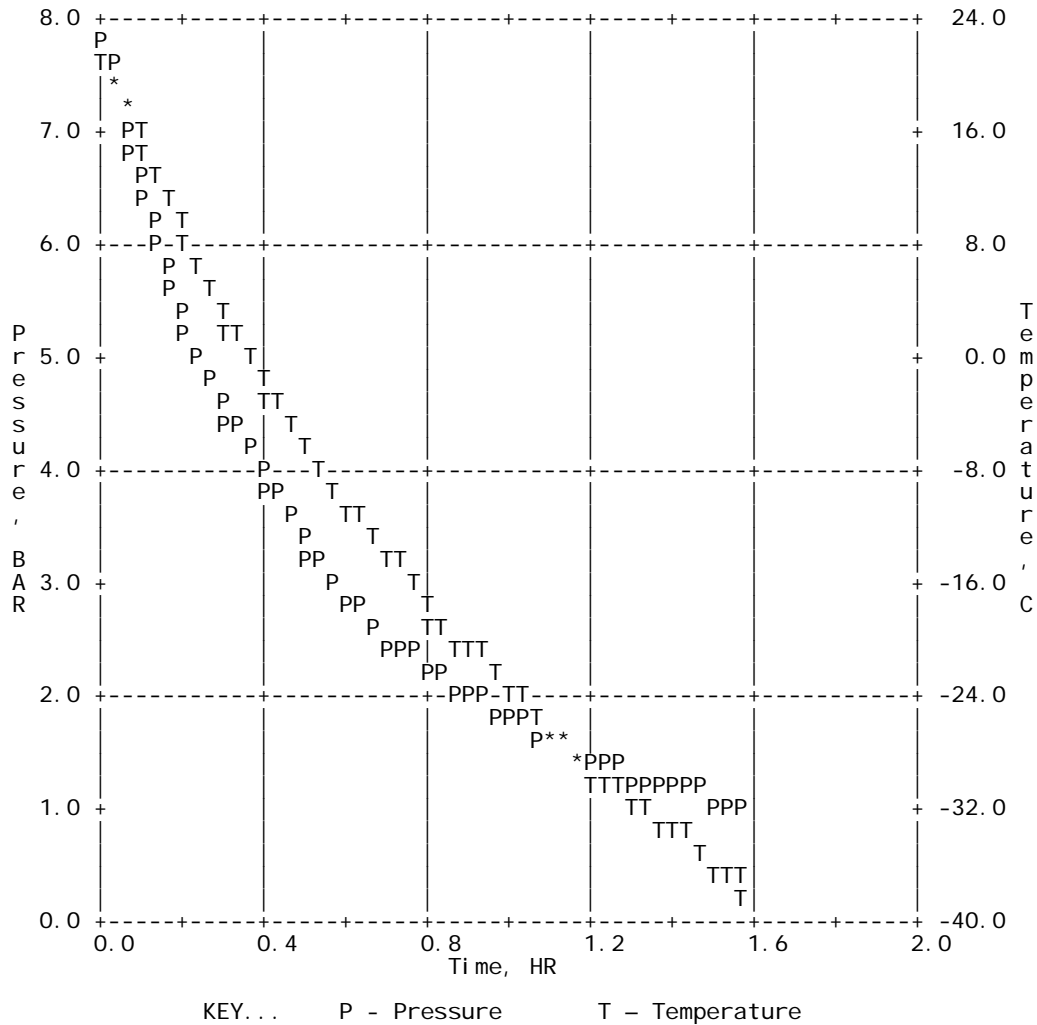
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE ---- M3/HR
0.000	7.700	21.0	43432.152	2663.526
5.0E-02	6.979	17.5	41400.175	2663.317
1.0E-01	6.343	14.1	37585.584	2662.414
0.150	5.783	10.9	34234.583	2660.628
0.200	5.286	7.9	31280.056	2658.129
0.250	4.846	5.1	28667.392	2655.059
0.300	4.456	2.4	26352.592	2651.541
0.350	4.109	-1.9E-01	24300.660	2647.637
0.400	3.797	-2.6	22468.553	2643.321
0.450	3.517	-5.0	20821.498	2638.737
0.500	3.266	-7.2	19342.479	2634.085
0.550	3.039	-9.3	18010.085	2629.381
0.600	2.834	-11.3	16807.446	2624.647
0.650	2.648	-13.2	15718.765	2619.897
0.700	2.480	-15.0	14729.801	2615.142
0.750	2.326	-16.8	13829.169	2610.397
0.800	2.186	-18.4	13007.047	2605.671
0.850	2.058	-20.0	12255.948	2600.985
0.900	1.940	-21.6	11567.715	2596.342
0.950	1.833	-23.1	10935.087	2591.744
1.000	1.733	-24.5	10352.798	2587.201
1.050	1.642	-25.9	9816.221	2582.722
1.100	1.557	-27.2	9320.708	2578.309
1.150	1.479	-28.4	8862.334	2573.966
1.200	1.407	-29.7	8437.437	2569.693
1.250	1.340	-30.8	8041.944	2565.481
1.300	1.277	-32.0	7673.370	2561.333
1.350	1.219	-33.1	7330.001	2557.256
1.400	1.164	-34.1	7009.746	2553.254
1.450	1.113	-35.2	6710.411	2549.323
1.500	1.066	-36.2	6430.194	2545.462
1.550	1.021	-37.1	6167.541	2541.670
1.575	1.000	-37.6	5979.837	2538.838
UNIT	2	SOLVED	- 'BDV-0004-COLD'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

UNIT 2, '114-BDV-0004-COLD' (Cont)

Pressure and Temperature Profiles



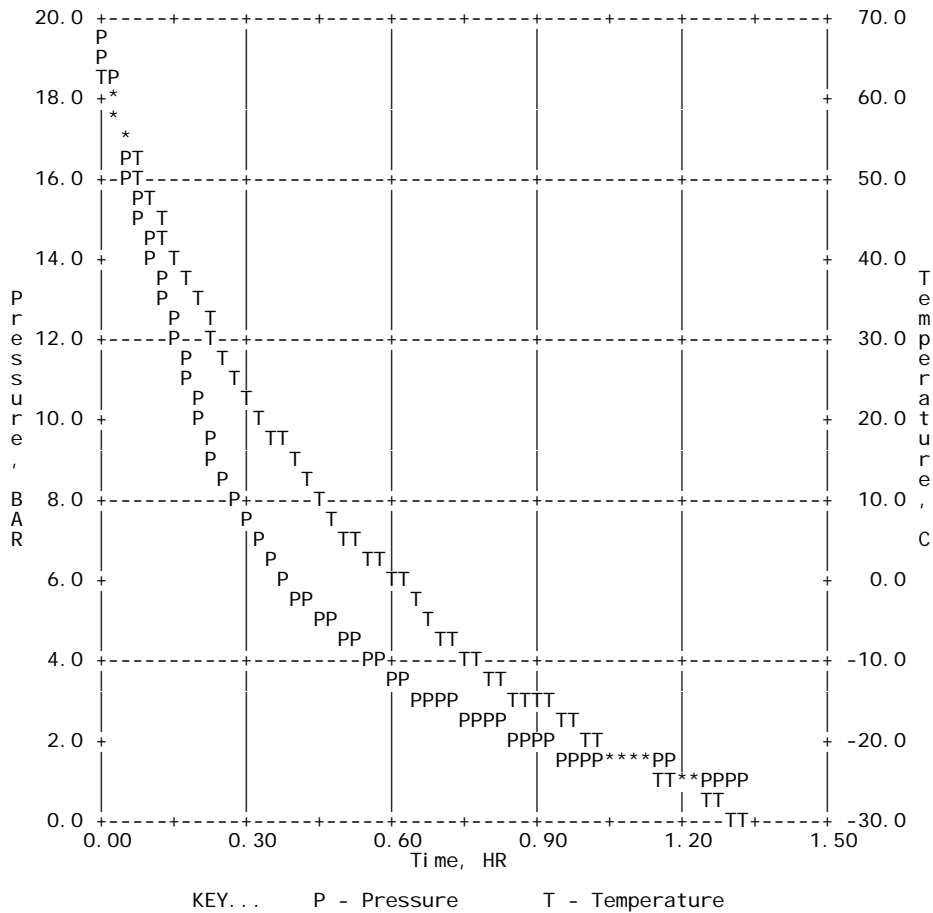
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR    M3/HR
0.000	19.673	62.0	1.101E+05    2511.953
5.0E-02	16.581	54.4	1.009E+05    2525.753
1.0E-01	14.009	47.2	84278.617    2552.106
0.150	11.905	40.6	70892.664    2570.175
0.200	10.143	34.4	60042.808    2581.934
0.250	8.691	28.7	51150.288    2588.973
0.300	7.489	23.4	43885.119    2592.368
0.350	6.493	18.5	37914.122    2593.040
0.400	5.662	14.0	32975.568    2591.693
0.450	4.966	9.9	28864.198    2588.866
0.500	4.379	6.1	25418.848    2584.969
0.550	3.882	2.5	22512.748    2580.315
0.600	3.461	-7.2E-01	20051.807    2575.072
0.650	3.099	-3.7	17953.087    2569.332
0.700	2.787	-6.5	16145.608    2563.362
0.750	2.517	-9.1	14581.346    2557.403
0.800	2.281	-11.6	13220.752    2551.485
0.850	2.075	-13.8	12031.462    2545.635
0.900	1.894	-16.0	10986.930    2539.877
0.950	1.734	-18.0	10065.353    2534.231
1.000	1.592	-19.8	9248.716    2528.709
1.050	1.466	-21.6	8522.042    2523.324
1.100	1.353	-23.2	7872.908    2518.083
1.150	1.252	-24.8	7290.855    2512.989
1.200	1.161	-26.2	6767.068    2508.045
1.250	1.079	-27.6	6294.164    2503.251
1.300	1.005	-28.9	5865.848    2498.607
1.325	0.971	-29.5	5567.365    2495.152
UNI T    3	SOLVED	-	' BDV-0004-SPERI OUS '

UNIT 3, 'BDV-0004-S' (Cont)

Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.2 BDV 0010

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-D-102									112.1	0
	<b>TOTAL</b>								145.7	0

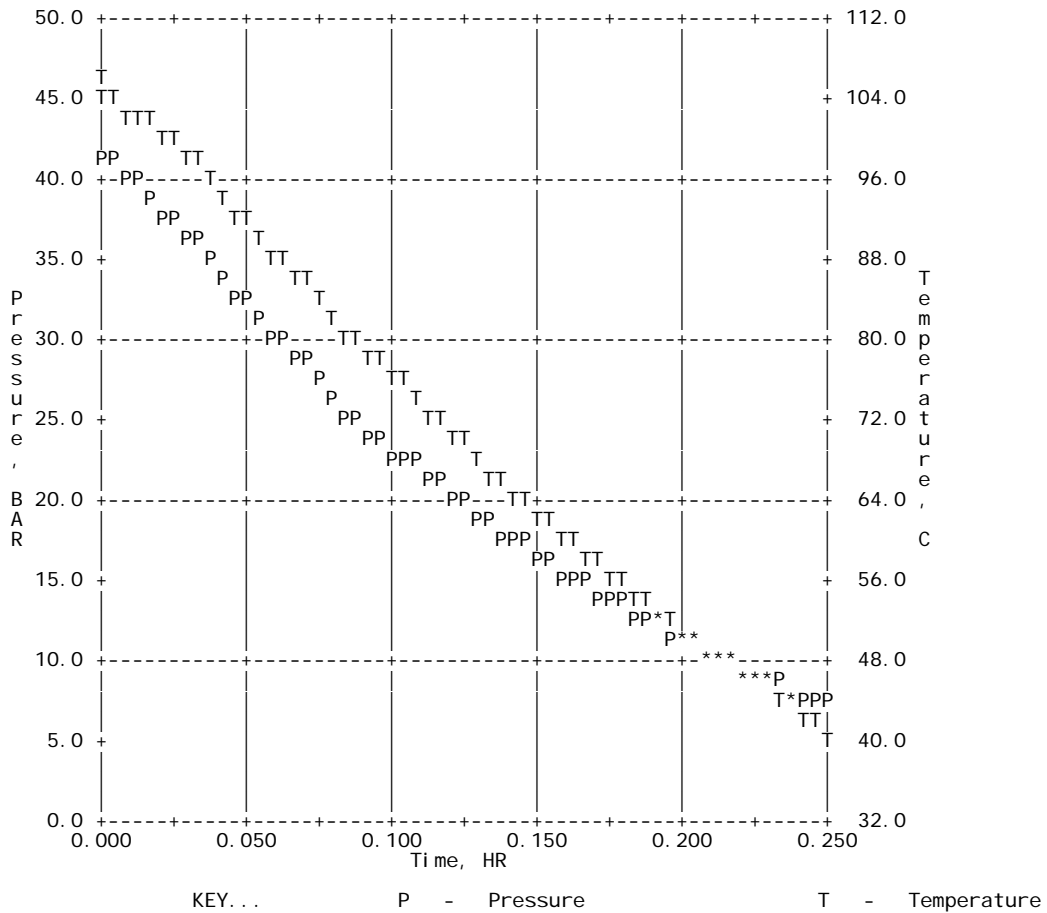
FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-D-102		112.1						176.5
	<b>TOTAL</b>	145.7						<b>229.5</b>



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE ---- M3/HR
0.000	41.800	105.1	3.464E+05	2838.351
2.3E-05	41.796	105.0	3.464E+05	2838.418
5.9E-05	41.787	105.0	3.463E+05	2838.629
1.2E-04	41.776	105.0	3.462E+05	2838.946
2.1E-04	41.759	105.0	3.460E+05	2839.400
3.6E-04	41.732	105.0	3.457E+05	2840.115
6.0E-04	41.690	104.9	3.453E+05	2841.233
9.8E-04	41.623	104.8	3.447E+05	2842.992
1.6E-03	41.517	104.7	3.436E+05	2845.771
2.5E-03	41.349	104.5	3.419E+05	2850.153
4.0E-03	41.084	104.1	3.393E+05	2856.992
6.2E-03	40.669	103.6	3.353E+05	2867.551
9.7E-03	40.023	102.7	3.291E+05	2883.596
1.5E-02	39.037	101.4	3.198E+05	2907.357
2.2E-02	37.590	99.4	3.064E+05	2940.968
3.0E-02	36.113	97.4	2.909E+05	2979.483
3.7E-02	34.607	95.2	2.757E+05	3016.364
4.5E-02	33.084	93.0	2.609E+05	3051.661
5.2E-02	31.553	90.7	2.464E+05	3085.312
6.0E-02	30.024	88.3	2.323E+05	3117.295
6.8E-02	28.502	85.8	2.187E+05	3147.619
7.6E-02	26.995	83.4	2.055E+05	3176.304
8.5E-02	25.508	80.8	1.928E+05	3203.380
9.3E-02	24.046	78.2	1.805E+05	3228.880
0.102	22.609	75.6	1.687E+05	3252.867
0.111	21.204	72.9	1.573E+05	3275.392
0.121	19.832	70.2	1.464E+05	3296.477
0.131	18.494	67.5	1.359E+05	3316.182
0.141	17.191	64.7	1.259E+05	3334.553
0.151	15.926	62.0	1.162E+05	3351.635
0.162	14.697	59.2	1.070E+05	3367.471
0.174	13.541	56.5	98199.164	3382.068
0.186	12.381	53.7	89786.447	3395.507
0.198	11.259	50.8	81584.401	3407.886
0.212	10.172	48.0	73717.797	3419.126
0.226	9.119	45.2	66161.592	3429.234
0.242	8.098	42.4	58896.313	3438.174
0.250	7.589	41.0	53565.676	3444.408
UNIT	1	SOLVED	- ' 114-BDV-0010-FIRE	'

UNIT 1, '114-BDV-0010-FIRE', '114-BDV-0010-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

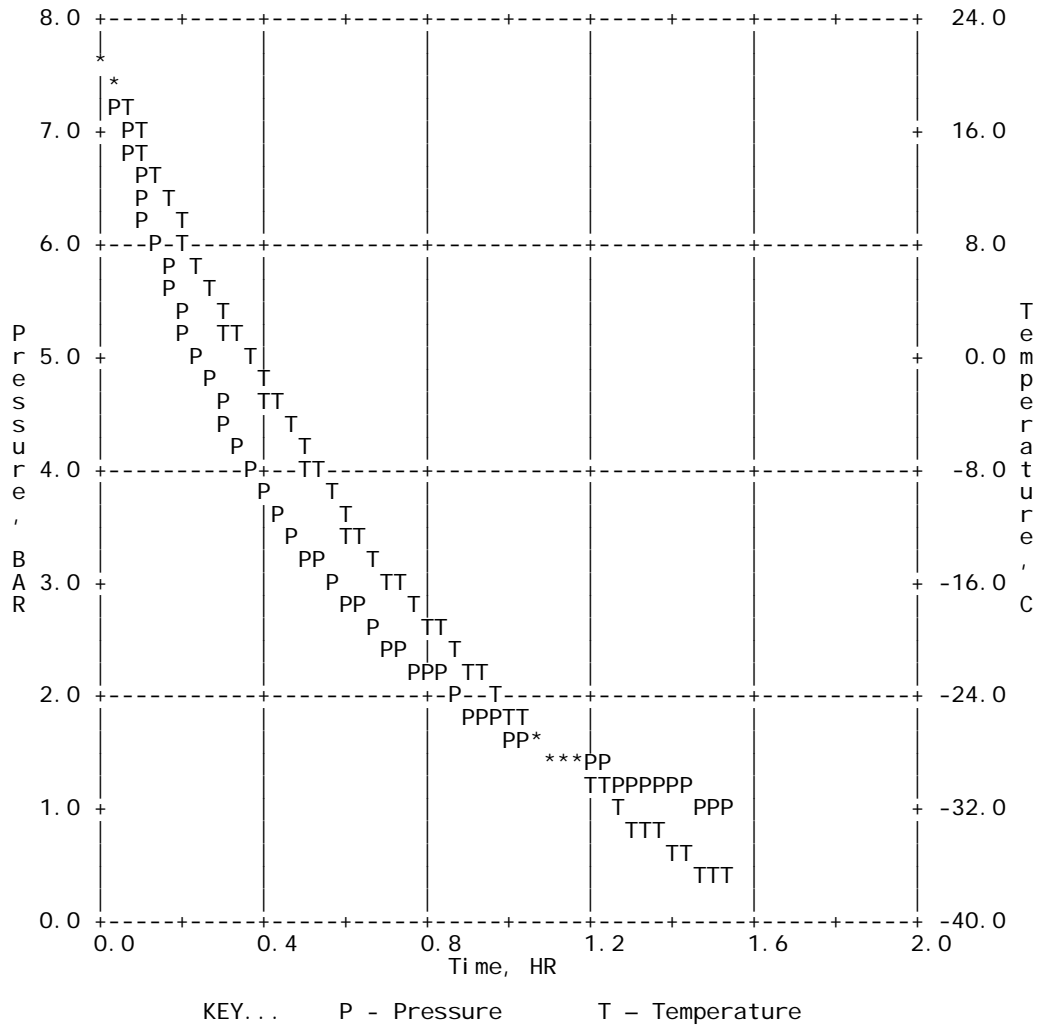
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	7.685	21.0	54217.271	3334.154
5.0E-02	6.943	17.3	51605.846	3333.859
1.0E-01	6.292	13.9	46709.414	3332.625
0.150	5.720	10.6	42423.309	3330.226
0.200	5.216	7.5	38662.624	3326.898
0.250	4.770	4.6	35346.054	3322.824
0.300	4.375	1.9	32413.998	3318.167
0.350	4.027	-7.5E-01	29827.252	3312.982
0.400	3.714	-3.2	27527.302	3307.297
0.450	3.434	-5.6	25464.655	3301.336
0.500	3.183	-7.8	23616.535	3295.289
0.550	2.957	-10.0	21956.275	3289.184
0.600	2.754	-12.0	20460.070	3283.040
0.650	2.570	-14.0	19107.804	3276.881
0.700	2.403	-15.8	17882.612	3270.727
0.750	2.252	-17.6	16769.974	3264.599
0.800	2.114	-19.3	15755.997	3258.504
0.850	1.988	-20.9	14830.733	3252.463
0.900	1.872	-22.4	13984.537	3246.489
0.950	1.767	-23.9	13207.904	3240.580
1.000	1.670	-25.4	12494.657	3234.753
1.050	1.580	-26.7	11838.265	3229.015
1.100	1.498	-28.1	11232.270	3223.362
1.150	1.422	-29.3	10671.682	3217.796
1.200	1.351	-30.6	10152.415	3212.322
1.250	1.286	-31.8	9670.276	3206.940
1.300	1.225	-32.9	9221.885	3201.648
1.350	1.168	-34.0	8804.580	3196.454
1.400	1.115	-35.1	8415.506	3191.356
1.450	1.066	-36.1	8052.142	3186.351
1.500	1.020	-37.1	7712.281	3181.439
1.525	0.998	-37.6	7469.710	3177.770
UNIT	2	SOLVED	- ' 114-BDV-0010-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

UNIT 2, ' 114-BDV-0010-COLD', ' 114-BDV-0010-COLD' (Cont)



Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	19.633	62.0	1.421E+05	3250.693
1.8E-05	19.616	62.0	1.420E+05	3250.795
4.7E-05	19.616	62.0	1.419E+05	3250.899
7.8E-05	19.614	62.0	1.419E+05	3250.912
1.1E-04	19.611	61.9	1.419E+05	3250.943
1.6E-04	19.610	61.9	1.419E+05	3250.975
2.1E-04	19.601	61.9	1.419E+05	3251.040
2.5E-04	19.589	61.9	1.418E+05	3251.167
3.2E-04	19.585	61.9	1.417E+05	3251.270
3.9E-04	19.579	61.9	1.417E+05	3251.337
4.4E-04	19.575	61.9	1.416E+05	3251.404
5.4E-04	19.569	61.8	1.416E+05	3251.477
6.4E-04	19.561	61.8	1.415E+05	3251.573
7.6E-04	19.552	61.8	1.415E+05	3251.686
9.0E-04	19.543	61.8	1.414E+05	3251.813
1.1E-03	19.532	61.8	1.413E+05	3251.951
1.2E-03	19.520	61.7	1.412E+05	3252.109
1.4E-03	19.505	61.7	1.411E+05	3252.292
1.7E-03	19.490	61.7	1.410E+05	3252.497
1.9E-03	19.472	61.6	1.409E+05	3252.725
2.2E-03	19.453	61.6	1.407E+05	3252.977
2.6E-03	19.430	61.5	1.406E+05	3253.269
3.0E-03	19.401	61.5	1.404E+05	3253.621
3.4E-03	19.369	61.4	1.401E+05	3254.027
3.9E-03	19.334	61.3	1.399E+05	3254.482
4.5E-03	19.296	61.2	1.396E+05	3254.983
5.1E-03	19.250	61.1	1.393E+05	3255.554
5.8E-03	19.197	61.0	1.389E+05	3256.214
6.7E-03	19.136	60.8	1.384E+05	3256.974
7.6E-03	19.069	60.7	1.379E+05	3257.831
8.7E-03	18.992	60.5	1.374E+05	3258.791
9.9E-03	18.905	60.3	1.367E+05	3259.880
1.1E-02	18.806	60.0	1.360E+05	3261.104
1.3E-02	18.695	59.8	1.352E+05	3262.476
1.5E-02	18.571	59.5	1.343E+05	3264.009
1.7E-02	18.432	59.1	1.333E+05	3265.717
1.9E-02	18.278	58.8	1.321E+05	3267.606
2.1E-02	18.103	58.3	1.309E+05	3269.705
2.4E-02	17.910	57.9	1.295E+05	3272.026
2.7E-02	17.697	57.3	1.279E+05	3274.566
3.1E-02	17.462	56.7	1.262E+05	3277.339
3.5E-02	17.204	56.1	1.243E+05	3280.354
3.9E-02	16.921	55.3	1.222E+05	3283.612
4.4E-02	16.612	54.5	1.200E+05	3287.112
5.0E-02	16.277	53.6	1.175E+05	3290.848
5.6E-02	15.916	52.7	1.149E+05	3294.801
6.2E-02	15.529	51.6	1.121E+05	3298.948
7.0E-02	15.117	50.5	1.091E+05	3303.256
7.7E-02	14.681	49.2	1.060E+05	3307.692
8.6E-02	14.223	47.9	1.026E+05	3312.211
9.5E-02	13.774	46.6	99281.253	3316.656
0.105	13.276	45.0	95797.529	3321.085
0.116	12.764	43.4	92096.679	3325.559
0.128	12.242	41.7	88324.735	3329.882
0.140	11.712	40.0	84504.307	3333.998
0.153	11.178	38.1	80658.145	3337.849
0.167	10.643	36.2	76809.834	3341.379
0.182	10.113	34.3	72990.217	3344.535
0.197	9.589	32.2	69225.664	3347.271
0.213	9.076	30.2	65536.421	3349.553
0.230	8.575	28.1	61944.025	3351.354

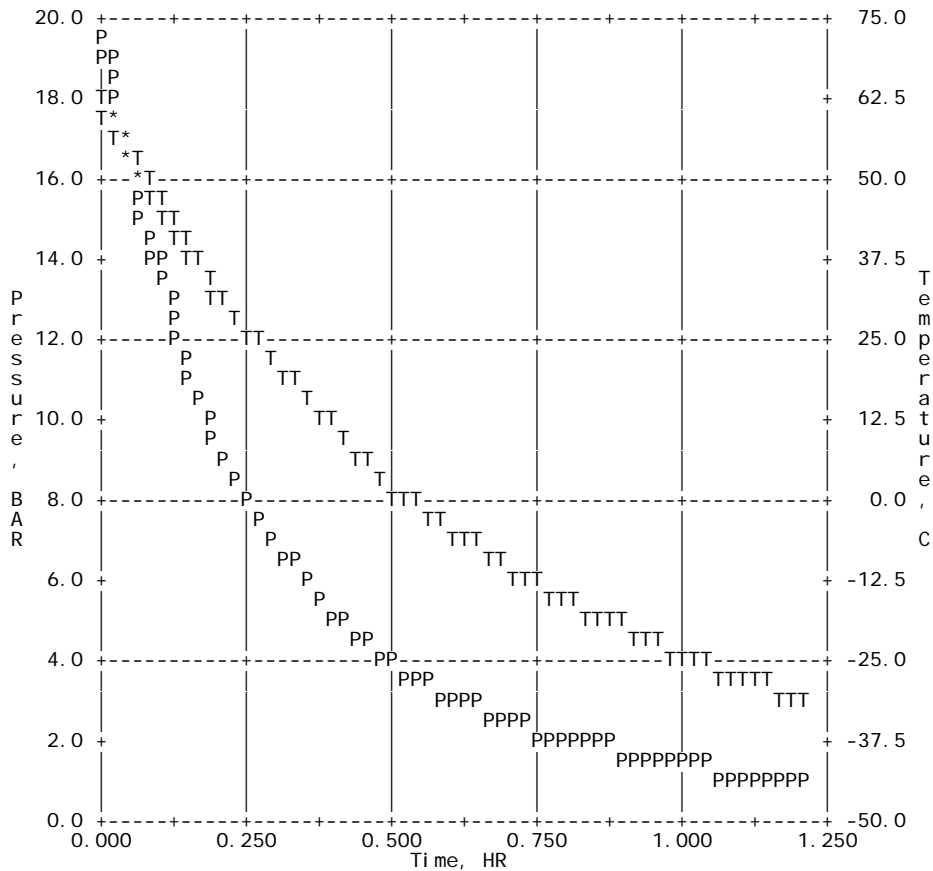
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

0. 248	8. 090	26. 0	58463. 170	3352. 656
0. 266	7. 622	23. 9	55107. 180	3353. 449
0. 285	7. 173	21. 7	51886. 589	3353. 734
0. 304	6. 744	19. 6	48809. 282	3353. 515
0. 324	6. 336	17. 5	45883. 162	3352. 810
0. 345	5. 948	15. 4	43107. 073	3351. 634
0. 367	5. 581	13. 3	40478. 611	3350. 007
0. 389	5. 236	11. 2	37999. 948	3347. 959
0. 411	4. 910	9. 2	35667. 994	3345. 518
0. 434	4. 605	7. 2	33478. 734	3342. 716
0. 458	4. 319	5. 3	31427. 321	3339. 586
0. 481	4. 051	3. 3	29507. 951	3336. 158
0. 506	3. 801	1. 5	27714. 381	3332. 466
0. 531	3. 570	-3. 6E-01	26047. 541	3328. 481
0. 556	3. 353	-2. 1	24494. 931	3324. 153
0. 582	3. 151	-3. 9	23041. 750	3319. 601
0. 608	2. 962	-5. 6	21687. 696	3314. 974
0. 634	2. 787	-7. 2	20425. 449	3310. 276
0. 661	2. 623	-8. 8	19248. 177	3305. 511
0. 688	2. 471	-10. 4	18151. 230	3300. 697
0. 716	2. 329	-11. 9	17128. 888	3295. 844
0. 743	2. 197	-13. 4	16175. 859	3290. 962
0. 772	2. 074	-14. 8	15287. 197	3286. 063
0. 800	1. 959	-16. 2	14458. 264	3281. 156
0. 829	1. 853	-17. 5	13684. 702	3276. 251
0. 858	1. 753	-18. 8	12962. 471	3271. 356
0. 887	1. 660	-20. 1	12287. 829	3266. 482
0. 916	1. 573	-21. 3	11657. 280	3261. 633
0. 946	1. 492	-22. 5	11067. 568	3256. 819
0. 976	1. 416	-23. 7	10515. 693	3252. 043
1. 006	1. 345	-24. 8	9998. 891	3247. 312
1. 037	1. 278	-25. 9	9514. 613	3242. 630
1. 068	1. 216	-26. 9	9060. 402	3238. 001
1. 098	1. 158	-28. 0	8634. 062	3233. 426
1. 129	1. 103	-29. 0	8233. 654	3228. 910
1. 161	1. 051	-29. 9	7857. 315	3224. 456
1. 192	1. 003	-30. 9	7503. 331	3220. 065
1. 208	0. 980	-31. 3	7249. 641	3216. 771
UNI T 3	SOLVED	-	' 114-BDV-0010-SPURIOUS '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

UNIT 3, ' 114-BDV-0010-SPURIOUS', ' 114-BDV-0010-SPURIOUS' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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### 5.12.3 BDV 0012

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-D-103									84.9	0
	<b>TOTAL</b>								110.4	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-D-103		84.9						127.9
	<b>TOTAL</b>	110.4						<b>166.3</b>

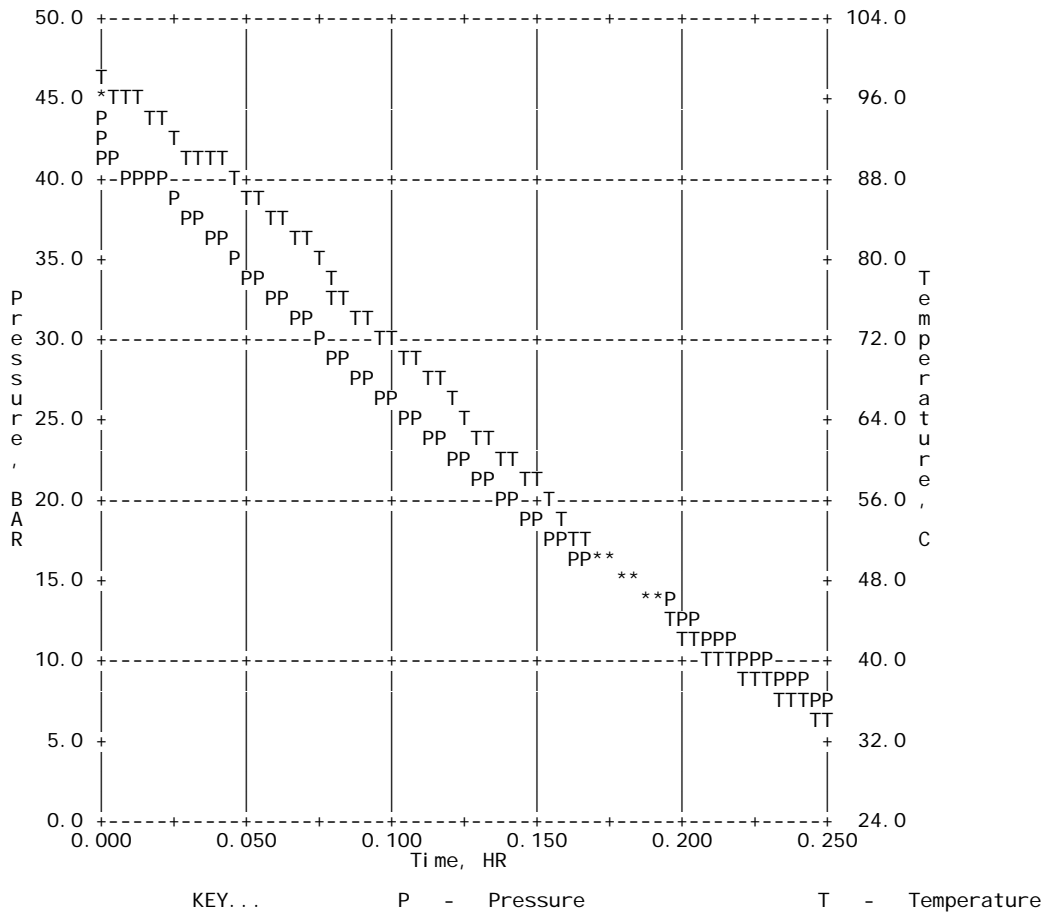
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>


\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE ---- M3/HR
0.000	41.800	96.9	2.741E+05	1980.828
1.0E-06	41.823	96.9	2.741E+05	1981.096
2.8E-04	45.174	98.7	2.796E+05	2020.662
5.6E-04	41.822	96.9	2.797E+05	2020.088
9.0E-04	41.780	96.8	2.741E+05	1980.933
1.5E-03	41.711	96.7	2.734E+05	1982.781
2.4E-03	41.567	96.6	2.722E+05	1987.062
3.9E-03	41.397	96.3	2.704E+05	1992.626
6.2E-03	41.097	95.9	2.679E+05	1999.475
1.0E-02	40.564	95.2	2.636E+05	2011.840
1.6E-02	39.682	93.9	2.564E+05	2032.695
2.3E-02	38.613	92.4	2.468E+05	2059.860
3.0E-02	37.484	90.8	2.366E+05	2088.408
3.7E-02	36.299	89.1	2.264E+05	2116.290
4.4E-02	35.072	87.2	2.162E+05	2143.352
5.1E-02	33.814	85.3	2.062E+05	2169.421
5.9E-02	32.535	83.3	1.963E+05	2194.401
6.6E-02	31.243	81.2	1.867E+05	2218.240
7.3E-02	29.948	79.0	1.773E+05	2240.911
8.1E-02	28.656	76.8	1.682E+05	2262.413
8.8E-02	27.372	74.5	1.594E+05	2282.764
9.6E-02	26.101	72.2	1.508E+05	2301.988
0.103	24.847	69.8	1.426E+05	2320.124
0.111	23.615	67.4	1.347E+05	2337.203
0.119	22.405	65.0	1.270E+05	2353.270
0.128	21.219	62.6	1.196E+05	2368.392
0.136	20.059	60.1	1.125E+05	2382.616
0.145	18.926	57.6	1.057E+05	2396.001
0.153	17.817	55.1	99062.404	2408.625
0.162	16.733	52.6	92690.555	2420.580
0.172	15.670	50.1	86523.183	2431.979
0.181	14.621	47.5	80520.236	2442.989
0.191	13.632	45.3	74772.235	2453.751
0.201	12.576	42.8	69050.355	2464.693
0.212	11.491	40.5	63110.033	2476.450
0.223	10.340	38.2	56947.614	2489.556
0.235	9.072	36.2	50327.593	2504.891
0.249	7.641	34.5	43019.977	2522.971
UNIT	1	SOLVED	- ' 114-BDV-0012-FI RE	'

UNIT 1, '114-BDV-0012-FIRE', '114-BDV-0012-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

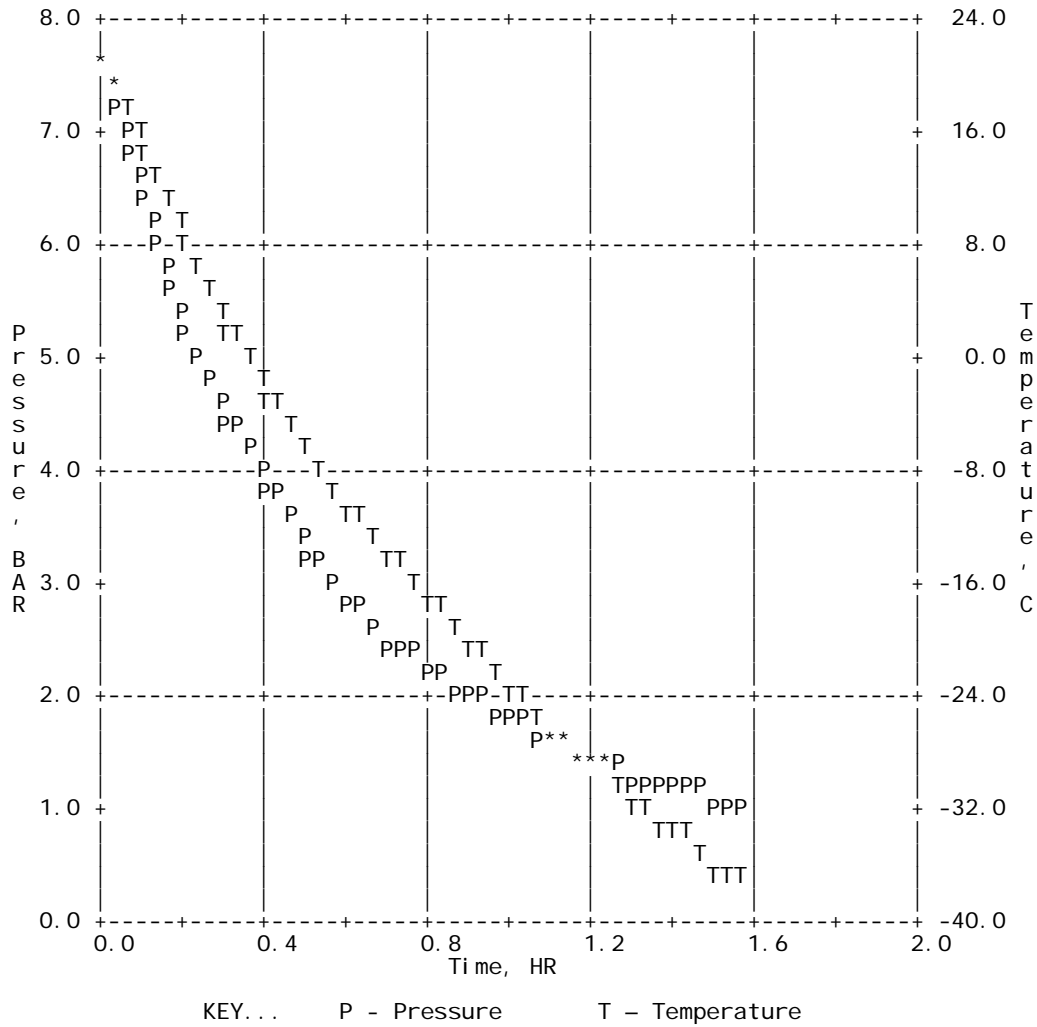
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	7.685	21.0	40243.748	2474.836
5.0E-02	6.965	17.5	38360.594	2474.635
1.0E-01	6.330	14.1	34824.172	2473.781
0.150	5.770	10.9	31717.354	2472.109
0.200	5.274	7.9	28978.376	2469.775
0.250	4.836	5.1	26557.125	2466.913
0.300	4.446	2.4	24413.827	2463.640
0.350	4.101	-1.7E-01	22513.544	2460.010
0.400	3.790	-2.6	20817.668	2456.002
0.450	3.510	-4.9	19293.928	2451.746
0.500	3.260	-7.1	17924.703	2447.428
0.550	3.033	-9.2	16690.848	2443.060
0.600	2.829	-11.2	15575.772	2438.659
0.650	2.643	-13.1	14566.293	2434.244
0.700	2.475	-15.0	13650.040	2429.829
0.750	2.322	-16.7	12815.772	2425.424
0.800	2.182	-18.4	12054.670	2421.042
0.850	2.054	-20.0	11358.567	2416.690
0.900	1.937	-21.5	10720.561	2412.379
0.950	1.829	-23.0	10134.876	2408.116
1.000	1.730	-24.4	9596.110	2403.907
1.050	1.639	-25.8	9099.145	2399.754
1.100	1.555	-27.1	8640.259	2395.663
1.150	1.477	-28.4	8215.992	2391.640
1.200	1.405	-29.6	7822.086	2387.675
1.250	1.338	-30.8	7455.597	2383.770
1.300	1.275	-31.9	7114.425	2379.927
1.350	1.217	-33.0	6796.288	2376.148
1.400	1.163	-34.1	6499.371	2372.436
1.450	1.112	-35.1	6221.842	2368.789
1.500	1.064	-36.1	5962.054	2365.208
1.550	1.020	-37.1	5718.547	2361.692
1.575	0.999	-37.5	5544.498	2359.065
UNIT	2	SOLVED	- ' 114-BDV-0012-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, ' 114-BDV-0012-COLD', ' 114-BDV-0012-COLD' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

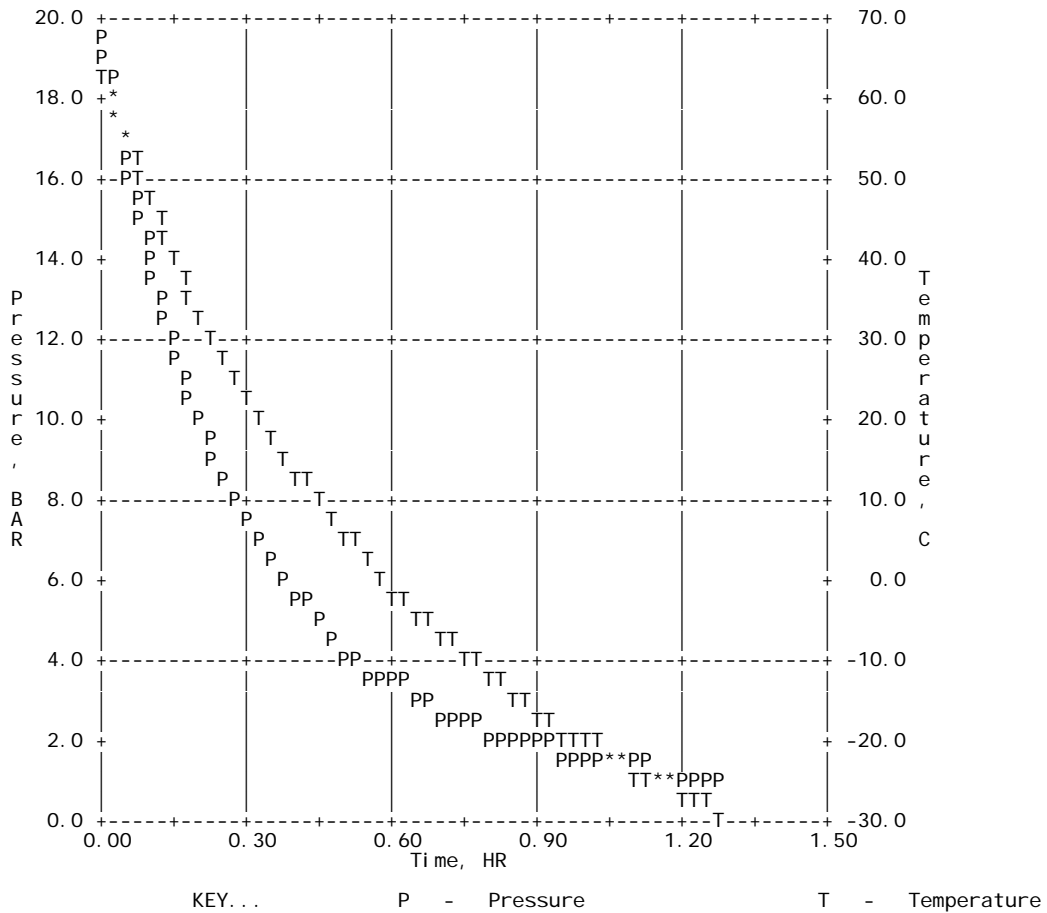
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	19.633	62.0	1.054E+05	2412.885
5.0E-02	16.449	54.1	96359.053	2426.433
1.0E-01	13.819	46.8	79982.033	2452.280
0.150	11.682	40.0	66908.421	2469.739
0.200	9.905	33.6	56384.969	2480.874
0.250	8.449	27.8	47817.978	2487.319
0.300	7.253	22.4	40860.717	2490.192
0.350	6.265	17.5	35173.927	2490.426
0.400	5.446	13.0	30493.625	2488.728
0.450	4.763	8.8	26614.440	2485.635
0.500	4.189	5.0	23376.479	2481.552
0.550	3.705	1.4	20654.855	2476.780
0.600	3.296	-1.8	18358.092	2471.423
0.650	2.945	-4.8	16404.154	2465.643
0.700	2.644	-7.6	14724.221	2459.766
0.750	2.383	-10.2	13273.803	2453.920
0.800	2.156	-12.6	12014.748	2448.134
0.850	1.958	-14.8	10916.086	2442.436
0.900	1.784	-16.9	9952.562	2436.845
0.950	1.631	-18.9	9103.542	2431.380
1.000	1.496	-20.7	8352.048	2426.053
1.050	1.375	-22.4	7684.002	2420.872
1.100	1.267	-24.0	7087.707	2415.843
1.150	1.171	-25.5	6553.434	2410.968
1.200	1.084	-27.0	6072.996	2406.248
1.250	1.006	-28.3	5639.461	2401.682
1.275	0.970	-28.9	5338.158	2398.286
UNIT	3	SOLVED	- ' 114-BDV-0012-SPURIOUS	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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UNIT 3, ' 114-BDV-0012-SPURIOUS', ' 114-BDV-0012-SPURIOUS' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.4 BDV 0013

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-D-104									60.8	0
	<b>TOTAL</b>								79.0	0



FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-D-104		60.8						52.7
	<b>TOTAL</b>	79.0						68.5



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	

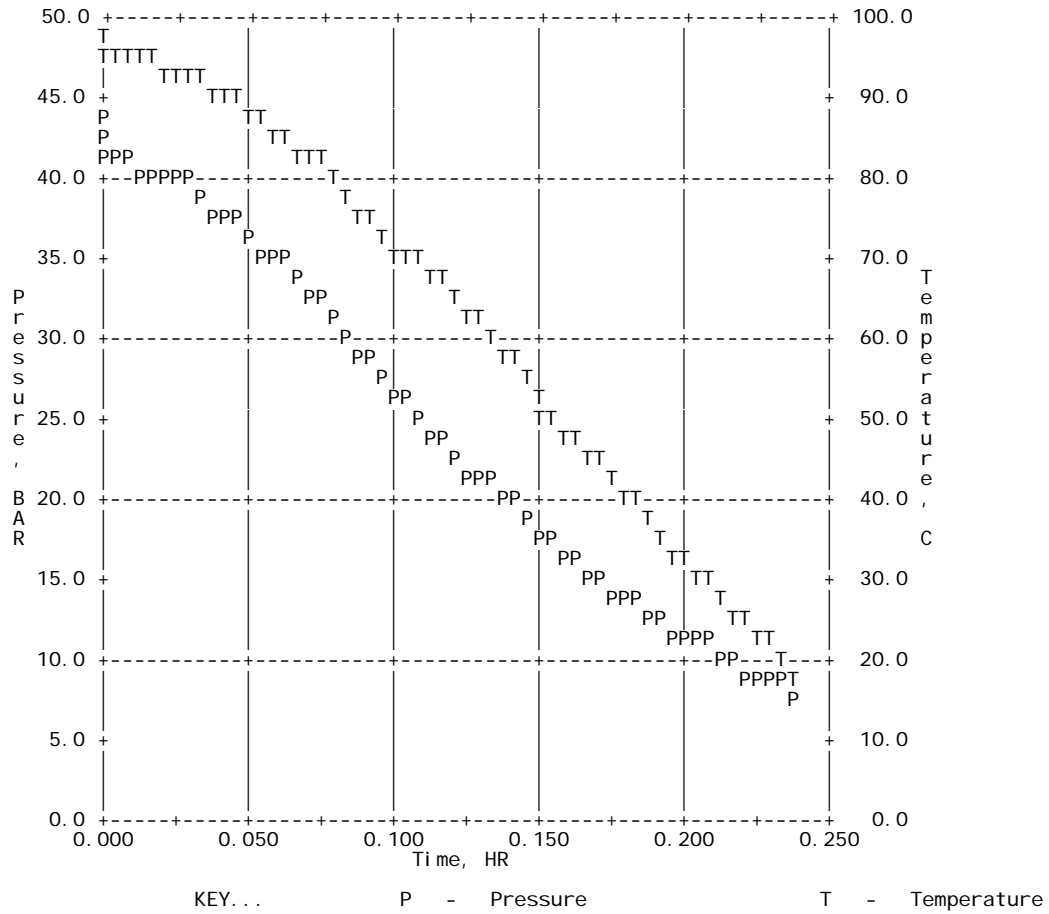
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	41.800	96.0	1.866E+05	1134.047
3.5E-06	41.819	96.0	1.866E+05	1134.175
2.8E-04	42.918	96.9	1.879E+05	1141.733
5.6E-04	43.380	97.3	1.896E+05	1152.200
8.4E-04	41.992	96.2	1.886E+05	1145.998
1.1E-03	41.564	95.6	1.853E+05	1141.136
2.2E-03	41.499	95.5	1.833E+05	1147.214
4.2E-03	41.370	95.4	1.822E+05	1151.502
7.8E-03	41.114	95.0	1.801E+05	1159.467
1.4E-02	40.611	94.3	1.763E+05	1173.551
2.0E-02	40.046	93.5	1.714E+05	1191.358
2.6E-02	39.427	92.6	1.664E+05	1208.723
3.2E-02	38.764	91.6	1.615E+05	1225.523
3.7E-02	38.037	90.6	1.565E+05	1241.966
4.3E-02	37.232	89.4	1.514E+05	1258.476
4.9E-02	36.342	88.0	1.460E+05	1275.208
5.4E-02	35.389	86.6	1.405E+05	1291.973
6.0E-02	34.383	85.0	1.350E+05	1308.461
6.6E-02	33.332	83.3	1.294E+05	1324.545
7.2E-02	32.243	81.5	1.239E+05	1340.161
7.7E-02	31.129	79.6	1.184E+05	1355.234
8.3E-02	29.987	77.7	1.129E+05	1369.739
8.9E-02	28.829	75.6	1.076E+05	1383.679
9.5E-02	27.659	73.4	1.024E+05	1397.018
0.101	26.489	71.2	97227.588	1409.716
0.107	25.316	68.9	92231.407	1421.771
0.113	24.149	66.6	87362.112	1433.201
0.119	22.991	64.1	82633.124	1443.986
0.125	21.842	61.6	78041.709	1454.142
0.132	20.711	59.1	73591.950	1463.671
0.138	19.598	56.4	69288.541	1472.568
0.145	18.504	53.8	65127.831	1480.848
0.152	17.432	51.0	61110.154	1488.513
0.159	16.384	48.2	57234.739	1495.568
0.166	15.363	45.3	53502.889	1502.011
0.173	14.370	42.4	49913.475	1507.844
0.181	13.404	39.4	46463.141	1513.072
0.189	12.471	36.3	43154.521	1517.688
0.197	11.569	33.2	39988.106	1521.689
0.206	10.698	30.1	36958.050	1525.078
0.215	9.862	26.8	34063.738	1527.849
0.224	9.059	23.5	31304.237	1529.998
0.234	8.292	20.1	28677.625	1531.516
0.239	7.915	18.4	26772.819	1532.311
UNIT	1	SOLVED	- ' 114-BDV-0013-FI RE	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, ' 114-BDV-0013-FIRE', ' 114-BDV-0013-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

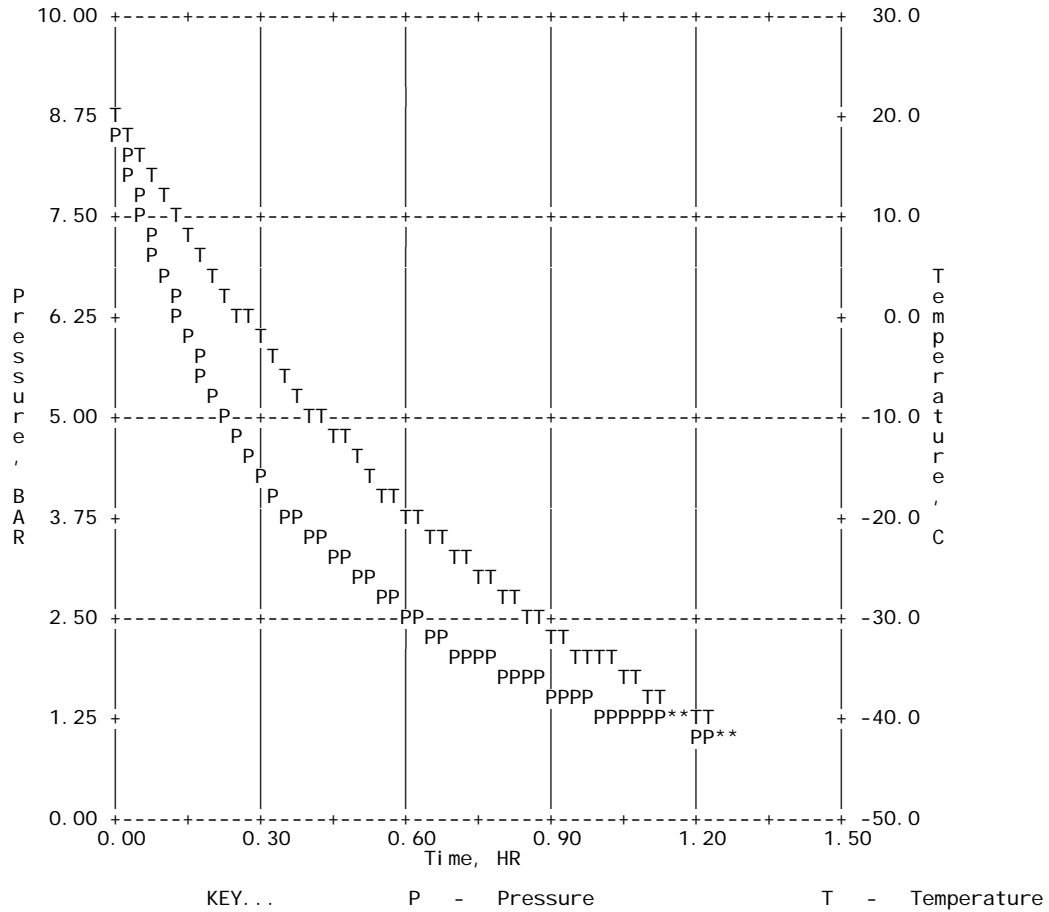
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.551	21.0	28247.124	1532.578
5.0E-02	7.552	16.4	26590.369	1532.915
1.0E-01	6.690	12.0	23514.348	1533.118
0.150	5.952	7.9	20883.768	1532.334
0.200	5.318	4.1	18635.080	1530.781
0.250	4.769	4.6E-01	16702.038	1528.635
0.300	4.291	-3.0	15026.891	1526.027
0.350	3.875	-6.2	13570.543	1523.068
0.400	3.512	-9.2	12303.423	1519.856
0.450	3.196	-12.0	11197.394	1516.468
0.500	2.917	-14.7	10227.150	1512.958
0.550	2.671	-17.2	9371.640	1509.367
0.600	2.454	-19.6	8615.434	1505.736
0.650	2.260	-21.9	7943.869	1502.088
0.700	2.088	-24.0	7345.123	1498.445
0.750	1.933	-26.1	6808.105	1494.814
0.800	1.796	-28.0	6329.193	1491.238
0.850	1.672	-29.8	5900.159	1487.727
0.900	1.559	-31.6	5510.329	1484.248
0.950	1.458	-33.3	5157.416	1480.828
1.000	1.365	-34.9	4835.553	1477.455
1.050	1.281	-36.4	4543.018	1474.152
1.100	1.205	-37.9	4278.358	1470.944
1.150	1.135	-39.3	4035.615	1467.798
1.200	1.071	-40.7	3812.474	1464.712
1.250	1.013	-42.0	3608.208	1461.707
1.275	0.985	-42.6	3464.719	1459.469
UNIT	2	SOLVED	- ' 114-BDV-0013-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0013-COLD', '114-BDV-0013-COLD' (Cont)

Pressure and Temperature Profiles



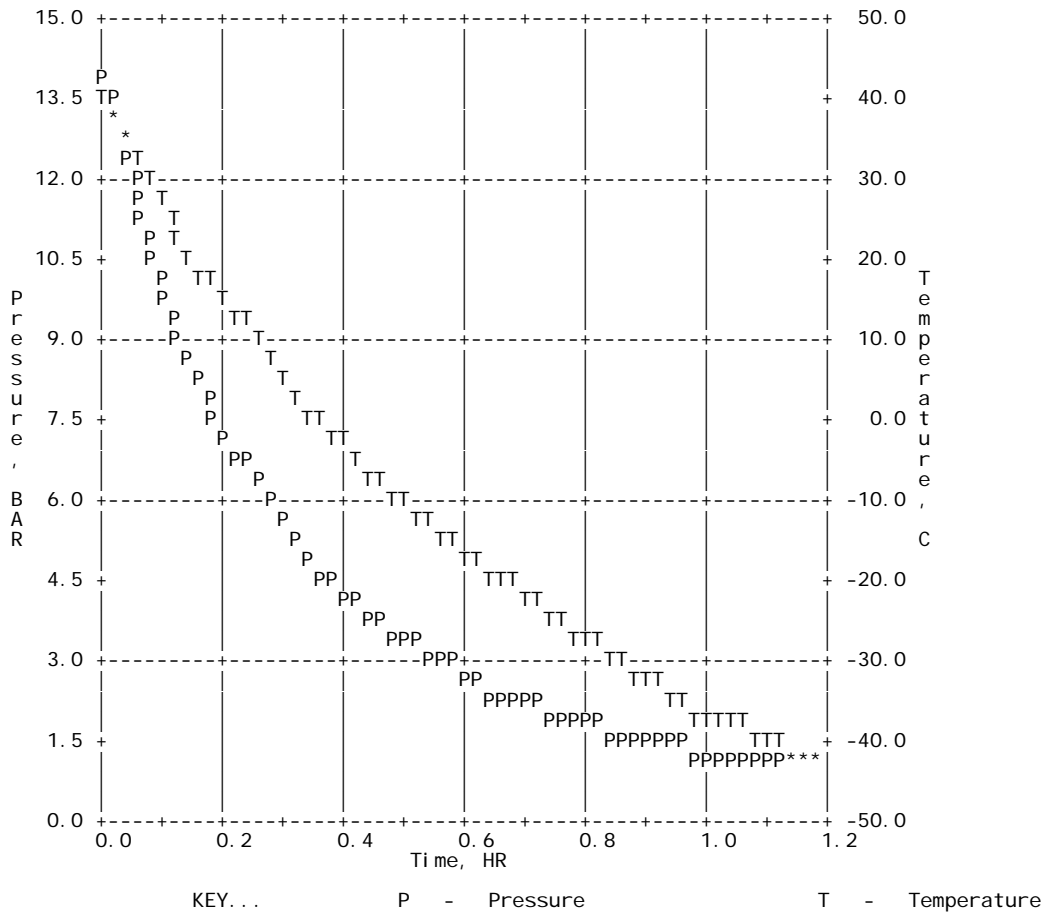
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	13. 706	40. 0	45777. 895	1515. 756
5. 0E-02	11. 643	33. 2	42221. 448	1519. 764
1. 0E-01	9. 919	26. 8	35744. 389	1526. 975
0. 150	8. 482	20. 7	30420. 591	1531. 102
0. 200	7. 292	15. 1	26047. 815	1532. 843
0. 250	6. 303	9. 9	22452. 208	1532. 770
0. 300	5. 479	5. 1	19475. 814	1531. 342
0. 350	4. 788	6. 3E-01	16998. 161	1528. 911
0. 400	4. 206	-3. 5	14922. 306	1525. 745
0. 450	3. 718	-7. 4	13177. 967	1522. 061
0. 500	3. 302	-11. 0	11705. 048	1518. 026
0. 550	2. 948	-14. 4	10450. 818	1513. 753
0. 600	2. 644	-17. 5	9378. 330	1509. 340
0. 650	2. 382	-20. 4	8455. 188	1504. 852
0. 700	2. 155	-23. 1	7655. 020	1500. 333
0. 750	1. 958	-25. 7	6959. 858	1495. 833
0. 800	1. 786	-28. 1	6354. 646	1491. 396
0. 850	1. 635	-30. 4	5823. 893	1487. 031
0. 900	1. 501	-32. 5	5353. 606	1482. 727
0. 950	1. 384	-34. 5	4938. 215	1478. 524
1. 000	1. 279	-36. 4	4571. 367	1474. 450
1. 050	1. 186	-38. 2	4243. 656	1470. 476
1. 100	1. 103	-40. 0	3950. 259	1466. 611
1. 150	1. 028	-41. 6	3686. 236	1462. 848
1. 175	0. 993	-42. 4	3503. 742	1460. 050
UNI T	3	SOLVED	- ' 114-BDV-0013-SPURIOUS '	

UNIT 3, ' 114-BDV-0013-SPURIOUS', ' 114-BDV-0013-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.5 BDV 0015

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-C-101									73.8	0
	<b>TOTAL</b>								81.2	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-C-101		73.8						43.3
	<b>TOTAL</b>	81.2						47.63

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

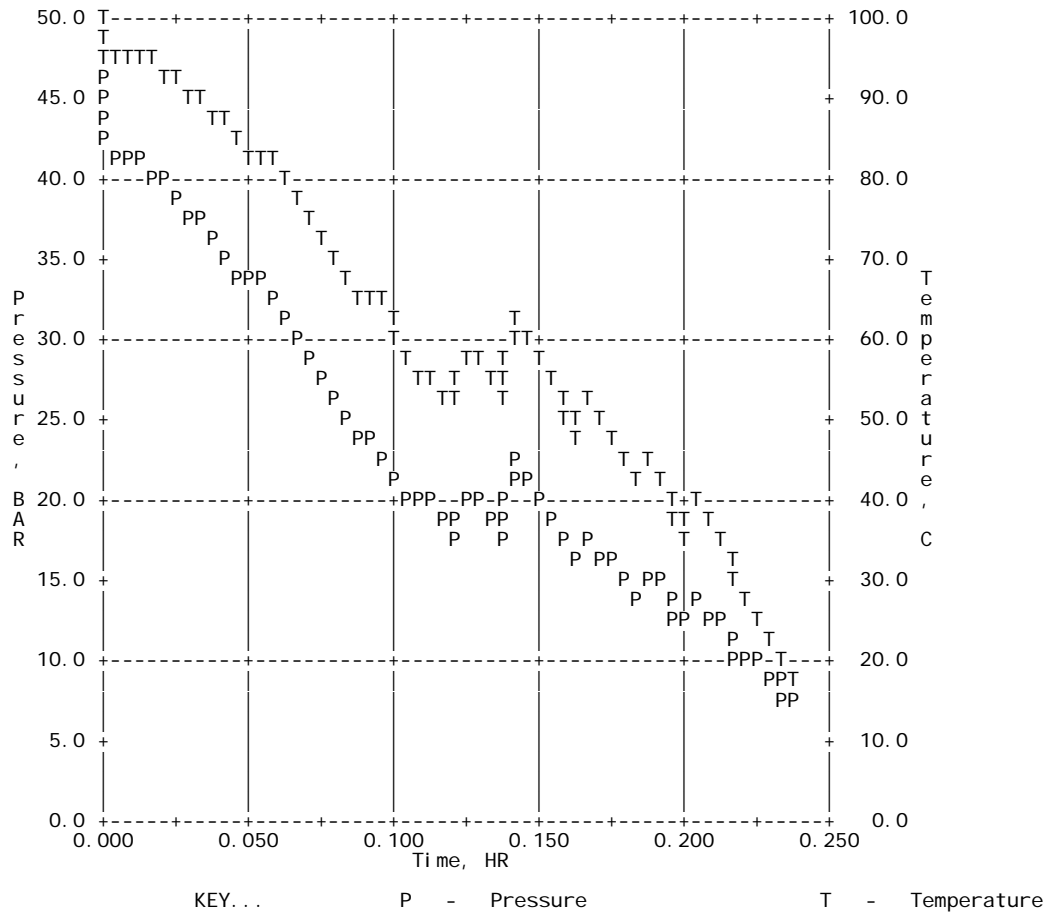
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR    M3/HR
0.000	41.800	96.1	1.843E+05    1148.017
9.8E-04	41.725	96.0	1.839E+05    1149.383
2.8E-03	41.581	95.8	1.828E+05    1153.308
6.1E-03	41.309	95.4	1.808E+05    1160.553
1.2E-02	40.787	94.7	1.771E+05    1173.593
1.8E-02	40.183	93.8	1.721E+05    1190.788
2.4E-02	39.536	92.9	1.670E+05    1208.107
3.0E-02	38.854	91.9	1.620E+05    1224.817
3.6E-02	38.113	90.9	1.570E+05    1241.159
4.2E-02	37.300	89.7	1.518E+05    1257.554
4.8E-02	36.406	88.3	1.464E+05    1274.161
5.4E-02	35.446	86.8	1.409E+05    1290.847
5.9E-02	34.447	85.3	1.353E+05    1307.215
6.5E-02	33.391	83.6	1.298E+05    1323.196
7.1E-02	32.294	81.8	1.242E+05    1338.853
7.7E-02	31.172	79.9	1.186E+05    1353.991
8.3E-02	30.027	77.9	1.132E+05    1368.542
8.9E-02	28.867	75.8	1.078E+05    1382.499
9.5E-02	27.700	73.7	1.026E+05    1395.825
0.101	26.524	71.4	97443.408    1408.536
0.107	25.351	69.1	92429.271    1420.625
0.114	24.179	66.7	87544.982    1432.083
0.120	23.024	64.3	82806.905    1442.891
0.126	21.873	61.8	78211.660    1453.058
0.133	20.738	59.2	73743.431    1462.633
0.140	19.620	56.6	69418.926    1471.584
0.147	18.528	53.9	65250.130    1479.894
0.154	17.453	51.2	61226.029    1487.584
0.161	16.405	48.3	57339.351    1494.678
0.168	15.383	45.5	53601.466    1501.151
0.176	14.388	42.5	50004.656    1507.017
0.184	13.422	39.5	46547.263    1512.279
0.192	12.488	36.5	43233.710    1516.927
0.209	10.721	30.2	37048.256    1524.363
0.218	9.884	27.0	34152.973    1527.169
0.228	9.078	23.6	31384.145    1529.360
0.238	8.308	20.3	28746.765    1530.923
0.243	7.933	18.5	26839.439    1531.749
UNIT    1	SOLVED	-	' 114-BDV-0015-FIRE '



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '114-BDV-0015-FIRE', '114-BDV-0015-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

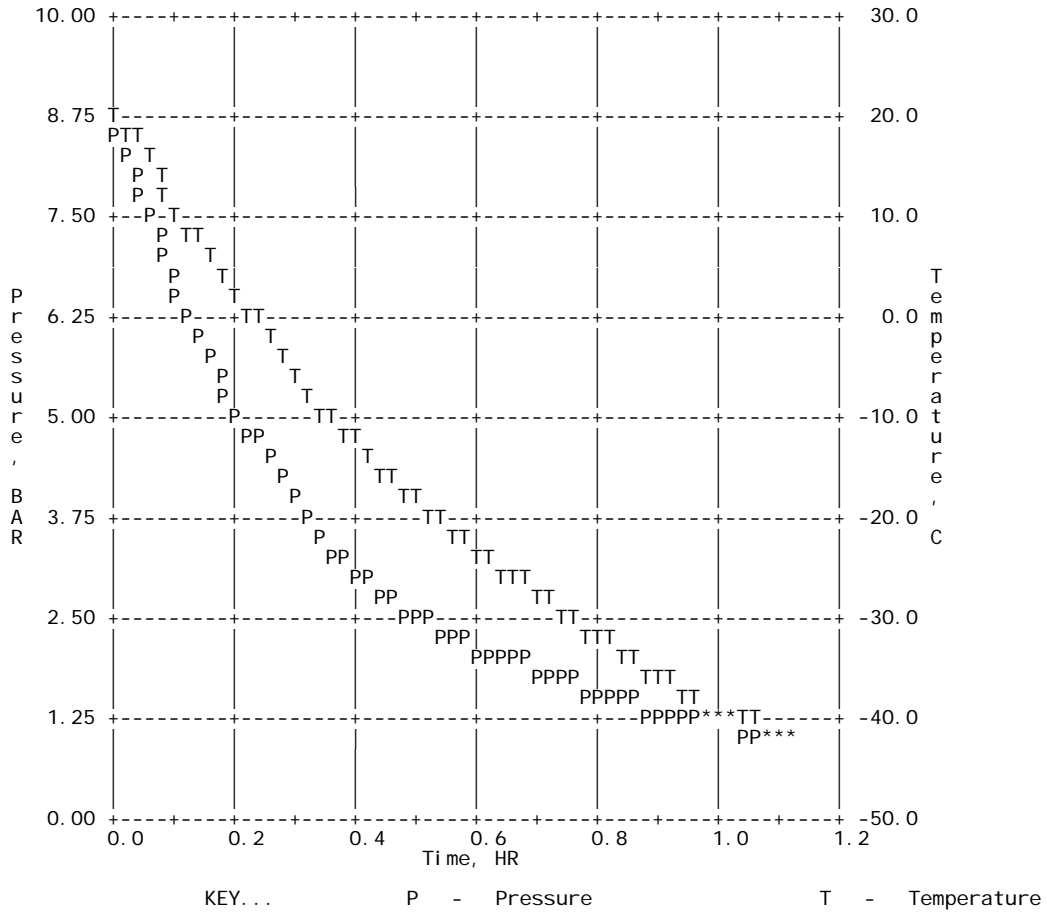
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	8.548	21.0	36381.822	1976.040
5.0E-02	7.401	15.6	33935.273	1976.375
1.0E-01	6.436	10.6	29442.294	1976.272
0.150	5.629	6.0	25693.376	1974.589
0.200	4.950	1.7	22561.364	1971.726
0.250	4.376	-2.3	19927.271	1967.886
0.300	3.894	-6.0	17712.215	1963.355
0.350	3.475	-9.5	15821.921	1958.464
0.400	3.120	-12.7	14196.289	1953.333
0.450	2.814	-15.7	12807.786	1948.096
0.500	2.552	-18.5	11613.270	1942.812
0.550	2.319	-21.2	10571.739	1937.489
0.600	2.114	-23.7	9649.332	1932.103
0.650	1.939	-26.0	8846.091	1926.797
0.700	1.782	-28.2	8142.130	1921.594
0.750	1.642	-30.3	7512.976	1916.426
0.800	1.515	-32.3	6947.470	1911.298
0.850	1.406	-34.2	6444.671	1906.288
0.900	1.308	-35.9	6001.330	1901.470
0.950	1.219	-37.6	5600.778	1896.745
1.000	1.139	-39.2	5239.186	1892.133
1.050	1.067	-40.7	4914.235	1887.671
1.100	1.002	-42.2	4619.119	1883.327
1.113	0.985	-42.6	4442.535	1880.552
UNIT	2	SOLVED	- ' 114-BDV-0015-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0015-COLD' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

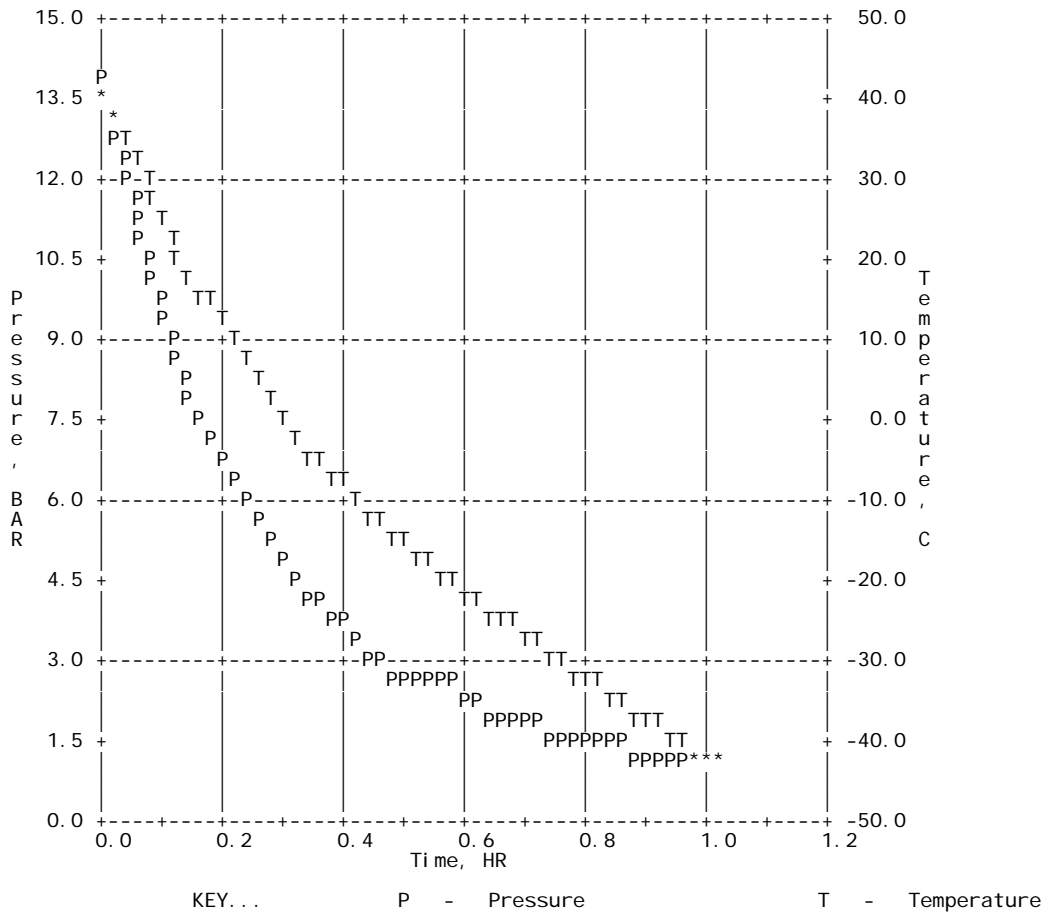
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	13.697	40.0	58894.311	1955.853
5.0E-02	11.370	32.2	53746.601	1961.157
1.0E-01	9.482	25.0	44497.470	1970.522
0.150	7.925	18.2	37059.247	1975.170
0.200	6.667	11.9	31049.572	1976.281
0.250	5.663	6.2	26255.048	1974.763
0.300	4.842	1.0	22407.271	1971.391
0.350	4.177	-3.8	19285.007	1966.593
0.400	3.625	-8.2	16730.507	1960.844
0.450	3.167	-12.2	14611.746	1954.650
0.500	2.786	-16.0	12850.607	1948.194
0.550	2.467	-19.4	11378.598	1941.607
0.600	2.201	-22.6	10145.343	1935.022
0.650	1.974	-25.5	9103.161	1928.507
0.700	1.779	-28.2	8210.274	1922.071
0.750	1.610	-30.7	7439.985	1915.744
0.800	1.462	-33.2	6765.869	1909.499
0.850	1.335	-35.4	6179.481	1903.416
0.900	1.224	-37.5	5670.895	1897.563
0.950	1.125	-39.5	5221.285	1891.863
1.000	1.038	-41.3	4821.530	1886.309
1.025	0.999	-42.2	4549.362	1882.193
UNIT	3	SOLVED	- ' 114-BDV-0015-SPURIOUS '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '114-BDV-0015-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.6 BDV 0017



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-D-105									80.4	0
	<b>TOTAL</b>								104.5	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-D-105		80.4						123.1
	<b>TOTAL</b>	104.5						<b>160.0</b>

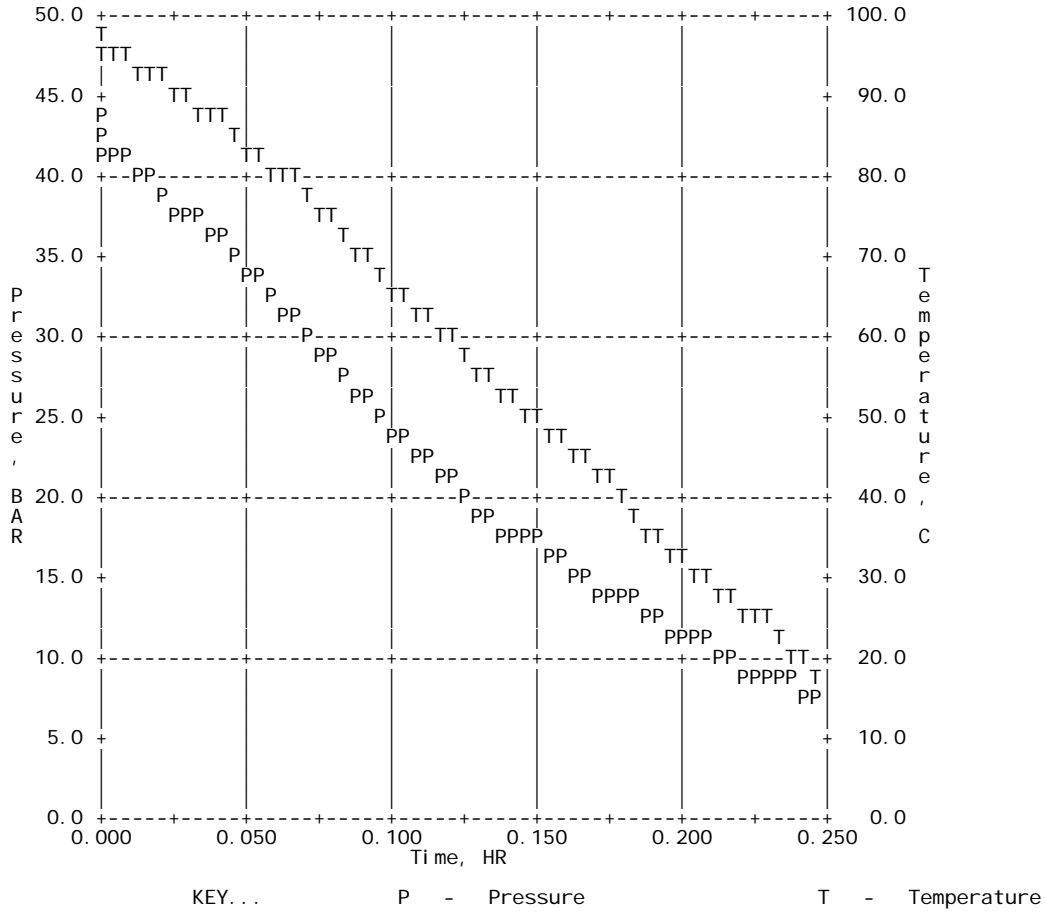
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	41.800	95.4	2.704E+05	1893.871
4.2E-06	41.852	95.4	2.705E+05	1894.457
2.8E-04	44.090	96.9	2.741E+05	1920.214
5.6E-04	41.825	95.4	2.742E+05	1919.177
9.5E-04	41.772	95.3	2.704E+05	1893.911
1.6E-03	41.686	95.2	2.696E+05	1896.341
2.9E-03	41.542	95.0	2.683E+05	1900.318
5.0E-03	41.268	94.6	2.659E+05	1907.418
8.4E-03	40.805	94.0	2.619E+05	1919.587
1.4E-02	40.031	92.9	2.553E+05	1939.101
2.0E-02	39.101	91.6	2.467E+05	1964.557
2.6E-02	38.100	90.1	2.375E+05	1991.096
3.2E-02	37.030	88.6	2.281E+05	2017.657
3.8E-02	35.911	86.9	2.186E+05	2043.730
4.4E-02	34.748	85.1	2.092E+05	2069.054
5.0E-02	33.545	83.2	1.998E+05	2093.580
5.7E-02	32.321	81.2	1.906E+05	2117.171
6.3E-02	31.071	79.1	1.815E+05	2139.782
6.9E-02	29.828	77.0	1.726E+05	2161.305
7.6E-02	28.581	74.7	1.640E+05	2181.631
8.2E-02	27.331	72.5	1.556E+05	2200.946
8.9E-02	26.099	70.1	1.475E+05	2219.183
9.5E-02	24.875	67.7	1.396E+05	2236.335
0.102	23.675	65.3	1.320E+05	2252.443
0.109	22.491	62.8	1.247E+05	2267.512
0.116	21.338	60.3	1.177E+05	2281.575
0.123	20.210	57.7	1.109E+05	2294.617
0.130	19.112	55.1	1.044E+05	2306.699
0.138	18.039	52.4	98171.199	2317.858
0.145	17.001	49.7	92186.001	2328.105
0.153	15.997	47.0	86469.478	2337.424
0.161	15.031	44.3	81015.303	2345.841
0.169	14.095	41.5	75803.777	2353.392
0.178	13.232	38.8	70921.067	2359.996
0.187	12.366	36.0	66272.615	2365.757
0.196	11.536	33.1	61750.132	2370.847
0.205	10.740	30.3	57445.423	2375.136
0.214	9.983	27.4	53361.135	2378.631
0.224	9.261	24.5	49495.431	2381.343
0.235	8.574	21.5	45833.948	2383.294
0.245	7.923	18.6	42374.541	2384.494
UNIT	1	SOLVED	- ' 114-BDV-0017-FI RE	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '114-BDV-0017-FIRE', '114-BDV-0017-FIRE' (Cont)  
Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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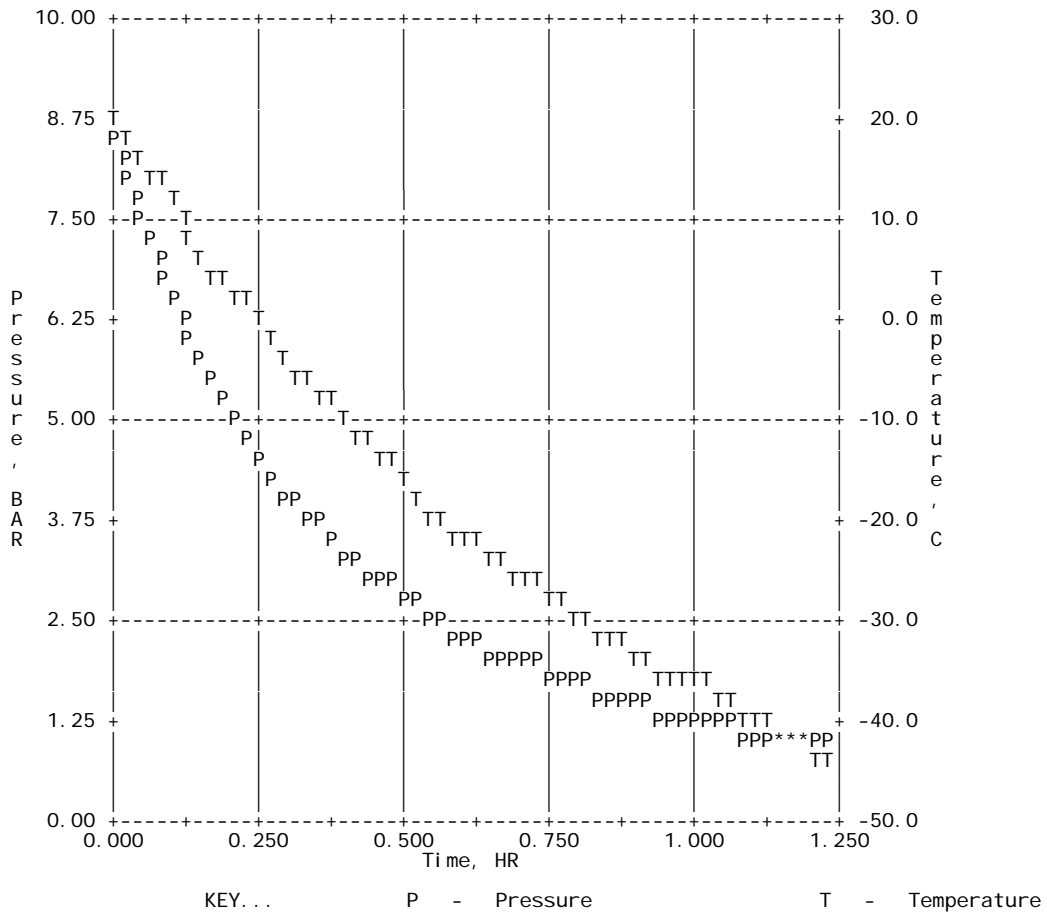
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	8.555	21.0	43945.751	2384.788
5.0E-02	7.469	16.0	41149.290	2385.201
1.0E-01	6.552	11.2	36006.291	2385.193
0.150	5.777	6.9	31684.561	2383.476
0.200	5.124	2.8	28049.843	2380.481
0.250	4.572	-9.3E-01	24989.874	2376.485
0.300	4.083	-4.5	22352.364	2371.614
0.350	3.672	-7.8	20074.193	2366.214
0.400	3.315	-10.9	18127.956	2360.615
0.450	3.005	-13.8	16437.254	2354.827
0.500	2.733	-16.6	14961.700	2348.914
0.550	2.499	-19.1	13678.541	2342.978
0.600	2.291	-21.5	12555.119	2337.061
0.650	2.106	-23.8	11553.781	2331.111
0.700	1.942	-26.0	10663.000	2325.190
0.750	1.796	-28.0	9870.484	2319.341
0.800	1.665	-29.9	9163.344	2313.587
0.850	1.548	-31.8	8527.149	2307.913
0.900	1.441	-33.5	7952.055	2302.319
0.950	1.346	-35.2	7434.161	2296.848
1.000	1.261	-36.8	6968.115	2291.527
1.050	1.183	-38.3	6546.524	2286.347
1.100	1.112	-39.8	6163.068	2281.295
1.150	1.047	-41.2	5811.337	2276.342
1.175	1.017	-41.8	5564.816	2272.646
1.225	0.961	-43.1	5339.688	2269.153
UNIT	2	SOLVED	- ' 114-BDV-0017-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0017-COLD', '114-BDV-0017-COLD' (Cont)

Pressure and Temperature Profiles



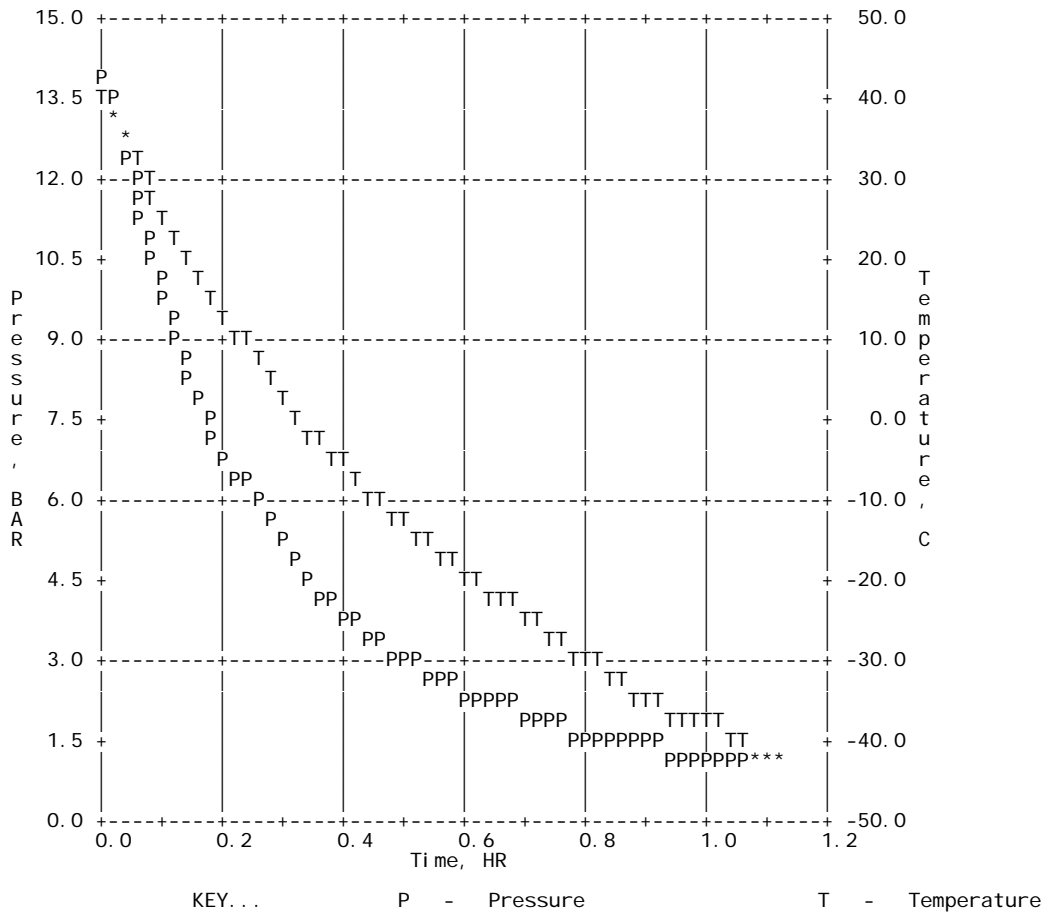
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	13.707	40.0	71139.281	2360.314
5.0E-02	11.451	32.5	65112.193	2366.583
1.0E-01	9.615	25.5	54267.204	2377.689
0.150	8.127	19.1	45595.350	2383.400
0.200	6.919	13.2	38638.910	2385.119
0.250	5.929	7.8	33011.504	2383.928
0.300	5.120	2.8	28427.677	2380.646
0.350	4.461	-1.7	24698.519	2375.816
0.400	3.907	-5.9	21626.592	2369.862
0.450	3.439	-9.8	19039.322	2363.229
0.500	3.046	-13.4	16857.714	2356.236
0.550	2.714	-16.7	15019.702	2349.056
0.600	2.432	-19.8	13458.912	2341.784
0.650	2.192	-22.7	12129.894	2334.533
0.700	1.982	-25.3	10985.471	2327.332
0.750	1.802	-27.8	9991.469	2320.205
0.800	1.645	-30.2	9127.604	2313.221
0.850	1.505	-32.4	8366.230	2306.342
0.900	1.384	-34.5	7697.018	2299.631
0.950	1.277	-36.4	7108.516	2293.131
1.000	1.180	-38.3	6582.172	2286.765
1.050	1.096	-40.0	6113.285	2280.583
1.100	1.020	-41.7	5695.929	2274.618
1.125	0.984	-42.5	5406.250	2270.156
UNIT	3	SOLVED	- ' 114-BDV-0017-SPURIOUS '	

UNIT 3, ' 114-BDV-0017-SPURIOUS', ' 114-BDV-0017-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.7 BDV 0020

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-F-101									39.0	0
	<b>TOTAL</b>								50.7	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-F-101		39.0						52.7
	<b>TOTAL</b>	50.7						<b>68.5</b>

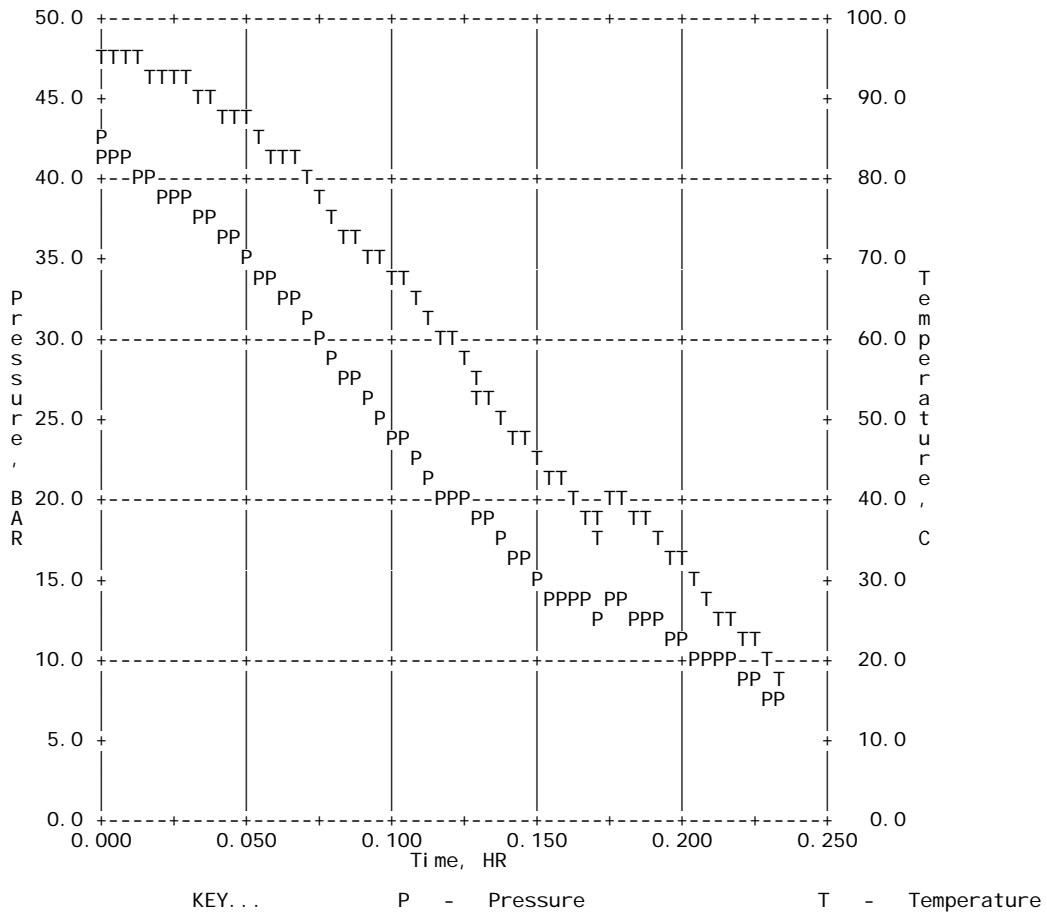
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	41.800	96.0	1.318E+05	822.048
1.5E-05	41.926	96.1	1.319E+05	822.668
2.9E-04	41.766	96.0	1.318E+05	823.124
5.8E-04	41.741	95.9	1.315E+05	823.264
1.1E-03	41.696	95.9	1.312E+05	824.140
2.0E-03	41.613	95.8	1.308E+05	825.732
3.7E-03	41.459	95.6	1.299E+05	828.630
6.8E-03	41.169	95.2	1.284E+05	833.927
1.2E-02	40.617	94.4	1.257E+05	843.400
1.8E-02	40.013	93.6	1.221E+05	855.580
2.3E-02	39.368	92.6	1.186E+05	867.567
2.8E-02	38.683	91.7	1.151E+05	879.217
3.3E-02	37.938	90.6	1.115E+05	890.697
3.8E-02	37.116	89.3	1.078E+05	902.293
4.4E-02	36.217	88.0	1.040E+05	914.070
4.9E-02	35.260	86.5	1.001E+05	925.842
5.4E-02	34.248	84.9	96097.069	937.448
5.9E-02	33.203	83.2	92140.979	948.762
6.4E-02	32.113	81.4	88204.627	959.744
6.9E-02	30.996	79.5	84286.462	970.416
7.4E-02	29.856	77.5	80419.666	980.693
8.0E-02	28.701	75.5	76615.445	990.560
8.5E-02	27.536	73.3	72886.185	999.996
9.0E-02	26.368	71.1	69240.695	1008.988
9.6E-02	25.204	68.8	65689.551	1017.523
0.101	24.038	66.4	62225.762	1025.622
0.107	22.885	64.0	58854.863	1033.286
0.112	21.743	61.5	55589.336	1040.489
0.118	20.613	58.9	52418.432	1047.260
0.124	19.509	56.3	49355.649	1053.578
0.130	18.419	53.6	46397.715	1059.450
0.136	17.352	50.8	43535.473	1064.900
0.142	16.311	48.0	40779.031	1069.909
0.149	15.294	45.2	38122.992	1074.487
0.156	14.305	42.2	35565.920	1078.637
0.162	13.347	39.3	33112.228	1082.350
0.170	12.417	36.2	30758.358	1085.630
0.177	13.882	41.0	31428.551	1084.536
0.184	12.887	37.8	32011.244	1083.819
0.190	12.015	34.9	29693.255	1086.937
0.197	11.164	31.8	27574.037	1089.484
0.204	10.342	28.8	25533.691	1091.640
0.212	9.551	25.6	23580.360	1093.390
0.219	8.792	22.4	21715.992	1094.727
0.227	8.065	19.1	19940.370	1095.644
0.231	7.709	17.5	18651.155	1096.102
UNIT	1	SOLVED	- ' 114-BDV-0020-FI RE	'

UNIT 1, '114-BDV-0020-FIRE', '114-BDV-0020-FIRE' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

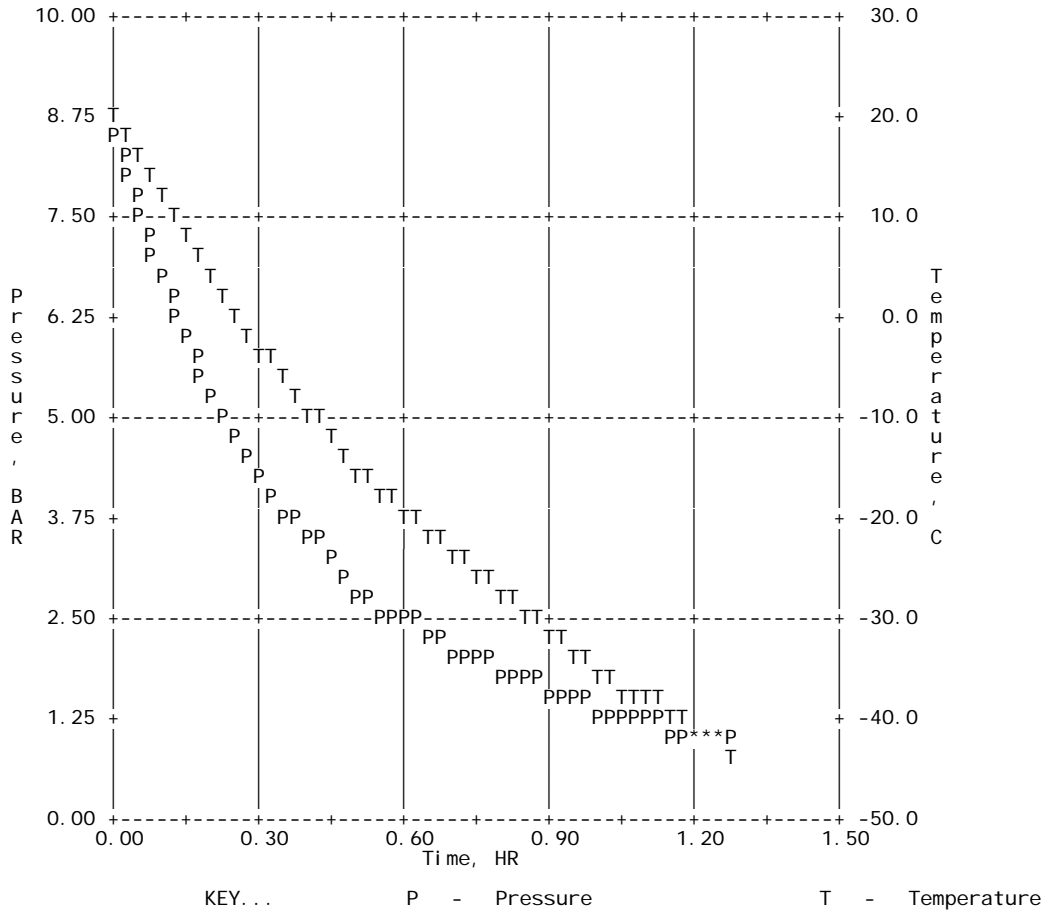
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	8.555	21.0	20213.423	1097.001
5.0E-02	7.529	16.2	18998.976	1097.197
1.0E-01	6.652	11.8	16750.692	1097.242
0.150	5.901	7.6	14836.117	1096.573
0.200	5.252	3.6	13196.449	1095.341
0.250	4.702	-2.6E-02	11796.246	1093.673
0.300	4.233	-3.4	10608.290	1091.648
0.350	3.818	-6.6	9578.041	1089.363
0.400	3.453	-9.7	8669.744	1086.926
0.450	3.138	-12.6	7878.062	1084.397
0.500	2.858	-15.3	7184.156	1081.801
0.550	2.613	-17.9	6570.850	1079.149
0.600	2.397	-20.3	6032.301	1076.489
0.650	2.205	-22.6	5554.769	1073.824
0.700	2.034	-24.8	5128.506	1071.158
0.750	1.882	-26.8	4749.978	1068.525
0.800	1.746	-28.7	4412.010	1065.931
0.850	1.625	-30.6	4108.926	1063.379
0.900	1.516	-32.3	3836.838	1060.880
0.950	1.415	-34.0	3589.096	1058.410
1.000	1.326	-35.6	3364.849	1055.991
1.050	1.245	-37.1	3162.338	1053.638
1.100	1.171	-38.6	2977.492	1051.335
1.150	1.103	-40.0	2809.111	1049.090
1.200	1.041	-41.3	2654.746	1046.896
1.225	1.012	-42.0	2545.967	1045.254
1.275	0.958	-43.2	2446.012	1043.695
UNI T	2	SOLVED	- ' 114-BDV-0020-COLD	'



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0020-COLD' (Cont)  
Pressure and Temperature Profiles



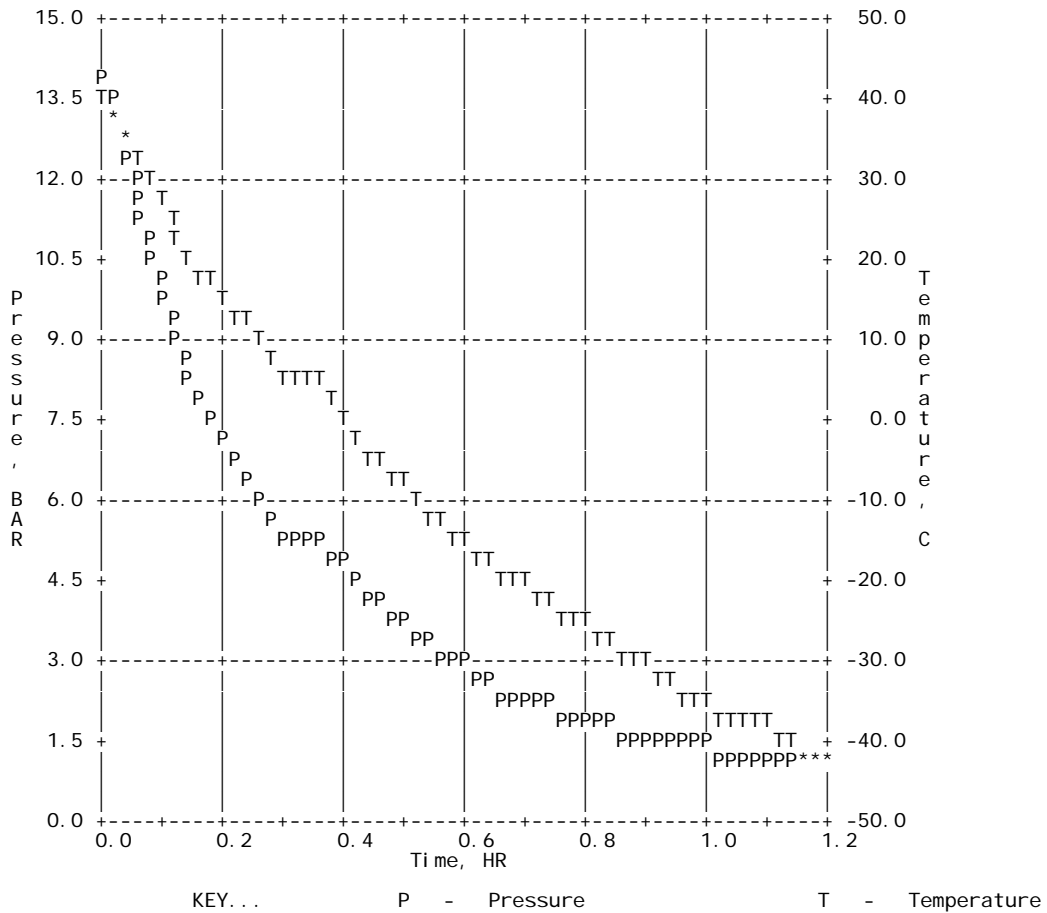
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	13.706	40.0	32721.513	1085.748
5.0E-02	11.605	33.0	30137.441	1088.486
1.0E-01	9.840	26.4	25419.152	1093.397
0.150	8.377	20.3	21538.872	1096.131
0.200	7.177	14.5	18372.835	1097.155
0.250	6.180	9.2	15781.628	1096.884
0.300	5.359	4.3	13661.791	1094.639
0.350	5.420	4.7	12759.647	1094.855
0.375	5.045	2.3	12393.439	1094.418
0.425	4.396	-2.2	11198.399	1092.642
0.475	3.848	-6.4	9803.409	1089.842
0.525	3.390	-10.2	8631.733	1086.759
0.575	3.007	-13.8	7651.698	1083.543
0.625	2.683	-17.1	6826.388	1080.253
0.675	2.407	-20.1	6124.610	1076.927
0.725	2.166	-23.0	5520.316	1073.580
0.775	1.961	-25.7	4997.575	1070.241
0.825	1.782	-28.2	4546.853	1066.962
0.875	1.624	-30.6	4151.064	1063.717
0.925	1.487	-32.8	3802.024	1060.516
0.975	1.365	-34.9	3495.722	1057.398
1.025	1.259	-36.8	3225.575	1054.366
1.075	1.164	-38.7	2986.884	1051.431
1.125	1.080	-40.4	2774.247	1048.584
1.175	1.005	-42.1	2583.674	1045.817
1.200	0.970	-42.9	2451.729	1043.751
UNIT	3	SOLVED	- ' 114-BDV-0020-SPURIOUS '	

UNIT 3, '114-BDV-0020-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.8 BDV 0022 A/B

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-C-102									44.7	0
	<b>TOTAL</b>								49.2	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-C-102		44.7						56.0
	<b>TOTAL</b>	49.2						<b>61.6</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

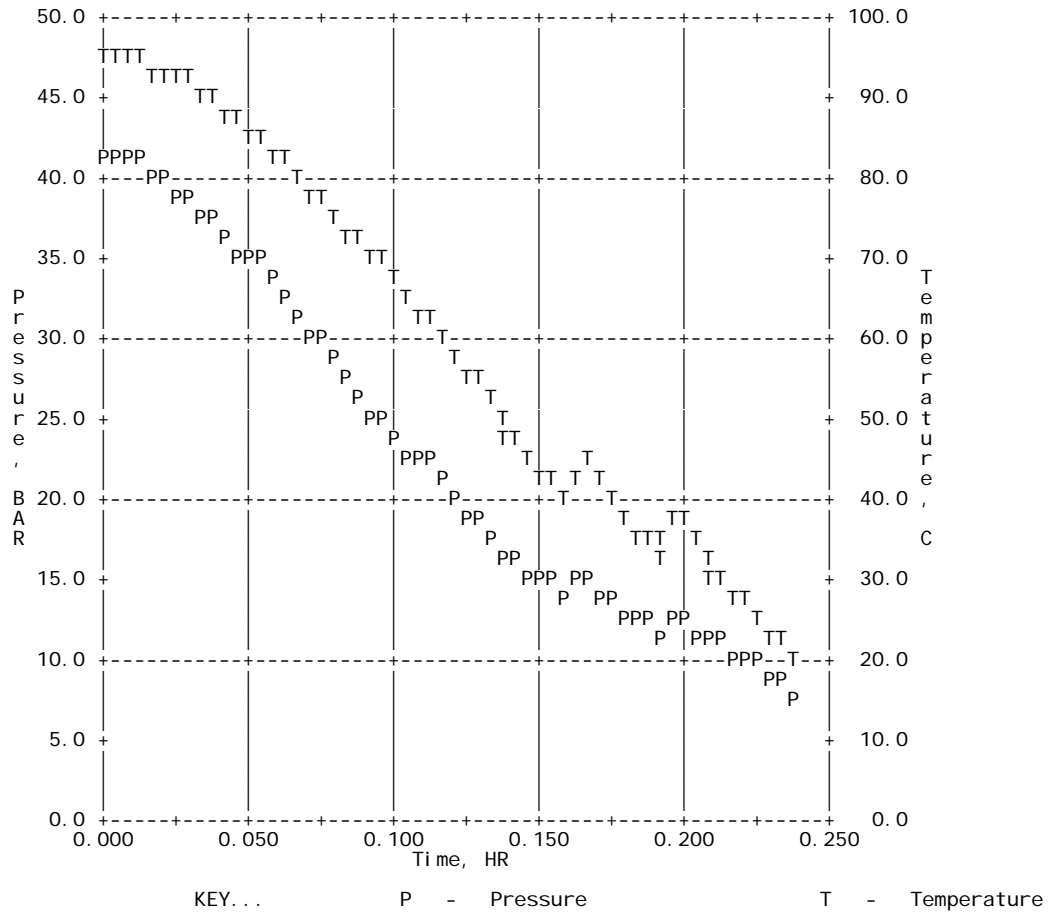
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	41.800	96.0	1.301E+05	811.326
2.5E-04	41.779	96.0	1.300E+05	811.582
7.2E-04	41.738	95.9	1.298E+05	812.348
1.6E-03	41.662	95.8	1.294E+05	813.795
3.1E-03	41.519	95.6	1.286E+05	816.470
5.9E-03	41.249	95.3	1.272E+05	821.391
1.1E-02	40.737	94.6	1.247E+05	830.214
1.6E-02	40.142	93.7	1.213E+05	841.927
2.1E-02	39.502	92.8	1.178E+05	853.855
2.7E-02	38.825	91.9	1.143E+05	865.450
3.2E-02	38.098	90.8	1.108E+05	876.776
3.7E-02	37.292	89.6	1.072E+05	888.157
4.2E-02	36.405	88.3	1.034E+05	899.770
4.7E-02	35.455	86.8	99534.998	911.447
5.2E-02	34.452	85.2	95619.091	922.977
5.7E-02	33.408	83.5	91700.706	934.236
6.2E-02	32.325	81.8	87799.691	945.172
6.7E-02	31.215	79.9	83929.399	955.763
7.2E-02	30.078	77.9	80104.673	965.976
7.7E-02	28.925	75.9	76335.827	975.797
8.2E-02	27.764	73.7	72642.991	985.186
8.7E-02	26.596	71.5	69030.930	994.140
9.3E-02	25.428	69.2	65503.883	1002.659
9.8E-02	24.261	66.9	62063.174	1010.748
0.104	23.102	64.4	58712.256	1018.408
0.109	21.955	61.9	55461.547	1025.620
0.115	20.823	59.4	52311.723	1032.389
0.121	19.714	56.8	49270.008	1038.706
0.126	18.621	54.1	46331.022	1044.584
0.132	17.549	51.4	43486.705	1050.043
0.139	16.503	48.6	40745.453	1055.070
0.145	15.483	45.7	38107.356	1059.665
0.151	14.487	42.8	35564.717	1063.840
0.158	13.524	39.8	33122.980	1067.587
0.165	15.012	44.4	33781.005	1066.416
0.172	13.985	41.3	34352.749	1065.630
0.178	13.074	38.4	31950.123	1069.204
0.184	12.187	35.5	29743.103	1072.204
0.191	11.329	32.4	27621.178	1074.813
0.198	12.675	37.1	28216.975	1073.953
0.204	11.755	34.0	28732.332	1073.405
0.210	10.945	31.1	26637.171	1075.863
0.217	10.166	28.1	24727.797	1077.808
0.223	9.414	25.1	22901.270	1079.379
0.230	8.693	22.0	21155.606	1080.574
0.237	8.000	18.9	19488.609	1081.390
UNIT	1	SOLVED	- ' 114-BDV-0022-FI RE '	

	<p align="center"><b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b></p>	 <p align="center">Pars Oil and Gas Company</p>
<p><b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b></p>		<p><b>Rev. : 3    Class: 2</b></p>
<p><b>Doc. Number : DB-1516-999-P312-212</b></p>		

UNIT 1, ' 114-BDV-0022-FIRE', ' 114-BDV-0022-FIRE' (Cont)



Pressure and Temperature Profiles



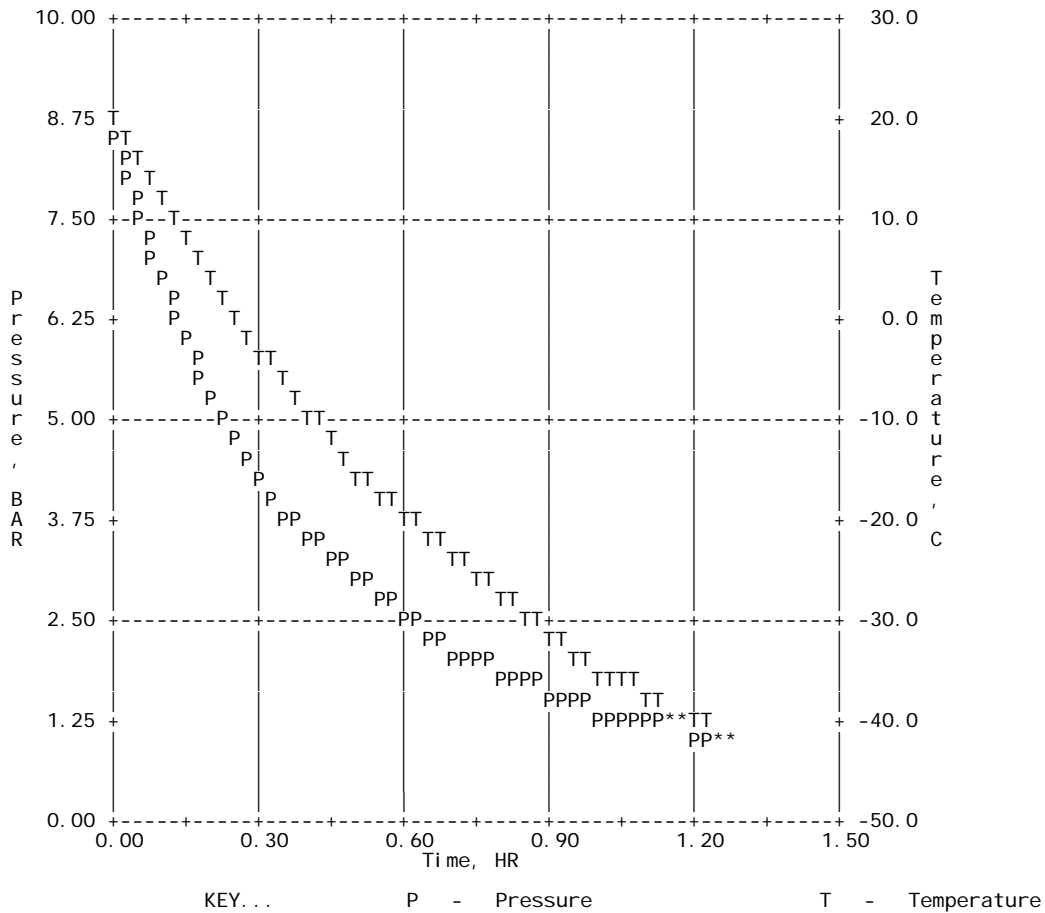
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	8.555	21.0	19949.770	1082.692
5.0E-02	7.538	16.3	18761.709	1082.885
1.0E-01	6.673	11.9	16567.412	1082.938
0.150	5.930	7.8	14700.770	1082.301
0.200	5.289	3.9	13100.582	1081.127
0.250	4.737	2.2E-01	11725.399	1079.537
0.300	4.264	-3.2	10546.352	1077.569
0.350	3.846	-6.4	9522.362	1075.319
0.400	3.482	-9.5	8623.149	1072.939
0.450	3.166	-12.3	7840.094	1070.472
0.500	2.886	-15.0	7153.715	1067.940
0.550	2.643	-17.5	6552.078	1065.376
0.600	2.425	-20.0	6020.126	1062.790
0.650	2.236	-22.2	5549.302	1060.204
0.700	2.065	-24.3	5133.366	1057.650
0.750	1.917	-26.3	4764.785	1055.136
0.800	1.780	-28.2	4434.841	1052.661
0.850	1.655	-30.1	4129.855	1050.152
0.900	1.542	-31.9	3852.770	1047.662
0.950	1.442	-33.6	3604.628	1045.238
1.000	1.352	-35.2	3381.917	1042.886
1.050	1.270	-36.7	3181.181	1040.604
1.100	1.196	-38.1	2999.117	1038.385
1.150	1.126	-39.5	2829.899	1036.182
1.200	1.064	-40.8	2674.323	1034.020
1.250	1.007	-42.1	2533.286	1031.937
1.275	0.980	-42.7	2434.112	1030.385
UNI T	2	SOLVED	- ' 114-BDV-0022-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0022-COLD' (Cont)  
Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

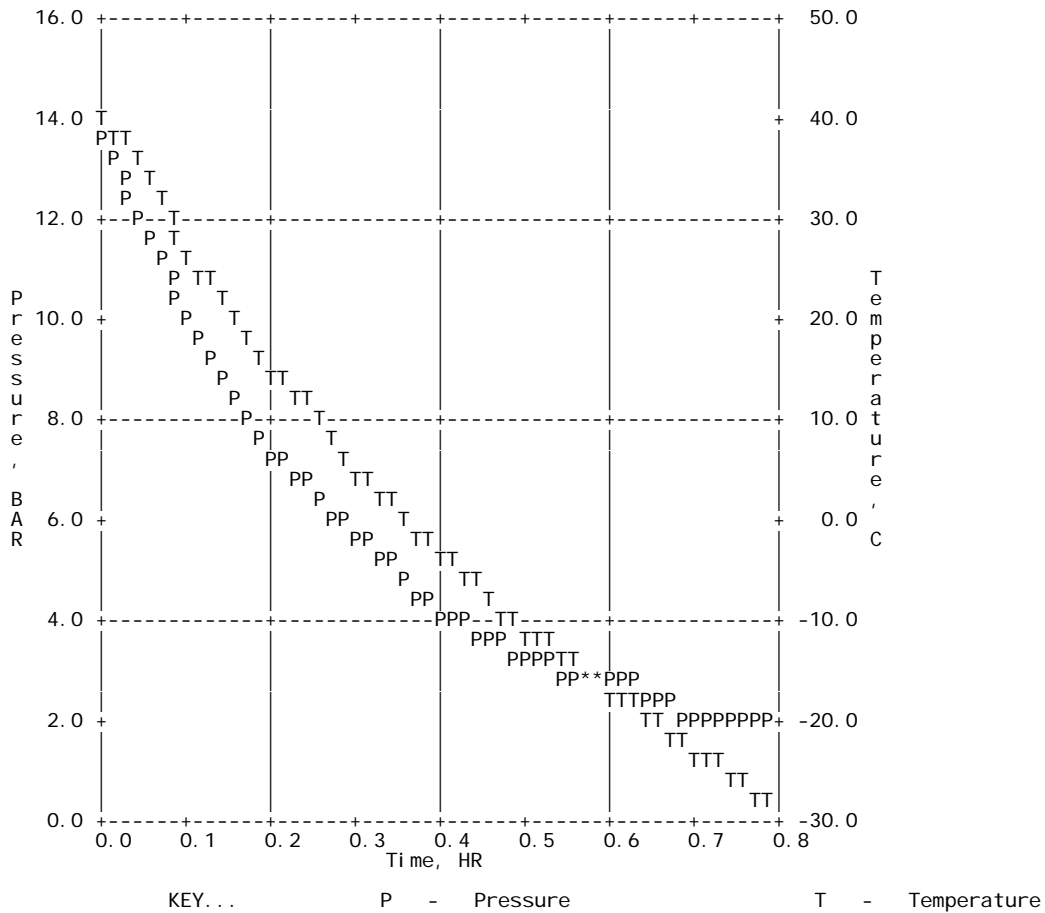
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	13.706	40.0	32294.711	1071.586
5.0E-02	11.593	33.0	29730.526	1074.299
1.0E-01	9.843	26.5	25077.461	1079.149
0.150	8.398	20.4	21286.740	1081.824
0.200	7.207	14.7	18193.469	1082.839
0.250	6.222	9.5	15659.971	1082.606
0.300	5.404	4.6	13572.387	1081.449
0.350	4.728	2.0E-01	11848.101	1079.625
0.400	4.164	-3.9	10421.439	1077.257
0.450	3.679	-7.7	9215.842	1074.498
0.500	3.270	-11.3	8187.426	1071.563
0.550	2.928	-14.6	7322.950	1068.550
0.600	2.628	-17.7	6582.857	1065.470
0.650	2.371	-20.5	5940.493	1062.331
0.700	2.150	-23.2	5388.979	1059.212
0.713	2.099	-23.9	5074.557	1057.207
0.738	2.003	-25.1	4903.989	1056.062
0.787	1.828	-27.5	4589.872	1053.818
UNIT 3	SOLVED	-	' 114-BDV-0022-SPURIOUS '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '114-BDV-0022-SPURIOUS' (Cont)

Pressure and Temperature Profiles




	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.9 BDV 0036 A/B



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-C-103									0	40.2
	<b>TOTAL</b>								0	52.3

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-C-103		40.2						0
	<b>TOTAL</b>	52.3						0

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

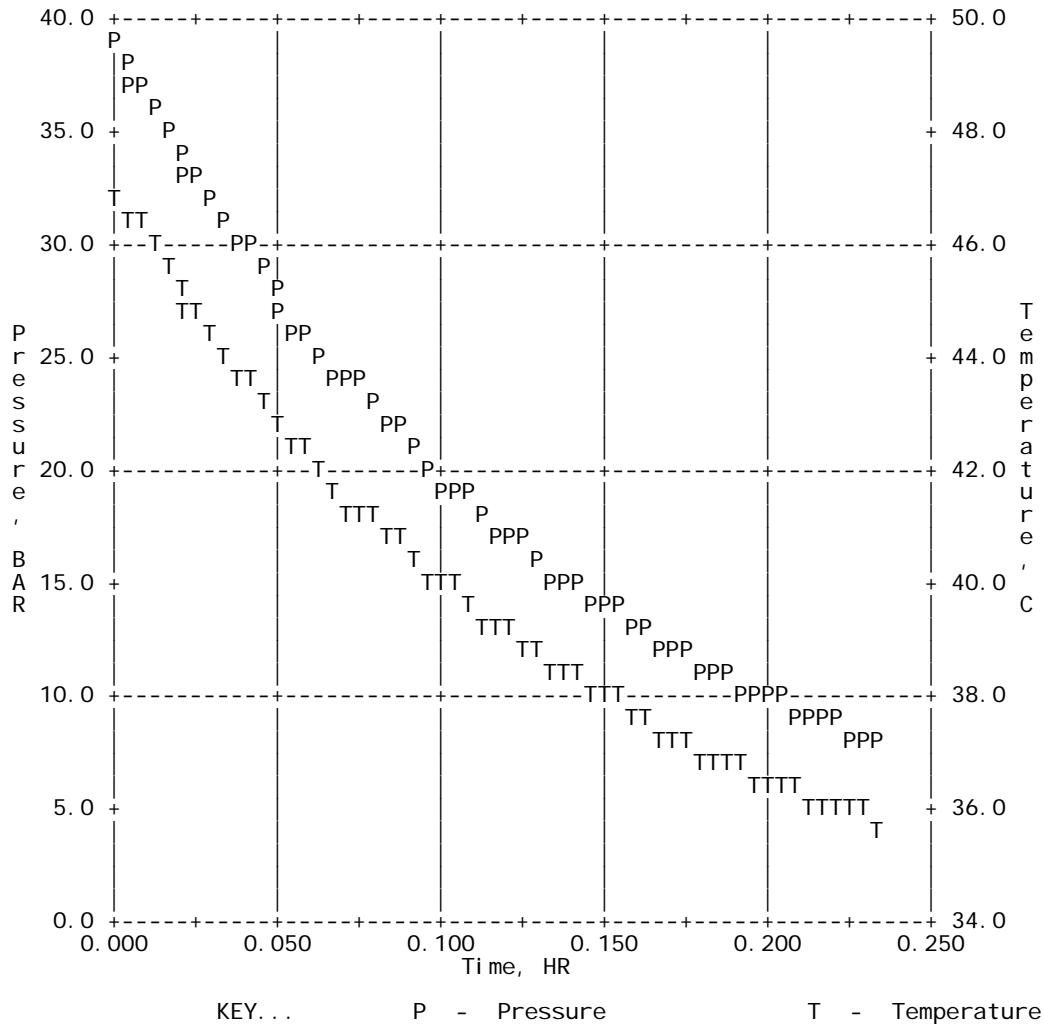
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	39.013	47.0	9602.469	365.655
5.7E-03	37.490	46.5	9414.597	365.671
1.1E-02	36.056	45.9	9049.808	365.707
1.7E-02	34.678	45.4	8702.749	365.748
2.3E-02	33.352	45.0	8369.040	365.794
2.8E-02	32.079	44.5	8048.217	365.845
3.4E-02	30.854	44.0	7739.767	365.898
3.9E-02	29.677	43.6	7443.200	365.955
4.5E-02	28.545	43.2	7158.047	366.015
5.0E-02	27.456	42.8	6883.859	366.077
5.6E-02	26.409	42.4	6620.206	366.141
6.2E-02	25.402	42.1	6366.675	366.206
6.7E-02	24.434	41.7	6122.873	366.273
7.3E-02	23.503	41.4	5888.420	366.340
7.8E-02	22.607	41.1	5662.953	366.408
8.4E-02	21.746	40.7	5446.124	366.477
9.0E-02	20.917	40.4	5237.599	366.545
9.5E-02	20.120	40.2	5037.058	366.614
0.101	19.353	39.9	4844.192	366.682
0.106	18.615	39.6	4658.705	366.750
0.112	17.906	39.4	4480.315	366.817
0.118	17.223	39.1	4308.748	366.884
0.123	16.567	38.9	4143.742	366.950
0.129	15.935	38.6	3985.047	367.015
0.134	15.327	38.4	3832.419	367.079
0.140	14.743	38.2	3685.627	367.142
0.145	14.180	38.0	3544.447	367.204
0.151	13.639	37.8	3408.665	367.265
0.157	13.119	37.6	3278.075	367.324
0.162	12.618	37.4	3152.477	367.383
0.168	12.137	37.3	3031.682	367.440
0.173	11.673	37.1	2915.505	367.496
0.179	11.227	36.9	2803.771	367.551
0.184	10.799	36.8	2696.309	367.604
0.190	10.386	36.6	2592.958	367.656
0.196	9.989	36.5	2493.559	367.707
0.201	9.608	36.4	2397.963	367.756
0.207	9.240	36.2	2306.023	367.804
0.212	8.887	36.1	2217.601	367.851
0.218	8.547	36.0	2132.562	367.896
0.223	8.221	35.9	2050.777	367.941
0.226	8.062	35.8	1991.217	367.974
0.232	7.751	35.7	1933.567	368.005
UNIT	1	SOLVED	- ' 114-BDV-0036-FI RE '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '114-BDV-0036-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

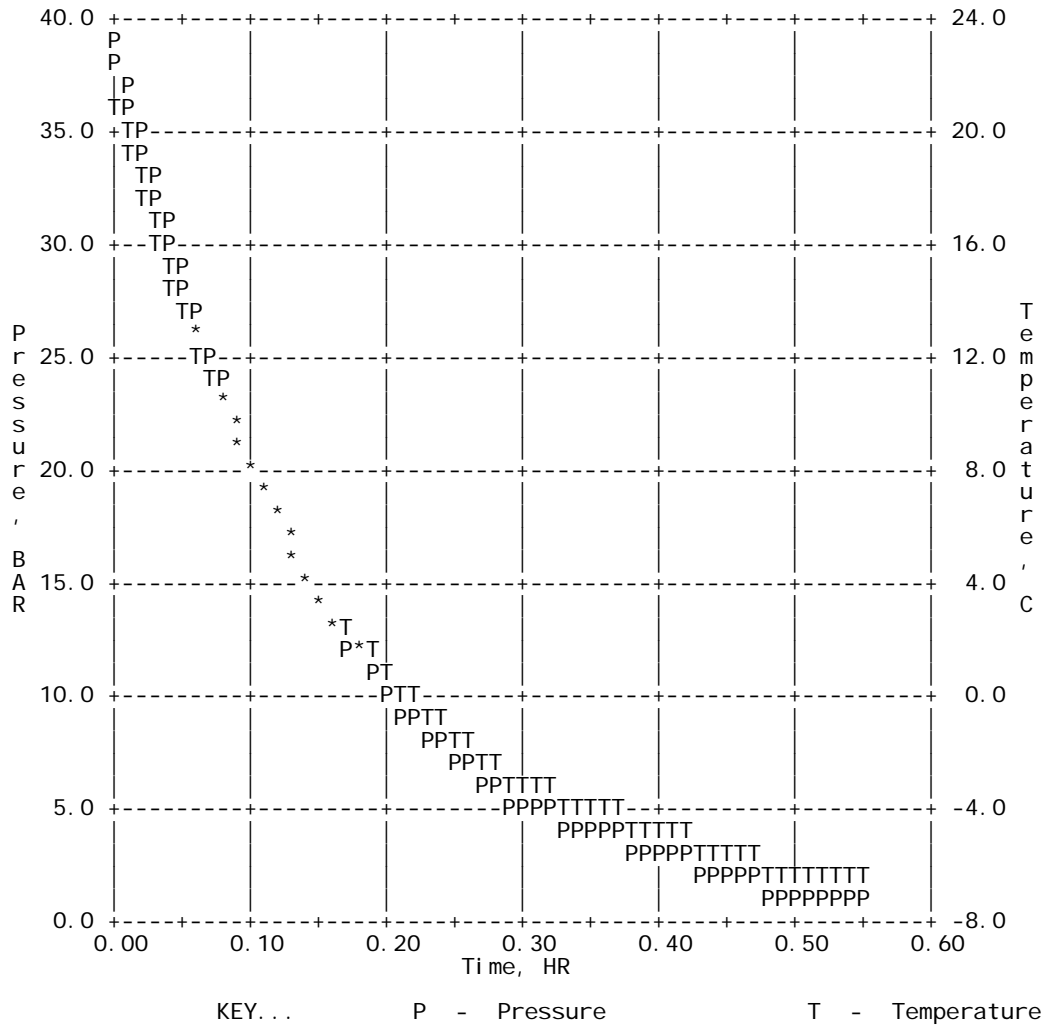
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	39.013	21.0	10140.093	346.268
5.0E-02	27.712	13.3	8685.902	345.692
1.0E-01	19.791	7.7	6202.911	344.622
0.150	14.172	3.5	4440.949	344.148
0.200	10.160	5.6E-01	3183.279	343.966
0.250	7.288	-1.6	2282.962	343.921
0.300	5.228	-3.2	1637.588	343.933
0.350	3.751	-4.3	1174.701	343.965
0.400	2.691	-5.1	842.636	344.001
0.450	1.930	-5.7	604.412	344.033
0.500	1.384	-6.1	433.517	344.059
0.550	0.993	-6.4	310.930	344.079
UNIT	2	SOLVED	- ' 114-BDV-0036-COLD '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0036-COLD' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

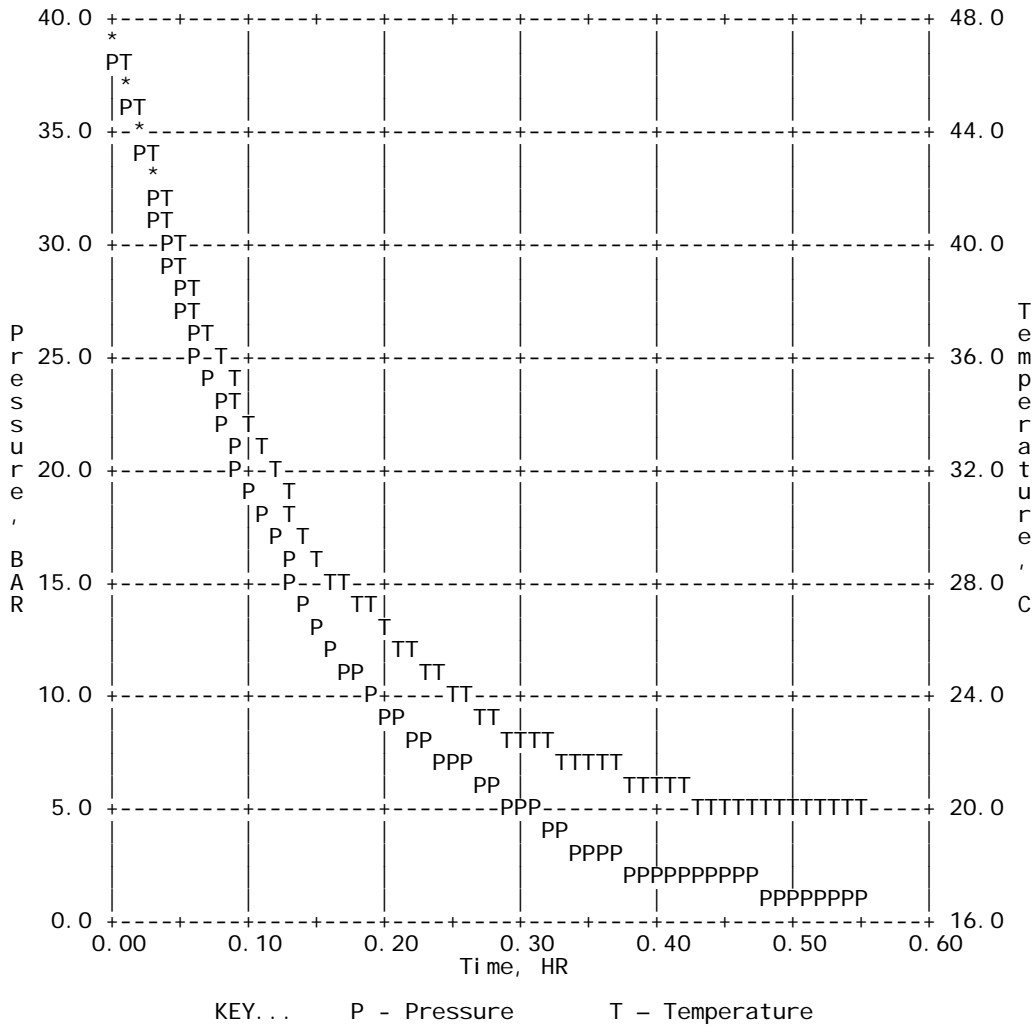
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	39.013	47.0	9602.469	365.655
5.0E-02	27.108	39.0	8156.115	364.815
1.0E-01	18.959	33.3	5708.617	363.142
0.150	13.308	29.2	4008.924	362.193
0.200	9.360	26.3	2820.573	361.643
0.250	6.591	24.2	1986.601	361.316
0.300	4.644	22.7	1400.085	361.116
0.350	3.274	21.7	987.097	360.991
0.400	2.309	20.9	696.090	360.911
0.450	1.628	20.4	490.945	360.858
0.500	1.148	20.0	346.291	360.823
0.550	0.810	19.8	244.273	360.799
UNIT	3	SOLVED	- ' 114-BDV-0036-SPURIOUS '	



UNIT 3, '114-BDV-0036-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.12.10 BDV 0044

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
114-D-107									40.2	0
	<b>TOTAL</b>								52.3	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
114-D-107		40.2						65.0
	<b>TOTAL</b>	52.3						<b>84.5</b>

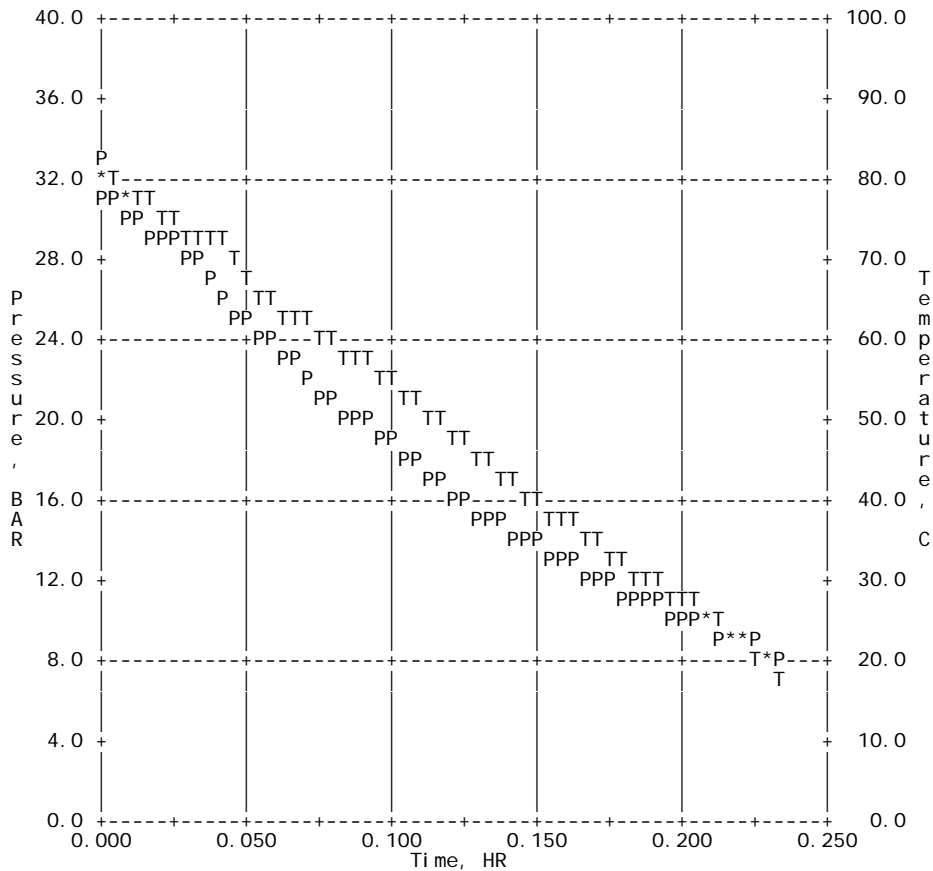
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	31.413	80.2	88574.203	1024.952
7.8E-06	31.411	80.2	88570.181	1024.965
1.9E-05	31.409	80.2	88562.947	1024.987
3.1E-05	31.404	80.2	88550.152	1025.021
5.0E-05	31.406	80.2	88544.411	1025.037
6.8E-05	33.424	80.8	89958.971	1041.357
3.5E-04	31.366	80.1	89885.374	1041.568
4.7E-04	31.347	80.1	88365.025	1025.522
6.4E-04	31.333	80.0	88302.945	1025.689
8.7E-04	31.313	80.0	88241.882	1025.854
1.2E-03	31.274	79.9	88134.604	1026.144
1.6E-03	31.222	79.9	87966.769	1026.596
2.1E-03	31.156	79.7	87750.512	1027.178
2.9E-03	31.061	79.6	87457.403	1027.966
3.9E-03	30.928	79.4	87043.838	1029.075
5.2E-03	30.757	79.1	86493.404	1030.546
7.0E-03	30.527	78.7	85770.702	1032.466
9.3E-03	30.219	78.1	84808.449	1035.012
1.2E-02	29.818	77.4	83551.817	1038.316
1.6E-02	29.285	76.5	81916.307	1042.568
2.2E-02	28.585	75.2	79790.521	1048.025
2.8E-02	27.690	73.5	77090.267	1054.844
3.6E-02	26.575	71.4	73760.083	1063.083
4.6E-02	25.276	68.9	69859.466	1072.504
5.6E-02	23.970	66.2	65757.241	1082.175
6.6E-02	22.673	63.5	61760.754	1091.303
7.6E-02	21.377	60.6	57872.525	1099.878
8.6E-02	20.087	57.6	54079.505	1107.936
9.7E-02	18.815	54.5	50395.491	1115.445
0.108	17.567	51.3	46840.157	1122.365
0.120	16.350	48.1	43422.638	1128.675
0.132	15.158	44.7	40135.363	1134.387
0.144	14.003	41.2	36979.850	1139.496
0.157	12.889	37.7	33969.094	1143.975
0.171	11.809	34.0	31093.096	1147.830
0.185	10.777	30.3	28354.124	1151.054
0.201	9.787	26.5	25757.811	1153.626
0.217	8.848	22.5	23302.691	1155.543
0.234	7.951	18.5	20983.530	1156.792
UNIT	1	SOLVED	- ' 114-BDV-0044-FIRE	'

UNIT 1, '114-BDV-0044-FIRE', '114-BDV-0044-FIRE' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

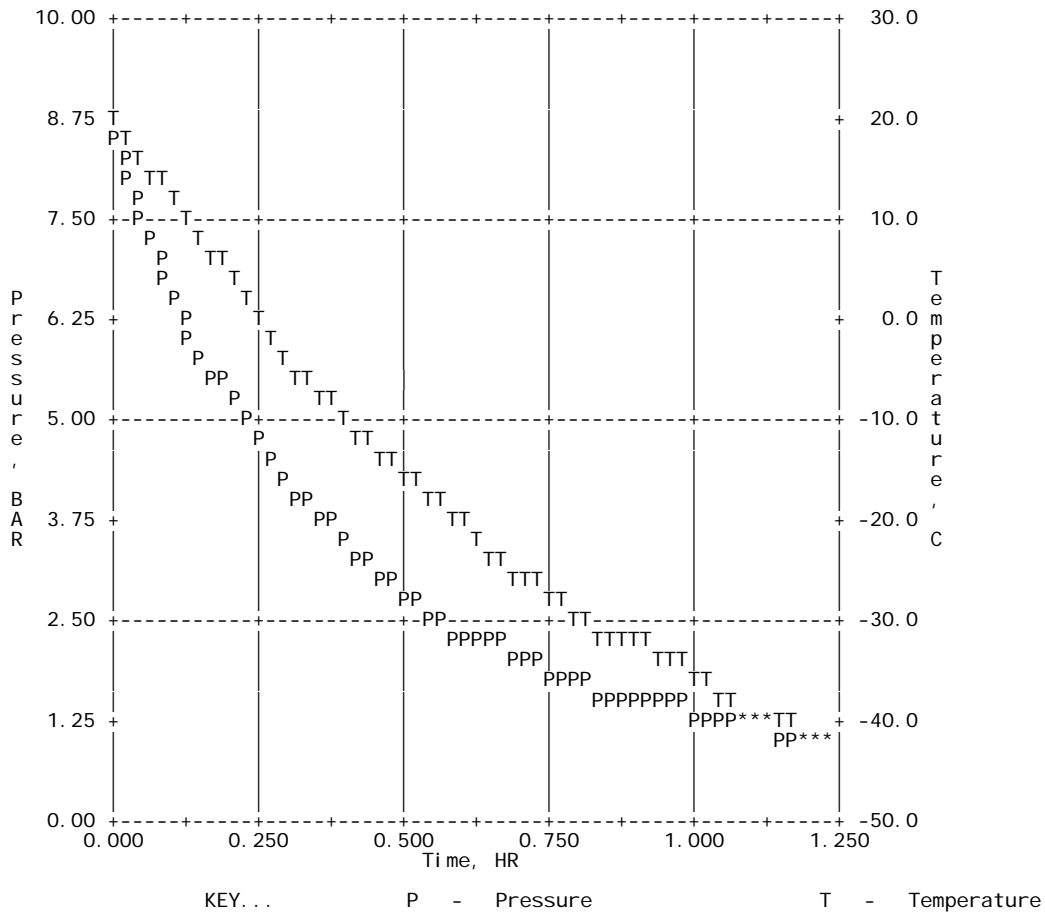
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	8.533	21.0	21313.752	1156.969
5.0E-02	7.504	16.2	20023.685	1157.292
1.0E-01	6.617	11.7	17627.179	1157.557
0.150	5.860	7.4	15581.866	1157.000
0.200	5.202	3.4	13829.778	1155.791
0.250	4.642	-4.1E-01	12325.005	1154.079
0.300	4.159	-3.9	11038.576	1151.996
0.350	3.742	-7.2	9930.334	1149.637
0.400	3.378	-10.4	8969.371	1147.073
0.450	3.069	-13.2	8140.853	1144.392
0.500	2.804	-15.8	7432.784	1141.686
0.550	2.563	-18.4	6808.757	1138.924
0.600	2.350	-20.8	6249.424	1136.093
0.650	2.161	-23.1	5753.153	1133.250
0.700	1.997	-25.2	5315.265	1130.438
0.750	1.846	-27.3	4923.911	1127.648
0.800	1.709	-29.3	4566.446	1124.832
0.850	1.589	-31.1	4246.754	1122.065
0.900	1.481	-32.9	3962.909	1119.383
0.950	1.384	-34.6	3707.183	1116.760
1.000	1.294	-36.2	3473.469	1114.169
1.050	1.213	-37.8	3258.846	1111.604
1.100	1.140	-39.2	3064.695	1109.110
1.150	1.072	-40.7	2887.660	1106.677
1.200	1.011	-42.0	2725.979	1104.305
1.225	0.982	-42.7	2612.652	1102.539
UNIT	2	SOLVED	- ' 114-BDV-0044-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '114-BDV-0044-COLD' (Cont)  
Pressure and Temperature Profiles



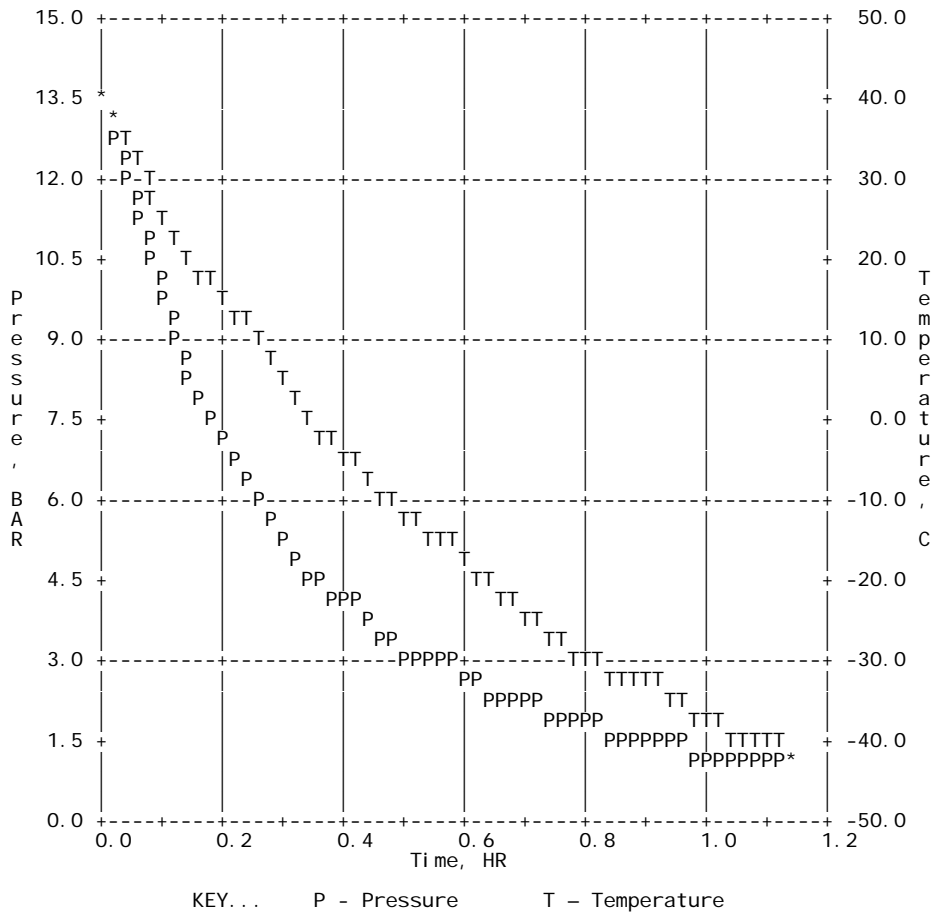
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	13.643	40.0	34477.940	1143.543
5.0E-02	11.513	32.9	31696.233	1146.804
1.0E-01	9.745	26.2	26649.038	1152.672
0.150	8.292	20.0	22546.844	1155.978
0.200	7.100	14.2	19218.304	1157.329
0.250	6.127	9.0	16516.898	1157.237
0.300	5.308	4.1	14292.809	1156.083
0.350	4.622	-5.0E-01	12432.063	1154.136
0.400	4.052	-4.7	10883.862	1151.624
0.450	3.582	-8.5	9603.369	1148.756
0.500	3.175	-12.2	8523.335	1145.629
0.550	2.831	-15.5	7598.265	1142.302
0.600	2.537	-18.6	6810.884	1138.885
0.650	2.285	-21.5	6136.490	1135.430
0.700	2.068	-24.3	5556.502	1131.983
0.750	1.876	-26.8	5049.384	1128.536
0.800	1.710	-29.2	4605.561	1125.117
0.850	1.564	-31.5	4217.249	1121.764
0.900	1.435	-33.6	3874.543	1118.469
0.950	1.323	-35.6	3573.867	1115.276
1.000	1.223	-37.5	3307.861	1112.178
1.050	1.134	-39.3	3070.404	1109.159
1.100	1.054	-41.0	2858.292	1106.232
1.150	0.983	-42.6	2668.438	1103.399
UNIT	3	SOLVED	- ' 114-BDV-0044-SPURIOUS '	

UNIT 3, '114-BDV-0044-SPURIOUS' (Cont)

Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.13 UNIT 115

#### 5.13.1 BDV 0003



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
115-C-101									45.1	0
	<b>TOTAL</b>								49.6	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
115-C-101		45.1						31.2
	<b>TOTAL</b>	49.6						<b>34.3</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

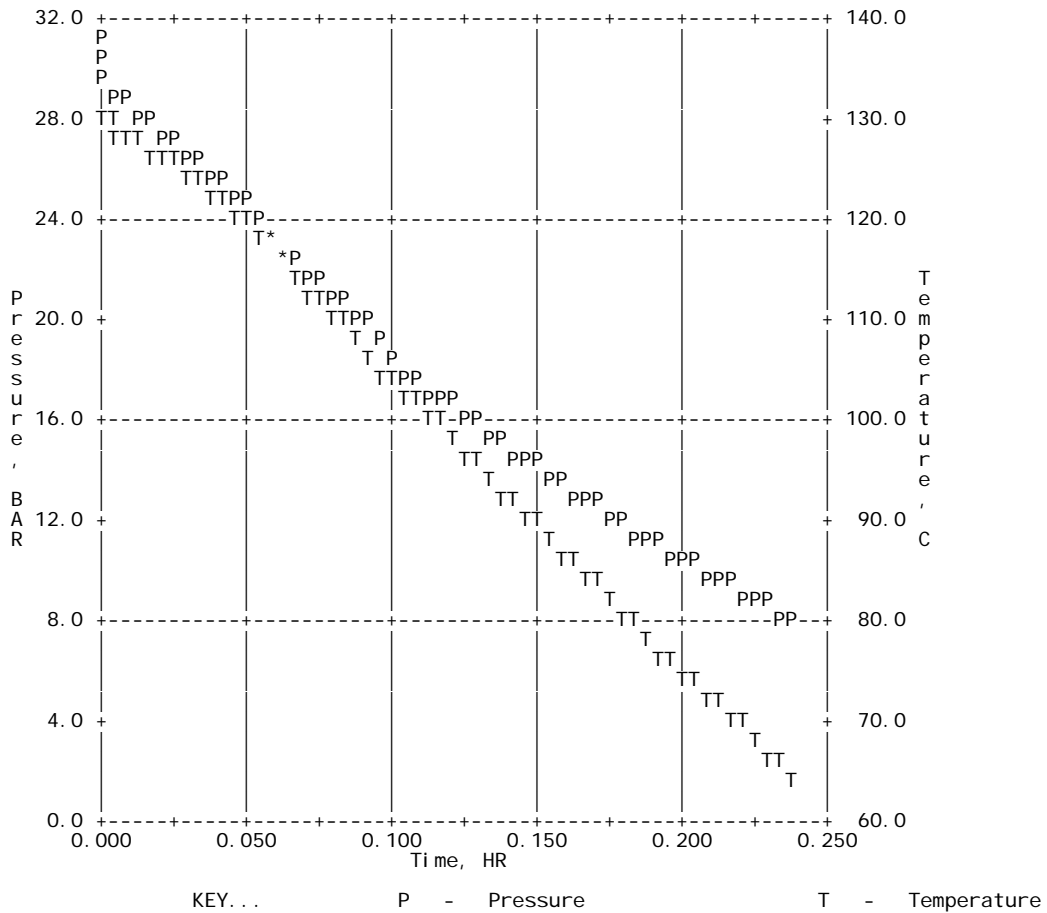
\*\*\* DEPRESSURING SUMMARY


TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.413	130.1	1.097E+05	1126.520
8.0E-06	29.415	130.1	1.097E+05	1126.510
3.3E-05	31.095	130.8	1.113E+05	1142.477
3.1E-04	29.391	130.0	1.112E+05	1142.656
4.2E-04	29.370	130.0	1.096E+05	1126.989
5.9E-04	29.352	129.9	1.095E+05	1127.259
8.3E-04	29.328	129.9	1.094E+05	1127.549
1.2E-03	29.296	129.8	1.092E+05	1127.948
1.6E-03	29.254	129.7	1.090E+05	1128.472
2.2E-03	29.191	129.6	1.088E+05	1129.204
3.1E-03	29.104	129.4	1.084E+05	1130.247
4.3E-03	28.984	129.2	1.079E+05	1131.675
5.9E-03	28.820	128.9	1.071E+05	1133.626
8.1E-03	28.593	128.4	1.062E+05	1136.278
1.1E-02	28.282	127.8	1.048E+05	1139.860
1.5E-02	27.862	126.9	1.031E+05	1144.628
2.0E-02	27.290	125.7	1.007E+05	1150.927
2.7E-02	26.525	124.0	97556.388	1159.108
3.6E-02	25.587	121.9	93663.191	1169.090
4.4E-02	24.626	119.8	89434.275	1179.754
5.3E-02	23.663	117.5	85263.920	1190.037
6.1E-02	22.690	115.2	81172.453	1199.886
7.0E-02	21.709	112.7	77143.024	1209.352
7.9E-02	20.733	110.2	73196.769	1218.391
8.8E-02	19.766	107.6	69357.709	1226.953
9.7E-02	18.801	105.0	65614.137	1235.065
0.106	17.852	102.2	61973.740	1242.720
0.115	16.910	99.4	58438.246	1249.910
0.125	15.987	96.6	55005.997	1256.646
0.135	15.083	93.6	51695.076	1262.891
0.145	14.199	90.6	48498.880	1268.660
0.155	13.332	87.5	45408.321	1273.967
0.165	12.490	84.4	42429.266	1278.803
0.176	11.669	81.2	39561.679	1283.163
0.188	10.876	77.9	36806.907	1287.045
0.199	10.108	74.6	34168.302	1290.438
0.211	9.366	71.2	31637.925	1293.351
0.224	8.653	67.7	29219.518	1295.775
0.237	7.965	64.2	26908.514	1297.705
UNIT	1	SOLVED	- ' 115-BDV-0003-FI RE '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '115-BDV-0003-FIRE', '115-BDV-0003-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

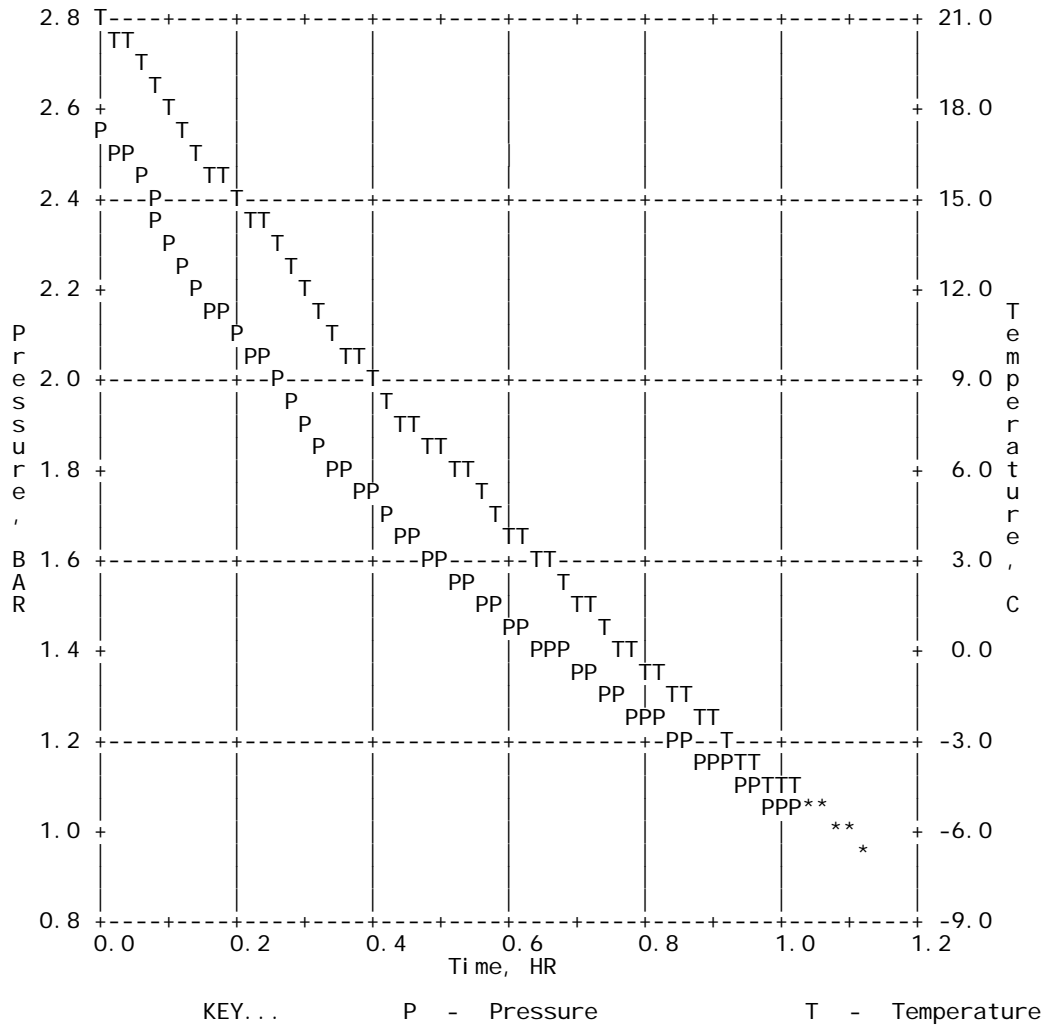
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	2.563	21.0	8387.622	1284.040
5.0E-02	2.431	19.3	8177.143	1283.186
1.0E-01	2.309	17.7	7772.291	1281.431
0.150	2.195	16.1	7395.796	1279.665
0.200	2.089	14.6	7044.255	1277.889
0.250	1.990	13.2	6716.583	1276.111
0.300	1.898	11.7	6411.733	1274.342
0.350	1.812	10.4	6126.535	1272.577
0.400	1.731	9.0	5858.029	1270.808
0.450	1.655	7.7	5606.211	1269.048
0.500	1.584	6.5	5370.493	1267.303
0.550	1.518	5.3	5150.338	1265.582
0.600	1.455	4.1	4942.658	1263.869
0.650	1.395	2.9	4745.222	1262.156
0.700	1.339	1.8	4558.974	1260.457
0.750	1.287	6.5E-01	4383.714	1258.778
0.800	1.238	-3.9E-01	4220.061	1257.136
0.850	1.191	-1.4	4064.588	1255.504
0.900	1.146	-2.5	3915.542	1253.870
0.950	1.104	-3.5	3775.514	1252.266
1.000	1.064	-4.4	3643.005	1250.684
1.050	1.026	-5.4	3516.650	1249.113
1.075	1.009	-5.8	3426.163	1247.944
1.125	0.974	-6.7	3340.457	1246.813
UNIT	2	SOLVED	- ' 115-BDV-0003-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '115-BDV-0003-COLD' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

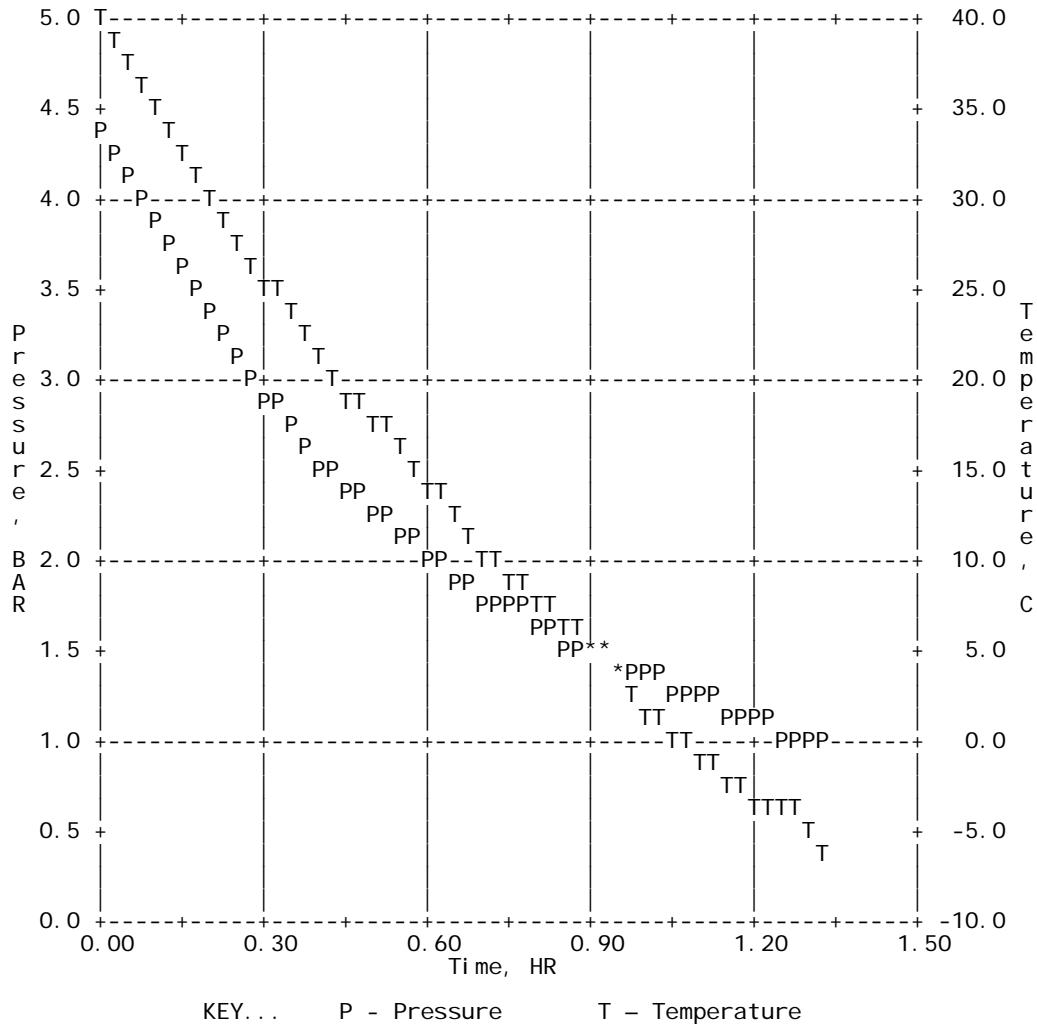
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	4.433	40.0	14355.742	1297.720
5.0E-02	4.116	37.3	13848.676	1297.068
1.0E-01	3.827	34.7	12880.403	1295.634
0.150	3.566	32.3	12003.651	1294.058
0.200	3.328	29.9	11209.468	1292.370
0.250	3.111	27.6	10484.333	1290.581
0.300	2.911	25.4	9819.069	1288.704
0.350	2.728	23.3	9208.648	1286.756
0.400	2.560	21.3	8648.906	1284.756
0.450	2.408	19.3	8137.549	1282.726
0.500	2.268	17.4	7671.288	1280.686
0.550	2.139	15.6	7242.593	1278.633
0.600	2.019	13.9	6844.168	1276.554
0.650	1.908	12.2	6474.422	1274.461
0.700	1.805	10.5	6132.647	1272.371
0.750	1.712	9.0	5818.495	1270.302
0.800	1.625	7.5	5528.741	1268.257
0.850	1.542	6.0	5255.724	1266.198
0.900	1.466	4.5	5000.095	1264.141
0.950	1.396	3.2	4764.191	1262.120
1.000	1.330	1.8	4544.792	1260.127
1.050	1.269	5.3E-01	4340.075	1258.158
1.100	1.211	-7.3E-01	4148.094	1256.207
1.150	1.158	-1.9	3968.035	1254.277
1.200	1.107	-3.1	3799.385	1252.374
1.250	1.060	-4.3	3640.518	1250.490
1.300	1.016	-5.4	3493.553	1248.661
1.325	0.996	-5.9	3389.541	1247.307
UNI T	3	SOLVED	- ' 115-BDV-0003-SPURI OUS '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '115-BDV-0003-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.13.2 BDV 0007

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
115-D-101									44.6	0
	<b>TOTAL</b>								58.0	0



FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
115-D-101		44.6						83.1
	<b>TOTAL</b>	58.0						<b>108.0</b>



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

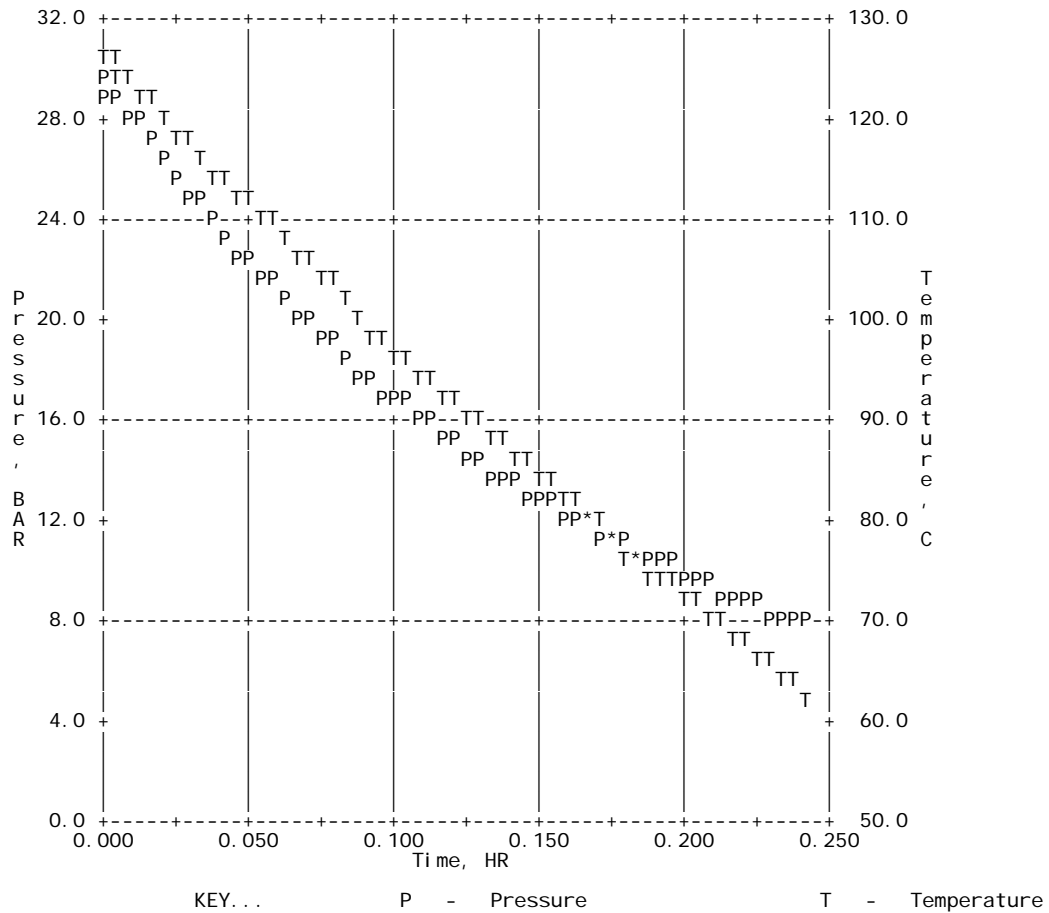
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	29.413	126.2	1.102E+05	1350.838
5.9E-06	29.410	126.2	1.102E+05	1350.851
1.1E-05	29.423	126.2	1.102E+05	1350.813
3.9E-05	29.440	126.2	1.103E+05	1350.701
3.2E-04	29.397	126.2	1.102E+05	1351.052
4.5E-04	29.382	126.1	1.101E+05	1351.023
5.7E-04	29.355	126.1	1.100E+05	1351.182
7.3E-04	29.329	126.0	1.099E+05	1351.382
8.9E-04	29.296	126.0	1.098E+05	1351.604
1.2E-03	29.254	125.9	1.096E+05	1351.886
1.5E-03	29.200	125.8	1.094E+05	1352.247
1.9E-03	29.132	125.6	1.092E+05	1352.707
2.5E-03	29.044	125.5	1.088E+05	1353.293
3.2E-03	28.928	125.3	1.084E+05	1354.053
4.2E-03	28.779	125.0	1.078E+05	1355.036
5.4E-03	28.585	124.6	1.071E+05	1356.297
7.1E-03	28.341	124.1	1.061E+05	1357.895
9.1E-03	28.027	123.5	1.049E+05	1359.909
1.2E-02	27.635	122.7	1.034E+05	1362.420
1.5E-02	27.140	121.7	1.015E+05	1365.515
1.9E-02	26.531	120.5	99216.345	1369.283
2.4E-02	25.794	119.0	96411.820	1373.758
3.1E-02	24.908	117.1	93067.024	1378.977
3.8E-02	23.867	114.8	89145.913	1384.934
4.8E-02	22.673	112.1	84659.009	1391.530
5.8E-02	21.417	109.1	79807.825	1398.409
6.8E-02	20.218	106.1	75013.827	1404.938
7.9E-02	19.054	103.1	70459.331	1410.845
8.9E-02	17.928	100.1	66098.817	1416.212
0.101	16.837	97.0	61925.280	1421.058
0.112	15.790	93.9	57939.745	1425.394
0.124	14.784	90.7	54147.863	1429.224
0.136	13.819	87.5	50538.700	1432.570
0.148	12.911	84.4	47135.606	1435.426
0.161	12.024	81.1	43898.083	1437.827
0.174	11.180	77.9	40795.034	1439.807
0.188	10.374	74.6	37853.638	1441.348
0.202	9.606	71.2	35061.177	1442.462
0.217	8.881	67.9	32424.313	1443.154
0.233	8.192	64.5	29938.046	1443.432
0.241	7.856	62.8	28141.960	1443.406
UNIT	1	SOLVED	- ' 115-BDV-0007-FI RE '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '115-BDV-0007-FIRE', '115-BDV-0007-FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

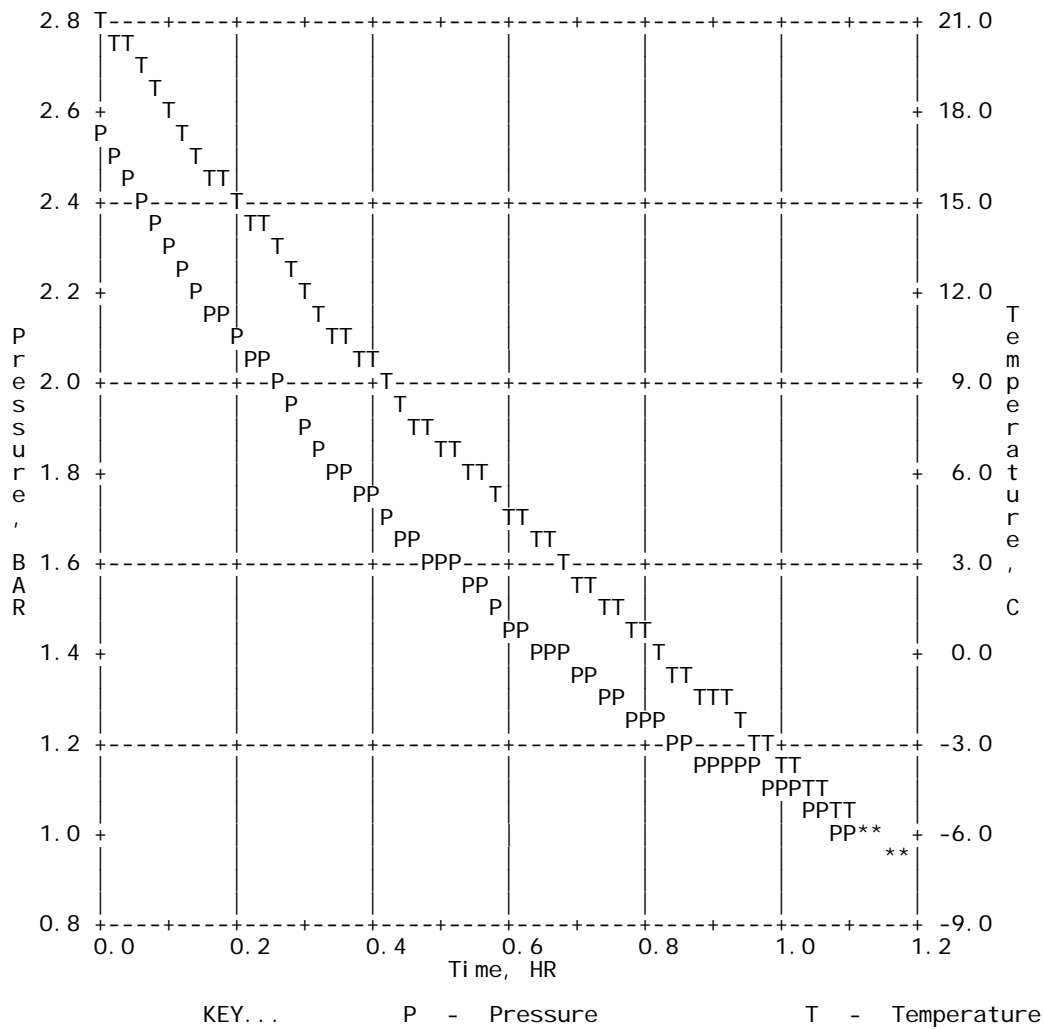
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR M3/HR
0.000	2.541	21.0	9116.762 1410.805
5.0E-02	2.415	19.4	8897.558 1409.793
1.0E-01	2.295	17.8	8469.864 1407.702
0.150	2.187	16.3	8071.406 1405.618
0.200	2.083	14.9	7701.029 1403.555
0.250	1.989	13.5	7355.219 1401.507
0.300	1.901	12.1	7035.077 1399.498
0.350	1.817	10.8	6733.124 1397.494
0.400	1.738	9.5	6447.824 1395.493
0.450	1.664	8.2	6180.042 1393.514
0.500	1.595	7.0	5928.584 1391.557
0.550	1.530	5.8	5692.332 1389.627
0.600	1.471	4.7	5474.189 1387.757
0.650	1.413	3.6	5268.266 1385.912
0.700	1.359	2.5	5069.994 1384.053
0.750	1.307	1.4	4882.730 1382.218
0.800	1.259	4.1E-01	4705.216 1380.404
0.850	1.214	-5.7E-01	4539.879 1378.529
0.900	1.170	-1.6	4383.505 1376.580
0.950	1.129	-2.5	4232.773 1374.655
1.000	1.089	-3.4	4089.781 1372.785
1.050	1.052	-4.4	3954.153 1370.967
1.100	1.018	-5.2	3826.298 1369.209
1.125	1.000	-5.7	3733.799 1367.903
1.175	0.967	-6.5	3644.638 1366.631
UNIT 2	SOLVED	-	' 115-BDV-0007-COLD '

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '115-BDV-0007-COLD' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

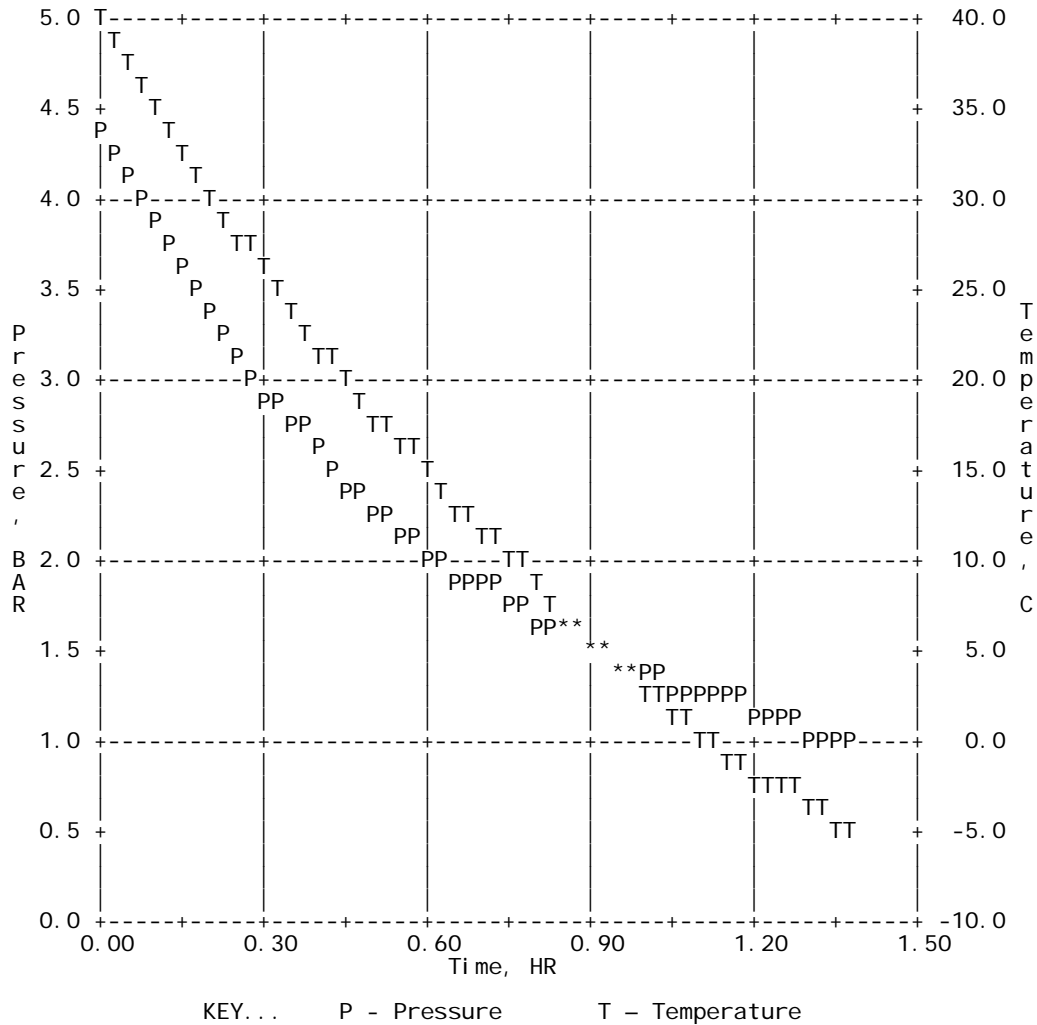
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	4.435	40.0	15690.093	1430.818
5.0E-02	4.117	37.3	15138.821	1429.773
1.0E-01	3.829	34.8	14088.764	1427.559
0.150	3.568	32.4	13137.430	1425.265
0.200	3.332	30.0	12274.105	1422.911
0.250	3.115	27.8	11487.613	1420.508
0.300	2.920	25.7	10773.104	1418.083
0.350	2.739	23.6	10118.855	1415.633
0.400	2.575	21.6	9517.588	1413.163
0.450	2.424	19.7	8969.426	1410.706
0.500	2.286	17.9	8465.791	1408.257
0.550	2.159	16.1	8002.589	1405.821
0.600	2.044	14.5	7579.385	1403.426
0.650	1.934	12.8	7186.397	1401.040
0.700	1.834	11.2	6818.772	1398.652
0.750	1.741	9.7	6480.089	1396.304
0.800	1.655	8.3	6166.179	1393.988
0.850	1.575	6.8	5873.906	1391.700
0.900	1.501	5.5	5603.362	1389.457
0.950	1.432	4.2	5351.194	1387.248
1.000	1.367	2.9	5114.090	1385.057
1.050	1.306	1.6	4892.952	1382.906
1.100	1.250	4.3E-01	4686.415	1380.794
1.150	1.197	-7.4E-01	4493.093	1378.588
1.200	1.147	-1.9	4311.229	1376.295
1.250	1.100	-3.0	4138.799	1374.056
1.300	1.056	-4.1	3976.454	1371.887
1.350	1.014	-5.1	3824.657	1369.800
1.375	0.995	-5.6	3717.049	1368.273
UNIT	3	SOLVED	- ' 115-BDV-0007-SPURIOUS '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '115-BDV-0007-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.13.3 BDV 0010

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
115-F-101									25.4	0
	<b>TOTAL</b>								33.0	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
115-F-101		25.4						8.0
	<b>TOTAL</b>	33.0						<b>10.4</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

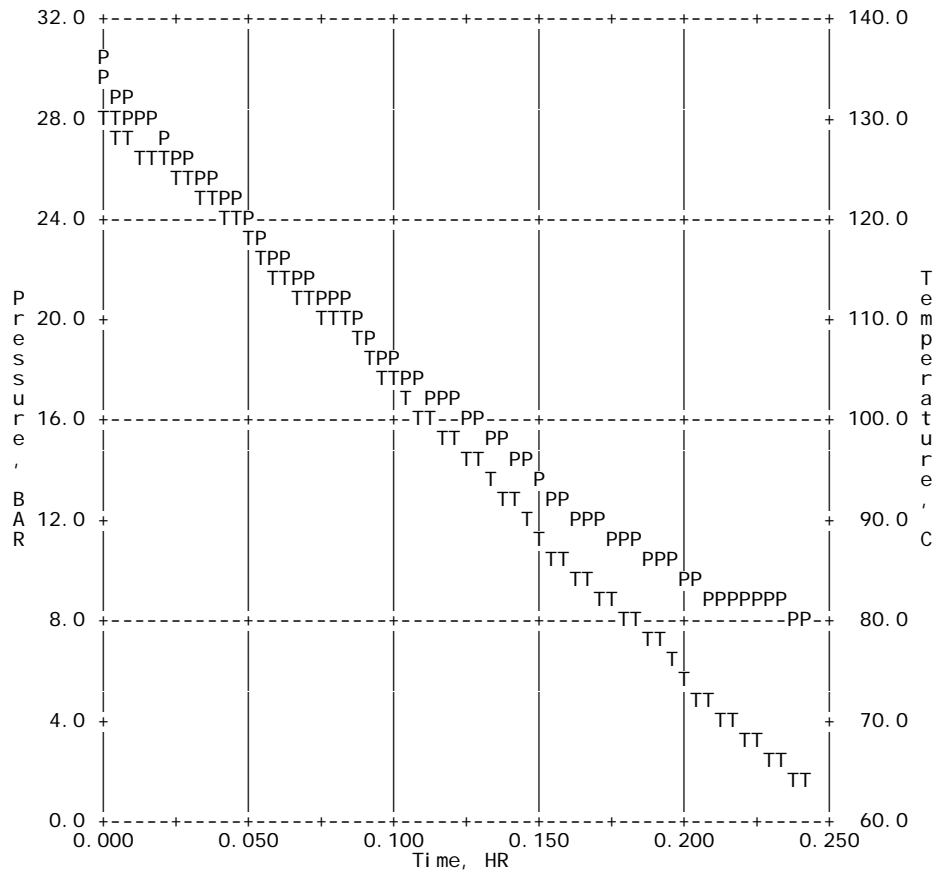
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR    M3/HR
0.000	29.413	129.8	61164.552    635.973
1.1E-05	29.414	129.8	61165.685    635.970
1.9E-05	30.301	130.2	61625.953    640.740
3.0E-04	29.385	129.7	61586.942    640.840
4.2E-04	29.372	129.7	61070.173    636.208
5.7E-04	29.352	129.7	61024.722    636.323
7.9E-04	29.327	129.6	60963.616    636.477
1.1E-03	29.295	129.6	60885.483    636.672
1.5E-03	29.248	129.5	60777.940    636.942
2.1E-03	29.184	129.3	60626.140    637.323
2.9E-03	29.096	129.2	60418.759    637.843
4.0E-03	28.975	128.9	60135.427    638.554
5.6E-03	28.809	128.6	59746.760    639.529
7.6E-03	28.582	128.1	59217.758    640.855
1.0E-02	28.275	127.5	58503.945    642.643
1.4E-02	27.861	126.7	57547.716    645.032
1.9E-02	27.310	125.5	56284.423    648.175
2.6E-02	26.581	124.0	54635.711    652.248
3.4E-02	25.633	121.9	52518.601    657.424
4.2E-02	24.645	119.7	50129.250    663.213
5.1E-02	23.652	117.4	47745.010    668.895
6.0E-02	22.652	115.0	45403.061    674.367
6.9E-02	21.652	112.5	43106.321    679.621
7.8E-02	20.657	109.9	40864.142    684.633
8.7E-02	19.671	107.3	38681.534    689.392
9.6E-02	18.691	104.6	36556.832    693.899
0.106	17.724	101.8	34490.077    698.156
0.115	16.776	99.0	32490.702    702.143
0.125	15.844	96.1	30558.277    705.860
0.135	14.930	93.1	28688.354    709.317
0.145	14.035	90.0	26880.992    712.512
0.156	13.163	86.9	25138.025    715.440
0.167	12.315	83.7	23461.404    718.098
0.178	11.493	80.5	21850.911    720.483
0.190	10.696	77.1	20304.876    722.597
0.202	9.925	73.8	18821.862    724.439
0.214	9.181	70.3	17401.808    726.006
0.227	8.464	66.8	16042.979    727.296
0.241	7.778	63.2	14746.373    728.303
UNIT	1	SOLVED	- ' 115-BDV-0010-FI RE '





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '115-BDV-0010-FIRE', '115-BDV-0010-FIRE' (Cont)

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

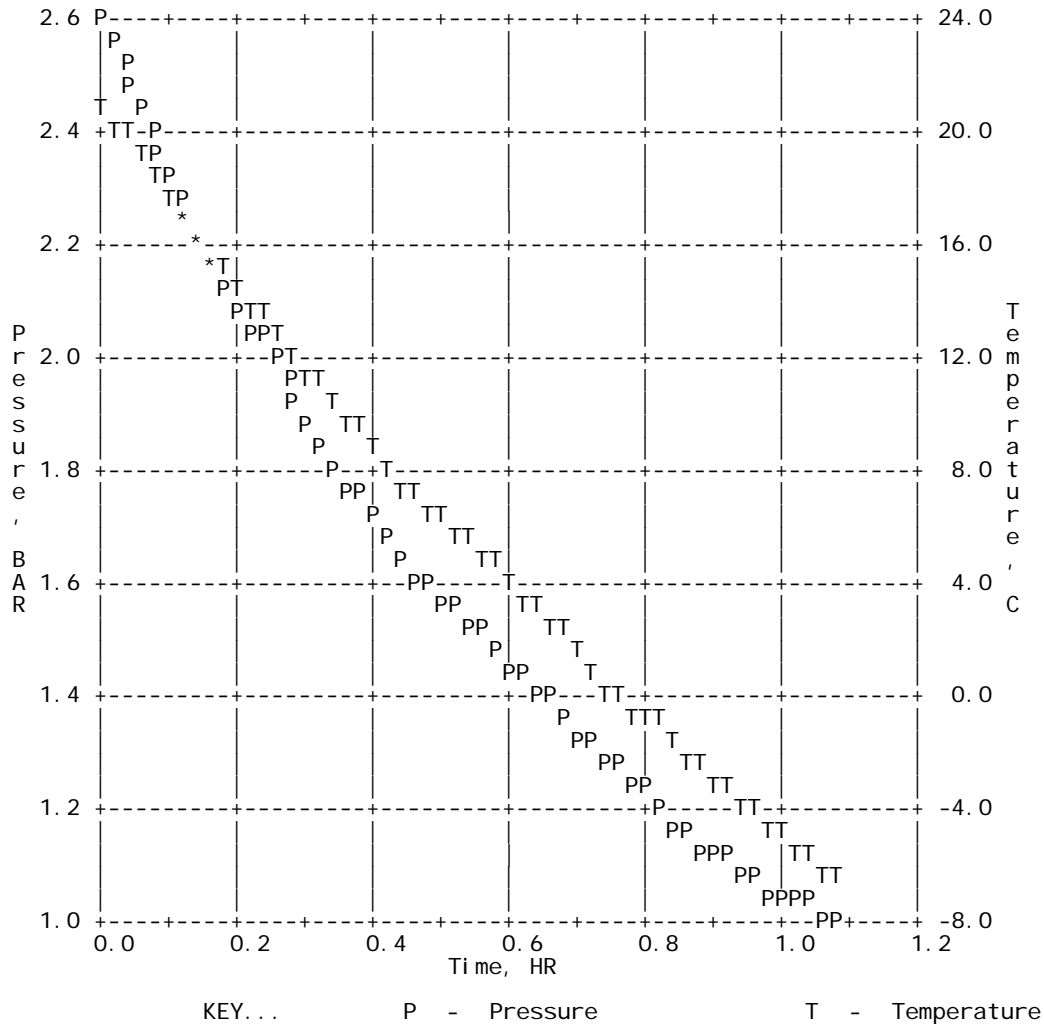
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	2.586	21.0	4731.441	722.959
5.0E-02	2.450	19.3	4609.894	722.398
1.0E-01	2.322	17.6	4374.872	721.244
0.150	2.204	16.0	4156.309	720.092
0.200	2.094	14.5	3953.401	718.947
0.250	1.992	13.0	3764.514	717.811
0.300	1.897	11.5	3588.583	716.684
0.350	1.808	10.1	3424.058	715.565
0.400	1.726	8.8	3270.929	714.462
0.450	1.648	7.4	3127.514	713.370
0.500	1.575	6.1	2992.468	712.285
0.550	1.507	4.9	2866.291	711.217
0.600	1.445	3.7	2748.739	710.171
0.650	1.385	2.5	2638.402	709.090
0.700	1.328	1.4	2533.337	707.935
0.750	1.275	3.1E-01	2434.675	706.790
0.800	1.227	-7.7E-01	2343.409	705.867
0.850	1.180	-1.8	2257.061	704.969
0.900	1.135	-2.8	2174.192	703.906
0.950	1.091	-3.8	2094.590	702.548
1.000	1.050	-4.8	2018.017	701.249
1.025	1.031	-5.3	1963.704	700.585
1.075	0.996	-6.1	1915.181	699.975
UNIT 2	SOLVED	-	' 115-BDV-0010-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '115-BDV-0010-COLD' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

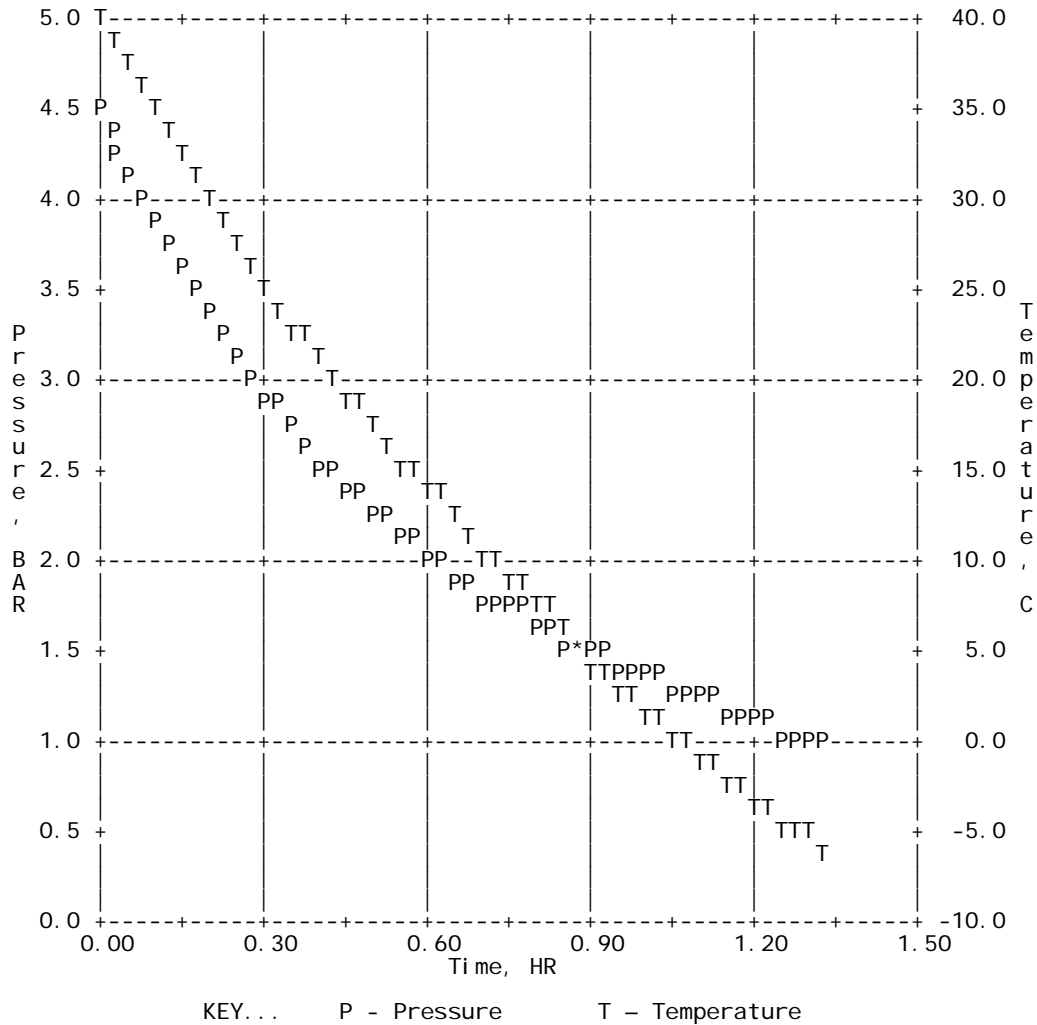
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR M3/HR
0.000	4.503	40.0	8126.294 732.855
5.0E-02	4.158	37.2	7823.311 732.038
1.0E-01	3.847	34.6	7248.064 730.242
0.150	3.569	32.0	6731.668 728.440
0.200	3.320	29.6	6267.943 726.810
0.250	3.096	27.3	5849.457 725.298
0.300	2.893	25.1	5470.881 723.871
0.350	2.711	23.0	5128.671 722.508
0.400	2.541	21.0	4815.483 721.183
0.450	2.388	19.0	4527.917 719.884
0.500	2.248	17.1	4266.014 718.616
0.550	2.118	15.3	4024.806 717.363
0.600	2.001	13.6	3803.731 716.132
0.650	1.891	11.9	3600.291 714.918
0.700	1.790	10.3	3410.503 713.707
0.750	1.696	8.7	3235.241 712.512
0.800	1.608	7.1	3071.902 711.324
0.850	1.528	5.7	2920.615 710.152
0.900	1.453	4.3	2780.746 709.000
0.950	1.383	2.9	2649.860 707.857
1.000	1.319	1.6	2528.539 706.735
1.050	1.259	3.0E-01	2415.473 705.631
1.100	1.201	-9.7E-01	2308.645 704.506
1.150	1.147	-2.2	2207.486 703.396
1.200	1.097	-3.4	2113.274 702.336
1.250	1.050	-4.5	2024.780 701.281
1.275	1.026	-5.1	1959.981 700.468
1.325	0.985	-6.2	1900.885 699.706
UNI T	3	SOLVED	- ' 115-BDV-0010-SPURIOUS '

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '115-BDV-0010-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.13.4 BDV 0021



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
115-D-102									35.0	0
	<b>TOTAL</b>								45.5	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
115-D-102		35.0						8.4
	<b>TOTAL</b>	45.5						<b>10.9</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>  <b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>  <b>Doc. Number : DB-1516-999-P312-212</b>	  <b>Pars Oil and Gas Company</b>  <b>Rev. : 3 Class: 2</b>
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\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0. 000	16. 613	98. 1	37971. 673	857. 533
5. 8E-06	16. 616	98. 1	37974. 546	857. 527
1. 6E-05	16. 620	98. 1	37982. 600	857. 511
1. 9E-05	16. 619	98. 1	37986. 546	857. 504
2. 3E-05	16. 617	98. 1	37982. 648	857. 511
3. 7E-05	16. 613	98. 1	37975. 816	857. 524
4. 7E-05	16. 606	98. 1	37962. 812	857. 550
6. 3E-05	16. 606	98. 1	37953. 405	857. 568
9. 1E-05	16. 602	98. 0	37948. 384	857. 577
1. 1E-04	16. 598	98. 0	37939. 214	857. 595
1. 4E-04	16. 597	98. 0	37932. 313	857. 609
2. 8E-04	16. 595	98. 0	37927. 918	857. 617
3. 2E-04	16. 586	98. 0	37914. 986	857. 642
3. 8E-04	16. 584	98. 0	37901. 232	857. 669
4. 7E-04	16. 581	98. 0	37894. 224	857. 682
5. 5E-04	16. 569	97. 9	37875. 690	857. 718
6. 4E-04	16. 565	97. 9	37856. 554	857. 755
7. 5E-04	16. 563	97. 9	37849. 015	857. 769
8. 7E-04	16. 557	97. 9	37838. 954	857. 789
1. 0E-03	16. 553	97. 9	37826. 654	857. 812
1. 1E-03	16. 547	97. 9	37814. 248	857. 836
1. 3E-03	16. 538	97. 8	37794. 884	857. 874
1. 5E-03	16. 531	97. 8	37774. 223	857. 914
1. 7E-03	16. 520	97. 8	37752. 188	857. 956
1. 9E-03	16. 503	97. 7	37717. 463	858. 023
2. 2E-03	16. 491	97. 7	37681. 823	858. 091
2. 6E-03	16. 475	97. 6	37647. 332	858. 158
2. 9E-03	16. 461	97. 6	37609. 045	858. 231
3. 4E-03	16. 443	97. 5	37568. 258	858. 309
3. 9E-03	16. 418	97. 5	37514. 474	858. 413
4. 4E-03	16. 389	97. 4	37448. 285	858. 540
5. 0E-03	16. 362	97. 3	37379. 062	858. 672
5. 7E-03	16. 327	97. 2	37301. 632	858. 820
6. 6E-03	16. 293	97. 1	37215. 702	858. 984
7. 5E-03	16. 248	96. 9	37117. 543	859. 171
8. 5E-03	16. 199	96. 8	37000. 714	859. 393
9. 7E-03	16. 140	96. 6	36866. 535	859. 648
1. 1E-02	16. 075	96. 4	36713. 371	859. 938
1. 3E-02	16. 000	96. 2	36539. 375	860. 266
1. 4E-02	15. 921	95. 9	36347. 923	860. 626
1. 6E-02	15. 827	95. 6	36133. 962	861. 027
1. 9E-02	15. 722	95. 3	35888. 458	861. 485
2. 1E-02	15. 604	94. 9	35613. 948	861. 994
2. 4E-02	15. 477	94. 5	35313. 403	862. 549
2. 7E-02	15. 335	94. 0	34983. 382	863. 154
3. 1E-02	15. 171	93. 5	34607. 744	863. 838
3. 5E-02	14. 988	92. 9	34183. 393	864. 603
3. 9E-02	14. 785	92. 2	33713. 800	865. 443
4. 4E-02	14. 562	91. 4	33196. 500	866. 357
5. 0E-02	14. 314	90. 6	32626. 401	867. 353
5. 6E-02	14. 046	89. 7	32003. 826	868. 424
6. 3E-02	13. 751	88. 6	31326. 962	869. 569
7. 0E-02	13. 434	87. 5	30595. 225	870. 785
7. 8E-02	13. 090	86. 2	29806. 963	872. 065
8. 8E-02	12. 725	84. 9	28965. 537	873. 399
9. 7E-02	12. 338	83. 4	28077. 618	874. 767
0. 108	11. 929	81. 8	27141. 931	876. 162
0. 120	11. 501	80. 1	26164. 475	877. 566
0. 133	11. 057	78. 3	25150. 920	878. 958

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		
		<b>Rev. : 3    Class: 2</b>	

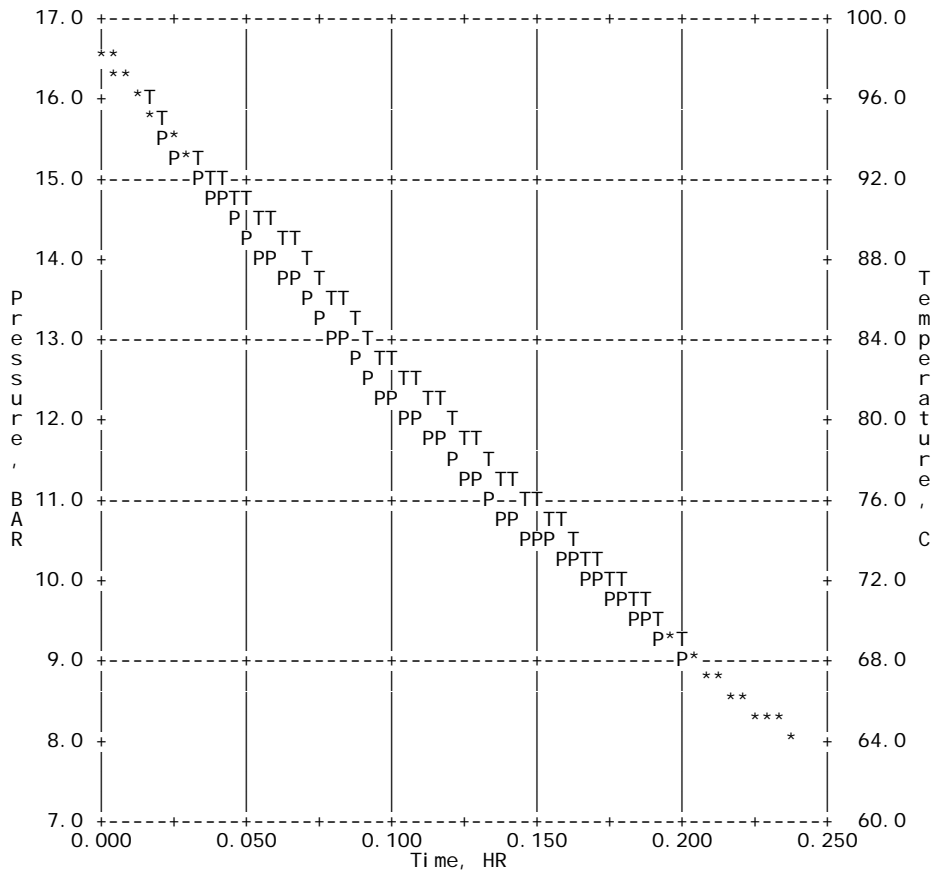
0. 146	10. 603	76. 4	24111. 862	880. 316
0. 161	10. 130	74. 3	23046. 125	881. 626
0. 176	9. 651	72. 1	21957. 088	882. 873
0. 193	9. 167	69. 9	20860. 436	884. 027
0. 210	8. 681	67. 5	19761. 531	885. 068
0. 228	8. 201	65. 0	18672. 599	885. 976
0. 238	7. 959	63. 8	17862. 218	886. 584
UNI T     1	SOLVED	-	' 115-BDV-0021-FI RE '	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '115-BDV-0021-FIRE', '115-BDV-0021-FIRE' (Cont)

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

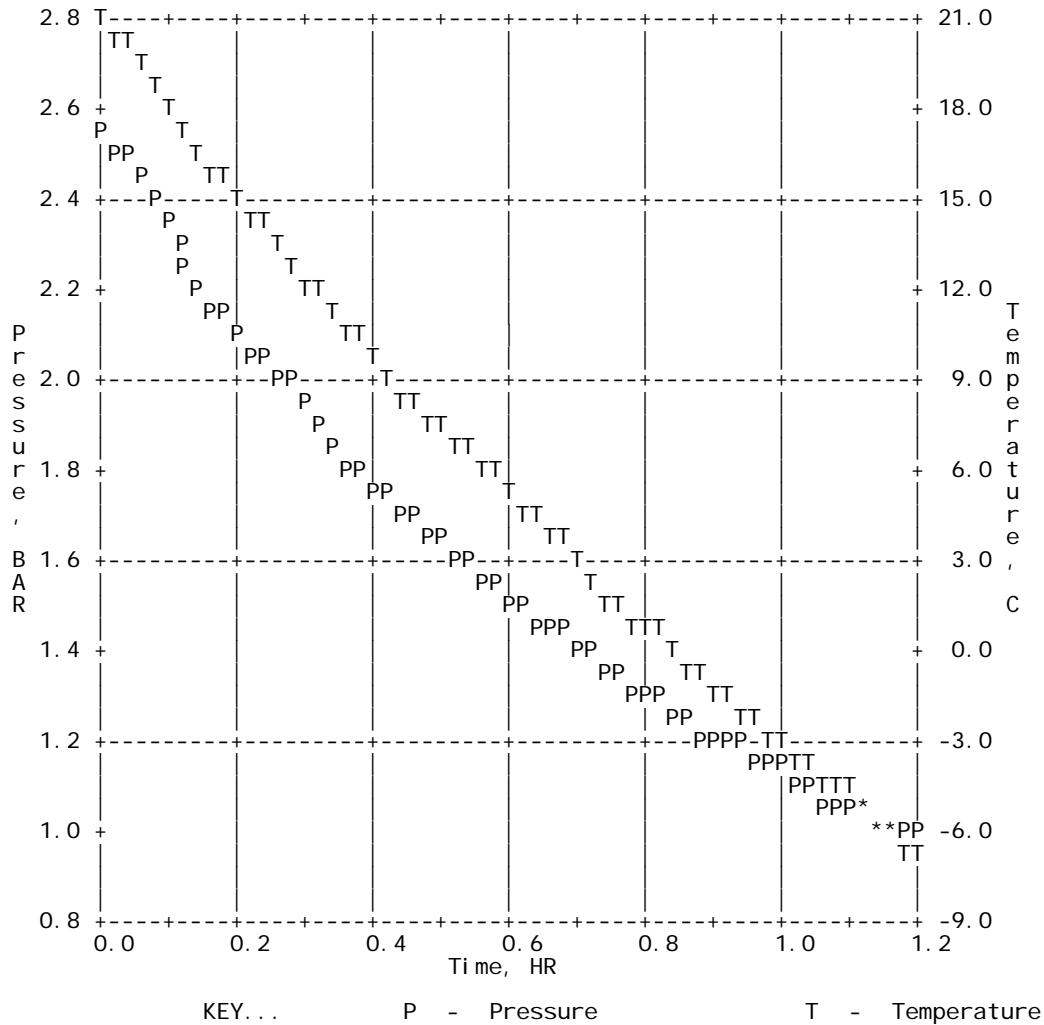
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	2.563	21.0	5728.001	876.900
5.0E-02	2.440	19.4	5594.344	876.358
1.0E-01	2.326	17.9	5336.652	875.249
0.150	2.217	16.4	5093.176	874.120
0.200	2.116	15.0	4864.217	872.981
0.250	2.022	13.6	4652.149	871.853
0.300	1.934	12.3	4453.292	870.725
0.350	1.853	11.0	4267.685	869.605
0.400	1.775	9.7	4093.153	868.490
0.450	1.701	8.5	3927.302	867.368
0.500	1.632	7.3	3770.851	866.251
0.550	1.567	6.1	3623.554	865.142
0.600	1.505	5.0	3484.031	864.036
0.650	1.446	3.9	3351.312	862.931
0.700	1.391	2.8	3226.285	861.839
0.750	1.340	1.7	3109.174	860.767
0.800	1.290	7.1E-01	2997.979	859.703
0.850	1.244	-2.8E-01	2892.379	858.647
0.900	1.199	-1.3	2791.668	857.597
0.925	1.177	-1.8	2717.986	856.797
0.975	1.137	-2.7	2649.520	856.035
1.025	1.098	-3.6	2561.458	855.018
1.075	1.061	-4.5	2476.850	854.002
1.125	1.026	-5.4	2397.099	853.007
1.150	1.009	-5.8	2339.378	852.261
1.200	0.976	-6.7	2284.228	851.533
UNIT	2	SOLVED	- ' 115-BDV-0021-COLD '	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '115-BDV-0021-COLD' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

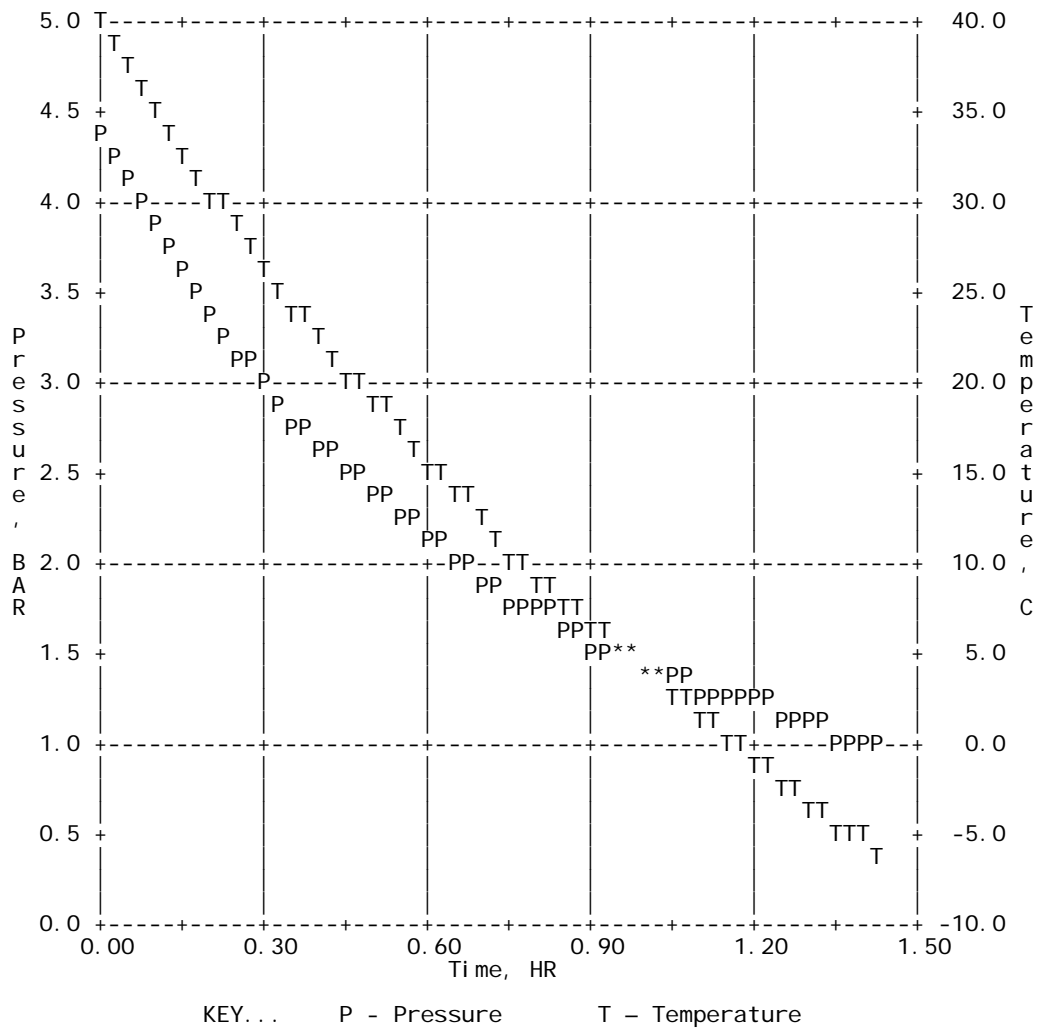
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	4.433	40.0	9803.749	886.243
5.0E-02	4.141	37.5	9484.995	885.836
1.0E-01	3.867	35.1	8867.930	884.937
0.150	3.619	32.8	8299.057	883.942
0.200	3.392	30.5	7781.328	882.878
0.250	3.181	28.4	7304.854	881.749
0.300	2.989	26.3	6866.453	880.565
0.350	2.811	24.3	6463.619	879.340
0.400	2.650	22.3	6094.603	878.088
0.450	2.501	20.5	5756.931	876.821
0.500	2.360	18.7	5441.394	875.520
0.550	2.232	16.9	5148.408	874.200
0.600	2.113	15.2	4878.157	872.875
0.650	2.003	13.6	4627.409	871.544
0.700	1.900	12.0	4395.045	870.214
0.750	1.807	10.5	4180.579	868.895
0.800	1.717	9.0	3980.547	867.578
0.850	1.635	7.6	3792.988	866.260
0.900	1.558	6.2	3618.078	864.952
0.950	1.486	4.9	3454.452	863.651
1.000	1.419	3.6	3301.452	862.363
1.050	1.356	2.3	3158.492	861.089
1.100	1.297	1.1	3024.699	859.832
1.150	1.243	-7.0E-02	2899.216	858.589
1.200	1.191	-1.2	2782.238	857.371
1.250	1.142	-2.3	2670.942	856.156
1.300	1.096	-3.4	2565.557	854.949
1.350	1.052	-4.5	2465.989	853.755
1.400	1.011	-5.5	2372.001	852.576
1.425	0.992	-6.0	2305.099	851.700
UNIT	3	SOLVED	- ' 115-BDV-0021-SPURIOUS	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '115-BDV-0021-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.13.5 BDV 0027 / 0028



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
115-C-102									38.0	0
	<b>TOTAL</b>								41.8	0

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
115-C-102		38.0						50.3
	<b>TOTAL</b>	41.8						<b>55.3</b>

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

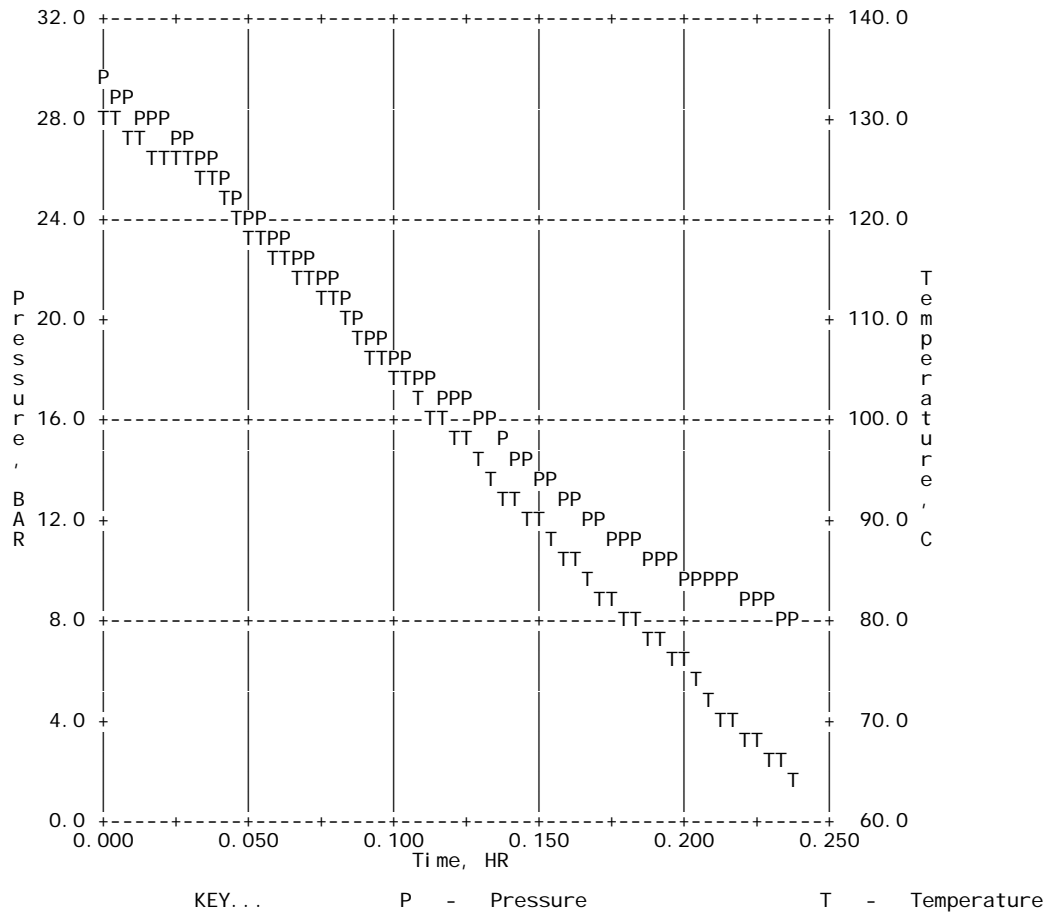
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE ---- M3/HR
0.000	29.413	130.1	77611.942	796.802
2.5E-05	29.404	130.0	77595.734	796.847
6.4E-05	29.392	130.0	77557.889	796.952
1.2E-04	29.389	130.0	77529.700	797.030
2.0E-04	29.377	130.0	77502.750	797.105
3.1E-04	29.373	130.0	77475.333	797.181
4.6E-04	29.360	130.0	77444.528	797.266
6.7E-04	29.340	129.9	77384.553	797.432
9.6E-04	29.320	129.9	77312.192	797.632
1.3E-03	29.282	129.8	77207.789	797.920
1.9E-03	29.230	129.7	77045.388	798.369
2.6E-03	29.157	129.5	76821.629	798.986
3.6E-03	29.058	129.3	76514.897	799.829
5.0E-03	28.921	129.1	76094.428	800.982
6.9E-03	28.732	128.7	75517.591	802.558
9.5E-03	28.471	128.1	74729.471	804.699
1.3E-02	28.120	127.4	73668.816	807.559
1.8E-02	27.644	126.4	72253.195	811.338
2.4E-02	26.992	125.0	70358.381	816.328
3.1E-02	26.130	123.1	67874.466	822.760
4.0E-02	25.205	121.1	65015.382	830.053
4.8E-02	24.261	118.9	62103.115	837.330
5.7E-02	23.304	116.6	59217.776	844.378
6.5E-02	22.343	114.3	56377.698	851.156
7.4E-02	21.375	111.9	53586.064	857.656
8.3E-02	20.415	109.4	50854.876	863.856
9.1E-02	19.460	106.8	48196.604	869.730
0.100	18.511	104.1	45603.817	875.296
0.110	17.574	101.4	43080.276	880.550
0.119	16.652	98.6	40633.264	885.478
0.128	15.741	95.8	38258.169	890.089
0.138	14.861	92.9	35970.301	894.358
0.148	13.988	89.9	33760.729	898.296
0.158	13.133	86.8	31610.176	901.942
0.169	12.303	83.7	29538.105	905.258
0.179	11.497	80.5	27547.503	908.237
0.191	10.713	77.3	25632.029	910.887
0.202	9.959	73.9	23797.025	913.198
0.214	9.230	70.6	22041.707	915.169
0.226	8.529	67.1	20362.362	916.802
0.239	7.853	63.6	18757.555	918.092
UNIT	1	SOLVED	- ' 115-BDV-0027-FI RE '	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, '115-BDV-0027-FIRE', '115-BDV-0027-FIRE' (Cont)

Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

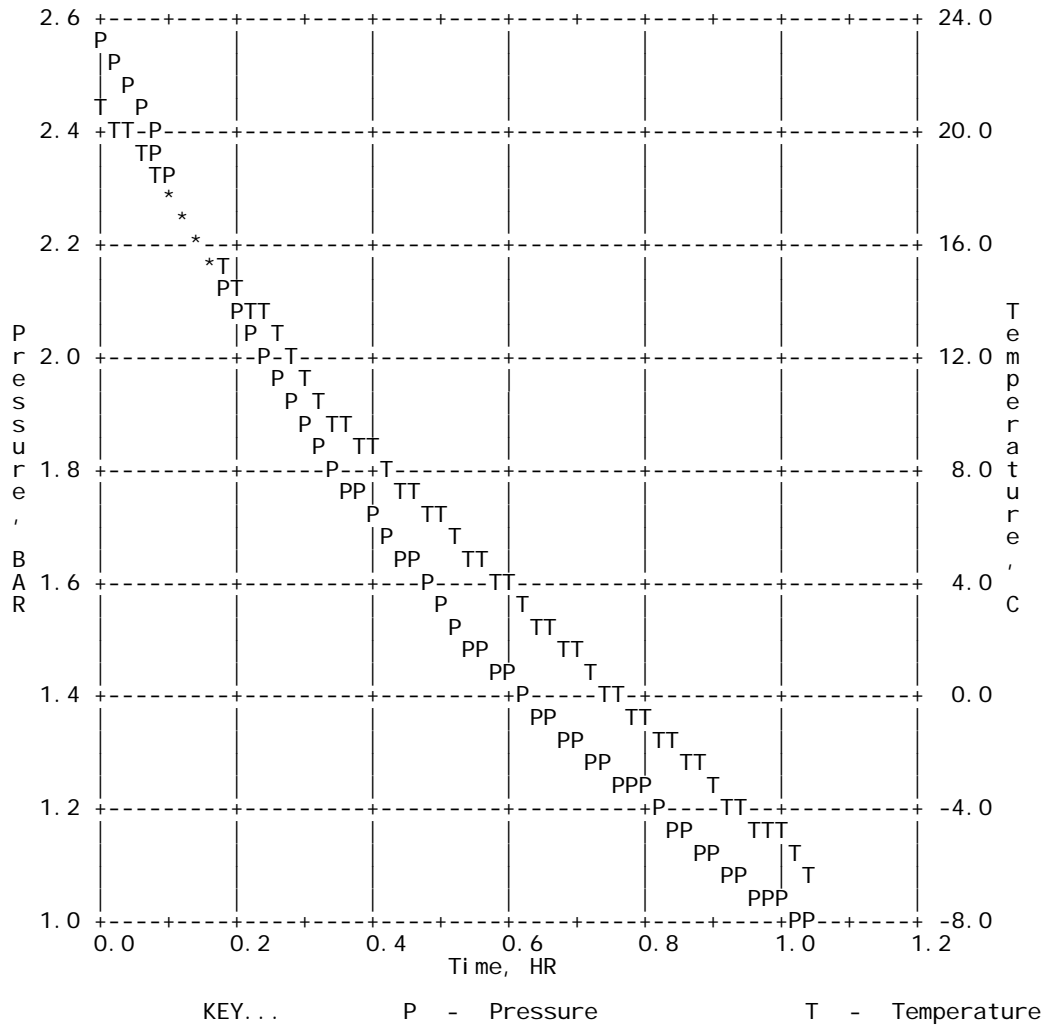
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT KG/HR	RATE M3/HR
0.000	2.563	21.0	5932.573	908.218
5.0E-02	2.426	19.3	5778.597	907.593
1.0E-01	2.300	17.6	5482.013	906.304
0.150	2.183	16.0	5207.090	905.008
0.200	2.074	14.4	4951.779	903.708
0.250	1.973	12.9	4714.669	902.410
0.300	1.877	11.4	4491.725	901.101
0.350	1.788	10.0	4282.530	899.788
0.400	1.706	8.6	4088.391	898.488
0.450	1.629	7.3	3907.026	897.197
0.475	1.592	6.6	3778.215	896.227
0.525	1.523	5.3	3658.136	895.291
0.575	1.458	4.1	3505.122	894.036
0.625	1.395	2.9	3358.977	892.771
0.675	1.337	1.7	3220.856	891.511
0.725	1.283	5.6E-01	3092.992	890.284
0.775	1.231	-5.5E-01	2972.515	889.071
0.825	1.183	-1.6	2858.443	887.867
0.875	1.137	-2.7	2750.846	886.678
0.925	1.094	-3.7	2649.125	885.504
0.975	1.053	-4.7	2552.888	884.344
1.025	1.015	-5.7	2462.519	883.208
1.050	0.997	-6.1	2397.554	882.359
UNIT	2	SOLVED	- ' 115-BDV-0027-COLD	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, '115-BDV-0027-COLD' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

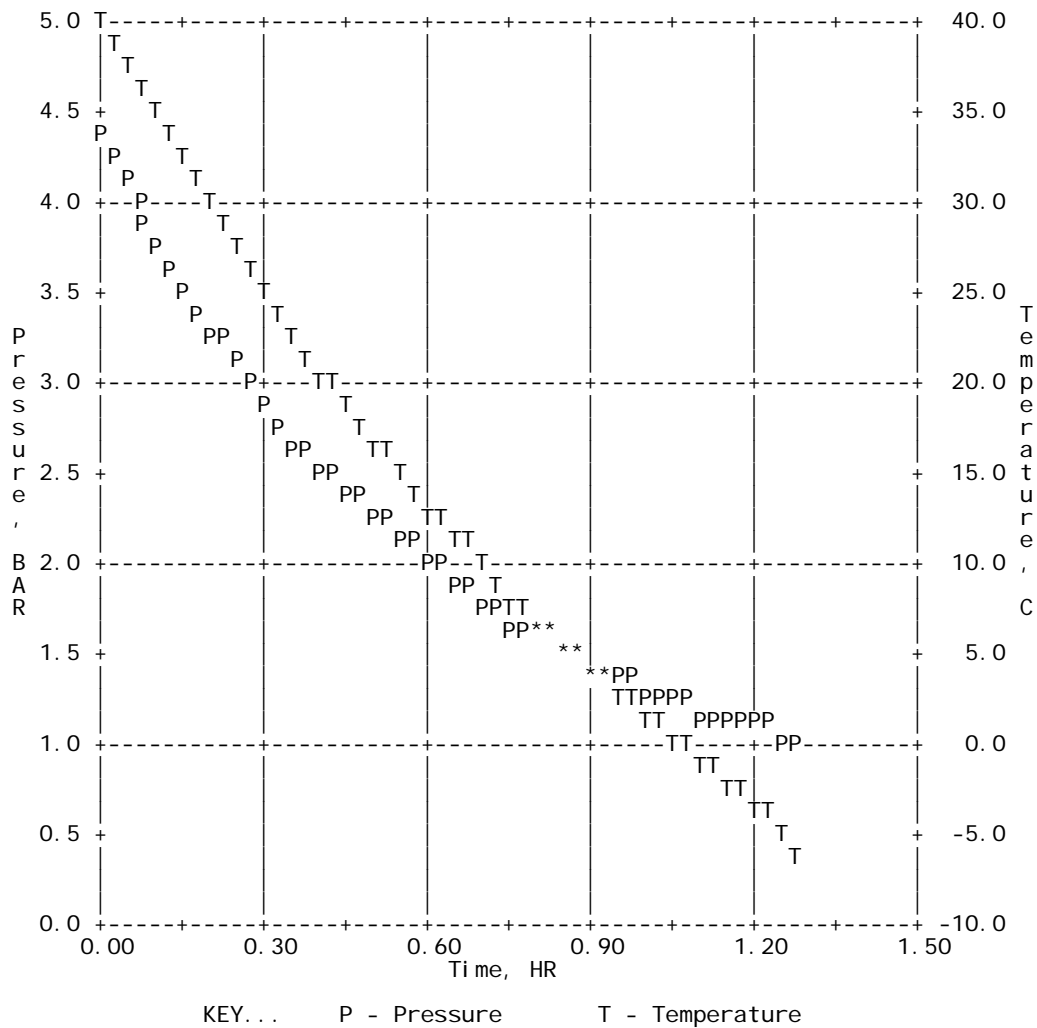
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	4.433	40.0	10153.883	917.894
5.0E-02	4.102	37.2	9780.439	917.413
1.0E-01	3.804	34.5	9069.919	916.353
0.150	3.533	32.0	8427.703	915.183
0.200	3.288	29.5	7845.744	913.921
0.250	3.065	27.1	7317.436	912.586
0.300	2.861	24.9	6836.908	911.192
0.350	2.676	22.7	6398.522	909.751
0.400	2.506	20.6	5998.109	908.274
0.450	2.352	18.6	5632.268	906.772
0.500	2.211	16.6	5298.698	905.260
0.550	2.080	14.8	4992.129	903.736
0.600	1.961	13.0	4708.922	902.200
0.650	1.850	11.2	4447.883	900.662
0.700	1.748	9.6	4207.216	899.128
0.750	1.655	8.0	3986.005	897.609
0.800	1.567	6.4	3780.376	896.094
0.850	1.487	4.9	3589.814	894.591
0.900	1.412	3.5	3413.037	893.103
0.950	1.344	2.1	3249.236	891.636
1.000	1.279	7.2E-01	3097.077	890.190
1.050	1.219	-5.7E-01	2954.732	888.757
1.100	1.164	-1.8	2823.257	887.359
1.150	1.112	-3.0	2700.020	885.977
1.200	1.063	-4.2	2583.788	884.605
1.250	1.017	-5.4	2475.182	883.257
1.275	0.996	-5.9	2398.687	882.262
UNIT	3	SOLVED	- ' 115-BDV-0027-SPURIOUS	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, '115-BDV-0027-SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

## 5.14 UNIT 116

### 5.14.1 BDV 0028(Winter Case)



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTE D AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
SDV-0004	116-E-101	S1	VAPOR	0	0	57646	29.435	0	1	0.00	109.01	48.24	0.00
116-E-101	116-D-101	S2	MIXED	188.65	992.11	57457	32.2	0.0001	0.9999	0.09	27.90	11.43	0.57
116-D-101	SDV-0022	184	WATER	188.8	992.15	0	0	1	0	18.80	0.00		1.54
116-D-101	116-D-102A/B	183	VAPOR	0	0	57457	32.044	0	1	0.00	34.71	14.29	0.00
		183/184			992.15		32.044			1382.88	65.22	13.74	5.70
	116-E-101	S2			992.11		32.2			347.24	45.08	14.17	
TOTAL										1749.01	281.92	101.87	7.81

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	Total Volume
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
SDV-0004	116-E-101	12	12.75	D01	323.9	30	8.38	307.09	12.090	10	40	0	3.70	3.70
116-E-101	116-D-101	12	12.75	D03	323.9	40	10.31	303.23	11.938	2	10	0.0001	0.867	0.867
116-D-101	SDV-0022	2	2.37	D03	60.2	80	5.54	49.12	1.934	0	10	0.019	0.000	0.019
116-D-101	116-D-102A/B	12	12.75	D03	323.9	40	10.31	303.23	11.938	5	10	0.000	1.083	1.083
	116-D-101											1.39	2.04	3.43
	116-E-101											0.35	1.4	1.75
TOTAL												1.76		10.85

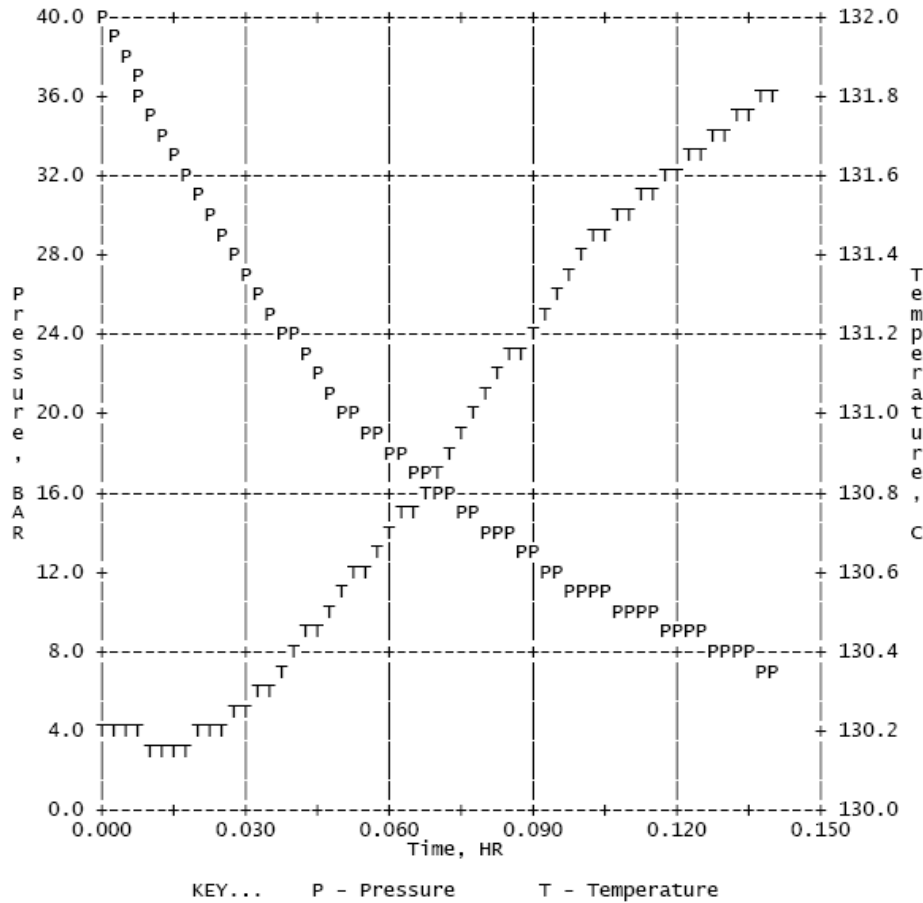
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	130.2	5508.482	142.326
1.4E-02	33.012	130.2	4996.883	143.193
3.0E-02	26.859	130.3	4043.282	145.114
4.8E-02	20.981	130.5	3186.890	147.112
7.1E-02	15.571	130.8	2397.131	149.434
0.100	10.839	131.4	1698.159	152.411
0.140	7.060	131.8	1119.066	156.741
UNIT 11	SOLVED	-	'116-BDV-0028-F	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 11, 'DP1', '116-BDV-0028 Fire' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

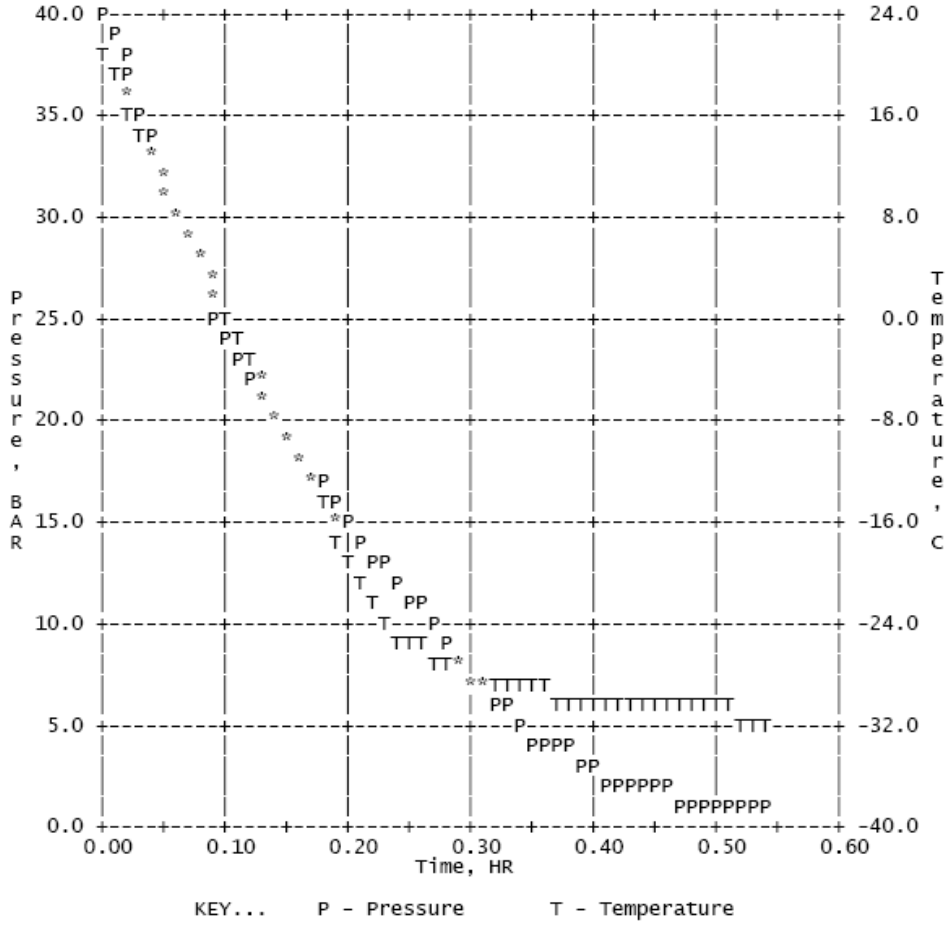
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	21.4	8600.083	91.162
7.6E-03	38.647	19.7	8400.228	91.752
1.5E-02	37.334	18.2	8015.068	92.902
2.3E-02	36.032	16.5	7653.767	93.939
3.0E-02	34.746	14.9	7309.632	94.892
3.8E-02	33.478	13.2	6981.401	95.768
4.6E-02	32.235	11.6	6668.258	96.575
5.4E-02	31.023	9.9	6370.279	97.316
6.1E-02	29.837	8.2	6086.169	97.997
6.9E-02	28.683	6.5	5814.901	98.625
7.7E-02	27.561	4.9	5556.208	99.203
8.5E-02	26.467	3.2	5308.703	99.736
9.3E-02	25.408	1.5	5072.207	100.227
0.101	24.437	-9.6E-02	4852.606	100.665
0.110	23.439	-1.8	4642.439	101.066
0.118	22.477	-3.4	4435.594	101.448
0.126	21.547	-5.1	4238.200	101.798
0.134	20.652	-6.7	4049.698	102.119
0.143	19.790	-8.3	3869.929	102.411
0.151	18.960	-10.0	3698.426	102.677
0.159	18.158	-11.6	3534.407	102.919
0.168	17.392	-13.1	3377.898	103.138
0.177	16.650	-14.7	3228.398	103.336
0.185	15.938	-16.3	3085.223	103.514
0.194	15.255	-17.8	2948.592	103.674
0.203	14.597	-19.3	2817.938	103.817
0.211	13.965	-20.8	2692.898	103.944
0.220	13.357	-22.3	2573.210	104.056
0.229	12.771	-23.7	2458.354	104.157
0.238	12.204	-25.1	2347.786	104.247
0.247	11.420	-25.9	2213.152	104.609
0.256	10.580	-26.3	2046.652	105.343
0.266	9.749	-26.8	1876.904	106.146
0.276	8.928	-27.3	1711.980	106.918
0.287	8.118	-27.7	1551.658	107.661
0.298	7.320	-28.1	1396.039	108.376
0.310	6.537	-28.5	1245.224	109.063
0.323	5.771	-28.9	1099.331	109.721
0.337	5.022	-29.2	958.510	110.352
0.353	4.295	-29.6	822.961	110.953
0.371	3.591	-29.9	692.956	111.525
0.392	2.914	-30.2	568.886	112.065
0.416	2.270	-30.5	451.329	112.572
0.445	1.665	-30.8	341.169	113.042
0.483	1.111	-31.0	239.822	113.466
0.535	0.627	-31.3	149.663	113.833
UNIT	19	SOLVED	- '116-BDV-0028-C	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 19, 'DP2', '116-BDV-0028 Cold' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

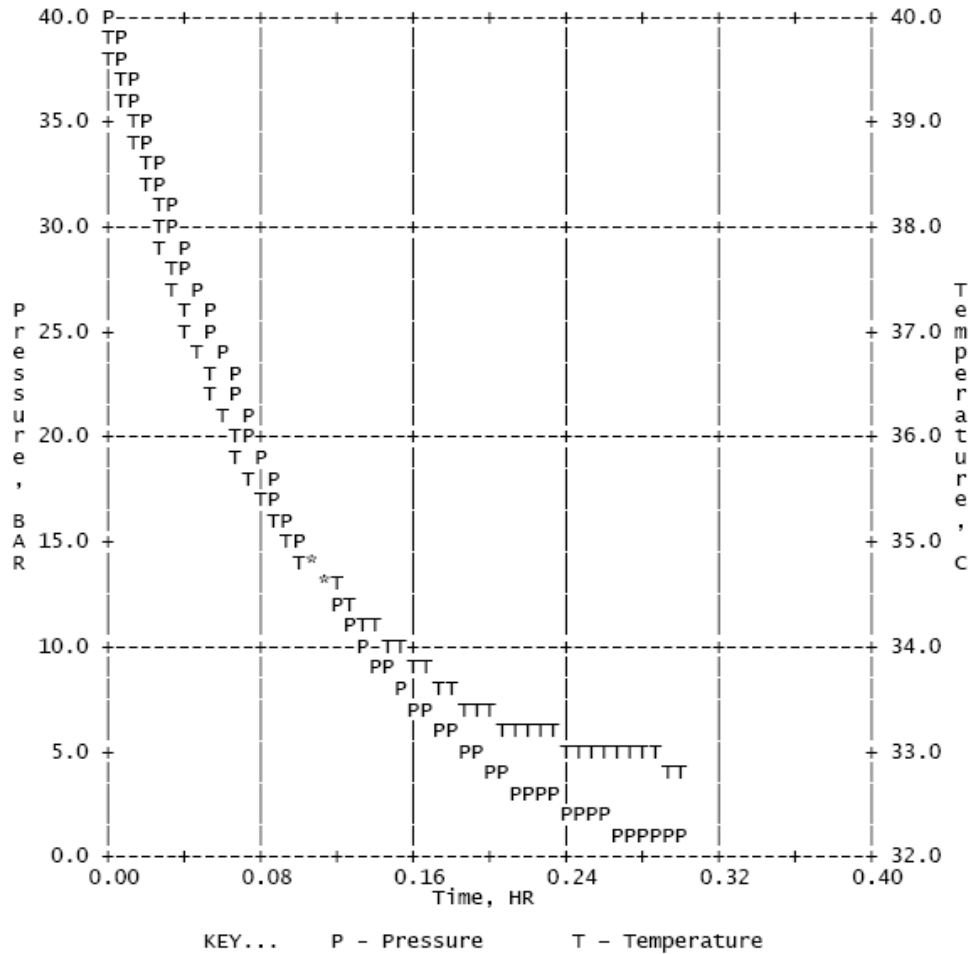
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	39.9	7346.574	106.716
1.3E-02	36.161	38.9	6907.889	108.047
2.6E-02	32.288	37.9	6053.366	110.815
4.1E-02	28.187	37.1	5223.905	113.451
5.7E-02	23.909	36.3	4400.360	116.022
7.6E-02	19.511	35.6	3590.907	118.496
9.8E-02	15.076	34.9	2804.762	120.848
0.125	10.735	34.4	2055.463	123.061
0.162	6.653	33.8	1362.410	125.075
0.188	4.647	33.5	874.303	126.661
0.218	3.115	33.2	596.377	127.543
0.246	2.107	33.0	399.009	128.264
0.274	1.425	32.9	268.657	128.862
0.303	0.968	32.8	181.205	129.447

UNIT 20 SOLVED - '116-BDV-0028-S

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 20, '116-BDV-0028-SPARIOUS'

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.2 BDV 0036(Winter Case)

FROM	TO	STREAM TAG	PHASE	LIQUID RATE kg/hr	LIQUID DENSITY kg/m3	VAPOR RATE kg/hr	VAPOR DENSITY kg/m3	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT kg	VAPOR WEIGHT kg	TOTAL AREA m2	Wetted Area m2
KV0031A/0032A	116-D-102A	183	VAPOR	0	0	57457	32.044	0	1	0.00	84.02	36.30	0.00
KV0039A	116-D-102A	186	VAPOR	0	0	4027	12.575	0	1	0.00	1.87	6.11	0.00
KV0038B	116-F-101A/B	S3	VAPOR	0	0	57349	31.072	0	1	0.00	29.92	12.54	0.00
116-D-102A	116-F-101A/B	S3	VAPOR	0	0	57349	31.072	0	1	0.00	138.08	57.89	0.00
116-F-101A/B	ESDV0045	191	VAPOR	0	0	53322	30.175	0	1	0.00	156.45	12.54	0.00
116-F-101A/B	ESDV0049/KV0048	185	VAPOR	0	0	4027	28.835	0	1	0.00	11.84	57.89	0.00
116-F-101A/B	KV0063	185	VAPOR	0	0	4027	28.835	0	1	0.00	14.21	67.53	0.00
	116-D-102A	S3	VAPOR		0		31.072			0.00	1037.08	63.59	0.00
	116-F-101A/B	191	VAPOR		0		30.175			0.00	600.48		
	TOTAL										2073.94	314.38	0.00

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
KV0031A/0032A	116-D-102A	12	13	F03	323.9	80	17.48	288.9	11.374	0	40	0.000	2.622	2.622
KV0039A	116-D-102A	4	4.5	F01	114.3	80	8.56	97.18	3.826	0	20	0.000	0.148	0.148
KV0038B	116-F-101A/B	12	13	D01	323.9	30	8.38	307.1	12.090	5	8	0.000	0.963	0.963
116-D-102A	116-F-101A/B	12	13	D01	323.9	30	8.38	307.1	12.090	20	40	0.000	4.444	4.444
116-F-101A/B	ESDV0045	12	13	D01	323.9	30	8.38	307.1	12.090	10	60	0.000	5.185	5.185
116-F-101A/B	ESDV0049/KV0048	4	4.5	D01	114.3	40	6.02	102.3	4.026	20	30	0.000	0.411	0.411
116-F-101A/B	KV0063	4	4.5	D01	114.3	40	6.02	102.3	4.026	20	40	0.000	0.493	0.493
	116-D-102A											0.000	33.38	33.38
	116-F-101A/B											0.000	19.9	19.90
	TOTAL											0.00		67.54

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

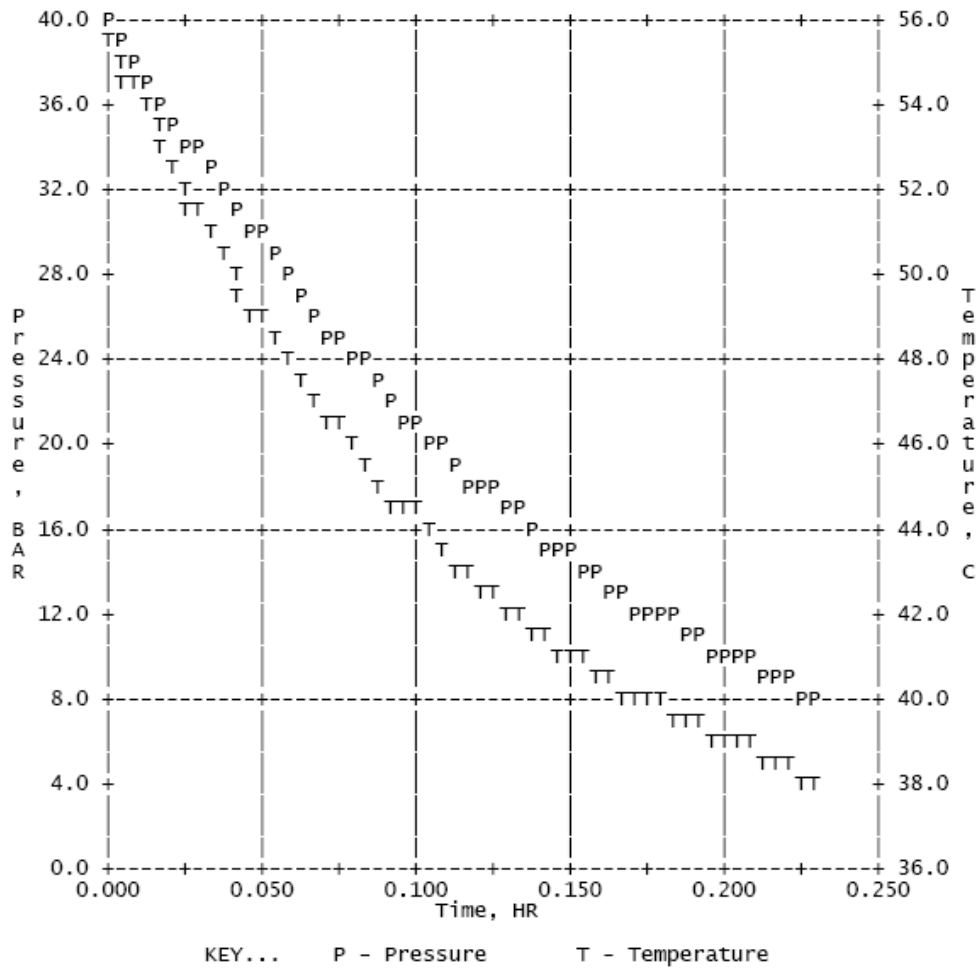
\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	55. 5	29705. 868	501. 046
5. 4E-03	38. 718	54. 7	29175. 894	501. 971
1. 1E-02	37. 494	53. 9	28142. 947	503. 827
1. 6E-02	36. 303	53. 1	27153. 675	505. 635
2. 1E-02	35. 144	52. 4	26197. 155	507. 411
2. 6E-02	34. 018	51. 7	25272. 487	509. 153
3. 2E-02	32. 922	51. 0	24378. 639	510. 860
3. 7E-02	31. 856	50. 3	23514. 630	512. 532
4. 2E-02	30. 821	49. 7	22679. 516	514. 166
4. 7E-02	29. 814	49. 1	21872. 390	515. 763
5. 2E-02	28. 835	48. 5	21092. 379	517. 323
5. 7E-02	27. 884	48. 0	20338. 637	518. 844
6. 2E-02	26. 960	47. 4	19610. 352	520. 327
6. 8E-02	26. 063	46. 9	18906. 732	521. 773
7. 3E-02	25. 192	46. 4	18226. 933	523. 182
7. 8E-02	24. 346	46. 0	17570. 142	524. 554
8. 3E-02	23. 525	45. 5	16935. 684	525. 890
8. 8E-02	22. 728	45. 1	16322. 891	527. 186
9. 3E-02	21. 954	44. 7	15731. 090	528. 445
9. 8E-02	21. 204	44. 3	15159. 626	529. 666
0. 103	20. 476	43. 9	14607. 865	530. 850
0. 108	19. 771	43. 5	14075. 211	531. 998
0. 113	19. 087	43. 2	13561. 082	533. 111
0. 118	18. 425	42. 9	13064. 885	534. 191
0. 123	17. 783	42. 5	12586. 047	535. 238
0. 128	17. 162	42. 2	12124. 011	536. 253
0. 133	16. 560	41. 9	11678. 232	537. 236
0. 138	15. 978	41. 7	11248. 183	538. 188
0. 142	15. 414	41. 4	10833. 352	539. 109
0. 147	14. 868	41. 1	10433. 240	540. 001
0. 152	14. 340	40. 9	10047. 362	540. 864
0. 157	13. 830	40. 7	9675. 248	541. 698
0. 162	13. 336	40. 4	9316. 440	542. 505
0. 167	12. 859	40. 2	8970. 495	543. 286
0. 172	12. 397	40. 0	8636. 980	544. 040
0. 177	11. 951	39. 8	8315. 478	544. 769
0. 182	11. 520	39. 6	8005. 582	545. 473
0. 186	11. 104	39. 4	7706. 897	546. 153
0. 191	10. 701	39. 3	7419. 042	546. 810
0. 196	10. 313	39. 1	7141. 645	547. 444
0. 201	9. 937	38. 9	6874. 347	548. 056
0. 206	9. 575	38. 8	6616. 799	548. 648
0. 211	9. 225	38. 6	6368. 663	549. 218
0. 215	8. 888	38. 5	6129. 612	549. 769
0. 220	8. 562	38. 4	5899. 329	550. 300
0. 225	8. 247	38. 2	5677. 506	550. 812
0. 227	8. 094	38. 2	5515. 786	551. 190
0. 230	7. 933	38. 1	5407. 273	551. 441
UNI T	11	SOLVED	- ' 116-BDV-0036-F	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 11, 'DP1', '116-BDV-0036 fire' (cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

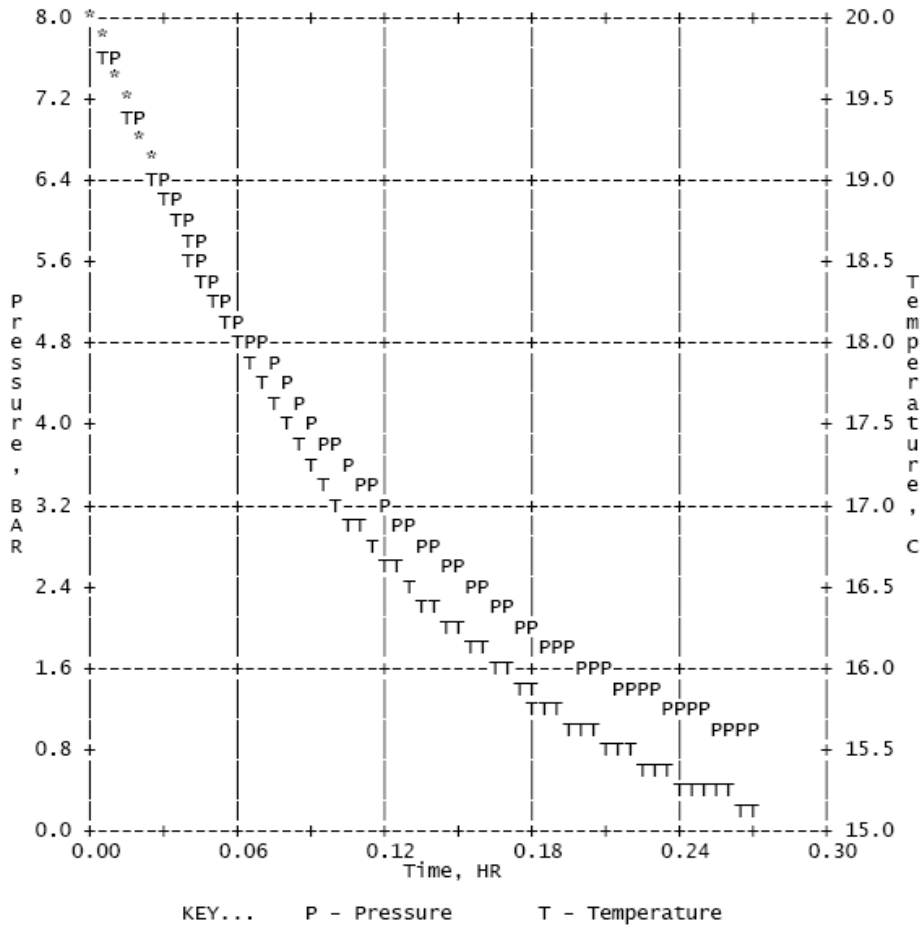
\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.000	20.0	5599.708	531.599
5.1E-03	7.701	19.8	5492.393	531.844
1.0E-02	7.417	19.6	5283.760	532.330
1.5E-02	7.144	19.4	5084.813	532.792
2.0E-02	6.880	19.2	4893.160	533.236
2.5E-02	6.626	19.0	4708.585	533.664
3.0E-02	6.380	18.9	4530.845	534.076
3.5E-02	6.144	18.7	4359.697	534.473
4.0E-02	5.916	18.5	4194.904	534.857
4.5E-02	5.696	18.4	4036.238	535.226
5.0E-02	5.484	18.2	3883.479	535.582
5.5E-02	5.279	18.1	3736.414	535.925
6.0E-02	5.082	18.0	3594.837	536.256
6.5E-02	4.892	17.8	3458.548	536.575
7.0E-02	4.709	17.7	3327.357	536.882
7.4E-02	4.533	17.6	3201.076	537.178
7.9E-02	4.363	17.5	3079.528	537.463
8.4E-02	4.199	17.3	2962.539	537.738
8.9E-02	4.042	17.2	2849.943	538.003
9.4E-02	3.890	17.1	2741.577	538.258
9.9E-02	3.744	17.0	2637.288	538.503
0.104	3.603	16.9	2536.924	538.740
0.109	3.467	16.8	2440.341	538.968
0.114	3.336	16.7	2347.399	539.187
0.119	3.210	16.7	2257.964	539.398
0.124	3.089	16.6	2171.906	539.602
0.129	2.972	16.5	2089.099	539.798
0.133	2.860	16.4	2009.423	539.986
0.138	2.752	16.3	1932.762	540.168
0.143	2.647	16.3	1859.002	540.342
0.148	2.547	16.2	1788.037	540.511
0.153	2.451	16.1	1719.761	540.672
0.158	2.358	16.1	1654.074	540.828
0.163	2.268	16.0	1590.880	540.978
0.168	2.182	16.0	1530.084	541.123
0.173	2.099	15.9	1471.598	541.262
0.178	2.019	15.8	1415.334	541.395
0.182	1.943	15.8	1361.209	541.524
0.187	1.869	15.7	1309.142	541.648
0.192	1.798	15.7	1259.057	541.767
0.197	1.729	15.7	1210.878	541.882
0.202	1.663	15.6	1164.533	541.992
0.207	1.600	15.6	1119.955	542.098
0.212	1.539	15.5	1077.074	542.201
0.217	1.480	15.5	1035.829	542.299
0.222	1.424	15.4	996.156	542.394
0.226	1.370	15.4	957.997	542.485
0.231	1.317	15.4	921.294	542.572
0.236	1.267	15.3	885.992	542.656
0.241	1.219	15.3	852.037	542.737
0.246	1.172	15.3	819.380	542.815
0.251	1.127	15.3	787.969	542.890
0.256	1.084	15.2	757.759	542.963

	0. 261	1. 043	15. 2	728. 704	543. 032
	0. 263	1. 023	15. 2	707. 544	543. 083
	0. 268	0. 983	15. 2	687. 062	543. 132
UNIT T	1	SOLVED	-	' 116-BDV-0036-C	

UNIT 1, 'DP2', '116-BDV-0036 cold' (Cont)

Pressure and Temperature Profiles









	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	55. 5	29705. 868	501. 046
5. 4E-03	38. 669	54. 4	29166. 779	501. 817
1. 1E-02	37. 402	53. 4	28116. 904	503. 366
1. 6E-02	36. 173	52. 4	27112. 807	504. 879
2. 1E-02	34. 980	51. 5	26143. 071	506. 369
2. 6E-02	33. 823	50. 6	25206. 673	507. 834
3. 2E-02	32. 700	49. 7	24302. 460	509. 273
3. 7E-02	31. 611	48. 8	23429. 334	510. 685
4. 2E-02	30. 554	48. 0	22586. 248	512. 068
4. 7E-02	29. 529	47. 2	21772. 197	513. 423
5. 2E-02	28. 534	46. 4	20986. 216	514. 748
5. 7E-02	27. 570	45. 7	20227. 379	516. 042
6. 3E-02	26. 635	44. 9	19494. 791	517. 307
6. 8E-02	25. 728	44. 2	18787. 592	518. 540
7. 3E-02	24. 849	43. 5	18104. 950	519. 743
7. 8E-02	23. 997	42. 9	17446. 063	520. 915
8. 3E-02	23. 172	42. 3	16810. 155	522. 057
8. 8E-02	22. 372	41. 6	16196. 473	523. 168
9. 3E-02	21. 597	41. 1	15604. 292	524. 249
9. 8E-02	20. 847	40. 5	15032. 906	525. 299
0. 103	20. 120	39. 9	14481. 633	526. 321
0. 108	19. 417	39. 4	13949. 811	527. 313
0. 113	18. 736	38. 9	13436. 800	528. 276
0. 118	18. 077	38. 4	12941. 978	529. 211
0. 123	17. 439	37. 9	12464. 741	530. 118
0. 128	16. 822	37. 4	12004. 506	530. 998
0. 133	16. 226	37. 0	11560. 703	531. 851
0. 138	15. 649	36. 6	11132. 785	532. 678
0. 143	15. 091	36. 2	10720. 216	533. 480
0. 148	14. 551	35. 8	10322. 480	534. 256
0. 153	14. 030	35. 4	9939. 075	535. 008
0. 158	13. 526	35. 0	9569. 515	535. 736
0. 163	13. 039	34. 6	9213. 328	536. 441
0. 168	12. 569	34. 3	8870. 057	537. 123
0. 173	12. 114	34. 0	8539. 259	537. 783
0. 178	11. 676	33. 6	8220. 505	538. 422
0. 183	11. 252	33. 3	7913. 379	539. 039
0. 188	10. 843	33. 0	7617. 478	539. 637
0. 193	10. 448	32. 8	7332. 412	540. 215
0. 198	10. 066	32. 5	7057. 777	540. 773
0. 202	9. 698	32. 2	6792. 999	541. 312
0. 207	9. 342	32. 0	6537. 734	541. 830
0. 212	8. 998	31. 7	6291. 830	542. 328
0. 217	8. 667	31. 5	6054. 959	542. 806
0. 222	8. 347	31. 3	5826. 817	543. 266
0. 227	8. 039	31. 1	5607. 109	543. 710
0. 232	7. 741	30. 8	5395. 534	544. 139
0. 237	7. 455	30. 6	5191. 802	544. 552
0. 241	7. 178	30. 4	4995. 631	544. 951
0. 246	6. 911	30. 3	4806. 751	545. 336
0. 251	6. 654	30. 1	4624. 899	545. 707
0. 256	6. 406	29. 9	4449. 822	546. 065

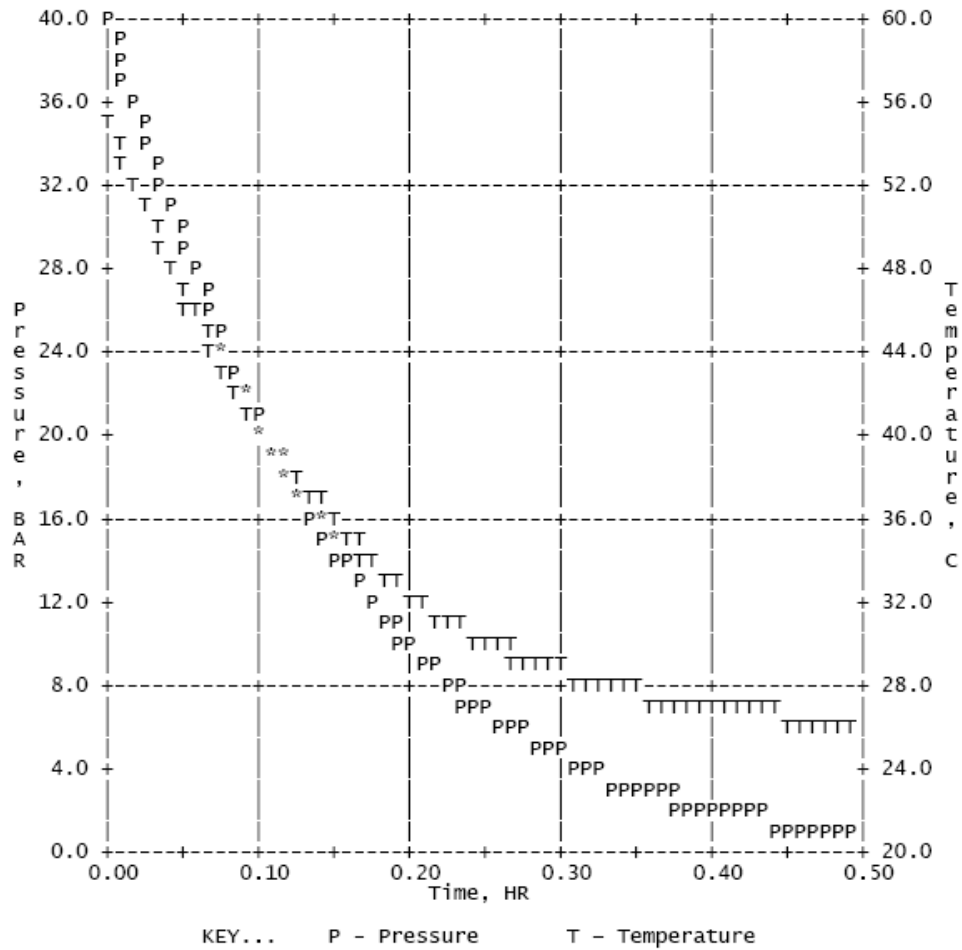
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

0. 261	6. 167	29. 7	4281. 274	546. 411
0. 266	5. 937	29. 6	4119. 019	546. 744
0. 271	5. 715	29. 4	3962. 829	547. 065
0. 275	5. 501	29. 3	3812. 483	547. 374
0. 280	5. 295	29. 1	3667. 768	547. 672
0. 285	5. 097	29. 0	3528. 479	547. 960
0. 290	4. 906	28. 9	3394. 416	548. 237
0. 295	4. 721	28. 7	3265. 388	548. 504
0. 300	4. 544	28. 6	3141. 211	548. 761
0. 304	4. 373	28. 5	3021. 705	549. 008
0. 309	4. 208	28. 4	2906. 700	549. 247
0. 314	4. 050	28. 3	2796. 028	549. 477
0. 319	3. 897	28. 2	2689. 530	549. 699
0. 324	3. 750	28. 1	2587. 051	549. 912
0. 329	3. 608	28. 0	2488. 442	550. 118
0. 333	3. 472	27. 9	2393. 560	550. 315
0. 338	3. 340	27. 8	2302. 265	550. 506
0. 343	3. 214	27. 7	2214. 426	550. 690
0. 348	3. 092	27. 6	2129. 912	550. 866
0. 353	2. 975	27. 5	2048. 600	551. 036
0. 357	2. 862	27. 5	1970. 370	551. 200
0. 362	2. 754	27. 4	1895. 108	551. 358
0. 367	2. 649	27. 3	1822. 701	551. 510
0. 372	2. 549	27. 3	1753. 043	551. 656
0. 377	2. 452	27. 2	1686. 032	551. 797
0. 381	2. 359	27. 1	1621. 566	551. 932
0. 386	2. 269	27. 1	1559. 552	552. 062
0. 391	2. 183	27. 0	1499. 897	552. 188
0. 396	2. 100	27. 0	1442. 512	552. 309
0. 401	2. 020	26. 9	1387. 311	552. 425
0. 405	1. 943	26. 9	1334. 212	552. 537
0. 410	1. 869	26. 8	1283. 136	552. 644
0. 415	1. 797	26. 8	1234. 007	552. 748
0. 420	1. 729	26. 7	1186. 751	552. 847
0. 425	1. 663	26. 7	1141. 297	552. 943
0. 429	1. 600	26. 6	1097. 577	553. 036
0. 434	1. 539	26. 6	1055. 525	553. 124
0. 439	1. 480	26. 5	1015. 078	553. 210
0. 444	1. 423	26. 5	976. 176	553. 292
0. 449	1. 369	26. 5	938. 760	553. 371
0. 453	1. 317	26. 4	902. 773	553. 447
0. 458	1. 266	26. 4	868. 161	553. 520
0. 463	1. 218	26. 4	834. 873	553. 591
0. 468	1. 171	26. 3	802. 856	553. 659
0. 472	1. 127	26. 3	772. 065	553. 724
0. 477	1. 083	26. 3	742. 451	553. 786
0. 482	1. 042	26. 3	713. 970	553. 847
0. 484	1. 022	26. 2	693. 228	553. 891
0. 489	0. 982	26. 2	673. 151	553. 933
UNI T	2	SOLVED	- ' 116-BDV-0036-S	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, 'DP3', '116-BDV-0036 spurious' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		
		<b>Rev. : 3    Class: 2</b>	

### 5.14.3 BDV 0055(Winter Case)

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTE D AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
SDV-0049	116-H-101	185	VAPOR	0	0	4027	28.835	0	1	0.00	9.00	12.21	0.00
116-H-101	116-D-102	186	VAPOR	0	0	4027	12.575	0	1	0.00	3.54	11.60	0.00
	116-H-101		VAPOR		0		12.375			0.00	7.43		
	TOTAL										19.97	23.81	0.00

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
SDV-0049	116-H-101	4	4.5	D01	114.3	40	6.02	102.26	4.026	8	30	0.000	0.312	0.312
116-H-101	116-D-102	4	4.5	F01	114.3	80	8.56	97.18	3.826	8	30	0.000	0.282	0.282
	116-H-101											0.000	0.60	0.60
	TOTAL											0.000		1.19

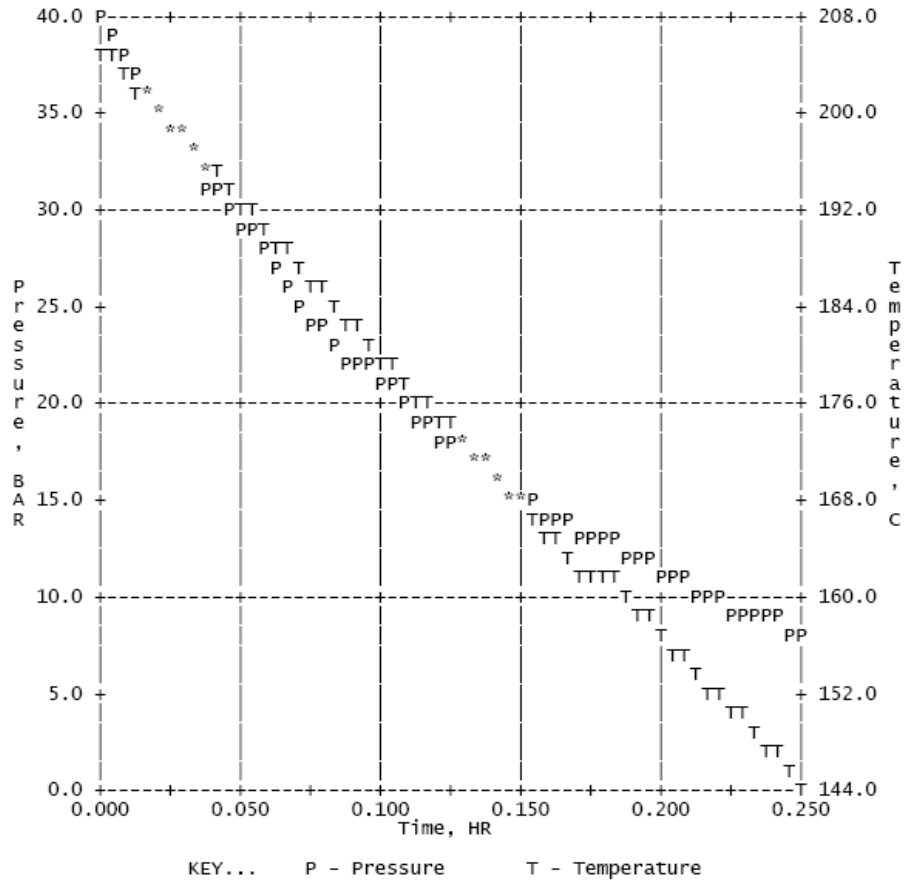
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	205. 2	212. 034	7. 970
6. 4E-03	38. 374	203. 6	207. 801	7. 967
1. 3E-02	36. 840	202. 0	199. 579	7. 961
1. 9E-02	35. 362	200. 3	191. 748	7. 955
2. 5E-02	33. 941	198. 7	184. 215	7. 947
3. 2E-02	32. 576	197. 1	176. 973	7. 940
3. 8E-02	31. 265	195. 4	170. 012	7. 933
4. 4E-02	30. 005	193. 8	163. 321	7. 925
5. 1E-02	28. 794	192. 2	156. 890	7. 917
5. 7E-02	27. 631	190. 5	150. 710	7. 909
6. 3E-02	26. 514	188. 9	144. 770	7. 901
7. 0E-02	25. 442	187. 3	139. 061	7. 893
7. 6E-02	24. 411	185. 7	133. 575	7. 884
8. 3E-02	23. 422	184. 1	128. 303	7. 876
8. 9E-02	22. 472	182. 6	123. 237	7. 867
9. 5E-02	21. 559	181. 0	118. 369	7. 858
0. 102	20. 683	179. 4	113. 691	7. 849
0. 108	19. 842	177. 8	109. 196	7. 840
0. 115	19. 035	176. 3	104. 877	7. 831
0. 121	18. 259	174. 7	100. 728	7. 821
0. 127	17. 515	173. 1	96. 741	7. 812
0. 134	16. 801	171. 6	92. 910	7. 802
0. 140	16. 115	170. 0	89. 230	7. 793
0. 147	15. 457	168. 5	85. 694	7. 783
0. 153	14. 825	167. 0	82. 297	7. 773
0. 160	14. 218	165. 4	79. 034	7. 763
0. 166	13. 636	163. 9	75. 899	7. 753
0. 173	13. 078	162. 4	72. 888	7. 743
0. 179	12. 542	160. 9	69. 995	7. 732
0. 186	12. 028	159. 3	67. 216	7. 722
0. 192	11. 534	157. 8	64. 546	7. 712
0. 199	11. 061	156. 3	61. 982	7. 701
0. 205	10. 606	154. 8	59. 519	7. 690
0. 212	10. 171	153. 3	57. 153	7. 680
0. 218	9. 752	151. 8	54. 881	7. 669
0. 225	9. 351	150. 3	52. 698	7. 658
0. 231	8. 966	148. 9	50. 602	7. 647
0. 238	8. 597	147. 4	48. 588	7. 636
0. 245	8. 243	145. 9	46. 654	7. 625
0. 247	8. 102	145. 3	45. 331	7. 617
0. 250	7. 964	144. 7	44. 585	7. 613
UNI T 11	SOLVED	- ' 116-BDV-0055-F		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 11, 'DP1', '116-BDV-0055 Fire' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	21. 4	399. 290	4. 233
1. 1E-02	39. 262	20. 7	393. 508	4. 255
2. 2E-02	38. 528	20. 0	382. 128	4. 300
3. 3E-02	37. 789	19. 4	371. 067	4. 345
4. 4E-02	37. 045	18. 9	360. 240	4. 388
5. 5E-02	36. 296	18. 3	349. 633	4. 431
6. 5E-02	35. 542	17. 8	339. 247	4. 473
7. 6E-02	34. 784	17. 3	329. 081	4. 515
8. 6E-02	34. 024	16. 8	319. 131	4. 555
9. 6E-02	33. 261	16. 3	309. 398	4. 594
0. 106	32. 498	15. 9	299. 880	4. 632
0. 117	31. 735	15. 4	290. 578	4. 670
0. 127	30. 973	15. 0	281. 489	4. 706
0. 137	30. 214	14. 6	272. 613	4. 741
0. 146	29. 458	14. 2	263. 951	4. 776
0. 156	28. 707	13. 9	255. 500	4. 809
0. 166	27. 961	13. 5	247. 260	4. 842
0. 176	27. 222	13. 2	239. 230	4. 873
0. 185	26. 490	12. 9	231. 407	4. 903
0. 195	25. 767	12. 6	223. 791	4. 933
0. 204	25. 052	12. 3	216. 379	4. 961
0. 214	24. 347	12. 0	209. 169	4. 989
0. 223	23. 652	11. 8	202. 158	5. 016
0. 232	22. 968	11. 5	195. 345	5. 042
0. 242	22. 296	11. 3	188. 726	5. 067
0. 251	21. 635	11. 0	182. 298	5. 091
0. 260	20. 987	10. 8	176. 058	5. 114
0. 269	20. 352	10. 6	170. 006	5. 137
0. 278	19. 728	10. 4	164. 132	5. 159
0. 288	19. 118	10. 2	158. 436	5. 180
0. 297	18. 522	10. 0	152. 916	5. 200
0. 306	17. 939	9. 8	147. 566	5. 219
0. 315	17. 369	9. 7	142. 385	5. 238
0. 324	16. 813	9. 5	137. 366	5. 257
0. 332	16. 270	9. 3	132. 508	5. 274
0. 341	15. 741	9. 2	127. 805	5. 291
0. 350	15. 226	9. 0	123. 255	5. 308
0. 359	14. 724	8. 9	118. 853	5. 323
0. 368	14. 236	8. 8	114. 596	5. 339
0. 377	13. 761	8. 6	110. 480	5. 353
0. 385	13. 299	8. 5	106. 500	5. 367
0. 394	12. 850	8. 4	102. 654	5. 381
0. 403	12. 414	8. 3	98. 938	5. 394
0. 411	11. 990	8. 2	95. 347	5. 407
0. 420	11. 579	8. 1	91. 879	5. 419
0. 429	11. 180	8. 0	88. 530	5. 431
0. 437	10. 793	7. 9	85. 296	5. 442
0. 446	10. 418	7. 8	82. 174	5. 453
0. 455	10. 055	7. 7	79. 161	5. 464
0. 463	9. 703	7. 6	76. 252	5. 474
0. 472	9. 362	7. 6	73. 446	5. 483
0. 480	9. 031	7. 5	70. 738	5. 493
0. 489	8. 712	7. 4	68. 126	5. 502

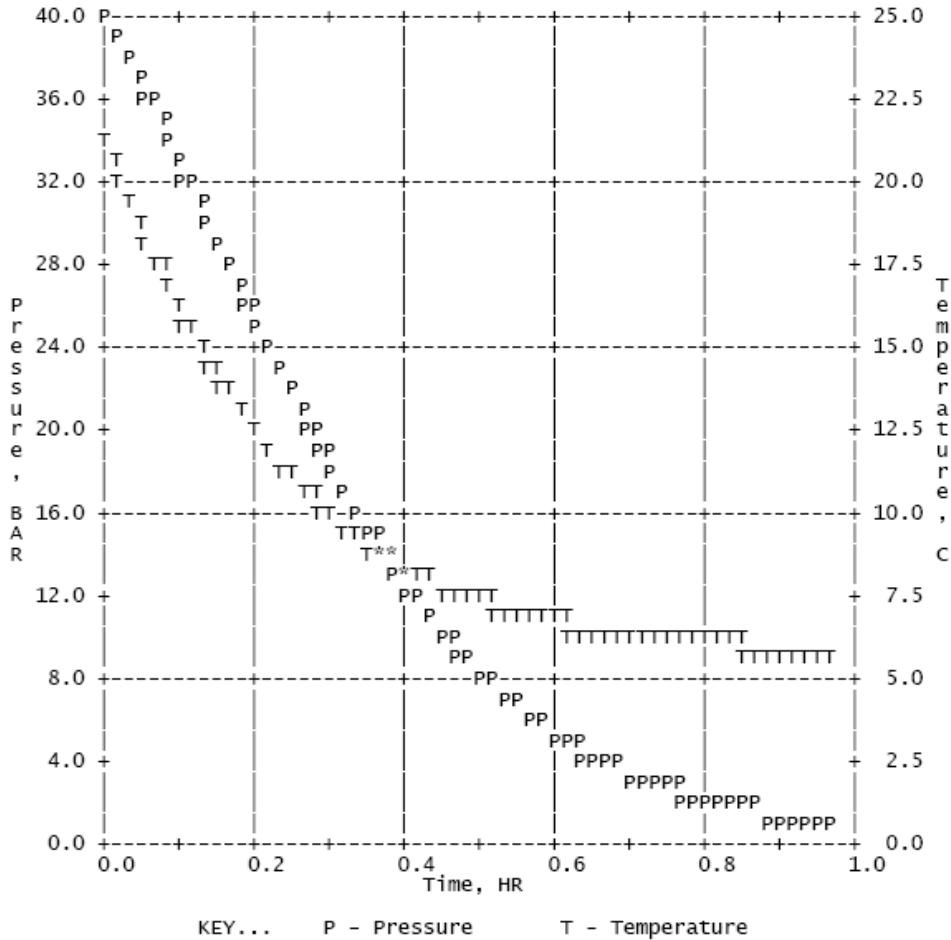
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		

0. 497	8. 402	7. 3	65. 606	5. 511
0. 506	8. 103	7. 3	63. 176	5. 519
0. 514	7. 813	7. 2	60. 833	5. 527
0. 523	7. 533	7. 1	58. 573	5. 535
0. 531	7. 262	7. 1	56. 395	5. 542
0. 540	7. 001	7. 0	54. 295	5. 550
0. 548	6. 748	7. 0	52. 270	5. 556
0. 556	6. 503	6. 9	50. 318	5. 563
0. 565	6. 267	6. 9	48. 436	5. 569
0. 573	6. 038	6. 8	46. 622	5. 576
0. 582	5. 818	6. 8	44. 875	5. 582
0. 590	5. 605	6. 7	43. 191	5. 587
0. 598	5. 400	6. 7	41. 569	5. 593
0. 607	5. 202	6. 6	40. 006	5. 598
0. 615	5. 010	6. 6	38. 501	5. 603
0. 624	4. 825	6. 6	37. 051	5. 608
0. 632	4. 647	6. 5	35. 655	5. 613
0. 640	4. 476	6. 5	34. 310	5. 617
0. 649	4. 310	6. 5	33. 015	5. 621
0. 657	4. 150	6. 4	31. 768	5. 626
0. 665	3. 996	6. 4	30. 567	5. 630
0. 674	3. 847	6. 4	29. 410	5. 633
0. 682	3. 704	6. 3	28. 297	5. 637
0. 690	3. 566	6. 3	27. 225	5. 641
0. 698	3. 433	6. 3	26. 194	5. 644
0. 707	3. 304	6. 3	25. 200	5. 647
0. 715	3. 181	6. 2	24. 244	5. 651
0. 723	3. 062	6. 2	23. 324	5. 654
0. 732	2. 947	6. 2	22. 438	5. 657
0. 740	2. 836	6. 2	21. 585	5. 660
0. 748	2. 730	6. 1	20. 765	5. 662
0. 756	2. 627	6. 1	19. 975	5. 665
0. 765	2. 528	6. 1	19. 215	5. 667
0. 773	2. 433	6. 1	18. 484	5. 670
0. 781	2. 341	6. 1	17. 780	5. 672
0. 789	2. 253	6. 0	17. 102	5. 674
0. 798	2. 168	6. 0	16. 451	5. 677
0. 806	2. 086	6. 0	15. 823	5. 679
0. 814	2. 007	6. 0	15. 220	5. 681
0. 822	1. 931	6. 0	14. 639	5. 683
0. 831	1. 858	6. 0	14. 081	5. 684
0. 839	1. 787	6. 0	13. 543	5. 686
0. 847	1. 720	5. 9	13. 026	5. 688
0. 855	1. 655	5. 9	12. 529	5. 690
0. 864	1. 592	5. 9	12. 050	5. 691
0. 872	1. 531	5. 9	11. 589	5. 693
0. 880	1. 473	5. 9	11. 146	5. 694
0. 888	1. 417	5. 9	10. 720	5. 695
0. 897	1. 363	5. 9	10. 310	5. 697
0. 905	1. 311	5. 9	9. 916	5. 698
0. 913	1. 261	5. 9	9. 537	5. 699
0. 921	1. 213	5. 8	9. 172	5. 701
0. 929	1. 167	5. 8	8. 821	5. 702
0. 938	1. 123	5. 8	8. 483	5. 703
0. 946	1. 080	5. 8	8. 158	5. 704
0. 954	1. 039	5. 8	7. 846	5. 705
0. 958	1. 019	5. 8	7. 618	5. 706
0. 966	0. 980	5. 8	7. 398	5. 706
UNI T 19	SOLVED	-	' 116-BDV-0055-C	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 19, 'DP2', '116-BDV-0055 cold' (cont)  
Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	128.8	256.578	6.587
7.3E-03	38.550	128.5	251.737	6.592
1.4E-02	37.174	128.2	242.315	6.602
2.1E-02	35.843	127.9	233.318	6.611
2.9E-02	34.556	127.7	224.642	6.620
3.6E-02	33.313	127.4	216.281	6.629
4.3E-02	32.113	127.1	208.223	6.638
5.0E-02	30.953	126.9	200.457	6.646
5.7E-02	29.833	126.6	192.974	6.654
6.4E-02	28.751	126.4	185.763	6.662
7.1E-02	27.706	126.2	178.815	6.670
7.8E-02	26.697	126.0	172.120	6.677
8.5E-02	25.724	125.8	165.671	6.684
9.2E-02	24.784	125.6	159.457	6.691
9.9E-02	23.876	125.4	153.472	6.698
0.106	23.001	125.2	147.706	6.704
0.113	22.156	125.0	142.153	6.711
0.120	21.341	124.8	136.804	6.717
0.127	20.555	124.7	131.653	6.723
0.134	19.796	124.5	126.692	6.728
0.141	19.065	124.4	121.914	6.734
0.148	18.359	124.2	117.313	6.739
0.155	17.679	124.1	112.883	6.744
0.162	17.023	124.0	108.618	6.749
0.168	16.390	123.8	104.511	6.754
0.175	15.780	123.7	100.557	6.758
0.182	15.193	123.6	96.750	6.763
0.189	14.626	123.5	93.086	6.767
0.196	14.080	123.4	89.558	6.771
0.203	13.554	123.3	86.162	6.775
0.210	13.047	123.2	82.893	6.779
0.217	12.558	123.1	79.746	6.783
0.224	12.087	123.0	76.718	6.786
0.231	11.634	122.9	73.803	6.790
0.238	11.197	122.8	70.998	6.793
0.245	10.776	122.7	68.298	6.796
0.251	10.370	122.7	65.700	6.799
0.258	9.980	122.6	63.199	6.802
0.265	9.604	122.5	60.793	6.805
0.272	9.242	122.4	58.478	6.808
0.279	8.893	122.4	56.249	6.811
0.286	8.557	122.3	54.106	6.813
0.293	8.234	122.2	52.043	6.816
0.300	7.922	122.2	50.058	6.818
0.306	7.622	122.1	48.148	6.820
0.313	7.334	122.1	46.310	6.822
0.320	7.056	122.0	44.542	6.825
0.327	6.788	122.0	42.842	6.827
0.334	6.531	121.9	41.205	6.829
0.341	6.283	121.9	39.631	6.830
0.348	6.045	121.8	38.116	6.832
0.354	5.815	121.8	36.659	6.834

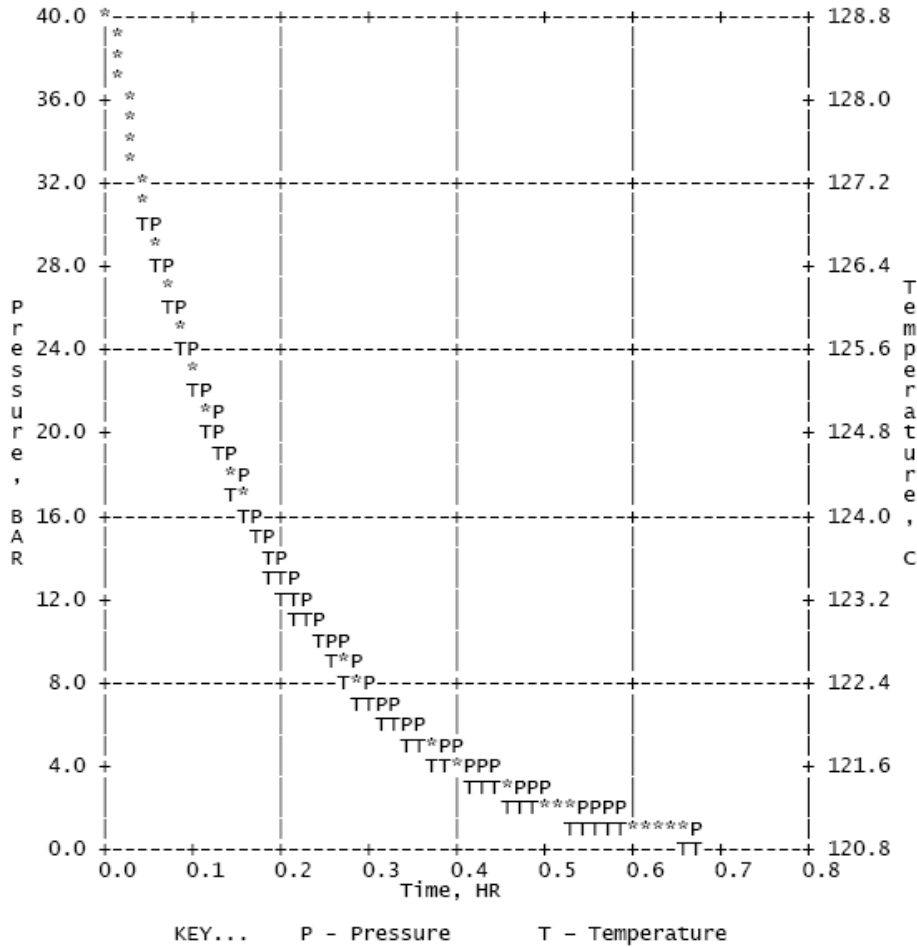
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



0. 361	5. 594	121. 7	35. 258	6. 836
0. 368	5. 381	121. 7	33. 909	6. 837
0. 375	5. 176	121. 7	32. 612	6. 839
0. 382	4. 980	121. 6	31. 365	6. 840
0. 389	4. 790	121. 6	30. 165	6. 842
0. 396	4. 608	121. 6	29. 010	6. 843
0. 402	4. 432	121. 5	27. 900	6. 845
0. 409	4. 263	121. 5	26. 831	6. 846
0. 416	4. 101	121. 5	25. 804	6. 847
0. 423	3. 944	121. 4	24. 816	6. 848
0. 430	3. 794	121. 4	23. 865	6. 849
0. 437	3. 649	121. 4	22. 951	6. 851
0. 443	3. 510	121. 4	22. 071	6. 852
0. 450	3. 376	121. 3	21. 225	6. 853
0. 457	3. 247	121. 3	20. 412	6. 854
0. 464	3. 123	121. 3	19. 629	6. 855
0. 471	3. 003	121. 3	18. 877	6. 855
0. 478	2. 888	121. 2	18. 153	6. 856
0. 484	2. 778	121. 2	17. 457	6. 857
0. 491	2. 672	121. 2	16. 787	6. 858
0. 498	2. 570	121. 2	16. 143	6. 859
0. 505	2. 471	121. 2	15. 524	6. 860
0. 512	2. 377	121. 1	14. 929	6. 860
0. 519	2. 286	121. 1	14. 356	6. 861
0. 525	2. 198	121. 1	13. 805	6. 862
0. 532	2. 114	121. 1	13. 275	6. 862
0. 539	2. 033	121. 1	12. 766	6. 863
0. 546	1. 955	121. 1	12. 276	6. 863
0. 553	1. 880	121. 1	11. 805	6. 864
0. 559	1. 808	121. 0	11. 351	6. 865
0. 566	1. 739	121. 0	10. 916	6. 865
0. 573	1. 672	121. 0	10. 497	6. 866
0. 580	1. 608	121. 0	10. 094	6. 866
0. 587	1. 547	121. 0	9. 706	6. 867
0. 594	1. 487	121. 0	9. 333	6. 867
0. 600	1. 430	121. 0	8. 975	6. 867
0. 607	1. 375	121. 0	8. 630	6. 868
0. 614	1. 323	121. 0	8. 299	6. 868
0. 621	1. 272	120. 9	7. 980	6. 869
0. 628	1. 223	120. 9	7. 673	6. 869
0. 634	1. 176	120. 9	7. 379	6. 869
0. 641	1. 131	120. 9	7. 095	6. 870
0. 648	1. 088	120. 9	6. 823	6. 870
0. 655	1. 046	120. 9	6. 561	6. 870
0. 658	1. 026	120. 9	6. 370	6. 871
0. 665	0. 986	120. 9	6. 185	6. 871
UNI T    20	SOLVED	- ' 116-BDV-0055-S		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 20, '116-BDV-0055 SPURIOUS'

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

#### 5.14.4 BDV 0089(Winter Case)



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WET TED AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
116-A-101	116-D-103	S11	MIXED	407.9	983.22	4053.3	22.205	0.0023	0.9977	0.33	3.28	5.78	0.35 3
116-D-103	SDV-0065	189	LIQUID	407.9	983.26	0	0	1	0	18.71	0.00	1.55	1.55
116-D-103	116-K-101A	188	VAPOR	0	0	4053.3	22.078	0	1	0.00	6.18	7.27	0.00
116-D-103	116-K-101B	188	VAPOR	0	0	4053.3	22.078	0	1	0.00	6.18	7.27	0.00
116-K-101A	116-E-101	190	VAPOR	0	0	4053.3	27.24	0	1	0.00	4.47	6.43	0.00
116-K-101B	116-E-101	190	VAPOR	0	0	4053.3	27.24	0	1	0.00	4.47	6.43	0.00
116-F-101	116-D-103	185	VAPOR	0	0	4027	28.835	0	1	0.00	6.63	9.00	0.00
116-D-102A/B	116-A-101	187	VAPOR	0	0	4461.2	11.778	0	1	0.00	1.31	4.58	0.00
	116-K-101A/B	190			0		27.24			0.00	54.48		
	116-A-101	S11			983.22		22.205			0.00	5.77		
	116-D-103	188/189			983.26		22.078			603.66	20.26	8.67	3.53
	TOTAL									622.70	113.05	56.95	5.44

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
116-A-101	116-D-103	4	4.5	D03	114.3	40	6.02	102.26	4.026	8	10	0.000	0.147	0.148
116-D-103	SDV-0065	2	2.37	D03	60.3	80	5.54	49.22	1.934	0	10	0.0190	0.000	0.019
116-D-103	116-K-101A	6	6.63	D03	168.4	40	7.11	154.18	6.070	0	15	0.000	0.280	0.280
116-D-103	116-K-101B	6	6.63	D03	168.4	40	7.11	154.18	6.070	0	15	0.000	0.280	0.280
116-K-101A	116-E-101	4	4.5	D03	114.3	40	6.02	102.26	4.026	0	20	0.000	0.164	0.164
116-K-101B	116-E-101	4	4.5	D03	114.3	40	6.02	102.26	4.026	0	20	0.000	0.164	0.164
116-F-101	116-D-103	4	4.5	D01	114.3	40	6.02	102.26	4.026	8	20	0.000	0.230	0.230
116-D-102A/B	116-A-101	4	4.5	F03	114.3	80	8.56	97.18	3.826	0	15	0.000	0.111	0.111
	116-K-101A/B												2.00	2.00
	116-A-101												0.26	0.26
	116-D-103											0.61	0.92	1.53
	TOTAL											0.63		5.19

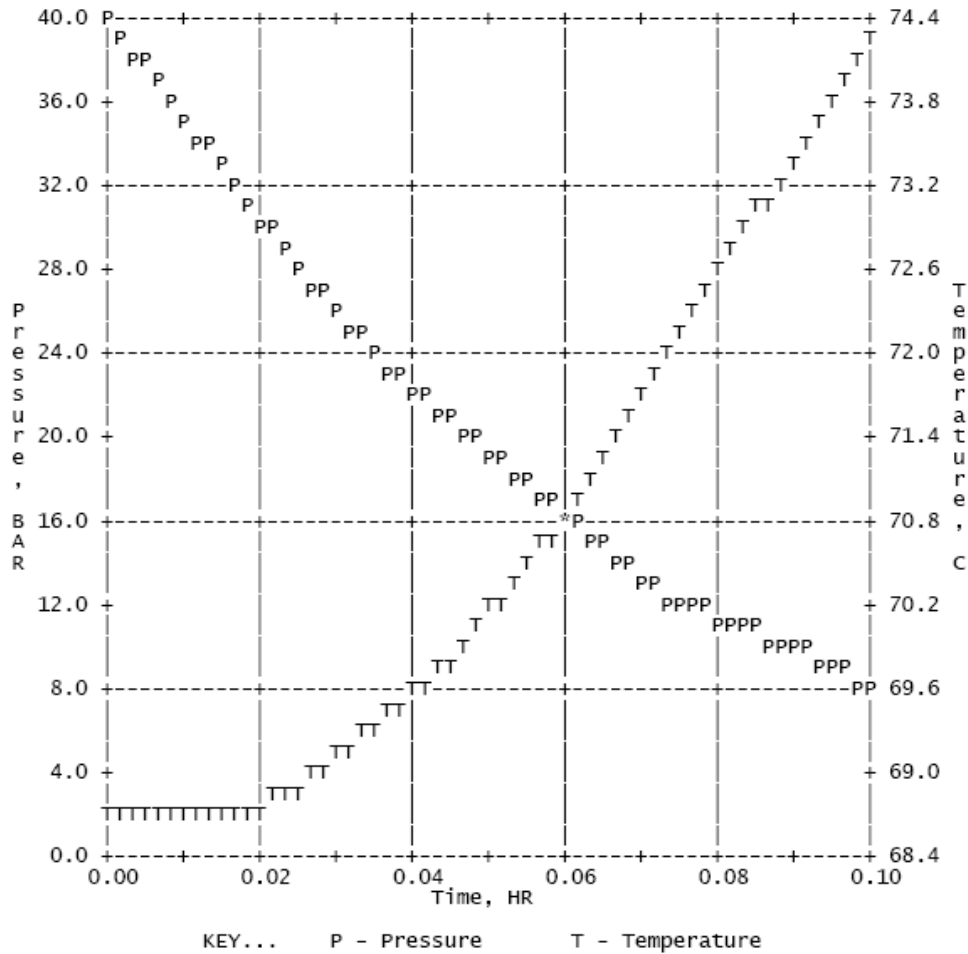
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	68.8	4313.972	80.195
8.0E-03	35.873	68.7	4060.431	80.808
1.6E-02	31.924	68.7	3571.943	82.081
2.5E-02	27.929	68.9	3107.022	83.306
3.5E-02	23.926	69.3	2653.113	84.523
4.6E-02	19.945	69.9	2213.032	85.728
5.9E-02	16.027	70.8	1789.540	86.928
7.5E-02	12.245	72.2	1386.972	88.150
9.4E-02	8.659	73.8	1010.959	89.419
0.100	7.844	74.3	789.754	90.369
UNIT 1	SOLVED	-	' 116-BDV-0089-F	

	<p style="text-align: center;"><b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b></p> <p><b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b></p> <p><b>Doc. Number : DB-1516-999-P312-212</b></p>	 <p style="text-align: center;"><b>Pars Oil and Gas Company</b></p> <p><b>Rev. : 3    Class: 2</b></p>
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UNIT 1, 'DP1', '116-BDV-0089 Fire' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

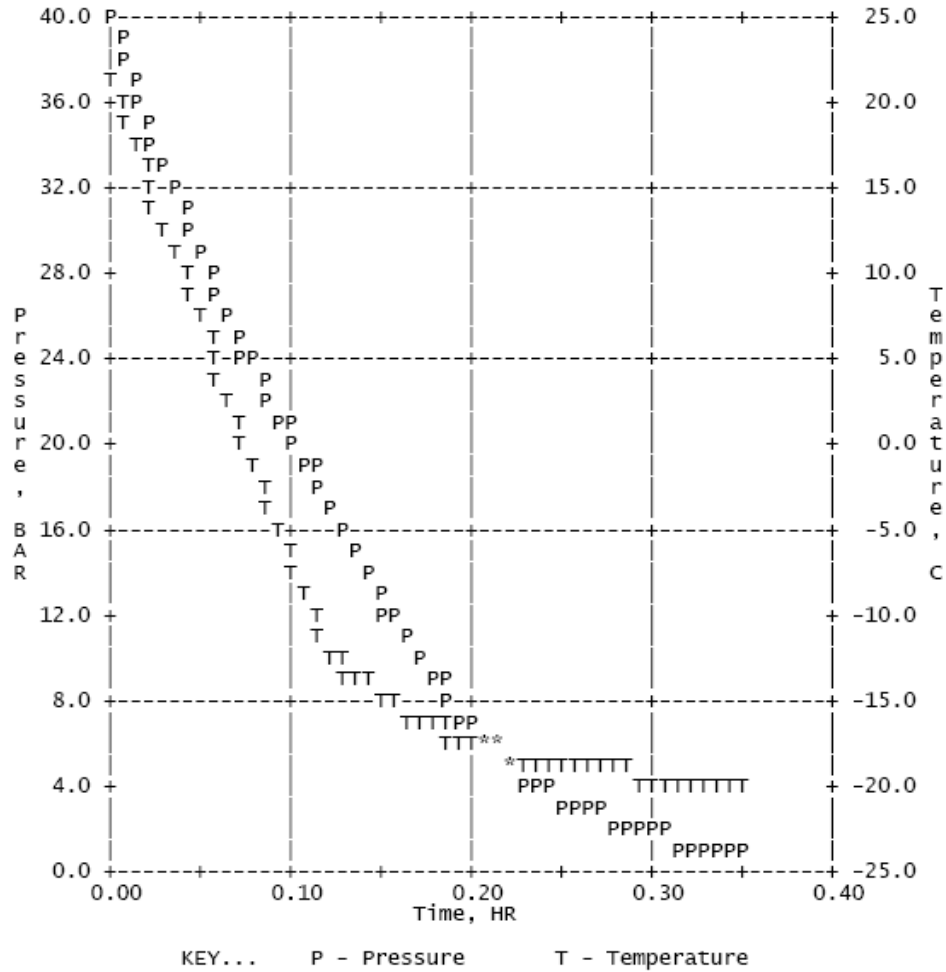
\*\*\* DEPRESSURING SUMMARY (Winter Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	21. 4	5712. 913	60. 558
5. 0E-03	38. 796	19. 9	5594. 527	60. 909
9. 9E-03	37. 626	18. 5	5365. 690	61. 593
1. 5E-02	36. 472	17. 1	5150. 427	62. 216
2. 0E-02	35. 335	15. 7	4945. 594	62. 789
2. 5E-02	34. 219	14. 2	4750. 431	63. 318
3. 0E-02	33. 118	12. 8	4563. 641	63. 809
3. 4E-02	32. 048	11. 3	4385. 229	64. 263
3. 9E-02	31. 001	9. 9	4215. 232	64. 683
4. 4E-02	29. 979	8. 5	4052. 523	65. 073
4. 9E-02	28. 987	7. 0	3897. 072	65. 434
5. 4E-02	28. 023	5. 6	3748. 611	65. 768
5. 9E-02	27. 087	4. 2	3606. 629	66. 079
6. 4E-02	26. 180	2. 8	3470. 955	66. 366
6. 9E-02	25. 303	1. 4	3341. 280	66. 633
7. 4E-02	24. 457	5. 3E-03	3217. 526	66. 880
7. 9E-02	23. 681	-1. 3	3102. 435	67. 100
8. 4E-02	22. 887	-2. 6	2992. 182	67. 304
8. 9E-02	22. 121	-4. 0	2883. 497	67. 501
9. 3E-02	21. 383	-5. 3	2779. 587	67. 683
9. 8E-02	20. 670	-6. 6	2680. 212	67. 852
0. 103	19. 981	-7. 8	2584. 956	68. 008
0. 108	19. 316	-9. 1	2493. 569	68. 153
0. 113	18. 677	-10. 3	2406. 069	68. 287
0. 118	18. 061	-11. 5	2322. 358	68. 411
0. 122	17. 254	-12. 2	2222. 790	68. 707
0. 127	16. 417	-12. 7	2103. 664	69. 218
0. 132	15. 585	-13. 2	1984. 179	69. 749
0. 137	14. 760	-13. 6	1867. 681	70. 262
0. 142	13. 941	-14. 1	1754. 096	70. 758
0. 147	13. 131	-14. 5	1643. 438	71. 238
0. 153	12. 331	-14. 9	1535. 710	71. 701
0. 158	11. 542	-15. 3	1430. 912	72. 148
0. 164	10. 764	-15. 7	1329. 042	72. 580
0. 170	9. 999	-16. 0	1230. 092	72. 997
0. 176	9. 248	-16. 4	1134. 053	73. 398
0. 182	8. 512	-16. 7	1040. 916	73. 785
0. 189	7. 790	-17. 0	950. 672	74. 157
0. 196	7. 085	-17. 3	863. 313	74. 516
0. 204	6. 397	-17. 6	778. 837	74. 860
0. 212	5. 726	-17. 9	697. 246	75. 191
0. 220	5. 074	-18. 1	618. 553	75. 508
0. 230	4. 441	-18. 4	542. 787	75. 811
0. 240	3. 829	-18. 6	469. 995	76. 100
0. 252	3. 240	-18. 9	400. 258	76. 376
0. 265	2. 674	-19. 1	333. 703	76. 637
0. 280	2. 135	-19. 3	270. 528	76. 883
0. 298	1. 628	-19. 5	211. 047	77. 111
0. 321	1. 157	-19. 7	155. 767	77. 320
0. 351	0. 734	-19. 8	105. 527	77. 503
UNI T	2	SOLVED	- ' 116-BDV-0089-C '	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 2, 'DP2', '116-BDV-0089 Cold' (cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

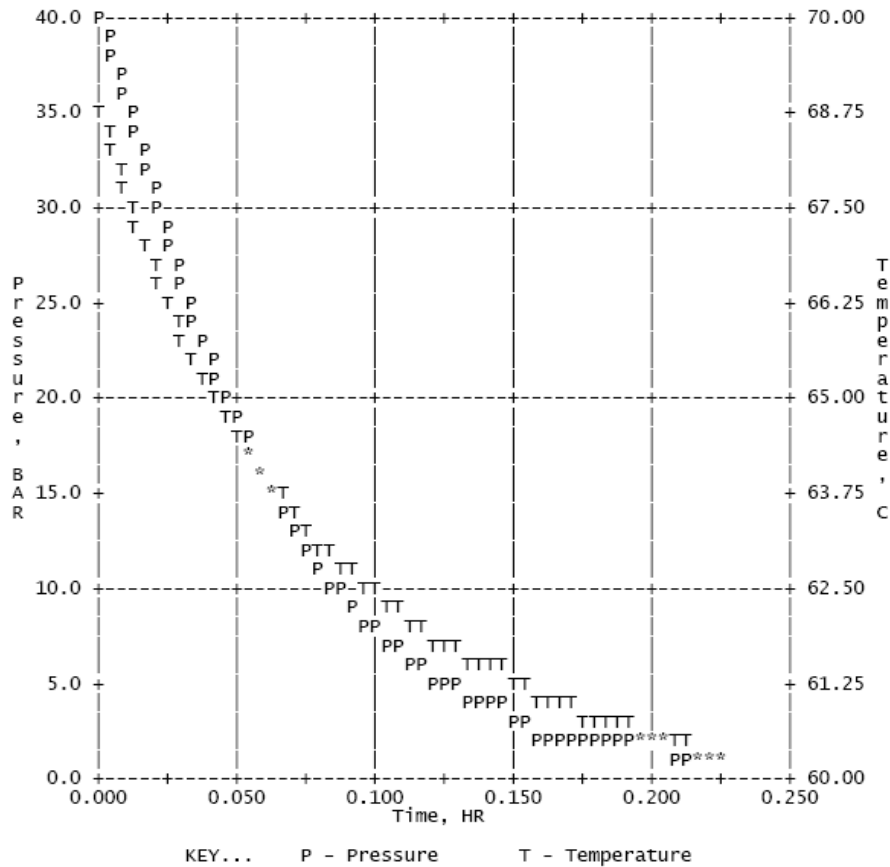
\*\*\* DEPRESSURING SUMMARY (Winter Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	68.8	4313.972	80.195
8.0E-03	35.729	67.8	4056.499	80.733
1.6E-02	31.674	67.0	3561.393	81.846
2.5E-02	27.596	66.2	3091.657	82.904
3.5E-02	23.534	65.4	2634.173	83.940
4.6E-02	19.517	64.7	2191.658	84.946
6.0E-02	15.584	63.9	1766.695	85.919
7.5E-02	11.799	63.4	1363.254	86.865
9.5E-02	8.229	62.6	986.726	87.779
0.122	5.017	61.8	646.031	88.667
0.141	3.519	61.4	412.389	89.506
0.162	2.405	61.1	284.189	90.147
0.182	1.675	60.8	194.121	90.892
0.223	0.849	60.2	118.471	92.132
UNIT	3	SOLVED	- '116-BDV-0089-S	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, 'DP3', '116-BDV-0089 spuriuos' (cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.5 BDV 0028(Summer Case)



FROM	TO	STREAM TAG	PHASE	LIQUID RATE kg/hr	LIQUID DENSITY kg/m3	VAPOR RATE kg/hr	VAPOR DENSITY kg/m3	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT kg	VAPOR WEIGHT kg	TOTAL AREA m2	WETTED AREA m2
SDV-0004	116-E-101	S1	VAPOR	0	0	57646	29.435	0	1	0.00	109.01	48.24	0.00
116-E-101	116-D-101	S2	MIXED	188.65	992.11	57457	32.2	0.0001	0.9999	0.09	27.90	11.43	0.57
116-D-101	SDV-0022	184	WATER	188.8	992.15	0	0	1	0	18.80	0.00		1.54
116-D-101	116-D-102A/B	183	VAPOR	0	0	57457	32.044	0	1	0.00	34.71	14.29	0.00
	116-D-101	183/184			992.15		32.044			1382.88	65.22	13.74	5.70
	116-E-101	S2			992.11		32.2			347.24	45.08	14.17	
TOTAL										1749.01	281.92	101.87	7.81

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
SDV-0004	116-E-101	12	12.75	D01	323.9	30	8.38	307.09	12.090	10	40	0	3.70	3.70
116-E-101	116-D-101	12	12.75	D03	323.9	40	10.31	303.23	11.938	2	10	0.0001	0.867	0.867
116-D-101	SDV-0022	2	2.37	D03	60.2	80	5.54	49.12	1.934	0	10	0.019	0.000	0.019
116-D-101	116-D-102A/B	12	12.75	D03	323.9	40	10.31	303.23	11.938	5	10	0.000	1.083	1.083
116-D-101												1.39	2.04	3.43
116-E-101												0.35	1.4	1.75
TOTAL												1.76		10.85

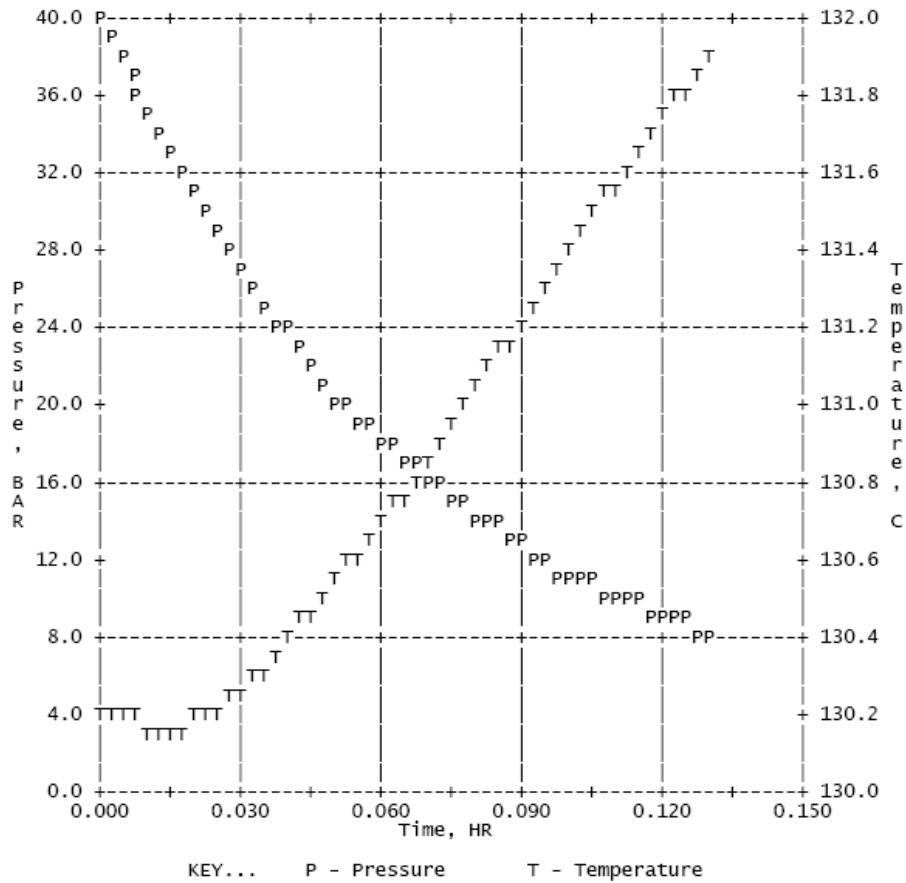
### \*\*\* DEPRESSURING SUMMARY (Summer Case)



TIME HR	PRES BAR	TEMP C	VENT RATE KG/HR	VENT RATE M3/HR
0.000	40.000	130.2	5508.482	142.326
1.4E-02	33.012	130.2	4996.882	143.193
3.0E-02	26.859	130.3	4043.281	145.114
4.8E-02	20.981	130.5	3186.890	147.112
7.1E-02	15.571	130.8	2397.131	149.434
0.100	10.839	131.4	1698.160	152.411
0.130	7.791	131.9	1167.973	156.315

UNIT 25 SOLVED - ' 116-BDV-0028-F

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 25, 'DP1', '116-BDV-0028 fire' (cont)  
Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

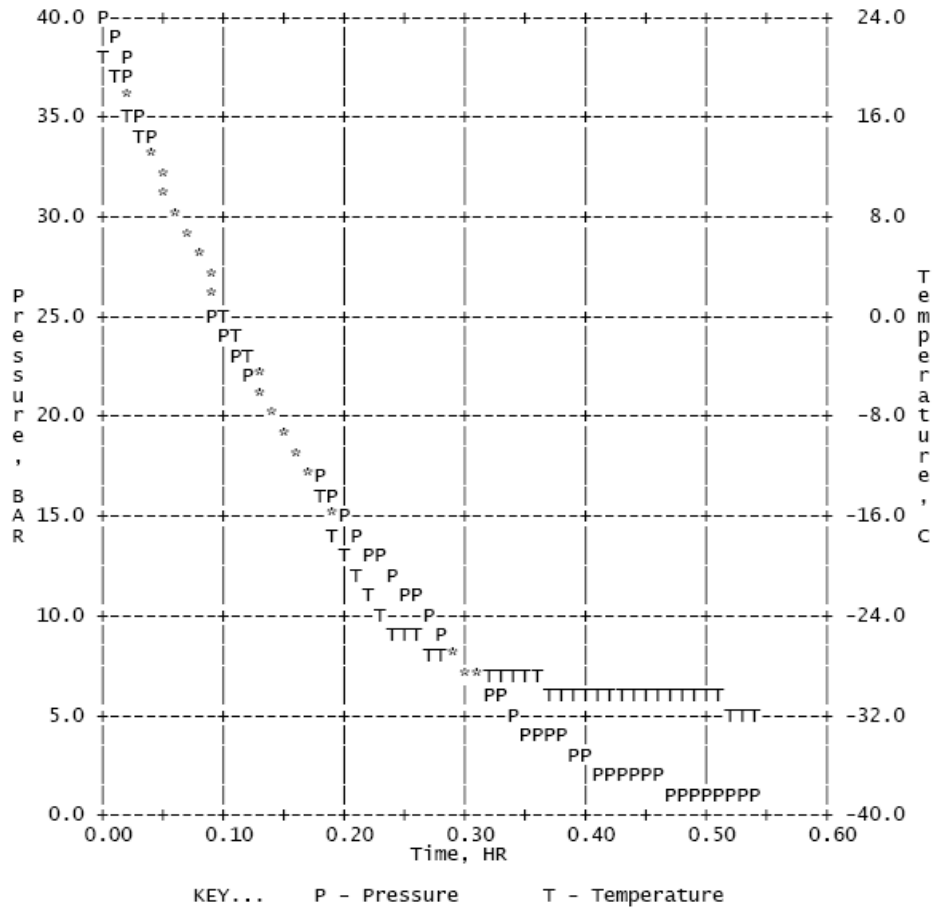
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	21. 4	8600. 104	91. 162
7. 6E-03	38. 649	19. 8	8400. 597	91. 751
1. 5E-02	37. 336	18. 2	8015. 673	92. 900
2. 3E-02	36. 034	16. 5	7654. 275	93. 938
3. 0E-02	34. 747	14. 9	7310. 105	94. 890
3. 8E-02	33. 481	13. 2	6981. 914	95. 767
4. 6E-02	32. 236	11. 6	6668. 786	96. 573
5. 4E-02	31. 023	9. 9	6370. 517	97. 315
6. 1E-02	29. 836	8. 2	6086. 165	97. 997
6. 9E-02	28. 681	6. 5	5814. 638	98. 626
7. 7E-02	27. 558	4. 8	5555. 661	99. 204
8. 5E-02	26. 465	3. 2	5308. 195	99. 737
9. 3E-02	25. 407	1. 5	5071. 884	100. 228
0. 101	24. 437	-9. 6E-02	4852. 495	100. 665
0. 110	23. 439	-1. 8	4642. 377	101. 065
0. 118	22. 477	-3. 4	4435. 503	101. 448
0. 126	21. 547	-5. 1	4238. 147	101. 798
0. 134	20. 651	-6. 7	4049. 613	102. 119
0. 143	19. 789	-8. 4	3869. 827	102. 411
0. 151	18. 959	-10. 0	3698. 260	102. 677
0. 159	18. 157	-11. 6	3534. 162	102. 919
0. 168	17. 389	-13. 1	3377. 541	103. 139
0. 177	16. 648	-14. 7	3227. 949	103. 336
0. 185	15. 936	-16. 3	3084. 748	103. 515
0. 194	15. 251	-17. 8	2947. 982	103. 675
0. 203	14. 593	-19. 3	2817. 243	103. 817
0. 211	13. 962	-20. 8	2692. 231	103. 944
0. 220	13. 354	-22. 3	2572. 563	104. 057
0. 229	12. 768	-23. 7	2457. 728	104. 157
0. 238	12. 201	-25. 1	2347. 245	104. 247
0. 247	11. 420	-25. 9	2212. 889	104. 606
0. 256	10. 579	-26. 4	2046. 592	105. 339
0. 266	9. 749	-26. 8	1876. 845	106. 142
0. 276	8. 928	-27. 3	1711. 929	106. 914
0. 287	8. 117	-27. 7	1551. 613	107. 657
0. 298	7. 320	-28. 1	1396. 001	108. 372
0. 310	6. 537	-28. 5	1245. 192	109. 059
0. 323	5. 770	-28. 9	1099. 304	109. 717
0. 338	5. 022	-29. 2	958. 488	110. 348
0. 353	4. 295	-29. 6	822. 943	110. 949
0. 371	3. 591	-29. 9	692. 942	111. 521
0. 392	2. 914	-30. 2	568. 877	112. 062
0. 416	2. 270	-30. 5	451. 323	112. 569
0. 445	1. 665	-30. 8	341. 166	113. 038
0. 483	1. 111	-31. 0	239. 821	113. 462
0. 535	0. 627	-31. 3	149. 663	113. 829

UNIT 26 SOLVED - ' 116-BDV-0028-C

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 26, 'DP2', '116-BDV-0028 cold' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

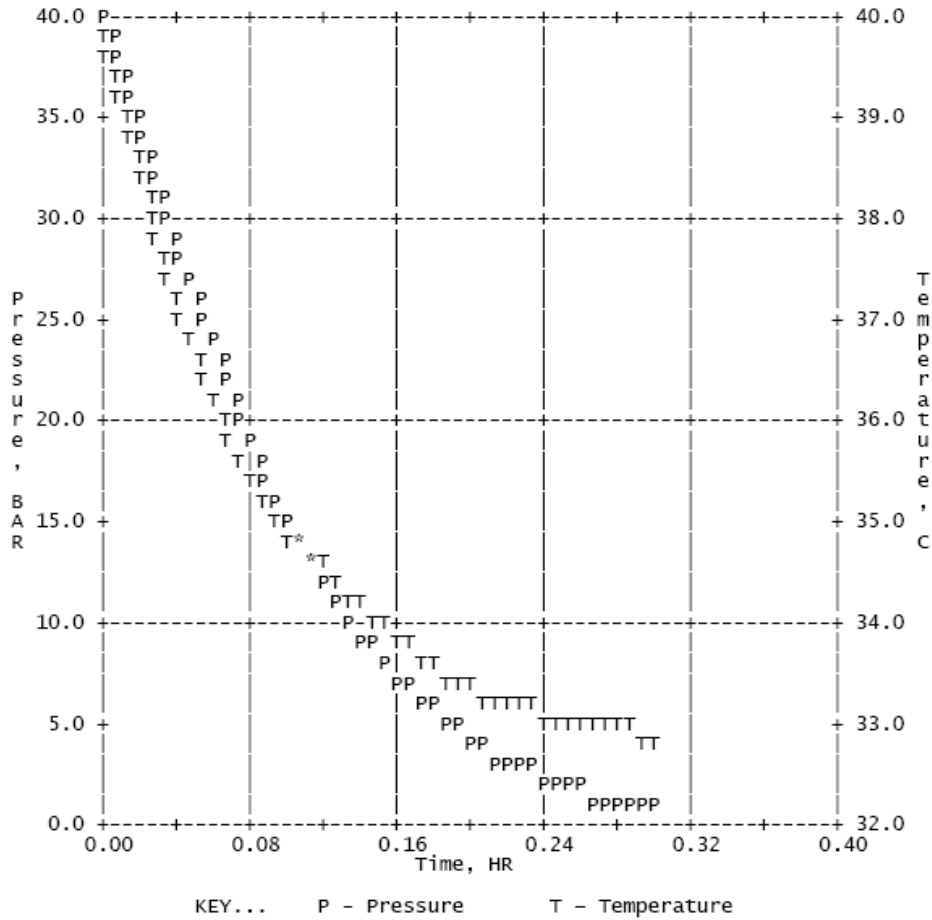
\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	39.9	7346.567	106.717
1.3E-02	36.161	38.9	6907.881	108.047
2.6E-02	32.288	37.9	6053.357	110.815
4.1E-02	28.187	37.1	5223.895	113.451
5.7E-02	23.909	36.3	4400.350	116.022
7.6E-02	19.511	35.6	3590.897	118.496
9.8E-02	15.076	34.9	2804.752	120.848
0.125	10.735	34.4	2055.453	123.061
0.162	6.653	33.8	1362.401	125.075
0.188	4.647	33.5	874.296	126.661
0.218	3.115	33.2	596.371	127.543
0.246	2.107	33.0	399.006	128.264
0.274	1.425	32.9	268.655	128.862
0.303	0.968	32.8	181.203	129.447
UNIT 27	SOLVED	-	' 116-BDV-0028-S	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 27, 'DP3', '116-BDV-0028 Spurious' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.6 BDV 0036(Summer Case)



FROM	TO	STR EAM TAG	PHASE	LIQUID RATE	LIQUID DENSIT Y	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTE D AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
KV0031A/ 0032A	116-D-102A	183	VAPOR	0	0	57457	32.044	0	1	0.00	84.02	36.30	0.00
KV0039A	116-D-102A	186	VAPOR	0	0	4027	12.575	0	1	0.00	1.87	6.11	0.00
KV0038B	116-F- 101A/B	S3	VAPOR	0	0	57349	31.072	0	1	0.00	29.92	12.54	0.00
116-D-102A	116-F- 101A/B	S3	VAPOR	0	0	57349	31.072	0	1	0.00	138.08	57.89	0.00
116-F-101A/B	ESDV0045	191	VAPOR	0	0	53322	30.175	0	1	0.00	156.45	12.54	0.00
116-F-101A/B	ESDV0049/ KV0048	185	VAPOR	0	0	4027	28.835	0	1	0.00	11.84	57.89	0.00
116-F-101A/B	KV0063	185	VAPOR	0	0	4027	28.835	0	1	0.00	14.21	67.53	0.00
	116-D-102A	S3	VAPOR		0		31.072			0.00	1037.08	63.59	0.00
	116-F-101A/B	191	VAPOR		0		30.175			0.00	600.48		
	TOTAL										2073.94	314.38	0.00

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
KV0031A/ 0032A	116-D- 102A	12	13	F03	323.9	80	17.48	288.9	11.374	0	40	0.000	2.622	2.622
KV0039A	116-D- 102A	4	4.5	F01	114.3	80	8.56	97.18	3.826	0	20	0.000	0.148	0.148
KV0038B	116-F- 101A/B	12	13	D01	323.9	30	8.38	307.1	12.090	5	8	0.000	0.963	0.963
116-D- 102A	116-F- 101A/B	12	13	D01	323.9	30	8.38	307.1	12.090	20	40	0.000	4.444	4.444
116-F- 101A/B	ESDV0045	12	13	D01	323.9	30	8.38	307.1	12.090	10	60	0.000	5.185	5.185
116-F- 101A/B	ESDV0049/ KV0048	4	4.5	D01	114.3	40	6.02	102.3	4.026	20	30	0.000	0.411	0.411
116-F- 101A/B	KV0063	4	4.5	D01	114.3	40	6.02	102.3	4.026	20	40	0.000	0.493	0.493
	116-D-102A											0.000	33.38	33.38
	116-F-101A/B											0.000	19.9	19.90
	TOTAL											0.00		67.54

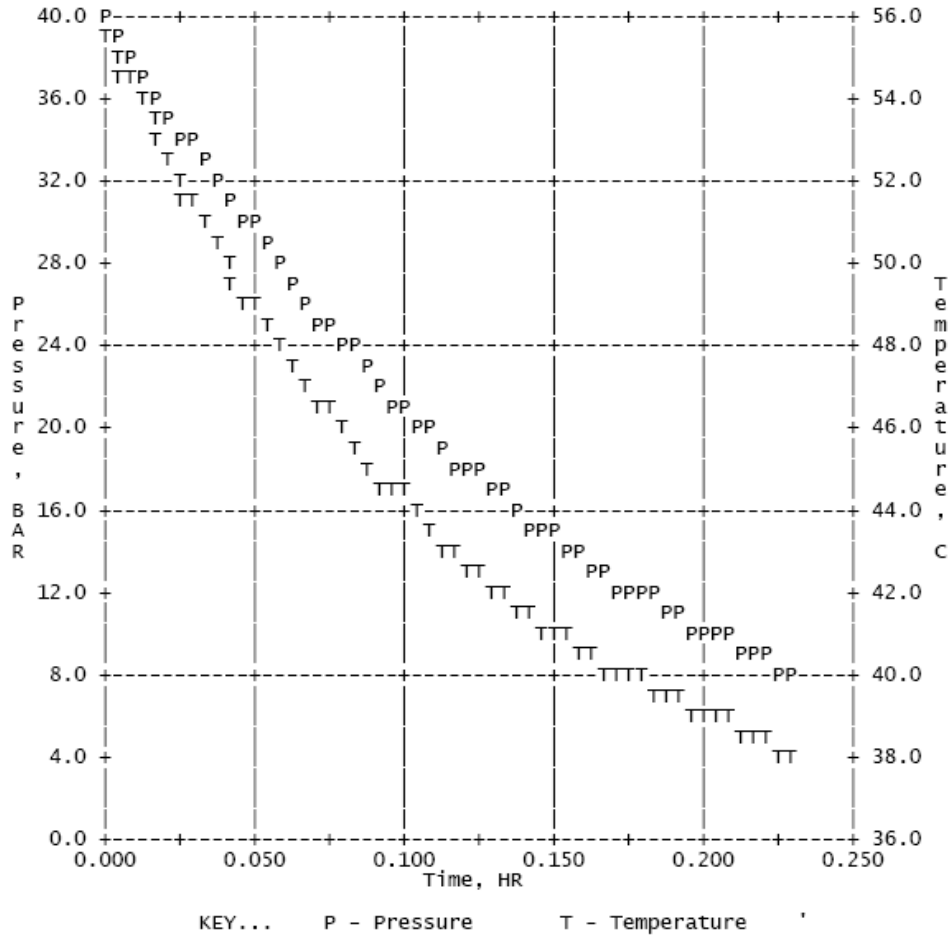
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	55. 5	29705. 959	501. 044
5. 4E-03	38. 718	54. 7	29175. 983	501. 970
1. 1E-02	37. 494	53. 9	28143. 033	503. 826
1. 6E-02	36. 303	53. 1	27153. 758	505. 634
2. 1E-02	35. 144	52. 4	26197. 236	507. 410
2. 6E-02	34. 018	51. 7	25272. 565	509. 152
3. 2E-02	32. 922	51. 0	24378. 715	510. 859
3. 7E-02	31. 856	50. 3	23514. 704	512. 530
4. 2E-02	30. 821	49. 7	22679. 588	514. 164
4. 7E-02	29. 814	49. 1	21872. 459	515. 762
5. 2E-02	28. 835	48. 5	21092. 446	517. 321
5. 7E-02	27. 884	48. 0	20338. 702	518. 843
6. 2E-02	26. 960	47. 4	19610. 414	520. 326
6. 8E-02	26. 063	46. 9	18906. 793	521. 771
7. 3E-02	25. 192	46. 4	18226. 993	523. 180
7. 8E-02	24. 346	46. 0	17570. 203	524. 553
8. 3E-02	23. 525	45. 5	16935. 744	525. 888
8. 8E-02	22. 728	45. 1	16322. 950	527. 185
9. 3E-02	21. 954	44. 7	15731. 147	528. 443
9. 8E-02	21. 204	44. 3	15159. 682	529. 664
0. 103	20. 476	43. 9	14607. 919	530. 848
0. 108	19. 771	43. 5	14075. 264	531. 996
0. 113	19. 087	43. 2	13561. 133	533. 110
0. 118	18. 425	42. 9	13064. 935	534. 190
0. 123	17. 783	42. 5	12586. 095	535. 237
0. 128	17. 162	42. 2	12124. 057	536. 252
0. 133	16. 560	41. 9	11678. 276	537. 235
0. 138	15. 978	41. 7	11248. 226	538. 186
0. 142	15. 414	41. 4	10833. 394	539. 108
0. 147	14. 868	41. 1	10433. 280	540. 000
0. 152	14. 340	40. 9	10047. 401	540. 862
0. 157	13. 830	40. 7	9675. 286	541. 697
0. 162	13. 336	40. 4	9316. 477	542. 504
0. 167	12. 859	40. 2	8970. 530	543. 284
0. 172	12. 397	40. 0	8637. 014	544. 038
0. 177	11. 951	39. 8	8315. 511	544. 767
0. 182	11. 520	39. 6	8005. 613	545. 471
0. 186	11. 104	39. 4	7706. 928	546. 152
0. 191	10. 701	39. 3	7419. 071	546. 809
0. 196	10. 313	39. 1	7141. 673	547. 443
0. 201	9. 937	38. 9	6874. 374	548. 055
0. 206	9. 575	38. 8	6616. 825	548. 646
0. 211	9. 225	38. 6	6368. 689	549. 217
0. 215	8. 888	38. 5	6129. 637	549. 767
0. 220	8. 562	38. 4	5899. 353	550. 299
0. 225	8. 247	38. 2	5677. 529	550. 811
0. 227	8. 094	38. 2	5515. 808	551. 189
0. 230	7. 933	38. 1	5407. 308	551. 440
UNI T	1	SOLVED	- ' 116-BDV-0036-F	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 1, 'DP1', '116-BDV-0036 Fire' (cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY (Summer Case)

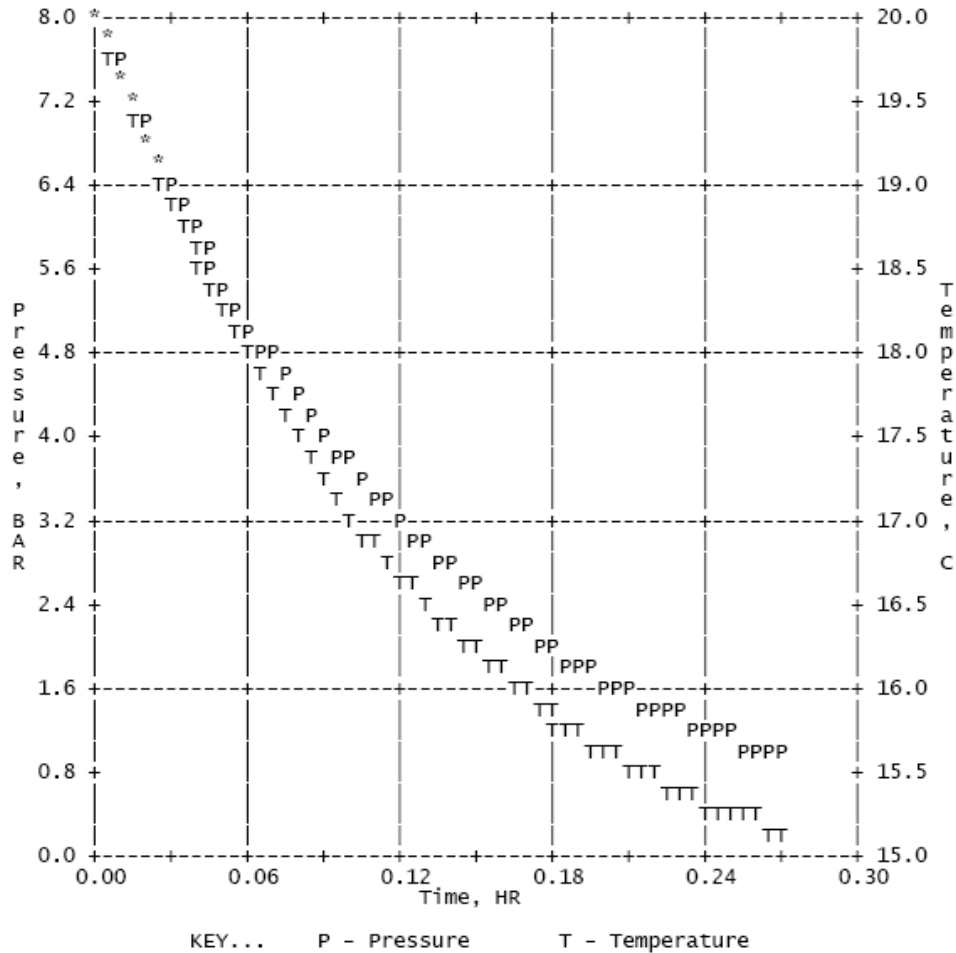
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.000	20.0	5599.710	531.599
5.1E-03	7.701	19.8	5492.395	531.844
1.0E-02	7.417	19.6	5283.761	532.330
1.5E-02	7.144	19.4	5084.815	532.792
2.0E-02	6.880	19.2	4893.161	533.236
2.5E-02	6.626	19.0	4708.587	533.664
3.0E-02	6.380	18.9	4530.847	534.076
3.5E-02	6.144	18.7	4359.698	534.473
4.0E-02	5.916	18.5	4194.905	534.856
4.5E-02	5.696	18.4	4036.239	535.226
5.0E-02	5.484	18.2	3883.480	535.582
5.5E-02	5.279	18.1	3736.415	535.925
6.0E-02	5.082	18.0	3594.838	536.256
6.5E-02	4.892	17.8	3458.549	536.575
7.0E-02	4.709	17.7	3327.358	536.882
7.4E-02	4.533	17.6	3201.077	537.178
7.9E-02	4.363	17.5	3079.529	537.463
8.4E-02	4.199	17.3	2962.540	537.738
8.9E-02	4.042	17.2	2849.943	538.003
9.4E-02	3.890	17.1	2741.578	538.258
9.9E-02	3.744	17.0	2637.288	538.503
0.104	3.603	16.9	2536.924	538.740
0.109	3.467	16.8	2440.341	538.968
0.114	3.336	16.7	2347.399	539.187
0.119	3.210	16.7	2257.964	539.398
0.124	3.089	16.6	2171.906	539.602
0.129	2.972	16.5	2089.099	539.797
0.133	2.860	16.4	2009.423	539.986
0.138	2.752	16.3	1932.762	540.167
0.143	2.647	16.3	1859.003	540.342
0.148	2.547	16.2	1788.037	540.510
0.153	2.451	16.1	1719.761	540.672
0.158	2.358	16.1	1654.075	540.828
0.163	2.268	16.0	1590.880	540.978
0.168	2.182	16.0	1530.085	541.122
0.173	2.099	15.9	1471.598	541.261
0.178	2.019	15.8	1415.334	541.395
0.182	1.943	15.8	1361.209	541.524
0.187	1.869	15.7	1309.143	541.648
0.192	1.798	15.7	1259.057	541.767
0.197	1.729	15.7	1210.878	541.882
0.202	1.663	15.6	1164.534	541.992
0.207	1.600	15.6	1119.955	542.098
0.212	1.539	15.5	1077.075	542.200
0.217	1.480	15.5	1035.829	542.299
0.222	1.424	15.4	996.156	542.393
0.226	1.370	15.4	957.997	542.484
0.231	1.317	15.4	921.294	542.572
0.236	1.267	15.3	885.992	542.656
0.241	1.219	15.3	852.037	542.737
0.246	1.172	15.3	819.380	542.815
0.251	1.127	15.3	787.970	542.890
0.256	1.084	15.2	757.760	542.962



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

	0.261	1.043	15.2	728.704	543.032
	0.263	1.023	15.2	707.544	543.083
	0.268	0.983	15.2	687.062	543.131
UNIT 2	SOLVED	-	'116-BDV-0036-C'		

UNIT 2, 'DP2', '116-BDV-0036 cold' (cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	55. 5	29705. 951	501. 044
5. 4E-03	38. 669	54. 4	29166. 861	501. 816
1. 1E-02	37. 402	53. 4	28116. 986	503. 364
1. 6E-02	36. 173	52. 4	27112. 889	504. 877
2. 1E-02	34. 980	51. 5	26143. 153	506. 367
2. 6E-02	33. 823	50. 6	25206. 755	507. 833
3. 2E-02	32. 700	49. 7	24302. 541	509. 272
3. 7E-02	31. 611	48. 8	23429. 415	510. 684
4. 2E-02	30. 554	48. 0	22586. 328	512. 067
4. 7E-02	29. 529	47. 2	21772. 277	513. 421
5. 2E-02	28. 534	46. 4	20986. 296	514. 746
5. 7E-02	27. 570	45. 7	20227. 459	516. 041
6. 3E-02	26. 635	44. 9	19494. 870	517. 305
6. 8E-02	25. 728	44. 2	18787. 671	518. 539
7. 3E-02	24. 849	43. 5	18105. 029	519. 742
7. 8E-02	23. 997	42. 9	17446. 142	520. 914
8. 3E-02	23. 172	42. 3	16810. 233	522. 055
8. 8E-02	22. 372	41. 6	16196. 552	523. 166
9. 3E-02	21. 597	41. 0	15604. 370	524. 247
9. 8E-02	20. 847	40. 5	15032. 984	525. 298
0. 103	20. 120	39. 9	14481. 710	526. 319
0. 108	19. 417	39. 4	13949. 889	527. 311
0. 113	18. 736	38. 9	13436. 878	528. 275
0. 118	18. 077	38. 4	12942. 055	529. 210
0. 123	17. 439	37. 9	12464. 818	530. 117
0. 128	16. 822	37. 4	12004. 582	530. 997
0. 133	16. 226	37. 0	11560. 780	531. 850
0. 138	15. 649	36. 6	11132. 861	532. 677
0. 143	15. 091	36. 2	10720. 292	533. 478
0. 148	14. 551	35. 8	10322. 556	534. 255
0. 153	14. 030	35. 4	9939. 151	535. 007
0. 158	13. 526	35. 0	9569. 591	535. 735
0. 163	13. 039	34. 6	9213. 404	536. 439
0. 168	12. 569	34. 3	8870. 132	537. 121
0. 173	12. 114	34. 0	8539. 334	537. 782
0. 178	11. 676	33. 6	8220. 580	538. 420
0. 183	11. 252	33. 3	7913. 454	539. 038
0. 188	10. 843	33. 0	7617. 552	539. 635
0. 193	10. 448	32. 8	7332. 486	540. 213
0. 198	10. 066	32. 5	7057. 815	540. 772
0. 202	9. 698	32. 2	6792. 999	541. 310
0. 207	9. 342	32. 0	6537. 730	541. 828
0. 212	8. 998	31. 7	6291. 822	542. 325
0. 217	8. 667	31. 5	6054. 949	542. 803
0. 222	8. 347	31. 3	5826. 808	543. 263
0. 227	8. 039	31. 1	5607. 100	543. 707
0. 232	7. 741	30. 8	5395. 526	544. 136
0. 237	7. 455	30. 6	5191. 794	544. 550
0. 241	7. 178	30. 4	4995. 624	544. 949
0. 246	6. 911	30. 3	4806. 744	545. 333
0. 251	6. 654	30. 1	4624. 893	545. 705
0. 256	6. 406	29. 9	4449. 816	546. 063
0. 261	6. 167	29. 7	4281. 268	546. 408

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		

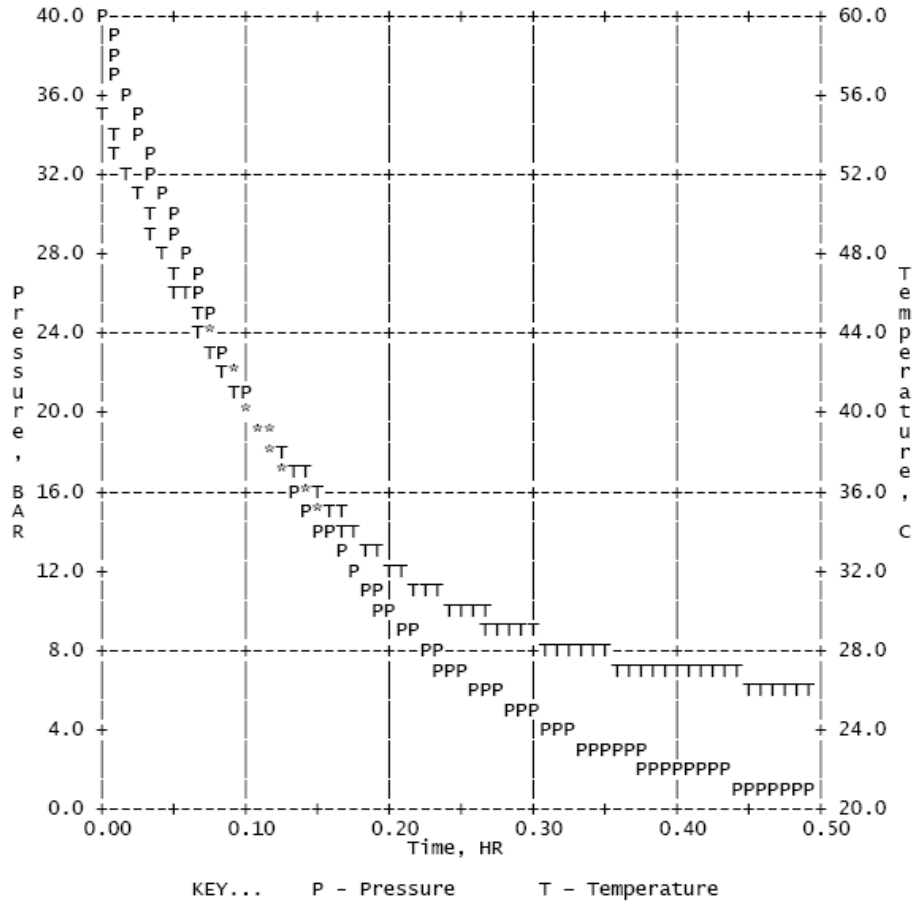
0. 266	5. 937	29. 6	4119. 014	546. 741
0. 271	5. 715	29. 4	3962. 824	547. 062
0. 275	5. 501	29. 3	3812. 478	547. 371
0. 280	5. 295	29. 1	3667. 764	547. 669
0. 285	5. 097	29. 0	3528. 474	547. 957
0. 290	4. 906	28. 9	3394. 411	548. 234
0. 295	4. 721	28. 7	3265. 384	548. 501
0. 300	4. 544	28. 6	3141. 207	548. 758
0. 304	4. 373	28. 5	3021. 702	549. 006
0. 309	4. 208	28. 4	2906. 696	549. 245
0. 314	4. 050	28. 3	2796. 025	549. 475
0. 319	3. 897	28. 2	2689. 527	549. 696
0. 324	3. 750	28. 1	2587. 048	549. 909
0. 329	3. 608	28. 0	2488. 439	550. 115
0. 333	3. 472	27. 9	2393. 557	550. 313
0. 338	3. 340	27. 8	2302. 263	550. 503
0. 343	3. 214	27. 7	2214. 423	550. 687
0. 348	3. 092	27. 6	2129. 910	550. 864
0. 353	2. 975	27. 5	2048. 598	551. 034
0. 357	2. 862	27. 5	1970. 368	551. 198
0. 362	2. 754	27. 4	1895. 106	551. 355
0. 367	2. 649	27. 3	1822. 699	551. 507
0. 372	2. 549	27. 3	1753. 042	551. 653
0. 377	2. 452	27. 2	1686. 030	551. 794
0. 381	2. 359	27. 1	1621. 565	551. 929
0. 386	2. 269	27. 1	1559. 551	552. 060
0. 391	2. 183	27. 0	1499. 896	552. 185
0. 396	2. 100	27. 0	1442. 510	552. 306
0. 401	2. 020	26. 9	1387. 309	552. 422
0. 405	1. 943	26. 9	1334. 211	552. 534
0. 410	1. 869	26. 8	1283. 135	552. 642
0. 415	1. 797	26. 8	1234. 006	552. 745
0. 420	1. 729	26. 7	1186. 750	552. 845
0. 425	1. 663	26. 7	1141. 296	552. 941
0. 429	1. 600	26. 6	1097. 576	553. 033
0. 434	1. 538	26. 6	1055. 524	553. 122
0. 439	1. 480	26. 5	1015. 077	553. 207
0. 444	1. 423	26. 5	976. 175	553. 289
0. 449	1. 369	26. 5	938. 759	553. 369
0. 453	1. 317	26. 4	902. 772	553. 445
0. 458	1. 266	26. 4	868. 161	553. 518
0. 463	1. 218	26. 4	834. 872	553. 588
0. 468	1. 171	26. 3	802. 856	553. 656
0. 472	1. 127	26. 3	772. 064	553. 721
0. 477	1. 083	26. 3	742. 450	553. 784
0. 482	1. 042	26. 3	713. 969	553. 844
0. 484	1. 022	26. 2	693. 227	553. 889
0. 489	0. 982	26. 2	673. 151	553. 931
UNI T	3	SOLVED	- ' 116-BDV-0036-S	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, 'DP3', '116-BDV-0036 spurious' (cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.7 BDV 0055(Summer Case)



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTED AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
SDV-0049	116-H-101	185	VAPOR	0	0	4027	28.835	0	1	0.00	9.00	12.21	0.00
116-H-101	116-D-102	186	VAPOR	0	0	4027	12.575	0	1	0.00	3.54	11.60	0.00
	116-H-101		VAPOR		0		12.375			0.00	7.43		
	TOTAL									19.97		23.81	0.00

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
SDV-0049	116-H-101	4	4.5	D01	114.3	40	6.02	102.26	4.026	8	30	0.000	0.312	0.312
116-H-101	116-D-102	4	4.5	F01	114.3	80	8.56	97.18	3.826	8	30	0.000	0.282	0.282
	116-H-101											0.000	0.60	0.60
	TOTAL											0.000		1.19

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

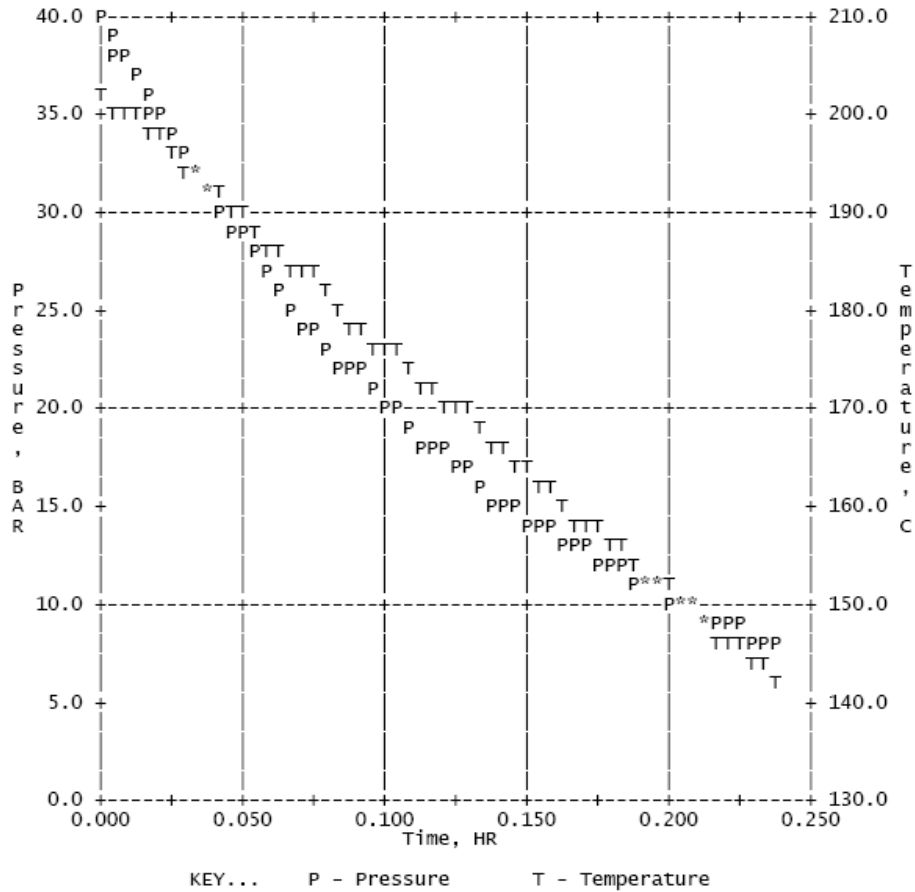
\*\*\* DEPRESSURING SUMMARY (Summer Case)



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	202.4	213.725	7.907
6.0E-03	38.371	200.8	209.457	7.904
1.2E-02	36.836	199.2	201.165	7.898
1.8E-02	35.358	197.5	193.271	7.891
2.4E-02	33.937	195.9	185.675	7.884
3.0E-02	32.571	194.3	178.374	7.877
3.6E-02	31.259	192.7	171.356	7.869
4.2E-02	29.999	191.1	164.611	7.861
4.8E-02	28.788	189.5	158.129	7.854
5.4E-02	27.626	187.9	151.899	7.846
6.0E-02	26.509	186.3	145.911	7.838
6.6E-02	25.436	184.7	140.157	7.829
7.2E-02	24.406	183.2	134.628	7.821
7.7E-02	23.417	181.6	129.314	7.812
8.3E-02	22.467	180.0	124.208	7.804
8.9E-02	21.555	178.5	119.302	7.795
9.5E-02	20.679	176.9	114.588	7.786
0.102	19.838	175.4	110.058	7.777
0.108	19.031	173.8	105.705	7.768
0.114	18.256	172.3	101.523	7.759
0.120	17.512	170.8	97.506	7.749
0.126	16.798	169.2	93.645	7.740
0.132	16.113	167.7	89.937	7.730
0.138	15.455	166.2	86.374	7.721
0.144	14.823	164.7	82.951	7.711
0.150	14.217	163.2	79.662	7.701
0.156	13.636	161.7	76.503	7.691
0.162	13.078	160.2	73.468	7.681
0.168	12.542	158.7	70.553	7.671
0.174	12.028	157.2	67.753	7.661
0.180	11.535	155.7	65.063	7.650
0.186	11.062	154.3	62.479	7.640
0.193	10.607	152.8	59.997	7.630
0.199	10.172	151.3	57.613	7.619
0.205	9.754	149.9	55.323	7.609
0.211	9.353	148.4	53.123	7.598
0.217	8.968	146.9	51.011	7.587
0.223	8.599	145.5	48.982	7.576
0.230	8.245	144.0	47.033	7.566
0.233	8.073	143.3	45.615	7.557
0.239	7.737	141.9	44.244	7.549
UNIT 25	SOLVED	-	' 116-BDV-0055-F	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 25, 'DP1', '116-BDV-0055 Fire' (Cont)



Pressure and Temperature Profiles




	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	21. 4	399. 291	4. 233
1. 1E-02	39. 260	20. 7	393. 503	4. 255
2. 2E-02	38. 527	20. 0	382. 123	4. 300
3. 3E-02	37. 788	19. 4	371. 065	4. 345
4. 4E-02	37. 044	18. 9	360. 236	4. 388
5. 5E-02	36. 295	18. 3	349. 630	4. 431
6. 5E-02	35. 541	17. 8	339. 246	4. 473
7. 6E-02	34. 784	17. 3	329. 080	4. 514
8. 6E-02	34. 023	16. 8	319. 131	4. 555
9. 6E-02	33. 261	16. 3	309. 399	4. 594
0. 106	32. 498	15. 9	299. 882	4. 632
0. 117	31. 735	15. 4	290. 580	4. 670
0. 127	30. 973	15. 0	281. 492	4. 706
0. 137	30. 214	14. 6	272. 618	4. 741
0. 146	29. 458	14. 2	263. 956	4. 776
0. 156	28. 707	13. 9	255. 506	4. 809
0. 166	27. 962	13. 5	247. 267	4. 841
0. 176	27. 223	13. 2	239. 237	4. 873
0. 185	26. 491	12. 9	231. 415	4. 903
0. 195	25. 767	12. 6	223. 800	4. 933
0. 204	25. 053	12. 3	216. 388	4. 961
0. 214	24. 348	12. 0	209. 179	4. 989
0. 223	23. 653	11. 8	202. 169	5. 016
0. 232	22. 969	11. 5	195. 356	5. 042
0. 242	22. 297	11. 3	188. 738	5. 067
0. 251	21. 636	11. 0	182. 310	5. 091
0. 260	20. 988	10. 8	176. 071	5. 114
0. 269	20. 353	10. 6	170. 019	5. 137
0. 278	19. 729	10. 4	164. 147	5. 158
0. 288	19. 120	10. 2	158. 451	5. 179
0. 297	18. 523	10. 0	152. 931	5. 200
0. 306	17. 940	9. 8	147. 582	5. 219
0. 315	17. 371	9. 7	142. 401	5. 238
0. 323	16. 815	9. 5	137. 383	5. 257
0. 332	16. 272	9. 3	132. 525	5. 274
0. 341	15. 743	9. 2	127. 823	5. 291
0. 350	15. 228	9. 0	123. 273	5. 308
0. 359	14. 726	8. 9	118. 872	5. 323
0. 368	14. 238	8. 8	114. 615	5. 339
0. 377	13. 763	8. 6	110. 498	5. 353
0. 385	13. 301	8. 5	106. 517	5. 367
0. 394	12. 851	8. 4	102. 670	5. 381
0. 403	12. 415	8. 3	98. 952	5. 394
0. 411	11. 991	8. 2	95. 360	5. 407
0. 420	11. 580	8. 1	91. 891	5. 419
0. 429	11. 181	8. 0	88. 540	5. 431
0. 437	10. 794	7. 9	85. 305	5. 442
0. 446	10. 418	7. 8	82. 181	5. 453
0. 454	10. 055	7. 7	79. 166	5. 463
0. 463	9. 702	7. 6	76. 256	5. 473
0. 472	9. 361	7. 6	73. 448	5. 483
0. 480	9. 030	7. 5	70. 739	5. 492
0. 489	8. 710	7. 4	68. 125	5. 501

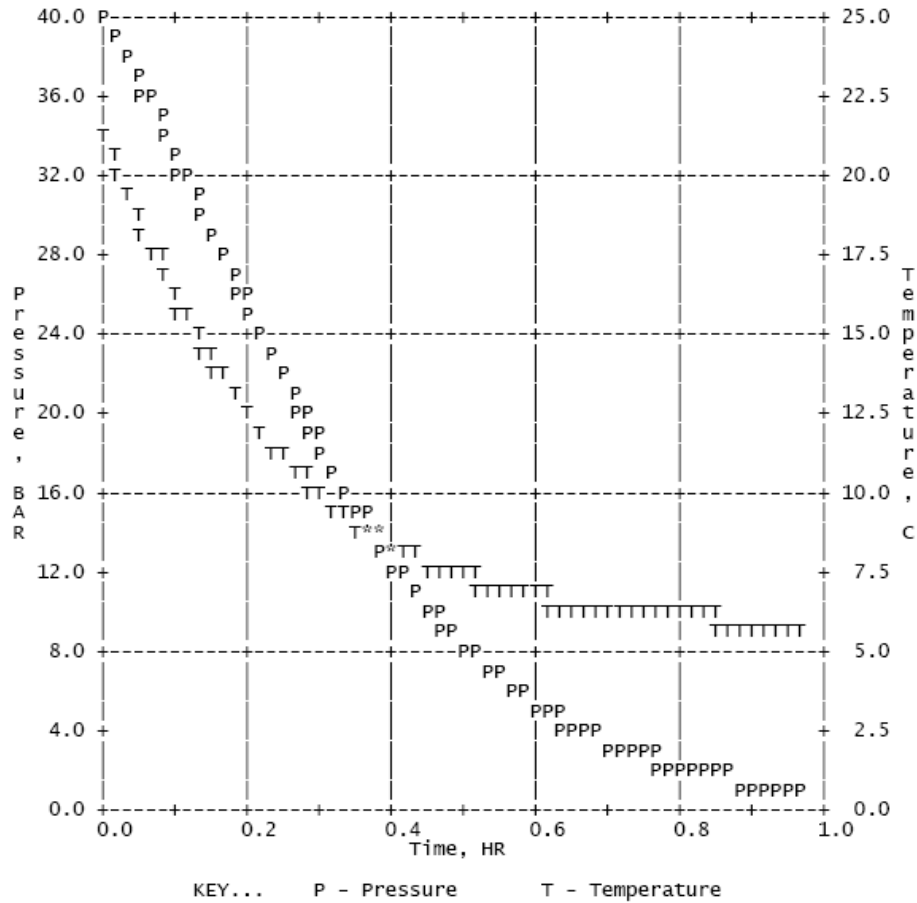
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



0. 497	8. 401	7. 3	65. 604	5. 510
0. 506	8. 101	7. 3	63. 173	5. 518
0. 514	7. 811	7. 2	60. 828	5. 526
0. 523	7. 531	7. 1	58. 567	5. 534
0. 531	7. 260	7. 1	56. 387	5. 541
0. 540	6. 998	7. 0	54. 286	5. 549
0. 548	6. 745	7. 0	52. 260	5. 556
0. 556	6. 501	6. 9	50. 308	5. 562
0. 565	6. 264	6. 9	48. 426	5. 569
0. 573	6. 036	6. 8	46. 613	5. 575
0. 582	5. 816	6. 8	44. 866	5. 581
0. 590	5. 603	6. 7	43. 182	5. 586
0. 598	5. 398	6. 7	41. 561	5. 592
0. 607	5. 200	6. 6	39. 998	5. 597
0. 615	5. 008	6. 6	38. 493	5. 602
0. 624	4. 824	6. 6	37. 044	5. 607
0. 632	4. 646	6. 5	35. 648	5. 612
0. 640	4. 474	6. 5	34. 303	5. 616
0. 649	4. 308	6. 5	33. 008	5. 621
0. 657	4. 148	6. 4	31. 761	5. 625
0. 665	3. 994	6. 4	30. 561	5. 629
0. 674	3. 846	6. 4	29. 405	5. 633
0. 682	3. 703	6. 3	28. 292	5. 636
0. 690	3. 565	6. 3	27. 220	5. 640
0. 698	3. 431	6. 3	26. 189	5. 643
0. 707	3. 303	6. 2	25. 196	5. 647
0. 715	3. 180	6. 2	24. 240	5. 650
0. 723	3. 061	6. 2	23. 320	5. 653
0. 732	2. 946	6. 2	22. 434	5. 656
0. 740	2. 835	6. 2	21. 581	5. 659
0. 748	2. 729	6. 1	20. 761	5. 661
0. 756	2. 626	6. 1	19. 971	5. 664
0. 765	2. 527	6. 1	19. 211	5. 667
0. 773	2. 432	6. 1	18. 480	5. 669
0. 781	2. 340	6. 1	17. 776	5. 671
0. 789	2. 252	6. 0	17. 099	5. 674
0. 798	2. 167	6. 0	16. 448	5. 676
0. 806	2. 085	6. 0	15. 820	5. 678
0. 814	2. 006	6. 0	15. 217	5. 680
0. 822	1. 930	6. 0	14. 637	5. 682
0. 831	1. 857	6. 0	14. 078	5. 684
0. 839	1. 787	6. 0	13. 541	5. 685
0. 847	1. 719	5. 9	13. 024	5. 687
0. 855	1. 654	5. 9	12. 526	5. 689
0. 864	1. 591	5. 9	12. 048	5. 690
0. 872	1. 531	5. 9	11. 587	5. 692
0. 880	1. 473	5. 9	11. 144	5. 693
0. 888	1. 417	5. 9	10. 718	5. 695
0. 897	1. 363	5. 9	10. 308	5. 696
0. 905	1. 311	5. 9	9. 914	5. 697
0. 913	1. 261	5. 9	9. 535	5. 699
0. 921	1. 213	5. 8	9. 170	5. 700
0. 929	1. 167	5. 8	8. 819	5. 701
0. 938	1. 122	5. 8	8. 481	5. 702
0. 946	1. 080	5. 8	8. 157	5. 703
0. 954	1. 038	5. 8	7. 844	5. 704
0. 958	1. 018	5. 8	7. 617	5. 705
0. 966	0. 979	5. 8	7. 397	5. 706
UNI T 26	SOLVED	-	' 116-BDV-0055-C	'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 26, 'DP2', '116-BDV-0055 cold' (cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	202. 4	213. 725	7. 907
6. 0E-03	38. 503	202. 1	209. 631	7. 911
1. 2E-02	37. 085	201. 8	201. 667	7. 918
1. 8E-02	35. 717	201. 6	194. 070	7. 925
2. 4E-02	34. 397	201. 3	186. 751	7. 931
3. 0E-02	33. 123	201. 1	179. 703	7. 937
3. 6E-02	31. 895	200. 9	172. 915	7. 943
4. 1E-02	30. 711	200. 6	166. 380	7. 949
4. 7E-02	29. 569	200. 4	160. 087	7. 955
5. 3E-02	28. 468	200. 2	154. 028	7. 960
5. 9E-02	27. 407	200. 0	148. 194	7. 965
6. 5E-02	26. 383	199. 8	142. 578	7. 970
7. 1E-02	25. 397	199. 7	137. 172	7. 974
7. 7E-02	24. 447	199. 5	131. 968	7. 979
8. 3E-02	23. 531	199. 3	126. 958	7. 983
8. 8E-02	22. 649	199. 1	122. 136	7. 987
9. 4E-02	21. 799	199. 0	117. 495	7. 991
0. 100	20. 980	198. 8	113. 028	7. 995
0. 106	20. 191	198. 7	108. 729	7. 999
0. 112	19. 430	198. 5	104. 592	8. 002
0. 118	18. 698	198. 4	100. 610	8. 006
0. 124	17. 993	198. 3	96. 778	8. 009
0. 129	17. 314	198. 1	93. 091	8. 012
0. 135	16. 660	198. 0	89. 543	8. 015
0. 141	16. 031	197. 9	86. 129	8. 018
0. 147	15. 424	197. 8	82. 844	8. 021
0. 153	14. 841	197. 7	79. 683	8. 024
0. 159	14. 279	197. 6	76. 642	8. 026
0. 165	13. 738	197. 5	73. 716	8. 029
0. 170	13. 217	197. 4	70. 901	8. 031
0. 176	12. 715	197. 3	68. 192	8. 033
0. 182	12. 233	197. 2	65. 587	8. 036
0. 188	11. 768	197. 1	63. 080	8. 038
0. 194	11. 321	197. 0	60. 669	8. 040
0. 199	10. 890	197. 0	58. 349	8. 042
0. 205	10. 476	196. 9	56. 117	8. 043
0. 211	10. 078	196. 8	53. 970	8. 045
0. 217	9. 694	196. 7	51. 905	8. 047
0. 223	9. 325	196. 7	49. 918	8. 049
0. 229	8. 970	196. 6	48. 008	8. 050
0. 234	8. 628	196. 5	46. 170	8. 052
0. 240	8. 299	196. 5	44. 402	8. 053
0. 246	7. 982	196. 4	42. 701	8. 055
0. 252	7. 678	196. 4	41. 065	8. 056
0. 258	7. 385	196. 3	39. 492	8. 057
0. 263	7. 103	196. 3	37. 979	8. 058
0. 269	6. 832	196. 2	36. 523	8. 060
0. 275	6. 571	196. 2	35. 123	8. 061
0. 281	6. 320	196. 1	33. 777	8. 062
0. 287	6. 078	196. 1	32. 482	8. 063
0. 292	5. 846	196. 0	31. 236	8. 064
0. 298	5. 622	196. 0	30. 038	8. 065
0. 304	5. 407	195. 9	28. 886	8. 066
0. 310	5. 200	195. 9	27. 778	8. 067

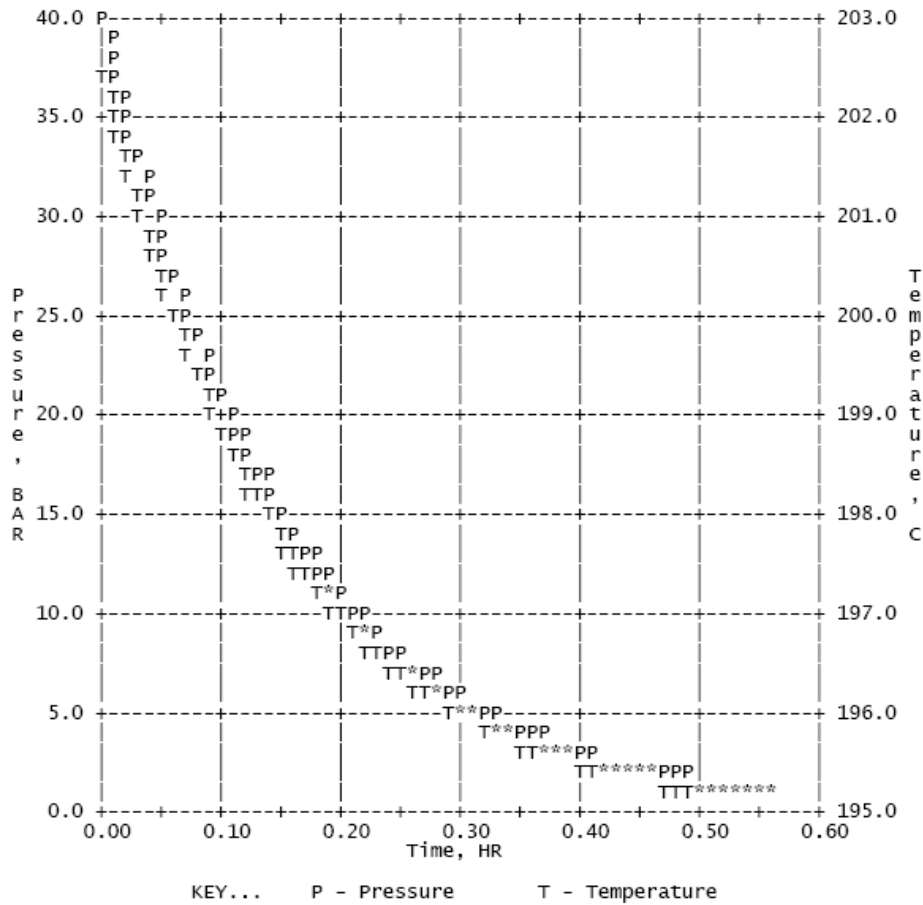


	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

0. 316	5. 001	195. 9	26. 713	8. 068
0. 322	4. 810	195. 8	25. 688	8. 069
0. 327	4. 626	195. 8	24. 702	8. 069
0. 333	4. 449	195. 8	23. 754	8. 070
0. 339	4. 278	195. 7	22. 843	8. 071
0. 345	4. 114	195. 7	21. 966	8. 072
0. 351	3. 957	195. 7	21. 123	8. 072
0. 356	3. 805	195. 7	20. 312	8. 073
0. 362	3. 659	195. 6	19. 532	8. 074
0. 368	3. 519	195. 6	18. 782	8. 074
0. 374	3. 384	195. 6	18. 061	8. 075
0. 380	3. 255	195. 6	17. 368	8. 075
0. 385	3. 130	195. 5	16. 701	8. 076
0. 391	3. 010	195. 5	16. 059	8. 076
0. 397	2. 894	195. 5	15. 443	8. 077
0. 403	2. 783	195. 5	14. 850	8. 077
0. 409	2. 677	195. 4	14. 279	8. 078
0. 414	2. 574	195. 4	13. 731	8. 078
0. 420	2. 475	195. 4	13. 203	8. 079
0. 426	2. 380	195. 4	12. 696	8. 079
0. 432	2. 289	195. 4	12. 208	8. 079
0. 438	2. 201	195. 4	11. 739	8. 080
0. 443	2. 117	195. 3	11. 288	8. 080
0. 449	2. 035	195. 3	10. 855	8. 081
0. 455	1. 957	195. 3	10. 438	8. 081
0. 461	1. 882	195. 3	10. 036	8. 081
0. 466	1. 810	195. 3	9. 651	8. 082
0. 472	1. 740	195. 3	9. 280	8. 082
0. 478	1. 674	195. 3	8. 923	8. 082
0. 484	1. 609	195. 3	8. 580	8. 082
0. 490	1. 547	195. 2	8. 251	8. 083
0. 495	1. 488	195. 2	7. 934	8. 083
0. 501	1. 431	195. 2	7. 629	8. 083
0. 507	1. 376	195. 2	7. 335	8. 083
0. 513	1. 323	195. 2	7. 054	8. 084
0. 519	1. 272	195. 2	6. 782	8. 084
0. 524	1. 223	195. 2	6. 522	8. 084
0. 530	1. 176	195. 2	6. 271	8. 084
0. 536	1. 131	195. 2	6. 030	8. 084
0. 542	1. 088	195. 2	5. 798	8. 085
0. 548	1. 046	195. 2	5. 575	8. 085
0. 550	1. 026	195. 1	5. 413	8. 085
0. 556	0. 986	195. 1	5. 256	8. 085
UNI T    27	SOLVED	-	' 116-BDV-0055-S	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 27, 'DP3', '116-BDV-0055 Spurious' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.8 BDV 0089(Summer Case)



FROM	TO	STREAM TAG	PHASE	LIQUID RATE kg/hr	LIQUID DENSITY kg/m3	VAPOR RATE kg/hr	VAPOR DENSITY kg/m3	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT kg	VAPOR WEIGHT kg	TOTAL AREA m2	WETTED AREA m2
116-A-101	116-D-103	S11	MIXED	407.9	983.22	4053.3	22.205	0.0023	0.9977	0.33	3.28	5.78	0.353
116-D-103	SDV-0065	189	LIQUID	407.9	983.26	0	0	1	0	18.71	0.00	1.55	1.55
116-D-103	116-K-101A	188	VAPOR	0	0	4053.3	22.078	0	1	0.00	6.18	7.27	0.00
116-D-103	116-K-101B	188	VAPOR	0	0	4053.3	22.078	0	1	0.00	6.18	7.27	0.00
116-K-101A	116-E-101	190	VAPOR	0	0	4053.3	27.24	0	1	0.00	4.47	6.43	0.00
116-K-101B	116-E-101	190	VAPOR	0	0	4053.3	27.24	0	1	0.00	4.47	6.43	0.00
116-F-101	116-D-103	185	VAPOR	0	0	4027	28.835	0	1	0.00	6.63	9.00	0.00
116-D-102A/B	116-A-101	187	VAPOR	0	0	4461.2	11.778	0	1	0.00	1.31	4.58	0.00
	116-K-101A/B	190			0		27.24			0.00	54.48		
	116-A-101	S11			983.22		22.205			0.00	5.77		
	116-D-103	188/189			983.26		22.078			603.66	20.26	8.67	3.53
	TOTAL									622.70	113.05	56.95	5.44

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
116-A-101	116-D-103	4	4.5	D03	114.3	40	6.02	102.26	4.026	8	10	0.000	0.147	0.148
116-D-103	SDV-0065	2	2.37	D03	60.3	80	5.54	49.22	1.934	0	10	0.0190	0.000	0.019
116-D-103	116-K-101A	6	6.63	D03	168.4	40	7.11	154.18	6.070	0	15	0.000	0.280	0.280
116-D-103	116-K-101B	6	6.63	D03	168.4	40	7.11	154.18	6.070	0	15	0.000	0.280	0.280
116-K-101A	116-E-101	4	4.5	D03	114.3	40	6.02	102.26	4.026	0	20	0.000	0.164	0.164
116-K-101B	116-E-101	4	4.5	D03	114.3	40	6.02	102.26	4.026	0	20	0.000	0.164	0.164
116-F-101	116-D-103	4	4.5	D01	114.3	40	6.02	102.26	4.026	8	20	0.000	0.230	0.230
116-D-102A/B	116-A-101	4	4.5	F03	114.3	80	8.56	97.18	3.826	0	15	0.000	0.111	0.111
	116-K-101A/B												2.00	2.00
	116-A-101												0.26	0.26
	116-D-103											0.61	0.92	1.53
	TOTAL											0.63		5.19

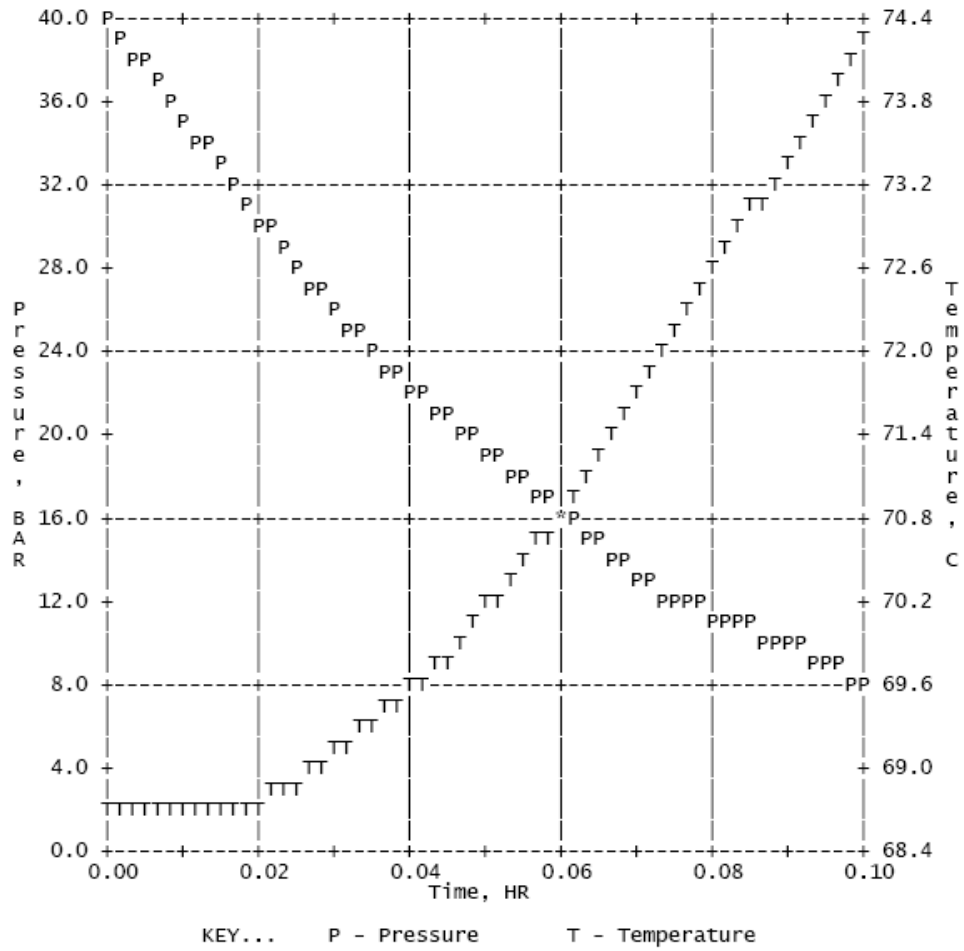
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	68.8	4313.970	80.195
8.0E-03	35.873	68.7	4060.428	80.808
1.6E-02	31.924	68.7	3571.940	82.081
2.5E-02	27.929	68.9	3107.018	83.306
3.5E-02	23.926	69.3	2653.109	84.523
4.6E-02	19.945	69.9	2213.028	85.728
5.9E-02	16.027	70.8	1789.537	86.928
7.5E-02	12.245	72.2	1386.969	88.150
9.4E-02	8.659	73.8	1010.956	89.419
0.100	7.844	74.3	789.752	90.369
UNIT 1	SOLVED	-	' 116-BDV-0089-F	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



UNIT 1, 'DP1', '116-BDV-0089 Fire' (Cont)  
Pressure and Temperature Profiles



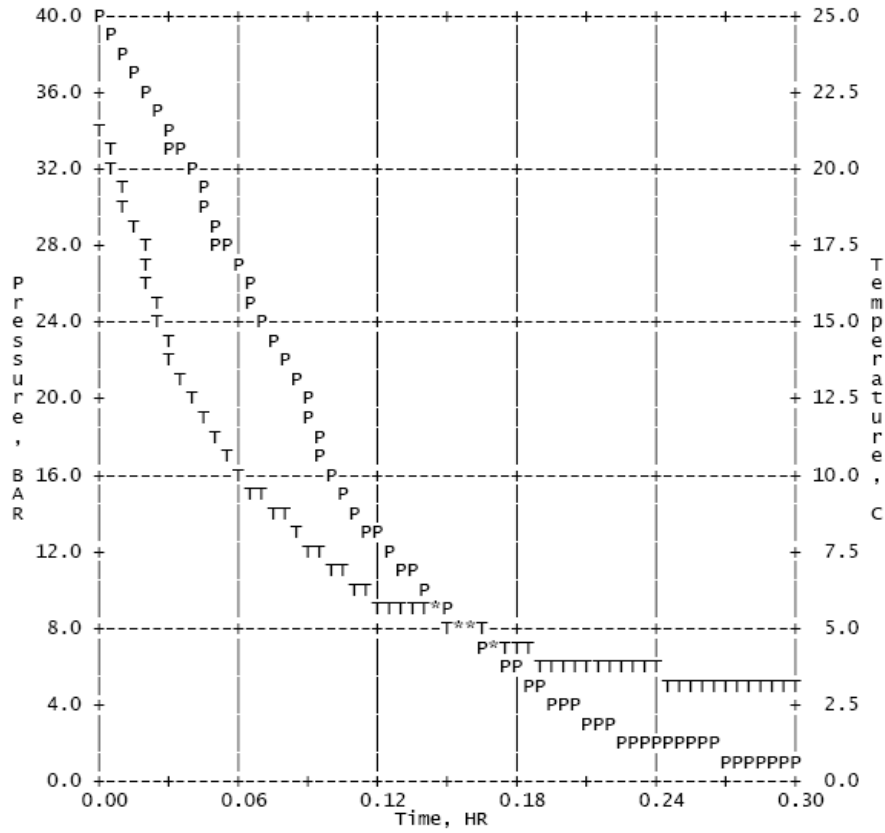
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



\*\*\* DEPRESSURING SUMMARY (Summer Case)

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	21. 4	5712. 927	60. 557
6. 4E-03	38. 653	19. 8	5581. 189	60. 943
1. 3E-02	37. 353	18. 2	5327. 822	61. 692
1. 9E-02	36. 069	16. 7	5091. 117	62. 366
2. 6E-02	34. 807	15. 1	4866. 485	62. 983
3. 2E-02	33. 472	13. 7	4636. 709	63. 681
3. 9E-02	31. 898	12. 8	4367. 023	64. 733
4. 5E-02	30. 234	11. 9	4069. 066	66. 032
5. 2E-02	28. 475	11. 0	3772. 214	67. 305
5. 9E-02	26. 628	10. 2	3476. 132	68. 551
6. 7E-02	24. 700	9. 4	3181. 501	69. 769
7. 5E-02	22. 702	8. 7	2889. 029	70. 955
8. 3E-02	20. 642	8. 0	2599. 483	72. 107
9. 2E-02	18. 533	7. 4	2313. 690	73. 222
0. 102	16. 388	6. 8	2032. 559	74. 299
0. 112	14. 222	6. 2	1757. 111	75. 335
0. 124	12. 060	5. 9	1488. 785	76. 340
0. 138	9. 902	5. 3	1228. 684	77. 297
0. 154	7. 789	4. 8	978. 525	78. 182
0. 173	5. 755	4. 4	741. 303	79. 007
0. 198	3. 852	3. 9	520. 875	79. 762
0. 232	2. 163	3. 5	323. 431	80. 428
0. 253	1. 517	3. 4	196. 605	80. 945
0. 277	1. 006	3. 2	134. 411	81. 184
0. 301	0. 638	3. 2	87. 377	81. 394
UNI T	2	SOLVED	- ' 116-BDV-0089-C	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 2, 'DP2', '116-BDV-0089 cold' (Cont)  
Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY (Summer Case)

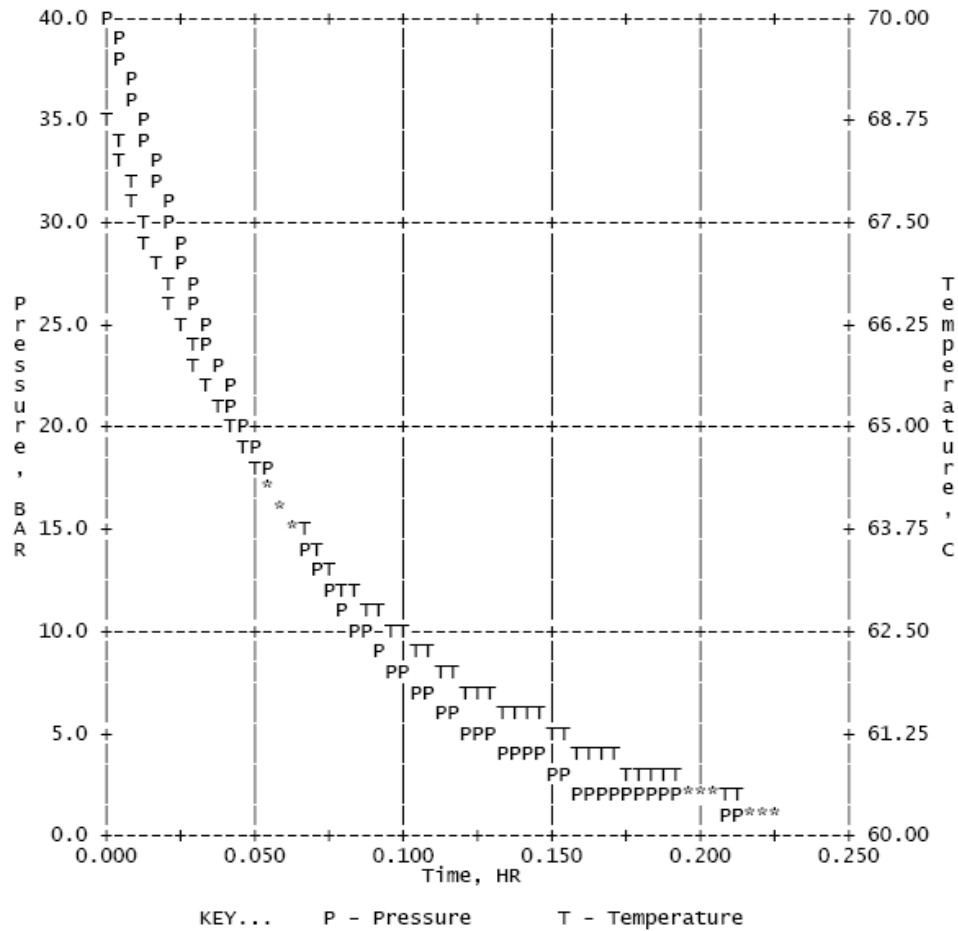
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	68.8	4313.970	80.195
8.0E-03	35.729	67.8	4056.496	80.733
1.6E-02	31.674	67.0	3561.390	81.846
2.5E-02	27.596	66.2	3091.654	82.904
3.5E-02	23.534	65.4	2634.169	83.940
4.6E-02	19.517	64.7	2191.655	84.946
6.0E-02	15.584	63.9	1766.691	85.919
7.5E-02	11.799	63.4	1363.251	86.865
9.5E-02	8.229	62.6	986.723	87.779
0.122	5.017	61.8	646.028	88.667
0.141	3.519	61.4	412.387	89.506
0.162	2.405	61.1	284.187	90.147
0.182	1.675	60.8	194.120	90.892
0.223	0.849	60.2	118.471	92.132
UNIT	3	SOLVED	- '116-BDV-0089-S	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, 'DP3', '116-BDV-0089 Spurious' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.9 BDV-0155

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTED AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
SDV-11/13	116-D-111	181	VAPOR	0	0	65500	35	0.0000	1.0000	0.00	142.11	63.09	0.00
116-D-111	116-C-111	1V	VAPOR	0	0	65500	35	0	1	0.00	52.84	23.46	0.00
116-D-111	SDV-0157	drain	NNF	0	0	0	0			0.00	0.00	2.45	0.00
116-D-111		1V			0		35			0.00	116.74	18.91	8.36
TOTAL										0.00	311.69	107.90	8.36



FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
SDV-11/13	116-D-111	10	10.75	D01	273.1	30	7.8	257.45	10.136	8	70	0.000	4.060	4.060
116-D-111	116-C-111	10	10.75	D01	273.1	30	7.8	257.45	10.136	5	24	0.0000	1.510	1.510
116-D-111	SDV-0157	3	3.5	D03	88.9	40	5.49	77.92	3.068	0	10	0.000	0.000	0.048
116-D-111												2.57	3.34	5.90
TOTAL												2.57		11.52

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

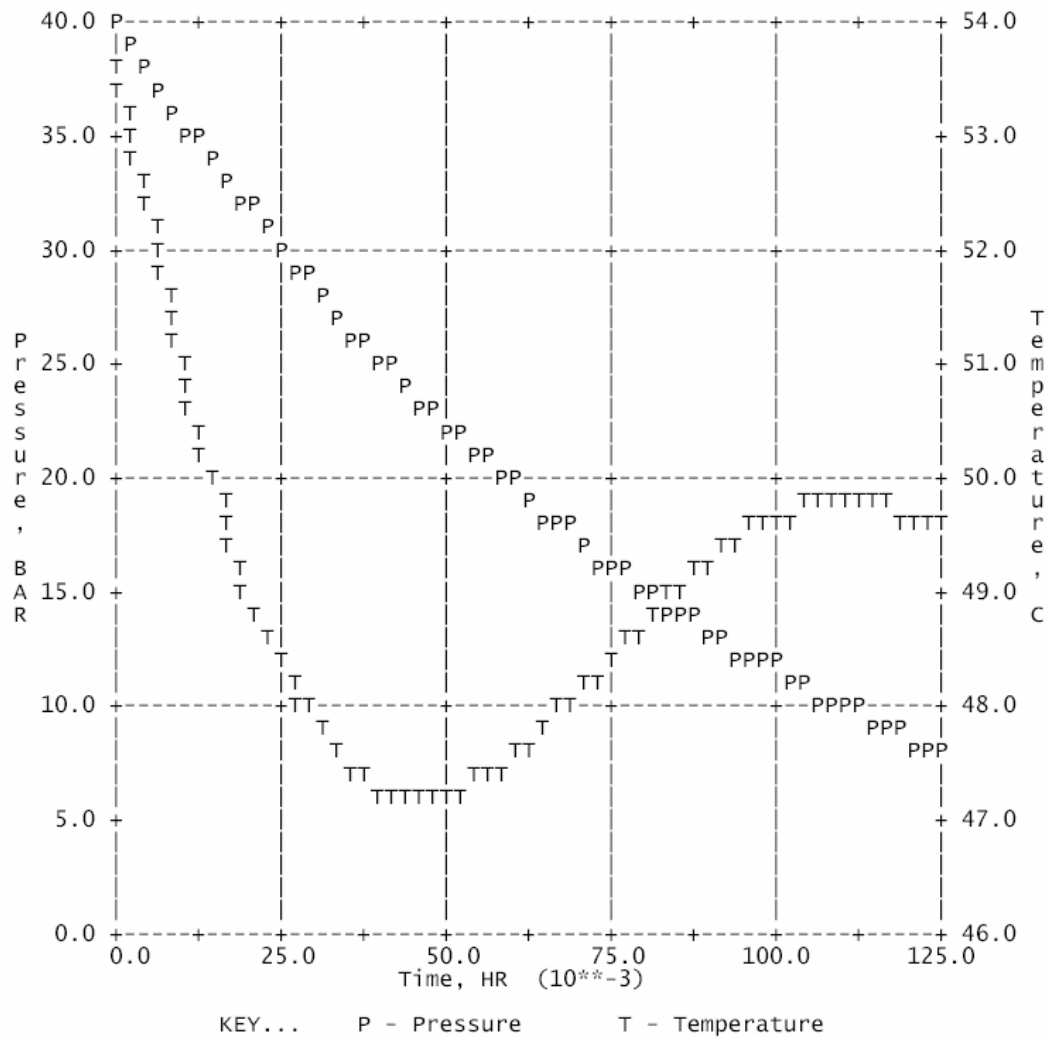
\*\*\* DEPRESSURING SUMMARY-FIRE CASE



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	53. 7	9778. 036	160. 376
2. 9E-03	38. 707	52. 8	9602. 662	160. 665
5. 7E-03	37. 478	52. 0	9260. 945	161. 256
8. 5E-03	36. 294	51. 3	8934. 621	161. 851
1. 1E-02	35. 148	50. 6	8620. 328	162. 452
1. 4E-02	34. 039	50. 1	8317. 207	163. 058
1. 7E-02	32. 965	49. 5	8024. 798	163. 667
2. 0E-02	31. 924	49. 1	7742. 658	164. 279
2. 2E-02	30. 916	48. 7	7470. 371	164. 891
2. 5E-02	29. 939	48. 3	7207. 547	165. 504
2. 8E-02	28. 991	48. 0	6953. 818	166. 114
3. 1E-02	28. 071	47. 8	6708. 834	166. 723
3. 3E-02	27. 178	47. 6	6472. 267	167. 328
3. 6E-02	26. 312	47. 4	6243. 802	167. 928
3. 9E-02	25. 471	47. 3	6023. 141	168. 523
4. 1E-02	24. 654	47. 2	5810. 003	169. 112
4. 4E-02	23. 861	47. 2	5604. 117	169. 693
4. 7E-02	23. 090	47. 2	5405. 226	170. 267
5. 0E-02	22. 342	47. 2	5213. 085	170. 831
5. 2E-02	21. 615	47. 2	5027. 460	171. 387
5. 5E-02	20. 909	47. 3	4848. 123	171. 932
5. 7E-02	20. 223	47. 4	4674. 863	172. 466
6. 0E-02	19. 556	47. 5	4507. 474	172. 989
6. 3E-02	18. 909	47. 7	4345. 757	173. 500
6. 5E-02	18. 280	47. 8	4189. 525	173. 998
6. 8E-02	17. 669	48. 0	4038. 595	174. 483
7. 1E-02	17. 076	48. 1	3892. 794	174. 955
7. 3E-02	16. 500	48. 3	3751. 954	175. 413
7. 6E-02	15. 940	48. 4	3615. 914	175. 856
7. 8E-02	15. 397	48. 6	3484. 518	176. 285
8. 1E-02	14. 870	48. 8	3357. 618	176. 700
8. 4E-02	14. 358	48. 9	3235. 069	177. 099
8. 6E-02	13. 862	49. 1	3116. 732	177. 484
8. 9E-02	13. 380	49. 2	3002. 486	177. 854
9. 1E-02	12. 913	49. 3	2892. 184	178. 208
9. 4E-02	12. 460	49. 4	2785. 689	178. 547
9. 6E-02	12. 021	49. 5	2682. 899	178. 871
9. 9E-02	11. 596	49. 6	2583. 691	179. 180
0. 101	11. 184	49. 7	2487. 954	179. 475
0. 104	10. 784	49. 7	2395. 575	179. 754
0. 107	10. 398	49. 8	2306. 449	180. 020
0. 109	10. 024	49. 8	2220. 513	180. 271
0. 112	9. 660	49. 8	2137. 520	180. 509
0. 114	9. 310	49. 8	2057. 440	180. 733
0. 117	8. 970	49. 7	1980. 315	180. 944
0. 119	8. 642	49. 7	1905. 949	181. 142
0. 122	8. 326	49. 6	1834. 286	181. 328
0. 123	8. 171	49. 6	1782. 008	181. 463
0. 125	7. 924	49. 5	1737. 559	181. 574

UNIT 1 SOLVED - 'BDV-0155-FIRE'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



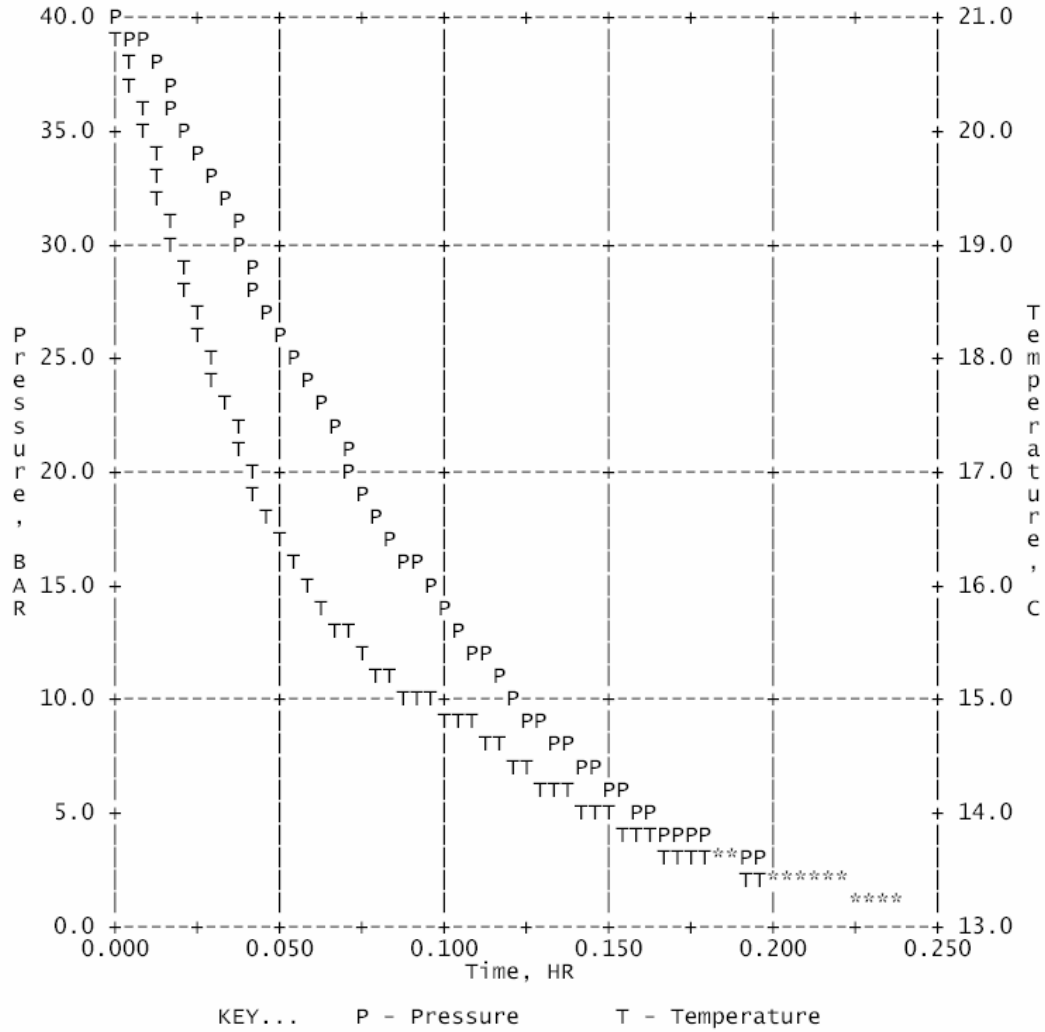
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY-COLD CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	40. 000	20. 9	12580. 657	124. 648
1. 1E-02	37. 757	19. 6	11941. 588	127. 638
2. 2E-02	34. 956	18. 5	10646. 773	133. 874
3. 4E-02	31. 508	17. 5	9312. 904	139. 894
4. 8E-02	27. 445	16. 6	7925. 752	145. 801
6. 3E-02	22. 837	15. 8	6505. 552	151. 504
8. 1E-02	17. 818	15. 1	5078. 768	156. 910
0. 103	12. 616	14. 8	3683. 569	161. 950
0. 132	7. 536	14. 1	2373. 293	166. 442
0. 171	3. 598	13. 6	1283. 155	170. 089
0. 204	1. 889	13. 4	622. 970	172. 651
0. 240	0. 941	13. 3	319. 037	173. 874
UNI T	2	SOLVED	- ' BDV-0155-COLD'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

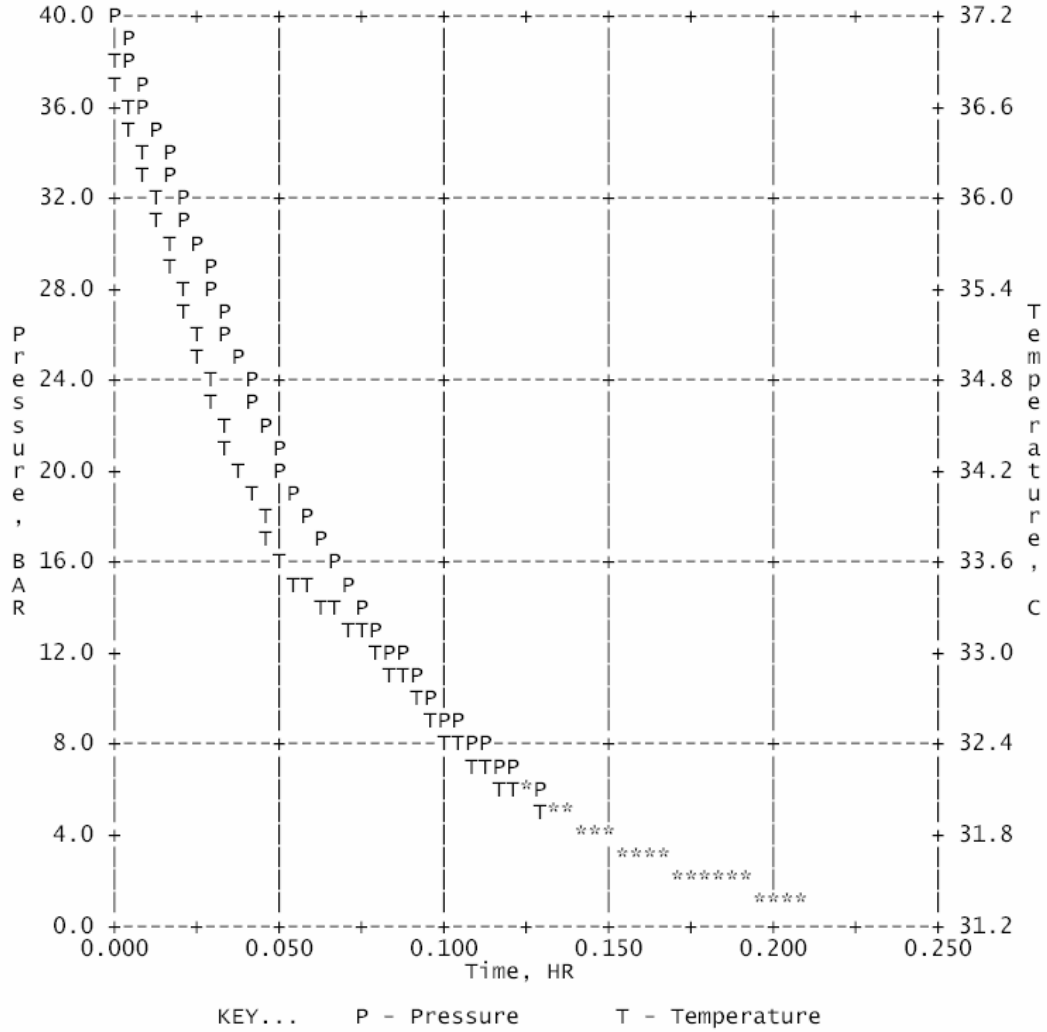
\*\*\* DEPRESSURING SUMMARY-SPURIOUS CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	36.9	10633.944	147.467
1.2E-02	35.143	35.8	9822.093	149.963
2.5E-02	30.128	34.9	8242.513	155.224
3.9E-02	24.683	34.1	6709.224	160.139
5.6E-02	18.973	33.4	5191.338	164.840
7.8E-02	13.225	33.0	3729.115	169.246
0.107	7.752	32.3	2374.055	173.199
0.144	3.730	31.8	1275.473	176.452
0.176	1.962	31.5	623.903	178.812
0.210	0.994	31.4	321.409	180.245



UNIT      3            SOLVED      - 'BDV-0155-S'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.14.10      BDV-0173

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTED AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
116-C-111	SDV-0161	4	LIQUID	139567.4	1049.5	0	0	1	0	339.15	0.00	6.37	6.37
116-C-111	116-P-113	42	LIQUID	4000.2	983.6	0	0	1	0	46.90	0.00	2.45	2.45
116-P-113	116-C-111	44	LIQUID	4331.2	983.5	0	0	1	0	37.27	0.00	3.09	3.09
116-D-112	SDV-0172	3L	LIQUID	8	983.5	0	0	1	0	154.77	0.00	8.08	8.08
116-D-111	116-C-111	1V	VAPOUR	0	0	65500	34.75	0	1	0.00	68.74	30.73	0.00
116-C-111	116-D-112	3	VAPOUR	0	0	61658.6	30	0	1	0.00	15.26	8.00	0.00
116-D-112	SDV-0004	3V	VAPOUR	0	0	61658.6	30	0	1	0.00	44.44	19.30	0.00
SDV-0162	116-C-111	2A	LIQUID	135736.5	1028	0	0	1	0	830.50	0.00	15.93	15.93
116-C-111					1049.5		34.75			12017.93	2217.77	170.66	27.14
116-D-112					983.5		30			11174.62	265.46	44.61	24.82
TOTAL										13426.52	2346.22	264.61	63.06

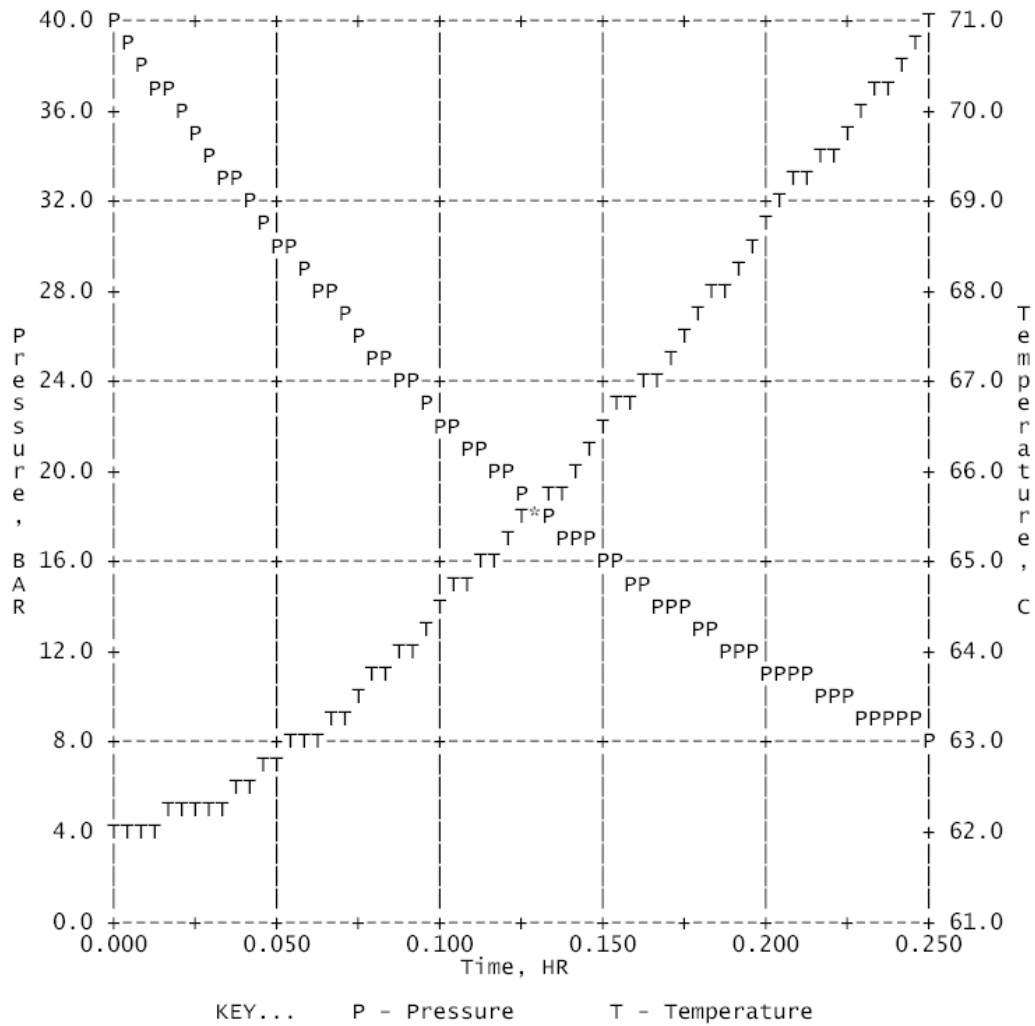
FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
116-C-111	SDV-0161	8	8.63	D48	219.2	40	8.18	202.84	7.986	0	10	0.323	0.00	0.323
116-C-111	116-P-113	3	3.5	D03N	88.9	40	5.49	77.92	3.068	0	10	0.048	0.000	0.048
116-P-113	116-C-111	2	2.37	D03N	60.2	80	5.54	49.12	1.934	10	10	0.038	0.000	0.038
116-D-112	SDV-0172	3	3.5	D03N	88.9	40	5.49	77.92	3.068	8	25	0.157	0.000	0.157
116-D-111	116-C-111	10	10.75	D01	273.1	30	7.8	257.45	10.136	8	30	0.000	1.978	1.978
116-C-111	116-D-112	10	10.75	D03N	273.1	40	9.27	254.51	10.020	0	10	0.000	0.509	0.509
116-D-112	SDV-0004	12	12.75	D01	323.9	30	8.38	307.09	12.090	0	20	0.000	1.481	1.481
SDV-0162	116-C-111	8	8.63	D03N	219.2	40	8.18	202.84	7.986	10	15	0.808	0.000	0.808
116-C-111												11.45	63.82	75.27
116-D-112												11.36	8.85	20.21
TOTAL												12.83		80.61


	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY-FIRE CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	61.9	28594.315	503.597
1.0E-02	37.953	62.0	27730.625	505.995
2.0E-02	35.960	62.1	26043.244	510.855
3.0E-02	34.021	62.3	24435.369	515.501
4.0E-02	32.142	62.5	22905.268	519.936
5.0E-02	30.328	62.8	21452.421	524.162
6.0E-02	28.580	63.1	20075.261	528.181
7.0E-02	26.902	63.4	18771.983	532.001
8.0E-02	25.294	63.7	17540.542	535.627
9.0E-02	23.757	64.0	16378.700	539.067
1.0E-01	22.293	64.4	15284.058	542.330
0.110	20.899	64.8	14254.096	545.425
0.120	19.576	65.2	13286.202	548.360
0.130	18.323	65.6	12377.705	551.146
0.140	17.138	66.0	11525.903	553.792
0.150	16.018	66.4	10728.091	556.308
0.160	14.963	66.8	9981.576	558.703
0.170	13.970	67.3	9283.704	560.986
0.180	13.046	67.9	8633.639	563.248
0.190	12.168	68.3	8026.708	565.417
0.200	11.344	68.7	7458.786	567.410
0.210	10.574	69.2	6929.628	569.330
0.220	9.852	69.6	6436.870	571.184
0.230	9.178	70.1	5978.320	572.982
0.240	8.549	70.5	5551.859	574.733
0.250	7.962	71.0	5155.466	576.444
UNIT	25	SOLVED	- ' BDV-0173-F	

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

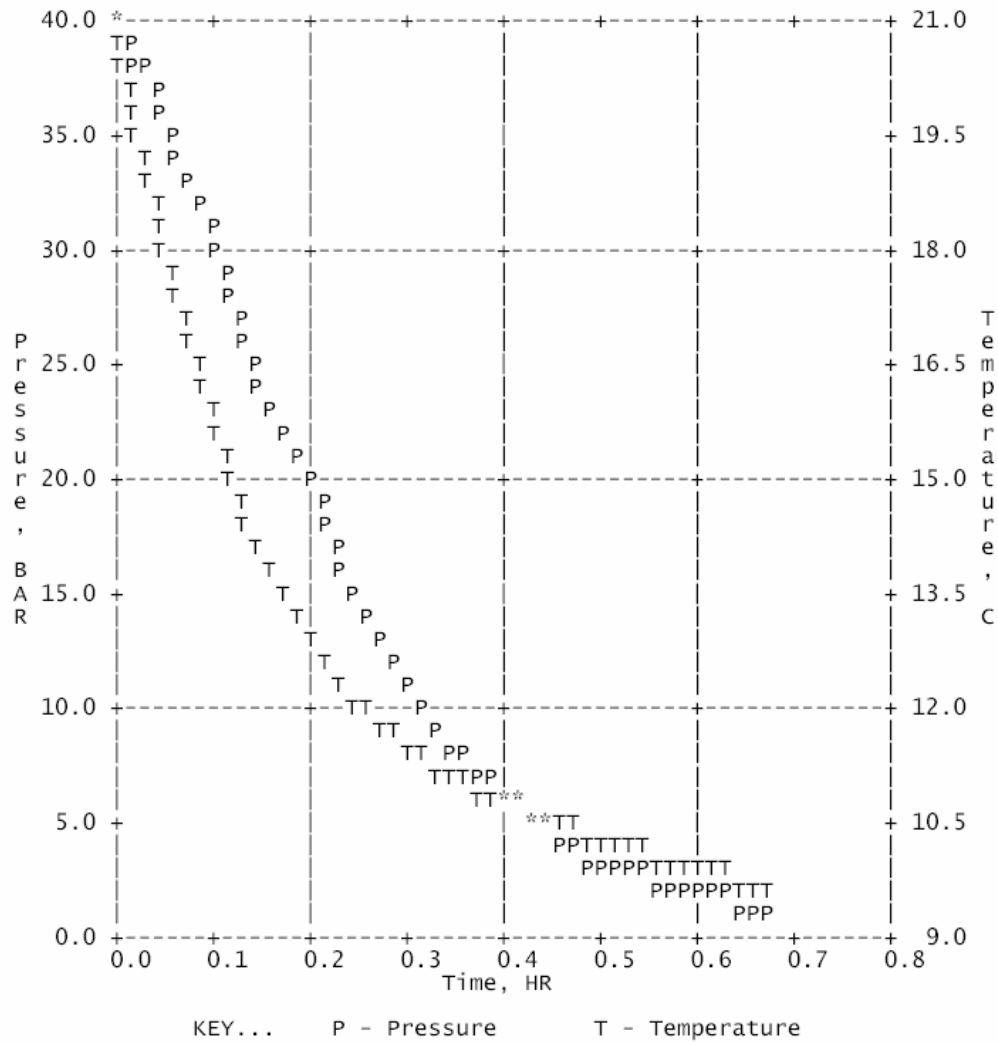
\*\*\* DEPRESSURING SUMMARY-COLD CASE



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	21.0	38440.305	374.607
2.0E-02	38.396	19.6	37007.798	381.303
4.1E-02	36.539	18.4	34136.865	395.120
6.2E-02	34.374	17.3	31238.540	408.607
8.5E-02	31.910	16.3	28277.373	421.933
0.108	29.162	15.3	25272.022	434.987
0.134	26.158	14.5	22243.756	447.662
0.162	22.936	13.7	19216.486	459.861
0.194	19.544	13.0	16216.959	471.499
0.230	16.042	12.3	13275.796	482.493
0.273	12.511	11.8	10429.130	492.821
0.325	9.031	11.2	7719.588	502.303
0.394	5.753	10.7	5211.125	510.652
0.494	2.890	10.1	3004.932	517.730
0.581	1.571	9.9	1534.502	523.234
0.673	0.822	9.7	818.853	525.978

UNIT 1 SOLVED - 'BDV-0173-C'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



Pressure and Temperature Profiles



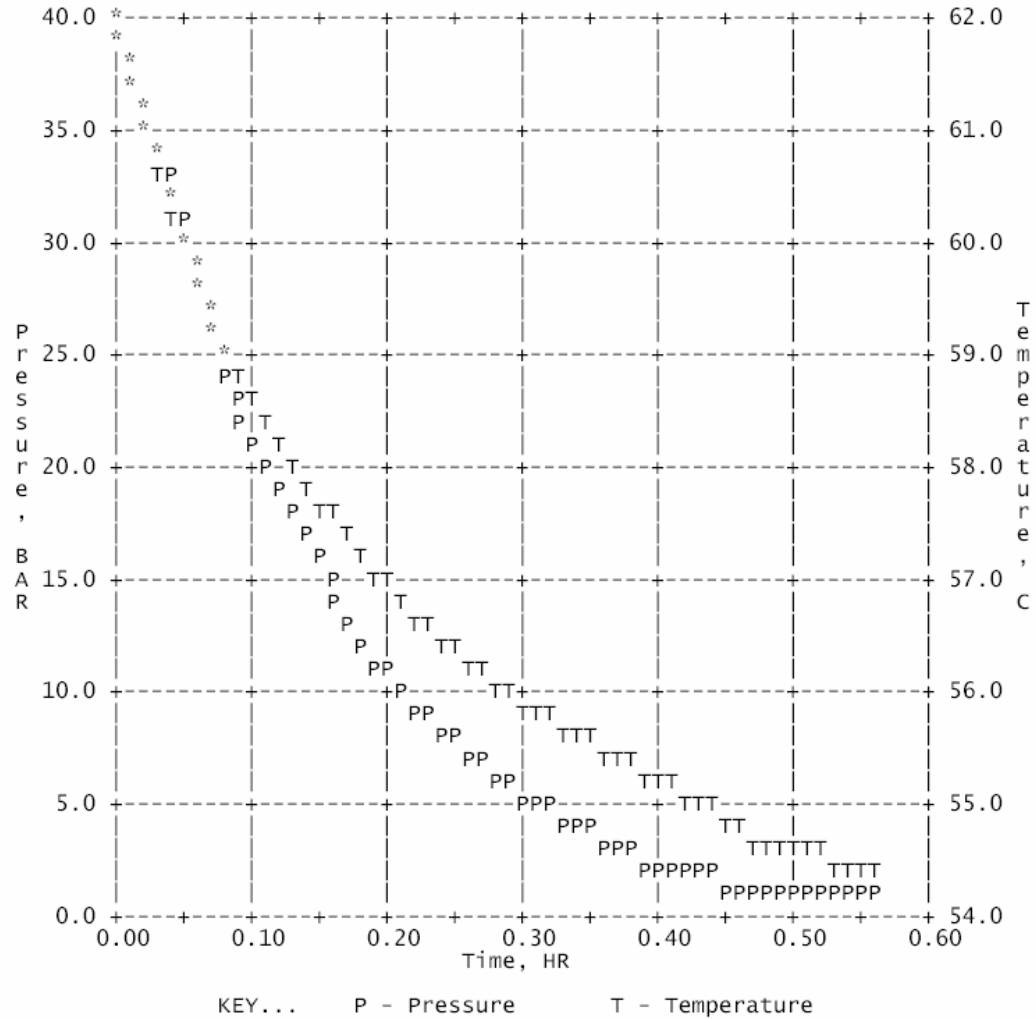
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY-SPURIOUS CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	40.000	61.9	28594.315	503.597
2.3E-02	35.185	60.9	26643.205	507.944
4.6E-02	30.607	60.1	22906.725	516.990
7.3E-02	25.977	59.3	19382.863	525.474
0.103	21.362	58.5	15966.646	533.677
0.138	16.820	57.8	12691.596	541.514
0.181	12.440	57.2	9593.900	548.977
0.237	8.332	56.5	6725.042	555.979
0.314	4.698	55.7	4169.343	562.512
0.400	2.460	55.1	2264.337	569.019
0.481	1.366	54.7	1196.209	575.732
0.565	0.778	54.4	660.675	584.214
UNIT	2	SOLVED	- 'BDV-0173-S'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

**5.14.11    BDV-0181**

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	WETTED AREA
				kg/hr	kg/m3	kg/hr	kg/m3			kg	kg	m2	m2
SDV-0172	116-D-113	3L	LIQUID	8	983.5	0	0	1	0	93.80	0.00	4.90	4.90
SDV-0161	116-D-113	4V&4L	MIXED	139501	1049.4	66.5	8.76	0.9460	0.0540	664.95	0.32	12.97	12.27
116-P-111A/B	116-C-113	2B	LIQUID	1052.4	1027.8	0	0	1	0	67.25	0.00	6.28	6.28
116-D-113	SDV-0183	6	LIQUID	146806	1048.2	0	0	1	0	702.12	0.00	12.97	12.97
SDV-0163	116-D-113	45	LIQUID	341.6	984	0	0	1	0	33.56	0.00	2.78	2.78
116-C-113	F.GAS users	5	VAPOUR	0	0	68.3	8.97	0	1	0.00	1.53	13.89	0.00
116-D-113					1048.2		8.97			15827.82	25.12		30.80
116-C-113					1048.2		8.97			263.81	1.00	4.80	3.28
TOTAL										17389.50	26.96	53.79	70.00



FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		inch	inch		mm		mm	mm	inch	m	m	m3	m3	m3
SDV-0172	116-D-113	3	3.5	D03N	88.9	40	5.49	77.92	3.068	0	20	0.095	0.00	0.095
SDV-0161	116-D-113	8	8.63	D03N	219.2	20	6.35	206.50	8.130	0	20	0.634	0.036	0.670
116-P-111A/B	116-C-113	1.5	1.9	D03N	48.3	80	3.3	41.66	1.640	8	40	0.065	0.000	0.065
116-D-113	SDV-0183	8	8.63	B48	219.2	20	6.35	206.50	8.130	0	20	0.670	0.000	0.670
SDV-0163	116-D-113	2	2.37	B03N	60.2	80	5.54	49.12	1.934	8	10	0.034	0.000	0.034
116-C-113	F.GAS users	2	2.37	B03N	60.2	80	5.54	49.12	1.934	0	90	0.000	0.171	0.171
116-D-113												15.10	2.80	17.90
116-C-113												0.25	0.11	0.36
TOTAL												16.60		19.61



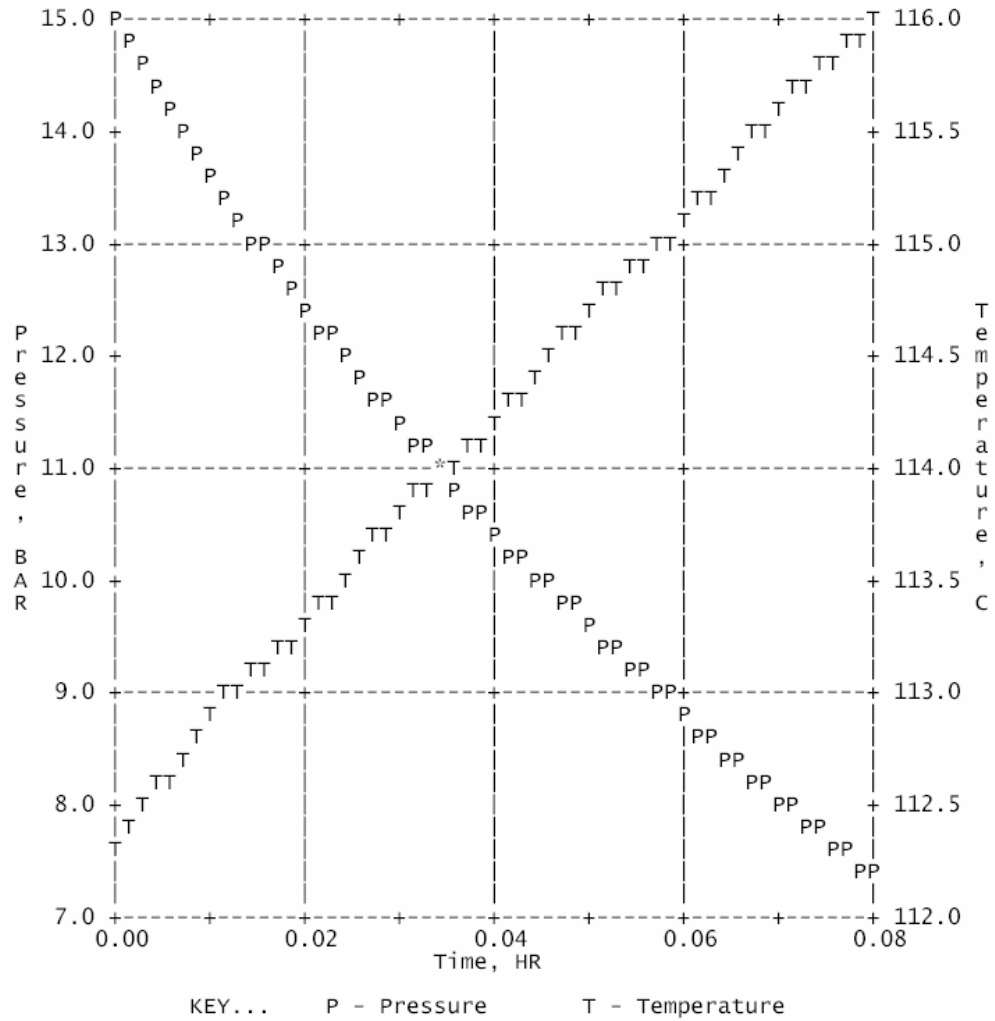
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY-FIRE CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	15.000	112.3	2059.947	104.857
1.0E-02	13.688	112.9	1964.477	105.143
2.0E-02	12.484	113.3	1782.003	105.745
3.0E-02	11.400	113.8	1616.768	106.363
4.0E-02	10.423	114.2	1468.163	107.019
5.0E-02	9.543	114.7	1334.509	107.720
6.0E-02	8.751	115.1	1214.307	108.471
7.0E-02	8.039	115.6	1106.215	109.280
8.0E-02	7.398	116.0	1009.034	110.152
UNIT	3	SOLVED	- 'BDV-0181-F'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

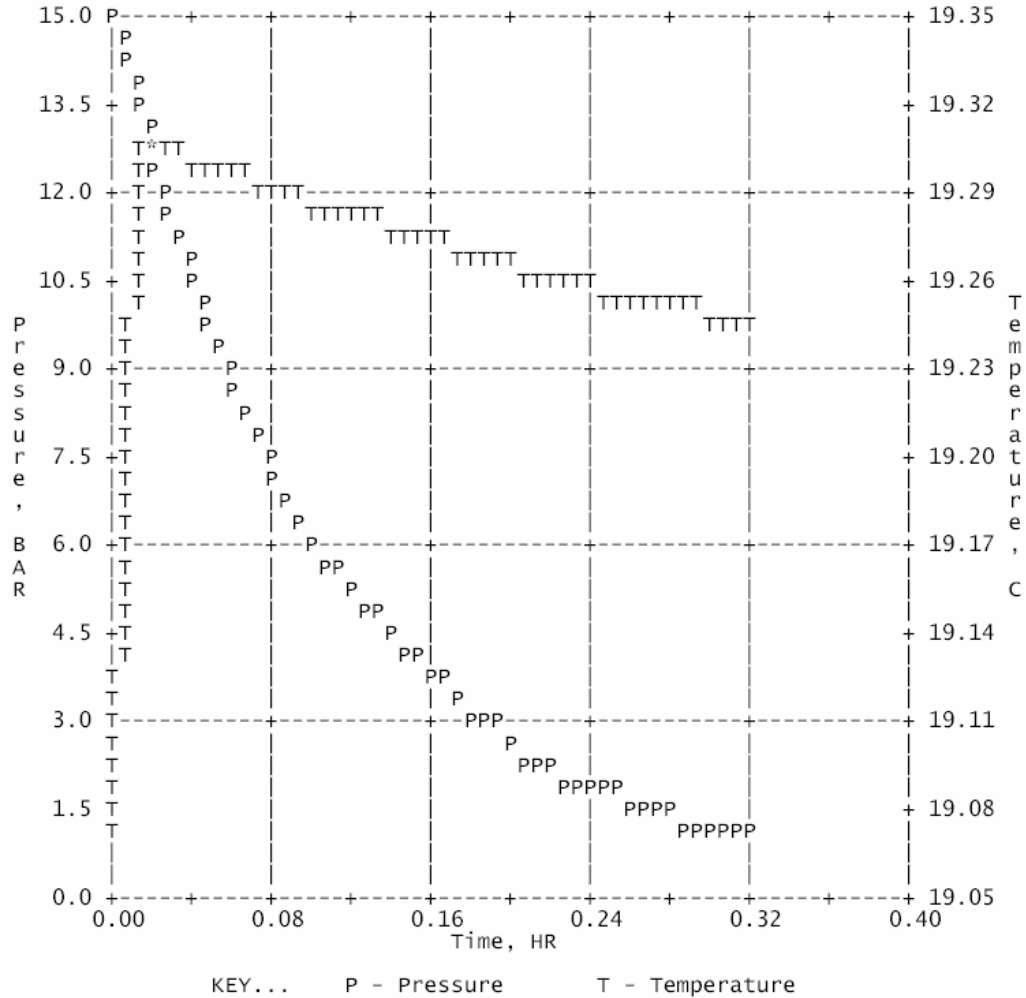
\*\*\* DEPRESSURING SUMMARY-COLD CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	15.000	19.1	2174.808	99.319
1.0E-02	13.705	19.3	2073.828	99.660
2.0E-02	12.500	19.3	1880.846	100.317
3.0E-02	11.410	19.3	1706.688	100.869
4.0E-02	10.421	19.3	1550.874	101.349
5.0E-02	9.524	19.3	1411.054	101.769
6.0E-02	8.708	19.3	1285.265	102.136
7.0E-02	7.967	19.3	1171.850	102.456
8.0E-02	7.293	19.3	1069.483	102.736
9.0E-02	6.678	19.3	976.854	102.979
1.0E-01	6.118	19.3	892.833	103.190
0.110	5.607	19.3	816.609	103.373
0.120	5.140	19.3	747.381	103.530
0.130	4.714	19.3	684.445	103.663
0.140	4.325	19.3	627.178	103.775
0.150	3.970	19.3	575.027	103.868
0.160	3.645	19.3	527.500	103.943
0.170	3.348	19.3	484.158	104.002
0.180	3.077	19.3	444.607	104.047
0.190	2.828	19.3	408.496	104.078
0.200	2.601	19.3	375.507	104.097
0.210	2.393	19.3	345.355	104.105
0.220	2.202	19.3	317.783	104.102
0.230	2.027	19.3	292.558	104.090
0.240	1.867	19.3	269.471	104.069
0.250	1.721	19.3	248.331	104.040
0.260	1.587	19.3	228.966	104.004
0.270	1.463	19.3	211.212	103.962
0.280	1.350	19.3	194.943	103.913
0.290	1.246	19.2	180.020	103.858
0.300	1.151	19.2	166.323	103.799
0.310	1.064	19.2	153.771	103.735
0.320	0.984	19.2	142.237	103.668

UNIT 4 SOLVED - 'BDV-0181-C'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

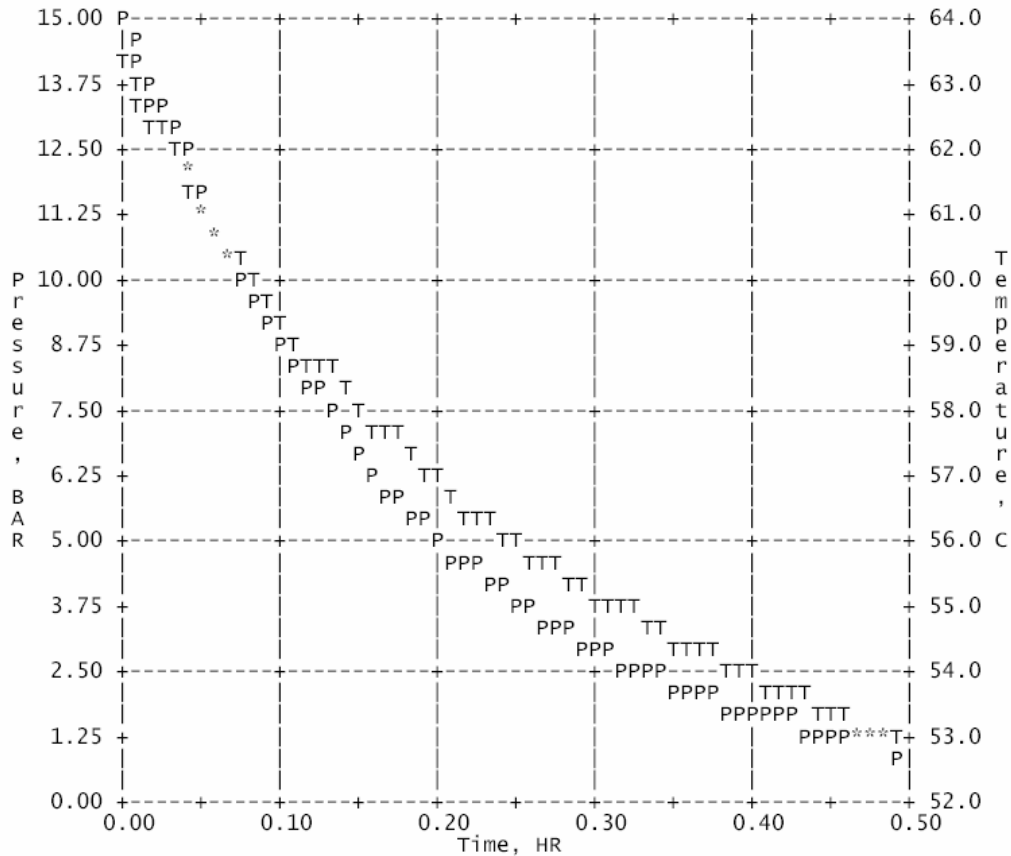
\*\*\* DEPRESSURING SUMMARY-SPURIOUS CASE

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	15.000	63.2	1959.264	110.245
1.0E-02	14.216	62.7	1906.592	110.332
2.0E-02	13.475	62.3	1804.131	110.511
3.0E-02	12.766	61.9	1706.955	110.684
4.0E-02	12.092	61.5	1614.656	110.842
5.0E-02	11.451	61.1	1527.182	110.994
6.0E-02	10.843	60.7	1444.296	111.139
7.0E-02	10.266	60.4	1365.778	111.279
8.0E-02	9.718	60.0	1291.414	111.412
9.0E-02	9.198	59.7	1221.001	111.540
1.0E-01	8.705	59.4	1154.342	111.663
0.110	8.237	59.1	1091.249	111.782
0.120	7.794	58.8	1031.542	111.896
0.130	7.374	58.5	975.051	112.005
0.140	6.976	58.2	921.610	112.112
0.150	6.599	58.0	871.063	112.214
0.160	6.243	57.7	823.261	112.314
0.170	5.905	57.5	778.060	112.411
0.180	5.585	57.3	735.327	112.505
0.190	5.283	57.1	694.930	112.597
0.200	4.996	56.8	656.746	112.687
0.210	4.725	56.6	620.660	112.775
0.220	4.469	56.5	586.558	112.862
0.230	4.227	56.3	554.336	112.948
0.240	3.998	56.1	523.893	113.034
0.250	3.781	55.9	495.132	113.118
0.260	3.576	55.7	467.964	113.203
0.270	3.383	55.6	442.302	113.287
0.280	3.200	55.4	418.065	113.372
0.290	3.027	55.3	395.175	113.458
0.300	2.864	55.1	373.558	113.544
0.310	2.710	55.0	353.146	113.632
0.320	2.564	54.8	333.872	113.721
0.330	2.426	54.7	315.674	113.812
0.340	2.296	54.6	298.492	113.904
0.350	2.173	54.4	282.265	113.999
0.360	2.057	54.3	266.949	114.097
0.370	1.948	54.2	252.499	114.197
0.380	1.844	54.1	238.849	114.301
0.390	1.746	54.0	225.958	114.408
0.400	1.654	53.9	213.810	114.519
0.410	1.567	53.7	202.338	114.634
0.420	1.485	53.6	191.493	114.754
0.430	1.407	53.5	181.264	114.878
0.440	1.334	53.4	171.617	115.007
0.450	1.265	53.3	162.509	115.141
0.460	1.200	53.2	153.912	115.281
0.470	1.138	53.1	145.798	115.428
0.480	1.080	53.1	138.147	115.580
0.490	1.025	53.0	130.928	115.739
0.495	0.999	52.9	125.740	115.864

UNIT 5 SOLVED - 'BDV-0181-S'

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



## 5.15 UNIT 147

### 5.15.1 BDV 0123

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
LV 0121	E-104		LIQUID	34600	553	0	-	1	0
E-104	SDV 0149		VAPOR	0	-	34600	2.6	0	1
E-104					553		2.6		
<b>TOTAL</b>									

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
LV 0121	E-104	8					1	1		1
E-104	SDV 0149	18					15	65		13
E-104									2.98	1.25
<b>TOTAL</b>									2.98	15.25

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
LV 0121	E-104	1						1
E-104	SDV 0149	13.2						0
E-104		4.2						10.5
<b>TOTAL</b>		18.4						11.5

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

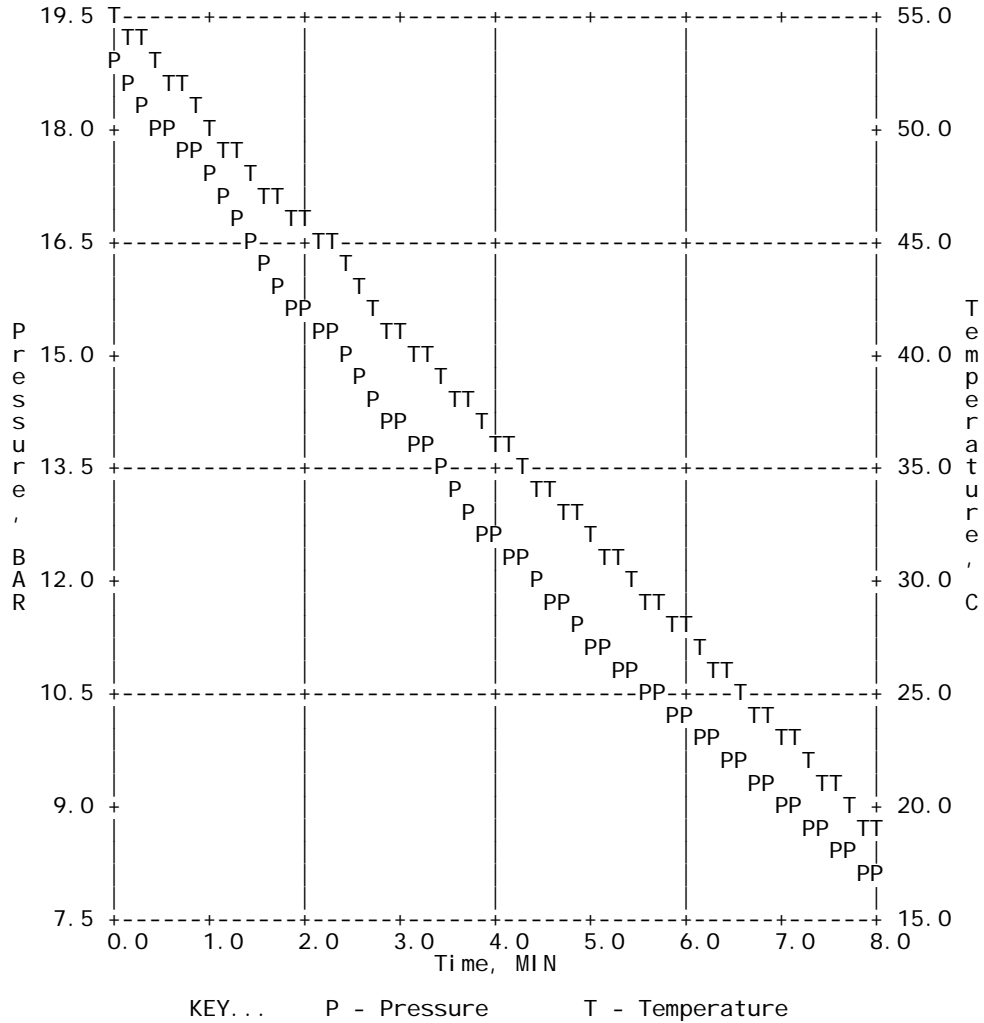
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.8	9765.688	222.272
8.0E-03	18.129	52.6	9523.575	222.697
1.6E-02	17.293	50.4	9051.850	223.532
2.4E-02	16.475	48.2	8599.788	224.297
3.2E-02	15.668	46.0	8160.085	225.006
4.0E-02	14.877	43.7	7731.958	225.661
4.8E-02	14.107	41.4	7317.288	226.260
5.7E-02	13.352	39.0	6915.719	226.804
6.5E-02	12.624	36.6	6528.373	227.292
7.4E-02	11.911	34.2	6154.490	227.724
8.3E-02	11.221	31.8	5792.920	228.104
9.2E-02	10.552	29.3	5444.719	228.429
0.102	9.905	26.8	5109.382	228.701
0.111	9.280	24.3	4787.125	228.920
0.121	8.678	21.7	4477.778	229.085
0.131	8.099	19.1	4181.355	229.197
0.132	8.042	18.9	4022.066	229.244
0.133	7.987	18.6	3993.895	229.249
UNIT	1	SOLVED	- '147-BDV-0123-FI R'	





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

UNIT 1, 'BDV-0123-FIR', '147-BDV-0123 FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

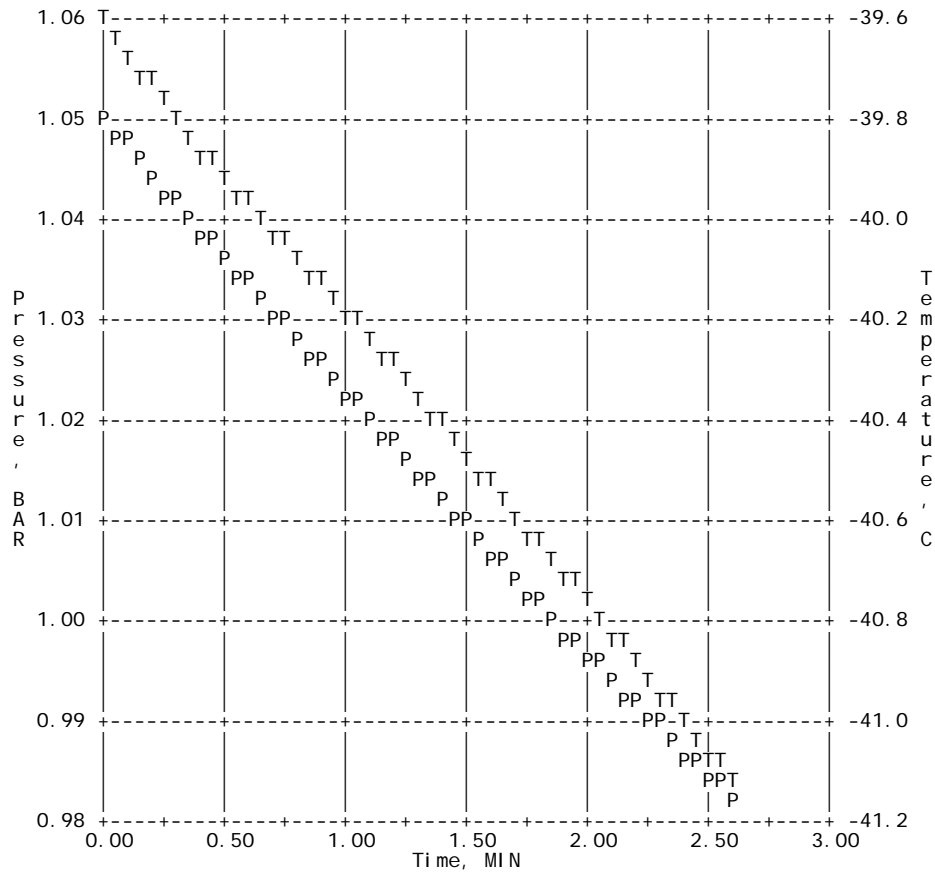
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	1.050	-39.6	547.147	219.239
6.2E-03	1.040	-39.8	544.631	219.204
1.9E-02	1.020	-40.3	537.193	219.098
3.1E-02	1.001	-40.7	527.297	218.954
4.3E-02	0.982	-41.1	517.498	218.809
UNIT	4	SOLVED	-	'147-BDV-0123-COL'



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 4, 'BDV-0123-COL', '147-BDV-0123 COLD' (Cont)

Pressure and Temperature Profiles



KEY... P - Pressure T - Temperature



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.15.2 BDV 0133

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
LV 0133	E-103		LIQUID	144200	503.7	0	-	1	0
E-103	LV 0138		LIQUID	83200	503.7	0	-	1	0
Shell outlet(E-103)	SDV 0171A		VAPOR	0	-	46378	17.8	0	1
SDV 0134	Shell outlet(E-103)		VAPOR	0	-	31800	17.8	0	1
E-103					503.7		17.8		
		<b>TOTAL</b>							

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
LV 0133	E-103	12					1	1	0.1	
E-103	LV 0138	8					1	1	0.1	
Shell outlet(E-103)	SDV 0171	14					10	15	0	2.5
SDV 0134	Shell outlet(E-103)	10					10	20	0	1.4
E-103									11.4	10.5
		<b>TOTAL</b>							11.6	14.4

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
LV 0133	E-103							
E-103	LV 0138							
Shell outlet(E-103)	SDV 0171							
SDV 0134	Shell outlet(E-103)							
E-103								
		<b>TOTAL</b>	26					42.7

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

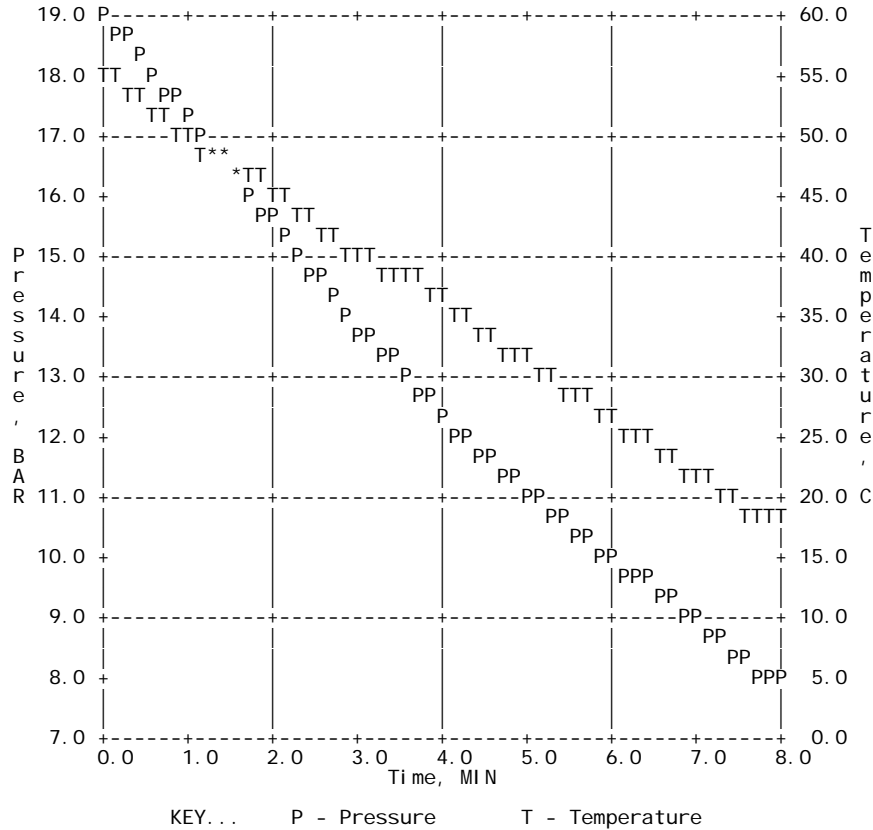
\*\*\* DEPRESSURING SUMMARY



HR	BAR	C	KG/HR	M3/HR
0.000	19.000	54.4	24554.253	559.068
9.4E-03	17.937	51.7	23812.539	560.356
1.9E-02	16.928	49.1	22376.528	562.874
2.8E-02	15.925	46.3	21000.505	565.151
3.8E-02	14.949	43.5	19662.651	567.234
4.8E-02	13.992	40.6	18370.627	569.109
5.8E-02	13.059	37.7	17120.761	570.782
6.9E-02	12.161	34.7	15920.869	572.243
8.0E-02	11.288	31.7	14770.428	573.493
9.2E-02	10.452	28.6	13669.353	574.533
0.104	9.644	25.4	12617.671	575.362
0.116	8.872	22.2	11613.066	575.983
0.129	8.133	18.9	10657.404	576.392
0.131	8.022	18.4	10121.696	576.561
0.133	7.912	17.9	9983.172	576.585
UNIT	3	SOLVED	- 'BDV-0133-FIR'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 3, 'BDV-0133-FIR', '147-BDV-0133 FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

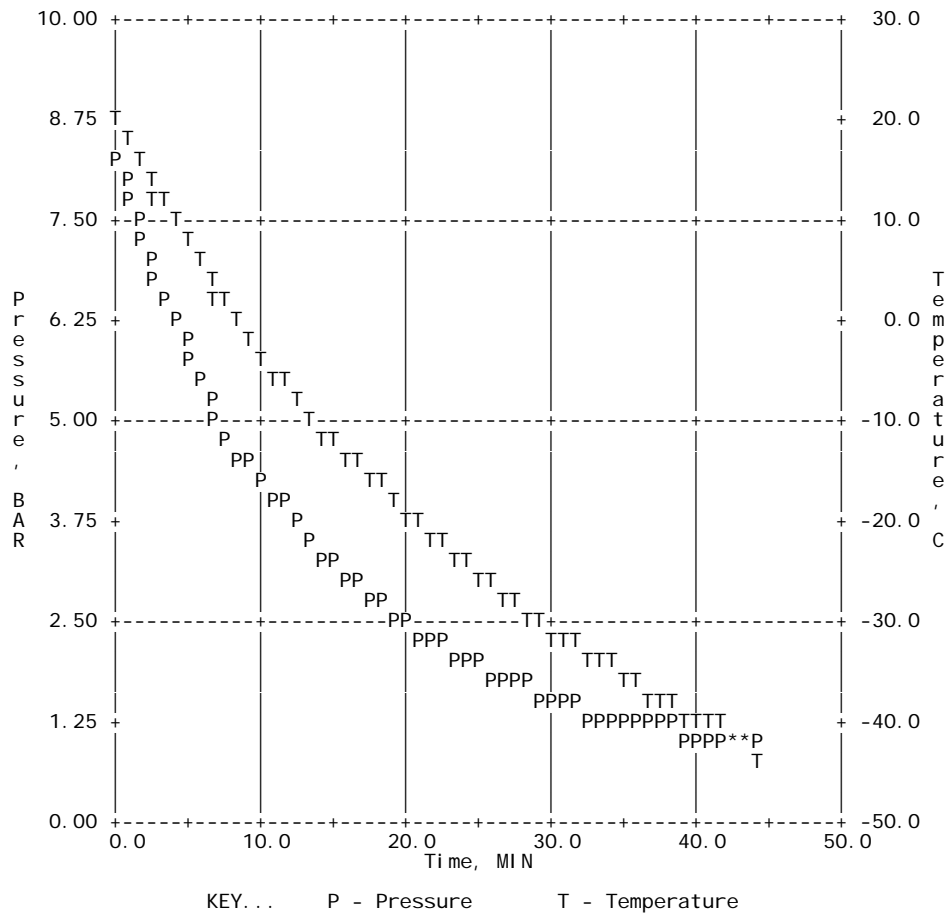
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	8. 200	19. 2	10276. 061	576. 534
2. 2E-02	7. 469	15. 8	9816. 947	576. 584
4. 4E-02	6. 810	12. 4	8946. 107	576. 584
6. 7E-02	6. 198	9. 1	8152. 666	576. 375
9. 1E-02	5. 623	5. 8	7413. 932	575. 967
0. 117	5. 089	2. 5	6725. 780	575. 366
0. 144	4. 589	-8. 9E-01	6084. 814	574. 575
0. 174	4. 125	-4. 3	5487. 995	573. 596
0. 205	3. 694	-7. 7	4934. 134	572. 431
0. 238	3. 298	-11. 1	4422. 304	571. 087
0. 274	2. 934	-14. 5	3952. 101	569. 570
0. 313	2. 598	-17. 9	3519. 147	567. 879
0. 356	2. 293	-21. 4	3121. 672	566. 015
0. 401	2. 017	-24. 8	2760. 617	563. 997
0. 451	1. 765	-28. 2	2432. 014	561. 820
0. 506	1. 539	-31. 7	2133. 263	559. 480
0. 561	1. 350	-34. 9	1873. 414	557. 085
0. 617	1. 192	-37. 8	1655. 200	554. 745
0. 674	1. 057	-40. 6	1470. 586	552. 469
0. 731	0. 943	-43. 1	1313. 329	550. 262
UNIT	6	SOLVED	- ' 147-BDV-0133-COL'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

UNIT 6, 'BDV-0133-COL', '147-BDV-0133 COLD' (Cont)

Pressure and Temperature Profiles







	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.15.3 BDV 0138

FROM	TO	STREAM TAG	PHASE	LIQUID RATE (kg/h)	LIQUID DENSITY (kg/m3)	VAPOR RATE (kg/h)	VAPOR DENSITY (kg/m3)	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
LV 0138	E-102		LIQUID	83200	553	0	-	1	0
Shell outlet (E-102)	LV 0143		LIQUID	12900	553	0	-	1	0
Shell outlet (E-102)	SDV 0161A		VAPOR	0	-	26545	6.7	0	1
Shell outlet (E-102)	SDV 0161B		VAPOR	0	-	26545	6.7	0	1
Shell outlet (E-102)	LV 0121		LIQUID	34600	553	0	-	1	0
SDV 0139	Shell outlet (E-102)		VAPOR	0	-	17400	6.7	0	1
E-102					553		6.7		
		<b>TOTAL</b>							



FROM	TO	DN (inch)	Outside D (mm)	THK (mm)	ID (mm)	ID (inch)	VERT. LENGTH (m)	HORIZ. LENGTH (m)	LIQ VOL (m3)	VAP VOL (m3)
LV 0138	E-102	10							0.2	
Shell outlet (E-102)	LV 0143	8							0.1	
Shell outlet (E-102)	SDV 0161A									
Shell outlet (E-102)	SDV 0161B									
Shell outlet (E-102)	LV 0121									
SDV 0139	Shell outlet (E-102)									
E-102									4.5	
		<b>TOTAL</b>							5.1	20.6

FROM	TO	TOTAL VOLUME (m3)	LIQUID WEIGHT (kg)	VAPOR WEIGHT (kg)	TOTAL AREA (m2)	VERT. WET AREA (*) (m2)	HORIZ. WET AREA (m2)	TOTAL WET AREA (m2)
LV 0138	E-102							
Shell outlet (E-102)	LV 0143							
Shell outlet (E-102)	SDV 0161A							
Shell outlet (E-102)	SDV 0161B							
Shell outlet (E-102)	LV 0121							
SDV 0139	Shell outlet (E-102)							
E-102								
		<b>TOTAL</b>	25.7					25.8

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

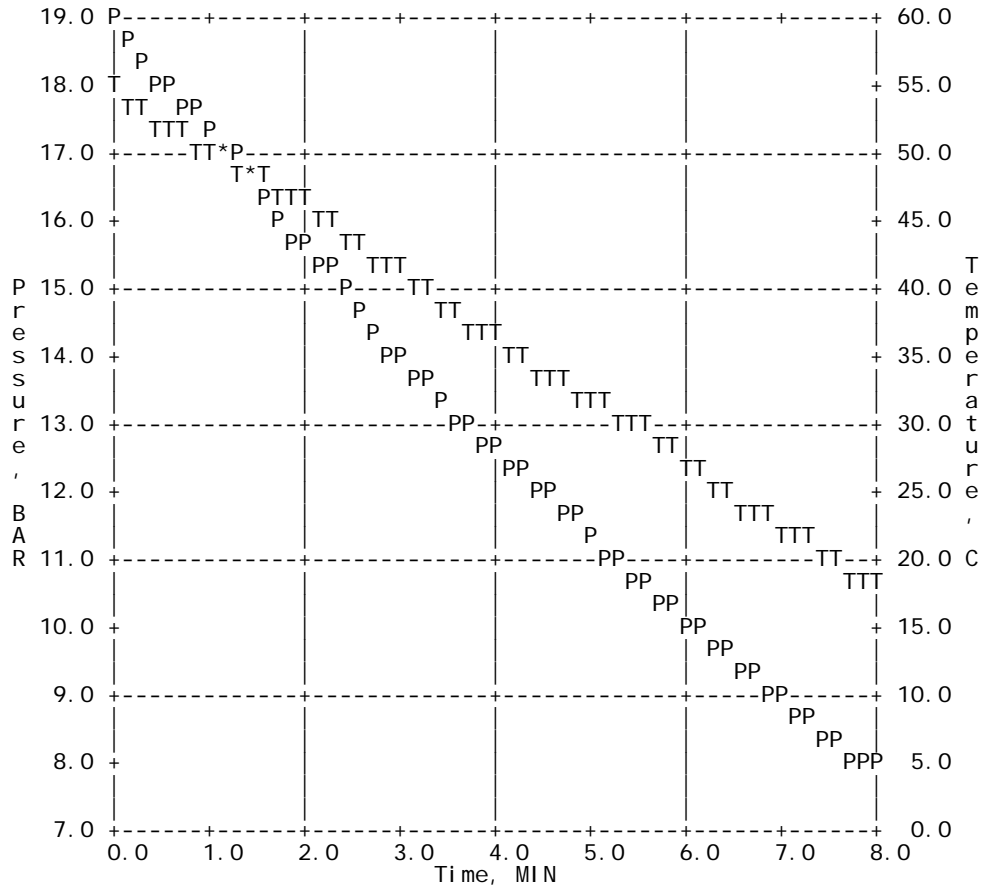
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.6	16063.181	365.655
7.9E-03	18.148	52.4	15673.492	366.340
1.6E-02	17.323	50.3	14911.051	367.690
2.4E-02	16.509	48.1	14173.948	368.939
3.2E-02	15.705	45.9	13453.656	370.102
4.0E-02	14.924	43.6	12754.924	371.175
4.8E-02	14.153	41.3	12076.530	372.158
5.6E-02	13.397	38.9	11414.911	373.057
6.5E-02	12.664	36.6	10774.784	373.866
7.3E-02	11.948	34.1	10155.825	374.585
8.2E-02	11.254	31.7	9557.695	375.216
9.1E-02	10.581	29.2	8981.736	375.757
0.101	9.930	26.7	8426.931	376.209
0.110	9.298	24.1	7892.387	376.573
0.120	8.692	21.5	7378.847	376.849
0.130	8.108	18.9	6887.292	377.036
0.132	8.016	18.5	6608.717	377.117
0.133	7.922	18.1	6532.287	377.130
UNIT	2	SOLVED	- '147-BDV-0138-FIR'	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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UNIT 2, 'BDV-0138-FIR', '147-BDV-0138 FIRE' (Cont)

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

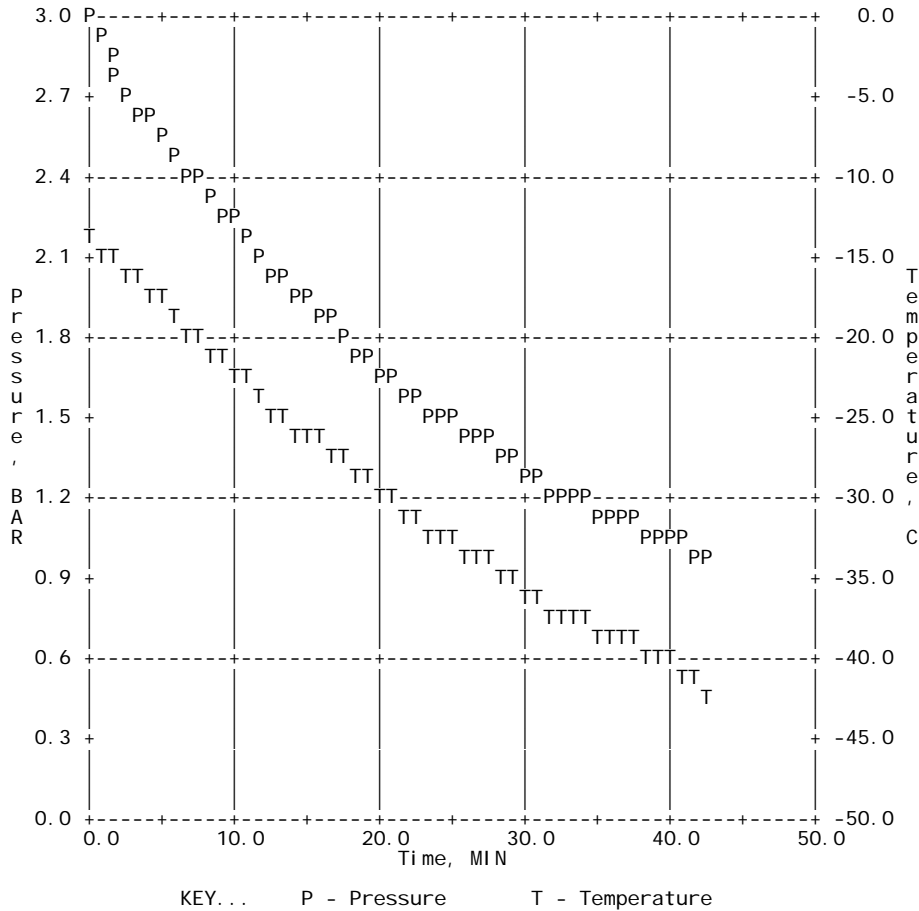
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	3.010	-13.8	2499.466	372.279
4.8E-02	2.733	-16.6	2387.412	371.844
9.5E-02	2.499	-19.1	2180.104	370.940
0.143	2.288	-21.5	1999.402	370.040
0.191	2.100	-23.8	1837.317	369.128
0.240	1.930	-26.0	1691.780	368.209
0.289	1.779	-28.1	1561.278	367.291
0.340	1.643	-30.1	1443.954	366.377
0.390	1.521	-32.0	1338.058	365.469
0.442	1.409	-33.9	1242.286	364.569
0.493	1.310	-35.6	1155.678	363.681
0.546	1.218	-37.4	1077.064	362.805
0.598	1.137	-39.0	1005.958	361.946
0.651	1.063	-40.5	941.723	361.109
0.705	0.995	-42.0	882.798	360.284
UNIT	5	SOLVED	- 'BDV-0138-COL'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 5, 'BDV-0138-COL', '147-BDV-0138 COLD' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.15.4 BDV 0143

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
LV 0143	E-101		LIQUID	12900	553	0	-	1	0
Shell outlet (E-101)	SDV 0151A		VAPOR	0	-	35985	2.6	0	1
SDV 0144	Shell outlet (E-101)		VAPOR	0	-	24450	2.6	0	1
SDV 0149	Shell outlet (E-101)		VAPOR	0	-	34600	2.6	0	1
Shell outlet (E-101)	SDV 0151B		VAPOR	0	-	35985	2.6	0	1
E-101					553		2.6		
<b>TOTAL</b>									



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
LV 0143	E-101	6								
Shell outlet (E-101)	SDV 0151A	28								
SDV 0144	Shell outlet (E-101)	12								
SDV 0149	Shell outlet (E-101)	12								
Shell outlet (E-103)	SDV 0151B	28								
E-101										
<b>TOTAL</b>									4.98	11.67

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
LV 0143	E-101							
Shell outlet (E-101)	SDV 0151A							
SDV 0144	Shell outlet (E-101)							
SDV 0149	Shell outlet (E-101)							
Shell outlet (E-103)	SDV 0151B							
E-101								
<b>TOTAL</b>		16.65						16.9

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

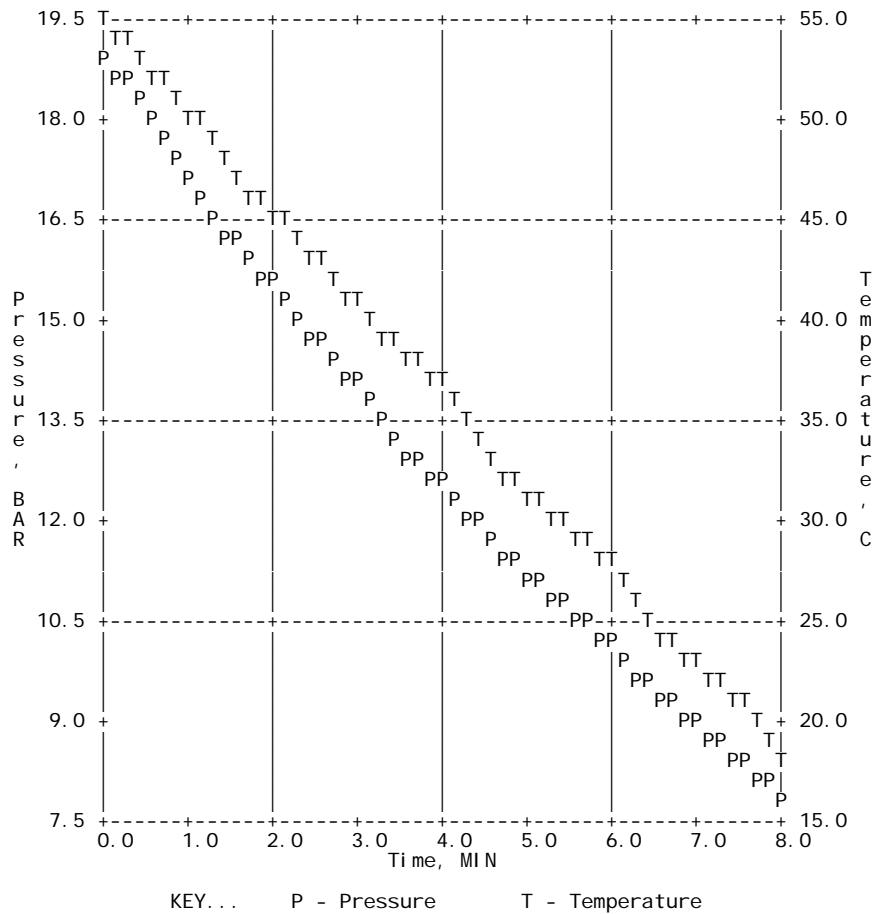
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.8	14590.747	332.092
7.4E-03	18.178	52.7	14249.249	332.694
1.5E-02	17.390	50.7	13584.020	333.874
2.2E-02	16.612	48.6	12943.729	334.962
3.0E-02	15.845	46.5	12318.275	335.979
3.7E-02	15.098	44.3	11710.963	336.920
4.5E-02	14.379	42.2	11127.630	337.778
5.2E-02	13.674	40.0	10565.598	338.557
6.0E-02	12.987	37.9	10020.284	339.266
6.8E-02	12.318	35.6	9492.825	339.903
7.6E-02	11.669	33.4	8983.392	340.470
8.4E-02	11.041	31.2	8492.878	340.965
9.3E-02	10.435	28.9	8021.463	341.391
0.101	9.852	26.6	7569.577	341.747
0.110	9.290	24.4	7136.578	342.035
0.119	8.753	22.1	6722.343	342.258
0.128	8.235	19.8	6326.119	342.416
0.131	8.084	19.1	6075.456	342.493
0.133	7.935	18.4	5963.386	342.516
UNI T	7	SOLVED	- '147-BDV-0143-FI R'	



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
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UNIT 7, 'BDV-0143-FIR', '147-BDV-0143 FIRE' (Cont)

Pressure and Temperature Profiles





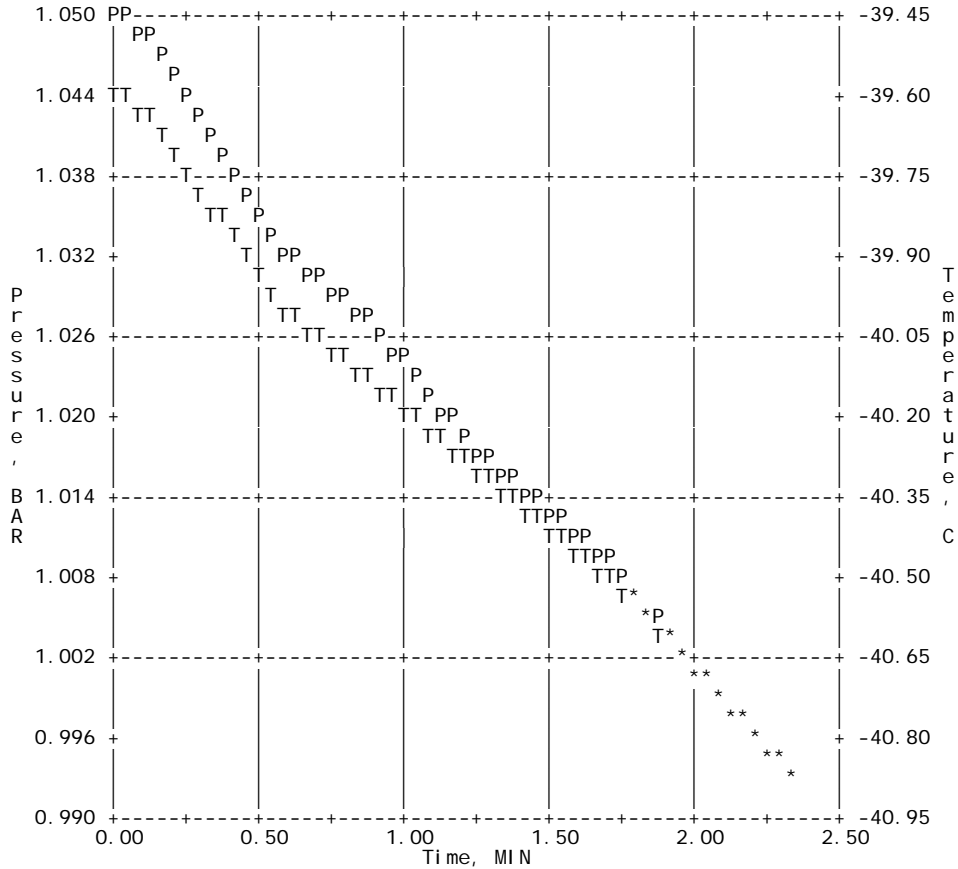
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	1.050	-39.6	817.483	327.562
3.0E-03	1.046	-39.7	816.125	327.543
9.0E-03	1.034	-40.0	810.044	327.457
1.5E-02	1.025	-40.1	802.133	327.343
2.1E-02	1.018	-40.3	796.050	327.255
2.7E-02	1.011	-40.5	790.649	327.177
3.3E-02	1.003	-40.7	784.965	327.093
3.9E-02	0.993	-40.9	778.277	326.994
UNIT    8	SOLVED	- '147-BDV-0143-COL'		

UNIT 8, 'BDV-0143-COL', '147-BDV-0143 COLD' (Cont)

Pressure and Temperature Profiles



KEY... P - Pressure    T - Temperature



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.15.5 BDV 0153A/B



FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
SDV 0151A/B	D-101A/B		VAPOR	0	0	35985	2.57	0	1
D-101A/B	K-101A/B		VAPOR	0	0	35985	2.57	0	1
D-101A/B									
		<b>TOTAL</b>							

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
SDV 0151A/B	D-101A/B									
D-101A/B	K-101A/B									
D-101A/B										
		<b>TOTAL</b>							6.4	25.7

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
SDV 0151A/B	D-101A/B							
D-101A/B	K-101A/B							
D-101A/B								
		<b>TOTAL</b>	32.1					26.3

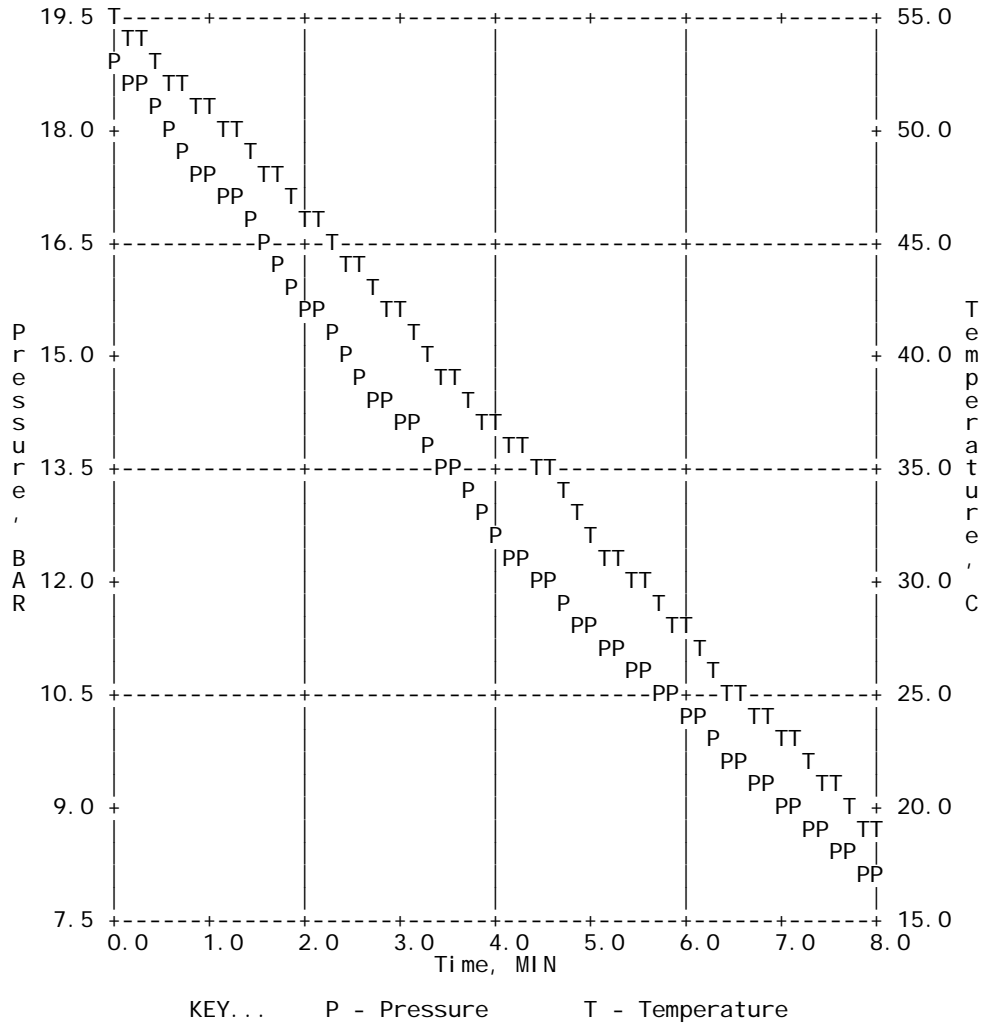
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.8	20658.181	470.190
7.7E-03	18.221	52.8	20200.210	470.999
1.5E-02	17.462	50.9	19299.905	472.598
2.3E-02	16.704	48.9	18420.951	474.097
3.0E-02	15.962	46.8	17560.177	475.505
3.8E-02	15.220	44.7	16715.898	476.822
4.6E-02	14.490	42.5	15885.769	478.052
5.4E-02	13.770	40.3	15074.949	479.187
6.2E-02	13.070	38.1	14286.874	480.221
7.0E-02	12.382	35.9	13521.558	481.154
7.8E-02	11.712	33.6	12777.781	481.989
8.7E-02	11.058	31.2	12057.294	482.721
9.5E-02	10.423	28.8	11360.122	483.352
0.104	9.810	26.5	10688.673	483.880
0.113	9.215	24.0	10041.558	484.305
0.122	8.642	21.6	9418.492	484.628
0.132	8.085	19.1	8818.221	484.848
0.132	8.035	18.8	8496.440	484.941
0.133	7.986	18.6	8444.190	484.950
UNIT	1	SOLVED	- '147-BDV-0153-FIR'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, 'BDV-0153-FIR', '147-BDV-0153 AB FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

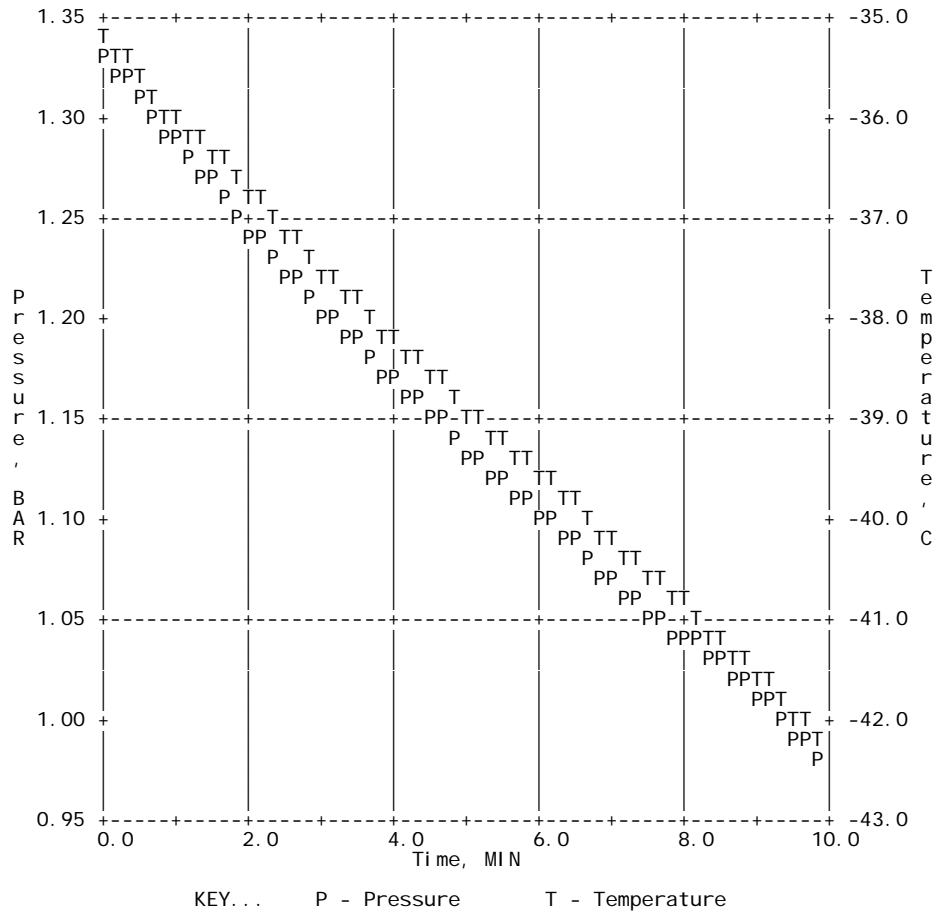
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ----	
			KG/HR	M3/HR
0.000	1.325	-35.3	1449.817	467.283
1.0E-02	1.300	-35.7	1436.659	467.137
2.0E-02	1.275	-36.2	1410.343	466.841
3.0E-02	1.251	-36.7	1384.283	466.541
4.0E-02	1.228	-37.1	1359.082	466.246
5.0E-02	1.205	-37.5	1334.494	465.951
6.0E-02	1.182	-38.0	1310.233	465.655
7.0E-02	1.161	-38.4	1287.273	465.368
8.0E-02	1.139	-38.9	1264.239	465.075
9.0E-02	1.119	-39.3	1241.737	464.782
1.0E-01	1.100	-39.6	1221.290	464.511
0.110	1.081	-40.0	1200.973	464.237
0.120	1.063	-40.4	1180.921	463.961
0.130	1.044	-40.8	1161.246	463.685
0.135	1.036	-41.0	1146.844	463.480
0.145	1.018	-41.4	1132.944	463.279
0.155	1.000	-41.8	1114.233	463.005
0.165	0.983	-42.2	1095.886	462.731
UNIT	2	SOLVED	- '147-BDV-0153-COL'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 2, 'BDV-0153-COL', '147-BDV-0153 AB COLD' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



### 5.15.6 BDV 0163A/B

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
SDV 0161A/B	D-102A/B		VAPOR	0	0	26545	6.665	0	1
D-102A/B	K-101A/B		VAPOR	0	0	26545	6.665	0	1
D-102A/B									
		<b>TOTAL</b>							

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
SDV 0161A/B	D-102A/B									
D-102A/B	K-101A/B									
D-102A/B										
		<b>TOTAL</b>							2.9	9.8



FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
SDV 0161A/B	D-102A/B							
D-102A/B	K-101A/B							
D-102A/B								
		<b>TOTAL</b>	12.7					15.1



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

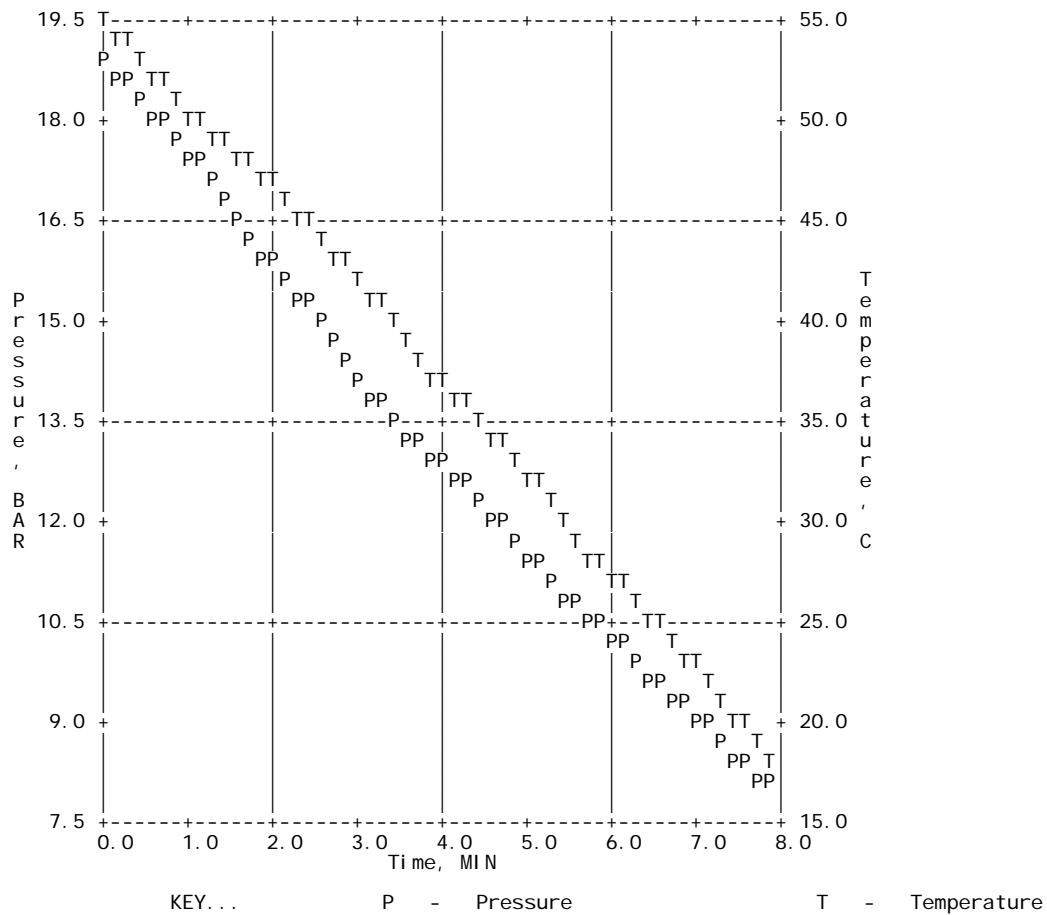
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.6	9389.455	213.737
7.3E-03	18.325	52.9	9208.908	214.058
1.4E-02	17.658	51.2	8851.327	214.695
2.2E-02	16.985	49.4	8497.531	215.305
2.9E-02	16.293	47.5	8140.434	215.897
3.6E-02	15.604	45.6	7782.082	216.468
4.3E-02	14.920	43.6	7428.535	217.006
5.0E-02	14.243	41.6	7080.737	217.509
5.8E-02	13.570	39.5	6738.521	217.978
6.5E-02	12.908	37.4	6402.374	218.410
7.3E-02	12.258	35.2	6074.178	218.802
8.0E-02	11.620	33.0	5754.180	219.155
8.8E-02	10.995	30.8	5442.194	219.467
9.6E-02	10.384	28.5	5138.345	219.738
0.104	9.796	26.2	4845.098	219.965
0.112	9.219	23.8	4561.610	220.150
0.120	8.660	21.4	4286.273	220.292
0.129	8.120	19.0	4021.090	220.391
0.131	7.993	18.4	3860.409	220.436
UNIT	4	SOLVED	- 'BDV-0163-FIR'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 4, 'BDV-0163-FIR', '147-BDV-0163 AB FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

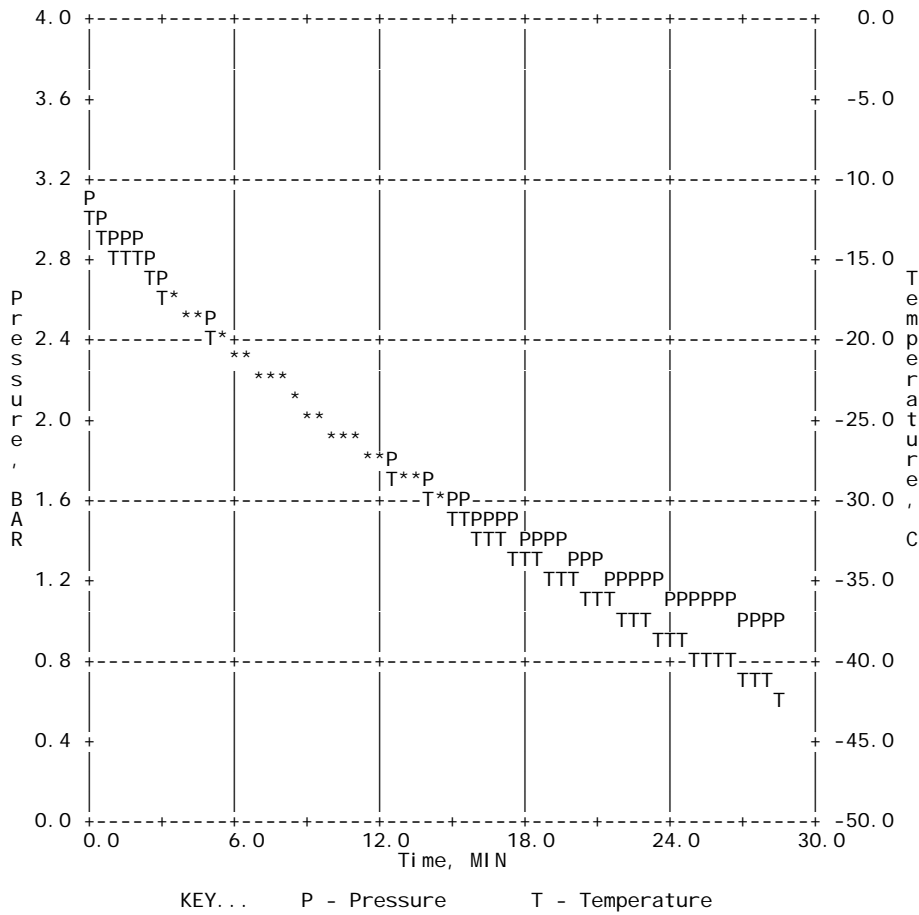
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	3.131	-12.7	1518.345	217.818
1.0E-02	3.034	-13.6	1495.344	217.735
2.0E-02	2.941	-14.5	1450.435	217.568
3.0E-02	2.853	-15.3	1407.718	217.401
4.0E-02	2.770	-16.2	1367.226	217.234
5.0E-02	2.690	-17.0	1328.446	217.068
6.0E-02	2.613	-17.8	1291.135	216.901
7.0E-02	2.539	-18.6	1255.284	216.733
8.0E-02	2.466	-19.4	1220.490	216.563
9.0E-02	2.398	-20.2	1187.130	216.393
1.0E-01	2.333	-20.9	1155.548	216.226
0.110	2.270	-21.7	1125.252	216.059
0.120	2.210	-22.4	1096.096	215.893
0.130	2.153	-23.1	1068.227	215.728
0.140	2.096	-23.8	1040.911	215.561
0.150	2.042	-24.5	1014.587	215.394
0.160	1.990	-25.2	989.572	215.230
0.170	1.939	-25.9	965.015	215.064
0.180	1.890	-26.5	940.991	214.895
0.190	1.842	-27.2	917.759	214.727
0.200	1.796	-27.8	895.440	214.560
0.210	1.752	-28.5	873.936	214.394
0.220	1.709	-29.1	853.200	214.230
0.230	1.669	-29.7	833.515	214.068
0.240	1.629	-30.3	814.417	213.907
0.250	1.592	-30.9	795.982	213.747
0.260	1.555	-31.5	778.231	213.589
0.270	1.519	-32.1	760.658	213.428
0.280	1.484	-32.6	743.720	213.268
0.290	1.451	-33.2	727.373	213.110
0.300	1.417	-33.7	711.274	212.950
0.310	1.388	-34.2	696.302	212.797
0.320	1.358	-34.8	682.057	212.649
0.330	1.328	-35.3	667.671	212.494
0.340	1.300	-35.8	653.660	212.341
0.350	1.272	-36.3	640.108	212.188
0.360	1.246	-36.8	627.095	212.038
0.370	1.220	-37.3	614.483	211.889
0.380	1.196	-37.8	602.588	211.746
0.390	1.172	-38.3	591.002	211.603
0.400	1.148	-38.7	579.373	211.456
0.410	1.125	-39.2	568.050	211.310
0.420	1.103	-39.7	557.047	211.165
0.430	1.081	-40.1	546.482	211.022
0.440	1.060	-40.6	536.217	210.881
0.450	1.040	-41.0	526.210	210.740
0.455	1.030	-41.2	518.888	210.635
0.465	1.012	-41.6	512.111	210.537
0.475	0.993	-42.0	503.121	210.404
UNIT	5	SOLVED	- '147-BDV-0163-COL'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 5, 'BDV-0163-COL', '147-BDV-0163 AB COLD' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.15.7 BDV 0173A/B

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
SDV 0171A/B	D-103A/B		VAPOR	0	0	46378	17.8	0	1
D-103A/B	K-101A/B		VAPOR	0	0	46378	17.8	0	1
D-103A/B									
		<b>TOTAL</b>							



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
SDV 0171A/B	D-103A/B									
D-103A/B	K-101A/B									
D-103A/B										
		<b>TOTAL</b>							3.28	10.76

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
SDV 0171A/B	D-103A/B							
D-103A/B	K-101A/B							
D-103A/B								
		<b>TOTAL</b>	14.04					15.82

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

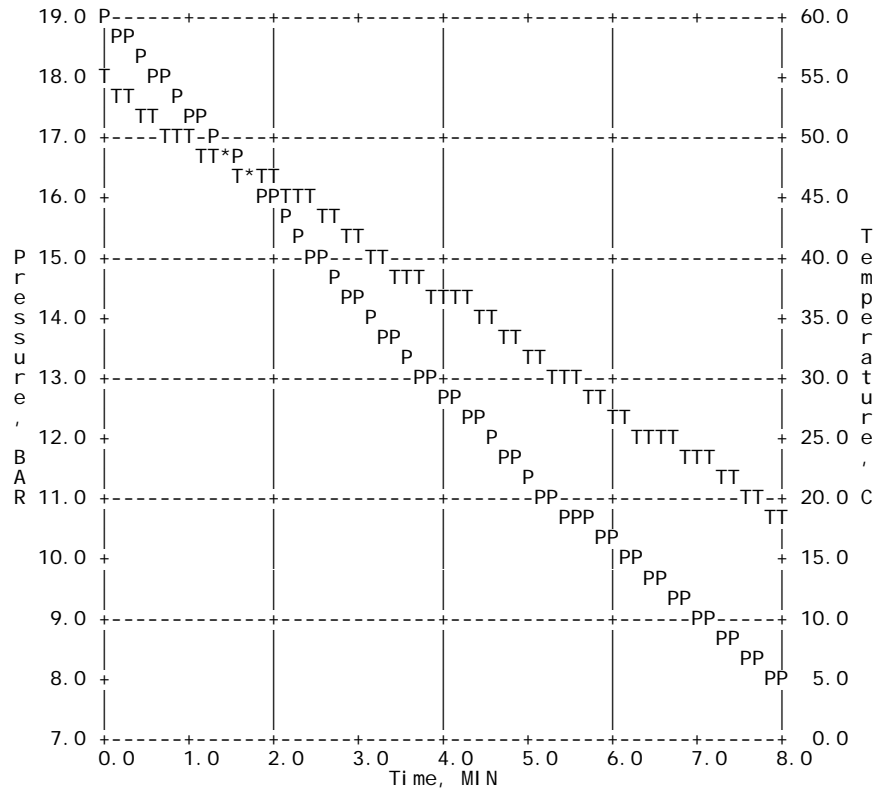
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	19.000	54.2	10253.501	233.528
7.5E-03	18.297	52.5	10048.183	233.891
1.5E-02	17.604	50.7	9642.451	234.612
2.2E-02	16.898	48.8	9239.484	235.303
3.0E-02	16.198	46.9	8837.920	235.965
3.7E-02	15.492	44.9	8439.915	236.594
4.5E-02	14.790	42.9	8044.751	237.189
5.2E-02	14.096	40.8	7655.908	237.745
6.0E-02	13.416	38.7	7276.174	238.257
6.7E-02	12.745	36.5	6905.448	238.724
7.5E-02	12.085	34.3	6542.405	239.149
8.3E-02	11.436	32.0	6187.791	239.529
9.1E-02	10.806	29.7	5843.135	239.862
1.0E-01	10.191	27.4	5509.483	240.146
0.108	9.591	25.0	5185.515	240.383
0.117	9.008	22.6	4871.615	240.572
0.126	8.446	20.1	4569.047	240.711
0.133	7.973	18.0	4296.523	240.797
UNIT	7	SOLVED	- 'BDV-0173-FIR'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
<b>Doc. Number : DB-1516-999-P312-212</b>		<b>Rev. : 3    Class: 2</b>

UNIT 7, 'BDV-0173-FIR', '147-BDV-0173 AB FIRE' (Cont)

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.274	19.3	4329.510	240.849
1.0E-02	7.841	17.3	4215.849	240.868
2.0E-02	7.438	15.3	3996.597	240.893
3.0E-02	7.061	13.5	3792.533	240.887
4.0E-02	6.702	11.6	3600.717	240.854
5.0E-02	6.367	9.8	3420.219	240.795
6.0E-02	6.054	8.1	3251.691	240.714
7.0E-02	5.760	6.4	3093.953	240.612
8.0E-02	5.481	4.7	2945.218	240.492
9.0E-02	5.222	3.1	2805.748	240.355
1.0E-01	4.975	1.5	2674.862	240.204
0.110	4.745	-6.0E-02	2551.654	240.039
0.120	4.529	-1.6	2436.426	239.863
0.130	4.326	-3.0	2328.046	239.677
0.140	4.136	-4.4	2226.399	239.482
0.150	3.955	-5.8	2130.614	239.279
0.160	3.784	-7.2	2039.721	239.068
0.170	3.623	-8.5	1954.083	238.851
0.180	3.472	-9.8	1873.569	238.629
0.190	3.329	-11.0	1797.582	238.403
0.200	3.198	-12.2	1726.696	238.176
0.210	3.069	-13.4	1659.631	237.946
0.220	2.948	-14.6	1595.069	237.709
0.230	2.834	-15.7	1534.259	237.471
0.240	2.725	-16.8	1476.572	237.231
0.250	2.620	-17.9	1421.020	236.986
0.260	2.521	-19.0	1368.329	236.739
0.270	2.429	-20.0	1318.898	236.495
0.280	2.340	-21.0	1272.021	236.251
0.290	2.257	-22.0	1227.431	236.006
0.300	2.177	-23.0	1185.127	235.763
0.310	2.102	-23.9	1144.863	235.519
0.320	2.030	-24.8	1106.547	235.276
0.330	1.961	-25.7	1069.875	235.033
0.340	1.895	-26.6	1034.877	234.791
0.350	1.833	-27.5	1001.692	234.551
0.360	1.774	-28.3	970.066	234.313
0.370	1.717	-29.2	939.795	234.075
0.380	1.663	-30.0	910.866	233.839
0.390	1.611	-30.8	883.267	233.605
0.400	1.562	-31.5	856.733	233.371
0.410	1.515	-32.3	831.389	233.139
0.420	1.469	-33.0	807.242	232.911
0.430	1.425	-33.8	783.838	232.681



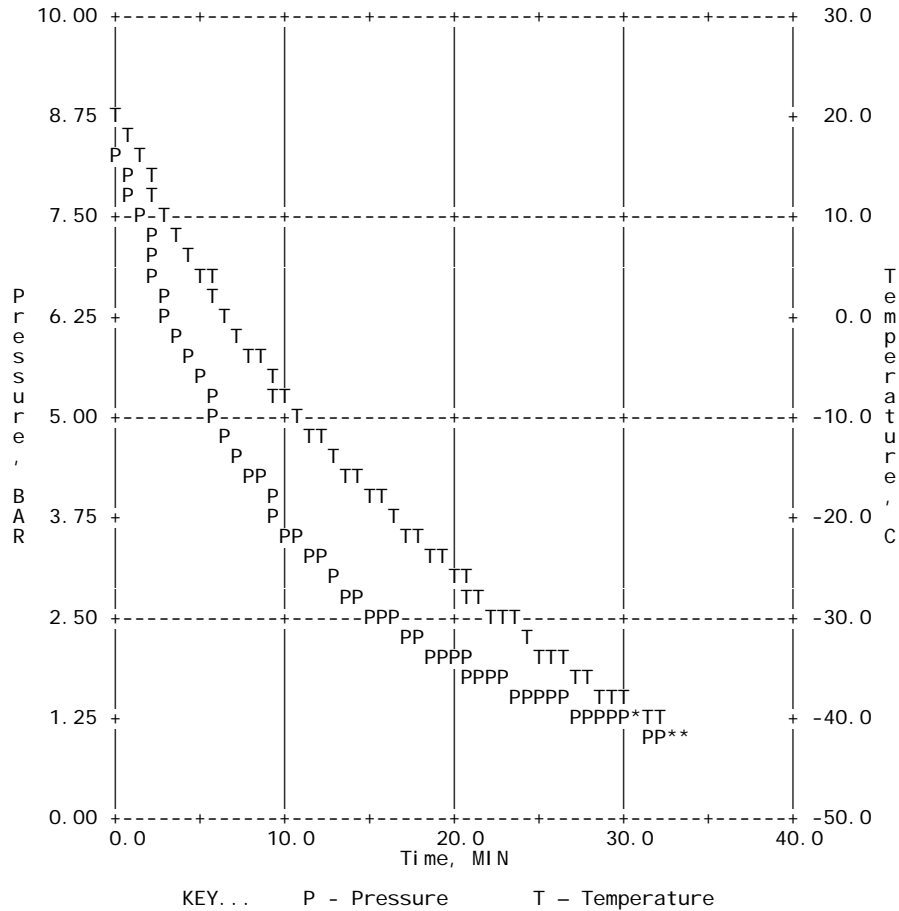
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		

0.440	1.384	-34.5	761.411	232.453
0.450	1.342	-35.2	739.667	232.224
0.460	1.304	-35.9	718.812	231.998
0.470	1.268	-36.6	699.290	231.778
0.480	1.233	-37.2	680.483	231.560
0.490	1.199	-37.9	662.440	231.344
0.500	1.167	-38.5	645.174	231.132
0.510	1.135	-39.1	628.310	230.917
0.520	1.106	-39.8	612.105	230.705
0.530	1.077	-40.4	596.736	230.498
0.540	1.050	-40.9	581.932	230.293
0.545	1.036	-41.2	571.155	230.140
0.555	1.010	-41.8	560.685	229.989
0.565	0.985	-42.4	547.123	229.788
UNIT	8	SOLVED	- 'BDV-0173-COL'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 8, 'BDV-0173-COL', '147-BDV-0173 AB COLD' (Cont)

Pressure and Temperature Profiles




	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.15.8 BDV 0204

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
P-106	D-104		LIQUID					1	0
SDV 0199	A -101		VAPOR			217800	43.7	0	1
A -101	D-104		LIQUID	217800	432			1	0
PV 0202A	D-104		LIQUID		432			1	0
D-104	SDV 202		LIQUID	217800	432			1	0
D-104									
		<b>TOTAL</b>							



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
P-106	D-104									
SDV 0199	A -101									
A -101	D-104									
PV 0202A	D-104									
D-104	SDV 202									
D-104										
		<b>TOTAL</b>							69.32	26.8

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
P-106	D-104							
SDV 0199	A -101							
A -101	D-104							
PV 0202A	D-104							
D-104	SDV 202							
D-104								
		<b>TOTAL</b>	96.12		133.5			

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

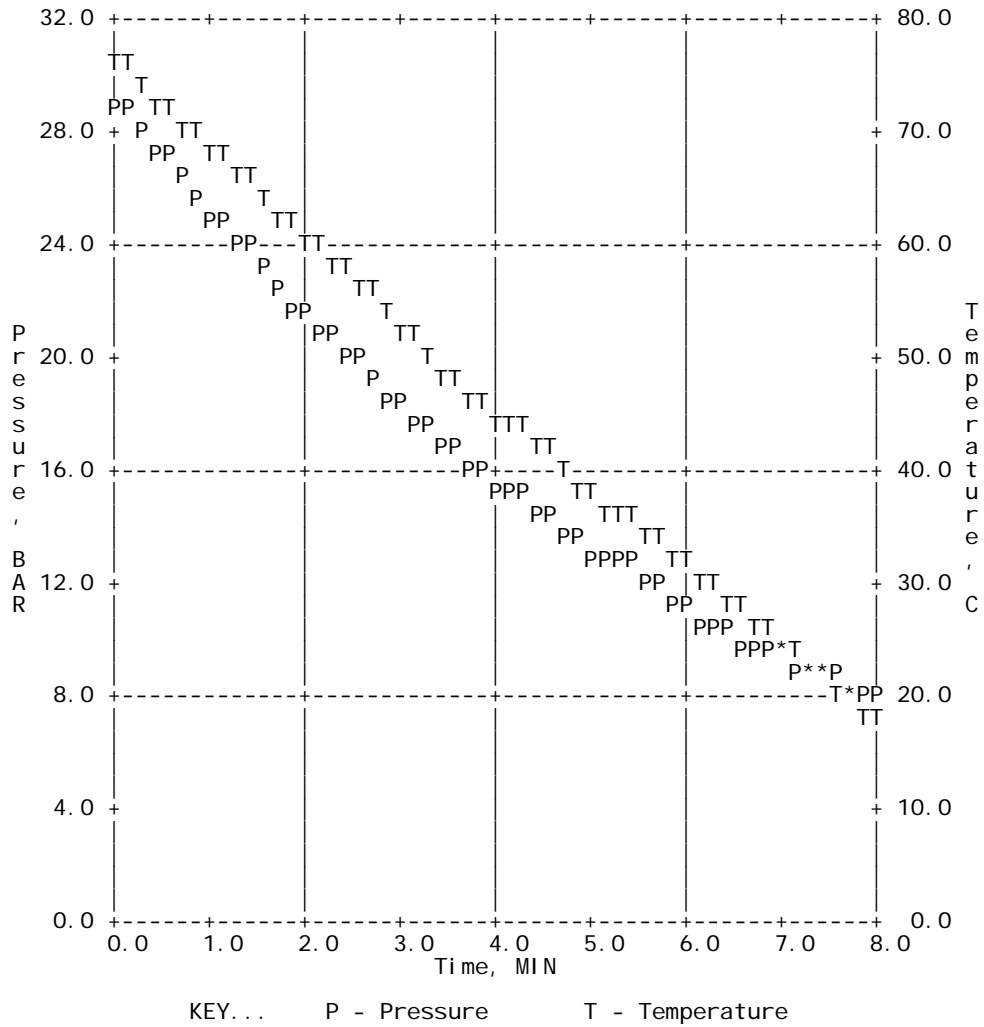
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	75.6	2.068E+05	2714.924
5.8E-03	27.651	73.1	2.009E+05	2729.566
1.2E-02	26.336	70.6	1.895E+05	2758.399
1.7E-02	25.000	67.9	1.784E+05	2784.964
2.3E-02	23.674	65.1	1.677E+05	2809.813
2.9E-02	22.366	62.3	1.573E+05	2832.724
3.6E-02	21.068	59.4	1.473E+05	2853.857
4.2E-02	19.783	56.4	1.376E+05	2873.380
4.9E-02	18.527	53.3	1.283E+05	2891.256
5.6E-02	17.315	50.2	1.193E+05	2907.378
6.3E-02	16.120	46.9	1.108E+05	2921.888
7.0E-02	14.966	43.6	1.025E+05	2934.904
7.8E-02	13.854	40.3	94686.793	2946.321
8.6E-02	12.783	36.9	87221.235	2956.205
9.4E-02	11.751	33.4	80108.101	2964.605
0.103	10.771	29.8	73369.113	2971.516
0.112	9.828	26.2	66979.799	2976.961
0.122	8.931	22.5	60915.855	2980.972
0.132	8.085	18.7	55210.889	2983.523
0.133	8.044	18.5	52315.494	2984.485
0.133	7.999	18.3	52034.182	2984.537
UNIT	10	SOLVED	- '147-BDV-0204-FIR'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 10, 'BDV-0204-FIR', '147-BDV-0204 FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

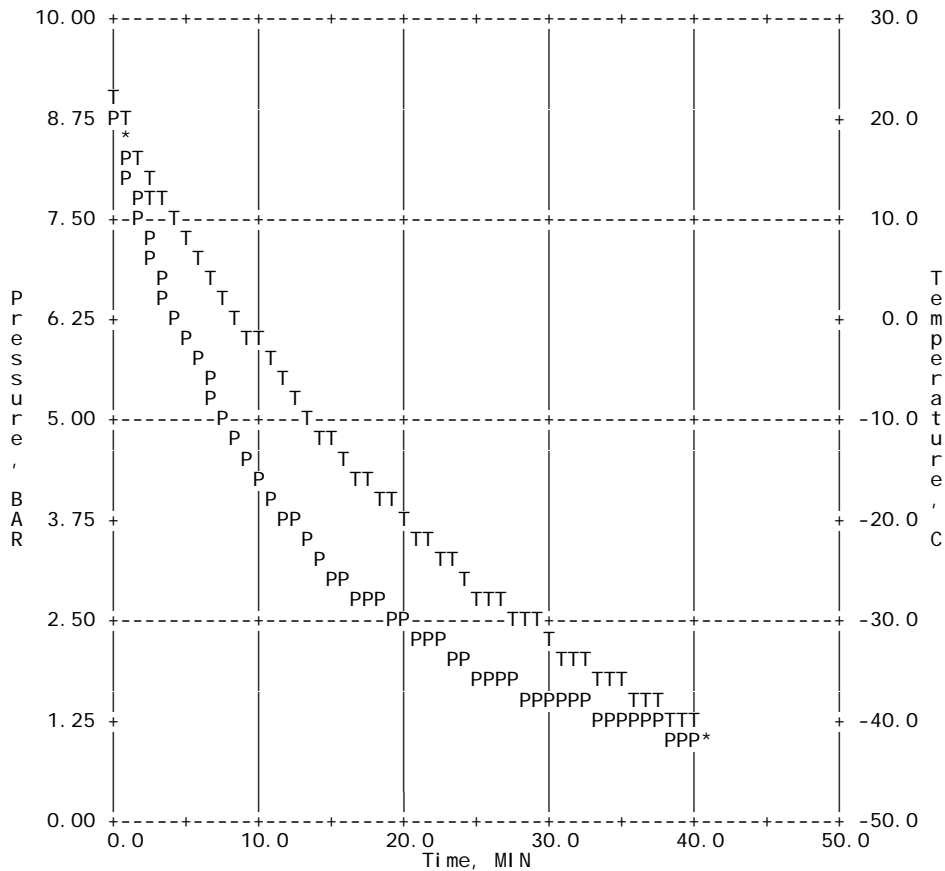
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	8.630	21.0	55992.463	2983.916
9.0E-03	8.263	19.4	54795.958	2984.269
1.8E-02	7.906	17.8	52436.860	2984.857
2.8E-02	7.560	16.1	50151.611	2985.171
3.8E-02	7.220	14.4	47925.254	2985.212
4.8E-02	6.881	12.7	45726.027	2984.973
5.9E-02	6.550	11.0	43561.422	2984.445
7.1E-02	6.228	9.2	41454.220	2983.623
8.2E-02	5.921	7.5	39428.627	2982.519
9.4E-02	5.620	5.7	37474.494	2981.130
0.107	5.331	3.9	35577.885	2979.450
0.119	5.057	2.2	33769.515	2977.512
0.133	4.804	4.9E-01	32079.876	2975.371
0.146	4.551	-1.3	30458.361	2972.985
0.160	4.312	-3.0	28884.065	2970.328
0.174	4.084	-4.7	27387.625	2967.457
0.189	3.873	-6.3	25981.670	2964.419
0.204	3.666	-8.0	24646.142	2961.196
0.219	3.471	-9.6	23357.608	2957.742
0.234	3.291	-11.2	22157.299	2954.185
0.250	3.116	-12.8	21021.444	2950.488
0.266	2.952	-14.4	19933.729	2946.611
0.283	2.796	-15.9	18908.887	2942.626
0.299	2.650	-17.5	17941.571	2938.536
0.316	2.514	-18.9	17036.258	2934.391
0.333	2.385	-20.4	16185.089	2930.182
0.350	2.266	-21.8	15387.266	2925.936
0.368	2.150	-23.2	14629.460	2921.606
0.385	2.043	-24.5	13912.010	2917.210
0.403	1.942	-25.9	13244.159	2912.836
0.421	1.846	-27.2	12609.824	2908.403
0.439	1.757	-28.4	12011.599	2903.949
0.458	1.672	-29.7	11449.442	2899.500
0.477	1.596	-30.9	10926.986	2895.110
0.495	1.519	-32.1	10428.862	2890.682
0.514	1.451	-33.2	9958.437	2886.253
0.534	1.385	-34.3	9524.506	2881.942
0.553	1.324	-35.4	9111.598	2877.619
0.573	1.265	-36.5	8721.251	2873.317
0.592	1.211	-37.5	8352.774	2869.045
0.612	1.159	-38.6	8005.127	2864.813
0.632	1.110	-39.6	7676.446	2860.616
0.652	1.064	-40.5	7367.157	2856.479
0.672	1.021	-41.5	7075.095	2852.389
0.683	1.001	-41.9	6868.540	2849.372
0.703	0.960	-42.8	6669.329	2846.391
UNI T 11	SOLVED	- 'BDV-0204-COL'		



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

UNIT 11, 'BDV-0204-COL', '147-BDV-0204 COLD' (Cont)

Pressure and Temperature Profiles



KEY... P - Pressure      T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

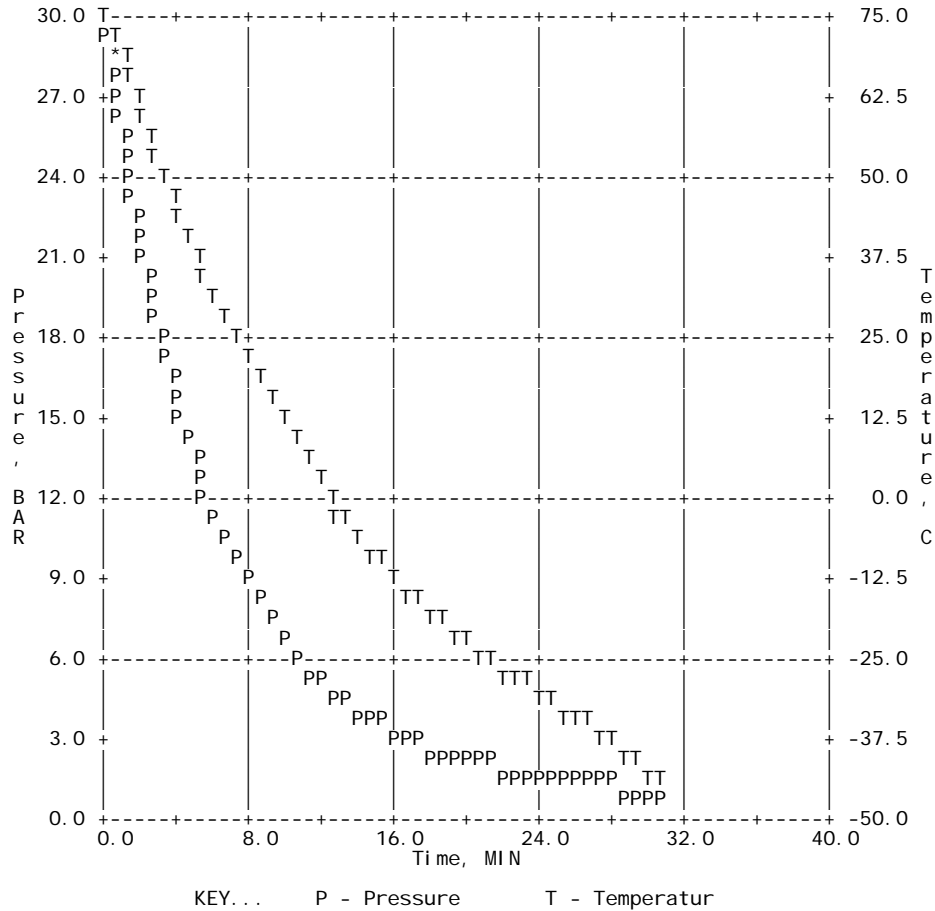
\*\*\* DEPRESSURING SUMMARY



TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	21.350	60.0	1.445E+05	2860.206
8.7E-03	19.933	56.7	1.392E+05	2870.235
1.7E-02	18.611	53.5	1.291E+05	2889.748
2.6E-02	17.322	50.1	1.197E+05	2906.872
3.6E-02	16.088	46.8	1.107E+05	2922.120
4.5E-02	14.905	43.4	1.022E+05	2935.485
5.5E-02	13.767	40.0	94172.814	2947.115
6.6E-02	12.681	36.5	86575.596	2957.095
7.7E-02	11.651	33.0	79424.844	2965.442
8.9E-02	10.666	29.4	72681.848	2972.236
0.101	9.735	25.8	66326.475	2977.534
0.114	8.857	22.1	60366.116	2981.353
0.128	8.029	18.4	54782.936	2983.733
0.142	7.263	14.8	49595.600	2984.710
0.158	6.538	11.0	44764.363	2984.318
0.174	5.866	7.2	40258.326	2982.593
0.192	5.241	3.4	36084.659	2979.555
0.211	4.658	-4.1E-01	32206.586	2975.204
0.232	4.126	-4.3	28634.455	2969.579
0.253	3.658	-8.0	25432.245	2962.885
0.275	3.255	-11.5	22643.106	2955.453
0.297	2.901	-14.8	20216.560	2947.471
0.320	2.593	-18.0	18094.647	2939.053
0.343	2.327	-21.0	16253.969	2930.404
0.367	2.095	-23.8	14651.323	2921.624
0.391	1.890	-26.5	13243.808	2912.740
0.415	1.711	-29.0	12006.796	2903.834
0.439	1.555	-31.4	10921.266	2894.996
0.464	1.417	-33.7	9966.359	2886.276
0.489	1.295	-35.9	9122.295	2877.690
0.514	1.187	-37.9	8373.547	2869.257
0.539	1.091	-39.9	7707.793	2861.000
0.565	1.006	-41.7	7114.813	2852.941
0.578	0.966	-42.6	6702.863	2846.842
UNIT	12	SOLVED	- 'BDV-0204-SPU'	



UNIT 12, 'BDV-0204-SPU', '147-BDV-0204 SPURIOUS' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

### 5.15.9 BDV 0113A/B

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
K-102	SDV 0115		VAPOR	0	0	28965	6.48	0	1
K-102									
TOTAL									

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
K-102	SDV 0115									
K-102										
TOTAL									0	4

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
K-102	SDV 0115							
K-102								
TOTAL		4						0

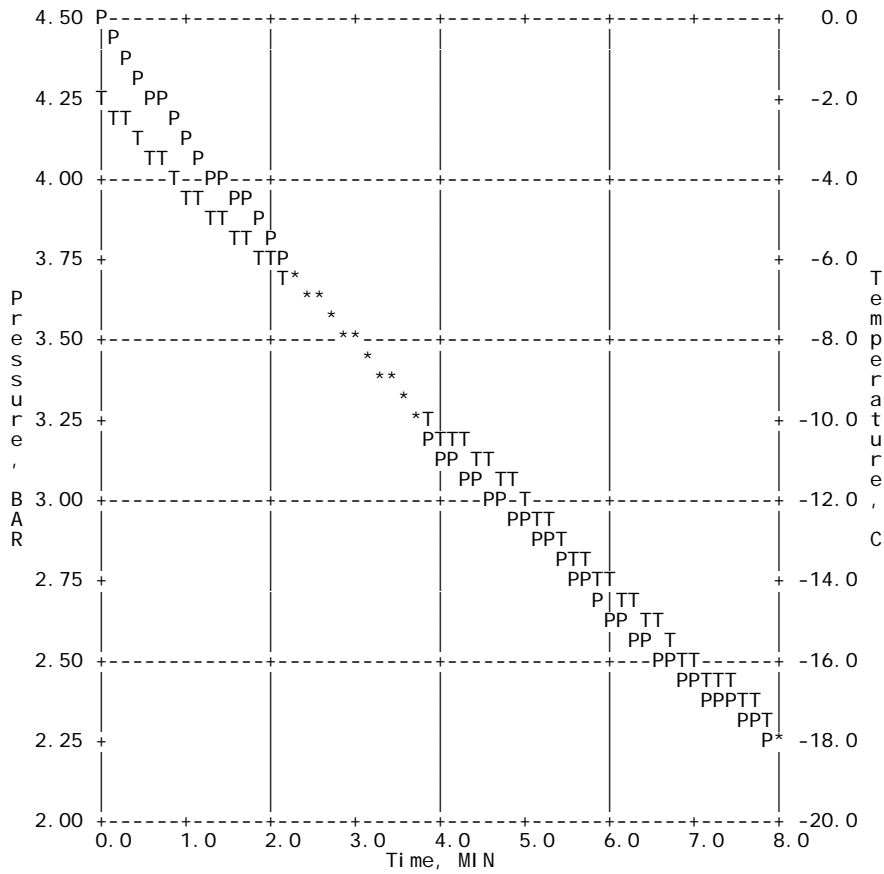
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	4.500	-2.0	206.363	20.956
7.6E-03	4.324	-3.0	202.325	20.957
1.5E-02	4.158	-4.0	194.478	20.958
2.3E-02	3.998	-4.9	187.001	20.958
3.0E-02	3.844	-5.8	179.803	20.957
3.8E-02	3.695	-6.7	172.873	20.955
4.5E-02	3.552	-7.6	166.205	20.953
5.3E-02	3.414	-8.6	159.787	20.949
6.0E-02	3.282	-9.4	153.610	20.945
6.8E-02	3.154	-10.3	147.667	20.940
7.5E-02	3.031	-11.2	141.949	20.934
8.3E-02	2.912	-12.1	136.448	20.927
9.0E-02	2.798	-13.0	131.155	20.920
9.7E-02	2.688	-13.8	126.063	20.912
0.105	2.583	-14.7	121.165	20.903
0.113	2.481	-15.5	116.454	20.893
0.120	2.383	-16.4	111.922	20.883
0.128	2.289	-17.2	107.564	20.872
0.130	2.254	-17.5	104.623	20.864
0.133	2.219	-17.8	103.028	20.860
UNIT	4	SOLVED	- 'BDV-0113-FIR'	

UNIT 4, 'BDV-0113-FIR', '147-BDV-0113 AB FIRE' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

The cold and spurious case are not applicable for this node



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

### 5.15.10    BDV 0198A/B

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
K-101	SDV 0199		VAPOR	0	0	217800	43.7	0	1
	K-101						43.7		
	<b>TOTAL</b>								



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
K-101	SDV 0199									
	K-101									
	<b>TOTAL</b>								0	11.08

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
K-101	SDV 0199							
	K-101							
	<b>TOTAL</b>	11.08						0

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

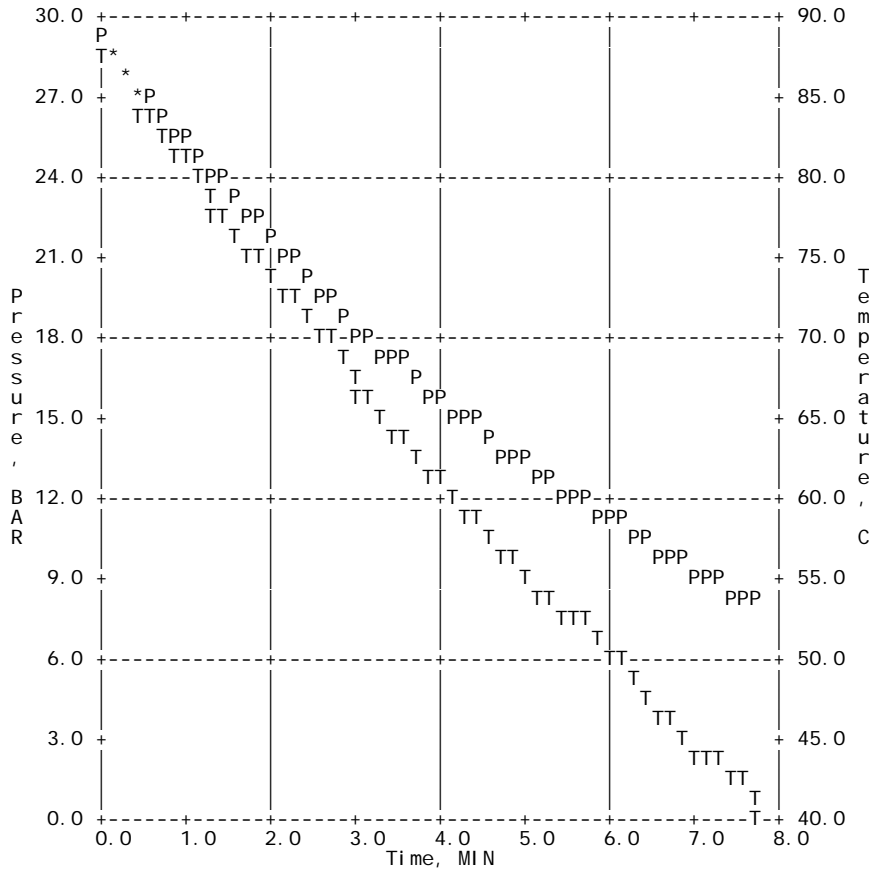
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	29. 000	87. 4	7588. 877	117. 030
3. 8E-03	28. 078	85. 7	7453. 998	117. 253
7. 5E-03	27. 195	84. 2	7190. 935	117. 699
1. 1E-02	26. 334	82. 6	6938. 676	118. 129
1. 5E-02	25. 494	81. 1	6694. 495	118. 547
1. 9E-02	24. 676	79. 6	6458. 200	118. 953
2. 2E-02	23. 878	78. 1	6229. 559	119. 347
2. 6E-02	23. 101	76. 6	6008. 353	119. 729
2. 9E-02	22. 345	75. 1	5794. 367	120. 098
3. 3E-02	21. 608	73. 7	5587. 395	120. 454
3. 7E-02	20. 891	72. 3	5387. 235	120. 798
4. 0E-02	20. 194	70. 9	5193. 693	121. 130
4. 4E-02	19. 515	69. 5	5006. 577	121. 449
4. 7E-02	18. 856	68. 2	4825. 702	121. 756
5. 1E-02	18. 215	66. 8	4650. 888	122. 050
5. 5E-02	17. 592	65. 5	4481. 957	122. 333
5. 8E-02	16. 987	64. 2	4318. 739	122. 604
6. 2E-02	16. 400	62. 9	4161. 063	122. 863
6. 5E-02	15. 830	61. 6	4008. 766	123. 111
6. 9E-02	15. 277	60. 3	3861. 687	123. 347
7. 2E-02	14. 741	59. 1	3719. 670	123. 572
7. 6E-02	14. 221	57. 9	3582. 559	123. 786
7. 9E-02	13. 717	56. 7	3450. 206	123. 989
8. 3E-02	13. 228	55. 5	3322. 464	124. 182
8. 6E-02	12. 755	54. 3	3199. 191	124. 365
9. 0E-02	12. 297	53. 1	3080. 246	124. 538
9. 3E-02	11. 853	52. 0	2965. 493	124. 701
9. 7E-02	11. 424	50. 8	2854. 800	124. 854
0. 100	11. 009	49. 7	2748. 038	124. 998
0. 104	10. 607	48. 6	2645. 079	125. 132
0. 107	10. 218	47. 5	2545. 800	125. 258
0. 111	9. 843	46. 4	2450. 083	125. 375
0. 114	9. 479	45. 3	2357. 810	125. 484
0. 118	9. 129	44. 2	2268. 867	125. 585
0. 121	8. 790	43. 2	2183. 145	125. 677
0. 124	8. 462	42. 1	2100. 535	125. 762
0. 128	8. 146	41. 1	2020. 933	125. 839
0. 130	7. 992	40. 6	1962. 883	125. 893
UNI T	1	SOLVED	- ' BDV-0198-FI R'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
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		<b>Rev. : 3    Class: 2</b>

UNIT 1, 'BDV-0198-FIR', '147-BDV-0198 AB FIRE' (Cont)

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	8. 630	21. 0	2226. 973	118. 678
3. 7E-03	8. 341	20. 7	2186. 482	118. 855
7. 4E-03	8. 066	20. 3	2107. 596	119. 205
1. 1E-02	7. 798	20. 0	2032. 042	119. 540
1. 5E-02	7. 537	19. 7	1958. 957	119. 863
1. 8E-02	7. 283	19. 4	1888. 315	120. 174
2. 2E-02	7. 037	19. 1	1820. 048	120. 474
2. 6E-02	6. 797	18. 9	1754. 089	120. 764
2. 9E-02	6. 565	18. 6	1690. 372	121. 044
3. 3E-02	6. 339	18. 4	1628. 832	121. 313
3. 6E-02	6. 121	18. 1	1569. 405	121. 573
4. 0E-02	5. 909	17. 9	1512. 028	121. 823
4. 3E-02	5. 703	17. 7	1456. 639	122. 064
4. 7E-02	5. 504	17. 4	1403. 178	122. 297
5. 1E-02	5. 311	17. 2	1351. 584	122. 521
5. 4E-02	5. 124	17. 0	1301. 801	122. 737
5. 8E-02	4. 943	16. 8	1253. 770	122. 945
6. 1E-02	4. 768	16. 7	1207. 437	123. 145
6. 5E-02	4. 598	16. 5	1162. 746	123. 338
6. 8E-02	4. 434	16. 3	1119. 646	123. 524
7. 2E-02	4. 275	16. 1	1078. 083	123. 704
7. 5E-02	4. 122	16. 0	1038. 008	123. 876
7. 9E-02	3. 974	15. 8	999. 372	124. 042
8. 2E-02	3. 830	15. 7	962. 126	124. 203
8. 6E-02	3. 692	15. 5	926. 225	124. 357
8. 9E-02	3. 558	15. 4	891. 623	124. 505
9. 3E-02	3. 429	15. 3	858. 276	124. 648
9. 6E-02	3. 304	15. 2	826. 141	124. 786
1. 0E-01	3. 183	15. 0	795. 177	124. 919
0. 103	3. 067	14. 9	765. 344	125. 046
0. 107	2. 954	14. 8	736. 603	125. 169
0. 110	2. 846	14. 7	708. 915	125. 287
0. 114	2. 741	14. 6	682. 244	125. 401
0. 117	2. 640	14. 5	656. 555	125. 511
0. 120	2. 543	14. 4	631. 813	125. 616
0. 124	2. 449	14. 3	607. 984	125. 718
0. 127	2. 358	14. 2	585. 037	125. 816
0. 131	2. 271	14. 1	562. 940	125. 910
0. 134	2. 186	14. 1	541. 662	126. 000
0. 138	2. 105	14. 0	521. 175	126. 088
0. 141	2. 027	13. 9	501. 450	126. 171
0. 145	1. 951	13. 8	482. 460	126. 252
0. 148	1. 878	13. 8	464. 178	126. 330
0. 152	1. 808	13. 7	446. 579	126. 405
0. 155	1. 741	13. 6	429. 637	126. 476
0. 158	1. 675	13. 6	413. 330	126. 546
0. 162	1. 613	13. 5	397. 634	126. 612
0. 165	1. 552	13. 5	382. 526	126. 676
0. 169	1. 494	13. 4	367. 985	126. 738
0. 172	1. 438	13. 4	353. 991	126. 797
0. 176	1. 383	13. 3	340. 523	126. 854
0. 179	1. 331	13. 3	327. 562	126. 909

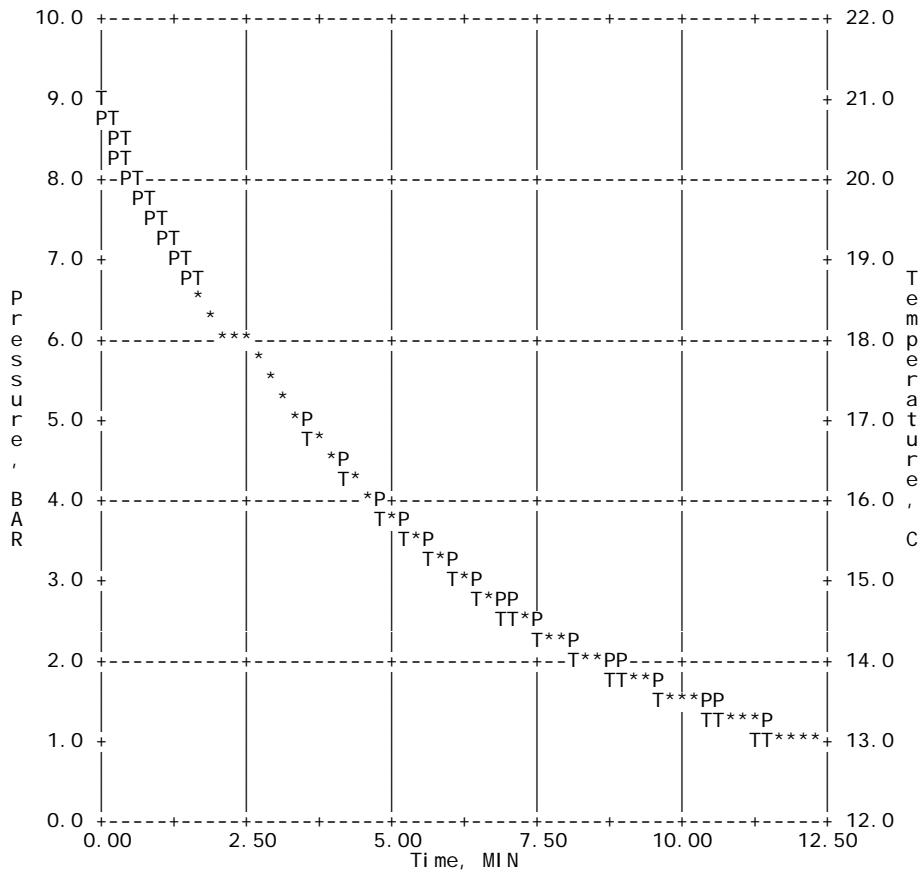


	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>		 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		
	<b>Doc. Number : DB-1516-999-P312-212</b>		

0. 182	1. 281	13. 2	315. 089	126. 962
0. 186	1. 233	13. 2	303. 087	127. 013
0. 189	1. 186	13. 1	291. 538	127. 062
0. 193	1. 141	13. 1	280. 424	127. 109
0. 196	1. 098	13. 0	269. 731	127. 154
0. 199	1. 057	13. 0	259. 442	127. 197
0. 203	1. 017	13. 0	249. 542	127. 239
0. 205	0. 997	12. 9	242. 331	127. 270
UNI T     2	SOLVED	-	' BDV-0198-COL'	

UNIT 2, 'BDV-0198-COL', '147-BDV-0198 AB COLD' (Cont)

Pressure and Temperature Profiles





KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

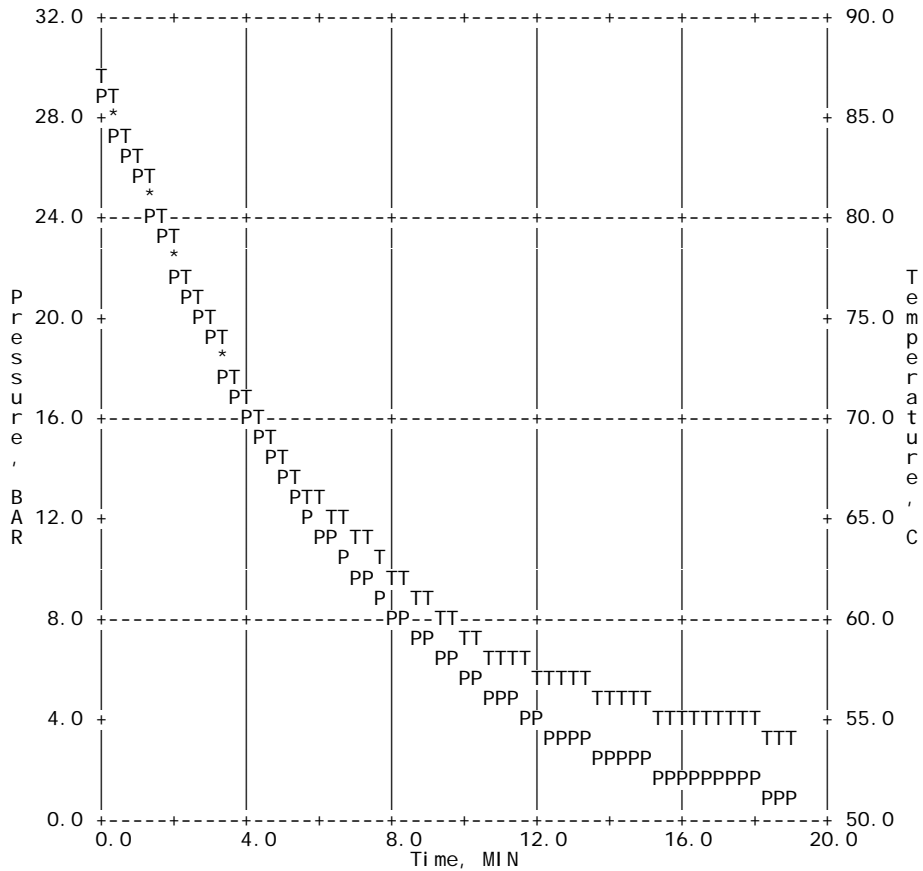
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	29.000	87.4	7588.877	117.030
3.8E-02	21.126	77.1	6429.546	119.380
6.7E-02	16.031	70.9	4573.959	124.392
9.7E-02	11.865	66.1	3344.436	127.720
0.126	8.712	62.6	2418.383	130.286
0.154	6.346	60.0	1744.465	132.171
0.182	4.597	58.1	1254.690	133.550
0.210	3.317	56.8	900.709	134.551
0.237	2.387	55.8	645.678	135.275
0.264	1.714	55.1	462.389	135.796
0.291	1.229	54.6	330.888	136.171
0.319	0.880	54.2	236.661	136.440
UNIT 3	SOLVED	-	'BDV-0198-SPU'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 3, 'BDV-0198-SPU', '147-BDV-0198 AB SPURIOUS' (Cont)

Pressure and Temperature Profiles



KEY... P - Pressure T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



## 5.16 UNIT 148

### 5.16.1 BDV 0103

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
LV 0101	E-103		LIQUID	24450	547.6	0	-	1	0
E-103	PV 0008		VAPOR	0	-	24450	3.9	0	1
PV 0008	SDV 0144		VAPOR	0	-	24450	2.6	0	1
E-103					547.6		3.9		
<b>TOTAL</b>									



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
LV 0101	E-103									
E-103	PV 0008									
PV 0008	SDV 0144									
E-103										
<b>TOTAL</b>									8.689	7.98

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
LV 0101	E-103							
E-103	PV 0008							
PV 0008	SDV 0144							
E-103								
<b>TOTAL</b>		16.58						22.3

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

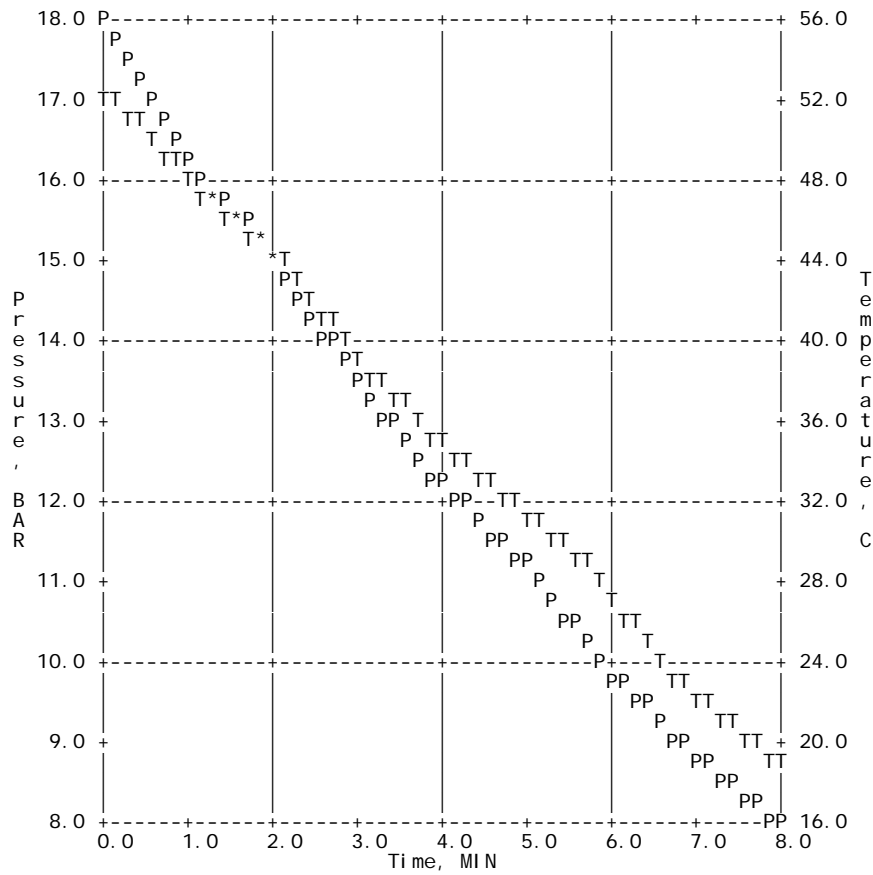
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	18.000	52.3	16703.871	404.927
1.0E-02	17.044	49.7	16228.556	405.715
2.0E-02	16.124	47.2	15301.600	407.263
3.0E-02	15.202	44.6	14401.986	408.681
4.0E-02	14.299	41.9	13519.499	409.988
5.1E-02	13.412	39.2	12662.708	411.167
6.2E-02	12.543	36.4	11829.873	412.221
7.3E-02	11.695	33.5	11022.668	413.146
8.5E-02	10.877	30.5	10245.730	413.935
9.7E-02	10.086	27.5	9500.056	414.586
0.109	9.322	24.4	8784.463	415.099
0.122	8.589	21.3	8099.617	415.472
0.133	7.997	18.6	7496.454	415.697
UNIT    3	SOLVED	- 'BDV-0103-FIR'		

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>
<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>		<b>Pars Oil and Gas Company</b>
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UNIT 3, 'BDV-0103-FIR', '148-BDV-0103 FIRE' (Cont)

Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

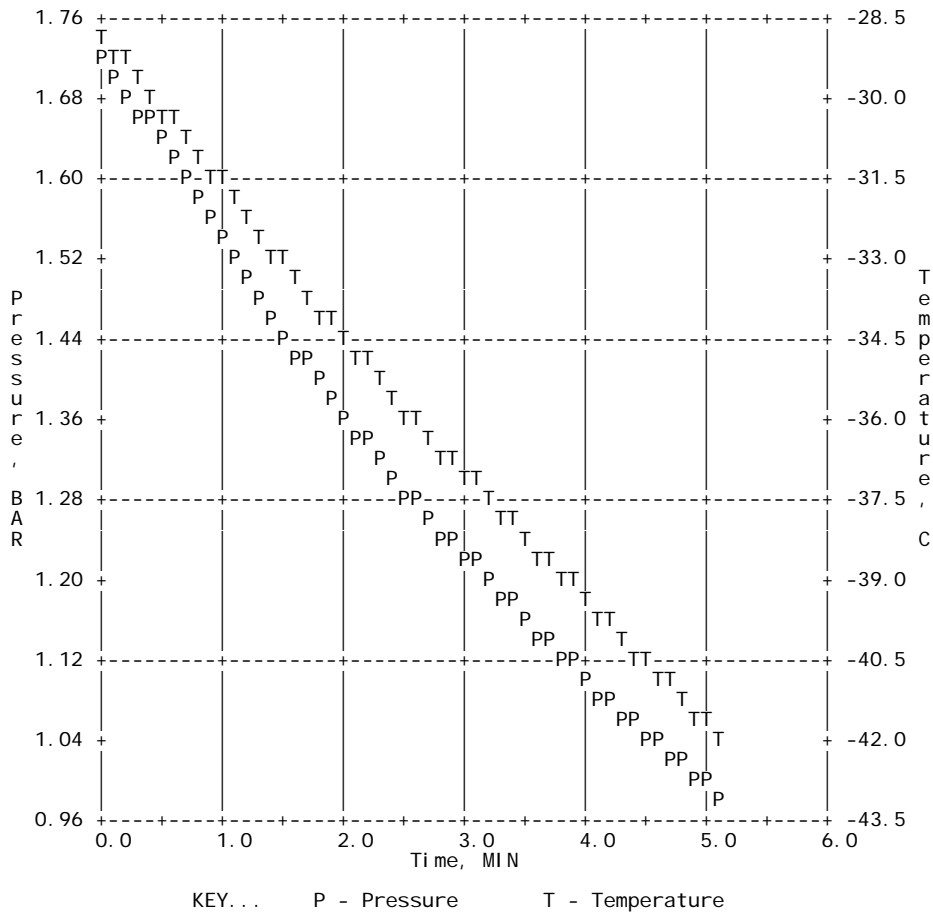
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	1.727	-28.8	1605.772	404.034
1.1E-02	1.592	-30.8	1545.034	403.538
2.2E-02	1.472	-32.7	1429.930	402.515
3.4E-02	1.359	-34.6	1324.750	401.489
5.8E-02	1.158	-38.4	1135.450	399.378
7.1E-02	1.069	-40.3	1050.562	398.297
8.5E-02	0.985	-42.1	971.626	397.199
UNIT 6	SOLVED	- 'BDV-0103-COL'		



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
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	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 6, 'BDV-0103-COL', '148-BDV-0103 COLD' (Cont)

Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.16.2 BDV 0118

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
LV 0116	E-101		LIQUID	73600	503.7	0	-	1	0
E-101	LV 0121		LIQUID	41800	503.7	0	-	1	0
E-101	SDV 0134		VAPOR	0	-	19200	17.8	0	1
E-101					503.7		17.8		
		<b>TOTAL</b>							



FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
LV 0116	E-101									
E-101	LV 0121									
E-101	SDV 0134									
E-101										
		<b>TOTAL</b>							8.26	8.37

FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
LV 0116	E-101							
E-101	LV 0121							
E-101	SDV 0134							
E-101								
		<b>TOTAL</b>	16.63					23.4

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

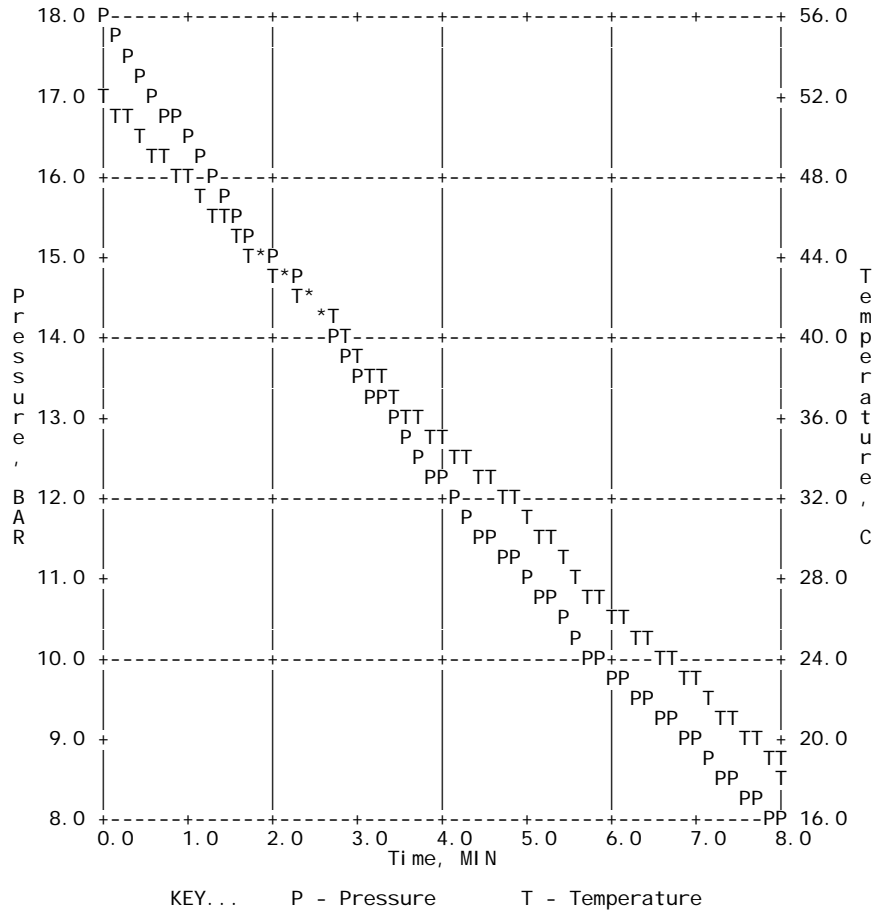
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	18.000	51.9	16482.848	399.716
9.8E-03	17.075	49.5	16029.188	400.469
1.9E-02	16.174	47.0	15138.440	401.956
2.9E-02	15.278	44.5	14271.400	403.326
3.9E-02	14.400	41.9	13424.418	404.585
5.0E-02	13.534	39.2	12600.269	405.727
6.0E-02	12.683	36.5	11795.940	406.756
7.1E-02	11.852	33.7	11014.590	407.664
8.2E-02	11.055	30.8	10264.401	408.443
9.4E-02	10.277	27.9	9543.507	409.093
0.106	9.522	24.9	8846.215	409.617
0.118	8.799	21.9	8177.796	410.011
0.131	8.102	18.8	7539.364	410.270
0.132	8.051	18.5	7204.019	410.374
0.133	8.000	18.3	7158.047	410.383
UNIT	2	SOLVED	- 'BDV-0118-FIR'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

UNIT 2, 'BDV-0118-FIR', '148-BDV-0118 FIRE' (Cont)



Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

\*\*\* DEPRESSURING SUMMARY

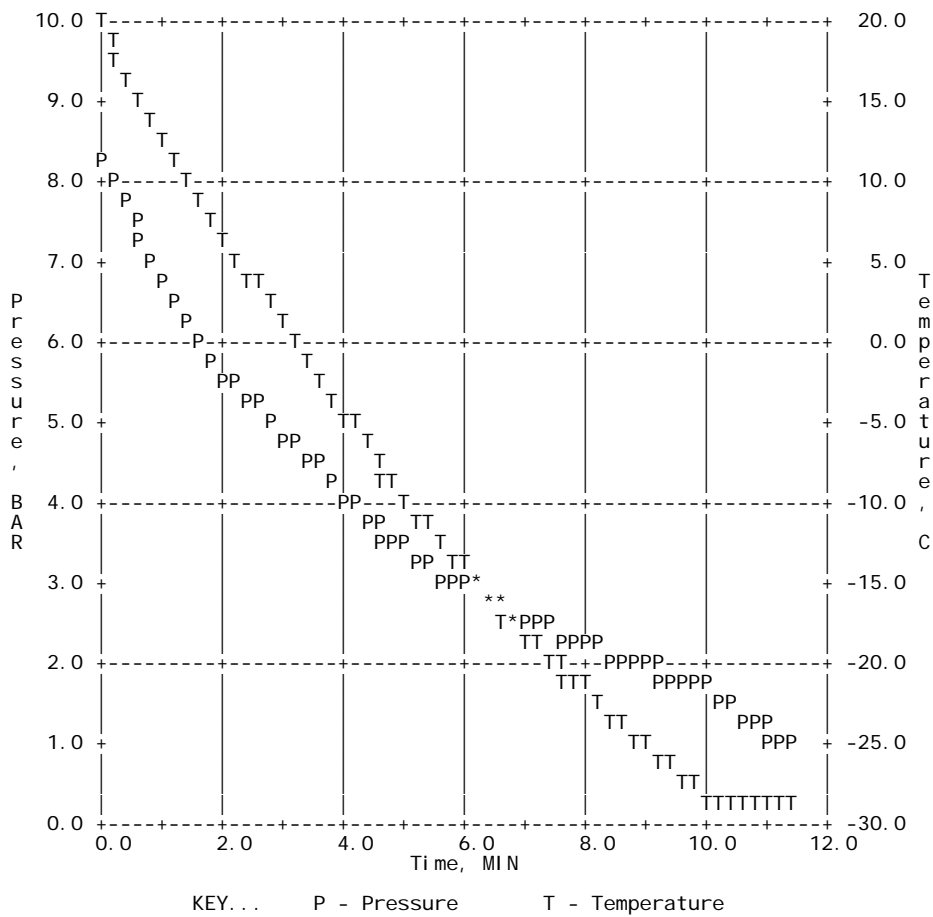
TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	8. 268	19. 4	7373. 803	410. 390
3. 5E-03	7. 939	17. 9	7226. 887	410. 418
7. 0E-03	7. 634	16. 5	6943. 800	410. 460
1. 0E-02	7. 340	15. 0	6676. 343	410. 471
1. 4E-02	7. 059	13. 6	6420. 121	410. 455
1. 7E-02	6. 792	12. 3	6176. 602	410. 413
2. 1E-02	6. 536	10. 9	5944. 352	410. 347
2. 4E-02	6. 292	9. 6	5722. 684	410. 258
2. 8E-02	6. 059	8. 3	5511. 111	410. 149
3. 1E-02	5. 836	7. 0	5309. 027	410. 020
3. 5E-02	5. 623	5. 8	5116. 636	409. 874
3. 8E-02	5. 420	4. 5	4933. 131	409. 711
4. 2E-02	5. 227	3. 3	4758. 216	409. 533
4. 5E-02	5. 043	2. 1	4591. 633	409. 342
4. 8E-02	4. 867	9. 9E-01	4432. 792	409. 138
5. 2E-02	4. 699	-1. 4E-01	4281. 352	408. 923
5. 5E-02	4. 540	-1. 2	4137. 501	408. 698
5. 9E-02	4. 389	-2. 3	4000. 997	408. 466
6. 2E-02	4. 244	-3. 4	3870. 484	408. 225
6. 5E-02	4. 107	-4. 4	3746. 012	407. 977
6. 9E-02	3. 974	-5. 4	3627. 286	407. 723
7. 2E-02	3. 848	-6. 4	3513. 589	407. 462
7. 5E-02	3. 729	-7. 3	3405. 396	407. 198
7. 8E-02	3. 615	-8. 3	3302. 530	406. 930
8. 2E-02	3. 507	-9. 2	3204. 982	406. 662
8. 5E-02	3. 404	-10. 1	3112. 056	406. 391
8. 8E-02	3. 305	-10. 9	3023. 156	406. 118
9. 1E-02	3. 211	-11. 8	2938. 257	405. 844
9. 4E-02	3. 121	-12. 6	2857. 156	405. 569
9. 7E-02	3. 035	-13. 4	2779. 853	405. 295
1. 0E-01	2. 954	-14. 2	2706. 139	405. 021
0. 103	2. 876	-14. 9	2635. 931	404. 748
0. 106	2. 802	-15. 6	2568. 954	404. 478
0. 109	2. 731	-16. 4	2505. 030	404. 209
0. 112	2. 664	-17. 0	2444. 220	403. 943
0. 114	2. 599	-17. 7	2386. 133	403. 680
0. 117	2. 538	-18. 4	2330. 500	403. 419
0. 120	2. 479	-19. 0	2277. 362	403. 161
0. 122	2. 423	-19. 6	2226. 621	402. 906
0. 125	2. 369	-20. 2	2178. 124	402. 655
0. 128	2. 318	-20. 8	2131. 778	402. 408
0. 130	2. 269	-21. 3	2087. 467	402. 164
0. 133	2. 222	-21. 9	2045. 108	401. 925
0. 135	2. 178	-22. 4	2004. 619	401. 690
0. 137	2. 135	-22. 9	1965. 839	401. 459
0. 140	2. 094	-23. 4	1928. 705	401. 232
0. 142	2. 054	-23. 8	1893. 122	401. 009
0. 144	2. 017	-24. 3	1858. 969	400. 790
0. 146	1. 980	-24. 7	1826. 191	400. 575
0. 149	1. 946	-25. 2	1794. 720	400. 365

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

0. 151	1. 912	-25. 6	1764. 470	400. 158
0. 153	1. 880	-26. 0	1735. 342	399. 955
0. 155	1. 849	-26. 3	1707. 267	399. 756
0. 157	1. 819	-26. 7	1680. 157	399. 561
0. 159	1. 790	-27. 0	1653. 920	399. 368
0. 160	1. 762	-27. 4	1628. 478	399. 179
0. 162	1. 734	-27. 7	1603. 750	398. 992
0. 164	1. 708	-28. 0	1579. 649	398. 807
0. 166	1. 682	-28. 3	1556. 066	398. 625
0. 167	1. 636	-28. 5	1523. 015	398. 602
0. 169	1. 575	-28. 5	1473. 292	398. 863
0. 171	1. 518	-28. 5	1417. 778	399. 243
0. 172	1. 462	-28. 6	1364. 444	399. 607
0. 174	1. 408	-28. 6	1313. 070	399. 957
0. 176	1. 356	-28. 7	1263. 588	400. 293
0. 177	1. 306	-28. 7	1215. 932	400. 617
0. 179	1. 257	-28. 7	1170. 038	400. 928
0. 180	1. 211	-28. 8	1125. 844	401. 228
0. 182	1. 166	-28. 8	1083. 288	401. 516
0. 184	1. 122	-28. 8	1042. 313	401. 792
0. 185	1. 081	-28. 9	1002. 861	402. 059
0. 187	1. 040	-28. 9	964. 880	402. 315
0. 188	1. 021	-28. 9	937. 200	402. 503
0. 189	0. 982	-28. 9	910. 383	402. 682
UNIT	5	SOLVED	- 'BDV-0118-COL'	

UNIT 5, 'BDV-0118-COL', '148-BDV-0118 COLD' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

### 5.16.3 BDV 0123

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRACT.	VAPOR VOLUME FRACT.
				(kg/h)	(kg/m3)	(kg/h)	(kg/m3)		
LV 0121	E-102		LIQUID	41800	547	0	-	1	0
E-102	LV 0101		LIQUID	24450	547	0	-	1	0
E-102	SDV 0139		VAPOR	0	-	17400	7.5	0	1
E-102					547		7.5		
		<b>TOTAL</b>							

FROM	TO	DN	Outside D	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQ VOL	VAP VOL
		(inch)	(mm)	(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)
LV 0121	E-102									
E-102	LV 0101									
E-102	SDV 0139									
E-102										
		<b>TOTAL</b>							2.28	10.72



FROM	TO	TOTAL VOLUME	LIQUID WEIGHT	VAPOR WEIGHT	TOTAL AREA	VERT. WET AREA (*)	HORIZ. WET AREA	TOTAL WET AREA
		(m3)	(kg)	(kg)	(m2)	(m2)	(m2)	(m2)
LV 0121	E-102							
E-102	LV 0101							
E-102	SDV 0139							
E-102								
		<b>TOTAL</b>	13					8.8



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

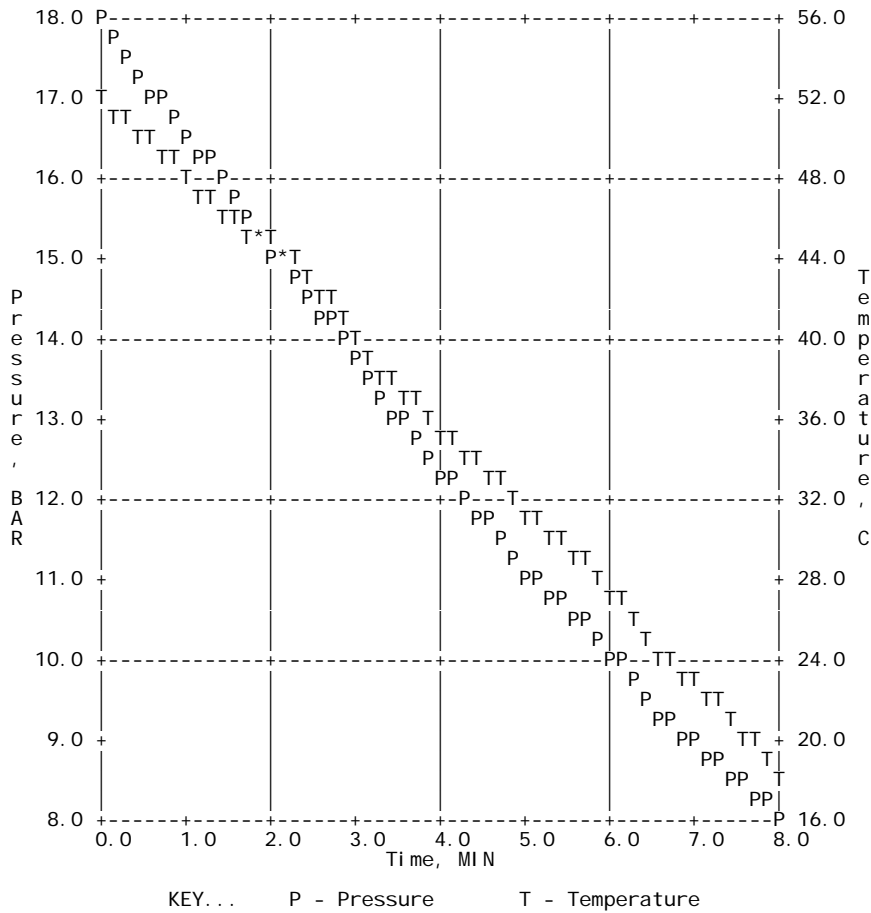
\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	18.000	52.0	7356.838	178.365
7.9E-03	17.297	50.2	7202.716	178.624
1.6E-02	16.605	48.4	6898.102	179.139
2.4E-02	15.919	46.5	6599.823	179.624
3.1E-02	15.237	44.5	6306.345	180.080
3.9E-02	14.570	42.6	6018.981	180.507
4.7E-02	13.895	40.5	5735.250	180.905
5.5E-02	13.240	38.4	5456.259	181.276
6.4E-02	12.599	36.3	5185.984	181.611
7.2E-02	11.959	34.2	4920.554	181.917
8.0E-02	11.339	32.0	4661.154	182.191
8.9E-02	10.736	29.8	4410.710	182.430
9.7E-02	10.149	27.6	4168.323	182.634
0.106	9.576	25.3	3933.188	182.805
0.115	9.021	23.0	3705.441	182.942
0.124	8.484	20.7	3485.750	183.045
0.133	7.980	18.4	3277.164	183.113
UNIT	1	SOLVED	- ' 147-BDV-0123-FI R'	

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b> Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

UNIT 1, 'BDV-0123-FIR', '148-BDV-0123 FIRE' (Cont)

Pressure and Temperature Profiles



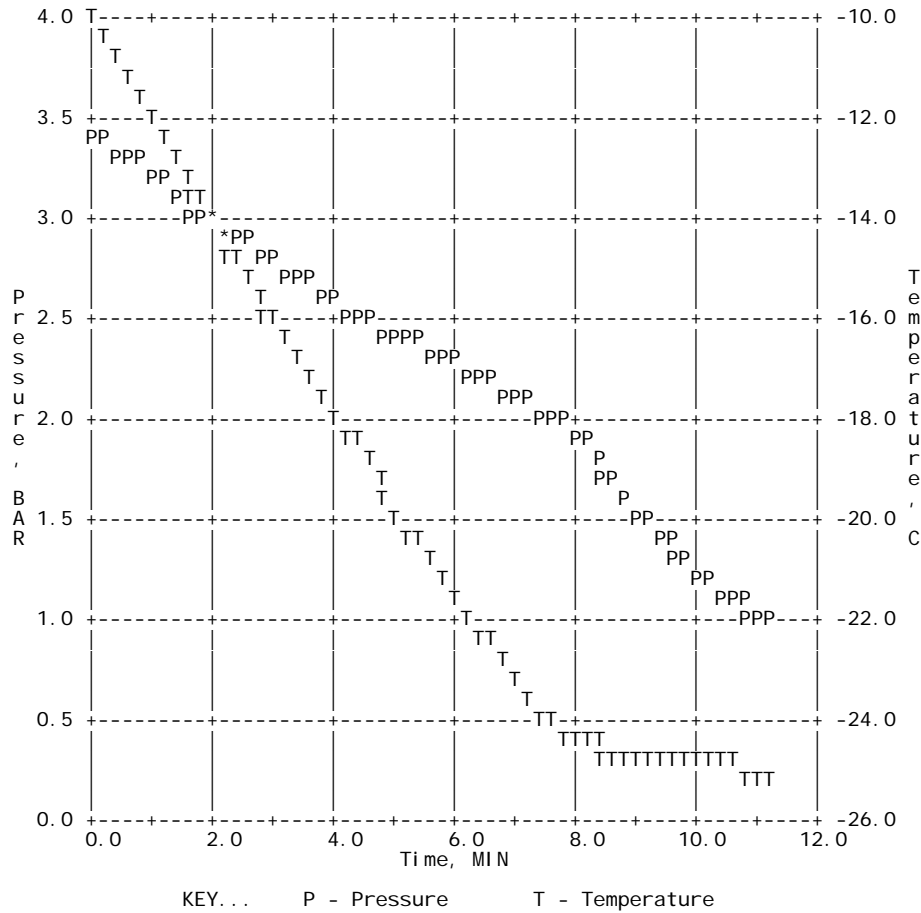
	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0. 000	3. 437	-9. 9	1381. 528	181. 347
5. 7E-03	3. 350	-10. 6	1364. 476	181. 295
1. 1E-02	3. 268	-11. 4	1331. 415	181. 190
1. 7E-02	3. 190	-12. 1	1300. 052	181. 086
2. 2E-02	3. 116	-12. 7	1270. 095	180. 983
2. 8E-02	3. 045	-13. 4	1241. 579	180. 881
3. 3E-02	2. 977	-14. 0	1214. 305	180. 780
3. 8E-02	2. 913	-14. 7	1188. 210	180. 679
4. 3E-02	2. 851	-15. 3	1163. 316	180. 580
4. 8E-02	2. 792	-15. 9	1139. 563	180. 483
5. 3E-02	2. 736	-16. 4	1116. 911	180. 387
5. 8E-02	2. 682	-17. 0	1095. 246	180. 292
6. 2E-02	2. 630	-17. 5	1074. 526	180. 199
6. 7E-02	2. 581	-18. 0	1054. 719	180. 107
7. 1E-02	2. 534	-18. 5	1035. 748	180. 017
7. 6E-02	2. 489	-19. 0	1017. 607	179. 929
8. 0E-02	2. 446	-19. 4	1000. 237	179. 842
8. 4E-02	2. 405	-19. 9	983. 601	179. 757
8. 8E-02	2. 365	-20. 3	967. 668	179. 674
9. 2E-02	2. 327	-20. 7	952. 373	179. 592
9. 6E-02	2. 291	-21. 1	937. 708	179. 512
0. 100	2. 256	-21. 5	923. 659	179. 434
0. 104	2. 222	-21. 9	910. 154	179. 357
0. 107	2. 190	-22. 2	897. 139	179. 282
0. 111	2. 159	-22. 6	884. 594	179. 209
0. 114	2. 129	-22. 9	872. 482	179. 137
0. 118	2. 100	-23. 2	860. 774	179. 066
0. 121	2. 072	-23. 5	849. 437	178. 996
0. 124	2. 044	-23. 8	838. 423	178. 928
0. 127	2. 017	-24. 1	827. 687	178. 860
0. 130	1. 991	-24. 4	817. 185	178. 794
0. 133	1. 934	-24. 5	800. 164	178. 817
0. 136	1. 864	-24. 6	773. 529	178. 973
0. 139	1. 796	-24. 6	744. 502	179. 170
0. 142	1. 730	-24. 6	716. 595	179. 360
0. 144	1. 667	-24. 7	689. 706	179. 542
0. 147	1. 606	-24. 7	663. 800	179. 717
0. 150	1. 547	-24. 7	638. 844	179. 885
0. 153	1. 490	-24. 8	614. 804	180. 047
0. 156	1. 435	-24. 8	591. 649	180. 203
0. 159	1. 382	-24. 8	569. 347	180. 352
0. 161	1. 331	-24. 9	547. 869	180. 496
0. 164	1. 282	-24. 9	527. 185	180. 635
0. 167	1. 234	-24. 9	507. 267	180. 768
0. 170	1. 188	-24. 9	488. 089	180. 896
0. 173	1. 144	-25. 0	469. 623	181. 019
0. 176	1. 101	-25. 0	451. 844	181. 137
0. 178	1. 060	-25. 0	434. 728	181. 251
0. 181	1. 021	-25. 0	418. 250	181. 360
0. 183	1. 001	-25. 0	406. 241	181. 441
0. 185	0. 964	-25. 1	394. 608	181. 517
UNI T	4	SOLVED	- 'BDV-0123-COL'	

UNIT 4, 'BDV-0123-COL', '148-BDV-0123 COLD' (Cont)

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>



## 5.17 UNIT 122

### 5.17.1 BDV 0022 A/B

#### Volume Calculation

FROM	TO	STREAM TAG	PHASE	LIQUID RATE	LIQUID DENSITY	VAPOR RATE	VAPOR DENSITY	LIQUID VOLUME FRAC.	VAPOR VOLUME FRAC.	LIQUID WEIGHT	VAPOR WEIGHT
				(kg/hr)	(kg/m3)	(kg/hr)	(kg/m3)			(kg)	(kg)
SDV-0002A	122-D-101A	1	vapor	0	0.000	52323	21.773	0.000	1.000	0	207
122-D-101A	SDV-0024A	3	vapor	0	0.000	19581.5	15.842	0.000	1.000	0	143
122-D-101A	SDV-0031A	6	vapor	0	0.000	30651.5	15.842	0.000	1.000	0	8
122-D-101A	SDV-0007A	4	vapor	0	0.000	19581.5	15.842	0.000	1.000	0	23
122-D-101A			vapor				15.842			0	83
TOTAL		QUANTITY								0	465

FROM	TO	DN	ED	LINE SPEC.	ED	SCHED.	THK	ID	ID	VERT. LENGTH	HORIZ. LENGTH	LIQUID VOLUME	VAPOR VOLUME	TOTAL VOLUME
		(inch)	(inch)		(mm)		(mm)	(mm)	(inch)	(m)	(m)	(m3)	(m3)	(m3)
SDV-0002A	122-D-101A	10	10.75	D01	273.1	30	7.8	257.45	10.136	12.5	170	0.000	9.500	9.500
122-D-101A	SDV-0024A	10	10.75	D01	273.1	30	7.8	257.45	10.136	4	170	0.000	9.058	9.058
122-D-101A	SDV-0031A	8	8.625	D01	219.1	20	6.35	206.38	8.125	3.5	12.5	0.000	0.535	0.535
122-D-101A	SDV-0007A	4	4.5	D01	114.3	40	6.02	102.26	4.026	4	170	0.000	1.429	1.429
122-D-101A												0.000	5.257	8.237
TOTAL												0.000	25.779	28.759

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

### Wetted area calculation

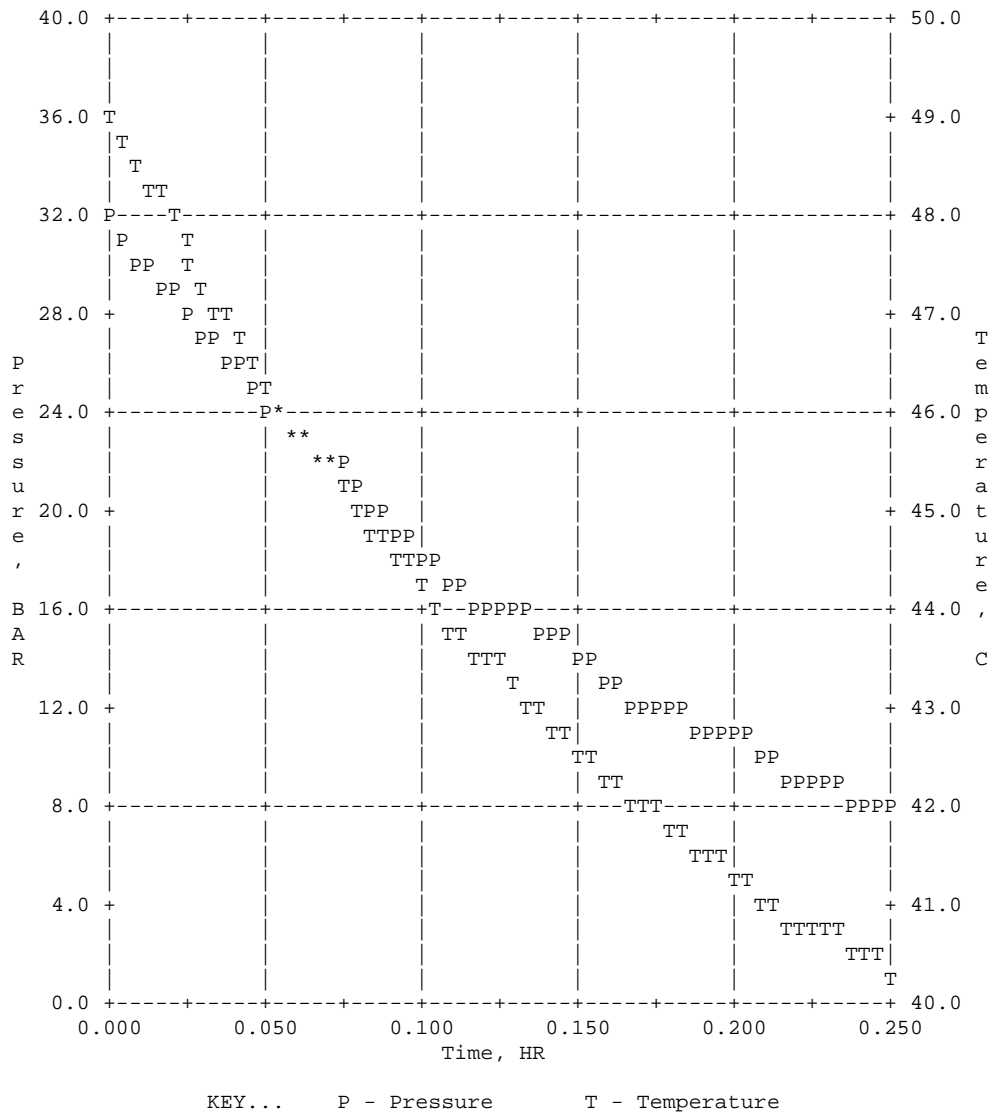
In the system there is no liquid phase and therefore no wetted surface.

### Fire case

#### \*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	32.000	49.1	3369.470	159.527
1.0E-02	30.271	48.4	3278.483	159.524
2.0E-02	28.636	47.9	3101.445	159.518
3.0E-02	27.089	47.3	2934.008	159.515
4.0E-02	25.627	46.8	2775.642	159.514
5.0E-02	24.244	46.3	2625.848	159.514
6.0E-02	22.936	45.9	2484.156	159.515
7.0E-02	21.699	45.4	2350.124	159.517
8.0E-02	20.529	45.0	2223.333	159.520
9.0E-02	19.422	44.6	2103.390	159.524
1.0E-01	18.375	44.2	1989.921	159.528
0.110	17.384	43.8	1882.576	159.533
0.120	16.447	43.5	1781.023	159.538
0.130	15.560	43.2	1684.948	159.544
0.140	14.722	42.9	1594.054	159.549
0.150	13.928	42.6	1508.062	159.555
0.160	13.177	42.3	1426.707	159.561
0.170	12.467	42.0	1349.738	159.567
0.180	11.794	41.8	1276.919	159.573
0.190	11.158	41.5	1208.026	159.579
0.200	10.557	41.3	1142.847	159.585
0.210	9.987	41.1	1081.182	159.590
0.220	9.449	40.9	1022.841	159.596
0.230	8.939	40.7	967.646	159.601
0.240	8.457	40.5	915.427	159.607
0.250	8.001	40.3	866.024	159.612

Pressure and Temperature Profiles



	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

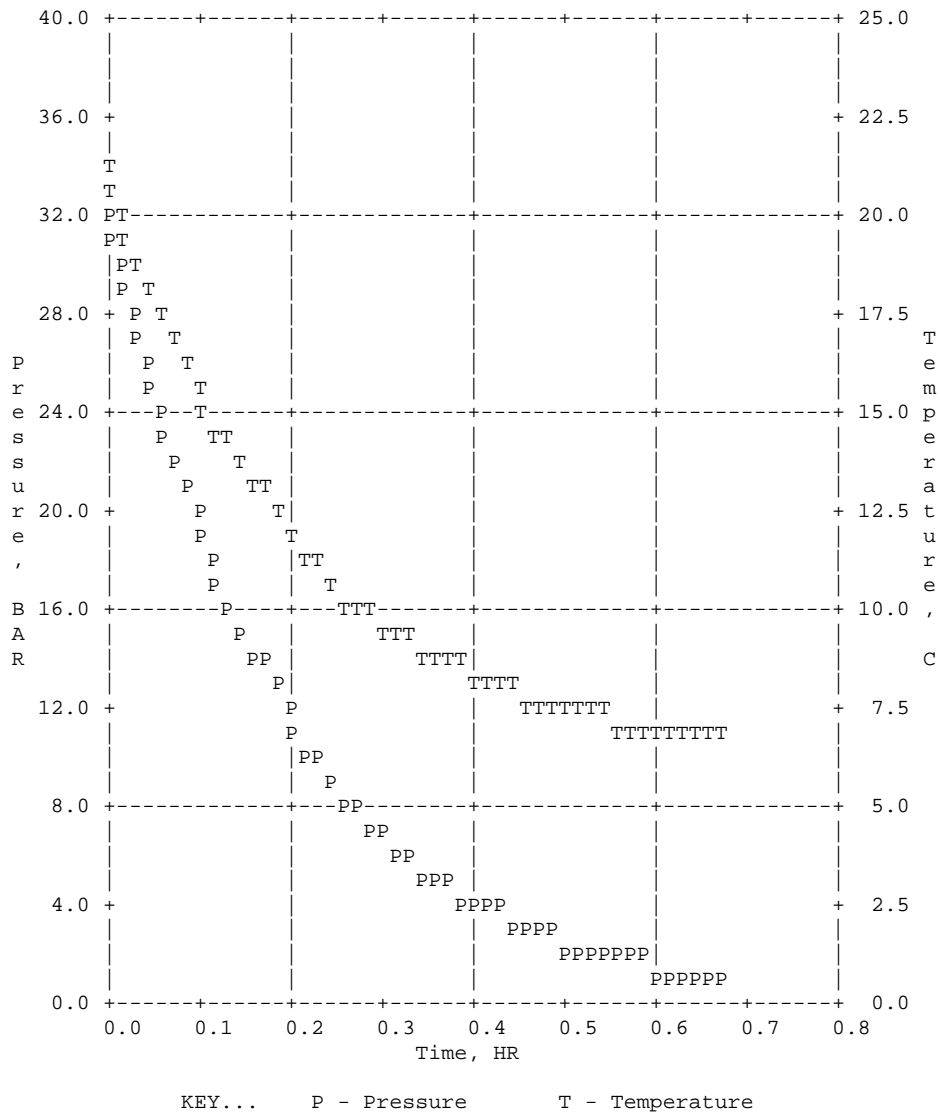
Cold depressurization



\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	32.000	21.0	3542.239	150.332
2.0E-02	28.826	19.6	3366.413	150.338
4.0E-02	25.968	18.4	3032.256	150.354
6.0E-02	23.395	17.3	2731.324	150.375
8.0E-02	21.077	16.2	2460.271	150.400
1.0E-01	18.988	15.3	2216.107	150.426
0.120	17.107	14.4	1996.149	150.453
0.140	15.411	13.6	1797.991	150.480
0.160	13.883	12.9	1619.469	150.507
0.180	12.506	12.3	1458.638	150.533
0.200	11.266	11.7	1313.747	150.558
0.220	10.148	11.2	1183.218	150.582
0.240	9.141	10.7	1065.631	150.604
0.260	8.233	10.3	959.706	150.625
0.280	7.415	9.9	864.290	150.645
0.300	6.679	9.5	778.343	150.663
0.320	6.015	9.2	700.927	150.680
0.340	5.417	8.9	631.199	150.695
0.360	4.878	8.7	568.397	150.709
0.380	4.393	8.4	511.835	150.722
0.400	3.956	8.2	460.893	150.734
0.420	3.563	8.0	415.016	150.745
0.440	3.208	7.9	373.700	150.755
0.460	2.889	7.7	336.493	150.764
0.480	2.601	7.6	302.987	150.772
0.500	2.342	7.4	272.815	150.780
0.520	2.109	7.3	245.645	150.787
0.540	1.899	7.2	221.178	150.793
0.560	1.710	7.1	199.147	150.798
0.580	1.540	7.0	179.310	150.803
0.600	1.386	7.0	161.447	150.808
0.620	1.248	6.9	145.363	150.812
0.640	1.124	6.8	130.880	150.816
0.660	1.012	6.8	117.840	150.819
0.670	0.960	6.8	108.809	150.822



Pressure and Temperature Profiles





	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	
		<b>Rev. : 3    Class: 2</b>

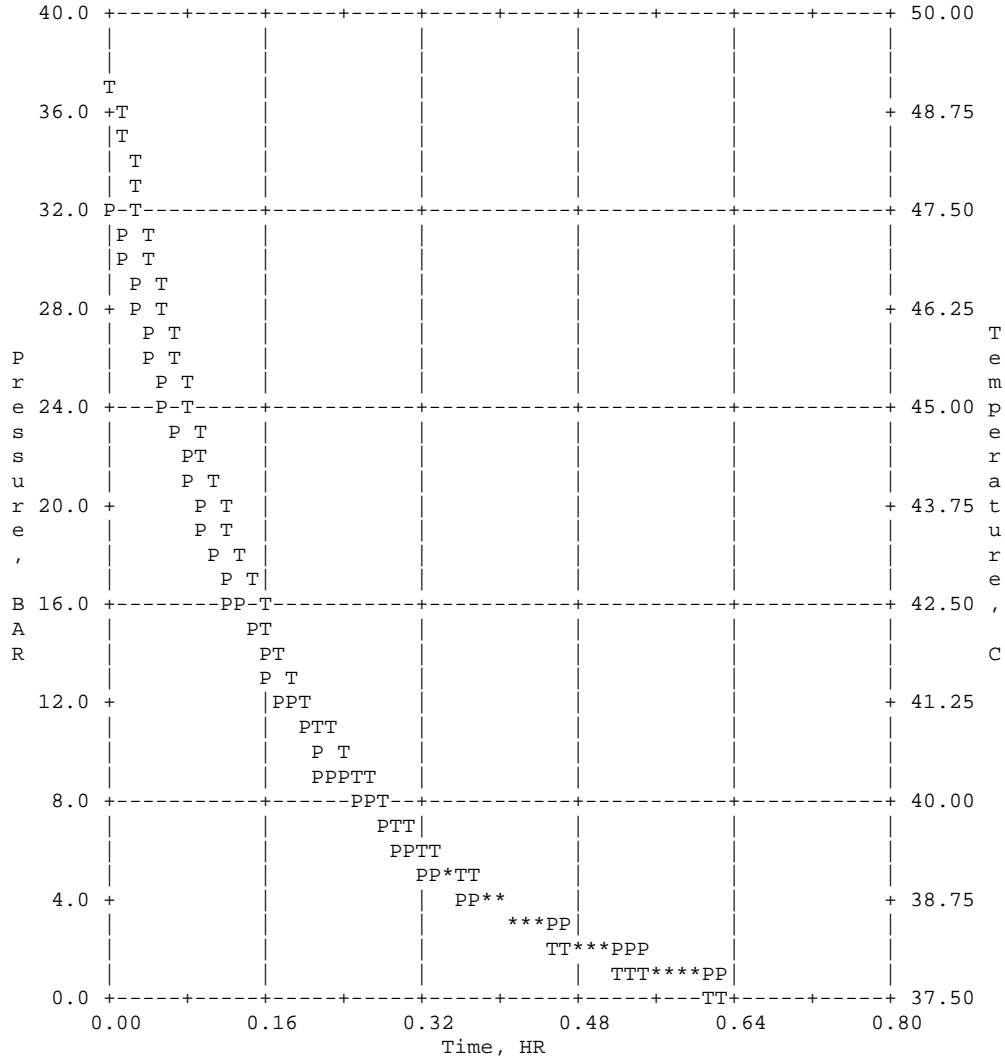
Spurious depressurization

\*\*\* DEPRESSURING SUMMARY

TIME HR	PRES BAR	TEMP C	---- VENT RATE ---- KG/HR	M3/HR
0.000	32.000	49.1	3353.737	158.782
2.0E-02	28.648	47.9	3178.177	158.777
4.0E-02	25.649	46.8	2845.504	158.770
6.0E-02	22.966	45.9	2547.761	158.770
8.0E-02	20.565	45.0	2281.235	158.774
1.0E-01	18.415	44.2	2042.623	158.781
0.120	16.490	43.5	1828.983	158.790
0.140	14.766	42.9	1637.690	158.801
0.160	13.223	42.3	1466.400	158.812
0.180	11.841	41.8	1313.017	158.824
0.200	10.603	41.3	1175.668	158.836
0.220	9.494	40.9	1052.676	158.847
0.240	8.501	40.5	942.541	158.858
0.260	7.612	40.2	843.920	158.869
0.280	6.816	39.9	755.610	158.878
0.300	6.103	39.6	676.533	158.887
0.320	5.465	39.4	605.726	158.896
0.340	4.893	39.1	542.324	158.904
0.360	4.381	38.9	485.554	158.911
0.380	3.922	38.8	434.723	158.918
0.400	3.512	38.6	389.211	158.924
0.420	3.144	38.5	348.460	158.929
0.440	2.815	38.3	311.974	158.935
0.460	2.520	38.2	279.307	158.939
0.480	2.256	38.1	250.058	158.943
0.500	2.020	38.0	223.872	158.947
0.520	1.809	37.9	200.426	158.950
0.540	1.619	37.9	179.436	158.954
0.560	1.450	37.8	160.643	158.956
0.580	1.298	37.7	143.818	158.959
0.600	1.162	37.7	128.754	158.961
0.620	1.040	37.6	115.268	158.963
0.630	0.984	37.6	105.969	158.965

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>Pars Oil and Gas Company</b>
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Pressure and Temperature Profiles



KEY...    P - Pressure    T - Temperature

	<b>South Pars Gas Field Development Phases 15&amp;16 Onshore Facilities</b>	 <b>N.I.O.C.</b>  Pars Oil and Gas Company
	<b>Doc Title : PROCESS DATA FOR BDV'S REPORT</b>	
	<b>Doc. Number : DB-1516-999-P312-212</b>	

## 6 APPENDIX BLOWDOWN NETWORK DIAGRAMS

- PID-1516-100-0021-0001 Units 100/103/104
- PID-1516-101-0021-0001 Unit 101
- PID-1516-105-0021-0001 Units 105/107/116
- PID-1516-106-0021-0001 Units 106/110/111



### South Pars Gas Field Development Phases 15&16 Onshore Facilities

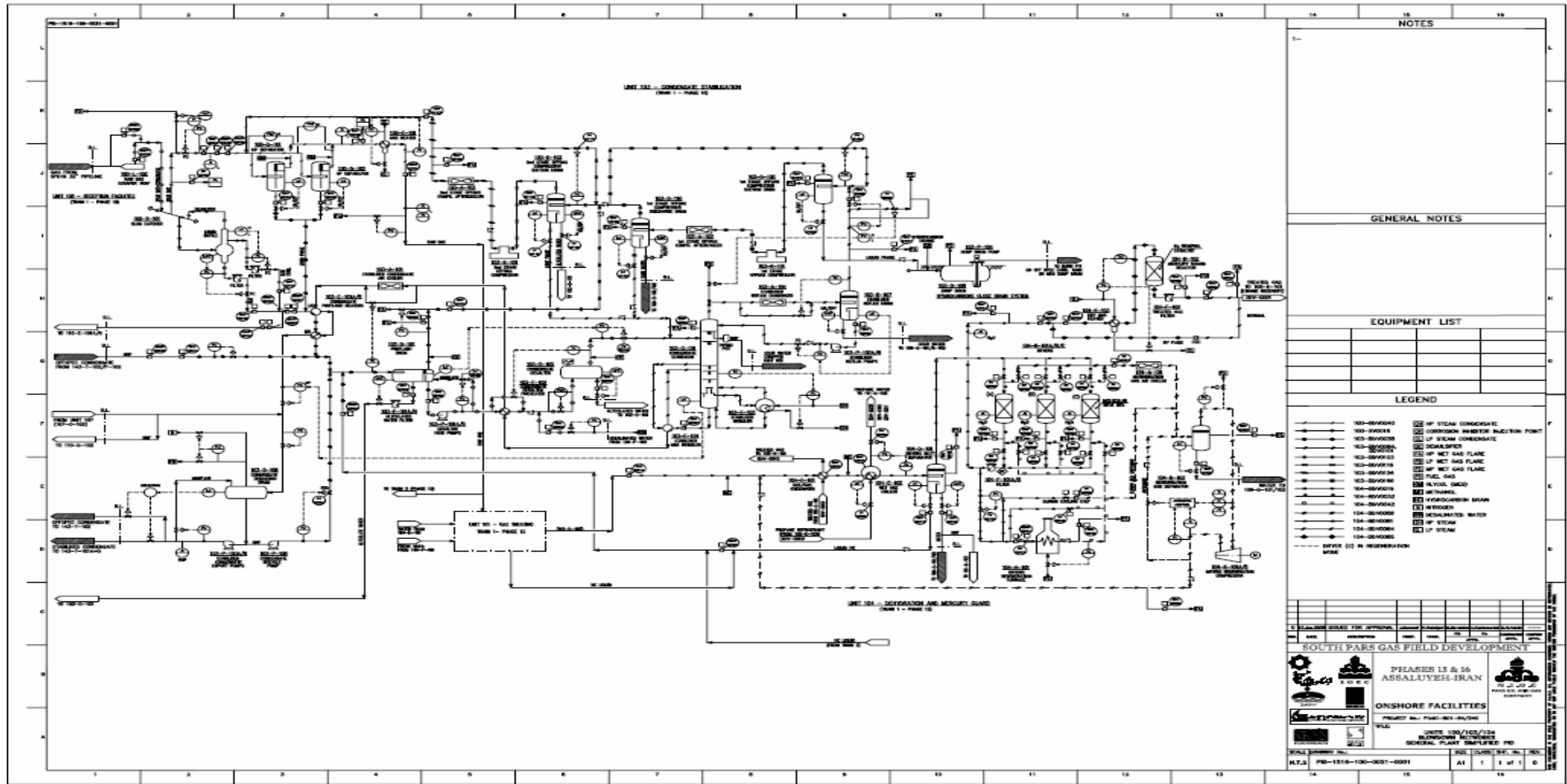


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### South Pars Gas Field Development Phases 15&16 Onshore Facilities

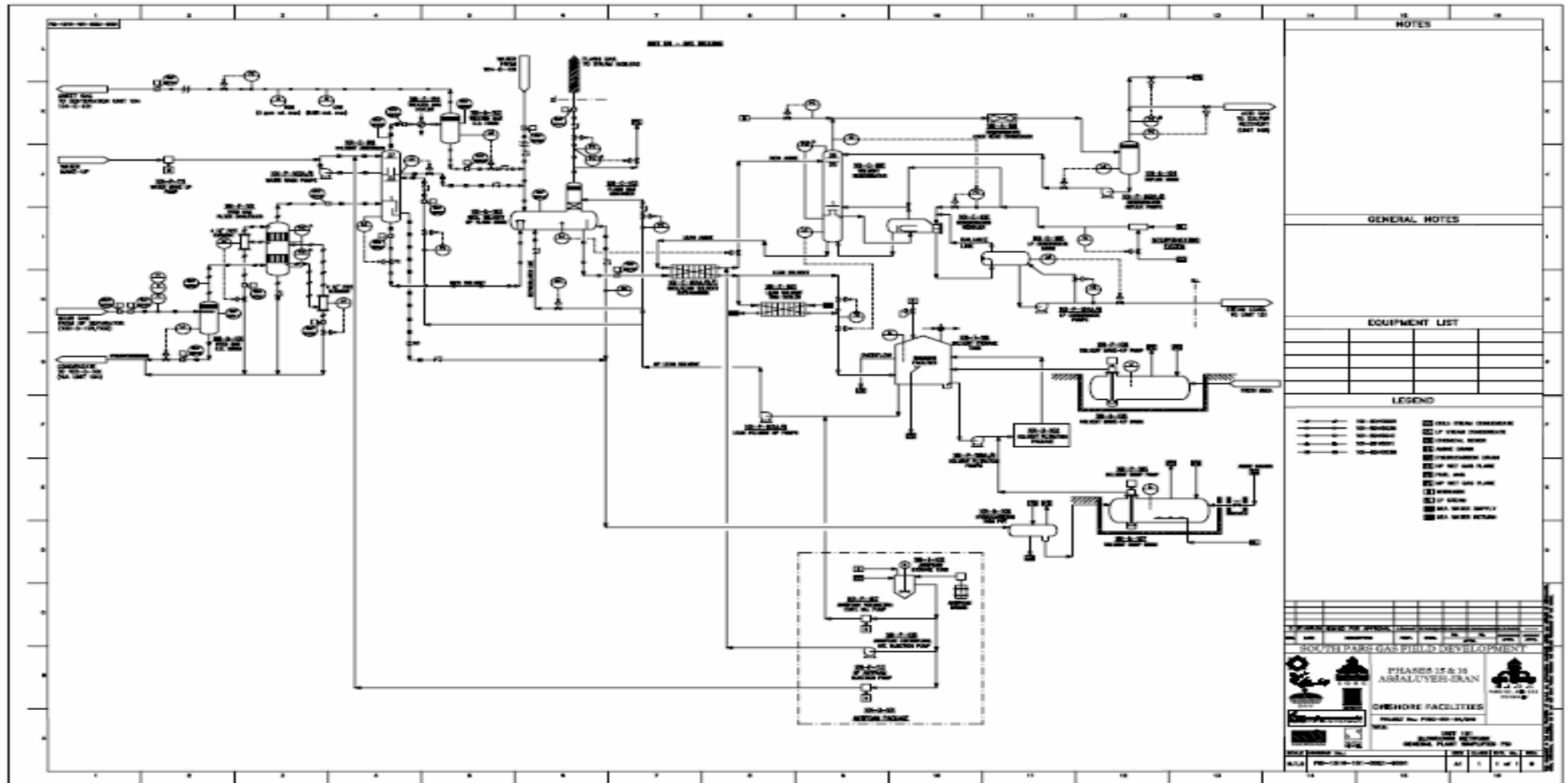


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# South Pars Gas Field Development Phases 15&16 Onshore Facilities

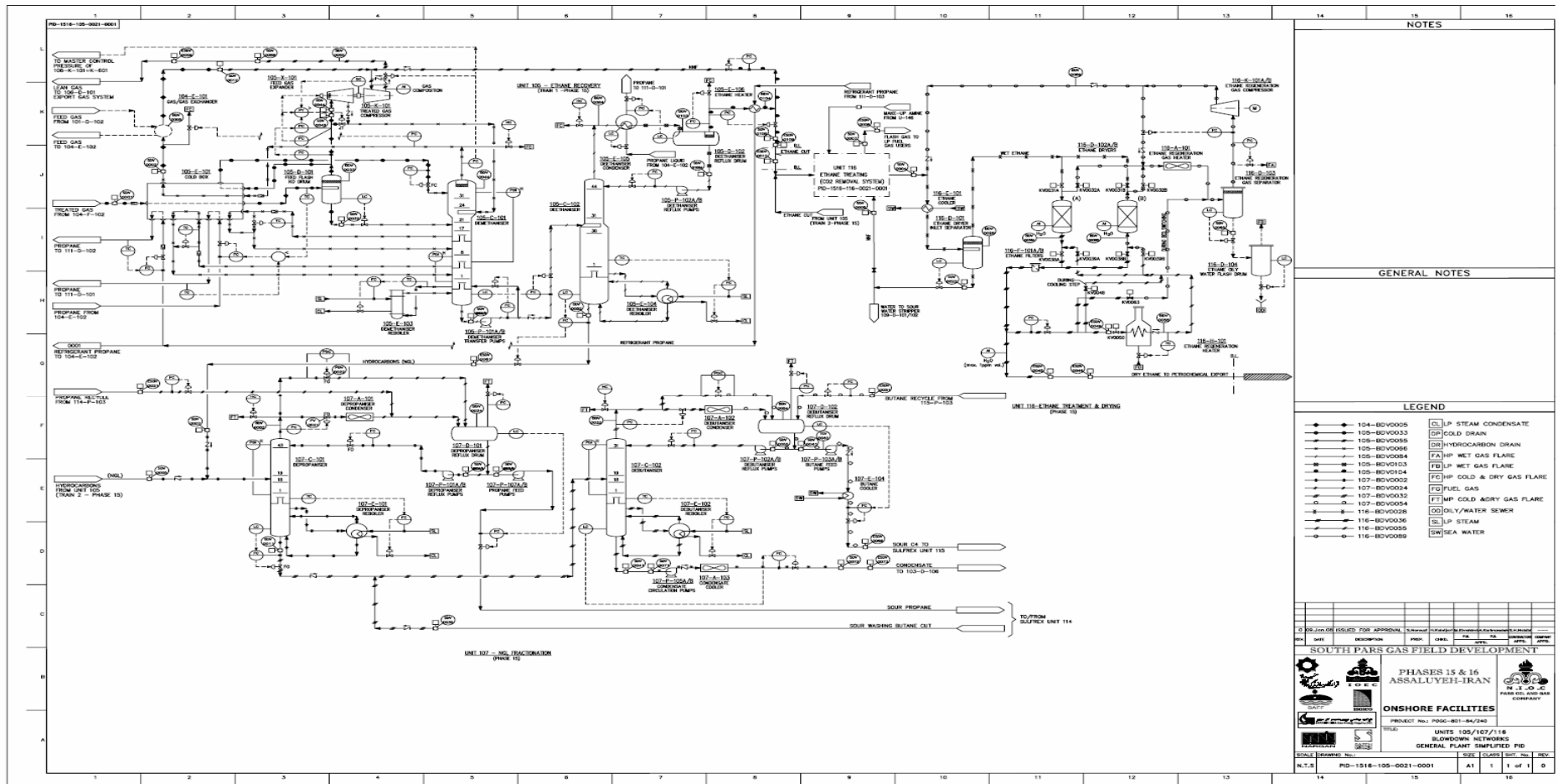


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**NOTES**

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**GENERAL NOTES**

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**LEGEND**

- 104-BDV0005 [Symbol] HP STEAM CONDENSATE
- 105-BDV0033 [Symbol] COLD DRAIN
- 109-BDV0055 [Symbol] HYDROCARBON DRAIN
- 105-BDV0086 [Symbol] HP WET GAS FLARE
- 105-BDV0084 [Symbol] HP WET GAS FLARE
- 105-BDV0153 [Symbol] HP WET GAS FLARE
- 105-BDV0104 [Symbol] HP COLD & DRY GAS FLARE
- 107-BDV0002 [Symbol] FUEL GAS
- 107-BDV0032 [Symbol] HP COLD DRY GAS FLARE
- 107-BDV0054 [Symbol] DILY/WATER SEWER
- 116-BDV0028 [Symbol] HP STEAM
- 116-BDV0036 [Symbol] HP STEAM
- 116-BDV0035 [Symbol] SEA WATER
- 116-BDV0089 [Symbol] SEA WATER

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DATE: 10/20/11 ISSUED FOR APPROVAL

**SOUTH PARS GAS FIELD DEVELOPMENT**

PHASES 15 & 16  
ASSALUYEHI-IRAN

**ONSHORE FACILITIES**

PROJECT No: 1000-001-04/200

UNITS 105/107/116  
BLOWDOWN NETWORKS  
GENERAL PLANT SIMPLIFIED PID

SCALE: DRAWING No.: SIZE: CLASS: SHEET No.: REV.

N.T.S. PID-1516-105-0021-0001 A1 1 1 of 1 0





# South Pars Gas Field Development Phases 15&16 Onshore Facilities



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Rev. : 3 Class: 2

