



" A Plains Energy Services Company "

N.E.B. COPY

Paramount Resources Ltd.

F-36-60-10-23-15

Underbalanced Drilling

98/12/19 – 98/12/30

Prepare by
Entest Corp.
February 22, 1999.



CUSTOMER: PARAMONT RESOURCES LTD.

J.L NAME / No. F-36-60-10-023

TYPE TEST: U.B.D.

COMPANY REP: DENNIS McCULLOUGH

FIELD OR AREA: FT. LEARD N.W.T.

ZONE: TIGHT HOLE

METER RUN: 102.26 mm

GAS DENSITY: 0.65 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy	Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp °C	Static Press. kPa	Diff. Press. kPa	Meter Temp °C	Orifice Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr M³	Cum HC M³	Inc H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
19/12/98	10:00		LOADED EQUIPMENT IN G.P. AND TRAVELED TO FORT NELSON																
20/12/98	12:30		TRAVELED FROM FORT NELSON TO ABOVE LOCATION @ FORT LEARD N.W.T. UNLOAD EQUIPMENT																
21/12/98	00:30		STARTED RIGGING IN SECONDARY FLOW LINE																
	08:00		SPOTTED EQUIPMENT																
	12:00		STARTED RIGGING IN EQUIPMENT AND RAISED FLARE STACK																
22/12/98	02:00		PRESSURE TEST FLOW LINE AND ESD. VALVE TO 21,000 kPa / PROBLEM WITH ESD TEST																
	08:00		PRESSURE TESTED ESD VALVE TO 14,000 kPa																
	09:00		COMPLETED RIGGING IN EQUIPMENT																
	12:00		RIG STARTED PICKING UP PIPE																
	23:30		RUN IN TO A DEPTH OF 850 METERS																
23/12/98	00:15		FROZE FLOW LINE WHILE TRIPPING IN HOLE																
	04:30		UNTHAW FLOW LINE																
	06:00		FLANGE FLOW LINE TOGETHER GOT READY TO DISPLACE HOLE WITH N2																
	08:00		UNTHAW ICE PLUG IN MANIFOLD SHACK																
	08:30		STARTED TO DISPLACE WATER FROM HOLE WITH N2 / DISPLACE 12 m3 OF H2O																
	11:00		RIG STARTED TO TALLY PIPE TO FINISH RUNNING IN HOLE																
	16:45		TAG SHOE @ 1453.09 m KB																
	19:45		STARTED TO DISPLACE WATER FROM HOLE WITH AIR																
	20:00		BLEED OFF FLOW LINE TO REPAIR LEAK																
	20:20		STARTED TO DISPLACE WATER FROM HOLE WITH AIR																



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Date dd/mm/yy	Time hh:mm	Elapsed Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp. °C	Static Press. kPa	Diff. Press. kPa	Meter Temp. °C	Orifice Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr M³	Cum HC M³	Inc. H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
23/12/98	22:30		FLUID RECOVERED = 14.5 m³ + 12 m³ FOR A TOTAL OF 24.5 m³ RECOVERED OF WATER																	
	22:31		CONTINUE TO BLOW DOWN HOLE TO REMOVE ANY LAST BITS OF MOISTURE																	
24/12/98	00:30		STARTED TO DISPLACE AIR WITH N₂																	
	01:00		HOLD SAFETY MEETING																	
	01:40		PRESSURE UP TO MANIFOLD																	
	01:45		OPENED UP 3" OR 76.2 mm																	
	01:50		STARTED TO CIRC. HOLE WITH OIL & N₂ / 20 m³ OIL ADDED TO SYSTEM AFTER HOLE FILL																	
	04:00	0.00	STARTED TO DRILL OUT SHOE																	
	04:05	0.08	PUMP RATE @ 800 LITERS/MIN / N₂ RATE @ 35 m³/MIN																	
	07:24	0.40	SAMPLE TAKEN @ 1480 m KB																	
	07:40	0.67	SAMPLE TAKEN @ 1485 m KB																	
	07:53	0.89	SAMPLE TAKEN @ 1490 m KB																	
	07:55	0.92	MADE CONNECTION																	
	08:00	1.00	HELD SAFETY MEETING																	
	08:45	1.75	REDUCE FLUID RATE TO 700 LITERS/MIN																	
	10:00	3.00	TOTAL FLUID ON SURFACE = 37.1 m³																	
	10:30	3.50	SLOW DRILLING																	
	11:00	4.00	TOTAL LIQUID ON SURFACE = 37.2 m³ / TANK GAIN = 0.10 m³																	
	11:00	4.00	76.20	4500	100	0	180	8.00	4	76.20	67.95	11.33								
	11:30	4.50	76.20	4250	100	0	118	7.00	4	76.20	58.04	11.62								

ZONE: TIGHT HOLE

SUPERVISOR: JOHN JERDAN

[illegible]

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ENTEST_{CORP.}

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[illegible]

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CUSTOMER: PARAMONT RESOURCES LTD.

J.L NAME / No. F-38-80-10-023

TYPE TEST: U.B.D.

COMPANY REP: DENNIS McCULLOUGH

FIELD OR AREA: FT. LEARD N.W.T.

ZONE: TIGHT HOLE

METER RUN: 102.26 mm

GAS DENSITY: 0.65 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy	Time hh:mm	Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Gasing Press. kPa	Flow Temp °C	Static Press. kPa	Diff. Press. kPa	Meter Temp °C	Orifice Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr M³	Cum HC M³	Inc. H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
25/12/98	21:00		TOTAL FLUID ON SURFACE = 41.54 m³ / FLUID GAIN OF 7.72 m³																	
26/12/98	00:55		ON THE BANK WITH DRILL PIPE AND BIT																	
	02:20		INSTALLED NEW BIT / STARTED IN HOLE WITH DRILL PIPE																	
	05:50		ON BOTTOM WITH BIT / PICK UP KELLY																	
	06:00	29.62	STARTED TO FILL HOLE																	
	06:22	29.99	DRILLING A HEAD / FLUID RATE @ 700 LITERS/MIN																	
	06:22	29.99	N2 RATE @ 35 m³/MIN																	
	06:30	30.12	76.20	5150	125	6	140	7.00	4	76.20	58.86	68.88								
	06:45	30.37	METER IN SERVICE WITH 76.2 mm ORIFICE PLATE																	
	07:00	30.62	76.20	5020	125	8	140	7.00	4	76.20	58.86	70.18								
	07:00	30.62	TOTAL FLUID ON SURFACE = 34.88 m³ / FLUID LOSS = 6.66 m³																	
	07:15	30.87	PROBLEMS WITH FLUID PUMP REDUCE RATE @ 250 LITERS/MIN / N2 RATE @ 35 m³/MIN																	
	07:30	31.12	76.20	3000	20	7	20	2.00	2	76.20	22.59	70.65								
	08:00	31.62	76.20	4800	0	-4	10	1.00	-6	76.20	15.62	70.97								
	08:00	31.62	TOTAL FLUID ON SURFACE = 35.68 m³ / FLUID LOSS = 5.86 m³																	
	08:25	32.04	SAMPLE TAKEN @ 1525 m KB																	
	08:30	32.12	76.20	5000	150	9	200	8.00	6	76.20	70.13	71.51								
	09:00	32.62	76.20	4500	150	5	130	7.00	6	76.20	57.39	72.77								
	09:00	32.62	TOTAL FLUID ON SURFACE = 46.05 m³ / TANK GAIN 4.51 m³																	
	09:30	33.12	76.20	5000	100	4	50	6.00	4	76.20	42.98	73.50								



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Date dd/mm/yy		Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp. °C	Static Press. kPa	Diff. Press. kPa	Meter Temp. °C	Orifice Size mm	Gas Rate 10 ³ M ³ /day	Cum. Gas 10 ³ M ³	Calc. Total Fluid Vol M ³	Inc. HC/hr M ³	Cum HC M ³	Inc H ₂ O/hr M ³	Cum H ₂ O M ³	BS&W %	API	SAL ppm
26/12/98	10:00	33.62	76.20	4180	50	4	120	6.00	4	76.20	52.24	74.57								
	10:00	33.62	TOTAL FLUID ON SURFACE = 36.80 m3 / FLUID LOSS = 4.74 m3																	
	10:30	34.12	76.20	4150	50	8	140	7.00	5	76.20	58.75	75.88								
	11:00	34.62	76.20	4620	100	8	140	7.00	5	76.20	58.75	77.18								
	11:00	34.62	TOTAL FLUID ON SURFACE = 36.94 m3 / FLUID LOSS = 6.6 m3																	
	11:30	35.12	76.20	4610	100	8	140	7.00	6	76.20	58.65	78.47								
	11:31	35.14	SAMPLE @ 1530 m KB																	
	12:00	35.62	76.20	4540	100	8	140	7.00	7	76.20	58.54	79.76								
	12:00	35.62	TOTAL FLUID ON SURFACE = 37.80 m3 / FLUID LOSS = 3.74 m3																	
	12:30	36.12	76.20	4220	100	8	160	8.00	7	76.20	65.07	81.27								
	13:00	36.62	76.20	4280	140	9	140	7.00	7	76.20	58.54	82.54								
	13:00	36.62	TOTAL FLUID ON SURFACE = 36.41 m3 / FLUID LOSS = 5.13 m3																	
	13:30	37.12	76.20	4500	160	9	160	8.00	7	76.20	65.07	84.04								
	14:00	37.62	76.20	4440	170	9	170	8.00	7	76.20	66.34	85.57								
	14:00	37.62	TOTAL FLUID ON SURFACE = 38.28 m3 / FLUID LOSS = 3.26 m3																	
	14:00	37.62	FLUID RATE = 250 LITERS/MIN / N2 RATE = 35 m3/MIN																	
	14:30	38.12	76.20	4500	150	10	200	9.00	8	76.20	74.00	87.35								
	14:35	38.20	SLIGHT INCREASE IN GAS / N2 RATE @ 35 m3/MIN																	
	14:47	38.22	SAMPLE @ 1535 m KB																	
	15:00	38.62	76.20	4330	200	10	200	9.00	8	76.20	74.00	89.12								

ENTESTCORP.

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ZONE: TIGHT HOLE

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GAS DENSITY: 0.85 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy		Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp °C	Static Press. kPa	Diff. Press. kPa	Meter Temp °C	Orifice Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr M³	Cum HC M³	Inc H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
26/12/98	15:00	38.62	TOTAL FLUID ON SURFACE = 39.31 m³ / FLUID LOSS = 2.23 m³																	
	15:05	38.70	GAS RATE ON THE INCREASE																	
	15:20	38.95	BURNABLE GAS @ SURFACE																	
	15:25	39.03	FLUID RATE @ 250 LITERS/MIN / N₂ RATE @ 35 m³/MIN																	
	15:30	39.12	76.20	4550	400	10	330	13.00	8	76.20	106.44	91.94								
	16:00	39.62	76.20	4130	800	8	650	23.00	6	76.20	188.06	97.38								
	16:00	39.62	TOTAL FLUID ON SURFACE = 38.3 m³ / FLUID LOSS = 3.24 m³																	
	16:30	40.12	76.20	4130	750	8	580	21.00	6	76.20	170.97	102.21								
	16:46	40.39	SAMPLE TAKEN @ 1540 m KB																	
	17:00	41.62	76.20	3940	700	8	530	21.00	6	76.20	164.31	109.40								
	17:00	41.62	TOTAL FLUID ON SURFACE = 38.8 m³ / FLUID LOSS = 2.74 m³																	
	17:30	42.12	76.20	3940	650	8	510	20.00	6	76.20	157.80	113.80								
	18:00	42.62	76.20	3910	600	8	590	19.00	6											
	18:00	43.12	TOTAL FLUID ON SURFACE = 40.07 m³ / FLUID LOSS = 1.47 m³																	
	18:30	43.62	76.20	3900	500	8	480	19.00	6	76.20	149.94	120.66								
	18:30	43.62	MADE CONNECTION																	
	18:45	43.87	DRILLING A HEAD / FLUID RATE @ 250 LITERS/MIN																	
	19:00	44.12	76.20	3800	550	8	450	17.00	6	76.20	138.20	124.40								
	19:00	44.12	TOTAL FLUID ON SURFACE = 38.56 m³ / FLUID LOSS = 2.98 m³																	
	19:30	44.62	76.20	3900	550	8	430	17.75	7	76.20	138.18	128.11								

Table 1

F-36 Well Test and Completion History

Date	Zone	Unit	Length of Test Days	Flow Rate e3m3/d	Production Flow	Stimulation	Analysis Conducted
March 99	Upper	2	1	404	Up casing	None	Pressure Transient and Deliverability
March 99	Middle	3,4,6	1.25	560	Up casing	None	Pressure Transient and Deliverability
March 99	Lower	6,7,8	1	271	Up casing	None	Pressure Transient and Deliverability
August 99	Upper & Middle	2,3,4,6	11	500	Up tubing	None	Spinner, Pressure Transient and Deliverability
January 00	Upper	2A	4.5	225	Up tubing	CO2 Frac	Pressure Transient and Deliverability Pre-frac rate 12e3m3/d

Cumulative Gas Production to Date: 7887 e3m3

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26/12/98	20:00	45.12	76.20	3900	550	8	430	17.50	6	76.20	137.49	131.77								
	20:00	45.12	TOTAL FLUID ON SURFACE = 40.45 m3 / FLUID LOSS = 1.09 m3																	
	20:30	45.62	76.20	3830	550	5	420	17.50	6	76.20	136.14	135.36								
	20:30	45.62	STOP PUMPING / SHUT WELL IN TO REPAIR WASH OUT IN FLOW LINE																	
	21:45	45.87	FLOW LINE REPAIRED / OPENED WELL 3" OR 76.2 mm																	
	21:45	45.62	76.20	0	12200															
	22:30	46.37	76.20	0	250	10	360	15.00	2	76.20	119.46	139.14								
	22:45	46.62	CHANGED CHOKE TO 64/64 OR 25.4 mm																	
	22:45	46.62	25.40	0	650	2	200	10.00	-2	76.20	79.33	140.12								
	23:00	46.87	25.40	0	800	-3	240	11.00	-1	76.20	88.43	141.38								
	23:00	46.87	TOTAL FLUID ON SURFACE = 40.59 m3 / FLUID LOSS = 0.95 m3																	
	23:10	47.04	CHANGED CHOKE TO 48/64 OR 19.05 mm																	
	23:10	47.04	19.05	0	1150	-2	170	8.00	-6	76.20	67.95	141.76								
	23:15	47.12	19.05	0	1300	-3	180	9.00	-3	76.20	72.89	142.02								
	23:20	47.20	19.05	0	1310	-2	210	10.00	-3	76.20	80.83	142.51								
	23:30	47.37	19.05	0	1400	-4	220	10.00	-4	76.20	82.31	142.85								
	23:45	47.62	19.05	0	1400	-4	220	10.00	-4	76.20	82.31	143.36								
	23:45	47.62	CHANGED CHOKE TO 32/64 OR 12.7 mm																	
	23:50	47.70	12.70	0	2200	-4	100	5.00	-6	76.20	46.40	143.45								
	23:55	47.78	12.70	0	2450	-4	125	7.00	-6	76.20	58.02	143.57								



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27/12/98	00:00	47.87	12.70	0	2600	-6	140	7.50	-7	76.20	62.13	143.65								
	00:05	47.95	12.70	0	2700	-6	160	8.00	-9	76.20	67.04	143.75								
	00:10	48.04	12.70	0	2800	-8	165	8.00	-10	76.20	67.83	143.90								
	00:15	48.12	12.70	0	2810	-8	175	8.00	-10	76.20	69.12	144.07								
	00:20	48.20	12.70	0	2850	-8	175	8.00	-10	76.20	69.12	144.23								
	00:25	48.28	12.70	0	2900	-8	175	8.00	-10	76.20	69.12	144.40								
	00:30	48.37	12.70	0	2900	-8	175	8.00	-10	76.20	69.12	144.60								
	00:35	48.44	12.70	0	2900	-8	175	8.00	-10	76.20	69.12	144.74								
	00:35	48.44	CHANGED CHOKE TO 3" OR 76.2 mm																	
	00:40	48.53	76.20	0	1000	-8	870	29.00	-9	76.20	248.24	149.58								
	00:45	48.62	76.20	0	400	-4	380	16.00	-8	76.20	128.44	151.26								
	00:50	48.70	76.20	0	250	-3	260	12.00	-5	76.20	95.72	152.04								
	01:00	48.87	76.20	0	225	-2	220	10.00	-2	76.20	82.00	152.75								
	01:00	48.87	TOTAL FLUID ON SURFACE = 40.84 m ³ / FLUID LOSS = 0.70 m ³																	
	01:10	49.04	START TO PUMP FLUID @ 250 LITERS/MIN / N ₂ @ 35 m ³ /MIN																	
	01:20	49.20	FLUID RETURNS																	
	01:30	49.37	76.20	3330	400	-2	300	13.00	0	76.20	104.07	155.04								
	02:00	49.87	76.20	3510	550	-1	370	15.00	4	76.20	120.34	157.74								
	02:00	49.87	TOTAL FLUID ON SURFACE = 41.83 m ³ / FLUID GAIN = 0.29 m ³																	
	02:30	50.37	76.20	3510	550	0	360	15.00	5	76.20	118.79	160.39								

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27/12/98	03:00	50.87	76.20	3520	575	4	360	15.00	6	76.20	118.57	163.03								
	03:00	50.87	TOTAL FLUID ON SURFACE = 41.35 m³ / FLUID LOSS = 0.19 m³																	
	03:30	51.37	76.20	3530	550	4	360	15.00	6	76.20	118.57	165.67								
	04:00	51.87	76.20	3520	550	4	360	15.00	6	76.20	118.57	168.31								
	04:00	51.87	TOTAL FLUID ON SURFACE = 41.49 m³ / FLUID LOSS = 0.05 m³																	
	04:30	52.37	76.20	3520	550	4	365	15.00	6	76.20	119.23	170.96								
	04:45	52.62	SAMPLE TAKEN @ 1545 METERS																	
	05:00	52.87	76.20	3530	550	4	360	15.00	5	76.20	118.79	173.59								
	05:00	52.87	TOTAL FLUID ON SURFACE = 41.53 m³ / FLUID LOSS = 0.01 m³																	
	05:30	53.37	76.20	3540	550	4	350	14.00	6	76.20	113.37	176.09								
	06:00	53.87	76.20	3500	550	6	355	14.00	6	76.20	114.02	178.59								
	06:00	53.87	TOTAL FLUID ON SURFACE = 41.83 m³ / FLUID GAIN = 0.29 m³																	
	06:30	54.37	76.20	3550	525	4	355	14.50	5	76.20	116.19	181.15								
	07:00	54.87	76.20	3550	525	4	355	14.50	5	76.20	116.19	183.71								
	07:00	54.87	TOTAL FLUID ON SURFACE = 40.38 / FLUID LOSS = 1.16 m³																	
	07:30	55.37	76.20	3570	550	8	360	15.00	5	76.20	118.79	186.33								
	08:00	55.87	76.20	3590	550	8	360	14.00	6	76.20	114.66	188.84								
	08:00	55.87	TOTAL FLUID ON SURFACE 39.63 m³ / FLUID LOSS = 1.91 m³																	
	08:30	56.37	76.20	3590	550	8	360	15.00	6	76.20	118.57	191.45								
	09:00	56.87	76.20	3570	550	8	360	15.00	6	76.20	118.57	194.05								



CUSTOMER: PARAMONT RESOURCES LTD.

J. NAME / No. F-36-60-10-023

TYPE TEST: U.B.D.

COMPANY REP: DENNIS McCULLOUGH

FIELD OR AREA: FT. LEARD N.W.T.

ZONE: TIGHT HOLE

METER RUN: 102.26 mm

GAS DENSITY: 0.65 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy		Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp °C	Static Press. kPa	Diff. Press. kPa	Meter Temp °C	Orifice Size mm	Gas Rate 10³M³/day	Cum Gas 10³M³	Calc. Total Fluid Vol M³	Inc. HC/hr M³	Cum HC M³	Inc H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
27/12/98	09:00	56.87	TOTAL FLUID ON SURFACE = 40.96 m3 / FLUID LOSS = 0.58 m3																	
	09:30	57.37	76.20	3550	550	8	350	15.00	6	76.20	117.23	196.62								
	10:00	57.87	76.20	3590	550	8	360	14.00	6	76.20	114.66	199.12								
	10:00	57.87	TOTAL FLUID ON SURFACE = 38.32 m3 / FLUID LOSS = 3.22 m3																	
	10:10	58.04	FLUID RATE = 250 LITERS/MIN / N2 RATE = 35 m3/MIN																	
	10:30	58.37	76.20	3560	550	8	340	14.00	6	76.20	112.06	201.56								
	11:00	58.87	76.20	3590	550	7	350	15.00	5	76.20	117.45	204.13								
	11:00	58.87	TOTAL SURFACE FLUID = 34.22 m3 / FLUID LOSS = 7.33 m3																	
	11:14	59.10	SAMPLE TAKEN @ 1550 m KB																	
	11:30	59.37	76.20	3590	500	7	340	14.00	5	76.20	112.27	206.56								
	12:00	59.87	76.20	3590	500	7	330	14.00	5	76.20	110.95	208.97								
	12:00	59.87	TOTAL FLUID ON SURFACE = 35.71 FLUID LOSS = 5.84 m3																	
	12:30	69.37	76.20	3510	500	7	330	14.00	5	76.20	110.95	242.88								
	12:55	69.79	MADE CONNECTION																	
	13:00	69.87	76.20	3490	400	7	320	12.00	5	76.20	101.70	245.12								
	13:00	69.87	TOTAL FLUID ON SURFACE = 35.35 m3 / FLUID LOSS = 6.19 m3																	
	13:10	70.04	DRILLING AHEAD																	
	13:30	70.37	76.20	3470	500	7	330	14.00	5	76.20	110.95	247.62								
	14:00	70.87	76.20	3520	550	7	330	14.00	6	76.20	110.74	250.10								
	14:00	70.87	TOTAL FLUID ON SURFACE = 35.32 m3 / FLUID LOSS = 6.22 m3																	

ENTESTCORP.

CUSTOMER: PARAMONT RESOURCES LTD.

JL NAME / No. F-38-80-10-023

TYPE TEST: U.B.D.

COMPANY REP: DENNIS McCULLOUGH

FIELD OR AREA: FT. LEARD N.W.T.

ZONE: TIGHT HOLE

METER RUN: 102.26 mm

GAS DENSITY: 0.65 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy		Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp °C	Static Press: kPa	Diff. Press kPa	Meter Temp °C	Office Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr M³	Cum HC M³	Inc H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
27/12/98	14:30	71.37	76.20	3550	550	8	330	14.00	6	76.20	110.74	252.58								
	15:00	71.87	76.20	3650	550	8	330	14.00	5	76.20	110.95	255.07								
	15:00	71.87	TOTAL FLUID ON SURFACE = 35.2 m3 / FLUID LOSS = 6.34 m3																	
	15:30	72.37	76.20	3590	600	8	330	14.00	5	76.20	110.95	257.55								
	15:44	72.60	SAMPLE TAKEN @ 1555 m KB																	
	16:00	72.87	76.20	3510	500	8	330	14.00	5	76.20	110.95	260.03								
	16:00	72.87	TOTAL FLUID ON SURFACE = 34.11m3 / FLUID LOSS = 7.43 m3																	
	16:30	73.37	76.20	3590	500	7	340	14.00	5	76.20	112.27	262.54								
	17:00	73.87	76.20	3570	500	7	330	14.00	5	76.20	110.95	265.01								
	17:00	73.87	TOTAL FLUID ON SURFACE = 34.17 m3 / FLUID LOSS = 7.37 m3																	
	17:30	74.37	76.20	3560	500	7	330	14.00	5	76.20	110.95	267.48								
	18:00	74.87	76.20	3580	500	7	340	14.00	5	76.20	112.27	269.98								
	18:00	74.87	TOTAL FLUID ON SURFACE = 35.78 m3 / FLUID LOSS = 5.76 m3																	
	18:30	75.37	76.20	3560	500	7	320	14.00	4	76.20	109.81	272.41								
	19:00	75.87	76.20	3590	500	7	320	14.00	4	76.20	109.81	274.84								
	19:00	75.87	TOTAL FLUID ON SURFACE = 35.95 m3 / FLUID LOSS = 5.59 m3																	
	19:13	76.09	SAMPLE TAKEN @ 1560 m																	
	19:30	76.37	76.20	3590	500	7	320	13.00	4	76.20	105.93	277.17								
	19:45	76.62	MADE CONNECTION																	
	20:00	76.87	76.20	3340	450	7	310	13.00	4	76.20	104.62	279.45								

ENTEST_{CORP.}

CUSTOMER: PARAMONT RESOURCES LTD.

JL NAME / No. F-36-60-10-023

TYPE TEST: U.B.D.

COMPANY REP: DENNIS McCULLOUGH

FIELD OR AREA: FT. LEARD N.W.T.

ZONE: TIGHT HOLE

METER RUN: 102.26 mm

GAS DENSITY: 0.65 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy		Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp °C	Static Press. kPa	Diff. Press. kPa	Meter Temp °C	Orifice Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr M³	Cum HC M³	Inc H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
27/12/98	20:00	76.87	TOTAL FLUID ON SURFACE=33.37 m3 / FLUID LOSS = 6.09 m3																	
	20:30	77.37	76.20	3540	475	7	300	13.00	4	76.20	103.30	281.70								
	21:00	77.87	76.20	3350	475	7	290	13.00	4	76.20	101.96	283.91								
	21:00	77.87	TOTAL FLUID ON SURFACE = 33.86 m3 / FLUID LOSS = 7.68																	
	21:16	78.14	76.20		5100	7	1250	40.00	6	76.20	335.40	291.51								
	21:20	78.22	SHUT WELL IN AND WAITED ON INSTRUCTIONS																	
	22:35	78.22	SAMPLE TAKEN @ 1565 m																	
	23:15	78.22	PRESSURE UP TO CHOKE																	
	23:20	78.30		0	13600															
	23:20	78.30	OPENED WELL UP ON A 19.45 mm CHOKE																	
	23:30	78.47	19.45	0	9400															
	23:33	78.52	19.45	0	8200															
	23:33	78.52	INCREASED CHOKE TO 20.24 mm																	
	23:35	78.55	20.24	0	8100															
	23:40	78.63	20.24	0	8300															
	23:40	78.63	INCREASED CHOKE TO 21.43 mm																	
	23:45	78.71		0	7500	-18	1350	46.00	-22	76.20	396.81	301.83								
	23:50	78.79	21.43	0	7000	-16	1300	44.00	-23	76.20	381.88	309.81								
	23:55	78.87	21.43	0	7000	-16	1300	44.00	-21	76.20	380.06	317.64								
	23:55	78.87	REDUCED CHOKE TO 15.87 mm																	

ZONE: TIGHT HOLE

SUPERVISOR: JOHN JERDAN

[illegible]

ZONE: TIGHT HOLE

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[illegible]

ZONE: TIGHT HOLE

SUPERVISOR: JOHN JERDAN

[illegible]

ENTESTCORP.

CUSTOMER: PARAMONT RESOURCES LTD.

J.L NAME / No. F-36-60-10-023

TYPE TEST: U.B.D.

COMPANY REP: DENNIS McCULLOUGH

FIELD OR AREA: FT. LEARD N.W.T.

ZONE: TIGHT HOLE

METER RUN: 102.26 mm

GAS DENSITY: 0.65 Air = 1

UNIT NUMBER: PT-10

SUPERVISOR: JOHN JERDAN

Date dd/mm/yy		Elps flow Time Decimal	Choke size mm	Tubing Press. kPa	Casing Press. kPa	Flow Temp. °C	Static Press. kPa	Diff. Press. kPa	Meter Temp. °C	Orifice Size mm	Gas Rate 10³M³/day	Cum. Gas 10³M³	Calc. Total Fluid Vol. M³	Inc. HC/hr. M³	Cum HC M³	Inc H₂O/hr M³	Cum H₂O M³	BS&W %	API	SAL ppm
30/12/98	14:00	119.37	PICKED UP KELLY / STARTED MILLING PACKER RUBBER LEFT IN HOLE																	
	14:25	119.79	MAKE CONNECTION																	
	17:00	122.37	MAKE CONNECTION																	
	18:10	123.54	PULL OUT OF HOLE / PUMP PILL																	
	18:30	123.87	STARTED TO TRIP OUT OF HOLE / SAMPLE TAKEN 1569 m																	
	23:45	128.12	FINISHED TRIPPING OUT OF HOLE																	
	00:10	128.54	STARTED TO RIG OUT TEST EQUIPMENT																	
	02:00	130.37	CLEAN P-TANK WITH VAC TRUCK																	
	08:00	136.37	JOB COMPLETED / RELEASED / TRAVELED BACK TO G.P.																	