

PARAMOUNT RESOURCES LTD.

PARAMOUNT et al CAMERON

B-08-60-10-11-73

300/B-08-60-10-11-73/00

SLAVE POINT/ SULPHUR POINT

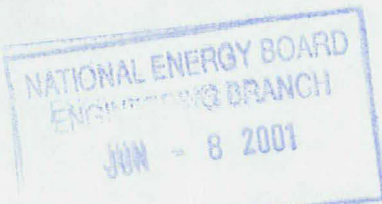
MAR 21-22, 2001

Well Test Data

Contact

GRANT HARTER
Well Testing Manager

Nisku: (780) 955-7525



GENERAL INFORMATION

Client Information:

Company: PARAMOUNT RESOURCES LTD.

Contact: PARAMOUNT RESOURCES LTD.

Phone: 403-997-2295 Fax: e-mail:

Site Information:

Contact: JOHN WRIGHT

Phone: Fax: e-mail:

Well Information:

Name: PARAMOUNT et al CAMERON B-08-60-10-11-73

Operator: PARAMOUNT RESOURCES LTD.

Location-Downhole: 300/B-08-60-10-11-73/0

Location-Surface: B-08-60-10-11-73

Test Information:

Company: SOLID PRODUCTION SERVICES LTD.

Representative: GRANT HARTER

Supervisor: JAMES BEEDLE

Test Type: SINGLE POINT TEST

Job Number: PGP-542

Test Unit: PT-101

Start Date: 2001/03/21

Start Time: 14:50:00

End Date: 2001/03/22

End Time: 19:40:00

Report Date: 20001/05/04

Prepared By: LAURA D. DOMINICK

Remarks:

Qualified By:

WELL INFORMATION

Well Name : PARAMOUNT et al CAMERON B-08-60-10-11-73

Well Operator : PARAMOUNT RESOURCES LTD.

Well Location : 300/B-08-60-10-11-73/0

Location-Surface : B-08-60-10-11-73

Field : CAMERON

Well Type : Vertical

Pool : UNDEFINED

Formation : SLAVE POINT/ SULP

Perforation Type :			Producing Through : Tubing	Size	73.00 mm
Pool Datum	m	CF	Elevation Referenced From	789.90 m	KB
Datum Depth	m	CF	Elevation Referenced To	786.21 m	GL
			Offset	3.69 m	

Production Intervals

Production Interval & MPP Reference To : KB

MPP Pressure Reference : None

	From - m	To - m	Depth - m	Pressure - kPa
1.	1353.50	1421.00	1.	1387.25
2.	1410.00	1420.00	2.	1415.00
3.			3.	
4.			4.	
5.			5.	
6.			6.	
7.			7.	
8.			8.	
9.			9.	
10.			10.	
11.			11.	
12.			12.	

Remarks :

PARAMOUNT RESOURCES LTD.
300/B-08-60-10-11-73/0
Start Test Date: 2001/03/21
Final Test Date: 2001/03/22

FieldNotes METER REPORT

PARAMOUNT et al CAMERON B-08-60-10-11-73
Formation: SLAVE POINT/ SULPHUR POINT
Pool: UNDEFINED
Job Number: PGP-542

Gas Meter 1

Meter Type:	Orifice Meter
Meter Size:	77.93 mm
Previous Gas Production:	0.000 10 ³ m ³
Tap Type:	Flange
Tap Location:	Downstream
Gas Gravity (G):	0.650
CO ₂ :	0.00 %
H ₂ S:	0.00 %
N ₂ :	0.00 %
Critical Temperature (T _C):	207.76 K
Critical Pressure (P _C):	4625.74 kPa

Oil Meter 1

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

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Temp	Csg Pres	Static Pres	Diff Pres	Meter Temp	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	BSW Vol
	yyyy/mm/d	hh:mm:s	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³
1	2001/03/20	08:00:00	0.00	Rig out. Wait for trucks.															
2		08:00:00	0.00		0.00									0.00	100	0.00	0.00	0.00	0.00
3		14:00:00	6.00	Spot equipment. Start rigging in.															
4		22:30:00	14.50	Finish for night due to temp.															
5	2001/03/21	08:00:00	24.00	Arrive on location. Finish rigging in.															
6		14:50:00	30.83			9050													
7		15:05:00	31.08	Open well on 12.70mm adjustable choke.															
8		15:10:00	31.17	12.70		7225													
9		15:15:00	31.25	Shut in well. Repair broken sight glass.															
10		17:45:00	33.75			9050													
11		17:46:00	33.77	Open well on 12.50mm Adjustable choke.															
12		17:50:00	33.83	12.70		3925													
13		17:53:00	33.88	Fluid to surface. Salinity 74,000ppm ph=7															
14				Increase choke to 25.4mm.															
15		17:54:00	33.90		0.00				0	0.00	0	0.00	0.00						
16		17:55:00	33.92	25.40	57.15	1825	6		28	4.98	15	19.50	0.01						
17		18:00:00	34.00			1800	8		28	3.98	16	17.40	0.08	3.15		3.15	0.00	0.00	3.15
18		18:15:00	34.25			1955	15		55	7.96	16	27.31	0.31						
19		18:30:00	34.50			2220	17		83	11.45	17	35.63	0.64	11.07		11.07	0.00	0.00	11.07
20		18:44:00	34.73	Decrease choke to 12.70mm due to full tank.															
21		18:45:00	34.75	12.70		2260	21		55	9.95	18	30.46	0.98						
22		19:00:00	35.00			2210	19		55	7.96	19	27.17	1.28						
23		19:20:00	35.33	Decrease choke to 10.31mm. Salinity = 74,000ppm Ph=7															
24		19:30:00	35.50	10.31		2220	19		48	6.72	19	24.36	1.82						
25		19:45:00	35.75			2040	22							17.07		17.07	0.00	0.00	17.07
26		19:45:00	35.75	Shut in well. Wait for tank truck. Ship out 15m ³ .															
27		21:44:00	37.73			3400													
28		21:45:00	37.75	Open well on 12.70mm adjustable choke.															
29				Fluid to surface. Salinity 74,000ppm ph=7															

2001/03/2(08:00:00 To 2001/03/2)08:00:00

Gas		Cum.	10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	0.000	Cum.	0.000 m ³

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Temp	Csg Pres	Static Pres	Diff Pres	Meter Temp	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³
30	2001/03/21	21:55:00	37.92		0.00				0	0.00	0	0.00	1.82						
31		21:55:00	37.92	12.70	57.15	1450	29		110	6.47	10	29.09	1.82						
32		22:00:00	38.00			1450	30		97	3.23	10	19.85	1.90	6.09		17.07	0.00	0.00	17.07
33		22:15:00	38.25			750	18		62	2.74	20	16.23	2.09						
34		22:30:00	38.50			750	18		21	2.74	18	13.96	2.25	10.56		21.54	0.00	0.00	21.54
35		22:31:00	38.52	Shut in well. Ship out 8.291m ³ .															
36		22:35:00	38.58			750													
37		22:40:00	38.67			750													
38		22:45:00	38.75			750													
39		23:00:00	39.00			780													
40	2001/03/22	11:30:00	51.50	Arrive on location.															
41		11:55:00	51.92			600													
42		12:00:00	52.00	Open well on 12.70mm adjustable choke.															
43		12:05:00	52.08	12.70		2985	1												
44		12:10:00	52.17			3600	5												
45		12:11:00	52.18	Decrease choke to 11.90mm.															
46		12:15:00	52.25	11.90		3965	5												
47		12:21:00	52.35	Increase choke to 13.49mm.															
48		12:23:00	52.38	Fluid to surface. Salinity = 76,000ppm ph=7															
49		12:25:00	52.42	Increase choke to 25.4mm															
50		12:30:00	52.50	25.40	57.15	3990	7		186	19.91	14	59.62	2.46	3.11		21.54	0.00	0.00	21.54
51		12:45:00	52.75			3425	10		97	11.94	16	37.86	2.96	4.32		22.76	0.00	0.00	22.76
52		13:00:00	53.00			2400	12		83	9.95	20	33.03	3.33	5.99		24.42	0.00	0.00	24.42
53		13:05:00	53.08	Increase choke to 50.80mm by-pass. Salinity 76,000ppm ph=7															
54		13:30:00	53.50	50.80		1995	14		90	15.93	23	42.50	4.12	8.96		27.39	0.00	0.00	27.39
55		14:00:00	54.00			1700	16		97	12.94	25	38.82	4.97	12.47		30.90	0.00	0.00	30.90
56		14:00:00	54.00	Ship water to tank truck. Salinity 78,000ppm ph=7															
57		14:10:00	54.17	Stop shipping.															
58		14:30:00	54.50			1275	17		90	11.94	26	36.54	5.75	4.73		32.16	0.00	0.00	32.16

2001/03/21 08:00:00 To 2001/03/22 11:30:00

Gas 2.250 Cum. 2.250 10³m³

Oil 0.000 Cum. 0.000 m³

Water 21.544 Cum. 21.544 m³

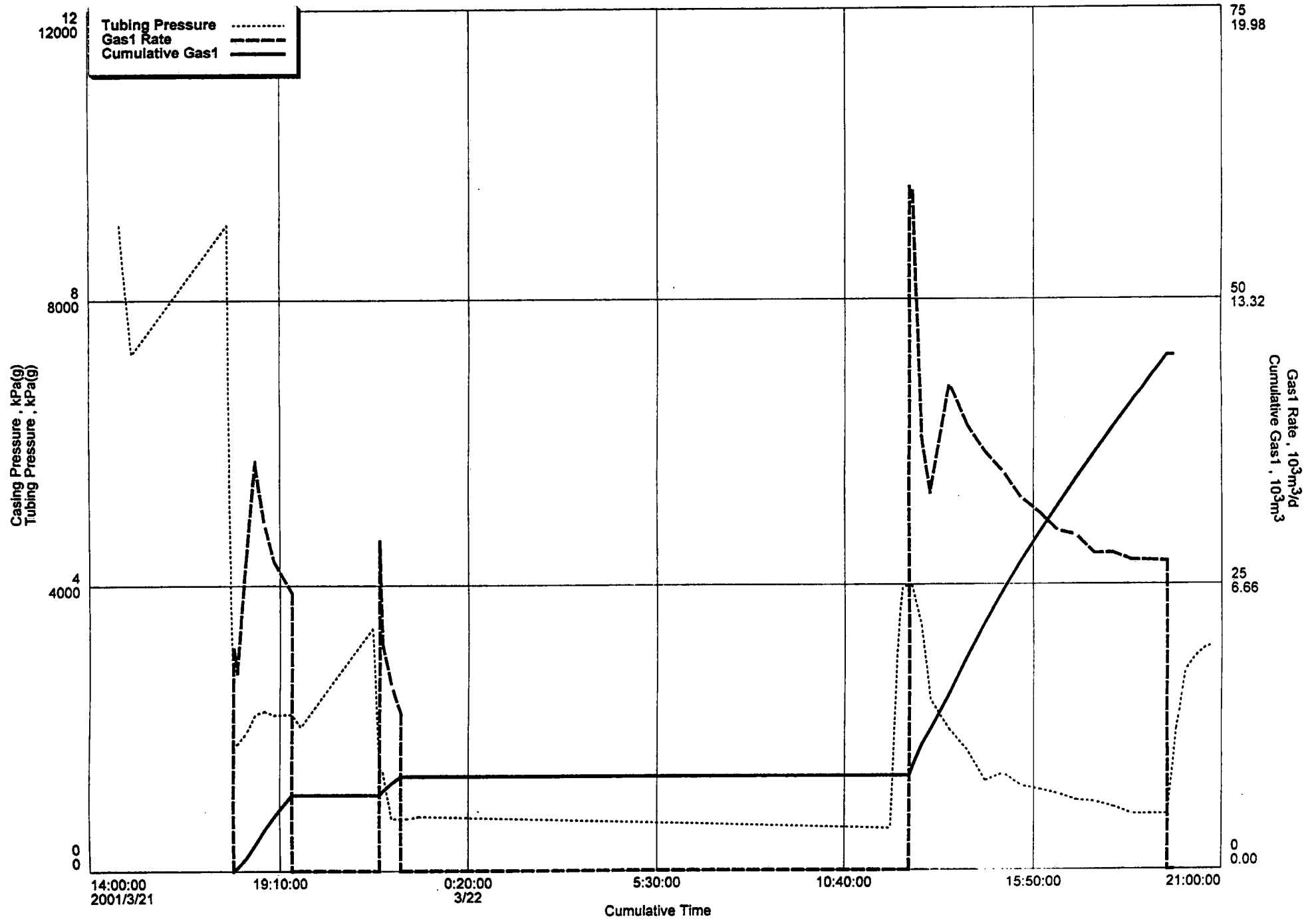
	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Temp	Csg Pres	Static Pres	Diff Pres	Meter Temp	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³
59	2001/03/22	15:00:00	55.00			1380	17		83	11.45	30	34.86	6.50	6.12		33.56	0.00	0.00	33.56
60		15:00:00	55.00	Salinity = 80,000ppm ph=7															
61		15:30:00	55.50			1200	17		76	10.45	31	32.58	7.20	8.51		35.94	0.00	0.00	35.94
62		16:00:00	56.00			1150	16		69	9.95	28	31.30	7.86	9.00		36.44	0.00	0.00	36.44
63		16:00:00	56.00	Ship fluid to tank truck.															
64		16:10:00	56.17	Stop shipping. Shipped 5.94m ³															
65		16:30:00	56.50			1090	15		62	9.21	23	29.70	8.50	3.74		37.11	0.00	0.00	37.11
66		16:30:00	56.50	Salinity = 80,000ppm ph=7															
67		17:00:00	57.00			1000	14		62	8.96	22	29.34	9.11	4.41		37.79	0.00	0.00	37.79
68		17:30:00	57.50			975	14		62	7.96	21	27.69	9.71	5.27		38.64	0.00	0.00	38.64
69		18:00:00	58.00			900	13		62	7.96	20	27.74	10.29	5.81		39.18	0.00	0.00	39.18
70		18:30:00	58.50			800	12		55	7.96	20	27.12	10.86	6.39		39.77	0.00	0.00	39.77
71		19:00:00	59.00			800	11		55	7.96	21	27.07	11.42	6.93		40.31	0.00	0.00	40.31
72		19:30:00	59.50			800	11		55	7.96	22	27.03	11.99	7.29		40.67	0.00	0.00	40.67
73		19:40:00	59.67		0.00				0	0.00	0	0.00	11.99						
74				Shut in well. Start build-ups. Ship out 7.291m ³ .															
75		19:45:00	59.75			2000													
76		19:50:00	59.83			2200													
77		19:55:00	59.92			2500													
78		20:00:00	60.00			2800													
79		20:15:00	60.25			2975													
80		20:30:00	60.50			3100													
81		20:45:00	60.75			3150													
82		20:45:00	60.75	No samples required.															

2001/03/22 11:30:00 To 2001/03/22 20:45:00

Gas 9.736 Cum. 11.985 10³m³Oil 0.000 Cum. 0.000 m³Water 19.125 Cum. 40.669 m³

PARAMOUNT RESOURCES LTD.
 300/B-08-60-10-11-73/0
 Start Test Date: 2001/03/21
 Final Test Date: 2001/03/22

PARAMOUNT et al CAMERON B-08-60-10-11-73
 Formation: SLAVE POINT/ SULPHUR POINT
 Pool: UNDEFINED
 Job Number: PGP-542



WELL INFORMATION:

Well Name: Paramount et al Cameron B-08
Area: 60° 10' N, 117° 30' W
UWI: 300B086010117300
ADW: 1397
Spud Date: Jan 19, 1989
Rig Release Date: Feb 9, 1989
Well Status: Suspended Sulphur Point gas well.

KB Elevation: 789.90 m
Ground Elevation: 786.21 m
PBTD: 1537 mKB
TD: 1560 mKB

Surface Hole: 311 mm to 392 mKB
Surface Casing: 244.5 mm, 53.6 kg/m, J55, LT&C set at 391.7 mKB.
Cemented with 31 t class 'G' cement plus 3% CaCl₂. Cement returns to surface.

Main Hole: 222 mm to 1560 mKB
Production Casing: 139.7 mm, 20.8 kg/m, J-55, casing landed at 1559.95 mKB.
Cemented in two stages with 6.5 t class 'G' + 0.75% T-10 + 0.2% R-5 and 39.5 t 0:1:8 cement + 0.75% T-10. Stage tool at 1347 mKB and Baker ECP at 1346.5 mKB.

Cores: None.

DST's #1: Slave Point 1353 - 1370 mKB
PF: 10 mins PFP: N/A
ISI: 60 mins ISIP: N/A
VO: N/A FPF: N/A
FSI: N/A FSIP: N/A

PF: WAB steady throughout. NGTS.
VO: Dead on VO.
REC: 60 m inhibitor and water cut drilling mud.
REM: Misrun, tool plugged on preflow.

#2: Keg River 1512 - 1522 mKB
PF: 9 mins PFP: 10388 KPa
ISI: 28 mins ISIP: 10388 KPa
VO: 60 mins FPF: 10388 KPa
FSI: 114 mins FSIP: 10466 KPa

PF: WAB to FAB in 5 minutes. Steady.
VO: FAB after 10 minutes, declining. NGTS.
REC: 156 m drilling mud on test 2 & 3 combined.
REM: Misrun, tool plugged during test.

#3: Sulphur Point 1410 - 1420 mKB

PF: 13 mins PFP: 1043 KPa
ISI: 28 mins ISIP: 9733 KPa
VO: 58ins FPF: 1491 KPa
FSI: 121 mins FSIP: 9672 KPa

PF: SAB after 3 minutes. GTS in 7 minutes.
VO: VSGB throughout. Final rate = $8500 \text{ m}^3/\text{day}$.
REC: 156 m drilling mud on test 2 & 3 combined.

Existing Producing Zones: Keg River: 1512.0 - 1521.5 mKB
Estimated BHP: 10560 kPa
H₂S Content: 1 - 2%.

Existing Producing Zones: Sulphur Point: 1403.0 - 1406.0 & 1408.0 - 1409.0 & 1412.0 - 1421.0 mKB
Estimated BHP: 9600 kPa
H₂S Content: 1 - 2%.

Proposed Producing Zones: Slave Point: 1353.5 - 1358.0 - 1363.5 mKB
Estimated BHP: 11150 kPa
H₂S Content: 1 - 2%.

PRODUCTION TESTING
JOB INFORMATION SHEET

CUSTOMER:

PARAMOUNT

JOB NO.:

GP539

START DATE:

LOCATION:

CONTACT:

John Wright

PHONE NO.:

403-997-2295

REP. ON LOCATION:

JAMES Bealle

MOBILE:

318-2603

WELL INFORMATION:

SWEET ()

ZONE:

SOUR ()

WELLHEAD CONNECTION:

LABORATORY TO BE USED:

EQUIPMENT

PT 101

CREW

4 MAN

TRUCKS

MOBILES

PROGRAMME:

DIRECTIONS:

From Just before Indian Cabin sign
Turn Left go across tracks
stay Right on First 2 y's go to
Km 32 Right 8 Km to Camp

* Bonus 152 signs