

N.E.B. COPY

MICROFILMED
SUR MICROFILM:

Company: PARAMOUNT RESOURCES LTD.
Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65
Date of test: 1999 01 12 - 01 15
Test by TRI-ALTA BEWS SERVICES
Interp. by Cal-Scan Services Ltd.

TRI-ALTA BEWS SERVICES

Subsurface Pressure Measurements

Company: PARAMOUNT RESOURCES LTD.
Address: CALGARY, ALBERTA
Field & Pool: BERKLEY/SULPHUR POINT
Type of test: STATIC GRADIENT
Prod. Int CF: 2607.68 to 2623.72
Elev. (CF) (KB)
Pool datum:

Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65
Status: GAS
Date of test: 1999 01 12
Prod. through: 73.03MM TUBING
Mid-point prod.int. CF: 2615.7
Datum depth of well CF:

Tubing pres: 11420 KPAG
Casing pres: 0 KPAG
Temperature at run depth: 132.0 C

Shut in time:
On bottom/off bottom: 10:30 - 10:36
Surface temperature:

Note: All units in metric, depth in meters cf; pressure in KPAG

TOP RECORDER

Element serial#: 22437
Pressure Range: 0 to 37577
Cal. equation: $738.6 * DEFL - 3.2$
Latest calibration: 10-22-98
Clock range: 3 HOUR

Run depth (CF): 2613.9
Grad. at run depth: 2.706
Pres. at run depth: 15834.3
Pres. at mid point perf.: 15839.1
Pres. at datum depth:

Depth m	Defl mm	Pressure KPAG	Gradient KPAG/m
-1.8	15.485	11432.0	
-1.8	15.480	11428.3	
498.2	16.420	12120.0	1.383
998.2	17.295	12763.8	1.288
1498.2	18.090	13348.8	1.170
1998.2	18.855	13912.1	1.127
2498.2	20.525	15144.4	2.465
2553.9	21.020	15509.6	6.558
2583.9	21.350	15753.1	8.117
2613.9	21.460	15834.3	2.706

Fluid level at 2375 mcf
Final surface flex: 11612.3 KPAG

Remarks:

BOTTOM RECORDER

Element serial#: 22436
Pressure range: 0 to 37750
Cal. equation: $741.5 * DEFL + 15.5$
Latest calibration: 10-22-98
Clock range: 3 HOUR

Run depth (CF): 2615.7
Grad. at run depth: 2.713
Pres. at run depth: 15864.4
Pres. at mid point perf.: 15864.4
Pres. at datum depth:

Depth m	Defl mm	Pressure KPAG	Gradient KPAG/m
0.0	15.400	11446.4	
0.0	15.400	11446.4	
500.0	16.320	12127.3	1.362
1000.0	17.180	12763.8	1.273
1500.0	17.970	13348.5	1.169
2000.0	18.735	13914.7	1.132
2500.0	20.430	15168.9	2.508
2555.7	20.920	15531.4	6.509
2585.7	21.260	15783.0	8.386
2615.7	21.370	15864.4	2.713

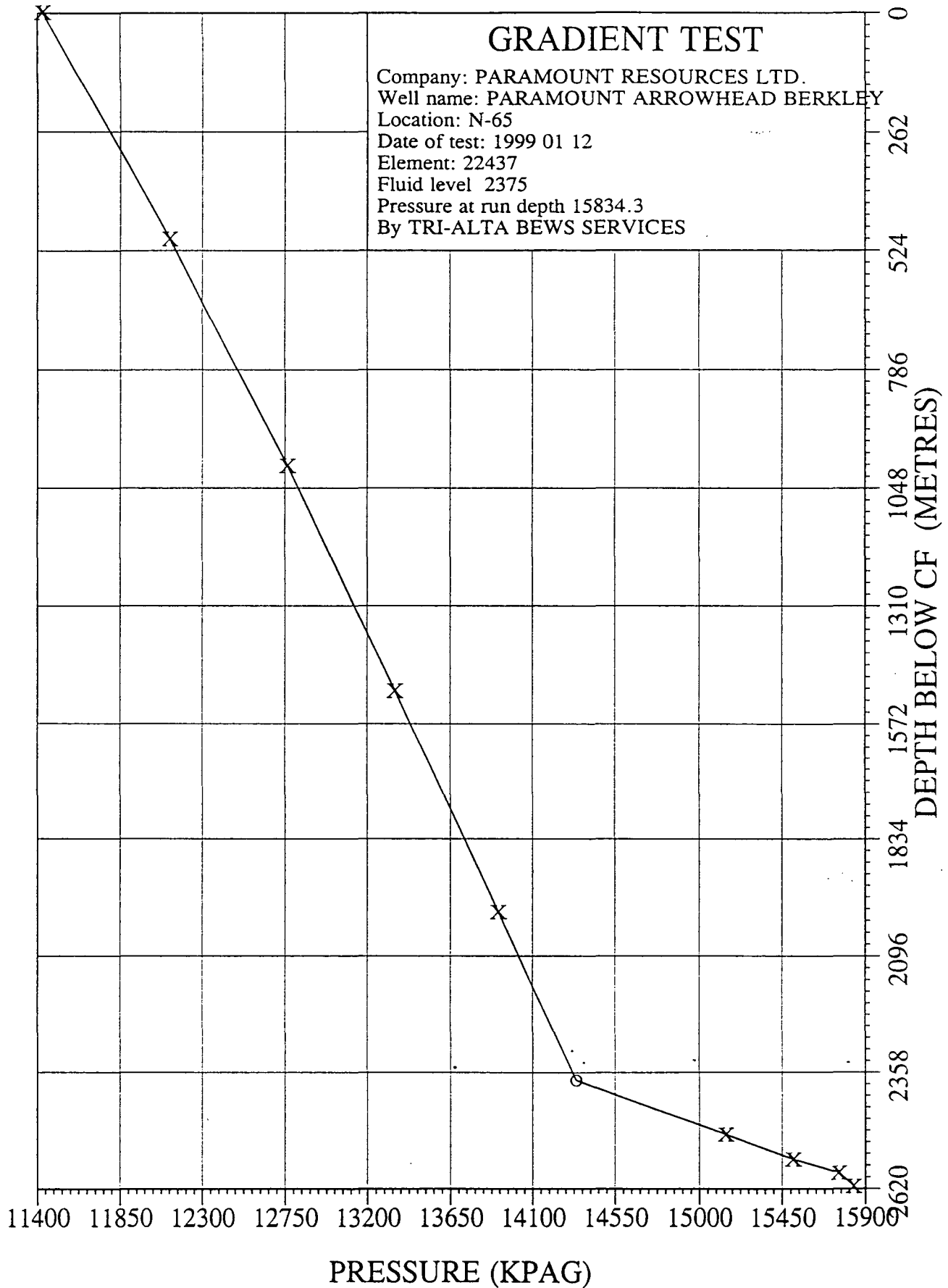
Fluid level at 2372 mcf
Final surface flex: 11616.7 KPAG

Test by: MILT

Interpretation by CAL-SCAN SERVICES LTD.

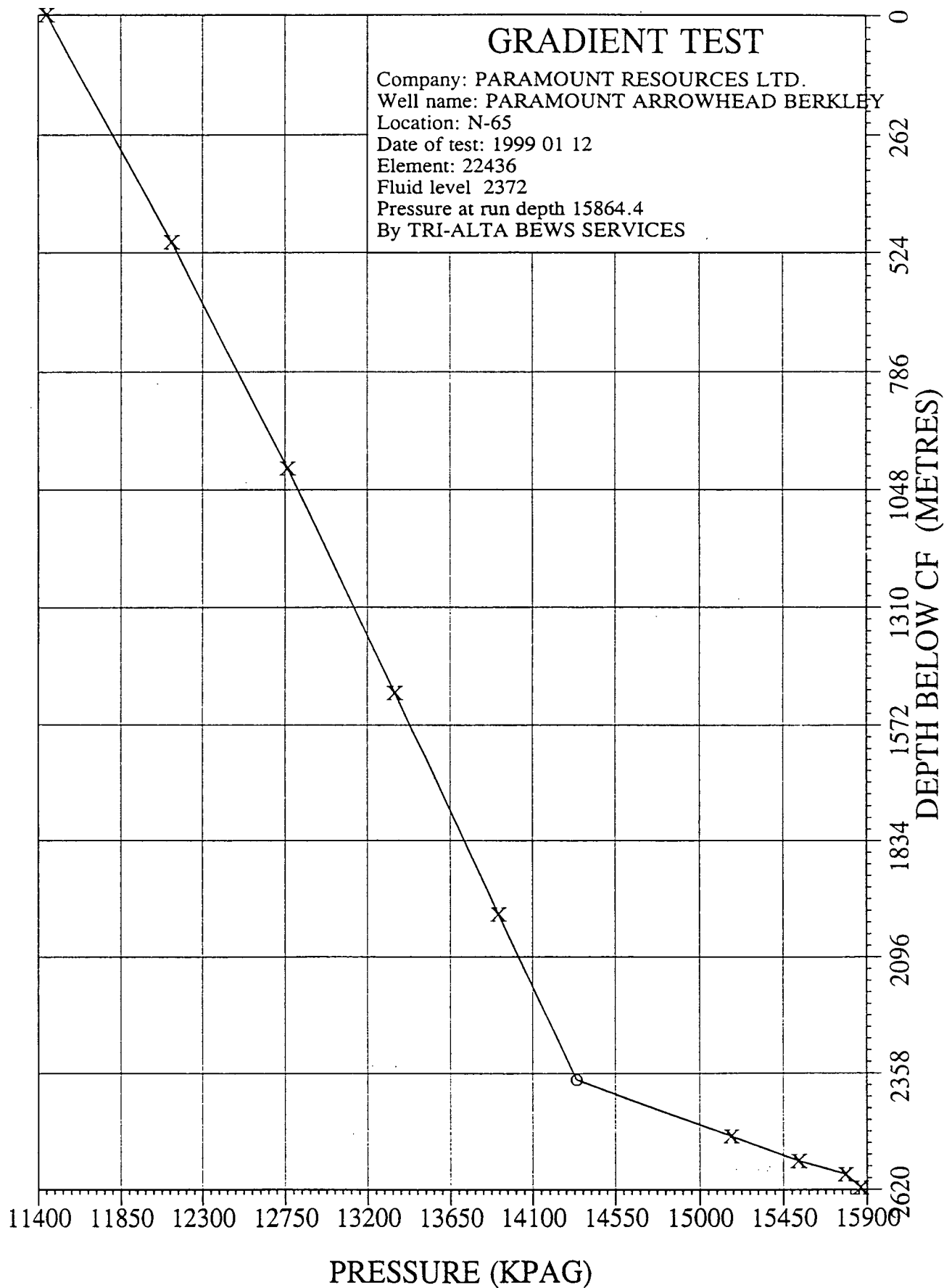
GRADIENT TEST

Company: PARAMOUNT RESOURCES LTD.
Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65
Date of test: 1999 01 12
Element: 22437
Fluid level 2375
Pressure at run depth 15834.3
By TRI-ALTA BEWS SERVICES



GRADIENT TEST

Company: PARAMOUNT RESOURCES LTD.
Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65
Date of test: 1999 01 12
Element: 22436
Fluid level 2372
Pressure at run depth 15864.4
By TRI-ALTA BEWS SERVICES



TRI-ALTA BEWS SERVICES

SUMMARY

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 01 12 - 01 15

Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65

JAN 12-12:56
JAN 12-15:00
JAN 13-15:00
JAN 15-07:30

ON BOTTOM
OPEN WELL
SHUT IN
OFF BOTTOM

Remarks:

Tubing when pulled = 11800 kpag casing = 0 kpag.

Interpretation by CAL-SCAN SERVICES LTD.

TRI-ALTA BEWS SERVICES

Subsurface Pressure Measurements

Company: PARAMOUNT RESOURCES LTD.
Address: CALGARY, ALBERTA
Field & Pool: BERKLEY/SULPHUR POINT
Type of test: SINGLE POINT
Prod. Int CF: 2607.68 to 2623.72
Elev. (CF) (KB)
Pool datum:

Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65
Status: GAS
Date of test: 1999 01 12 - 01 15
Prod. through: 73.03MM TUBING
Mid-point prod.int. CF: 2615.7
Datum depth of well CF:

Tubing pres: 11480 KPAG
Casing pres: 0 KPAG
Temperature at run depth: 122.0 C

Shut in time: 1999 01 13 1500
On/off btm: 01-12-1256:00-01 15-0730:0
Surface temperature:

Note: All units in metric, depth in meters cf; pressure in KPAG

TOP RECORDER

Element serial#: 22437
Pressure Range: 0 to 37577
Cal. equation: $738.6 * DEFL - 3.2$
Latest calibration: 10-22-98
Clock range: 180 HOUR
Run depth (CF): 2594.2

BOTTOM RECORDER

Element serial#: 22436
Pressure range: 0 to 37750
Cal. equation: $741.5 * DEFL + 15.5$
Latest calibration: 10-22-98
Clock range: 180 HOUR
Run depth (CF): 2596

TOP RECORDER

BOTTOM RECORDER

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
JAN 12-12:56	0.00	21.580	15922.8		21.500	15960.6	
ON BOTTOM	0.25	21.605	15941.3		21.530	15982.3	
13:26	0.50	21.635	15963.4		21.560	16005.0	
13:41	0.75	21.650	15974.5		21.595	16030.9	
13:56	1.00	21.685	16000.3		21.610	16042.0	
14:11	1.25	21.690	16004.0		21.625	16053.1	
14:26	1.50	21.710	16018.8		21.640	16064.2	
14:41	1.75	21.730	16033.5		21.665	16082.7	
15:00	2.07	21.760	16055.6		21.675	16090.1	
JAN 12-15:00	0.00	21.760	16055.6		21.675	16090.1	
OPEN WELL	0.25	20.570	15177.6		20.300	15072.7	
15:30	0.50	20.000	14757.0		19.570	14532.5	
15:45	0.75	19.115	14103.9		19.095	14181.0	
16:00	1.00	18.635	13749.9		18.455	13707.4	
16:15	1.25	18.065	13330.4		17.930	13318.9	
16:30	1.50	17.620	13003.0		17.560	13045.1	
16:45	1.75	17.220	12708.7		17.220	12793.4	
17:00	2.00	16.835	12425.4		16.815	12493.7	
17:15	2.25	16.470	12156.8		16.570	12312.4	
17:30	2.50	16.225	11976.5		16.250	12075.5	
17:45	2.75	15.790	11656.4		16.025	11909.0	
18:00	3.00	15.590	11509.2		15.765	11716.6	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 01 12 - 01 15

Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65

TOP RECORDER
Element serial#: 22437
Run Depth (CF): 2594.2

BOTTOM RECORDER
Element serial#: 22436
Run depth (CF): 2596

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
18:15	3.25	15.370	11347.4		15.480	11505.6	
18:30	3.50	15.185	11211.2		15.240	11328.0	
18:45	3.75	14.960	11045.7		15.010	11157.8	
19:00	4.00	14.710	10861.7		14.805	11006.1	
19:15	4.25	14.545	10740.3		14.625	10872.9	
19:30	4.50	14.395	10629.9		14.445	10739.6	
19:45	4.75	14.245	10519.5		14.330	10654.5	
20:00	5.00	14.070	10390.8		14.140	10513.9	
20:15	5.25	13.970	10317.2		14.050	10447.3	
20:30	5.50	13.845	10225.2		13.885	10325.2	
20:45	5.75	13.735	10144.3		13.790	10254.9	
21:00	6.00	13.640	10074.4		13.675	10169.8	
21:15	6.25	13.550	10008.1		13.560	10084.6	
21:30	6.50	13.505	9975.0		13.510	10047.6	
21:45	6.75	13.400	9897.8		13.410	9973.6	
22:00	7.00	13.430	9919.8		13.410	9973.6	
22:15	7.25	13.430	9919.8		13.425	9984.7	
22:30	7.50	13.445	9930.9		13.435	9992.1	
22:45	7.75	13.450	9934.5		13.445	9999.5	
23:00	8.00	13.460	9941.9		13.455	10006.9	
23:30	8.50	13.470	9949.3		13.475	10021.7	
00:00	9.00	13.470	9949.3		13.475	10021.7	
00:30	9.50	13.485	9960.3		13.485	10029.1	
01:00	10.00	13.490	9964.0		13.495	10036.5	
01:30	10.50	13.490	9964.0		13.495	10036.5	
02:00	11.00	13.500	9971.3		13.495	10036.5	
02:30	11.50	13.510	9978.7		13.500	10040.2	
03:00	12.00	13.520	9986.1		13.500	10040.2	
03:30	12.50	13.520	9986.1		13.515	10051.3	
04:00	13.00	13.505	9975.0		13.515	10051.3	
04:30	13.50	13.510	9978.7		13.515	10051.3	
05:00	14.00	13.480	9956.6		13.490	10032.8	
05:30	14.50	13.480	9956.6		13.485	10029.1	
06:00	15.00	13.475	9952.9		13.465	10014.3	
06:30	15.50	13.460	9941.9		13.455	10006.9	
07:00	16.00	13.430	9919.8		13.455	10006.9	
07:30	16.50	13.405	9901.4		13.425	9984.7	
08:00	17.00	13.395	9894.1		13.380	9951.4	
08:30	17.50	13.365	9872.0		13.340	9921.8	
09:00	18.00	13.345	9857.3		13.290	9884.8	
09:30	18.50	13.310	9831.5		13.270	9870.0	
10:00	19.00	13.300	9824.2		13.250	9855.2	
10:30	19.50	13.280	9809.5		13.210	9825.6	
11:00	20.00	13.280	9809.5		13.210	9825.6	
11:30	20.50	13.250	9787.4		13.200	9818.2	
12:00	21.00	13.230	9772.7		13.190	9810.8	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 01 12 - 01 15

Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65

TOP RECORDER
Element serial#: 22437
Run Depth (CF): 2594.2

BOTTOM RECORDER
Element serial#: 22436
Run depth (CF): 2596

COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
	12:30	21.50	13.210	9757.9	13.190	9810.8	
	13:00	22.00	13.200	9750.6	13.165	9792.3	
	13:30	22.50	13.190	9743.2	13.140	9773.8	
	14:00	23.00	13.185	9739.5	13.130	9766.4	
	14:30	23.50	13.175	9732.2	13.120	9759.0	
	15:00	24.00	13.150	9713.8	13.100	9744.2	
JAN 13-15:00	0.00	13.150	9713.8		13.100	9744.2	
SHUT IN	0.25	13.940	10295.1		13.935	10362.2	
	15:30	0.50	14.240	10515.9	14.210	10565.7	
	15:45	0.75	14.520	10721.9	14.500	10780.3	
	16:00	1.00	14.775	10909.5	14.760	10972.8	
	16:15	1.25	14.950	11038.3	14.980	11135.6	
	16:30	1.50	15.185	11211.2	15.195	11294.7	
	16:45	1.75	15.390	11362.1	15.390	11439.0	
	17:00	2.00	15.580	11501.9	15.555	11561.1	
	17:15	2.25	15.800	11663.8	15.720	11683.3	
	17:30	2.50	15.945	11770.5	15.905	11820.2	
	17:45	2.75	16.090	11877.2	16.070	11942.3	
	18:00	3.00	16.245	11991.2	16.210	12045.9	
	18:15	3.25	16.390	12097.9	16.340	12142.1	
	18:30	3.50	16.520	12193.6	16.485	12249.4	
	18:45	3.75	16.625	12270.8	16.600	12334.6	
	19:00	4.00	16.745	12359.1	16.705	12412.3	
	19:15	4.25	16.865	12447.4	16.800	12482.6	
	19:30	4.50	16.970	12524.7	16.910	12564.0	
	19:45	4.75	17.065	12594.6	17.020	12645.4	
	20:00	5.00	17.155	12660.8	17.105	12708.3	
	20:15	5.25	17.235	12719.7	17.205	12782.3	
	20:30	5.50	17.320	12782.2	17.290	12845.2	
	20:45	5.75	17.410	12848.5	17.395	12922.9	
	21:00	6.00	17.485	12903.7	17.455	12967.3	
	21:15	6.25	17.555	12955.2	17.525	13019.2	
	21:30	6.50	17.610	12995.6	17.580	13059.9	
	21:45	6.75	17.685	13050.8	17.640	13104.3	
	22:00	7.00	17.730	13083.9	17.710	13156.1	
	22:15	7.25	17.800	13135.4	17.770	13200.5	
	22:30	7.50	17.860	13179.6	17.825	13241.2	
	22:45	7.75	17.915	13220.1	17.885	13285.6	
	23:00	8.00	17.960	13253.2	17.940	13326.3	
	23:30	8.50	18.055	13323.1	18.050	13407.7	
	00:00	9.00	18.160	13400.3	18.140	13474.3	
	00:30	9.50	18.240	13459.2	18.210	13526.1	
	01:00	10.00	18.310	13510.7	18.295	13589.0	
	01:30	10.50	18.390	13569.6	18.385	13655.6	
	02:00	11.00	18.485	13639.5	18.450	13703.7	
	02:30	11.50	18.565	13698.4	18.520	13755.6	

TRI-ALTA BEWS SERVICES

Company: PARAMOUNT RESOURCES LTD.
Date of test: 1999 01 12 - 01 15

Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65

TOP RECORDER

Element serial#: 22437
Run Depth (CF): 2594.2

BOTTOM RECORDER

Element serial#: 22436
Run depth (CF): 2596

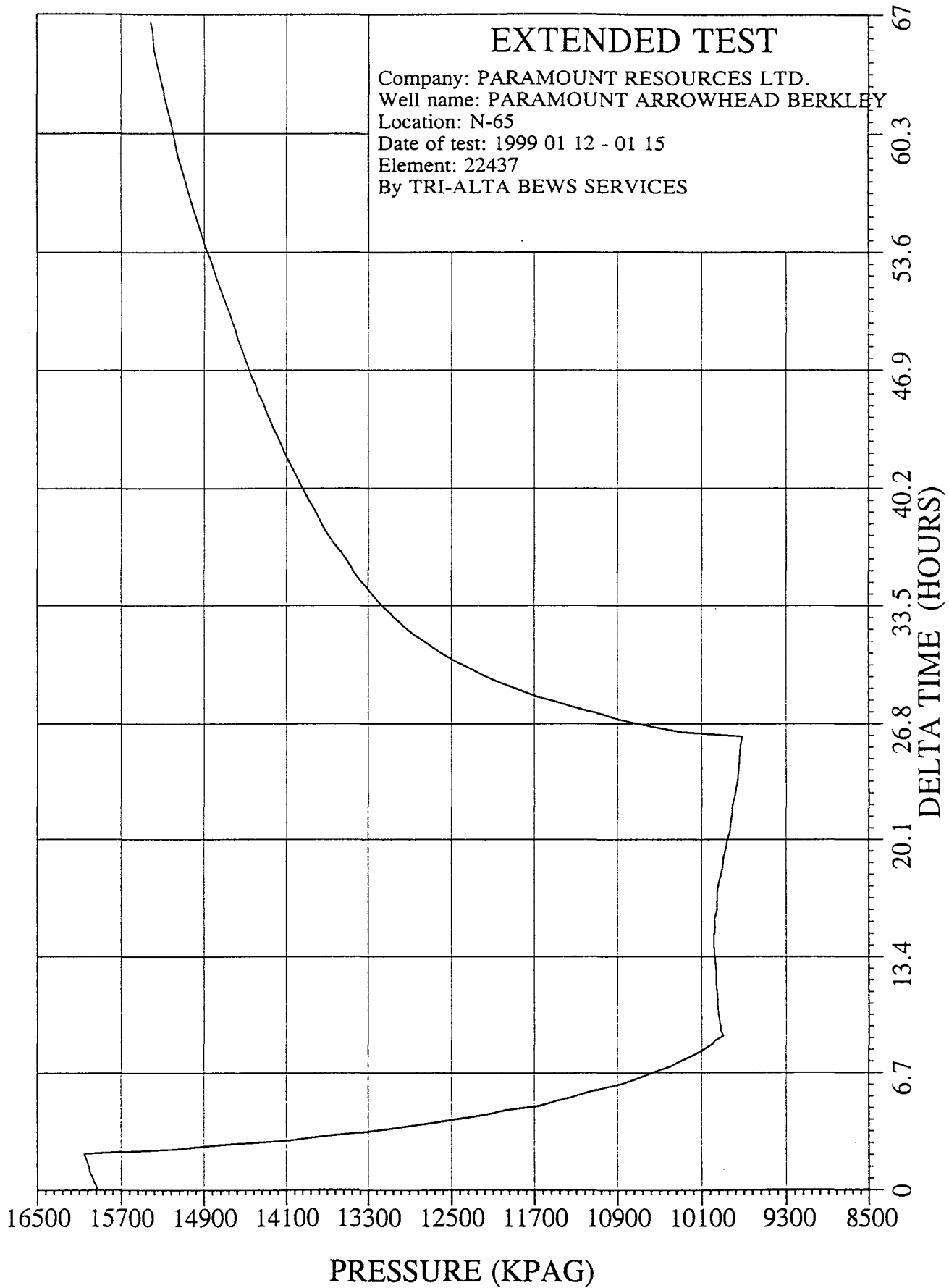
COMMENT REAL TIME	DELTA TIME HOURS	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT	DEFL mm	PRESSURE RUNDEPTH	PRESSURE MIDPNT
03:00	12.00	18.635	13749.9		18.585	13803.7	
03:30	12.50	18.690	13790.3		18.660	13859.2	
04:00	13.00	18.750	13834.6		18.720	13903.6	
04:30	13.50	18.820	13886.3		18.795	13959.0	
05:00	14.00	18.880	13930.5		18.840	13992.3	
05:30	14.50	18.940	13974.8		18.910	14044.1	
06:00	15.00	19.000	14019.1		18.970	14088.5	
06:30	15.50	19.060	14063.4		19.035	14136.6	
07:00	16.00	19.120	14107.6		19.060	14155.1	
07:30	16.50	19.170	14144.5		19.120	14199.5	
08:00	17.00	19.220	14181.4		19.180	14243.9	
08:30	17.50	19.280	14225.7		19.230	14280.9	
09:00	18.00	19.330	14262.6		19.275	14314.2	
09:30	18.50	19.380	14299.5		19.330	14354.9	
10:00	19.00	19.420	14329.0		19.370	14384.5	
10:30	19.50	19.485	14377.0		19.420	14421.5	
11:00	20.00	19.520	14402.8		19.465	14454.8	
11:30	20.50	19.575	14443.4		19.520	14495.5	
12:00	21.00	19.615	14472.9		19.575	14536.2	
12:30	21.50	19.660	14506.1		19.620	14569.5	
13:00	22.00	19.700	14535.6		19.650	14591.7	
13:30	22.50	19.745	14568.8		19.700	14628.7	
14:00	23.00	19.780	14594.6		19.740	14658.3	
14:30	23.50	19.825	14627.8		19.775	14684.2	
15:00	24.00	19.860	14653.7		19.835	14728.6	
16:00	25.00	19.950	14720.1		19.905	14780.4	
17:00	26.00	20.035	14782.8		19.980	14835.9	
18:00	27.00	20.105	14834.4		20.060	14895.1	
19:00	28.00	20.195	14900.9		20.140	14954.3	
20:00	29.00	20.265	14952.5		20.210	15006.1	
21:00	30.00	20.340	15007.8		20.280	15057.9	
22:00	31.00	20.410	15059.5		20.345	15106.0	
23:00	32.00	20.475	15107.5		20.400	15146.7	
00:00	33.00	20.545	15159.1		20.460	15191.1	
01:00	34.00	20.590	15192.3		20.520	15235.5	
02:00	35.00	20.640	15229.2		20.585	15283.5	
03:00	36.00	20.700	15273.5		20.640	15324.2	
04:00	37.00	20.755	15314.1		20.670	15346.4	
05:00	38.00	20.810	15354.7		20.730	15390.8	
06:00	39.00	20.855	15387.9		20.775	15424.1	
07:00	40.00	20.870	15398.9		20.820	15457.4	
JAN 15-07:30	40.50	20.895	15417.4		20.845	15475.9	
OFF BOTTOM	0.00	20.895	15417.4		20.845	15475.9	

Remarks:

Tubing when pulled = 11800 kpag casing = 0 kpag.

EXTENDED TEST

Company: PARAMOUNT RESOURCES LTD.
Well name: PARAMOUNT ARROWHEAD BERKLEY
Location: N-65
Date of test: 1999 01 12 - 01 15
Element: 22437
By TRI-ALTA BEWS SERVICES



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