



Customer: Chevron Canada Resources
Wellname: Chevron et al Fort Liard
Well Location: K - 29
Test Dates: May 04 - 07, 1999
Formation: Nahanni Dolomite

File Name: GP99-048, CHEV368.FLD
Supervisors: R. Rutherford
Customer Reps: C. Triomphe, BJ Kalsi
Test Unit/Tank: TU#29, TK#25
Test Type: Production Log

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Norward Head Office

GENERAL INFORMATION

Client Information:

Company: Chevron Canada Resources

Contact:

Phone: Fax: e-mail:

Site Information:

Contact: Curtis Triomphe, B.J Kalsi

Phone: Fax: e-mail:

Well Information:

Name: Chevron et al Fort Liard

Operator:

Location-Downhole: 29

Location-Surface:

Test Information:

Company: Norward Energy Services

Representative: Ron Norgaard, Paul Ringrose

Supervisor: R. Rutherford

Test Type: Production Log

Job Number: GP99-048

Test Unit: TK #25 T.U #29

Start Date: 1999/05/04

Start Time: 17:00:00

End Date: 1999/04/07

End Time: 20:00:00

Report Date: 1999/05/14

Prepared By: Cindy Brunt

Remarks:

Qualified By:

Flow well at several rates for Lee Tool production log.

No samples taken at customer's request.

FieldNotes

Gas Meter 1

Meter Type:	Orifice Meter
Meter Size:	147.02 mm
Previous Gas Production:	0.000 10 ³ m ³
Tap Type:	Flange
Tap Location:	Downstream
Gas Gravity (G):	0.740
CO ₂ :	17.53 %
H ₂ S:	0.40 %
N ₂ :	3.49 %
Critical Temperature (T _C):	209.49 K
Critical Pressure (P _C):	5099.74 kPa

Oil Meter1

Meter Type:	Produced Volume
Measurement Type:	Cumulative
Previous Oil Production:	0.000 m ³
Previous Water Production:	0.000 m ³

Oil Meter2

Meter Type:	Produced Volume
Measurement Type:	Incremental
Previous Oil Production:	0.000 m ³
Previous Water Production:	0.000 m ³

FieldNotes

Water Meter1

Meter Type:

Measurement type:

Previous Water Production:

Produced Volume

Incremental

0.000 m³

FieldNotes Field Measurements

	Date	Clk Tim	Tbg Pres	Csg Pres	WHT	Orif1	Static1	Diff1	Temp1	Gas Rate	Cum. Gas	Fld Gain	BSW	H2O Gain	H2O Rate	Cum. H2O	Oil Gain	Oil Rate	Cum. Oil	pH	Salinity ppm
	yyyy/mm/d	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³ /d	m ³	m ³	m ³ /d	m ³		
1	1999/05/04	17:00:00	Arrive on location and ready test equipment.																		
2	1999/05/05	07:00:00	Pre-heat line heater.																		
3		09:00:00	Hold pre-job safety meeting.																		
4		10:30:00	Start in hole with E line for production log.																		
5		13:45:00	Record tubing pressures. Annulus on vacuum.																		
6		13:45:00	22550	0																	
7		13:45:00				0.000	0	0.0	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
8		14:00:00	Open choke to flow on 10.32mm.																		
9		14:02:00	Dri-flow meter in service with a 107.95mm orifice plate.																		
10		14:05:00	21410	0	10.0	107.950	1150	15.0	18.0	361.69	5.02										
11		14:10:00	20300	0	12.0	107.950	1100	14.6	18.0	349.40	6.26										
12		14:15:00	20290	0	18.0	107.950	1080	13.0	14.0	329.29	7.43										
13		14:30:00	20430	0	19.0	107.950	1070	13.2	13.0	330.99	10.87	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
14		14:45:00	20630	0	20.0	107.950	1070	13.3	11.0	333.52	14.33										
15		15:00:00	20730	0	21.0	107.950	1070	13.5	8.0	337.98	17.83										
16		15:00:00	No fluid produced.																		
17		15:10:00	Shut in well to clear obstruction in wireline lubricator. Record buildsups.																		
18		15:10:00				0.000	0	0.0	0.0	0.00	17.83	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
19		15:20:00	22375																		
20		15:25:00	22380																		
21		15:30:00	22385																		
22		16:00:00	22385																		
23		16:00:00	Begin injecting methanol down tubing.																		
24	1999/05/05	18:00:00	22385																		
25		20:00:00	22385																		
26		20:30:00	Wireline able to pull out of hole.																		
27		21:15:00	Shut down methanol. (150) litres injected.																		
28		21:30:00	Wireline at surface, shut in master valve and bleed off lubricator.																		
29		22:00:00	Secure well and shut down for night.																		
30		22:00:01				0.000	0	0.0	0.0	0.00	17.83	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
31	1999/05/06	07:00:00	Rig up wireline to run in and do production log.																		
32		07:00:00	Pre-heat line heater.																		
33		14:29:58				0.000	0	0.0	0.0	0.00	17.83	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
34		14:30:00	Open well and start in hole.																		
35		15:00:00	Record tubing pressure. Annulus on vacuum. Begin injecting methanol down tubing.																		
36		15:00:00	22400	0																	
37		17:00:00	Pull out of hole, problems with line truck.																		
38	1999/05/06	18:00:00	Shut down methanol injection, (40) litres injected.																		
39		18:00:01				0.000	0	0.0	0.0	0.00	17.83	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
40	1999/05/07	06:00:00	Ready test equipment, for production log.																		
41		09:59:58				0.000	0	0.0	0.0	0.00	17.83	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
42		10:00:00	Open well and start in hole.																		
43		10:30:00	Record tubing pressures, annulus on vacuum.																		
44		10:30:00	22330	0																	
45		14:20:00	22250	0																	
46		14:24:29				0.000	0	0.067e-15	0.00	17.83	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
47		14:25:00	Open choke to flow on a 22.22mm.																		

FieldNotes Field Measurements

Date	Clk Tim	Tbg Pres	Csg Pres	WHT	Orif1	Static1	Diff1	Temp1	Gas Rate	Cum. Gas	Fld Gain	BSW	H2O Gain	H2O Rate	Cum. H2O	Oil Gain	Oil Rate	Cum. Oil	pH	Salinity ppm
yyyy/mm/d	hh:mm:ss	kPa(g)	kPa(g)	°C	mm	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³ /d	m ³	m ³	m ³ /d	m ³		
48	1999/05/07	14:30:00	20700	0	9.0	107.950	1000	15.0	22.0	336.17	19.12									
49		14:35:00	20770	0	15.0	107.950	1000	14.8	22.0	333.92	20.28									
50		14:40:00	20870	0	18.0	107.950	920	14.8	22.0	321.23	21.42									
51		14:45:00	2075	0	18.0	107.950	920	14.8	22.0	321.23	22.54									
52		15:00:00	20860	0	19.0	107.950	920	14.0	20.0	313.55	25.84								5	30000
53		15:15:00	21150	0	19.0	107.950	920	14.0	20.0	313.55	29.11									
54		15:30:00	21230	0	20.0	107.950	920	13.5	20.0	307.89	32.35									
55		15:45:00	21300	0	20.0	107.950	920	13.5	20.0	307.89	35.55									
56		15:58:00	Increase choke to 39.69mm.																	
57		16:00:00	18000	0	22.0	107.950	1450	29.0	18.0	562.54	40.09								5	6000
58		16:05:00	17770	0	23.0	107.950	1500	28.0	17.0	562.98	42.04									
59		16:10:00	17770	0	22.0	107.950	1500	28.0	16.0	564.07	44.00									
60		16:15:00	17770	0	26.0	107.950	1500	28.0	14.0	566.28	45.96									
61		16:30:00	17870	0	28.0	107.950	1500	28.0	16.0	564.07	51.85									
62		16:45:00	17870	0	30.0	107.950	1480	29.0	15.0	571.47	57.76									
63		17:00:00	17900	0	30.0	107.950	1480	29.0	16.0	570.36	63.71								5	8000
64		17:15:00	18080	0	32.0	107.950	1480	29.0	16.0	570.36	69.65									
65		17:30:00	18130	0	32.0	107.950	1480	29.0	15.0	571.47	75.60									
66		17:35:00	Increase choke to 47.63mm.																	
67		17:40:00	12700	0	34.0	107.950	2070	42.0	16.0	810.56	80.40									
68		17:45:00	12660	0	34.0	107.950	2070	42.0	16.0	810.56	83.21									
69		17:50:00	Decrease choke to 41.23mm.																	
70	1999/05/07	18:00:00	14818	0	36.0	107.950	1880	38.5	18.0	736.60	91.27								5	12000
71		18:00:00	Traces of drilling mud in sample.																	
72		18:15:00	14850	0	38.0	105.950	1880	38.5	18.0	700.86	98.76									
73		18:30:00	14920	0	40.0	107.950	1900	38.5	18.0	740.47	106.26									
74		18:45:00	15020	0	41.0	107.950	1900	38.5	18.0	740.47	113.98									
75		18:45:00	Decrease choke to 22.22mm.																	
76		19:00:00	21520	0	40.0	107.950	940	13.8	18.0	315.57	119.48								5	18000
77		19:15:00	21560	0	39.0	107.950	940	15.0	18.0	329.04	122.83									
78		19:30:00	21560	0	40.0	107.950	940	15.0	18.0	329.04	126.26									
79		19:30:00	Shut in choke and record buildups.																	
80		19:30:01			0.000	0	0.0	0.0	0.00	126.26	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
81		19:35:00	23060																	
82		19:40:00	23060																	
83		19:45:00	23060																	
84		20:00:00	23060																	
85		20:00:01			0.000	0	0.0	0.0	0.00	126.26	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00		
86		20:00:01	End of test.																	

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