

CONSTRAINTS SUMMARY FOR ALL ITEMS #
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Title: Production
System type: Production
Optimisation method: Production
PVT model: Black Oil
Prediction: On
Prediction method: Pressure and temperature
Wax or Hydrate warning: Off
Water Vapour: No Calculations
Temperature Model: Rough approximation
Calculate Well Choke DeltaT: Off
Use Default Correlation: Off

	Maximum liquid rate	Minimum PWF rate	Maximum PWF rate	Maximum gas injection rate	Minimum gas injection rate	NO-CLOSE liquid injection rate	Maximum gas liquid water rate	Minimum rate	Maximum	Maximum	Maximum
	Sm3/day	BARa	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/day

System											
Compressor - Compr1											
Inline General - General											
Joint - J1			2280000.0								
Joint - J10			2440000.0								
Joint - J2*											
Joint - J3											
Joint - J4			2280000.0								
Joint - J5			1520000.0								
Joint - J6			5030000.0								
Joint - J7			2440000.0								
Joint - J8											
Joint - J9			4870000.0								
Joint - PLEM											
Pipe - D-1H to J1											
Pipe - J3 to Sep1											
Pipe - D-2H to J1											
Pipe - D-3 H to J1											
Pipe - E-2 H to J4											
Pipe - E-3 H to J4											
Pipe - E-4 H to J4											
Pipe - F-1 H to J5											
Pipe - F-4 H to J5											
Pipe - N-2 H to J6											
Pipe - N-3 H to J6											
Pipe - N-4 H to J6											
Pipe - AN-1 to J7											
Pipe - AN-2 to J7											
Pipe - AG-1 to J9											
Pipe - AS-3 to J9											
Pipe - AS-2 to J9											
Pipe - AS-1 to J9											
Pipe - Ask Head											
Pipe - Ask-1 H											
Pipe - Ask-2 H											
Pipe - Ask-3 H											
Pipe - AV-2 to J10											
Pipe - AV-1 to J10											
Pipe - N-1 H to J6											
Pipe - PLEM to J2*											
Pipe - Temp E H1											
Pipe - Temp F H1											
Pipe - Temp N H1											
Pipe - Temp-DH1											
Pipe - TRUNK LINE											
Separator - Sep1			20860000.0								
Well - AG-1			1220000.0								
Well - AN-1			1220000.0								
Well - AN-2			1220000.0								
Well - AS-1			1220000.0								
Well - AS-2			1220000.0								
Well - AS-3			1220000.0								
Well - AV-1			1220000.0								
Well - AV-2			1220000.0								
Well - D-1H			760800.0								
Well - D-2H			760800.0								
Well - D-3 H			760800.0								
Well - E-2 H			760800.0								
Well - E-3 H			760800.0								
Well - E-4 H			760800.0								
Well - F-1 H			760800.0								
Well - F-4 H			760800.0								
Well - N-1 H			1260000.0								

System
Compressor - Compr1
Inline General - General
Joint - J1
Joint - J10
Joint - J2*
Joint - J3
Joint - J4
Joint - J5
Joint - J6
Joint - J7
Joint - J8
Joint - J9
Joint - PLEM
Pipe - D-1H to J1
Pipe - J3 to Sep1
Pipe - D-2H to J1
Pipe - D-3 H to J1
Pipe - E-2 H to J4
Pipe - E-3 H to J4
Pipe - E-4 H to J4
Pipe - F-1 H to J5
Pipe - F-4 H to J5
Pipe - N-2 H to J6
Pipe - N-3 H to J6
Pipe - N-4 H to J6
Pipe - AN-1 to J7
Pipe - AN-2 to J7
Pipe - AG-1 to J9
Pipe - AS-3 to J9
Pipe - AS-2 to J9
Pipe - AS-1 to J9
Pipe - Ask Head
Pipe - Ask-1 H
Pipe - Ask-2 H
Pipe - Ask-3 H
Pipe - AV-2 to J10
Pipe - AV-1 to J10
Pipe - N-1 H to J6
Pipe - PLEM to J2*
Pipe - Temp E H1
Pipe - Temp F H1
Pipe - Temp N H1
Pipe - Temp-DH1
Pipe - TRUNK LINE
Separator - Sep1
Well - AG-1
Well - AN-1
Well - AN-2
Well - AS-1
Well - AS-2
Well - AS-3
Well - AV-1
Well - AV-2
Well - D-1H
Well - D-2H
Well - D-3 H
Well - E-2 H
Well - E-3 H
Well - E-4 H
Well - F-1 H
Well - F-4 H
Well - N-1 H
Well - N-2 H
Well - N-3 H
Well - N-4 H

Maximum liquid rate Maximum N2 specific gravity Maximum oil

Sm3/day percent Kg/m3

System
Compressor - Compr1
Inline General - General
Joint - J1
Joint - J10
Joint - J2*
Joint - J3
Joint - J4
Joint - J5
Joint - J6
Joint - J7
Joint - J8
Joint - J9

Joint - PLEM
 Pipe - D-1H to J1
 Pipe - J3 to Sep1
 Pipe - D-2H to J1
 Pipe - D-3 H to J1
 Pipe - E-2 H to J4
 Pipe - E-3 H to J4
 Pipe - E-4 H to J4
 Pipe - F-1 H to J5
 Pipe - F-4 H to J5
 Pipe - N-2 H to J6
 Pipe - N-3 H to J6
 Pipe - N-4 H to J6
 Pipe - AN-1 to J7
 Pipe - AN-2 to J7
 Pipe - AG-1 to J9
 Pipe - AS-3 to J9
 Pipe - AS-2 to J9
 Pipe - AS-1 to J9
 Pipe - Ask Head
 Pipe - Ask-1 H
 Pipe - Ask-2 H
 Pipe - Ask-3 H
 Pipe - AV-2 to J10
 Pipe - AV-1 to J10
 Pipe - N-1 H to J6
 Pipe - PLEM to J2*
 Pipe - Temp E H1
 Pipe - Temp F H1
 Pipe - Temp N H1
 Pipe - Temp-DH1
 Pipe - TRUNK LINE
 Separator - Sep1
 Well - AG-1
 Well - AN-1
 Well - AN-2
 Well - AS-1
 Well - AS-2
 Well - AS-3
 Well - AV-1
 Well - AV-2
 Well - D-1H
 Well - D-2H
 Well - D-3 H
 Well - E-2 H
 Well - E-3 H
 Well - E-4 H
 Well - F-1 H
 Well - F-4 H
 Well - N-1 H
 Well - N-2 H
 Well - N-3 H
 Well - N-4 H

 # CONSTRAINTS SUMMARY FOR ALL WELLS #
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Title: Production
 System type: Production
 Optimisation method: Production
 PVT model: Black Oil
 Prediction: On
 Prediction method: Pressure and temperature
 Wax or Hydrate warning: Off
 Water Vapour: No Calculations
 Temperature Model: Rough approximation
 Calculate Well Choke DeltaT: Off
 Use Default Correlation: Off

Maximum Temperature	Minimum BARa	PWF Drawdown Weighting	Maximum Optimisation bar	Well liquid rate Sm3/day	Maximum rate Sm3/day	Maximum gas rate Sm3/day	Maximum oil water rate Sm3/day	Maximum Erosional m/sec	Max
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Well - AG-1				1220000.0					
Well - AN-1				1220000.0					
Well - AN-2				1220000.0					
Well - AS-1				1220000.0					
Well - AS-2				1220000.0					
Well - AS-3				1220000.0					
Well - AV-1				1220000.0					
Well - AV-2				1220000.0					
Well - D-1H				760800.0					
Well - D-2H				760800.0					
Well - D-3 H				760800.0					
Well - E-2 H				760800.0					
Well - E-3 H				760800.0					
Well - E-4 H				760800.0					
Well - F-1 H				760800.0					
Well - F-4 H				760800.0					
Well - N-1 H				1260000.0					
Well - N-2 H				1260000.0					
Well - N-3 H				1260000.0					
Well - N-4 H				1260000.0					

 # CONSTRAINTS SUMMARY FOR ALL SELECTED ITEMS #
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Title: Production
 System type: Production
 Optimisation method: Production
 PVT model: Black Oil
 Prediction: On
 Prediction method: Pressure and temperature
 Wax or Hydrate warning: Off
 Water Vapour: No Calculations
 Temperature Model: Rough approximation
 Calculate Well Choke DeltaT: Off
 Use Default Correlation: Off

Maximum total rate	Maximum liquid rate	Maximum water rate	Maximum gas rate	Maximum gas injection rate	Maximum oil pressure	Minimum gas pressure	Minimum	Maximum	Maximum CO2	Maximum H2S	Maximum N2
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Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/day	BARa	BARa	percent	percent	percent
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Compressor - Compr1

Joint - J10 2440000.0

Joint - J2*

Joint - J3

Joint - J8

Joint - PLEM

Separator - Sep1 20860000.0

Well - AN-2 1220000.0

Well - AS-2 1220000.0

Well - AV-2 1220000.0

Well - D-1H 760800.0

Well - D-3 H 760800.0

Well - N-2 H 1260000.0

Maximum total rate	Maximum gas specific gravity	Maximum oil heating value	Maximum gross heating value	Maximum specific gross heating value	Maximum production deferment	Unscheduled Temperature	Maximum Drawdown Weighting	Minimum PWF Optimisation Velocity	Maximum Erosional	Well	Max
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Sm3/day	Kg/m3	MW	kJ/sm3	percent	deg C	BARa	bar		m/sec
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Compressor - Compr1

Joint - J10

Joint - J2*

Joint - J3

Joint - J8

Joint - PLEM

Separator - Sep1

Well - AN-2

Well - AS-2

Well - AV-2

Well - D-1H

Well - D-3 H

Well - N-2 H

RESULTS - DETAILED FOR ALL ITEMS #
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Title: Production
System type: Production
Optimisation method: Production
PVT model: Black Oil
Prediction: On
Prediction method: Pressure and temperature
Wax or Hydrate warning: Off
Water Vapour: No Calculations
Temperature Model: Rough approximation
Calculate Well Choke DeltaT: Off
Use Default Correlation: Off

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. SOLVE NETWORK REPORT FOR General WGC .
. Name :
. Type : Inline General
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Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day
												MW

65.00	4097.7	17816923.0	16748.8	20846.5	0.00	36070.93	19320.38	4097.7	17816.923	16748.8	20846.5	9757.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Drop	Pressure	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravit
	BARa	Sm3/day	kJ/sm3	BARa	deg C	bar	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3
												sp. gravit

65.00	4097.7	47080.1	150.94	83.74	-32.724	4347.79	80.34	0.00	0.00	854.63	813.7735	0.729
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Separator 'Sep1' pressure	Oil Rate	H2S	CO2	N2 salinity	Water	User Result	User Result	User Result	User Result	User Result	User Result	User Result	User Result
	BARa	Sm3/day	percent	percent	percent	ppm	1	2	3	4	5	6	7

65.00	4097.7	0.00	0.00	0.00	0
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Separator 'Sep1' pressure	Oil Rate	User Result	User Result	User Result	User Result	User Result	User Result	User Result	User Result
	BARa	Sm3/day	8	9	10	11	12	13	14

65.00	4097.7
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 . SOLVE NETWORK REPORT FOR J5 .
 . Name :
 . Type : Joint

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	350.5	1524082.9	0.0	350.5	0.00	1700.71	1700.71	350.5	1524.083	0.0	350.5	859.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent
	65.00	350.5	48454.6	118.63	90.15	4347.79	0.00	0.00	0.00	4347.79	814.0000	0.7550	0.0
Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water									
	BARa	Sm3/day	percent	percent	ppm								
	65.00	350.5	0.00	0.00									

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 . SOLVE NETWORK REPORT FOR J6 .
 . Name :
 . Type : Joint

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	882.4	3836484.3	0.0	882.4	0.00	4503.51	4503.51	882.4	3836.484	0.0	882.4 2279.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent
	65.00	882.4	51088.0	121.32	64.14	4347.79	0.00	0.00	0.00	4347.79	804.0000	0.8040	0.0
Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water									
	BARa	Sm3/day	percent	percent	ppm								
	65.00	882.4	0.00	0.00									

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 . SOLVE NETWORK REPORT FOR J7 .

. Name :

. Type : Joint .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Rate	Average Gas Liquid Rate	Average Heating	Average	Gross
								Value				
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	561.2	2440155.3	0.0	561.2	0.00	2500.09	2500.09	561.2	2440.155	0.0	561.2	1261.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	561.2	44423.8	149.31	73.61	4347.79	0.00	0.00	0.00	4347.79	818.0000	0.6800	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	561.2	0.00	0.00
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Type : Joint

65.00	1973.8	8582146.8	6481.4	8455.2	0.00	15275.05	8792.95	1973.8	8582.147	6481.4	8455.2	4434.
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65.00	1973.8	44423.8	148.73	58.04	4347.79	76.66	0.00	0.00	1014.96	818.0000	0.6800	0.0
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65.00	1973.8	0.00	0.00	0
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 . SOLVE NETWORK REPORT FOR Ask Head .
 . Name : .
 . Type : Pipe .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating Value		
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
65.00	1973.8	8582146.8	6481.4	8455.2	0.00	15275.05	8792.95	1973.8	8582.147	6481.4	8455.2	4434.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT		
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar	Sm3/Sm3	percent			
65.00	1973.8	44423.8	148.73	58.04	118.21	37.07	30.515	4347.79	76.66			
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec
65.00	1973.8	0.00	0.00	1014.96	818.0000	0.6800	0.00	0.00	0.00	0	5.396	66.1
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction	DP							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	1973.8	148.73	-0.000	30.503	0.012							


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. Name :
. Type : Pipe
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Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Rate	Average Gas Rate	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
65.00	851.5	3702252.8	6481.4	7332.9	0.00	10275.30	3793.19	851.5	3702.253	6481.4	7332.9	1913.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT		
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar	Sm3/Sm3	percent			
65.00	851.5	44423.8	150.34	73.61	148.73	71.48	1.612	4347.79	88.39			
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec
65.00	851.5	0.00	0.00	504.86	818.0000	0.6800	0.00	0.00	0.00	0	3.761	55.0
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	851.5	150.34	-0.000	1.612	0.000							

SOLVE NETWORK REPORT FOR Ask-3 H

Name : _____
Type : _____

. Type : Pipe .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Rate	Average Gas Rate	Average Heating Value	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
65.00	561.1	2439738.8	0.0	561.1	0.00	2499.67	2499.67	561.1	2439.739	0.0	561.1	1260.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT			
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar	Sm3/Sm3	percent				
65.00	561.1	44423.8	150.08	73.61	148.73	19.08	1.352	4347.79	0.00				
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor	
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec	
65.00	561.1	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00	1.972	19.6		
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
BARa	Sm3/day	BARa	bar	bar	bar								
65.00	561.1	150.08	-0.000	1.352	0.000								


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. SOLVE NETWORK REF OF
. Name :
. Type : Pipe

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Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Rate	Average Gas Rate	Average Heating Value	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
65.00	365.6	1589754.9	10267.3	10633.0	0.00	12042.44	1774.00	365.6	1589.755	10267.3	10633.0	896.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT			
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar	Sm3/Sm3	percent				
65.00	365.6	48454.6	120.37	90.15	118.21	87.18	2.161	4347.79	96.56				
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor	
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec	
65.00	365.6	0.00	0.01	149.50	814.0000	0.7550	0.00	0.00	0.00	0	2.913	52.4	
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
BARa	Sm3/day	BARa	bar	bar	bar								
65.00	365.6	120.37	-0.000	2.160	0.000								


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. SOLVE NETWORK REF OF
. Name :
. Type : Pipe

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Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Rate	Average Gas Rate	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
65.00	882.3	3836468.7	0.0	882.3	0.00	4503.49	4503.49	882.3	3836.469	0.0	882.3	2279.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT		
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar	Sm3/Sm3	percent			
65.00	882.3	51088.0	121.32	64.14	118.21	36.25	3.111	4347.79	0.00			
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec
65.00	882.3	0.00	0.00	4347.79	804.0000	0.8040	0.00	0.00	0.00	3.338	34.3	
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	882.3	121.32	0.000	3.111	0.000							

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. Name :
. Type : Pipe

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Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Rate	Average Gas Rate	Average Heating Value	Average GOR	Average WCT	Gross MW
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d		Sm3/day	Sm3/day	MW
65.00	525.4	2284	471.4	0.0	525.4	0.00	2549.23	2549.23	525.4	2284.471	0.0	525.4	1287.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT			
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent			
65.00	525.4	4845	4.6	118.58	90.15	118.21	67.82	0.366	4347.79	0.00			
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor	
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec	
65.00	525.4	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00	2.443	22.0		
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
BARa	Sm3/day	BARa	bar	bar	bar								
65.00	525.4	118.58	0.000	0.366	0.000								

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 . SOLVE NETWORK REPORT FOR TRUNK LINE .
 . Name : .
 . Type : Pipe .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating Value		
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
65.00	4097.7	17816923.0	16748.8	20846.5	0.00	36070.93	19320.38	4097.7	17816.923	16748.8	20846.5	9757.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT		
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar	Sm3/Sm3	percent			
65.00	4097.7	47080.1	150.94	83.74	65.16	24.86	85.777	4347.79	80.34			
Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec
65.00	4097.7	0.00	0.00	854.63	813.7735	0.7294	0.00	0.00	0.00	0	7.871	78.1
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction	DP							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	4097.7	150.94	8.237	77.492	0.049							

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 . SOLVE NETWORK REPORT FOR Sep1 .
 . Name :
 . Type : Separator

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	4097.7	17816923.0	16748.8	20846.5	0.00	36070.93	19320.38	4097.7	17816.923	16748.8	20846.5	9757.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	4097.7	47080.1	65.00	24.86	4347.79	80.34	0.00	0.00	854.63	813.7735	0.7294	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water Oil Rate	Separated Gas Rate	Separated Water Rate Wells	Separated Active	Number
BARa	Sm3/day	percent	percent	ppm	Sm3/day	Sm3/day	Sm3/day	

65.00	4097.7	0.00	0.00	0	0.0	17559091.9	16748.8	19.00
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 . SOLVE NETWORK REPORT FOR AG-1 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	280.5	1219680.6	0.0	280.5	0.00	1249.64	1249.64	280.5	1219.681	0.0	280.5	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
	65.00	280.5	44423.8	150.34	73.61	151.57	73.61	175.89	179.41	3.521	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size		Status	GOR	WCT	CGR	WGR		
	BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3		
	65.00	280.5	0.0	0.0	1.234		Choked by Optimiser	4347.79	0.00	0.00	0.00		
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.5	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR AN-1 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	280.6	1220077.7	0.0	280.6	0.00	1250.05	1250.05	280.6	1220.078	0.0	280.6	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	280.6	44423.8	149.31	73.61	151.57	73.61	175.89	179.41	3.523	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	280.6	0.0	0.0	2.265	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR AN-2 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	280.6	1220077.7	0.0	280.6	0.00	1250.05	1250.05	280.6	1220.078	0.0	280.6	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	280.6	44423.8	149.31	73.61	151.57	73.61	175.89	179.41	3.523	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	280.6	0.0	0.0	2.265	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR AS-1 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	9.9	43211.3	6481.4	6491.4	0.00	6526.38	44.27	9.9	43.211	6481.4	6491.4	22.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
				Pressure	Temperature	Pressure	Pressure		Velocity	Velocity			
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	9.9	44423.8	150.34	73.61	154.57	73.61	179.29	179.41	0.124	43.436	4.949	45.5
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size		Status	GOR	WCT	CGR	WGR		
	BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3		
	65.00	9.9	0.0	0.0	4.227	Choked by Optimiser		4347.79	99.85	0.00	0.15		
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	9.9	6.66	818.0000	0.6800	0.00	0.00	0.00	0				

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 . SOLVE NETWORK REPORT FOR AS-2 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	280.5	1219680.6	0.0	280.5	0.00	1249.64	1249.64	280.5	1219.681	0.0	280.5	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
				Pressure	Temperature	Pressure	Pressure		Velocity	Velocity			
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	280.5	44423.8	150.34	73.61	151.57	73.61	175.89	179.41	3.521	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
	65.00	280.5	0.0	0.0	1.234	Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2	N2	Water					
					salinity								
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.5	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR AS-3 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	280.5	1219680.6	0.0	280.5	0.00	1249.64	1249.64	280.5	1219.681	0.0	280.5	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	280.5	44423.8	150.34	73.61	151.57	73.61	175.89	179.41	3.521	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	280.5	0.0	0.0	1.234	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.5	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR AV-1 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	280.6	1219869.5	0.0	280.6	0.00	1249.83	1249.83	280.6	1219.870	0.0	280.6	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	280.6	44423.8	150.08	73.61	151.57	73.61	175.89	179.41	3.522	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	280.6	0.0	0.0	1.494	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR AV-2 .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	280.6	1219869.5	0.0	280.6	0.00	1249.83	1249.83	280.6	1219.870	0.0	280.6	630.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	280.6	44423.8	150.08	73.61	151.57	73.61	175.89	179.41	3.522	43.881	5.052	46.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	280.6	0.0	0.0	1.494	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR D-1H .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	174.9	760411.4	0.0	174.9	0.00	848.54	848.54	174.9	760.411	0.0	174.9	428.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	174.9	48454.6	118.58	90.15	125.35	90.15	135.40	138.18	2.777	46.860	10.431	88.9	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	174.9	0.0	0.0	6.777		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	174.9	4347.79	814.0000	0.7550	0.00	0.00	0.00						

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 . SOLVE NETWORK REPORT FOR D-2H .
 . Name : .
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	175.3	762031.5	0.0	175.3	0.00	850.35	850.35	175.3	762.031	0.0	175.3	429.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	175.3	48454.6	118.58	90.15	125.35	90.15	135.40	138.18	2.783	46.862	10.431	89.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	175.3	0.0	0.0	6.771	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	175.3	4347.79	814.0000	0.7550	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR D-3 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day		Sm3/day
	65.00	175.3	762031.5	0.0	175.3	0.00	850.35	850.35	175.3	762.031	0.0	175.3	429.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	175.3	48454.6	118.58	90.15	125.35	90.15	135.40	138.18	2.783	46.862	10.431	89.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	175.3	0.0	0.0	6.771	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	175.3	4347.79	814.0000	0.7550	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR E-2 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	15.7	68452.1	10267.4	10283.1	0.00	10344.84	76.39	15.7	68.452	10267.4	10283.1	38.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	15.7	48454.6	120.37	90.15	127.78	90.15	137.93	138.18	0.248	46.367	10.210	88.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	15.7	0.0	0.0	7.409	Choked by Optimiser			4347.79	99.85	0.00	0.15	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	15.7	6.66	814.0000	0.7550	0.00	0.00	0.00	0				

.....
 . SOLVE NETWORK REPORT FOR E-3 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	174.9	760652.5	0.0	174.9	0.00	848.81	848.81	174.9	760.652	0.0	174.9	428.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	174.9	48454.6	120.37	90.15	125.35	90.15	135.40	138.18	2.778	46.861	10.431	88.9
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	174.9	0.0	0.0	4.979	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	174.9	4347.79	814.0000	0.7550	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR E-4 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	174.9	760652.5	0.0	174.9	0.00	848.81	848.81	174.9	760.652	0.0	174.9	428.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	174.9	48454.6	120.37	90.15	125.35	90.15	135.40	138.18	2.778	46.861	10.431	88.9
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	174.9	0.0	0.0	4.979	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	174.9	4347.79	814.0000	0.7550	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR F-1 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	175.1	761535.0	0.0	175.1	0.00	849.79	849.79	175.1	761.535	0.0	175.1	429.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	175.1	48454.6	118.63	90.15	125.35	90.15	135.40	138.18	2.781	46.861	10.431	88.9	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	175.1	0.0	0.0	6.722		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	175.1	4347.79	814.0000	0.7550	0.00	0.00	0.00						

.....
 . SOLVE NETWORK REPORT FOR F-4 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating			
	BARa	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	175.4	762547.9	0.0	175.4	0.00	850.92	850.92	175.4	762.548	0.0	175.4	429.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	175.4	48454.6	118.63	90.15	125.35	90.15	135.39	138.18	2.785	46.862	10.431	89.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	175.4	0.0	0.0	6.719	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	175.4	4347.79	814.0000	0.7550	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR N-1 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	294.1	1278828.1	0.0	294.1	0.00	1501.17	1501.17	294.1	1278.828	0.0	294.1	760.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	294.1	51088.0	121.32	64.14	121.84	64.14	130.28	135.23	4.949	38.326	5.954	62.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	294.1	0.0	0.0	0.520	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	294.1	4347.79	804.0000	0.8040	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR N-2 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross	
	BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
	65.00	294.1	1278828.1	0.0	294.1	0.00	1501.17	1501.17	294.1	1278.828	0.0	294.1	760.
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor	
	BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
	65.00	294.1	51088.0	121.32	64.14	121.84	64.14	130.28	135.23	4.949	38.326	5.954	62.0
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion	dP Choke	Choke Size	Status			GOR	WCT	CGR	WGR	
	BARa	Sm3/day	mm/year	mm/year	bar	m	Sm3/Sm3			percent	Sm3/Sm3	Sm3/Sm3	
	65.00	294.1	0.0	0.0	0.520	Choked by Optimiser			4347.79	0.00	0.00	0.00	
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
	BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
	65.00	294.1	4347.79	804.0000	0.8040	0.00	0.00	0.00					

.....
 . SOLVE NETWORK REPORT FOR N-3 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating Value		
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW
65.00	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.000	0.0	0.0	0.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H	W H	B H	Reservoir	Drawdown	Erosional	Mixture	C Factor
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	
65.00	0.0	45498.7	121.39	15.56	121.44	64.14	135.23	135.23	0.005	37.489	5.694	60.7
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size		Status	GOR	WCT	CGR	WGR	
BARa	Sm3/day	mm/year	mm/year	bar	m			Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	
65.00	0.0	0.0	0.0	13789.514		Choked by Optimiser						
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water				
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm				
65.00	0.0		850.0000									

.....
 . SOLVE NETWORK REPORT FOR N-4 H .
 . Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	294.1	1278828.1	0.0	294.1	0.00	1501.17	1501.17	294.1	1278.828	0.0	294.1	760.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	294.1	51088.0	121.32	64.14	121.84	64.14	130.28	135.23	4.949	38.326	5.954	62.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	294.1	0.0	0.0	0.520		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	294.1	4347.79	804.0000	0.8040	0.00	0.00	0.00						

 # RESULTS - SUMMARY FOR ALL ITEMS #
 #####

Title: Production
 System type: Production
 Optimisation method: Production
 PVT model: Black Oil
 Prediction: On
 Prediction method: Pressure and temperature
 Wax or Hydrate warning: Off
 Water Vapour: No Calculations
 Temperature Model: Rough approximation
 Calculate Well Choke DeltaT: Off
 Use Default Correlation: Off

Separator - Sep1 pressure 65.00 BARa

Label	Gas Lift Injection Rate Sm3/day
<hr/>	
Inline General - General WGC	0.0
Joint - J1	0.0
Joint - J10	0.0
Joint - J2*	0.0
Joint - J3	0.0
Joint - J4	0.0
Joint - J5	0.0
Joint - J6	0.0
Joint - J7	0.0
Joint - J8	0.0
Joint - J9	0.0
Joint - PLEM	0.0
Pipe - Ask Head	0.0
Pipe - Ask-1 H	0.0
Pipe - Ask-2 H	0.0
Pipe - Ask-3 H	0.0
Pipe - Temp E H1	0.0
Pipe - Temp F H1	0.0
Pipe - Temp N H1	0.0
Pipe - Temp-DH1	0.0
Pipe - TRUNK LINE	0.0
Separator - Sep1	0.0
Well - AG-1	0.0
Well - AN-1	0.0
Well - AN-2	0.0
Well - AS-1	0.0
Well - AS-2	0.0
Well - AS-3	0.0
Well - AV-1	0.0
Well - AV-2	0.0
Well - D-1H	0.0
Well - D-2H	0.0
Well - D-3 H	0.0
Well - E-2 H	0.0
Well - E-3 H	0.0
Well - E-4 H	0.0
Well - F-1 H	0.0
Well - F-4 H	0.0
Well - N-1 H	0.0
Well - N-2 H	0.0
Well - N-3 H	0.0
Well - N-4 H	0.0

RESULTS - TOTAL SYSTEM FOR ALL ITEMS #
#####

Title: Production
System type: Production
Optimisation method: Production
PVT model: Black Oil
Prediction: On
Prediction method: Pressure and temperature
Wax or Hydrate warning: Off
Water Vapour: No Calculations
Temperature Model: Rough approximation
Calculate Well Choke DeltaT: Off
Use Default Correlation: Off

JOINT SUMMARY #
#####

Label: J1
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate Sm3/day
Maximum gas rate 2280000.0 Sm3/day <Binding>
Maximum liquid rate Sm3/day
Maximum oil rate Sm3/day
Minimum gas injection rate Sm3/day
Minimum pressure BARa
Maximum pressure BARa
Maximum CO2 percent
Maximum H2S percent
Maximum N2 percent
Maximum oil specific gravity Kg/m3
Maximum gross heating value MW
Maximum specific gross heating value kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J1 .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	525.4	2284474.3	0.0	525.4	0.00	2549.23	2549.23	525.4	2284.474	0.0	525.4	1287.	
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	525.4	48454.6	118.58	90.15	4347.79	0.00	0.00	0.00	4347.79	814.0000	0.7550	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	525.4	0.00	0.00	
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JOINT SUMMARY #
#####

Label: J10
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate Sm3/day
Maximum gas rate 2440000.0 Sm3/day <Binding>
Maximum liquid rate Sm3/day
Maximum oil rate Sm3/day
Minimum gas injection rate Sm3/day
Minimum pressure BARa
Maximum pressure BARa
Maximum CO2 percent
Maximum H2S percent
Maximum N2 percent
Maximum oil specific gravity Kg/m3
Maximum gross heating value MW
Maximum specific gross heating value kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J10 .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	561.1	2439739.1	0.0	561.1	0.00	2499.67	2499.67	561.1	2439.739	0.0	561.1	1260.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	561.1	44423.8	150.08	73.61	4347.79	0.00	0.00	0.00	4347.79	818.0000	0.6800	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	561.1	0.00	0.00
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JOINT SUMMARY #
#####

Label: J2*
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate	Sm3/day
Maximum gas rate	Sm3/day
Maximum liquid rate	Sm3/day
Maximum oil rate	Sm3/day
Minimum gas injection rate	Sm3/day
Minimum pressure	BARa
Maximum pressure	BARa
Maximum CO2	percent
Maximum H2S	percent
Maximum N2	percent
Maximum oil specific gravity	Kg/m3
Maximum gross heating value	MW
Maximum specific gross heating value	kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J2* .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	4097.7	17816923.0	16748.8	20846.5	0.00	36070.93	19320.38	4097.7	17816.923	16748.8	20846.5	9757.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	4097.7	47080.1	150.94	83.74	4347.79	80.34	0.00	0.00	854.63	813.7735	0.7294	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	4097.7	0.00	0.00	0
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JOINT SUMMARY #
#####

Label: J3
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate	Sm3/day
Maximum gas rate	Sm3/day
Maximum liquid rate	Sm3/day
Maximum oil rate	Sm3/day
Minimum gas injection rate	Sm3/day
Minimum pressure	BARa
Maximum pressure	BARa
Maximum CO2	percent
Maximum H2S	percent
Maximum N2	percent
Maximum oil specific gravity	Kg/m3
Maximum gross heating value	MW
Maximum specific gross heating value	kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J3 .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	4097.7	17816923.0	16748.8	20846.5	0.00	36070.93	19320.38	4097.7	17816.923	16748.8	20846.5	9757.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	4097.7	47080.1	65.00	24.86	4347.79	80.34	0.00	0.00	854.63	813.7735	0.7294	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	4097.7	0.00	0.00	0
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JOINT SUMMARY #
#####

Label: J5
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate Sm3/day
Maximum gas rate 1520000.0 Sm3/day <Binding>
Maximum liquid rate Sm3/day
Maximum oil rate Sm3/day
Minimum gas injection rate Sm3/day
Minimum pressure BARa
Maximum pressure BARa
Maximum CO2 percent
Maximum H2S percent
Maximum N2 percent
Maximum oil specific gravity Kg/m3
Maximum gross heating value MW
Maximum specific gross heating value kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J5 .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating Value	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	350.5	1524082.9	0.0	350.5	0.00	1700.71	1700.71	350.5	1524.083	0.0	350.5	859.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	
65.00	350.5	48454.6	118.63	90.15	4347.79	0.00	0.00	0.00	4347.79	814.0000	0.7550	0.0	
Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water									
BARa	Sm3/day	percent	percent	ppm									
65.00	350.5	0.00	0.00										

JOINT SUMMARY #
#####

Label: J6
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate Sm3/day
Maximum gas rate 5030000.0 Sm3/day <Binding>
Maximum liquid rate Sm3/day
Maximum oil rate Sm3/day
Minimum gas injection rate Sm3/day
Minimum pressure BARa
Maximum pressure BARa
Maximum CO2 percent
Maximum H2S percent
Maximum N2 percent
Maximum oil specific gravity Kg/m3
Maximum gross heating value MW
Maximum specific gross heating value kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J6 .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	882.4	3836484.3	0.0	882.4	0.00	4503.51	4503.51	882.4	3836.484	0.0	882.4	2279.	
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	882.4	51088.0	121.32	64.14	4347.79	0.00	0.00	0.00	4347.79	804.0000	0.8040	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	882.4	0.00	0.00	
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JOINT SUMMARY #
#####

Label: J7
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate Sm3/day
Maximum gas rate 2440000.0 Sm3/day <Binding>
Maximum liquid rate Sm3/day
Maximum oil rate Sm3/day
Minimum gas injection rate Sm3/day
Minimum pressure BARa
Maximum pressure BARa
Maximum CO2 percent
Maximum H2S percent
Maximum N2 percent
Maximum oil specific gravity Kg/m3
Maximum gross heating value MW
Maximum specific gross heating value kJ/sm3

.....
. SOLVE NETWORK REPORT FOR J7 .
. Name : .
. Type : Joint .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	561.2	2440155.3	0.0	561.2	0.00	2500.09	2500.09	561.2	2440.155	0.0	561.2	1261.	
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	561.2	44423.8	149.31	73.61	4347.79	0.00	0.00	0.00	4347.79	818.0000	0.6800	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	561.2	0.00	0.00	
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PIPE SUMMARY #
#####

Label: Ask Head
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	34000.0	0.0	17.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Ask Head .
. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	1973.8	8582146.8	6481.4	8455.2	0.00	15275.05	8792.95	1973.8	8582.147	6481.4	8455.2	4434.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	1973.8	44423.8	148.73	58.04	118.21	37.07	30.515		4347.79	76.66
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	1973.8	0.00	0.00	1014.96	818.0000	0.6800	0.00	0.00	0.00	0	5.396	66.1
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Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP
BARa	Sm3/day	BARa	bar	bar	bar

65.00	1973.8	148.73	-0.000	30.503	0.012
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PIPE SUMMARY #
#####

Label: Ask-1 H
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
--------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	6000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
-------------	---------------------	----------------------	--------------------

Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Ask-1 H .

. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
					Value							
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	561.2	2440155.2	0.0	561.2	0.00	2500.09	2500.09	561.2	2440.155	0.0	561.2	1261.
-------	-------	-----------	-----	-------	------	---------	---------	-------	----------	-----	-------	-------

Separator 'Sep1' pressure	Oil Rate	Specific	Upstream	Upstream	Downstream	Downstream	Pressure	Status	GOR	WCT
		Gross	Pressure	Temperature	Pressure	Temperature	Drop			
		Heating								
		Value								
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	561.2	44423.8	149.31	73.61	148.73	41.76	0.581		4347.79	0.00
-------	-------	---------	--------	-------	--------	-------	-------	--	---------	------

Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	CO2	N2	Water	Max mixture	C Factor
							salinity	velocity				
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	561.2	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00		1.983	19.7
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Separator 'Sep1' pressure	Oil Rate	Max line	DP Gravity	DP Friction	DP
		pressure		Acceleration	
BARa	Sm3/day	BARa	bar	bar	bar

65.00	561.2	149.31	-0.000	0.581	0.000
-------	-------	--------	--------	-------	-------

PIPE SUMMARY #
#####

Label: Ask-2 H
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	2000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
------------------------------	----------------------------------	------------------------	--------------------------------	-------------------------------	--------------------	----------------------------------	-----------------------------------	------------------	----------------	----------------	---------------

.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
-------------	---------------------	----------------------	--------------------

Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Ask-2 H .

. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
					Value							
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	851.5	3702252.8	6481.4	7332.9	0.00	10275.30	3793.19	851.5	3702.253	6481.4	7332.9	1913.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	851.5	44423.8	150.34	73.61	148.73	71.48	1.612		4347.79	88.39
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	851.5	0.00	0.00	504.86	818.0000	0.6800	0.00	0.00	0.00	0	3.761	55.0
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Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP
BARa	Sm3/day	BARa	bar	bar	bar

65.00	851.5	150.34	-0.000	1.612	0.000
-------	-------	--------	--------	-------	-------

PIPE SUMMARY #
#####

Label: Ask-3 H
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	15000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Ask-3 H .
. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
					Value							
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	561.1	2439738.8	0.0	561.1	0.00	2499.67	2499.67	561.1	2439.739	0.0	561.1	1260.
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Separator 'Sep1' pressure	Oil Rate	Specific	Upstream	Upstream	Downstream	Downstream	Pressure	Status	GOR	WCT
		Gross	Pressure	Temperature	Pressure	Temperature	Drop			
		Heating								
		Value								
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	561.1	44423.8	150.08	73.61	148.73	19.08	1.352		4347.79	0.00
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	CO2	N2	Water	Max mixture	C Factor
							salinity	velocity				
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	561.1	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00		1.972	19.6
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Separator 'Sep1' pressure	Oil Rate	Max line	DP Gravity	DP Friction	DP
		pressure		Acceleration	
BARa	Sm3/day	BARa	bar	bar	bar

65.00	561.1	150.08	-0.000	1.352	0.000
-------	-------	--------	--------	-------	-------

PIPE SUMMARY #
#####

Label: Temp E H1
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	3000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Temp E H1 .

. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	365.6	1589754.9	10267.3	10633.0	0.00	12042.44	1774.00	365.6	1589.755	10267.3	10633.0	896.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	365.6	48454.6	120.37	90.15	118.21	87.18	2.161		4347.79	96.56
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	365.6	0.00	0.01	149.50	814.0000	0.7550	0.00	0.00	0.00	0	2.913	52.4
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Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP
BARa	Sm3/day	BARa	bar	bar	bar

65.00	365.6	120.37	-0.000	2.160	0.000
-------	-------	--------	--------	-------	-------

PIPE SUMMARY #
#####

Label: Temp F H1
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	8000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Temp F H1 .
. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
								Value				
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	350.5	1524081.1	0.0	350.5	0.00	1700.71	1700.71	350.5	1524.081	0.0	350.5	859.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	350.5	48454.6	118.63	90.15	118.21	29.96	0.416		4347.79	0.00
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	350.5	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00	1.627	14.7
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Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP
BARa	Sm3/day	BARa	bar	bar	bar

65.00	350.5	118.63	-0.000	0.416	0.000
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PIPE SUMMARY #
#####

Label: Temp N H1
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	11000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Temp N H1 .
. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
								Value				
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	882.3	3836468.7	0.0	882.3	0.00	4503.49	4503.49	882.3	3836.469	0.0	882.3	2279.
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Separator 'Sep1' pressure	Oil Rate	Specific	Upstream	Upstream	Downstream	Downstream	Pressure	Status	GOR	WCT
		Gross	Pressure	Temperature	Pressure	Temperature	Drop			
		Heating								
		Value								
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	882.3	51088.0	121.32	64.14	118.21	36.25	3.111		4347.79	0.00
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	CO2	N2	Water	Max mixture	C Factor
							salinity	velocity				
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	882.3	0.00	0.00	4347.79	804.0000	0.8040	0.00	0.00	0.00		3.338	34.3
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Separator 'Sep1' pressure	Oil Rate	Max line	DP Gravity	DP Friction	DP
		pressure		Acceleration	
BARa	Sm3/day	BARa	bar	bar	bar

65.00	882.3	121.32	0.000	3.111	0.000
-------	-------	--------	-------	-------	-------

PIPE SUMMARY #
#####

Label: Temp-DH1
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	3000.0	0.0	14.00	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 100.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity salinity Kg/m3	Gas gravity sp. gravity ppm	Water percent	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	
LedaFlow 3P	1	1	

CONSTRAINTS #
#####

Max mixture velocity m/sec
Max C Factor
Max line pressure BARa

.....
. SOLVE NETWORK REPORT FOR Temp-DH1 .
. Name :
. Type : Pipe
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating		
								Value				
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	525.4	2284471.4	0.0	525.4	0.00	2549.23	2549.23	525.4	2284.471	0.0	525.4	1287.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Upstream Pressure	Upstream Temperature	Downstream Pressure	Downstream Temperature	Pressure Drop	Status	GOR	WCT
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	bar		Sm3/Sm3	percent

65.00	525.4	48454.6	118.58	90.15	118.21	67.82	0.366		4347.79	0.00
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Separator 'Sep1' pressure	Oil Rate	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S salinity	CO2 velocity	N2	Water	Max mixture	C Factor
BARa	Sm3/day	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	percent	ppm	m/sec

65.00	525.4	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00	2.443	22.0
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Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP
BARa	Sm3/day	BARa	bar	bar	bar

65.00	525.4	118.58	0.000	0.366	0.000
-------	-------	--------	-------	-------	-------

PIPE SUMMARY #
#####

Label: TRUNK LINE
Name:
Mask: Included in system

.....
. Environment .
.....

Surrounding Temperature: 4.00 deg C
Overall Heat Transfer Coefficient: 5.6790 W/m2/K
Oil Heat Capacity: 2.2190 KJ/Kg/K
Gas Heat Capacity: 2.1353 KJ/Kg/K
Water Heat Capacity: 4.1868 KJ/Kg/K

.....
. Pipe Description .
.....

Correlation: Mukerjee Brill
Flow type: Tubing Flow

Segment Type	Length Vertical Depth m	True Diameter inches m	Inside Diameter m	Roughness	K Value Type	Fitting
-----------------	----------------------------------	---------------------------------	-------------------------	-----------	-----------------	---------

Downstream		0.0				
Line pipe	143000.0	0.0	26.70	4.94e-5		
Line pipe	337.0	337.0	26.70	4.94e-5		

Rate Multiplier: 1
Maximum Length Step: 1000.0 m

.....
. Pipe Match Data .
.....

Upstream Pressure BARa	Upstream Temperature deg C	Liquid Rate Sm3/day	Downstream Pressure BARa	Water Cut Ratio percent	Gas Oil Sm3/Sm3	Oil gravity Kg/m3	Gas gravity sp. gravity	Water ppm	H2S percent	CO2 percent	N2 percent
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.....
. Pipe Match Parameters .
.....

Correlation	Gravity Coefficient	Friction Coefficient	Standard Deviation
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Mukerjee Brill	1	1	
Beggs and Brill	1	1	
Dukler Flannigan	1	1	
Dukler Eaton Flannigan	1	1	
Hagedorn Brown	1	1	
Fancher Brown	1	1	
Petroleum Experts	1	1	
Petroleum Experts 2	1	1	
Petroleum Experts 3	1	1	
Duns and Ros Modified	1	1	
Duns and Ros Original	1	1	
Beggs and Brill (Gas Head)	1	1	
GRE (modified by PE)	1	1	
GRE (with DSM)	1	1	
GRE (original)	1	1	
GRE (with AE)	1	1	
Petroleum Experts 4	1	1	
Petroleum Experts 5	1	1	
Hydro-3P	1	1	
Hydro-2P	1	1	
OLGAS 2P	1	1	
OLGAS 3P	1	1	
OLGAS3P EXT	1	1	
LedaFlow 2P	1	1	

SEPARATOR SUMMARY #
#####

Label: Sep1
Name:
Mask: Included in system

CONSTRAINTS #
#####

Maximum water rate Sm3/day
Maximum gas rate 20860000.0 Sm3/day <Binding>
Maximum liquid rate Sm3/day
Maximum oil rate Sm3/day
Minimum gas injection rate Sm3/day
Maximum CO2 percent
Maximum H2S percent
Maximum N2 percent
Maximum oil specific gravity Kg/m3
Maximum gross heating value MW
Maximum specific gross heating value kJ/sm3
Unscheduled production deferment percent

.....
. SOLVE NETWORK REPORT FOR Sep1 .
. Name : .
. Type : Separator .
.....

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue	Mass Flow	HC Mass	Average Oil	Average Gas	Average	Average	Gross
				Rate	Flow Rate	Rate	Rate	Water Rate	Liquid Rate	Heating	Value	
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW

65.00	4097.7	17816923.0	16748.8	20846.5	0.00	36070.93	19320.38	4097.7	17816.923	16748.8	20846.5	9757.
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Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S
BARa	Sm3/day	kJ/sm3	BARa	deg C	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	4097.7	47080.1	65.00	24.86	4347.79	80.34	0.00	0.00	854.63	813.7735	0.7294	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water Oil Rate	Separated Gas Rate	Separated Water Rate	Separated Active Wells	Number
BARa	Sm3/day	percent	percent	ppm	Sm3/day	Sm3/day	Sm3/day	

65.00	4097.7	0.00	0.00	0	0.0	17559091.9	16748.8	19.00
-------	--------	------	------	---	-----	------------	---------	-------

```
#####
# WELL SUMMARY #
#####
```

Label: AG-1
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 818.0000 Kg/m3
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
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 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1220000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AG-1 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.5	1219680.6	0.0	280.5	0.00	1249.64	1249.64	280.5	1219.681	0.0	280.5	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.5	44423.8	150.34	73.61	151.57	73.61	175.89	179.41	3.521	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.5	0.0	0.0	1.234		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.5	4347.79	818.0000	0.6800	0.00	0.00	0.00						

 # WELL SUMMARY #
 #####

Label: AN-1
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

.....
 . Constraints .

 # dP Control Parameters #
 #####

Delta Pressure drop: Calculated

 # IPR Layer details, layer 1 #
 #####

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 818.0000 Kg/m3
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1220000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AN-1 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.6	1220077.7	0.0	280.6	0.00	1250.05	1250.05	280.6	1220.078	0.0	280.6	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.6	44423.8	149.31	73.61	151.57	73.61	175.89	179.41	3.523	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.6	0.0	0.0	2.265		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00						


```
#####
# WELL SUMMARY #
#####
```

Label: AN-2
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 818.0000 Kg/m³
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 1220000.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AN-2 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.6	1220077.7	0.0	280.6	0.00	1250.05	1250.05	280.6	1220.078	0.0	280.6	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.6	44423.8	149.31	73.61	151.57	73.61	175.89	179.41	3.523	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.6	0.0	0.0	2.265		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: AS-1
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.15 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 818.0000 Kg/m³
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1220000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AS-1 .

. Name :
 . Type : Well .

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	9.9	43211.3	6481.4	6491.4	0.00	6526.38	44.27	9.9	43.211	6481.4	6491.4	22.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	9.9	44423.8	150.34	73.61	154.57	73.61	179.29	179.41	0.124	43.436	4.949	45.5	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	9.9	0.0	0.0	4.227		Choked by Optimiser	4347.79	99.85	0.00	0.15			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	9.9	6.66	818.0000	0.6800	0.00	0.00	0.00	0					

WELL SUMMARY #
#####

Label: AS-2
Name:
Mask: Included in system
Type: Gas Producer
Model: VLP / IPR intersection
Rate Model: Use volumes
PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

.....
. Constraints .
.....

dP Control Parameters #
#####

Delta Pressure drop: Calculated

IPR Layer details, layer 1 #
#####

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
IPR Type: C and n
PROSPER file:
Prosper layer number: 0
IPR Offset dP: No
Layer Pressure: 179.41 BARa
Layer Temperature: 78.00 deg C
Darcy Coefficient / C: 974.85937 Sm3/day/bar2
Non-Darcy Coefficient / n: 1.00
Permeability Compaction Correction:

Gravel Pack: No
WGR: 0.00 Sm3/Sm3
CGR: 0.00 Sm3/Sm3
Oil gravity: 818.0000 Kg/m3
Gas gravity: 0.6800 sp. gravity
Prediction Fractional Flow Model: From Rel Perm 1
H2S: 0.00 percent
CO2: 0.00 percent
N2: 0.00 percent
Water salinity: 0 ppm
Breakthrough Gas Saturation: percent
Breakthrough Gas Contact: m
Breakthrough Water Saturation: percent
Breakthrough Water Contact: m
Bottom Perf Depth: m
Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1220000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AS-2 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.5	1219680.6	0.0	280.5	0.00	1249.64	1249.64	280.5	1219.681	0.0	280.5	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.5	44423.8	150.34	73.61	151.57	73.61	175.89	179.41	3.521	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.5	0.0	0.0	1.234		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.5	4347.79	818.0000	0.6800	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: AS-3
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 818.0000 Kg/m³
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 1220000.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AS-3 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.5	1219680.6	0.0	280.5	0.00	1249.64	1249.64	280.5	1219.681	0.0	280.5	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.5	44423.8	150.34	73.61	151.57	73.61	175.89	179.41	3.521	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.5	0.0	0.0	1.234		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.5	4347.79	818.0000	0.6800	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: AV-1
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 818.0000 Kg/m³
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1220000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AV-1 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.6	1219869.5	0.0	280.6	0.00	1249.83	1249.83	280.6	1219.870	0.0	280.6	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.6	44423.8	150.08	73.61	151.57	73.61	175.89	179.41	3.522	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.6	0.0	0.0	1.494		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: AV-2
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 179.41 BARa
 Layer Temperature: 78.00 deg C
 Darcy Coefficient / C: 974.85937 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 818.0000 Kg/m³
 Gas gravity: 0.6800 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Askeladd\Askeladd.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 1220000.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR AV-2 .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	280.6	1219869.5	0.0	280.6	0.00	1249.83	1249.83	280.6	1219.870	0.0	280.6	630.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	280.6	44423.8	150.08	73.61	151.57	73.61	175.89	179.41	3.522	43.881	5.052	46.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	280.6	0.0	0.0	1.494		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	280.6	4347.79	818.0000	0.6800	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: D-1H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 760800.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR D-1H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	174.9	760411.4	0.0	174.9	0.00	848.54	848.54	174.9	760.411	0.0	174.9	428.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	174.9	48454.6	118.58	90.15	125.35	90.15	135.40	138.18	2.777	46.860	10.431	88.9	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	174.9	0.0	0.0	6.777		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	174.9	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: D-2H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 760800.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR D-2H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	175.3	762031.5	0.0	175.3	0.00	850.35	850.35	175.3	762.031	0.0	175.3	429.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	175.3	48454.6	118.58	90.15	125.35	90.15	135.40	138.18	2.783	46.862	10.431	89.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	175.3	0.0	0.0	6.771		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	175.3	4347.79	814.0000	0.7550	0.00	0.00	0.00						


```
#####
# WELL SUMMARY #
#####
```

Label: D-3 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 760800.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR D-3 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	175.3	762031.5	0.0	175.3	0.00	850.35	850.35	175.3	762.031	0.0	175.3	429.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	175.3	48454.6	118.58	90.15	125.35	90.15	135.40	138.18	2.783	46.862	10.431	89.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	175.3	0.0	0.0	6.771		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	175.3	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: E-2 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.15 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 760800.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR E-2 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	15.7	68452.1	10267.4	10283.1	0.00	10344.84	76.39	15.7	68.452	10267.4	10283.1	38.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	15.7	48454.6	120.37	90.15	127.78	90.15	137.93	138.18	0.248	46.367	10.210	88.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	15.7	0.0	0.0	7.409		Choked by Optimiser	4347.79	99.85	0.00	0.15			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	15.7	6.66	814.0000	0.7550	0.00	0.00	0.00	0					

```
#####
# WELL SUMMARY #
#####
```

Label: E-3 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 760800.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR E-3 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	174.9	760652.5	0.0	174.9	0.00	848.81	848.81	174.9	760.652	0.0	174.9	428.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	174.9	48454.6	120.37	90.15	125.35	90.15	135.40	138.18	2.778	46.861	10.431	88.9	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	174.9	0.0	0.0	4.979		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	174.9	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: E-4 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 760800.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR E-4 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	174.9	760652.5	0.0	174.9	0.00	848.81	848.81	174.9	760.652	0.0	174.9	428.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	174.9	48454.6	120.37	90.15	125.35	90.15	135.40	138.18	2.778	46.861	10.431	88.9	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	174.9	0.0	0.0	4.979		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	174.9	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: F-1 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
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 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 760800.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR F-1 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	175.1	761535.0	0.0	175.1	0.00	849.79	849.79	175.1	761.535	0.0	175.1	429.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	175.1	48454.6	118.63	90.15	125.35	90.15	135.40	138.18	2.781	46.861	10.431	88.9	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	175.1	0.0	0.0	6.722		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	175.1	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: F-4 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 138.18 BARa
 Layer Temperature: 91.40 deg C
 Darcy Coefficient / C: 1000.818 Sm3/day/bar2
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:
 Gravel Pack: No
 WGR: 0.00 Sm3/Sm3
 CGR: 0.00 Sm3/Sm3
 Oil gravity: 814.0000 Kg/m3
 Gas gravity: 0.7550 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H2S: 0.00 percent
 CO2: 0.00 percent
 N2: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
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VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Snohvit.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 760800.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR F-4 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	175.4	762547.9	0.0	175.4	0.00	850.92	850.92	175.4	762.548	0.0	175.4	429.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	175.4	48454.6	118.63	90.15	125.35	90.15	135.39	138.18	2.785	46.862	10.431	89.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	175.4	0.0	0.0	6.719		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	175.4	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: N-1 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 135.23 BARa
 Layer Temperature: 65.00 deg C
 Darcy Coefficient / C: 973.15421 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 804.0000 Kg/m³
 Gas gravity: 0.8040 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

Performance curve details #
#####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

VLP File Status #
#####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.vlp

VLP File Status: OK

Well Constraints Details #
#####

Maximum Temperature: deg C
Minimum PWF: BARa
Maximum Drawdown: bar
Well Optimisation Weighting:
Maximum liquid rate: Sm3/day
Maximum gas rate: 1260000.0 Sm3/day
Maximum oil rate: Sm3/day
Maximum water rate: Sm3/day
Max Erosional Velocity: m/sec

.....
. Abandonment Constraints: Entire Well .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

.....
. Abandonment Constraints: Layer 1 .
.....

Maximum Gas Oil Ratio: Sm3/Sm3
Maximum Water Cut: percent
Maximum Water Gas Ratio: Sm3/Sm3
Minimum liquid rate: Sm3/day
Minimum oil rate: Sm3/day
Minimum gas rate: Sm3/day

Tank Connections Details #
#####

Downtime #
#####

Downtime: 0.00 percent

Well Coning Details #
#####

Well Compositional Details #
#####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR N-1 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	294.1	1278828.1	0.0	294.1	0.00	1501.17	1501.17	294.1	1278.828	0.0	294.1	760.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	294.1	51088.0	121.32	64.14	121.84	64.14	130.28	135.23	4.949	38.326	5.954	62.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	294.1	0.0	0.0	0.520		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	294.1	4347.79	804.0000	0.8040	0.00	0.00	0.00						

```
#####
# WELL SUMMARY #
#####
```

Label: N-2 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 135.23 BARa
 Layer Temperature: 65.00 deg C
 Darcy Coefficient / C: 973.15421 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 804.0000 Kg/m³
 Gas gravity: 0.8040 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1260000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR N-2 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	294.1	1278828.1	0.0	294.1	0.00	1501.17	1501.17	294.1	1278.828	0.0	294.1	760.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	294.1	51088.0	121.32	64.14	121.84	64.14	130.28	135.23	4.949	38.326	5.954	62.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	294.1	0.0	0.0	0.520		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	294.1	4347.79	804.0000	0.8040	0.00	0.00	0.00						


```
#####
# WELL SUMMARY #
#####
```

Label: N-3 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 135.23 BARa
 Layer Temperature: 65.00 deg C
 Darcy Coefficient / C: 973.15421 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.15 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 804.0000 Kg/m³
 Gas gravity: 0.8040 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
------------------------------	---------------------	----------------	----------------	--------------	----------------------	----------------------------	----------------------	----------------------------	----------------	---------------	--------------

 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1260000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR N-3 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW

65.00	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.000	0.0	0.0	0.
-------	-----	-----	-----	-----	------	------	-----	-------	-----	-----	----

Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec	

65.00	0.0	45498.7	121.39	15.56	121.44	64.14	135.23	135.23	0.005	37.489	5.694	60.7
-------	-----	---------	--------	-------	--------	-------	--------	--------	-------	--------	-------	------

Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3

65.00	0.0	0.0	0.0	13789.514		Choked by Optimiser				
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Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm

65.00	0.0		850.0000					
-------	-----	--	----------	--	--	--	--	--

```
#####
# WELL SUMMARY #
#####
```

Label: N-4 H
 Name:
 Mask: Included in system
 Type: Gas Producer
 Model: VLP / IPR intersection
 Rate Model: Use volumes
 PROSPER file: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.Out

```
.....
. Constraints .
.....
```

```
#####
# dP Control Parameters #
#####
```

Delta Pressure drop: Calculated

```
#####
# IPR Layer details, layer 1 #
#####
```

Input Data Status: OK

Mask: Included in system

Layer Type: Gas
 IPR Type: C and n
 PROSPER file:
 Prosper layer number: 0
 IPR Offset dP: No
 Layer Pressure: 135.23 BARa
 Layer Temperature: 65.00 deg C
 Darcy Coefficient / C: 973.15421 Sm³/day/bar²
 Non-Darcy Coefficient / n: 1.00
 Permeability Compaction Correction:

Gravel Pack: No
 WGR: 0.00 Sm³/Sm³
 CGR: 0.00 Sm³/Sm³
 Oil gravity: 804.0000 Kg/m³
 Gas gravity: 0.8040 sp. gravity
 Prediction Fractional Flow Model: From Rel Perm 1
 H₂S: 0.00 percent
 CO₂: 0.00 percent
 N₂: 0.00 percent
 Water salinity: 0 ppm
 Breakthrough Gas Saturation: percent
 Breakthrough Gas Contact: m
 Breakthrough Water Saturation: percent
 Breakthrough Water Contact: m
 Bottom Perf Depth: m
 Top Perf Depth: m

 # Performance curve details #
 #####

Manifold Pressure BARa	Gas Rate Sm3/day	WGR Sm3/Sm3	CGR Sm3/Sm3	FBHP BARa	Oil gravity Kg/m3	Gas gravity sp. gravity	Temperature deg C	H2S salinity percent	CO2 percent	N2 percent	Water ppm
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 # VLP File Status #
 #####

VLP File Name: C:\Users\Yunus\Dropbox\Masters Thesis technical work\Petex Files\20170217\Albetross\Albetross.vlp

VLP File Status: OK

 # Well Constraints Details #
 #####

Maximum Temperature: deg C
 Minimum PWF: BARa
 Maximum Drawdown: bar
 Well Optimisation Weighting:
 Maximum liquid rate: Sm3/day
 Maximum gas rate: 1260000.0 Sm3/day
 Maximum oil rate: Sm3/day
 Maximum water rate: Sm3/day
 Max Erosional Velocity: m/sec

.....
 . Abandonment Constraints: Entire Well .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

.....
 . Abandonment Constraints: Layer 1 .

Maximum Gas Oil Ratio: Sm3/Sm3
 Maximum Water Cut: percent
 Maximum Water Gas Ratio: Sm3/Sm3
 Minimum liquid rate: Sm3/day
 Minimum oil rate: Sm3/day
 Minimum gas rate: Sm3/day

 # Tank Connections Details #
 #####

 # Downtime #
 #####

Downtime: 0.00 percent

 # Well Coning Details #
 #####

 # Well Compositional Details #
 #####

.....
 . Layer 1 .

No Composition Data:

.....
 . SOLVE NETWORK REPORT FOR N-4 H .

. Name :
 . Type : Well

Separator 'Sep1' pressure	Oil Rate	Gas Rate	Water Rate	Liquid Rate	Revenue Flow Rate	Mass Flow Rate	HC Mass Rate	Average Oil Water Rate	Average Gas Liquid Rate	Average Heating	Average	Average	Gross
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	Sm3/day	MW
65.00	294.1	1278828.1	0.0	294.1	0.00	1501.17	1501.17	294.1	1278.828	0.0	294.1	760.	
Separator 'Sep1' pressure	Oil Rate	Specific Gross Heating Value	Pressure	Temperature Pressure	W H Temperature	W H Pressure	B H Pressure	Reservoir	Drawdown Velocity	Erosional Velocity	Mixture	C Factor	
BARa	Sm3/day	kJ/sm3	BARa	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
65.00	294.1	51088.0	121.32	64.14	121.84	64.14	130.28	135.23	4.949	38.326	5.954	62.0	
Separator 'Sep1' pressure	Oil Rate	Erosion Rate	Corrosion Rate	dP Choke	Choke Size	Status	GOR	WCT	CGR	WGR			
BARa	Sm3/day	mm/year	mm/year	bar	m		Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3			
65.00	294.1	0.0	0.0	0.520		Choked by Optimiser	4347.79	0.00	0.00	0.00			
Separator 'Sep1' pressure	Oil Rate	GLR	Oil gravity	Gas gravity	H2S	CO2 salinity	N2	Water					
BARa	Sm3/day	Sm3/Sm3	Kg/m3	sp. gravity	percent	percent	percent	ppm					
65.00	294.1	4347.79	804.0000	0.8040	0.00	0.00	0.00						

RESULTS - SYSTEM TOTALS #
#####

Title: Production
System type: Production
Optimisation method: Production
PVT model: Black Oil
Prediction: On
Prediction method: Pressure and temperature
Wax or Hydrate warning: Off
Water Vapour: No Calculations
Temperature Model: Rough approximation
Calculate Well Choke DeltaT: Off
Use Default Correlation: Off

Separator 'Sep1' pressure	Oil produced	Gas produced	Water produced	Liquid produced	GOR	WCT	CGR	WGR	GLR	Oil gravity	Gas gravity	H2S	
BARa	Sm3/day	Sm3/day	Sm3/day	Sm3/day	Sm3/Sm3	percent	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Sm3/Sm3	Kg/m3	sp. gravity	percent

65.00	4097.7	17816946.1	16748.8	20846.5	4347.79	80.34	0.00	0.00	854.63	813.7735	0.7294	0.0
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Separator 'Sep1' pressure	Oil produced	CO2	N2	Water salinity	Revenue Heating Value	Gross Heating Value	Specific Gross
BARa	Sm3/day	percent	percent	ppm	MMUS\$/day	MW	kJ/sm3

65.00	4097.7	0.00	0.00	0	0.00	9757.6	47080.1
-------	--------	------	------	---	------	--------	---------

++++++
+ End of report +
++++++