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# 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
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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 Sm3/day	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 #  
 #####

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





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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm
65.00	524.4	0.00	0.00	

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 . 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	561.2	2439937.4	0.0	561.2	0.00	2499.87	2499.87	561.2	2439.937	0.0	561.2	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	561.2	44423.8	114.68	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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 . SOLVE NETWORK REPORT FOR J5 .  
 . Name :  
 . Type : Joint  
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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	349.5	1519543.3	0.0	349.5	0.00	1695.65	1695.65	349.5	1519.543	0.0	349.5	856.	
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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	349.5	48454.6	88.30	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	349.5	0.00	0.00	
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 . SOLVE NETWORK REPORT FOR J6 .  
 . Name :  
 . Type : Joint  
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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	1156.8	5029683.5	0.0	1156.8	0.00	5904.17	5904.17	1156.8	5029.683	0.0	1156.8	2989.	
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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	1156.8	51088.0	95.46	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	1156.8	0.00	0.00	
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 . SOLVE NETWORK REPORT FOR J7 .  
 . Name :  
 . Type : Joint  
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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	2440194.7	0.0	561.2	0.00	2500.13	2500.13	561.2	2440.195	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	113.69	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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 . SOLVE NETWORK REPORT FOR J8 .  
 . Name :  
 . Type : Joint  
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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	2242.4	9749848.8	0.0	2242.4	0.00	9989.33	9989.33	2242.4	9749.849	0.0	2242.4	5038.	
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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	2242.4	44423.8	112.94	48.62	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	2242.4	0.00	0.00	
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 . SOLVE NETWORK REPORT FOR J9 .  
 . 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	1120.0	4869717.1	0.0	1120.0	0.00	4989.33	4989.33	1120.0	4869.717	0.0	1120.0	2516.	
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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	1120.0	44423.8	114.02	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	1120.0	0.00	0.00	
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. 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	4797.5	20859624.9	0.0	4797.5	0.00	22678.24	22678.24	4797.5	20859.625	0.0	4797.5	11454.
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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	4797.5	47205.6	87.74	36.84	4347.79	0.00	0.00	0.00	4347.79	813.4584	0.7318	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	4797.5	0.00	0.00
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.....  
 . SOLVE NETWORK REPORT FOR Ask Head .  
 . Name : .  
 . Type : Pipe .  
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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 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	2242.4	9749848.8	0.0	2242.4	0.00	9989.33	9989.33	2242.4	9749.849	0.0	2242.4	5038.
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	2242.4	44423.8	112.94	48.62	87.74	19.56	25.203	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	2242.4	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00	6.943	60.6	
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction	DP Acceleration							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	2242.4	112.94	0.000	25.190	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 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	1120.0	4869716.9	0.0	1120.0	0.00	4989.33	4989.33	1120.0	4869.717	0.0	1120.0	2516.	
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	1120.0	44423.8	114.02	73.61	112.94	66.85	1.072	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	1120.0	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00	5.248	45.2		
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
BARa	Sm3/day	BARa	bar	bar	bar								
65.00	1120.0	114.02	-0.000	1.072	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	561.2	2439937.3	0.0	561.2	0.00	2499.87	2499.87	561.2	2439.937	0.0	561.2	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	561.2	44423.8	114.68	73.61	112.94	19.09	1.739	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	561.2	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00	2.610	22.6		
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
BARa	Sm3/day	BARa	bar	bar	bar								
65.00	561.2	114.68	-0.000	1.739	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	524.4	2280275.4	0.0	524.4	0.00	2544.55	2544.55	524.4	2280.275	0.0	524.4	1285.
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	524.4	48454.6	88.23	90.15	87.74	67.78	0.494	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	ppm	m/sec	
	65.00	524.4	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00	3.367	25.9	
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
	BARa	Sm3/day	BARa	bar	bar	bar							
	65.00	524.4	88.23	-0.000	0.494	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	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	349.5	1519543.3	0.0	349.5	0.00	1695.65	1695.65	349.5	1519.543	0.0	349.5	856.	
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	349.5	48454.6	88.30	90.15	87.74	29.87	0.557	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	349.5	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00	2.240	17.2		
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP								
BARa	Sm3/day	BARa	bar	bar	bar								
65.00	349.5	88.30	-0.000	0.556	0.000								

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 . SOLVE NETWORK REPORT FOR Temp N H1 .  
 . Name : .  
 . Type : Pipe .  
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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 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	1156.8	5029682.8	0.0	1156.8	0.00	5904.17	5904.17	1156.8	5029.683	0.0	1156.8	2989.
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	1156.8	51088.0	95.46	64.14	87.74	41.39	7.723	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	1156.8	0.00	0.00	4347.79	804.0000	0.8040	0.00	0.00	0.00	5.774	51.6	
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction	DP							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	1156.8	95.46	0.000	7.720	0.003							



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 . SOLVE NETWORK REPORT FOR TRUNK LINE .  
 . Name : .  
 . Type : Pipe .  
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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 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	4797.5	20859624.9	0.0	4797.5	0.00	22678.24	22678.24	4797.5	20859.625	0.0	4797.5	11454.
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	4797.5	47205.6	120.27	71.84	65.00	7.14	55.274	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	4797.5	0.00	0.00	4347.79	813.4584	0.7318	0.00	0.00	0.00	7.537	60.6	
Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction	DP Acceleration							
BARa	Sm3/day	BARa	bar	bar	bar							
65.00	4797.5	120.27	4.211	51.039	0.025							

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 . SOLVE NETWORK REPORT FOR Sep1 .  
 . Name :  
 . Type : Separator  
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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	4797.5	20859624.9	0.0	4797.5	0.00	22678.24	22678.24	4797.5	20859.625	0.0	4797.5	11454.	
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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	4797.5	47205.6	65.00	7.14	4347.79	0.00	0.00	0.00	4347.79	813.4584	0.7318	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	4797.5	0.00	0.00	0.0	20536520.9	0.0	20.00	
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 . SOLVE NETWORK REPORT FOR AG-1 .  
 . Name : .  
 . Type : Well .  
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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	
	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	279.8	1216489.4	0.0	279.8	0.00	1246.37	1246.37	279.8	1216.489	0.0	279.8	628.
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	279.8	44423.8	114.02	73.61	151.58	73.61	175.90	179.41	3.512	43.880	5.051	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	279.8	0.0	0.0	37.566	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	279.8	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 .  
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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 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	280.6	1220097.4	0.0	280.6	0.00	1250.07	1250.07	280.6	1220.097	0.0	280.6	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	280.6	44423.8	113.69	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	37.877		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 .  
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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 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	280.6	1220097.4	0.0	280.6	0.00	1250.07	1250.07	280.6	1220.097	0.0	280.6	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	280.6	44423.8	113.69	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	37.877		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 .  
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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	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	280.6	1220248.9	0.0	280.6	0.00	1250.22	1250.22	280.6	1220.249	0.0	280.6	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	280.6	44423.8	114.02	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	37.556	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-2 .  
 . Name : .  
 . Type : Well .  
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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	
	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	279.8	1216489.4	0.0	279.8	0.00	1246.37	1246.37	279.8	1216.489	0.0	279.8	628.
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	279.8	44423.8	114.02	73.61	151.58	73.61	175.90	179.41	3.512	43.880	5.051	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	279.8	0.0	0.0	37.566	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	279.8	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 .  
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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	
	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	279.8	1216489.4	0.0	279.8	0.00	1246.37	1246.37	279.8	1216.489	0.0	279.8	628.
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	279.8	44423.8	114.02	73.61	151.58	73.61	175.90	179.41	3.512	43.880	5.051	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	279.8	0.0	0.0	37.566	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	279.8	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 .  
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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	
	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	1219968.7	0.0	280.6	0.00	1249.93	1249.93	280.6	1219.969	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	114.68	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	36.890	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 .  
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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	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	280.6	1219968.7	0.0	280.6	0.00	1249.93	1249.93	280.6	1219.969	0.0	280.6	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	280.6	44423.8	114.68	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	36.890	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 .  
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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	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	175.0	760692.4	0.0	175.0	0.00	848.85	848.85	175.0	760.692	0.0	175.0	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	deg C	BARa	deg C	BARa	BARa	bar	m/sec	m/sec		
	65.00	175.0	48454.6	88.23	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	175.0	0.0	0.0	37.119		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	175.0	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 .  
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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	174.7	759791.0	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	4347.79	814.0000	0.7550	0.00	0.00	0.00						



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 . SOLVE NETWORK REPORT FOR D-3 H .  
 . Name :  
 . Type : Well  
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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	174.7	759791.0	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	4347.79	814.0000	0.7550	0.00	0.00	0.00						

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 . SOLVE NETWORK REPORT FOR E-2 H .  
 . Name :  
 . Type : Well  
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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 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	175.0	760692.6	0.0	175.0	0.00	848.85	848.85	175.0	760.693	0.0	175.0	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	175.0	48454.6	88.23	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	175.0	0.0	0.0	37.119	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	175.0	4347.79	814.0000	0.7550	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR E-3 H .  
 . Name :  
 . Type : Well  
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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	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	174.7	759791.3	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	428.
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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122	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	174.7	4347.79	814.0000	0.7550	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR E-4 H .  
 . Name :  
 . Type : Well  
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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	174.7	759791.3	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	4347.79	814.0000	0.7550	0.00	0.00	0.00						

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 . SOLVE NETWORK REPORT FOR F-1 H .  
 . Name :  
 . Type : Well  
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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	
	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	174.7	759771.6	0.0	174.7	0.00	847.82	847.82	174.7	759.772	0.0	174.7	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	174.7	48454.6	88.30	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.059	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	174.7	4347.79	814.0000	0.7550	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR F-4 H .  
 . Name :  
 . Type : Well  
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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	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	174.7	759771.6	0.0	174.7	0.00	847.82	847.82	174.7	759.772	0.0	174.7	428.
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	174.7	48454.6	88.30	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.059	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	174.7	4347.79	814.0000	0.7550	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR N-1 H .  
 . Name :  
 . Type : Well  
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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	MMUS\$/day	tonne/day	tonne/day	Sm3/day	1000Sm3/d	Sm3/day	Sm3/day	MW	
	65.00	289.7	1259594.9	0.0	289.7	0.00	1478.59	1478.59	289.7	1259.595	0.0	289.7	748.
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	289.7	51088.0	95.46	64.14	121.91	64.14	130.36	135.23	4.874	38.313	5.950	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	289.7	0.0	0.0	26.447	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	289.7	4347.79	804.0000	0.8040	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR N-2 H .  
 . Name :  
 . Type : Well  
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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	
	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	289.7	1259594.9	0.0	289.7	0.00	1478.59	1478.59	289.7	1259.595	0.0	289.7	748.
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	289.7	51088.0	95.46	64.14	121.91	64.14	130.36	135.23	4.874	38.313	5.950	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	289.7	0.0	0.0	26.447	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	289.7	4347.79	804.0000	0.8040	0.00	0.00	0.00					



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 . SOLVE NETWORK REPORT FOR N-3 H .  
 . Name :  
 . Type : Well  
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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	288.6	1254625.6	0.0	288.6	0.00	1472.76	1472.76	288.6	1254.626	0.0	288.6	745.
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	288.6	51088.0	95.46	64.14	121.93	64.14	130.38	135.23	4.854	38.310	5.949	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	288.6	0.0	0.0	26.465	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	288.6	4347.79	804.0000	0.8040	0.00	0.00	0.00					

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 . SOLVE NETWORK REPORT FOR N-4 H .  
 . Name :  
 . Type : Well  
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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	
	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	288.8	1255868.0	0.0	288.8	0.00	1474.22	1474.22	288.8	1255.868	0.0	288.8	746.
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	288.8	51088.0	95.46	64.14	121.92	64.14	130.37	135.23	4.859	38.311	5.949	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	288.8	0.0	0.0	26.461	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	288.8	4347.79	804.0000	0.8040	0.00	0.00	0.00					

#####  
 # RESULTS - 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

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	524.4	2280274.4	0.0	524.4	0.00	2544.54	2544.54	524.4	2280.274	0.0	524.4	1285.	
-------	-------	-----------	-----	-------	------	---------	---------	-------	----------	-----	-------	-------	--

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	524.4	48454.6	88.23	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	524.4	0.00	0.00	
-------	-------	------	------	--

#####  
# 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	561.2	2439937.4	0.0	561.2	0.00	2499.87	2499.87	561.2	2439.937	0.0	561.2	1260.	
-------	-------	-----------	-----	-------	------	---------	---------	-------	----------	-----	-------	-------	--

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	114.68	73.61	4347.79	0.00	0.00	0.00	4347.79	818.0000	0.6800	0.0
-------	-------	---------	--------	-------	---------	------	------	------	---------	----------	--------	-----

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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#####  
# 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	4797.5	20859624.9	0.0	4797.5	0.00	22678.24	22678.24	4797.5	20859.625	0.0	4797.5	11454.	
-------	--------	------------	-----	--------	------	----------	----------	--------	-----------	-----	--------	--------	--

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	4797.5	47205.6	120.27	71.84	4347.79	0.00	0.00	0.00	4347.79	813.4584	0.7318	0.0
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Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	4797.5	0.00	0.00	
-------	--------	------	------	--





#####  
# JOINT SUMMARY #  
#####

Label: J4  
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 J4 .  
. 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	524.4	2280275.2	0.0	524.4	0.00	2544.55	2544.55	524.4	2280.275	0.0	524.4	1285.	
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	524.4	48454.6	88.23	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	524.4	0.00	0.00										

#####  
# 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	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	Water Rate	Liquid Rate	Heating Value	Sm3/day	MW
65.00	349.5	1519543.3	0.0	349.5	0.00	1695.65	1695.65	349.5	1519.543	0.0	349.5	856.
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	349.5	48454.6	88.30	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	349.5	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	1156.8	5029683.5	0.0	1156.8	0.00	5904.17	5904.17	1156.8	5029.683	0.0	1156.8	2989.	
-------	--------	-----------	-----	--------	------	---------	---------	--------	----------	-----	--------	-------	--

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	1156.8	51088.0	95.46	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	1156.8	0.00	0.00	
-------	--------	------	------	--

#####  
# 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	2440194.7	0.0	561.2	0.00	2500.13	2500.13	561.2	2440.195	0.0	561.2	1261.	
-------	-------	-----------	-----	-------	------	---------	---------	-------	----------	-----	-------	-------	--

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	113.69	73.61	4347.79	0.00	0.00	0.00	4347.79	818.0000	0.6800	0.0
-------	-------	---------	--------	-------	---------	------	------	------	---------	----------	--------	-----

Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	561.2	0.00	0.00	
-------	-------	------	------	--



#####  
# JOINT SUMMARY #  
#####

Label: J9  
Name:  
Mask: Included in system

#####  
# CONSTRAINTS #  
#####

Maximum water rate Sm3/day  
Maximum gas rate 4870000.0 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 J9 .  
. 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	1120.0	4869717.1	0.0	1120.0	0.00	4989.33	4989.33	1120.0	4869.717	0.0	1120.0	2516.	
-------	--------	-----------	-----	--------	------	---------	---------	--------	----------	-----	--------	-------	--

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	1120.0	44423.8	114.02	73.61	4347.79	0.00	0.00	0.00	4347.79	818.0000	0.6800	0.0
-------	--------	---------	--------	-------	---------	------	------	------	---------	----------	--------	-----

Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	1120.0	0.00	0.00	
-------	--------	------	------	--

#####  
# JOINT SUMMARY #  
#####

Label: PLEM  
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 PLEM .  
. 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	4797.5	20859624.9	0.0	4797.5	0.00	22678.24	22678.24	4797.5	20859.625	0.0	4797.5	11454.	
-------	--------	------------	-----	--------	------	----------	----------	--------	-----------	-----	--------	--------	--

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	4797.5	47205.6	87.74	36.84	4347.79	0.00	0.00	0.00	4347.79	813.4584	0.7318	0.0
-------	--------	---------	-------	-------	---------	------	------	------	---------	----------	--------	-----

Separator 'Sep1' pressure	Oil Rate	CO2	N2 salinity	Water
BARa	Sm3/day	percent	percent	ppm

65.00	4797.5	0.00	0.00	
-------	--------	------	------	--

#####  
# 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
------------------------------	----------------------------------	------------------------	--------------------------------	-------------------------------	--------------------	----------------------------------	-----------------------------------	------------------	----------------	----------------	---------------

.....  
. 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 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	2242.4	9749848.8	0.0	2242.4	0.00	9989.33	9989.33	2242.4	9749.849	0.0	2242.4	5038.
-------	--------	-----------	-----	--------	------	---------	---------	--------	----------	-----	--------	-------

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	2242.4	44423.8	112.94	48.62	87.74	19.56	25.203		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	2242.4	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00	6.943	60.6
-------	--------	------	------	---------	----------	--------	------	------	------	-------	------

Separator 'Sep1' pressure	Oil Rate	Max line pressure	DP Gravity	DP Friction Acceleration	DP
BARa	Sm3/day	BARa	bar	bar	bar

65.00	2242.4	112.94	0.000	25.190	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
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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 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	
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	2440194.7	0.0	561.2	0.00	2500.13	2500.13	561.2	2440.195	0.0	561.2	1261.
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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	561.2	44423.8	113.69	73.61	112.94	41.76	0.751		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	561.2	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00		2.635	22.7
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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	113.69	-0.000	0.751	0.000
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#####  
# 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
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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-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	1120.0	4869716.9	0.0	1120.0	0.00	4989.33	4989.33	1120.0	4869.717	0.0	1120.0	2516.
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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	1120.0	44423.8	114.02	73.61	112.94	66.85	1.072		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	1120.0	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00		5.248	45.2
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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	1120.0	114.02	-0.000	1.072	0.000
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#####  
# 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	Inside Diameter m	Roughness	K Value Type	Fitting
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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	561.2	2439937.3	0.0	561.2	0.00	2499.87	2499.87	561.2	2439.937	0.0	561.2	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	561.2	44423.8	114.68	73.61	112.94	19.09	1.739		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	561.2	0.00	0.00	4347.79	818.0000	0.6800	0.00	0.00	0.00		2.610	22.6
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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	561.2	114.68	-0.000	1.739	0.000
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#####  
# 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 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	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	524.4	2280275.4	0.0	524.4	0.00	2544.55	2544.55	524.4	2280.275	0.0	524.4	1285.
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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	524.4	48454.6	88.23	90.15	87.74	67.78	0.494		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	524.4	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00		3.367	25.9
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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	524.4	88.23	-0.000	0.494	0.000
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#####  
# 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 ppm	Water percent	H2S percent	CO2 percent	N2 percent
------------------------------	----------------------------------	------------------------	--------------------------------	-------------------------------	--------------------	----------------------------------	--------------------	------------------	----------------	----------------	---------------

.....  
. 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	349.5	1519543.3	0.0	349.5	0.00	1695.65	1695.65	349.5	1519.543	0.0	349.5	856.
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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	349.5	48454.6	88.30	90.15	87.74	29.87	0.557		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	349.5	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00		2.240	17.2
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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	349.5	88.30	-0.000	0.556	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	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 .  
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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 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	1156.8	5029682.8	0.0	1156.8	0.00	5904.17	5904.17	1156.8	5029.683	0.0	1156.8	2989.
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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	1156.8	51088.0	95.46	64.14	87.74	41.39	7.723		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	1156.8	0.00	0.00	4347.79	804.0000	0.8040	0.00	0.00	0.00		5.774	51.6
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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	1156.8	95.46	0.000	7.720	0.003
-------	--------	-------	-------	-------	-------

#####  
# 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 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 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	524.4	2280274.6	0.0	524.4	0.00	2544.54	2544.54	524.4	2280.275	0.0	524.4	1285.
-------	-------	-----------	-----	-------	------	---------	---------	-------	----------	-----	-------	-------

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	524.4	48454.6	88.23	90.15	87.74	67.78	0.494		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	524.4	0.00	0.00	4347.79	814.0000	0.7550	0.00	0.00	0.00		3.367	25.9
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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	524.4	88.23	-0.000	0.494	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
------------------------------	----------------------------------	------------------------	--------------------------------	-------------------------------	--------------------	----------------------	----------------------------	--------------	----------------	----------------	---------------

.....  
. 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	





#####  
# 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	4797.5	20859624.9	0.0	4797.5	0.00	22678.24	22678.24	4797.5	20859.625	0.0	4797.5	11454.
-------	--------	------------	-----	--------	------	----------	----------	--------	-----------	-----	--------	--------

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	4797.5	47205.6	65.00	7.14	4347.79	0.00	0.00	0.00	4347.79	813.4584	0.7318	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	4797.5	0.00	0.00		0.0	20536520.9	0.0	20.00
-------	--------	------	------	--	-----	------------	-----	-------

```
#####
# 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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 818.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.6800 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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	279.8	1216489.4	0.0	279.8	0.00	1246.37	1246.37	279.8	1216.489	0.0	279.8	628.	
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	279.8	44423.8	114.02	73.61	151.58	73.61	175.90	179.41	3.512	43.880	5.051	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	279.8	0.0	0.0	37.566		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	279.8	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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 818.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.6800 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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	1220097.4	0.0	280.6	0.00	1250.07	1250.07	280.6	1220.097	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	113.69	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	37.877		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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 818.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.6800 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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 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	1220097.4	0.0	280.6	0.00	1250.07	1250.07	280.6	1220.097	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	113.69	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	37.877		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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 818.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.6800 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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 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 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	280.6	1220248.9	0.0	280.6	0.00	1250.22	1250.22	280.6	1220.249	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	114.02	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	37.556		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-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
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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 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	279.8	1216489.4	0.0	279.8	0.00	1246.37	1246.37	279.8	1216.489	0.0	279.8	628.	
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	279.8	44423.8	114.02	73.61	151.58	73.61	175.90	179.41	3.512	43.880	5.051	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	279.8	0.0	0.0	37.566		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	279.8	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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 818.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.6800 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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 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	279.8	1216489.4	0.0	279.8	0.00	1246.37	1246.37	279.8	1216.489	0.0	279.8	628.	
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	279.8	44423.8	114.02	73.61	151.58	73.61	175.90	179.41	3.512	43.880	5.051	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	279.8	0.0	0.0	37.566		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	279.8	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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
Non-Darcy Coefficient / n: 1.00  
Permeability Compaction Correction:

Gravel Pack: No  
WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
Oil gravity: 818.0000 Kg/m<sup>3</sup>  
Gas gravity: 0.6800 sp. gravity  
Prediction Fractional Flow Model: From Rel Perm 1  
H<sub>2</sub>S: 0.00 percent  
CO<sub>2</sub>: 0.00 percent  
N<sub>2</sub>: 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 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	1219968.7	0.0	280.6	0.00	1249.93	1249.93	280.6	1219.969	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	114.68	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	36.890		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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 818.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.6800 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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 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	1219968.7	0.0	280.6	0.00	1249.93	1249.93	280.6	1219.969	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	114.68	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	36.890		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 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	175.0	760692.4	0.0	175.0	0.00	848.85	848.85	175.0	760.692	0.0	175.0	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	175.0	48454.6	88.23	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	175.0	0.0	0.0	37.119		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	175.0	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	174.7	759791.0	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	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	174.7	759791.0	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	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: 0.00 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-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	175.0	760692.6	0.0	175.0	0.00	848.85	848.85	175.0	760.693	0.0	175.0	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	175.0	48454.6	88.23	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	175.0	0.0	0.0	37.119		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	175.0	4347.79	814.0000	0.7550	0.00	0.00	0.00						

```
#####
# 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	174.7	759791.3	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	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	174.7	759791.3	0.0	174.7	0.00	847.85	847.85	174.7	759.791	0.0	174.7	428.	
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	174.7	48454.6	88.23	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.122		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	174.7	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	174.7	759771.6	0.0	174.7	0.00	847.82	847.82	174.7	759.772	0.0	174.7	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	174.7	48454.6	88.30	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.059		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	174.7	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	174.7	759771.6	0.0	174.7	0.00	847.82	847.82	174.7	759.772	0.0	174.7	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	174.7	48454.6	88.30	90.15	125.36	90.15	135.41	138.18	2.775	46.860	10.430	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	174.7	0.0	0.0	37.059		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	174.7	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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 804.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.8040 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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	289.7	1259594.9	0.0	289.7	0.00	1478.59	1478.59	289.7	1259.595	0.0	289.7	748.	
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	289.7	51088.0	95.46	64.14	121.91	64.14	130.36	135.23	4.874	38.313	5.950	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	289.7	0.0	0.0	26.447		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	289.7	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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 804.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.8040 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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-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	289.7	1259594.9	0.0	289.7	0.00	1478.59	1478.59	289.7	1259.595	0.0	289.7	748.	
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	289.7	51088.0	95.46	64.14	121.91	64.14	130.36	135.23	4.874	38.313	5.950	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	289.7	0.0	0.0	26.447		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	289.7	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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 804.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.8040 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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-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	288.6	1254625.6	0.0	288.6	0.00	1472.76	1472.76	288.6	1254.626	0.0	288.6	745.	
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	288.6	51088.0	95.46	64.14	121.93	64.14	130.38	135.23	4.854	38.310	5.949	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	288.6	0.0	0.0	26.465		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	288.6	4347.79	804.0000	0.8040	0.00	0.00	0.00						

```
#####
# 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 Sm<sup>3</sup>/day/bar<sup>2</sup>  
 Non-Darcy Coefficient / n: 1.00  
 Permeability Compaction Correction:

Gravel Pack: No  
 WGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 CGR: 0.00 Sm<sup>3</sup>/Sm<sup>3</sup>  
 Oil gravity: 804.0000 Kg/m<sup>3</sup>  
 Gas gravity: 0.8040 sp. gravity  
 Prediction Fractional Flow Model: From Rel Perm 1  
 H<sub>2</sub>S: 0.00 percent  
 CO<sub>2</sub>: 0.00 percent  
 N<sub>2</sub>: 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	288.8	1255868.0	0.0	288.8	0.00	1474.22	1474.22	288.8	1255.868	0.0	288.8	746.	
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	288.8	51088.0	95.46	64.14	121.92	64.14	130.37	135.23	4.859	38.311	5.949	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	288.8	0.0	0.0	26.461		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	288.8	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	4797.5	20859625.7	0.0	4797.5	4347.79	0.00	0.00	0.00	4347.79	813.4584	0.7318	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	4797.5	0.00	0.00	0	0.00	11454.4	47205.6
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 + End of report +  
 ++++++