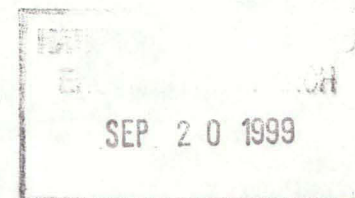




Customer: Paramount Resources
Wellname: Paramount et al Liard
Well Location: F-36
Test Dates: Aug 06 - 24, 1999
Formation: Mattson Sand

File Name: GP99, PARA04.FLD
Supervisors: M. Mueller, M. Lachinsky
Customer Reps: Wayne Tomm
Test Unit/Tank: TU#12
Test Type: Extended Rate Flow

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Final Edited Copy

GENERAL INFORMATION

Client Information:

Company: Paramount Resources.

Contact: Wayne Tomm

Phone: (403) 290-3600 Fax: (403)266-6032 e-mail:

Site Information:

Contact: Bert Blakley

Phone: Fax: e-mail:

Well Information:

Name: Paramount et al Liard

Operator:

Location-Downhole: F-36

Location-Surface: F-36

Test Information:

Company: Norward Energy Services

Representative: Ron Norgaard

Supervisor: M.Mueller , M. Laschinsky

Test Type: Extended Rate Flow

Job Number: GP99

Test Unit: T.U. #12

Start Date: 1999/08/12

Start Time: 16:41:00

End Date: 1999/08/24

End Time: 18:30:00

Report Date: 1999/09/02

Prepared By: C. Brunt

Remarks:

Qualified By:

Paramount Resources.

F-36

Start Test Date: 1999/08/12

Final Test Date: 1999/08/24

FieldNotes

Paramount et al Liard
Formation: Mattson sand

Job Number: GP99

Gas Meter 1

Meter Type:

Meter Size:

Previous Gas Production:

Tap Type:

Tap Location:

Orifice Meter

97.43 mm

0.000 10³m³

Flange

Downstream

Gas Gravity (G):

0.590

CO₂:

16.00 %

H₂S:

0.00 %

N₂:

2.80 %

Critical Temperature (T_c):

184.88 K

Critical Pressure (P_c):

5067.39 kPa

Oil Meter 1

Meter Type:

Measurement Type:

Columns for Produced Volume:

Previous Oil Production:

Previous Water Production:

Produced Volume

Incremental

0.000 m³

0.000 m³

FieldNotes Field Measurements

	Clock									Gas	Cum	Fld		Oil	Oil	Cum	H2O	H2O	Cum			
Date	Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Rate	Gas	Gain	BSW	Gain	Rate	Oil	Gain	Rate	H2O	Rate	H2O	Ph	Salinity
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 /d	m ³	m ³ /d	m ³		ppm	
1	1999/08/06	17:00:00	Crew travel G.P. to Ft. Nelson																			
2	1999/08/07	08:00:00	Travel Ft. Nelson to Ft. Liard, get equipment ready for heli lift.																			
3	1999/08/08	08:00:00	Wait on arrival of helicopter to lift equipment, ensure all equipment is ready for lift.																			
4	1999/08/09	08:00:00	Wait on weather.																			
5	1999/08/10	08:00:00	Wait on weather.																			
6		14:00:00	Weather clears, begin heli lift of equipment.																			
7		20:00:00	Shut down for night.																			
8	1999/08/11	08:00:00	Continue heli lift of equipment, stand stack, begin rig in.																			
9		19:30:00	Shut down for night.																			
10	1999/08/12	08:00:00	Complete rig in, wireline pulls plugs.																			
11		16:35:00	0	0	0.0	0.000	0	0.0	0.0	0.00	0.00	0.000	0.0	0.000	0.000	0.000	0.000	0.000	0.000			
12		16:40:00	3000																			
13		16:41:00	Open to flow to unload tubing on a 17.86mm adjustable choke.																			
14		16:42:00	Fluid to surface.																			
15		16:44:00	Decrease choke to 12.7mm.																			
16		16:45:00	4700																			
17		16:50:00	6900																			
18		16:55:00	10000																			
19		17:00:00	11900																			
20	1999/08/12	17:11:00	Shut in at wing valve, total fluid recovered was 6.2m3.																			
21	1999/08/13	07:00:00	Wireline to run static gradient and set recorders.																			
22		15:15:00	Gradient complete and recorders set at 1371 mcf. Wireline to rig out.																			
23		15:30:00	Wireline rigged out, rig in deadweight line and pressure test.																			
24		15:50:00	Open master valve and take opening pressure.																			
25		15:50:00	14000		0.000	0	0.0	0.0	0.00	0.00	0.000	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
26		15:59:00	Pressure up to choke.																			
27		16:00:00	Open choke slowly to 50.8mm.																			
28		16:10:00	5585		0.000	0	0.0	0.0	0.00	0.00												
29		16:15:00	5620																			
30	1999/08/13	16:30:00	5690		0.000	0	0.0	0.0	0.00	0.00												
31		16:36:00	Decrease choke to 22.23mm.																			
32		16:44:00	Meter in service (meter run size is 97.43mm) with a 73.025mm orifice plate.																			
33		16:45:00	7000	0	21.0	73.025	4200	34.8	28.0	533.50	5.56											
34		17:00:00	6790	0	21.0	73.025	4300	35.5	29.0	544.31	11.17	0.478	55.0	0.215	4.425	0.215	0.263	5.408	0.263	7	12000	
35		17:30:00	6690	0	25.0	73.025	4250	35.0	30.0	536.15	22.43											
36		18:00:00	6690	0	27.0	73.025	4225	34.9	32.0	531.65	33.55	0.014	28.0	0.010	0.242	0.225	0.004	0.094	0.267	7	12000	
37		18:30:00	6688	0	26.0	73.025	4250	34.9	33.0	532.22	44.63											
38		19:00:00	6688	0	28.0	73.025	4250	34.9	34.0	531.18	55.71	0.168	14.0	0.144	3.468	0.370	0.024	0.564	0.290	7	14000	
39		19:30:00	6667	0	26.0	73.025	4250	34.9	35.0	530.15	66.76											
40	1999/08/13	20:00:00	6667	0	24.0	73.025	4250	34.8	35.0	529.39	77.80	0.406	14.0	0.349	8.380	0.719	0.057	1.364	0.347	7	15000	
41		20:30:00	6667	0	24.0	73.025	4250	34.5	37.0	525.07	88.78											
42		21:00:00	6667	0	24.0	73.025	4250	34.7	37.0	526.59	99.74	0.084	10.0	0.076	1.814	0.794	0.008	0.202	0.356	7	16000	
43		21:30:00	6667	0	24.0	73.025	4250	34.6	37.0	525.83	110.70											
44		22:00:00	6667	0	24.0	73.025	4250	34.6	37.0	525.83	121.66	0.035	2.0	0.034	0.823	0.829	0.001	0.017	0.356	7	16000	
45		22:30:00	6667	0	22.0	73.025	4250	34.6	38.0	524.82	132.60											
46		23:00:00	6667	0	24.0	73.025	4250	34.5	38.0	524.06	143.53	0.042	4.0	0.040	0.968	0.869	0.002	0.040	0.358	7	0	
47		23:25:00	Shut in Barton meter to fix leak in bellow casing.																			

FieldNotes Field Measurements

	Clock									Gas	Cum	Fld		Oil	Oil	Cum	H2O	H2O	Cum		
Date	Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Rate	Gas	Gain	BSW	Gain	Rate	Oil	Gain	Rate	H2O	Ph	Salinity	
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 /d	m ³	m ³ /d	m ³	ppm	
48	1999/08/13	23:30:00	6667	0	24.0	73.025	4250	33.1	37.0	514.29	154.34										
49	1999/08/14	00:00:00	6667	0	24.0	73.025	4180	33.2	37.0	510.72	165.02	0.024	0.0	0.024	0.576	0.893	0.000	0.000	0.358	7 20000	
50	1999/08/14	00:00:00	PRODUCTION TOTALS: Cum Gas = 165.02 E3m3, Cum H2O = 0.36 m3, Cum Cond = 0.89 m3. A.P.I = 47.6 @ 15°C. Gastec = 0ppm.																		
51		00:30:00	6653	0	24.0	73.025	4180	33.2	37.0	510.72	175.66										
52		01:00:00	6639	0	24.0	73.025	4180	33.2	37.0	510.72	186.30	0.189	0.0	0.189	4.536	1.082	0.000	0.000	0.358	7 0	
53		01:30:00	6639	0	24.0	73.025	4180	33.1	38.0	508.97	196.92										
54		02:00:00	6653	0	24.0	73.025	4180	32.9	38.0	507.43	207.51	0.126	2.0	0.123	2.964	1.206	0.003	0.060	0.360	7 0	
55		02:30:00	6639	0	24.0	73.025	4180	33.0	38.0	508.20	218.09										
56		03:00:00	6632	0	24.0	73.025	4200	32.9	38.0	508.67	228.68	0.000	0.0	0.000	0.000	1.206	0.000	0.000	0.360	7 0	
57		03:30:00	6632	0	24.0	73.025	4180	32.8	38.0	506.66	239.26										
58	1999/08/14	04:00:00	6632	0	24.0	73.025	4160	32.8	38.0	505.42	249.80	0.035	0.0	0.035	0.840	1.241	0.000	0.000	0.360	7 0	
59		04:30:00	6639	0	24.0	73.025	4120	32.9	38.0	503.70	260.31										
60		05:00:00	6632	0	24.0	73.025	4120	32.9	38.0	503.70	270.81	0.028	0.0	0.028	0.672	1.269	0.000	0.000	0.360	7 0	
61		05:30:00	6626	0	24.0	73.025	4120	32.8	38.0	502.93	281.29										
62		06:00:00	6632	0	24.0	73.025	4140	32.8	38.0	504.18	291.78	0.020	10.0	0.018	0.432	1.287	0.002	0.048	0.362	7 30000	
63		06:30:00	6626	0	24.0	73.025	4150	32.8	38.0	504.80	302.29										
64		07:00:00	6619	0	24.0	73.025	4150	32.7	38.0	504.03	312.80	0.028	3.0	0.027	0.652	1.314	0.001	0.020	0.363	8 0	
65		07:30:00	6619	0	24.0	73.025	4150	32.7	38.0	504.03	323.30										
66		08:00:00	6919	0	23.0	73.025	4050	32.0	29.0	501.10	333.77	0.138	15.0	0.117	2.815	1.431	0.021	0.497	0.384	8 32000	
67		08:30:00	6919	0	24.0	73.025	4050	32.3	32.0	500.49	344.20										
68	1999/08/14	09:00:00	6599	0	24.0	73.025	4050	32.2	32.0	499.71	354.62	0.152	12.0	0.134	3.210	1.565	0.018	0.438	0.402	8 0	
69		09:30:00	6599	0	25.0	73.025	4075	32.2	34.0	499.34	365.03										
70		10:00:00	6599	0	26.0	73.025	4075	32.3	34.0	500.11	375.44	0.169	16.0	0.142	3.407	1.707	0.027	0.649	0.429	8 28000	
71		10:00:00	API=50.0 @ 30°C, H2S by Kitigawa = 0.5ppm.																		
72		10:30:00	6599	0	27.0	73.025	4075	32.3	34.0	500.11	385.86										
73		11:00:00	6585	0	27.0	73.025	4075	32.3	35.0	499.15	396.27	0.092	3.0	0.089	2.142	1.796	0.003	0.066	0.432	8 0	
74		11:30:00	6585	0	28.0	73.025	4075	32.3	35.0	499.15	406.67										
75		12:00:00	6585	0	27.0	73.025	4100	32.3	35.0	500.71	417.08	0.111	9.0	0.101	2.424	1.897	0.010	0.240	0.442	8 16000	
76		12:30:00	6585	0	28.0	73.025	4100	32.3	36.0	499.75	427.50										
77		13:00:00	6578	0	28.0	73.025	4125	32.3	36.0	501.30	437.93	0.164	11.0	0.146	3.503	2.043	0.018	0.433	0.460	8 12000	
78	1999/08/14	13:30:00	6578	0	28.0	73.025	4125	32.2	36.0	500.52	448.37										
79		14:00:00	6571	0	28.0	73.025	4125	32.2	36.0	500.52	458.80	0.124	13.0	0.108	2.589	2.151	0.016	0.387	0.476	8 14000	
80		14:30:00	6571	0	30.0	73.025	4125	32.2	35.0	501.49	469.23										
81		15:00:00	6564	0	33.0	73.025	4100	32.1	34.0	500.12	479.67	0.138	10.0	0.124	2.981	2.275	0.014	0.331	0.490	8 12000	
82		15:30:00	6557	0	32.0	73.025	4100	32.1	33.0	501.09	490.10										
83		16:00:00	6557	0	34.0	73.025	4075	32.1	33.0	499.53	500.52	0.131	12.0	0.115	2.767	2.390	0.016	0.377	0.506	8 10000	
84		16:30:00	6550	0	34.0	73.025	4075	32.0	33.0	498.75	510.92										
85		17:00:00	6550	0	34.0	73.025	4050	32.0	33.0	497.18	521.29	0.203	10.0	0.183	4.385	2.573	0.020	0.487	0.526	8 14000	
86		17:30:00	6550	0	34.0	73.025	4050	32.0	33.0	497.18	531.65										
87		18:00:00	6536	0	35.0	73.025	4050	32.0	33.0	497.18	542.01	0.140	5.0	0.133	3.192	2.706	0.007	0.168	0.533	8	
88	1999/08/14	18:30:00	6564	0	34.0	73.025	4075	32.2	32.0	501.28	552.41										
89		19:00:00	6564	0	33.0	73.025	4075	32.1	32.0	500.50	562.84	0.140	8.0	0.129	3.091	2.835	0.011	0.269	0.544	8	
90		19:30:00	6557	0	28.0	73.025	4150	32.4	34.0	505.58	573.32										
91		20:00:00	6557	0	27.0	73.025	4150	32.4	34.0	505.58	583.86	0.140	2.0	0.137	3.293	2.972	0.003	0.067	0.547	8	
92		20:30:00	6550	0	26.0	73.025	4075	31.8	32.0	498.16	594.31										
93		21:00:00	6543	0	25.0	73.025	4075	32.2	32.0	501.28	604.72	0.080	3.0	0.078	1.862	3.050	0.002	0.058	0.549	8 20000	
94		21:30:00	6536	0	25.0	73.025	4075	32.0	34.0	497.78	615.13										

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
95	1999/08/14	22:00:00	6529	0	25.0	73.025	4100	32.0	34.0	499.34	625.52	0.060	7.0	0.056	1.339	3.105	0.004	0.101	0.554	8	16000
96		22:30:00	6529	0	25.0	73.025	4100	32.0	35.0	498.38	635.91										
97		23:00:00	6529	0	26.0	73.025	4075	31.9	34.0	497.00	646.28	0.130	6.0	0.122	2.933	3.228	0.008	0.187	0.561	8	26000
98	1999/08/14	23:30:00	6529	0	25.0	73.025	4075	31.9	35.0	496.05	656.62										
99	1999/08/15	00:00:00	6529	0	24.0	73.025	4075	31.9	35.0	496.05	666.96	0.050	4.0	0.048	1.152	3.276	0.002	0.048	0.563	8	26000
100		00:00:00	PRODUCTION TOTALS: Cum Gas = 666.96 E3m3, Cum H2O = 0.563 m3, Cum Cond = 3.276 m3. A.P.I = 49.2 @ 15°C. Gastec = 0ppm.																		
101		00:30:00	6515	0	25.0	73.025	4075	31.9	35.0	496.05	677.29										
102		01:00:00	6515	0	25.0	73.025	4050	31.8	35.0	493.71	687.60	0.200	8.0	0.184	4.416	3.460	0.016	0.384	0.579	8	16000
103		01:30:00	6508	0	25.0	73.025	4100	31.8	35.0	496.82	697.92										
104		02:00:00	6508	0	25.0	73.025	4100	31.8	35.0	496.82	708.27	0.079	0.0	0.079	1.886	3.538	0.000	0.000	0.579	8	16000
105	1999/08/15	02:30:00	6501	0	25.0	73.025	4075	31.8	35.0	495.27	718.60										
106		03:00:00	6495	0	25.0	73.025	4075	31.8	35.0	495.27	728.92	0.092	3.0	0.089	2.135	3.627	0.003	0.066	0.582	8	16000
107		03:30:00	6495	0	25.0	73.025	4075	31.9	35.0	496.05	739.25										
108		04:00:00	6495	0	25.0	73.025	4050	31.8	35.0	493.71	749.56	0.120	7.0	0.112	2.678	3.739	0.008	0.202	0.591	8	16000
109		04:30:00	6488	0	25.0	73.025	4050	31.7	35.0	492.94	759.84										
110		05:00:00	6481	0	25.0	73.025	4050	31.7	35.0	492.94	770.10	0.160	8.0	0.147	3.533	3.886	0.013	0.307	0.603	8	12000
111		05:30:00	6481	0	25.0	73.025	4050	31.7	35.0	492.94	780.37										
112		06:00:00	6481	0	25.0	73.025	4050	31.7	35.0	492.94	790.64	0.100	8.0	0.092	2.208	3.978	0.008	0.192	0.611	8	16000
113		06:30:00	6474	0	25.0	73.025	4050	31.7	35.0	492.94	800.91										
114		07:00:00	6488	0	25.0	73.025	4050	31.7	35.0	492.94	811.18	0.144	5.5	0.136	3.266	4.114	0.008	0.190	0.619	8	14000
115	1999/08/15	07:30:00	6495	0	25.0	73.025	4025	31.7	31.0	495.21	821.48										
116		08:00:00	6481	0	25.0	73.025	4025	31.6	32.0	493.46	831.77	0.210	8.0	0.193	4.637	4.307	0.017	0.403	0.636	8	14000
117		08:30:00	6468	0	25.0	73.025	4000	31.6	32.0	491.89	842.04										
118		09:00:00	6468	0	25.0	73.025	4000	31.7	32.0	492.67	852.29	0.170	8.0	0.156	3.754	4.464	0.014	0.326	0.650	8	10000
119		09:30:00	6468	0	26.0	73.025	4000	31.7	33.0	491.72	862.55										
120		10:00:00	6468	0	26.0	73.025	4000	31.8	33.0	492.49	872.80	0.157	10.0	0.141	3.391	4.605	0.016	0.377	0.665	8	16000
121		10:30:00	6468	0	28.0	73.025	4000	31.8	34.0	491.54	883.05										
122		11:00:00	6481	0	28.0	73.025	4000	32.0	34.0	493.09	893.31	0.151	6.0	0.142	3.407	4.747	0.009	0.217	0.674	8	26000
123		11:30:00	6468	0	27.0	73.025	4000	32.0	34.0	493.09	903.58										
124		12:00:00	6468	0	28.0	73.025	4000	32.0	34.0	493.09	913.85	0.177	9.0	0.161	3.866	4.908	0.016	0.382	0.690	8	16000
125	1999/08/15	12:30:00	6468	0	28.0	73.025	4000	32.0	34.0	493.09	924.13										
126		13:00:00	6468	0	28.0	73.025	4000	32.0	34.0	493.09	934.40	0.098	8.0	0.090	2.164	4.998	0.008	0.188	0.698	8	20000
127		13:30:00	6468	0	28.0	73.025	4000	31.9	34.0	492.31	944.66										
128		14:00:00	6468	0	28.0	73.025	4000	31.9	34.0	492.31	954.92	0.131	8.0	0.121	2.892	5.119	0.010	0.252	0.709	8	14000
129		14:30:00	6468	0	29.0	73.025	4000	31.9	34.0	492.31	965.18										
130		15:00:00	6468	0	29.0	73.025	4000	31.9	34.0	492.31	975.43	0.131	8.0	0.121	2.892	5.239	0.010	0.252	0.719	8	22000
131		15:30:00	6468	0	29.0	73.025	4000	31.9	34.0	492.31	985.69										
132		16:00:00	6454	0	29.0	73.025	4000	31.8	34.0	491.54	995.94	0.144	5.0	0.137	3.283	5.376	0.007	0.173	0.726	8	16000
133		16:30:00	6454	0	29.0	73.025	4000	31.7	35.0	489.82	1006.16										
134		17:00:00	6454	0	30.0	73.025	4025	31.5	35.0	489.83	1016.36	0.170	7.0	0.158	3.794	5.534	0.012	0.286	0.738	8	12000
135	1999/08/15	17:30:00	6454	0	30.0	73.025	4025	31.5	35.0	489.83	1026.57										
136		18:00:00	6447	0	30.0	73.025	4000	31.5	34.0	489.21	1036.77	0.072	4.0	0.069	1.659	5.603	0.003	0.069	0.741	8	10000
137		18:30:00	6447	0	30.0	73.025	4000	31.7	34.0	490.77	1046.98										
138		19:00:00	6447	0	30.0	73.025	4000	31.7	34.0	490.77	1057.20	0.151	8.0	0.139	3.334	5.742	0.012	0.290	0.753	8	12000
139		19:30:00	6439	0	30.0	73.025	4000	31.6	35.0	489.05	1067.41										
140		20:00:00	6439	0	30.0	73.025	4015	31.6	35.0	489.98	1077.60	0.030	8.0	0.028	0.662	5.770	0.002	0.058	0.756	8	10000
141		20:30:00	6433	0	28.0	73.025	4015	31.5	35.0	489.21	1087.80										

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
142	1999/08/15	21:00:00	6433	0	28.0	73.025	4000	31.4	35.0	487.50	1097.98	0.250	5.0	0.237	5.700	6.007	0.013	0.300	0.768	8	10000
143		21:30:00	6433	0	27.0	73.025	4000	31.2	35.0	485.94	1108.12										
144		22:00:00	6426	0	26.0	73.025	4025	31.1	35.0	486.70	1118.25	0.092	6.0	0.086	2.069	6.093	0.006	0.132	0.774	8	10000
145	1999/08/15	22:30:00	6426	0	26.0	73.025	4025	31.1	35.0	486.70	1128.39										
146		23:00:00	6488	0	26.0	73.025	4000	31.5	34.0	489.21	1138.56	0.046	7.0	0.043	1.023	6.136	0.003	0.077	0.777	8	10000
147		23:30:00	6481	0	26.0	73.025	4000	31.4	34.0	488.43	1148.74										
148	1999/08/16	00:00:00	6467	0	26.0	73.025	3975	31.4	34.0	486.88	1158.90	0.040	7.0	0.037	0.893	6.173	0.003	0.067	0.780	8	10000
149		00:00:00	PRODUCTION TOTALS: Cum Gas = 1158.90 E3m3, Cum H2O = 0.78 m3, Cum Cond = 6.173 m3, A.P.I = 48.8 @ 15°C, Gastec = 0ppm.																		
150		00:30:00	6481	0	25.0	73.025	3975	31.3	34.0	486.10	1169.03										
151		01:00:00	6466	0	26.0	73.025	3975	31.3	34.0	486.10	1179.16	0.120	4.0	0.115	2.765	6.288	0.005	0.115	0.784	8	8000
152	1999/08/16	01:30:00	6452	0	26.0	73.025	3975	31.3	34.0	486.10	1189.29										
153		02:00:00	6446	0	26.0	73.025	3975	31.3	34.0	486.10	1199.42	0.120	5.0	0.114	2.736	6.402	0.006	0.144	0.790	8	10000
154		02:30:00	6446	0	26.0	73.025	3975	31.2	34.0	485.32	1209.53										
155		03:00:00	6446	0	25.0	73.025	3975	31.1	34.0	484.54	1219.64	0.120	5.0	0.114	2.736	6.516	0.006	0.144	0.796	8	10000
156		03:30:00	6426	0	25.0	73.025	3975	31.1	34.0	484.54	1229.73										
157		04:00:00	6439	0	25.0	73.025	3975	31.1	34.0	484.54	1239.83	0.230	3.0	0.223	5.354	6.739	0.007	0.166	0.803	8	10000
158		04:30:00	6439	0	25.0	73.025	3975	31.1	34.0	484.54	1249.92										
159		05:00:00	6439	0	25.0	73.025	3975	31.1	34.0	484.54	1260.02	0.070	3.0	0.068	1.630	6.807	0.002	0.050	0.805	8	10000
160		05:30:00	6439	0	25.0	73.025	3975	31.1	34.0	484.54	1270.11										
161		06:00:00	6439	0	25.0	73.025	3975	31.1	34.0	484.54	1280.20	0.120	0.0	0.120	2.880	6.927	0.000	0.000	0.805	8	12000
162	1999/08/16	06:30:00	6439	0	25.0	73.025	3975	31.2	34.0	485.32	1290.31										
163		07:00:00	6439	0	25.0	73.025	3975	31.2	34.0	485.32	1300.42	0.136	8.5	0.124	2.987	7.052	0.012	0.277	0.817	7	10000
164		07:30:00	6439	0	25.0	73.025	3975	31.2	34.0	485.32	1310.53										
165		08:00:00	6433	0	26.0	73.025	3975	31.2	34.0	485.32	1320.64	0.203	6.0	0.191	4.580	7.243	0.012	0.292	0.829	7	10000
166		08:30:00	6433	0	26.0	73.025	3975	31.2	34.0	485.32	1330.75										
167		09:00:00	6426	0	26.0	73.025	3975	31.2	34.0	485.32	1340.86	0.144	4.5	0.138	3.300	7.380	0.006	0.156	0.836	7	12000
168		09:30:00	6426	0	26.0	73.025	3975	31.2	34.0	485.32	1350.97										
169		10:00:00	6419	0	26.0	73.025	3975	31.1	34.0	484.54	1361.07	0.151	6.0	0.142	3.407	7.522	0.009	0.217	0.845	7	14000
170		10:30:00	6419	0	26.0	73.025	3975	31.2	34.0	485.32	1371.18										
171		11:00:00	6419	0	26.0	73.025	3975	31.2	34.0	485.32	1381.29	0.111	7.0	0.103	2.478	7.625	0.008	0.186	0.853	7	14000
172	1999/08/16	11:30:00	6412	0	26.0	73.025	3975	31.2	34.0	485.32	1391.40										
173		12:00:00	6412	0	27.0	73.025	3975	31.2	34.0	485.32	1401.51	0.157	3.5	0.152	3.636	7.777	0.005	0.132	0.858	8	18000
174		12:30:00	6412	0	28.0	73.025	3975	31.2	34.0	485.32	1411.62										
175		13:00:00	6399	0	28.0	73.025	4000	31.2	34.0	486.87	1421.75	0.085	5.0	0.081	1.938	7.858	0.004	0.102	0.862	7	14000
176	1999/08/16	13:30:00	6399	0	28.0	73.025	4000	31.2	34.0	486.87	1431.89										
177		14:00:00	6399	0	28.0	73.025	4000	31.2	34.0	486.87	1442.03	0.210	6.0	0.197	4.738	8.055	0.013	0.302	0.875	7	18000
178		14:30:00	6399	0	28.0	73.025	4000	31.2	34.0	486.87	1452.18										
179		15:00:00	6399	0	29.0	73.025	4000	31.1	35.0	485.16	1462.30	0.105	3.5	0.101	2.432	8.156	0.004	0.088	0.879	7	14000
180		15:30:00	6399	0	29.0	73.025	4000	31.0	34.0	485.31	1472.41										
181		16:00:00	6399	0	29.0	73.025	4000	31.1	34.0	486.09	1482.53	0.092	3.0	0.089	2.142	8.246	0.003	0.066	0.881	8	16000
182	1999/08/16	16:30:00	6399	0	29.0	73.025	4000	31.2	34.0	486.87	1492.67										
183		17:00:00	6385	0	29.0	73.025	4000	31.2	34.0	486.87	1502.81	0.138	2.5	0.135	3.229	8.380	0.003	0.083	0.885	7	16000
184		17:30:00	6385	0	29.0	73.025	4000	31.1	34.0	486.09	1512.94										
185		18:00:00	6385	0	29.0	73.025	4000	31.1	34.0	486.09	1523.07	0.157	3.5	0.152	3.636	8.532	0.005	0.132	0.890	8	12000
186		18:30:00	6385	0	29.0	73.025	4000	31.1	34.0	486.09	1533.20										
187		19:00:00	6385	0	29.0	73.025	4000	31.1	34.0	486.09	1543.33	0.144	5.0	0.137	3.283	8.668	0.007	0.173	0.897	7	6000
188		19:30:00	6384	0	29.0	73.025	4000	31.1	34.0	486.09	1553.45										

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
189	1999/08/16	20:00:00	6384	0	27.0	73.025	4000	31.1	34.0	486.09	1563.58	0.340	4.0	0.326	7.834	8.995	0.014	0.326	0.911	7	10000
190		20:30:00	6377	0	26.0	73.025	4000	31.1	34.0	486.09	1573.71										
191		21:00:00	6377	0	26.0	73.025	4000	31.1	34.0	486.09	1583.83	0.340	5.0	0.323	7.752	9.318	0.017	0.408	0.928	7	6000
192	1999/08/16	21:30:00	6377	0	26.0	73.025	4000	31.1	34.0	486.09	1593.96										
193		22:00:00	6377	0	26.0	73.025	4015	31.0	34.0	486.24	1604.09	0.340	4.0	0.326	7.834	9.644	0.014	0.326	0.942	7	8000
194		22:30:00	6370	0	25.0	73.025	4015	31.0	34.0	486.24	1614.22										
195		23:00:00	6370	0	25.0	73.025	4015	31.0	34.0	486.24	1624.35	0.340	5.0	0.323	7.752	9.967	0.017	0.408	0.959	7	7000
196		23:30:00	6363	0	25.0	73.025	4015	30.9	34.0	485.45	1634.47										
197	1999/08/17	00:00:00	6363	0	25.0	73.025	4000	30.9	34.0	484.53	1644.57	0.200	5.0	0.190	4.560	10.157	0.010	0.240	0.969	7	8000
198		00:00:00	PRODUCTION TOTALS: Cum Gas = 1644.57 E3m3, Cum H2O = 0.969 m3, Cum Cond = 10.157 m3. A.P.I = 48.4 @ 15°C. Gascet = 0ppm.																		
199	1999/08/17	00:30:00	6363	0	25.0	73.025	3975	30.9	34.0	482.98	1654.65										
200		01:00:00	6363	0	25.0	73.025	3975	30.9	34.0	482.98	1664.71	0.020	0.0	0.020	0.480	10.177	0.000	0.000	0.969	7	8000
201		01:30:00	6363	0	25.0	73.025	3975	30.7	34.0	481.41	1674.76										
202		02:00:00	6357	0	24.0	73.025	3975	30.7	34.0	481.41	1684.79	0.150	6.0	0.141	3.384	10.318	0.009	0.216	0.978	7	8000
203		02:30:00	6357	0	24.0	73.025	3975	30.8	34.0	482.20	1694.83										
204		03:00:00	6357	0	24.0	73.025	3975	30.8	34.0	482.20	1704.87	0.066	3.0	0.064	1.525	10.382	0.002	0.047	0.980	7	8000
205		03:30:00	6357	0	24.0	73.025	3975	30.8	34.0	482.20	1714.92										
206		04:00:00	6357	0	24.0	73.025	3950	30.6	34.0	479.08	1724.93	0.200	4.0	0.192	4.608	10.574	0.008	0.192	0.988	7	8000
207		04:30:00	6350	0	24.0	73.025	3950	30.6	34.0	479.08	1734.91										
208		05:00:00	6350	0	24.0	73.025	3950	30.6	34.0	479.08	1744.89	0.046	2.0	0.045	1.082	10.619	0.001	0.022	0.989	7	7000
209	1999/08/17	05:30:00	6350	0	24.0	73.025	3950	30.6	34.0	479.08	1754.87										
210		06:00:00	6350	0	24.0	73.025	3950	30.5	34.0	478.30	1764.85	0.200	6.0	0.188	4.512	10.807	0.012	0.288	1.001	7	8000
211		06:30:00	6343	0	24.0	73.025	3950	30.3	34.0	476.73	1774.80										
212		07:00:00	6343	0	24.0	73.025	3950	30.3	34.0	476.73	1784.73	0.118	4.5	0.113	2.705	10.920	0.005	0.127	1.006	7	10000
213		07:30:00	6343	0	24.0	73.025	3950	30.3	34.0	476.73	1794.66										
214		08:00:00	6337	0	24.0	73.025	3950	30.3	33.0	477.65	1804.60	0.124	6.0	0.117	2.797	11.036	0.007	0.179	1.013	7	12000
215		08:30:00	6337	0	24.0	73.025	3950	30.3	33.0	477.65	1814.55										
216		09:00:00	6337	0	24.0	73.025	3950	30.3	33.0	477.65	1824.50	0.164	5.0	0.156	3.739	11.192	0.008	0.197	1.021	7	8000
217		09:30:00	6330	0	24.0	73.025	3950	30.4	34.0	477.51	1834.45										
218		10:00:00	6330	0	25.0	73.025	3975	30.4	34.0	479.05	1844.42	0.105	6.0	0.099	2.369	11.291	0.006	0.151	1.028	7	10000
219	1999/08/17	10:30:00	6330	0	25.0	73.025	4000	30.4	34.0	480.59	1854.41										
220		11:00:00	6330	0	26.0	73.025	4000	30.4	34.0	480.59	1864.42	0.105	2.5	0.102	2.457	11.393	0.003	0.063	1.030	7	10000
221		11:30:00	6330	0	27.0	73.025	4000	30.5	34.0	481.38	1874.44										
222		12:00:00	6330	0	26.0	73.025	3975	30.4	34.0	479.05	1884.45	0.138	5.0	0.131	3.146	11.524	0.007	0.166	1.037	7	14000
223		12:30:00	6330	0	28.0	73.025	3975	30.4	35.0	478.13	1894.42										
224		13:00:00	6330	0	27.0	73.025	4000	30.4	34.0	480.59	1904.41	0.092	3.0	0.089	2.142	11.613	0.003	0.066	1.040	7	12000
225		13:30:00	6330	0	28.0	73.025	4000	30.5	35.0	480.45	1914.42										
226		13:45:00	Open choke to 23.81mm.																		
227		14:00:00	5964	0	29.0	73.025	4100	31.0	36.0	489.58	1924.52	0.124	2.0	0.122	2.916	11.735	0.002	0.060	1.043	7	12000
228		14:04:00	Open choke to 24.61mm.																		
229	1999/08/17	14:30:00	5861	0	30.0	73.025	4175	31.6	36.0	498.89	1934.82										
230		15:00:00	5861	0	29.0	73.025	4175	31.5	36.0	498.10	1945.20	0.118	1.5	0.116	2.790	11.851	0.002	0.042	1.044	7	10000
231		15:30:00	5861	0	30.0	73.025	4175	31.5	36.0	498.10	1955.58										
232		16:00:00	5861	0	30.0	73.025	4175	31.5	36.0	498.10	1965.96	0.111	3.0	0.108	2.584	11.959	0.003	0.080	1.048	7	12000
233		16:30:00	5861	0	30.0	73.025	4175	31.5	36.0	498.10	1976.33										
234		17:00:00	5861	0	30.0	73.025	4175	31.5	36.0	498.10	1986.71	0.098	2.5	0.096	2.293	12.054	0.002	0.059	1.050	7	8000
235		17:30:00	5861	0	29.0	73.025	4175	31.5	36.0	498.10	1997.09										

FieldNotes Field Measurements

		Clock								Gas	Cum	Fld		Oil	Oil	Cum	H2O	H2O	Cum		
	Date	Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Rate	Gas	Gain	BSW	Gain	Rate	Oil	Gain	Rate	H2O	Ph	Salinity
	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		ppm
236	1999/08/17	18:00:00	5854	0	27.0	73.025	4175	31.5	36.0	498.10	2007.47	0.133	3.0	0.129	3.096	12.183	0.004	0.096	1.054	7	10000
237		18:30:00	5854	0	27.0	73.025	4175	31.4	36.0	497.31	2017.84										
238		19:00:00	5854	0	26.0	73.025	4175	31.4	36.0	497.31	2028.20	0.105	3.0	0.102	2.444	12.285	0.003	0.076	1.057	7	8000
239	1999/08/17	19:30:00	5853	0	26.0	73.025	4175	31.4	36.0	497.31	2038.56										
240		20:00:00	5853	0	26.0	73.025	4150	31.5	36.0	496.58	2048.91	0.160	3.0	0.155	3.725	12.440	0.005	0.115	1.062	7	8000
241		20:30:00	5853	0	26.0	73.025	4150	31.5	36.0	496.58	2059.26										
242		21:00:00	5846	0	26.0	73.025	4150	31.5	36.0	496.58	2069.60	0.030	2.0	0.029	0.706	12.470	0.001	0.014	1.063	7	10000
243		21:30:00	5846	0	26.0	73.025	4150	31.4	36.0	495.79	2079.94										
244		22:00:00	5846	0	26.0	73.025	4150	31.4	36.0	495.79	2090.27	0.030	2.0	0.029	0.706	12.499	0.001	0.014	1.063		
245		22:30:00	5846	0	26.0	73.025	4150	31.3	36.0	495.00	2100.59										
246		22:30:00	Open choke to 25.4mm.																		
247		23:00:00	5743	0	24.0	73.025	4175	31.4	34.0	499.24	2110.94	0.120	2.0	0.118	2.822	12.617	0.002	0.058	1.066	7	8000
248		23:30:00	5743	0	24.0	73.025	4175	31.3	34.0	498.44	2121.34										
249	1999/08/18	00:00:00	5743	0	24.0	73.025	4125	31.3	34.0	495.38	2131.69	0.020	3.0	0.019	0.466	12.636	0.001	0.014	1.066	7	10000
250		00:00:00	Open choke to 26.19mm.																		
251		00:00:00	PRODUCTION TOTALS: Cum Gas = 2121.69 E3m3, Cum H2O = 1.066 m3, Cum Cond = 12.636 m3. A.P.I = 48.8 @ 15°C. Gastec = 0ppm.																		
252		00:30:00	5681	0	24.0	73.025	4125	31.6	35.0	496.79	2142.02										
253		01:00:00	5681	0	24.0	73.025	4125	31.6	35.0	496.79	2152.37	0.120	4.0	0.115	2.765	12.751	0.005	0.115	1.071	7	10000
254		01:30:00	5681	0	24.0	73.025	4100	31.6	35.0	495.25	2162.71										
255		01:35:00	Open choke to 26.98mm.																		
256		02:00:00	5626	0	25.0	73.025	4140	31.6	35.0	497.71	2173.05	0.150	4.0	0.144	3.456	12.895	0.006	0.144	1.077	7	12000
257	1999/08/18	02:30:00	5626	0	24.0	73.025	4140	31.4	35.0	496.13	2183.40										
258		03:00:00	5626	0	24.0	73.025	4125	31.4	35.0	495.21	2193.73	0.030	5.0	0.029	0.684	12.924	0.002	0.036	1.079	7	10000
259		03:10:00	Open choke to 27.78mm.																		
260		03:30:00	5591	0	24.0	73.025	4125	31.5	35.0	496.00	2204.05										
261		04:00:00	5591	0	24.0	73.025	4125	31.5	35.0	496.00	2214.39	0.150	4.0	0.144	3.456	13.068	0.006	0.144	1.085	7	10000
262		04:30:00	5591	0	24.0	73.025	4125	31.5	35.0	496.00	2224.72										
263		05:00:00	5591	0	24.0	73.025	4125	31.4	35.0	495.21	2235.05	0.100	6.0	0.094	2.256	13.162	0.006	0.144	1.091	7	10000
264		05:10:00	Open choke to 28.58mm.																		
265		05:30:00	5571	0	24.0	73.025	4150	31.3	35.0	495.95	2245.37										
266	1999/08/18	06:00:00	5571	0	24.0	73.025	4150	31.1	35.0	494.36	2255.69	0.060	4.0	0.058	1.382	13.219	0.002	0.058	1.093	7	8000
267		06:30:00	5571	0	24.0	73.025	4150	31.5	35.0	497.53	2266.02										
268		07:00:00	5571	0	23.0	73.025	4150	31.5	35.0	497.53	2276.38	0.164	3.5	0.158	3.798	13.378	0.006	0.138	1.099	7	10000
269		07:30:00	5599	0	23.0	73.025	4175	31.9	35.0	502.23	2286.80										
270		08:00:00	5571	0	23.0	73.025	4150	31.8	35.0	499.90	2297.24	0.164	8.0	0.151	3.621	13.529	0.013	0.315	1.112	7	12000
271		08:30:00	5571	0	22.0	73.025	4150	31.8	35.0	499.90	2307.65										
272		09:00:00	5571	0	23.0	73.025	4150	31.8	34.0	500.87	2318.08	0.124	6.0	0.117	2.797	13.645	0.007	0.179	1.119	7	14000
273		09:30:00	5571	0	23.0	73.025	4150	31.8	35.0	499.90	2328.50										
274		10:00:00	5571	0	23.0	73.025	4150	31.9	35.0	500.69	2338.92	0.164	3.5	0.158	3.798	13.803	0.006	0.138	1.125	7	12000
275		10:30:00	5571	0	23.0	73.025	4150	31.9	35.0	500.69	2349.36										
276	1999/08/18	11:00:00	5571	0	23.0	73.025	4150	31.8	35.0	499.90	2359.78	0.059	6.0	0.055	1.331	13.859	0.004	0.085	1.129	7	12000
277		11:30:00	5571	0	24.0	73.025	4150	31.8	35.0	499.90	2370.19										
278		12:00:00	5571	0	24.0	73.025	4150	31.7	35.0	499.11	2380.60	0.066	5.0	0.063	1.505	13.922	0.003	0.079	1.132	7	12000
279		12:30:00	5571	0	24.0	73.025	4150	31.8	35.0	499.90	2391.01										
280		13:00:00	5571	0	24.0	73.025	4150	31.8	35.0	499.90	2401.42	0.072	2.0	0.071	1.693	13.992	0.001	0.035	1.133	7	14000
281		13:30:00	5571	0	23.0	73.025	4150	31.8	35.0	499.90	2411.83										
282		14:00:00	5571	0	23.0	73.025	4175	31.9	36.0	501.26	2422.26	0.111	2.0	0.109	2.611	14.101	0.002	0.053	1.135	7	10000

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
283	1999/08/18	14:30:00	5571	0	24.0	73.025	4175	31.9	36.0	501.26	2432.71										
284		15:00:00	5571	0	25.0	73.025	4175	31.9	36.0	501.26	2443.15	0.085	5.0	0.081	1.938	14.182	0.004	0.102	1.140	7	14000
285		15:30:00	5571	0	26.0	73.025	4175	31.9	36.0	501.26	2453.59										
286	1999/08/18	16:00:00	5571	0	26.0	73.025	4200	31.8	36.0	502.00	2464.04	0.151	2.5	0.147	3.533	14.329	0.004	0.091	1.143	7	12000
287		16:30:00	5571	0	26.0	73.025	4200	31.8	36.0	502.00	2474.50										
288		17:00:00	5571	0	27.0	73.025	4200	31.8	36.0	502.00	2484.96	0.092	3.0	0.089	2.142	14.418	0.003	0.066	1.146	7	10000
289		17:30:00	5571	0	27.0	73.025	4200	31.8	36.0	502.00	2495.42										
290		18:00:00	5571	0	28.0	73.025	4200	31.8	36.0	502.00	2505.88	0.033	2.0	0.032	0.776	14.450	0.001	0.016	1.147	7	10000
291		18:30:00	5571	0	28.0	73.025	4200	31.7	36.0	501.21	2516.33										
292		19:00:00	5571	0	28.0	73.025	4200	31.7	36.0	501.21	2526.77	0.138	6.0	0.130	3.113	14.580	0.008	0.199	1.155	7	12000
293		19:30:00	5571	0	28.0	73.025	4200	31.7	36.0	501.21	2537.21										
294		20:00:00	5571	0	27.0	73.025	4200	31.7	36.0	501.21	2547.65	0.030	4.0	0.029	0.691	14.609	0.001	0.029	1.156	7	12000
295		20:30:00	5571	0	26.0	73.025	4200	31.7	36.0	501.21	2558.09										
296	1999/08/18	21:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2568.54	0.090	2.0	0.088	2.117	14.697	0.002	0.043	1.158	7	10000
297		21:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2578.98										
298		22:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2589.42	0.030	2.0	0.029	0.706	14.727	0.001	0.014	1.159	7	12000
299		22:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2599.86										
300		23:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2610.30	0.040	5.0	0.038	0.912	14.765	0.002	0.048	1.161	7	10000
301		23:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2620.75										
302	1999/08/19	00:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2631.19	0.040	5.0	0.038	0.912	14.803	0.002	0.048	1.163	7	10000
303		00:00:00	PRODUCTION TOTALS: Cum Gas = 2631.19 E3m3, Cum H2O = 1.163 m3, Cum Cond = 14.803 m3. A.P.I = 47.1 @ 15°C. Gastec = 0ppm.																		
304		00:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2641.63										
305		00:30:00	Dump valve on test separator stuck in open position for a couple of minutes.																		
306		01:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2652.07	0.085	7.0	0.079	1.897	14.882	0.006	0.143	1.169	7	10000
307		01:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2662.51										
308		02:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2672.95	0.046	4.0	0.044	1.060	14.926	0.002	0.044	1.171	7	10000
309		02:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2683.40										
310		03:00:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2693.84	0.090	5.0	0.085	2.052	15.011	0.005	0.108	1.175	7	8000
311		03:30:00	5571	0	24.0	73.025	4200	31.7	36.0	501.21	2704.28										
312		04:00:00	5571	0	24.0	73.025	4175	31.8	35.0	501.44	2714.72	0.060	6.0	0.056	1.354	15.068	0.004	0.086	1.179	7	8000
313	1999/08/19	04:30:00	5571	0	24.0	73.025	4175	31.8	35.0	501.44	2725.17										
314		05:00:00	5571	0	24.0	73.025	4175	31.7	35.0	500.65	2735.61	0.100	6.0	0.094	2.256	15.162	0.006	0.144	1.185	7	10000
315		05:30:00	5571	0	24.0	73.025	4175	31.7	35.0	500.65	2746.04										
316		06:00:00	5571	0	24.0	73.025	4175	31.7	35.0	500.65	2756.47	0.100	6.0	0.094	2.256	15.256	0.006	0.144	1.191	7	12000
317		06:30:00	5571	0	23.0	73.025	4175	31.7	35.0	500.65	2766.90										
318		07:00:00	5571	0	23.0	73.025	4150	31.7	35.0	499.11	2777.31	0.046	7.5	0.043	1.021	15.298	0.003	0.083	1.194	7	10000
319		07:30:00	5530	0	22.0	73.025	4150	31.7	34.0	500.08	2787.72										
320		08:00:00	5571	0	22.0	73.025	4150	31.4	34.0	497.71	2798.12	0.229	8.5	0.210	5.029	15.508	0.019	0.467	1.214	7	10000
321		08:30:00	5571	0	24.0	73.025	4150	31.5	34.0	498.50	2808.49										
322		08:45:00	H2S by Kitgawa = 1.5ppm.																		
323	1999/08/19	09:00:00	5571	0	24.0	73.025	4150	31.4	34.0	497.71	2818.87	0.170	9.0	0.155	3.713	15.662	0.015	0.367	1.229	7	12000
324		09:30:00	5571	0	24.0	73.025	4175	31.5	34.0	500.03	2829.26										
325		10:00:00	5571	0	24.0	73.025	4175	31.6	34.0	500.83	2839.69	0.105	9.0	0.096	2.293	15.758	0.009	0.227	1.238	7	14000
326		10:30:00	5571	0	24.0	73.025	4175	31.6	34.0	500.83	2850.12										
327		11:00:00	5571	0	24.0	73.025	4175	31.6	35.0	499.86	2860.55	0.077	6.0	0.072	1.737	15.830	0.005	0.111	1.243	7	8000
328		11:30:00	5571	0	24.0	73.025	4175	31.7	35.0	500.65	2870.97										
329		12:00:00	5571	0	25.0	73.025	4200	31.8	36.0	502.00	2881.41	0.077	6.5	0.072	1.728	15.902	0.005	0.120	1.248	7	4000

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	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		
330	1999/08/19	12:30:00	5571	0	26.0	73.025	4200	31.8	36.0	502.00	2891.87										
331		13:00:00	5571	0	26.0	73.025	4200	31.8	36.0	502.00	2902.33	0.077	3.0	0.075	1.793	15.977	0.002	0.055	1.250	7	6000
332		13:30:00	5571	0	26.0	73.025	4200	31.8	36.0	502.00	2912.79										
333	1999/08/19	14:00:00	5585	0	26.0	73.025	4200	31.8	36.0	502.00	2923.25	0.052	3.5	0.050	1.204	16.027	0.002	0.044	1.252	7	10000
334		14:30:00	5585	0	26.0	73.025	4200	31.9	36.0	502.79	2933.71										
335		15:00:00	5585	0	27.0	73.025	4200	31.9	36.0	502.79	2944.19	0.085	3.5	0.082	1.969	16.109	0.003	0.071	1.255	7	8000
336		15:30:00	5585	0	27.0	73.025	4200	31.8	36.0	502.00	2954.66										
337		16:00:00	5585	0	28.0	73.025	4225	31.9	36.0	504.32	2965.14	0.164	2.5	0.160	3.838	16.269	0.004	0.098	1.259	7	6000
338		16:30:00	5571	0	28.0	73.025	4225	31.8	36.0	503.53	2975.64										
339		17:00:00	5571	0	28.0	73.025	4225	31.9	36.0	504.32	2986.13	0.072	2.0	0.071	1.693	16.340	0.001	0.035	1.261	7	10000
340		17:30:00	5585	0	29.0	73.025	4225	31.9	36.0	504.32	2996.64										
341		18:00:00	5585	0	29.0	73.025	4225	31.9	36.0	504.32	3007.15	0.060	3.5	0.058	1.390	16.398	0.002	0.050	1.263	7	10000
342		18:30:00	5585	0	29.0	73.025	4225	31.8	36.0	503.53	3017.65										
343	1999/08/19	19:00:00	5571	0	30.0	73.025	4225	31.9	36.0	504.32	3028.14	0.066	4.0	0.063	1.521	16.461	0.003	0.063	1.265	7	8000
344		19:30:00	5571	0	30.0	73.025	4225	31.9	36.0	504.32	3038.65										
345		20:00:00	5571	0	29.0	73.025	4250	31.8	36.0	505.05	3049.17	0.020	3.0	0.019	0.466	16.480	0.001	0.014	1.266	7	8000
346		20:30:00	5571	0	26.0	73.025	4250	31.8	36.0	505.05	3059.69										
347		21:00:00	5571	0	25.0	73.025	4225	31.8	36.0	503.53	3070.19	0.020	3.0	0.019	0.466	16.500	0.001	0.014	1.267	7	8000
348		21:30:00	5571	0	25.0	73.025	4225	31.8	36.0	503.53	3080.68										
349		22:00:00	5571	0	25.0	73.025	4225	31.8	36.0	503.53	3091.17	1.300	4.0	1.248	29.952	17.748	0.052	1.248	1.319	7	8000
350		22:30:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3101.66										
351		23:00:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3112.15	0.010	5.0	0.009	0.228	17.757	0.001	0.012	1.319	7	8000
352		23:30:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3122.64										
353	1999/08/20	00:00:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3133.13	0.060	5.0	0.057	1.368	17.814	0.003	0.072	1.322	7	10000
354		00:00:00	PRODUCTION TOTALS: Cum Gas = 3133.13 E3m3, Cum H2O = 1.322 m3, Cum Cond = 17.814 m3. A.P.I = 47.9 @ 15°C. Gastec = 0ppm.																		
355		00:30:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3143.62										
356		01:00:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3154.11	0.060	3.0	0.058	1.397	17.872	0.002	0.043	1.324	7	8000
357		01:30:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3164.60										
358		02:00:00	5571	0	24.0	73.025	4225	31.8	36.0	503.53	3175.09	0.050	4.0	0.048	1.152	17.920	0.002	0.048	1.326	7	8000
359		02:30:00	5571	0	24.0	73.025	4225	31.6	36.0	501.94	3185.57										
360	1999/08/20	03:00:00	5564	0	24.0	73.025	4200	31.2	35.0	498.20	3195.99	0.120	5.0	0.114	2.736	18.034	0.006	0.144	1.332	7	10000
361		03:30:00	5564	0	24.0	73.025	4200	31.2	35.0	498.20	3206.37										
362		04:00:00	5564	0	24.0	73.025	4175	31.2	35.0	496.68	3216.73	0.045	10.0	0.041	0.972	18.075	0.005	0.108	1.336	7	8000
363		04:30:00	5557	0	24.0	73.025	4175	31.2	35.0	496.68	3227.08										
364		05:00:00	5557	0	24.0	73.025	4175	31.2	35.0	496.68	3237.42	0.130	8.0	0.120	2.870	18.195	0.010	0.250	1.347	7	8000
365		05:30:00	5557	0	24.0	73.025	4175	31.2	34.0	497.64	3247.78										
366		06:00:00	5557	0	24.0	73.025	4175	31.3	34.0	498.44	3258.16	0.060	8.0	0.055	1.325	18.250	0.005	0.115	1.352	7	8000
367		06:30:00	5557	0	24.0	73.025	4175	31.3	35.0	497.48	3268.53										
368		07:00:00	5557	0	24.0	73.025	4175	31.3	34.0	498.44	3278.91	0.046	9.5	0.042	0.999	18.291	0.004	0.105	1.356	7	8000
369		07:30:00	5557	0	23.0	73.025	4175	31.3	34.0	498.44	3289.29										
370	1999/08/20	08:00:00	5544	0	23.0	73.025	4175	31.3	34.0	498.44	3299.67	0.177	10.0	0.159	3.823	18.451	0.018	0.425	1.374	7	12000
371		08:30:00	5557	0	23.0	73.025	4175	31.3	35.0	497.48	3310.05										
372		09:00:00	5530	0	23.0	73.025	4175	31.3	35.0	497.48	3320.41	0.170	2.0	0.167	3.998	18.617	0.003	0.082	1.377	7	10000
373		09:30:00	5537	0	23.0	73.025	4150	31.4	35.0	496.74	3330.77										
374		10:00:00	5544	0	24.0	73.025	4175	31.4	35.0	498.27	3341.13	0.072	3.5	0.069	1.668	18.687	0.003	0.060	1.380	7	10000
375		10:30:00	5544	0	24.0	73.025	4175	31.4	35.0	498.27	3351.51										
376		11:00:00	5551	0	24.0	73.025	4175	31.5	36.0	498.10	3361.89	0.072	2.5	0.070	1.685	18.757	0.002	0.043	1.381	7	8000

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	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		
377	1999/08/20	11:30:00	5557	0	24.0	73.025	4175	31.5	36.0	498.10	3372.27										
378		12:00:00	5551	0	24.0	73.025	4175	31.4	36.0	497.31	3382.64	0.052	8.5	0.048	1.142	18.805	0.004	0.106	1.386	7	4000
379		12:30:00	5557	0	24.0	73.025	4175	31.4	36.0	497.31	3393.00										
380	1999/08/20	13:00:00	5557	0	25.0	73.025	4175	31.4	36.0	497.31	3403.36	0.098	6.0	0.092	2.211	18.897	0.006	0.141	1.392	7	6000
381		13:30:00	5551	0	26.0	73.025	4175	31.4	36.0	497.31	3413.72										
382		14:00:00	5557	0	26.0	73.025	4175	31.4	36.0	497.31	3424.08	0.059	2.0	0.058	1.388	18.955	0.001	0.028	1.393	7	4000
383		14:30:00	5564	0	26.0	73.025	4175	31.4	36.0	497.31	3434.44										
384		15:00:00	5564	0	27.0	73.025	4175	31.3	36.0	496.52	3444.79	0.059	7.0	0.055	1.317	19.009	0.004	0.099	1.397	7	12000
385		15:30:00	5544	0	28.0	73.025	4175	31.3	36.0	496.52	3455.14										
386		16:00:00	5544	0	27.0	73.025	4200	31.3	36.0	498.04	3465.50	0.118	6.5	0.110	2.648	19.120	0.008	0.184	1.405	7	8000
387		16:30:00	5557	0	28.0	73.025	4200	31.3	36.0	498.04	3475.87										
388		17:00:00	5564	0	28.0	73.025	4200	31.3	36.0	498.04	3486.25	0.052	7.0	0.048	1.161	19.168	0.004	0.087	1.408	7	14000
389		17:30:00	5564	0	28.0	73.025	4225	31.3	36.0	499.55	3496.64										
390	1999/08/20	18:00:00	5571	0	28.0	73.025	4225	31.2	36.0	498.75	3507.04	0.052	3.0	0.050	1.211	19.219	0.002	0.037	1.410	7	8000
391		18:30:00	5550	0	30.0	73.025	4225	31.2	36.0	498.75	3517.43										
392		19:00:00	5557	0	30.0	73.025	4225	31.2	36.0	498.75	3527.82	0.059	4.5	0.056	1.352	19.275	0.003	0.064	1.412	7	10000
393		19:30:00	5564	0	29.0	73.025	4225	31.2	37.0	497.79	3538.20										
394		20:00:00	5564	0	29.0	73.025	4225	31.2	37.0	497.79	3548.57	0.010	4.0	0.010	0.230	19.284	0.000	0.010	1.413	7	10000
395		20:30:00	5557	0	27.0	73.025	4225	31.2	36.0	498.75	3558.95										
396		21:00:00	5550	0	25.0	73.025	4225	31.2	37.0	497.79	3569.33	0.020	4.0	0.019	0.461	19.304	0.001	0.019	1.414	7	10000
397		21:30:00	5550	0	25.0	73.025	4200	31.2	37.0	496.28	3579.69										
398		22:00:00	5550	0	25.0	73.025	4200	31.2	37.0	496.28	3590.03	0.060	6.0	0.056	1.354	19.360	0.004	0.086	1.417	7	8000
399		22:30:00	5544	0	25.0	73.025	4200	31.1	36.0	496.44	3600.37										
400	1999/08/20	23:00:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3610.71	0.080	8.0	0.074	1.766	19.434	0.006	0.154	1.424	7	10000
401		23:30:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3621.05										
402	1999/08/21	00:00:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3631.40	0.060	10.0	0.054	1.296	19.488	0.006	0.144	1.430	7	10000
403		00:00:00	PRODUCTION TOTALS: Cum Gas = 3631.40 E3m3, Cum H2O = 1.430 m3, Cum Cond = 19.488 m3. A.P.I = 48.2 @ 15°C. Gastec = 0ppm.																		
404		00:30:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3641.74										
405		01:00:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3652.08	0.080	8.0	0.074	1.766	19.561	0.006	0.154	1.436	7	8000
406		01:30:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3662.42										
407	1999/08/21	02:00:00	5544	0	24.0	73.025	4200	31.1	36.0	496.44	3672.77	0.070	9.0	0.064	1.529	19.625	0.006	0.151	1.442	7	
408		02:30:00	5550	0	24.0	73.025	4200	31.1	36.0	496.44	3683.11										8000
409		03:00:00	5550	0	24.0	73.025	4200	31.1	36.0	496.44	3693.45	0.060	9.0	0.055	1.310	19.680	0.005	0.130	1.448	7	
410		03:30:00	5544	0	23.0	73.025	4200	31.1	36.0	496.44	3703.79										10000
411		04:00:00	5536	0	23.0	73.025	4200	31.1	36.0	496.44	3714.14	0.070	9.0	0.064	1.529	19.743	0.006	0.151	1.454	7	
412		04:30:00	5522	0	23.0	73.025	4200	31.0	36.0	495.64	3724.47										
413		05:00:00	5530	0	23.0	73.025	4200	31.0	36.0	495.64	3734.80	0.040	2.0	0.039	0.941	19.782	0.001	0.019	1.455	7	8000
414		05:30:00	5536	0	23.0	73.025	4200	31.0	36.0	495.64	3745.12										
415		06:00:00	5536	0	23.0	73.025	4200	31.0	36.0	495.64	3755.45	0.050	10.0	0.045	1.080	19.827	0.005	0.120	1.460	7	10000
416		06:30:00	5530	0	24.0	73.025	4200	31.1	36.0	496.44	3765.78										
417	1999/08/21	07:00:00	5530	0	24.0	73.025	4200	31.1	36.0	496.44	3776.13	0.098	6.0	0.092	2.211	19.920	0.006	0.141	1.466	7	10000
418		07:30:00	5530	0	24.0	73.025	4200	31.1	36.0	496.44	3786.47										
419		08:00:00	5523	0	24.0	73.025	4200	31.1	36.0	496.44	3796.81	0.144	8.5	0.132	3.162	20.051	0.012	0.294	1.478	7	18000
420		08:30:00	5523	0	24.0	73.025	4200	31.1	36.0	496.44	3807.15										
421		09:00:00	5523	0	24.0	73.025	4200	31.1	36.0	496.44	3817.50	0.098	8.0	0.090	2.164	20.142	0.008	0.188	1.486	7	24000
422		09:30:00	5523	0	24.0	73.025	4200	31.1	36.0	496.44	3827.84										
423		10:00:00	5523	0	25.0	73.025	4200	31.1	36.0	496.44	3838.18	0.052	8.0	0.048	1.148	20.189	0.004	0.100	1.490	7	20000

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
424	1999/08/21	10:30:00	5530	0	25.0	73.025	4200	31.1	36.0	496.44	3848.52										
425		11:00:00	5530	0	25.0	73.025	4200	31.2	36.0	497.24	3858.87	0.072	8.5	0.066	1.581	20.255	0.006	0.147	1.496	7	20000
426		11:30:00	5523	0	25.0	73.025	4200	31.1	36.0	496.44	3869.22										
427	1999/08/21	12:00:00	5523	0	25.0	73.025	4200	31.1	36.0	496.44	3879.57	0.052	6.0	0.049	1.173	20.304	0.003	0.075	1.499	7	24000
428		12:30:00	5523	0	25.0	73.025	4200	31.1	36.0	496.44	3889.91										
429		13:00:00	5523	0	25.0	73.025	4200	31.0	36.0	495.64	3900.24	0.072	4.0	0.069	1.659	20.373	0.003	0.069	1.502	7	16000
430		13:30:00	5523	0	25.0	73.025	4200	31.0	36.0	495.64	3910.57										
431		14:00:00	5523	0	24.0	73.025	4200	31.0	36.0	495.64	3920.90	0.060	5.0	0.057	1.368	20.430	0.003	0.072	1.505	7	18000
432		14:09:00	Open choke to 29.37mm.																		
433		14:30:00	5502	0	24.0	73.025	4200	31.0	36.0	495.64	3931.22										
434		15:00:00	5502	0	24.0	73.025	4200	31.0	36.0	495.64	3941.55	0.052	3.5	0.050	1.204	20.480	0.002	0.044	1.507	7	18000
435		15:30:00	5502	0	24.0	73.025	4200	31.0	36.0	495.64	3951.87										
436		16:00:00	5502	0	24.0	73.025	4200	31.0	36.0	495.64	3962.20	0.066	6.0	0.062	1.489	20.542	0.004	0.095	1.511	7	10000
437	1999/08/21	16:30:00	5502	0	24.0	73.025	4200	31.0	36.0	495.64	3972.52										
438		17:00:00	5502	0	24.0	73.025	4200	31.0	36.0	495.64	3982.85	0.066	5.0	0.063	1.505	20.605	0.003	0.079	1.514	7	12000
439		17:30:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	3993.18										
440		18:00:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	4003.52	0.077	10.0	0.069	1.663	20.674	0.008	0.185	1.522	7	14000
441		18:30:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	4013.86										
442		19:00:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	4024.21	0.060	7.0	0.056	1.339	20.730	0.004	0.101	1.526	7	12000
443		19:30:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	4034.55										
444		20:00:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	4044.89	0.050	7.0	0.046	1.116	20.777	0.004	0.084	1.530	7	10000
445		20:30:00	5502	0	24.0	73.025	4225	30.9	36.0	496.34	4055.23										
446		21:00:00	5502	0	22.0	73.025	4225	30.9	36.0	496.34	4065.57	0.060	6.0	0.056	1.354	20.833	0.004	0.086	1.533	7	12000
447	1999/08/21	21:30:00	5502	0	23.0	73.025	4225	30.9	36.0	496.34	4075.91										
448		22:00:00	5502	0	22.0	73.025	4225	30.9	35.0	497.30	4086.26	0.050	4.0	0.048	1.152	20.881	0.002	0.048	1.535	7	12000
449		22:30:00	5502	0	22.0	73.025	4200	30.8	35.0	494.99	4096.59										
450		22:45:00	Open choke to 30.956mm.																		
451		23:00:00	5453	0	22.0	73.025	4200	30.9	36.0	494.84	4106.91	0.050	5.0	0.048	1.140	20.929	0.003	0.060	1.538	7	10000
452		23:30:00	5447	0	22.0	73.025	4200	31.0	36.0	495.64	4117.22										
453	1999/08/22	00:00:00	5495	0	22.0	73.025	4200	31.3	36.0	498.04	4127.57	0.060	3.0	0.058	1.397	20.987	0.002	0.043	1.540	7	12000
454		00:00:00	PRODUCTION TOTALS: Cum Gas = 4127.57 E3m3, Cum H2O = 1.540 m3, Cum Cond = 20.987 m3. A.P.I = 48.0 @ 15°C. Gastec = 0ppm.																		
455		00:30:00	5481	0	22.0	73.025	4200	31.1	36.0	496.44	4137.93										
456		01:00:00	5447	0	22.0	73.025	4200	31.2	36.0	497.24	4148.28	0.050	6.0	0.047	1.128	21.034	0.003	0.072	1.543	7	12000
457		01:30:00	5460	0	22.0	73.025	4200	31.2	36.0	497.24	4158.64										
458		02:00:00	5460	0	22.0	73.025	4200	31.2	36.0	497.24	4169.00	0.070	8.0	0.064	1.546	21.098	0.006	0.134	1.548	7	12000
459		02:30:00	5460	0	22.0	73.025	4200	31.2	36.0	497.24	4179.36										
460		03:00:00	5460	0	22.0	73.025	4175	31.1	35.0	495.88	4189.71	0.040	9.0	0.036	0.874	21.135	0.004	0.086	1.552	7	10000
461		03:30:00	5447	0	22.0	73.025	4175	31.1	35.0	495.88	4200.04										
462		04:00:00	5454	0	22.0	73.025	4175	31.1	35.0	495.88	4210.37	0.090	6.0	0.085	2.030	21.219	0.005	0.130	1.557	7	10000
463		04:30:00	5454	0	22.0	73.025	4175	31.1	35.0	495.88	4220.70										
464	1999/08/22	04:35:00	Open choke to 31.75mm.																		
465		05:00:00	5447	0	22.0	73.025	4200	31.1	36.0	496.44	4231.04	0.002	7.0	0.002	0.045	21.221	0.000	0.003	1.557	7	8000
466		05:30:00	5440	0	22.0	73.025	4200	31.1	35.0	497.40	4241.39										
467		06:00:00	5447	0	22.0	73.025	4200	31.1	35.0	497.40	4251.75	0.040	10.0	0.036	0.864	21.257	0.004	0.096	1.561	7	10000
468		06:30:00	5447	0	22.0	73.025	4200	31.1	36.0	496.44	4262.10										
469		07:00:00	5440	0	22.0	73.025	4200	31.1	35.0	497.40	4272.46	0.098	12.0	0.086	2.070	21.343	0.012	0.282	1.573	7	8000
470		07:30:00	5433	0	22.0	73.025	4175	31.1	36.0	494.93	4282.79										

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	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		
471	1999/08/22	07:44:00	Open choke to 33.34mm.																		
472		08:00:00	5406	0	22.0	73.025	4175	31.2	36.0	495.72	4293.11	0.039	3.0	0.038	0.908	21.381	0.001	0.028	1.574	7	10000
473		08:30:00	5406	0	23.0	73.025	4175	31.1	35.0	495.88	4303.44										
474	1999/08/22	09:00:00	5406	0	22.0	73.025	4175	31.1	35.0	495.88	4313.77	0.046	7.0	0.043	1.027	21.424	0.003	0.077	1.577	7	12000
475		09:30:00	5413	0	22.0	73.025	4200	31.1	36.0	496.44	4324.11										
476		10:00:00	5413	0	23.0	73.025	4200	31.2	36.0	497.24	4334.46	0.066	6.0	0.062	1.489	21.486	0.004	0.095	1.581	7	16000
477		10:30:00	5399	0	23.0	73.025	4200	31.2	36.0	497.24	4344.82										
478		11:00:00	5406	0	23.0	73.025	4200	31.2	36.0	497.24	4355.18	0.052	5.0	0.049	1.186	21.535	0.003	0.062	1.584	7	8000
479		11:30:00	5406	0	23.0	73.025	4200	31.2	36.0	497.24	4365.54										
480		12:00:00	5406	0	23.0	73.025	4175	31.1	36.0	494.93	4375.87	0.033	8.5	0.030	0.725	21.566	0.003	0.067	1.587	7	4000
481		12:30:00	5385	0	23.0	73.025	4150	31.0	36.0	492.62	4386.16										
482		12:32:00	Increase choke to 35.72mm.																		
483		13:00:00	5371	0	24.0	73.025	4175	31.2	36.0	495.72	4396.45	0.033	6.0	0.031	0.744	21.597	0.002	0.048	1.589	7	6000
484	1999/08/22	13:30:00	5378	0	24.0	73.025	4200	31.2	36.0	497.24	4406.80										
485		14:00:00	5385	0	24.0	73.025	4200	31.2	36.0	497.24	4417.16	0.052	2.0	0.051	1.223	21.648	0.001	0.025	1.590	7	8000
486		14:30:00	5378	0	24.0	73.025	4200	31.2	36.0	497.24	4427.51										
487		15:00:00	5364	0	24.0	73.025	4200	31.1	36.0	496.44	4437.87	0.330	10.5	0.295	7.088	21.943	0.035	0.832	1.624	7	14000
488		15:30:00	5364	0	24.0	73.025	4225	31.2	36.0	498.75	4448.23										
489		16:00:00	5371	0	25.0	73.025	4225	31.2	36.0	498.75	4458.62	0.066	4.0	0.063	1.521	22.006	0.003	0.063	1.627	7	16000
490		16:30:00	5385	0	26.0	73.025	4225	31.2	36.0	498.75	4469.01										
491		17:00:00	5378	0	26.0	73.025	4225	31.2	36.0	498.75	4479.40	0.072	7.5	0.067	1.598	22.073	0.005	0.130	1.632	7	12000
492		17:30:00	5385	0	27.0	73.025	4225	31.2	36.0	498.75	4489.79										
493		18:00:00	5371	0	27.0	73.025	4225	31.2	36.0	498.75	4500.19	0.060	5.5	0.057	1.361	22.130	0.003	0.079	1.636	7	14000
494	1999/08/22	18:30:00	5378	0	25.0	73.025	4225	31.2	35.0	499.71	4510.59										
495		19:00:00	5378	0	25.0	73.025	4225	31.2	36.0	498.75	4520.99	0.046	7.0	0.043	1.027	22.172	0.003	0.077	1.639	7	10000
496		19:30:00	5378	0	22.0	73.025	4225	31.2	36.0	498.75	4531.38										
497		20:00:00	5378	0	22.0	73.025	4250	31.2	36.0	500.26	4541.78	0.050	7.0	0.046	1.116	22.219	0.004	0.084	1.642	7	10000
498		20:30:00	5378	0	23.0	73.025	4250	31.2	36.0	500.26	4552.21										
499		21:00:00	5378	0	23.0	73.025	4250	31.2	36.0	500.26	4562.63	0.030	7.0	0.028	0.670	22.247	0.002	0.050	1.645	7	12000
500		21:30:00	5378	0	22.0	73.025	4250	31.2	36.0	500.26	4573.05										
501		22:00:00	5378	0	22.0	73.025	4250	31.1	36.0	499.45	4583.46	0.080	7.0	0.074	1.786	22.321	0.006	0.134	1.650	7	10000
502		22:30:00	5378	0	22.0	73.025	4250	31.1	36.0	499.45	4593.87										
503		23:00:00	5378	0	22.0	73.025	4250	31.1	36.0	499.45	4604.27	0.050	10.0	0.045	1.080	22.366	0.005	0.120	1.655	7	12000
504	1999/08/22	23:30:00	5370	0	22.0	73.025	4250	31.1	36.0	499.45	4614.68										
505	1999/08/23	00:00:00	5370	0	22.0	73.025	4250	31.1	36.0	499.45	4625.08	0.050	8.0	0.046	1.104	22.412	0.004	0.096	1.659	7	12000
506		00:00:00	PRODUCTION TOTALS: Cum Gas = 4625.08 E3m3, Cum H2O = 1.659 m3, Cum Cond = 22.412 m3. A.P.I. = 49.2 @ 15°C. Gastec = 0ppm.																		
507		00:30:00	5370	0	22.0	73.025	4250	31.1	36.0	499.45	4635.49										
508		01:00:00	5370	0	22.0	73.025	4250	31.1	36.0	499.45	4645.89	0.030	10.0	0.027	0.648	22.439	0.003	0.072	1.662	7	14000
509		01:30:00	5370	0	22.0	73.025	4250	31.1	36.0	499.45	4656.30										
510		02:00:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4666.70	0.060	9.0	0.055	1.310	22.494	0.005	0.130	1.668	7	10000
511	1999/08/23	02:30:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4677.09										
512		03:00:00	5370	0	22.0	73.025	4250	30.9	36.0	497.84	4687.47	0.060	8.0	0.055	1.325	22.549	0.005	0.115	1.672	7	12000
513		03:30:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4697.85										
514		04:00:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4708.23	0.050	10.0	0.045	1.080	22.594	0.005	0.120	1.677	7	12000
515		04:30:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4718.62										
516		05:00:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4729.01	0.040	10.0	0.036	0.864	22.630	0.004	0.096	1.681	7	12000
517		05:30:00	5370	0	22.0	73.025	4250	31.0	36.0	498.65	4739.40										

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
518	1999/08/23	06:00:00	5370	0	22.0	73.025	4250	30.8	36.0	497.04	4749.77	0.020	4.0	0.019	0.461	22.649	0.001	0.019	1.682	7	10000
519		06:30:00	5364	0	22.0	73.025	4225	30.8	36.0	495.54	4760.11										
520		07:00:00	5364	0	22.0	73.025	4225	30.8	36.0	495.54	4770.43	0.072	9.0	0.066	1.572	22.715	0.006	0.156	1.689	7	14000
521	1999/08/23	07:30:00	5350	0	22.0	73.025	4200	30.9	35.0	495.80	4780.76										
522		08:00:00	5345	0	22.0	73.025	4200	31.0	35.0	496.60	4791.10	0.033	7.5	0.031	0.733	22.745	0.002	0.059	1.691	7	10000
523		08:30:00	5350	0	21.0	73.025	4200	31.1	36.0	496.44	4801.44										
524		09:00:00	5350	0	21.0	73.025	4200	31.1	36.0	496.44	4811.79	0.157	3.0	0.152	3.655	22.897	0.005	0.113	1.696	7	12000
525		09:30:00	5344	0	22.0	73.025	4200	31.0	36.0	495.64	4822.12										
526		10:00:00	5350	0	22.0	73.025	4200	31.0	36.0	495.64	4832.45	0.157	7.0	0.146	3.504	23.044	0.011	0.264	1.707	7	14000
527		10:30:00	5357	0	22.0	73.025	4200	31.0	36.0	495.64	4842.77										
528		11:00:00	5364	0	22.0	73.025	4200	30.9	36.0	494.84	4853.09	0.077	5.0	0.073	1.756	23.117	0.004	0.092	1.711	7	18000
529		11:15:00	Increase choke to 38.89mm.																		
530		11:30:00	5316	0	22.0	73.025	4200	31.0	36.0	495.64	4863.41										
531	1999/08/23	12:00:00	5323	0	23.0	73.025	4200	31.1	36.0	496.44	4873.74	0.072	10.0	0.065	1.555	23.181	0.007	0.173	1.718	7	20000
532		12:30:00	5330	0	23.0	73.025	4200	31.1	36.0	496.44	4884.08										
533		13:00:00	5323	0	23.0	73.025	4200	31.1	36.0	496.44	4894.43	0.052	4.0	0.050	1.198	23.231	0.002	0.050	1.720	7	18000
534		13:30:00	5309	0	24.0	73.025	4200	31.1	36.0	496.44	4904.77										
535		14:00:00	5316	0	24.0	73.025	4200	31.1	36.0	496.44	4915.11	0.092	5.0	0.087	2.098	23.319	0.005	0.110	1.725	7	18000
536		14:30:00	5330	0	24.0	73.025	4200	31.1	36.0	496.44	4925.45										
537		15:00:00	5330	0	25.0	73.025	4225	31.0	36.0	497.15	4935.80	0.046	2.5	0.045	1.076	23.364	0.001	0.028	1.726	7	22000
538		15:30:00	5316	0	25.0	73.025	4225	31.1	36.0	497.95	4946.17										
539		16:00:00	5323	0	26.0	73.025	4225	31.1	36.0	497.95	4956.54	0.098	2.0	0.096	2.305	23.460	0.002	0.047	1.728	7	20000
540		16:30:00	5330	0	24.0	73.025	4225	31.2	36.0	498.75	4966.92										
541	1999/08/23	17:00:00	5330	0	26.0	73.025	4225	31.2	36.0	498.75	4977.31	0.052	2.0	0.051	1.223	23.511	0.001	0.025	1.729	7	18000
542		17:30:00	5323	0	24.0	73.025	4225	31.1	36.0	497.95	4987.70										
543		18:00:00	5316	0	25.0	73.025	4225	30.9	36.0	496.34	4998.05	0.052	3.0	0.050	1.211	23.561	0.002	0.037	1.730	7	14000
544		18:30:00	5330	0	25.0	73.025	4225	30.9	36.0	496.34	5008.39										
545		19:00:00	5330	0	25.0	73.025	4225	30.8	36.0	495.54	5018.73	0.046	5.0	0.044	1.049	23.605	0.002	0.055	1.733	7	16000
546		19:30:00	5336	0	25.0	73.025	4300	30.8	37.0	499.06	5029.09										
547		20:00:00	5336	0	25.0	73.025	4275	30.8	37.0	497.57	5039.47	0.020	8.0	0.018	0.442	23.623	0.002	0.038	1.734	7	14000
548		20:30:00	5336	0	24.0	73.025	4275	30.9	37.0	498.38	5049.84										
549		21:00:00	5336	0	24.0	73.025	4275	30.9	37.0	498.38	5060.23	0.100	10.0	0.090	2.160	23.713	0.010	0.240	1.744	7	14000
550		21:30:00	5336	0	24.0	73.025	4275	30.9	37.0	498.38	5070.61										
551	1999/08/23	22:00:00	5336	0	24.0	73.025	4275	30.9	37.0	498.38	5080.99	0.060	8.0	0.055	1.325	23.768	0.005	0.115	1.749	7	16000
552		22:30:00	5336	0	24.0	73.025	4250	30.9	37.0	496.89	5091.36										
553		23:00:00	5336	0	24.0	73.025	4250	30.9	37.0	496.89	5101.71	0.060	5.0	0.057	1.368	23.825	0.003	0.072	1.752	7	12000
554		23:30:00	5336	0	24.0	73.025	4250	30.7	37.0	495.27	5112.05										
555	1999/08/24	00:00:00	5329	0	23.0	73.025	4250	30.7	36.0	496.23	5122.37	0.060	7.0	0.056	1.339	23.881	0.004	0.101	1.756	7	12000
556		00:00:00	PRODUCTION TOTALS: Cum Gas = 5122.37 E3m3, Cum H2O = 1.756 m3, Cum Cond = 23.881 m3. A.P.I = 47.9 @ 15°C. Gastec = 0ppm.																		
557		00:30:00	5329	0	23.0	73.025	4250	30.8	36.0	497.04	5132.72										
558	1999/08/24	01:00:00	5322	0	22.0	73.025	4250	30.8	36.0	497.04	5143.08	0.060	9.0	0.055	1.310	23.936	0.005	0.130	1.762	7	12000
559		01:30:00	5315	0	22.0	73.025	4250	30.8	36.0	497.04	5153.43										
560		02:00:00	5322	0	22.0	73.025	4225	30.8	36.0	495.54	5163.77	0.040	7.0	0.037	0.893	23.973	0.003	0.067	1.764	7	12000
561		02:30:00	5322	0	22.0	73.025	4225	31.0	36.0	497.15	5174.11										
562		03:00:00	5322	0	22.0	73.025	4200	30.9	36.0	494.84	5184.44	0.650	14.0	0.559	13.416	24.532	0.091	2.184	1.855	7	10000
563		03:30:00	5316	0	22.0	73.025	4200	30.9	36.0	494.84	5194.75										
564		03:35:00	Open choke to 40.48mm.																		

FieldNotes Field Measurements

	Date	Clock Time	Pt	Pc	WHT	Orifice	Static	Diff	Temp	Gas Rate	Cum Gas	Fld Gain	BSW	Oil Gain	Oil Rate	Cum Oil	H2O Gain	H2O Rate	Cum H2O	Ph	Salinity
	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		ppm
565	1999/08/24	04:00:00	5288	0	22.0	73.025	4200	30.9	36.0	494.84	5205.06	0.070	9.0	0.064	1.529	24.596	0.006	0.151	1.862	7	14000
566		04:30:00	5303	0	23.0	73.025	4200	30.9	36.0	494.84	5215.37										
567		05:00:00	5303	0	23.0	73.025	4200	30.9	36.0	494.84	5225.68	0.065	6.0	0.061	1.466	24.657	0.004	0.094	1.866	7	14000
568	1999/08/24	05:05:00	Open choke to 42.07mm.																		
569		05:30:00	5295	0	22.0	73.025	4200	30.9	36.0	494.84	5235.99										
570		06:00:00	5295	0	22.0	73.025	4200	30.9	36.0	494.84	5246.30	0.040	6.0	0.038	0.902	24.694	0.002	0.058	1.868	7	14000
571		06:30:00	5295	0	22.0	73.025	4200	30.9	36.0	494.84	5256.61										
572		07:00:00	5295	0	22.0	73.025	4200	30.9	36.0	494.84	5266.92	0.052	14.0	0.045	1.073	24.739	0.007	0.175	1.875	7	16000
573		07:30:00	5275	0	22.0	73.025	4200	30.8	36.0	494.04	5277.22										
574		07:34:00	Increase choke to 50.8mm, choke is now full open.																		
575		08:00:00	5254	0	22.0	73.025	4200	30.8	36.0	494.04	5287.51	0.170	5.0	0.162	3.876	24.901	0.009	0.204	1.884	7	14000
576		08:30:00	5254	0	22.0	73.025	4200	30.9	36.0	494.84	5297.81										
577		09:00:00	5254	0	22.0	73.025	4200	30.9	36.0	494.84	5308.12	0.059	7.5	0.055	1.310	24.955	0.004	0.106	1.888	7	14000
578		09:30:00	5261	0	22.0	73.025	4200	30.8	36.0	494.04	5318.42										
579		10:00:00	5254	0	22.0	73.025	4200	30.8	36.0	494.04	5328.71	0.039	12.5	0.034	0.819	24.989	0.005	0.117	1.893	7	12000
580		10:30:00	5261	0	23.0	73.025	4200	30.8	36.0	494.04	5339.01										
581	1999/08/24	11:00:00	5261	0	23.0	73.025	4200	30.8	36.0	494.04	5349.30	0.059	10.0	0.053	1.274	25.042	0.006	0.142	1.899	7	12000
582		11:30:00	5261	0	22.0	73.025	4225	30.7	36.0	494.73	5359.60										
583		12:00:00	5261	0	23.0	73.025	4225	30.7	36.0	494.73	5369.90	0.072	10.0	0.065	1.555	25.107	0.007	0.173	1.906	7	12000
584		12:30:00	5261	0	22.0	73.025	4225	30.8	36.0	495.54	5380.22										
585		13:00:00	5261	0	22.0	73.025	4225	30.8	36.0	495.54	5390.54	0.060	4.0	0.058	1.382	25.165	0.002	0.058	1.909	7	12000
586		13:30:00	5268	0	23.0	73.025	4225	30.8	36.0	495.54	5400.87										
587		14:00:00	5268	0	23.0	73.025	4225	30.8	36.0	495.54	5411.19	0.052	3.0	0.050	1.211	25.215	0.002	0.037	1.910	7	10000
588		14:30:00	5268	0	23.0	73.025	4225	30.8	36.0	495.54	5421.52										
589		15:00:00	5268	0	24.0	73.025	4225	30.8	36.0	495.54	5431.84	0.066	2.0	0.065	1.552	25.280	0.001	0.032	1.911	7	12000
590		15:30:00	5254	0	24.0	73.025	4225	30.9	36.0	496.34	5442.17										
591		16:00:00	5254	0	24.0	73.025	4225	31.0	36.0	497.15	5452.52	0.072	3.0	0.070	1.676	25.350	0.002	0.052	1.914	7	14000
592		16:30:00	5261	0	24.0	73.025	4225	31.0	36.0	497.15	5462.88										
593		17:00:00	5247	0	24.0	73.025	4225	31.0	36.0	497.15	5473.23	0.072	8.0	0.066	1.590	25.416	0.006	0.138	1.919	7	8000
594	1999/08/24	17:30:00	5254	0	24.0	73.025	4225	30.9	36.0	496.34	5483.58										
595		18:00:00	5254	0	24.0	73.025	4225	30.9	36.0	496.34	5493.92	0.072	4.0	0.069	1.659	25.485	0.003	0.069	1.922	7	10000
596		18:30:00	5261	0	24.0	73.025	4225	30.9	36.0	496.34	5504.26	0.039	5.0	0.037	1.778	25.522	0.002	0.094	1.924	7	10000
597		18:30:00	Shut in at wing valve. Probe Tech tool to take buildups. Crew released.																		
598		18:31:00				0.000	0	0.0	0.0	0.00	5504.26	0.000	0.0	0.000	0.000	25.522	0.000	0.000	1.924		

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