

**DELIVERABILITY & BUILDUP TEST REPORT
ON WELL**

PARAMOUNT et al CAMERON c-50 60° 10'N, 117° 30'W

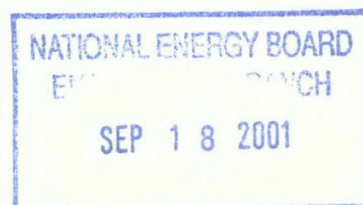
SULPHUR POINT: 1360.0-1362.0 mKB

MARCH 14-27, 2001

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Associates Inc.

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ON WELL
PARAMOUNT et al CAMERON c-50 60° 10'N, 117° 30'W
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**Prepared for:
PARAMOUNT RESOURCES LIMITED**

**Prepared by:
FEKETE ASSOCIATES INC.**

Fekete

Associates Inc.

Reservoir Engineering & Geology - Oil & Gas Property Evaluation - Well Test Interpretation - Software Development

July 16, 2001

Paramount Resources Limited

4700 Bankers Hall West
888-3rd Street SW
Calgary, Alberta
T2P 5C5

ATTENTION: Lloyd Doyle

RE: DELIVERABILITY AND BUILDUP TEST REPORT

PARAMOUNT et al CAMERON c-50 60° 10'N, 117° 30'W

SULPHUR POINT: 1360.0-1362.0 mKB

A flow and buildup test was conducted on the subject well from March 14-27 2001. As requested, the test data has been analyzed to establish the formation characteristics, deliverability potential and reservoir pressure of the Sulphur Point formation at this well.

If you should have any further questions or concerns, please do not hesitate to contact the undersigned, or Marty Santo at (403) 213-4226.

Yours truly,
FEKETE ASSOCIATES INC.

(ORIGINAL SIGNED BY)

Charity Engelking
Reservoir Analyst

(ORIGINAL SIGNED BY)

L.Mattar, P.Eng.
President

CE/MSS/ce

REPORT DISTRIBUTION

"Four" (4) Copies of the Report to:

**PARAMOUNT RESOURCES LIMITED
CALGARY, ALBERTA**

ATTENTION: Lloyd Doyle

PARAMOUNT et al CAMERON
c-50 60° 10'N, 117° 30'W
SULPHUR POINT: 1360.0-1362.0 mKB

CONCLUSIONS

- The pressure behavior observed during this test suggests there is a significant decrease in kh away from the wellbore. This is consistent with the previous test performed in 1991.
- Assuming a constant net pay (h), a good match is achieved with the measured pressures by simulating a decrease in permeability from 97 mD to 3.8 mD approximately 140 meters away from the well. A total positive skin value of +26 is required to obtain the match. A skin due to turbulence of +13.1, and a skin due to partial penetration of +8.7 are indicated. Therefore, the skin due to damage is minimal.
- The region of influence during this test is estimated to be 470 m (69 ha), and a one-section drainage area is assumed to forecast the deliverability.
- The model extrapolates the buildup to a reservoir pressure in the order of 9977 kPaa, based on an assumed one-section drainage area. This confirms the reservoir pressure established from the 1991 test. There is no evidence of depletion.
- Transient deliverability forecasts show the deliverability potential will decrease to about 95 10³m³/d within the first year of production.

TEST RESULTS

PRESSURE SUMMARY					
Extrapolated Reservoir Pressure	(p _R)	9977	kPaa	1447	psia
Final Measured Pressure (@ 191hrs)		9833	kPaa	1426	psia

RESERVOIR CHARACTERISTICS-COMPOSITE MODEL					
Region 1					
Flow Capacity	(kh)	689	mD.m	2289	md.ft
Permeability	(k ₁)	97.0	mD	98.3	md
Skin	(s ₁)	+25.8			
Net Pay	(h ₁)	7.1	m	23.3	ft
Radius	(r _{e1})	140	m	459	ft
Region 2					
Flow Capacity	(kh)	27.0	mD.m	89.7	md.ft
Permeability	(k ₂)	3.8	mD	3.9	md
Net Pay	(h ₂)	7.1	m	23.3	ft
Drainage Radius (Assumed)	(r _{e2})	908	m	2979	ft

PRODUCTION AND DELIVERABILITY					
Final Gas Rate @ pwf=7576 kPaa		127.5	10 ³ m ³ /d	4.5	MMcfd
Predicted Gas Rate (@ 3 Mths)		81.0	10 ³ m ³ /d	2.9	MMcfd
Predicted Sandface AOF (@ 3 Mths)	(n=0.78)	162.1	10 ³ m ³ /d	5.8	MMcfd
Predicted Wellhead AOF (@ 3 Mths)	(n=0.72)	146.6	10 ³ m ³ /d	5.2	MMcfd

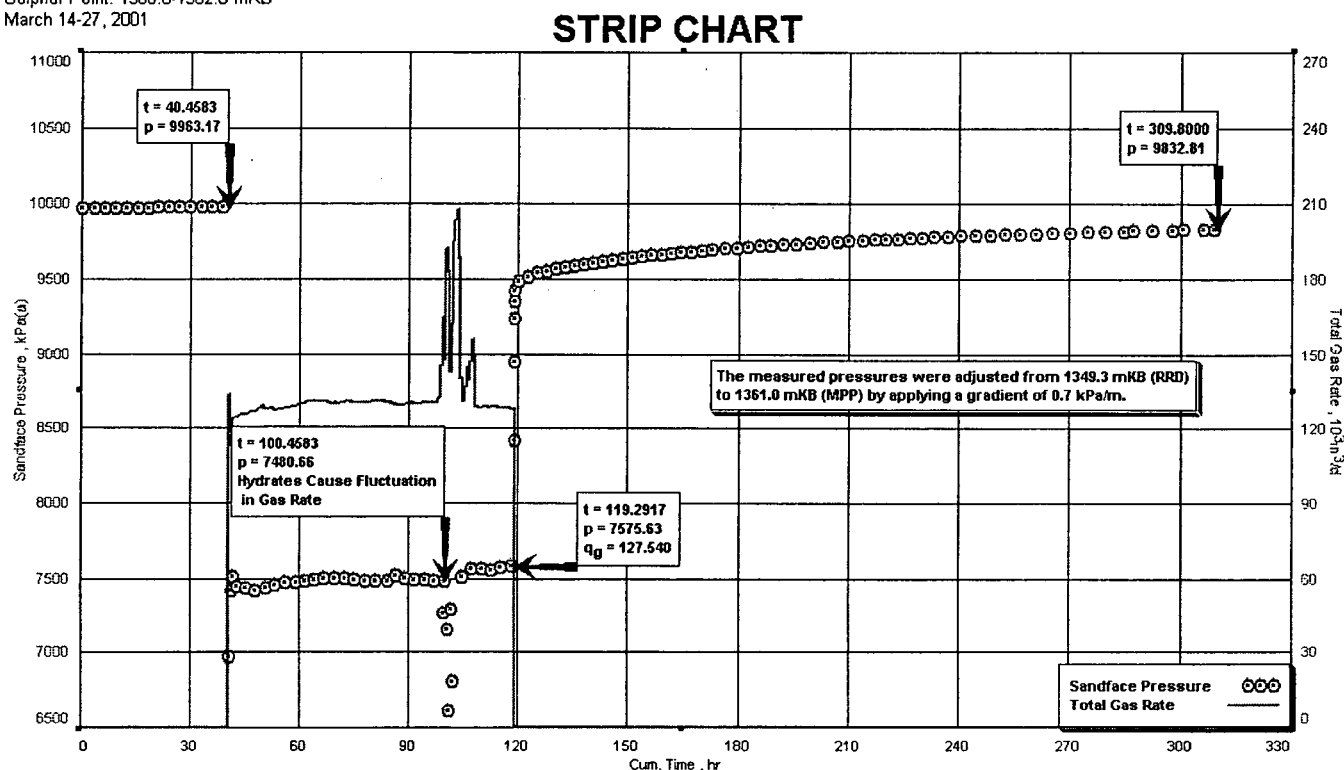
Note: There was no liquid produced during the test.

Background and Test Overview

Well 300/c-50 60° 10'N, 117° 30'W is completed in the Sulphur Point formation, over the interval: 1360.0-1362.0 mKB. This is the second formation to be completed at this well. The initial flow/buildup test was performed on this well from February 10-March 20, 1991, and the well was left standing until the date of this test.

A static gradient survey was performed on March 6, 2001, and a single point flow and buildup test was initiated on March 14, 2001, when tandem electronic pressure recorders were set downhole. The shut-in pressures were then monitored for 2 days, prior to flowing the well on test for 79 hours. The gas rate and bottom hole flowing pressures remain fairly steady up until 60 hours of flow, when hydrates cause a fluctuation in the gas rate/flowing pressure. Upon completion of the flow test, the well was shut-in, and the bottom hole buildup pressures were monitored for 190 hours. On March 27, 2001, the recorders were retrieved from the wellbore, and an ascending static gradient survey was performed to complete the test. The gas rate and bottom hole pressure profile is illustrated in the following figure.

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300/c-50-60-10-117-30/0
Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

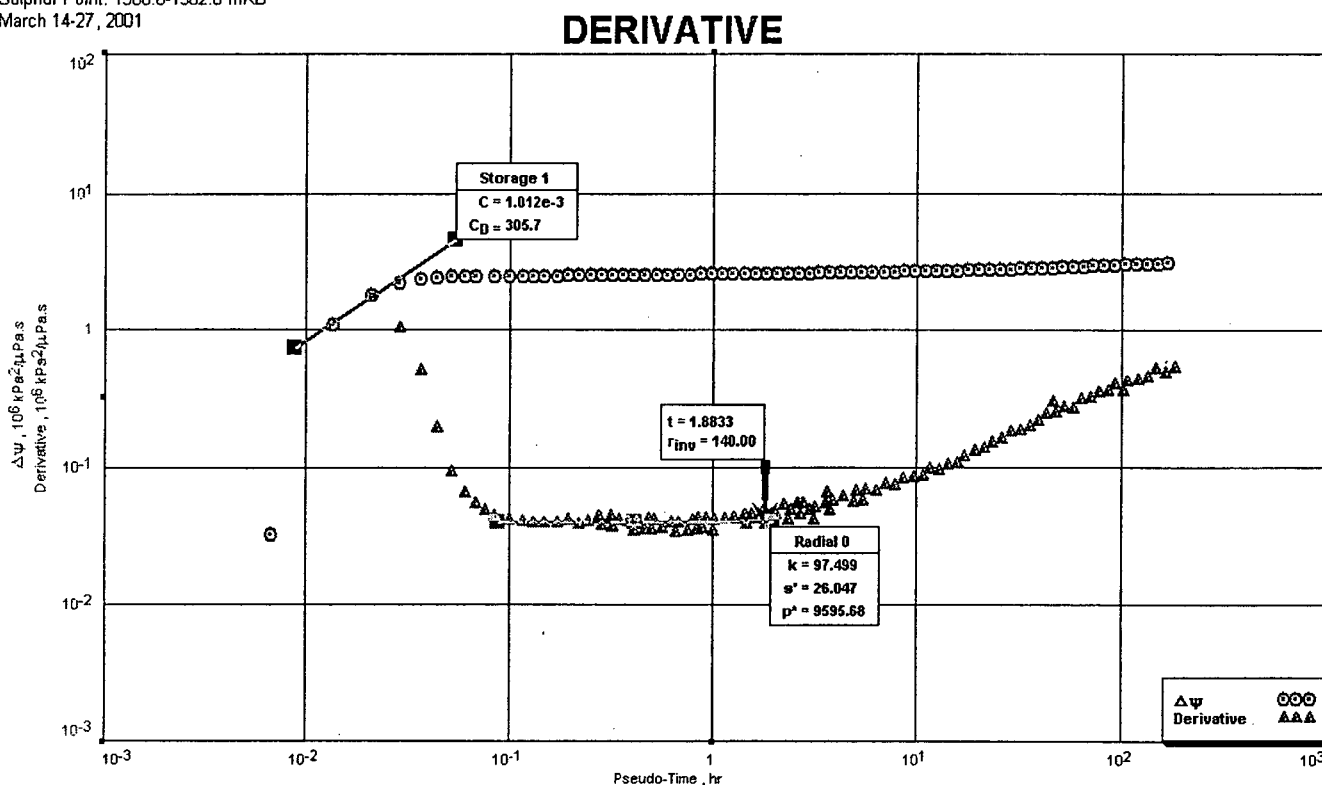


During the flow test, the well produced $436 \times 10^3 \text{ m}^3$ of gas. No fluid production was reported.

Pressure Transient Analysis

This analysis is focused on the buildup data. To identify the flow regimes that are developed within the buildup test, a diagnostic type curve and pressure derivative plot is generated (below).

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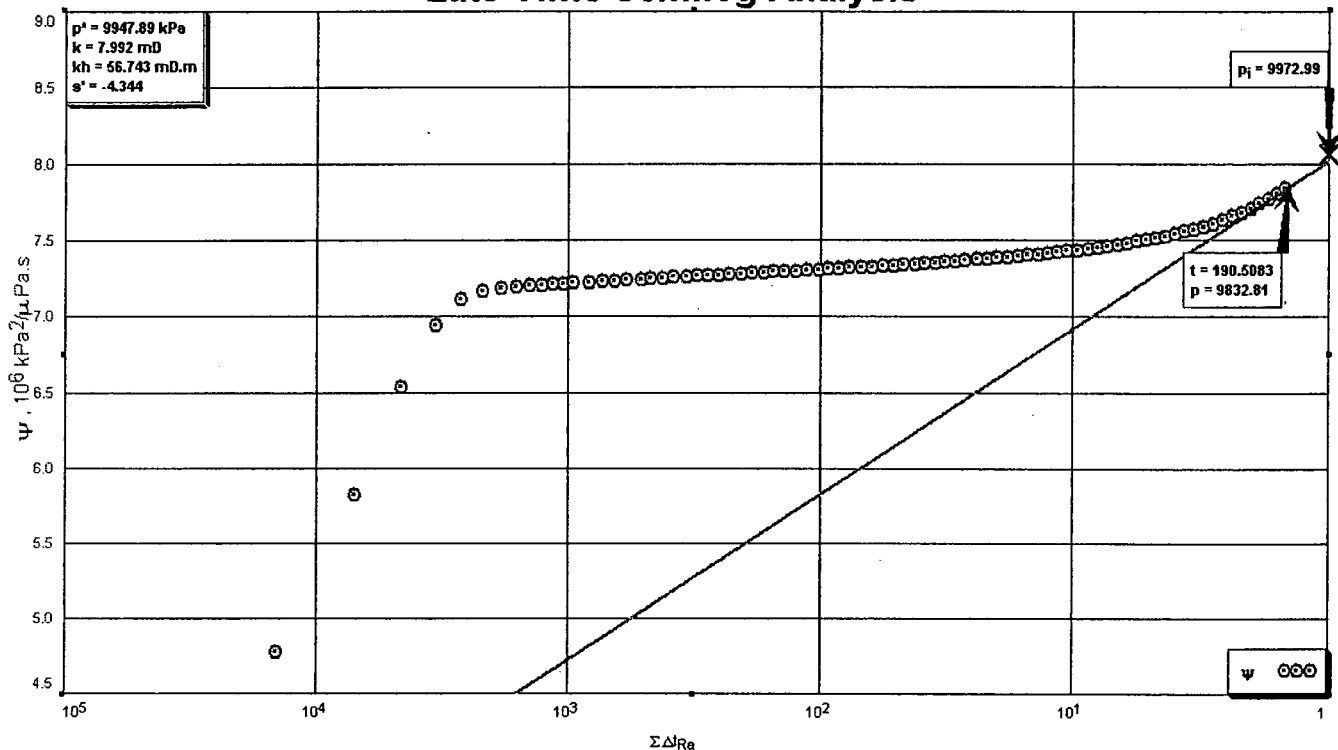


It is evident from this figure that radial flow is developed prior to 1.9 hours of shut-in. The pressure response observed after this time suggests a decrease in permeability away from the wellbore. This is consistent with the initial test analysis performed in 1991.

The permeability and skin of the inner region are estimated by performing a radial analysis of the data measured prior to 1.9 hours of shut-in (above), which yields values of 97.5 mD and +26, respectively. The permeability of the outer region is estimated by performing a late-time semilog analysis (following page), which yields a permeability value of 8 mD. This value is considered to be optimistic, since radial flow is not achieved in the late-time.

Based on a permeability of 97.5 mD, the radius of investigation at 1.9 hours of shut-in is estimated to be 140 meters, which represents the radius of the inner region.

Late-Time Semilog Analysis



Pressure History Matching

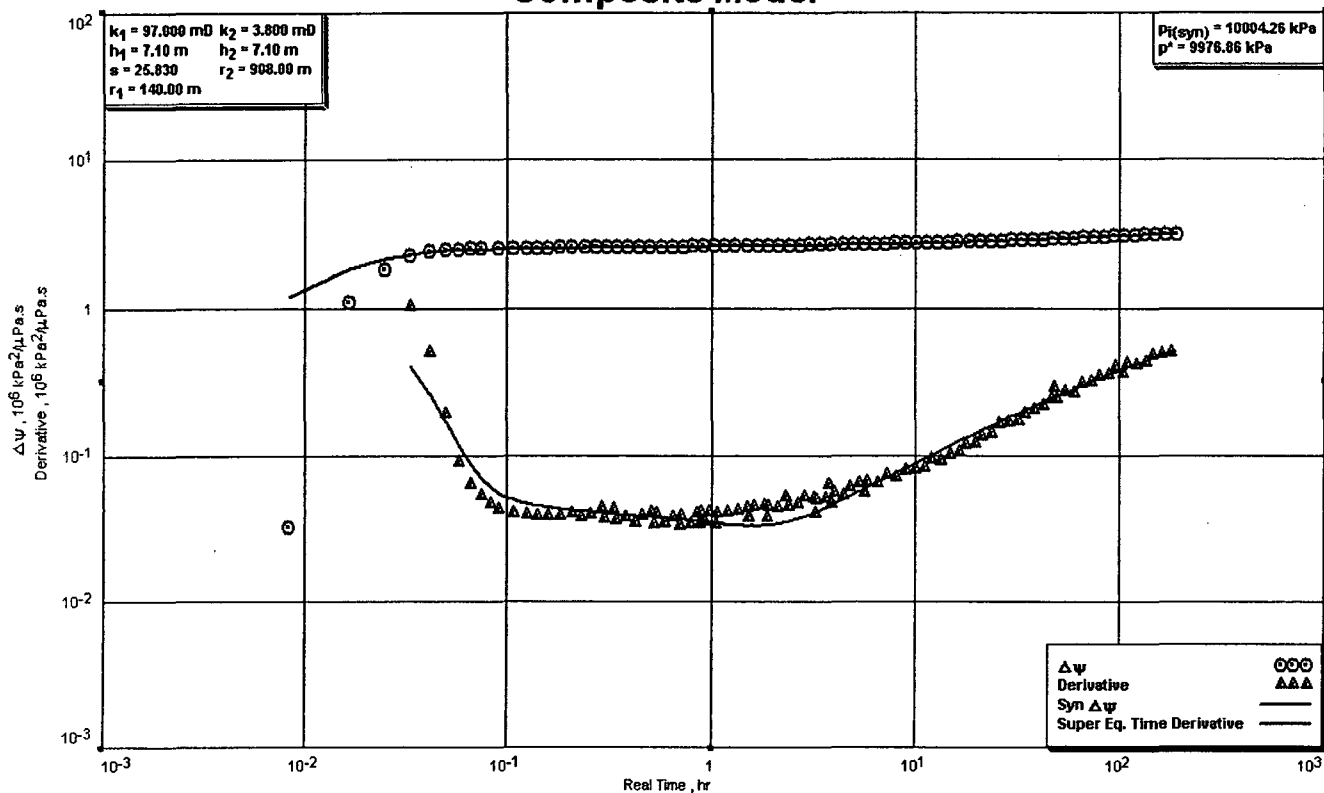
Modeling is undertaken using a radial composite model, to simulate a decrease in k away from the wellbore. In this case, the late-time pressure behavior is interpreted to be due to a decrease in permeability, but a decrease in net pay would cause the same pressure behavior.

The permeability, skin, and radius of the inner region estimated from the semilog and derivative analyses are entered into the model as starting parameters. These values are then varied until synthetic pressures are generated to match the measured pressures. A good match with the entire test is obtained simulating a decrease in permeability from 97.0 mD to 3.8 mD approximately 140 meters away from the well. A total positive skin value of +26 is required to obtain the match. By establishing the turbulent factor (D) from the 4-point test performed in 1991, a skin due to turbulence of +13.1 is estimated. The radial analysis yields a skin due to partial penetration of +8.7. Therefore, the skin due to damage is minimal.

The region of influence during this test is estimated to be 470 m (69 ha), and a one-section drainage area is assumed to forecast the deliverability. This match is illustrated in the following three figures.

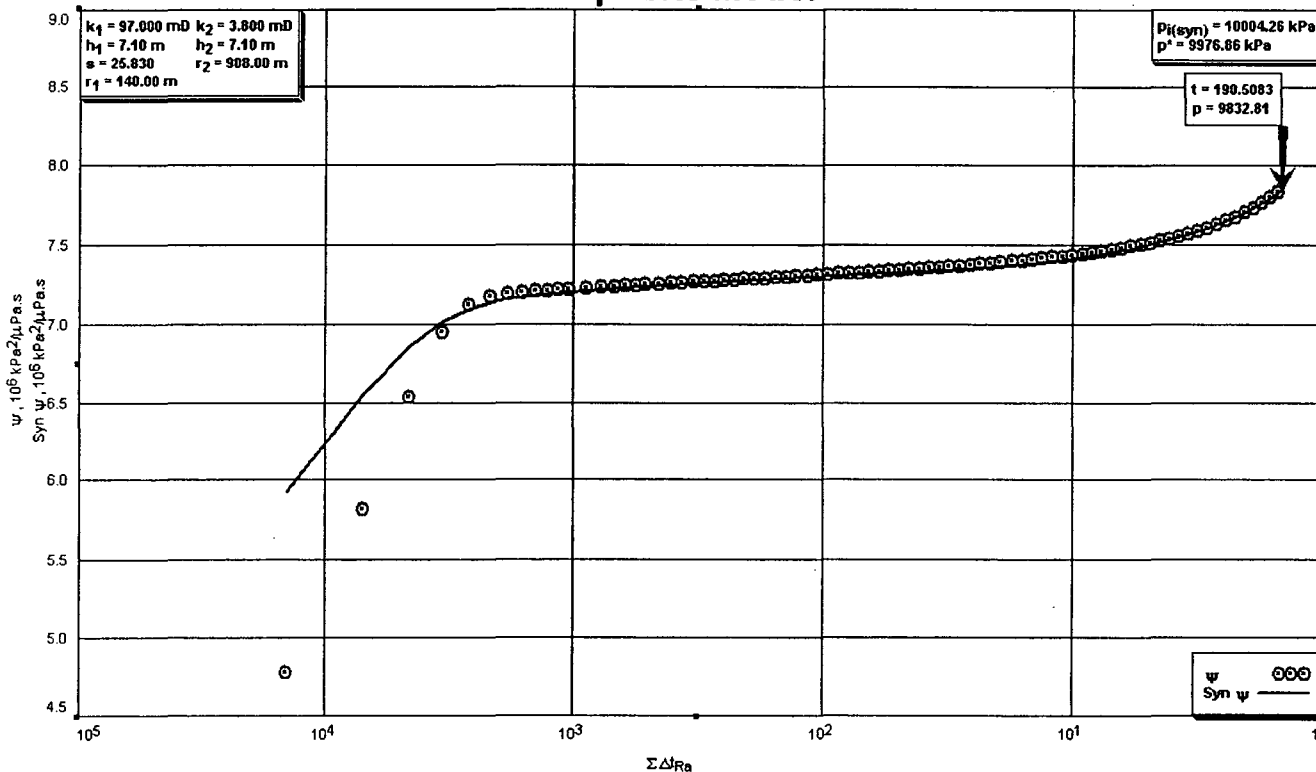
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Sulphur Point: 1360.0-1362.0 mKB
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Composite Model

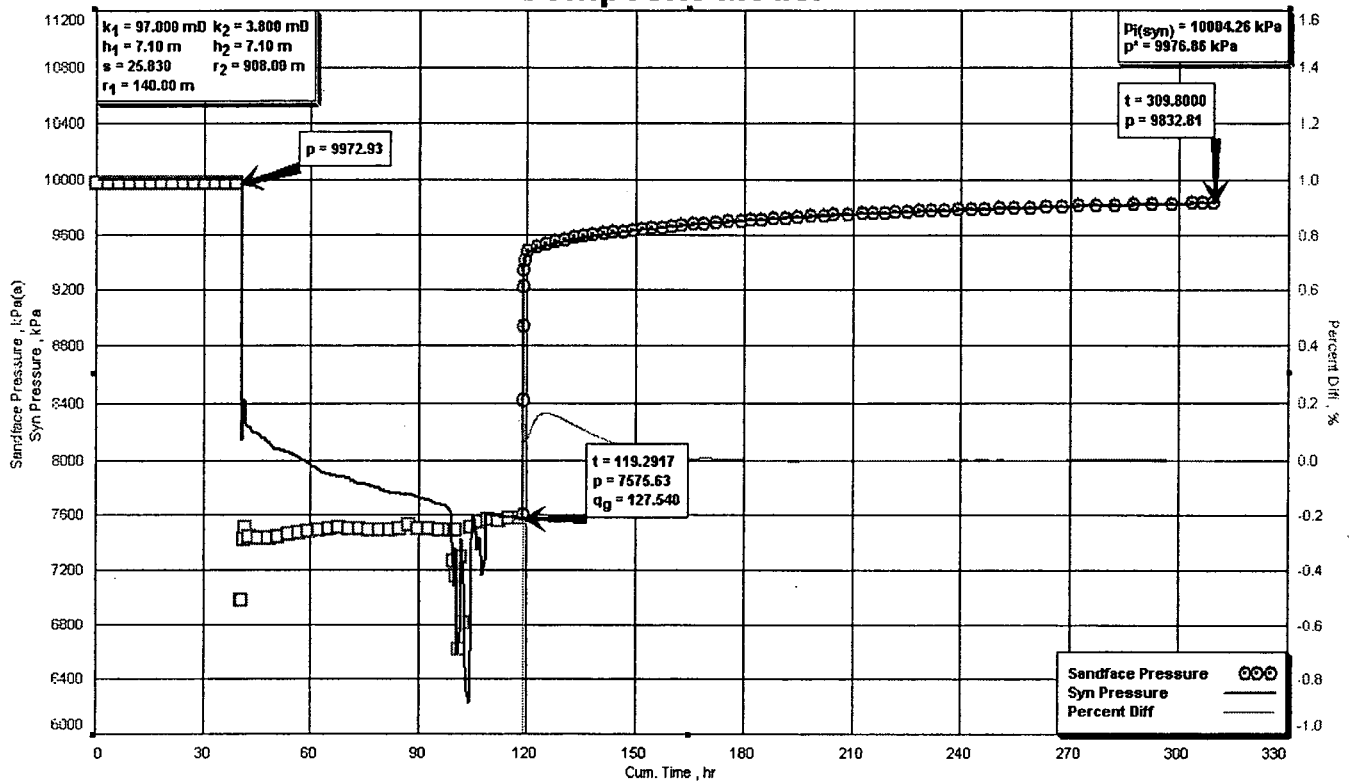


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March 14-27, 2001

Composite Model



Composite Model



Reservoir Pressure

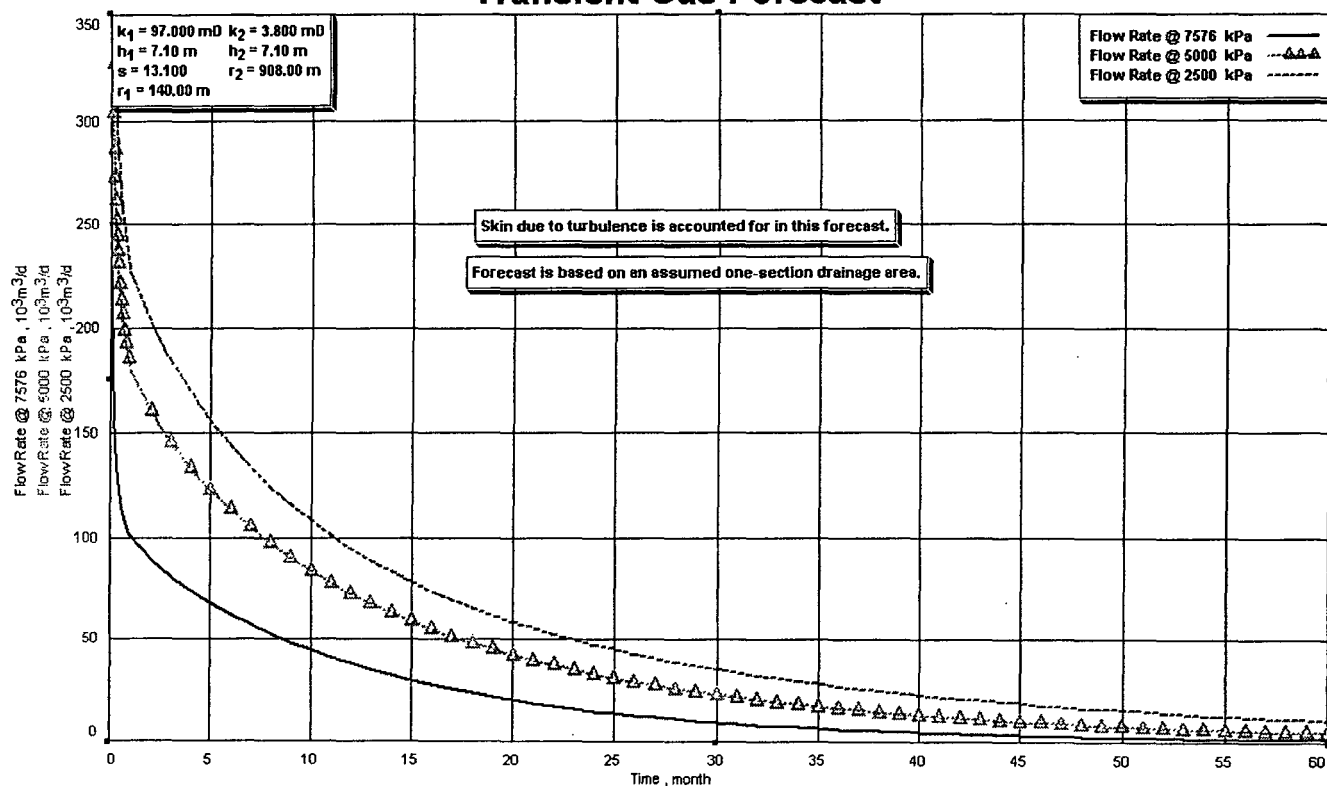
The highest pressure measured prior to the flow test is 9973 kPaa. After 191 hours os shut-in, the sandface pressure had returned to 9833 kPaa, and the model extrapolates the buildup to a reservoir pressure in the order of 9977 kPaa.

These pressures are in good agreement with those established from the 1991 flow and buildup test. There is no evidence of depletion.

AOF and Deliverability

Transient deliverability forecasts are generated at sandface flowing pressures of 2500, 5000 and 7576 kPaa (final test pressure) to illustrate the expected deliverability profile of this well at different drawdowns. It is evident from these forecasts (following page) that the deliverability will decrease to about $95 \text{ } 10^3 \text{ m}^3/\text{d}$ within the first year of production.

Transient Gas Forecast



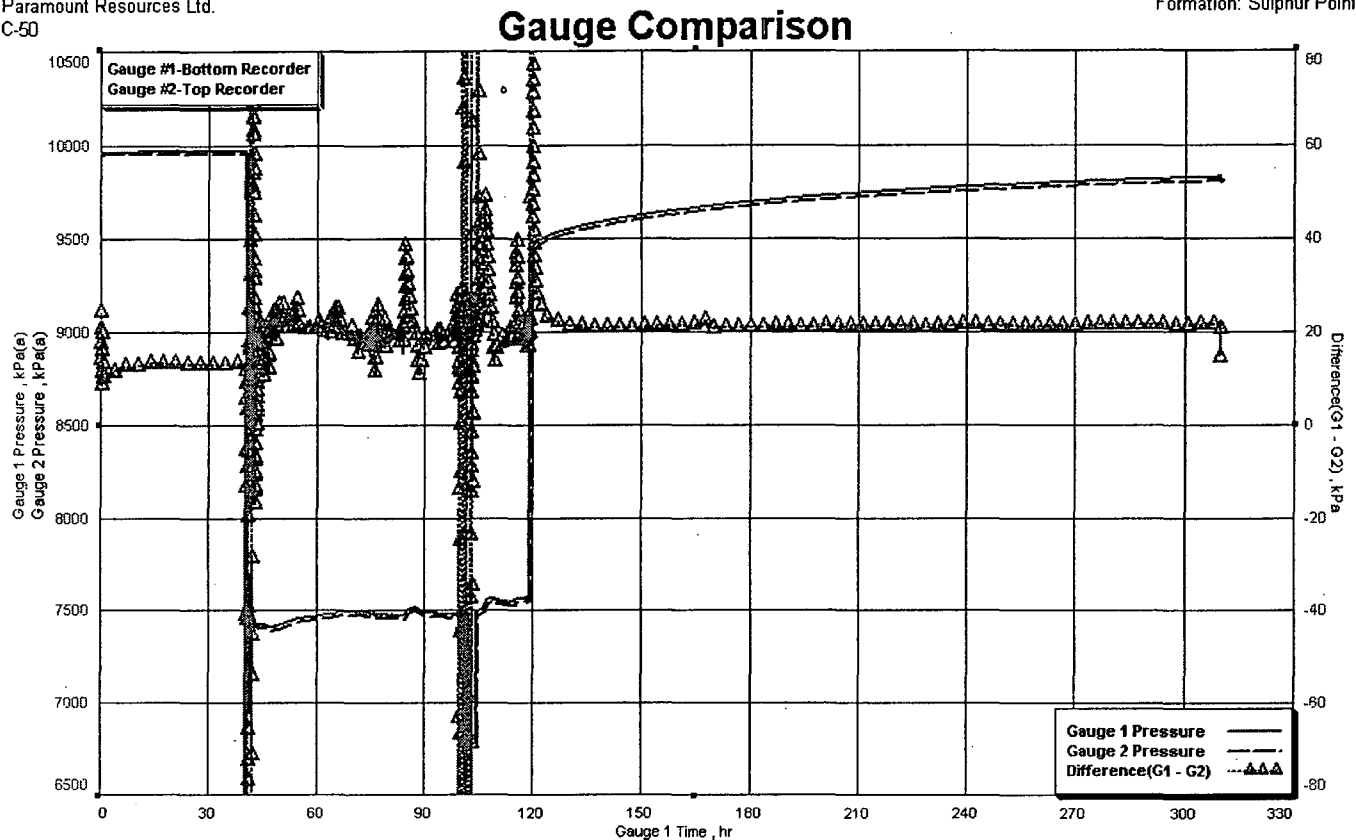
By plotting the isochronal data obtained from the 1991 four-point test, sandface and wellhead reciprocal slope values "n" were determined. These calculated "n" values were then applied to the final flow point and the predicted three-month rate of $81.0 \text{ } 10^3 \text{ m}^3/\text{d}$ at a sandface flowing pressure of 7576 kPa to estimate the deliverability potential. At the end of the flow test, the sandface and wellhead AOFs are indicated to be $255 \text{ } 10^3 \text{ m}^3/\text{d}$ and $213 \text{ } 10^3 \text{ m}^3/\text{d}$, respectively. After three months of production, a sandface AOF of $162 \text{ } 10^3 \text{ m}^3/\text{d}$ and a wellhead AOF of $147 \text{ } 10^3 \text{ m}^3/\text{d}$ are predicted.

Subsurface Pressure Data

The subsurface pressures and temperatures were monitored with dual electronic recorders. The data obtained from the recorders are compared, as illustrated in the figure below. Both recorders exhibit similar stability throughout the test, and the bottom pressure recorder data were used for pressure transient analysis.

Paramount Resources Ltd.
C-50

Formation: Sulphur Point



The measured pressures were adjusted from 1349.3 mKB (RRD) to 1361.0 mKB (MPP) by applying a gradient of 0.7 kPa/m.

$$\text{Increment} = (1361.0 - 1349.3) \text{ mKB} \times 0.7 \text{ kPa/m} = +8.2 \text{ kPa}$$

Flow Volumes

The gas rates were accepted as presented by Solid Production Services, and are included in the "Test Data" section of this report.

Gas Properties

The reservoir gas properties were determined from correlations based on the compositional analysis of gas samples taken in February, 1991. An H₂S content of 0.8% is assumed for this analysis.

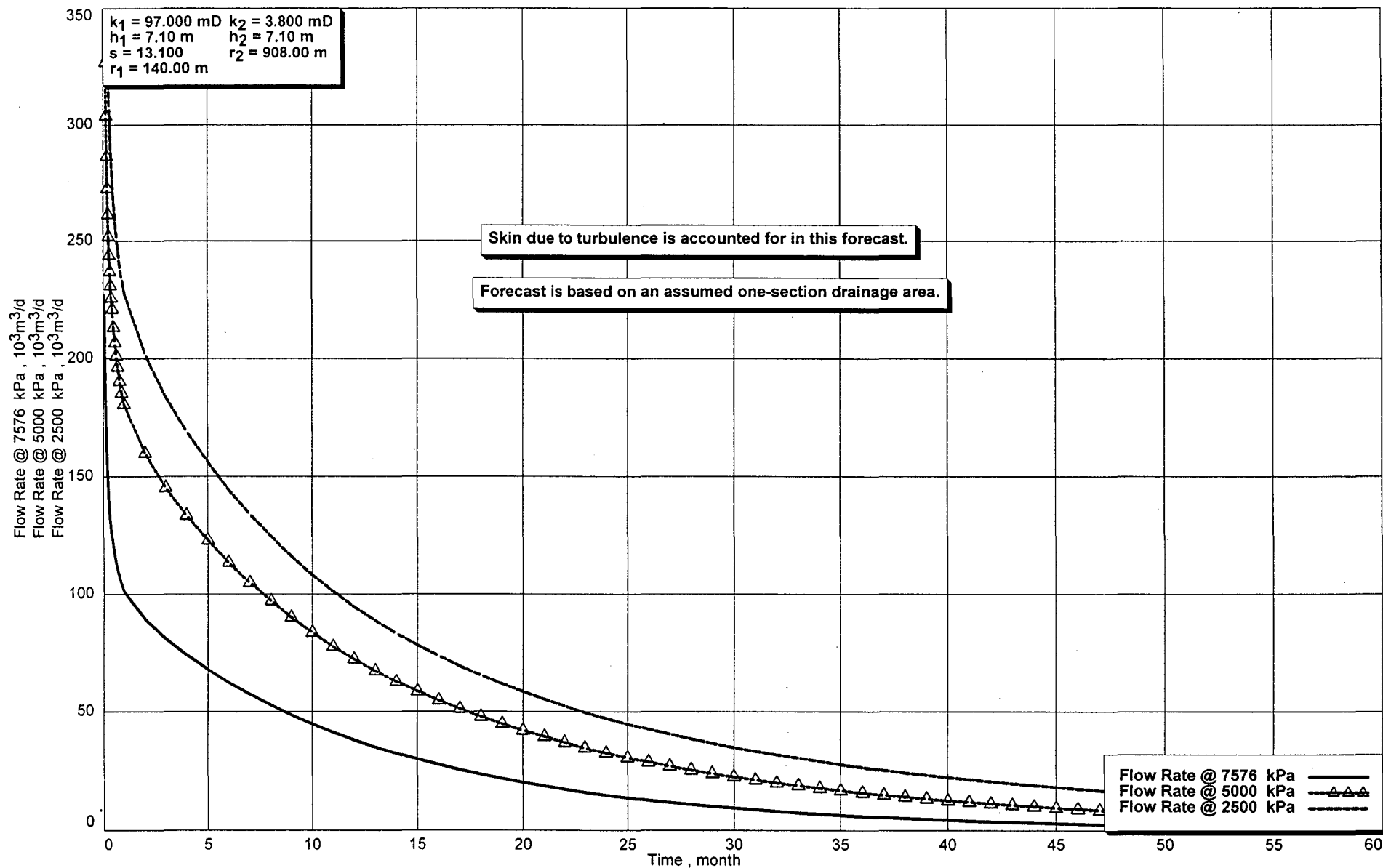
Petrophysical Parameters

The net pay, porosity and water saturation values used for the pressure transient analysis were supplied by Paramount Resources Limited, and are as follows:

$$\begin{array}{rcl} h & = & 7.1 \text{ m} \\ \phi & = & 10.7 \% \\ S_w & = & 24.0 \% \end{array}$$

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 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

Transient Gas Forecast



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Transient Gas Forecast

Composite Model #2

Paramount et al Cameron
Sulphur Point: 1360.0-1362.0 mKB

300/c-50-60-10-117-30/0
March 14-27, 2001

Forecast @ 7576 kPa

Forecast @ 5000 kPa

Forecast @ 2500 kPa

Time	Rate	Cum. Prod.	Resv. Press.	Time	Rate	Cum. Prod.	Resv. Press.	Time	Rate	Cum. Prod.	Resv. Press.
month	10 ³ m ³ /d	10 ³ m ³	kPa	month	10 ³ m ³ /d	10 ³ m ³	kPa	month	10 ³ m ³ /d	10 ³ m ³	kPa
0.0000	227.146	0.0	10004.0	0.0000	405.699	0.0	10004.0	0.0000	511.266	0.0	10004.0
0.0329	227.146	227.1	9989.8	0.0329	405.699	405.7	9978.6	0.0329	511.266	511.3	9972.0
0.0657	200.714	427.9	9977.2	0.0657	358.528	764.2	9956.2	0.0657	451.850	963.1	9943.7
0.0986	183.009	610.9	9965.8	0.0986	326.941	1091.2	9935.7	0.0986	412.068	1375.2	9917.9
0.1314	170.141	781.0	9955.1	0.1314	303.986	1395.2	9916.6	0.1314	383.162	1758.3	9893.9
0.1643	160.308	941.3	9945.1	0.1643	286.449	1681.6	9898.7	0.1643	361.080	2119.4	9871.2
0.1971	152.522	1093.8	9935.5	0.1971	272.561	1954.2	9881.6	0.1971	343.594	2463.0	9849.7
0.2300	146.182	1240.0	9926.3	0.2300	261.256	2215.4	9865.2	0.2300	329.360	2792.4	9829.0
0.2628	140.910	1380.9	9917.5	0.2628	251.855	2467.3	9849.4	0.2628	317.524	3109.9	9809.0
0.2957	136.447	1517.4	9909.0	0.2957	243.896	2711.2	9834.1	0.2957	307.503	3417.4	9789.8
0.3285	132.607	1650.0	9900.7	0.3285	237.048	2948.2	9819.2	0.3285	298.882	3716.3	9771.0
0.3614	129.266	1779.3	9892.5	0.3614	231.092	3179.3	9804.7	0.3614	291.385	4007.7	9752.8
0.3943	126.327	1905.6	9884.6	0.3943	225.851	3405.2	9790.5	0.3943	284.787	4292.5	9734.9
0.4271	123.713	2029.3	9876.9	0.4271	221.192	3626.4	9776.7	0.4271	278.922	4571.4	9717.4
0.4600	121.376	2150.7	9869.3	0.4600	217.024	3843.4	9763.1	0.4600	273.676	4845.1	9700.2
0.4928	119.262	2269.9	9861.8	0.4928	213.258	4056.6	9749.7	0.4928	268.936	5114.0	9683.4
0.5257	117.345	2387.3	9854.4	0.5257	209.839	4266.5	9736.5	0.5257	264.632	5378.6	9666.7
0.5585	115.594	2502.9	9847.2	0.5585	206.721	4473.2	9723.6	0.5585	260.708	5639.3	9650.4
0.5914	113.982	2616.9	9840.0	0.5914	203.847	4677.0	9710.8	0.5914	257.091	5896.4	9634.2
0.6242	112.501	2729.4	9832.9	0.6242	201.206	4878.3	9698.2	0.6242	253.767	6150.2	9618.3
0.6571	111.125	2840.5	9826.0	0.6571	198.757	5077.0	9685.7	0.6571	250.687	6400.9	9602.5
0.6899	109.844	2950.3	9819.1	0.6899	196.475	5273.5	9673.3	0.6899	247.814	6648.7	9586.9
0.7228	108.653	3059.0	9812.2	0.7228	194.352	5467.8	9661.1	0.7228	245.142	6893.8	9571.5
0.7556	107.538	3166.5	9805.5	0.7556	192.367	5660.2	9649.1	0.7556	242.647	7136.5	9556.3
0.7885	106.485	3273.0	9798.8	0.7885	190.491	5850.7	9637.1	0.7885	240.286	7376.8	9541.2
0.8214	105.497	3378.5	9792.2	0.8214	188.731	6039.4	9625.2	0.8214	238.071	7614.8	9526.3
0.8542	104.568	3483.1	9785.7	0.8542	187.075	6226.5	9613.5	0.8542	235.987	7850.8	9511.4
0.8871	103.685	3586.7	9779.2	0.8871	185.507	6412.0	9601.8	0.8871	234.018	8084.8	9496.7
0.9199	102.846	3689.6	9772.7	0.9199	184.011	6596.0	9590.2	0.9199	232.136	8317.0	9482.1
0.9528	102.051	3791.6	9766.3	0.9528	182.595	6778.6	9578.8	0.9528	230.355	8547.3	9467.6
0.9856	101.296	3892.9	9760.0	0.9856	181.252	6959.9	9567.4	0.9856	228.665	8776.0	9453.3
1.0000	100.962	3937.1	9757.2	1.0000	180.656	7038.9	9562.4	1.0000	227.916	8875.7	9447.0
2.0000	89.246	6653.5	9586.6	2.0000	159.888	11905.5	9256.3	2.0000	201.862	15019.9	9059.9
3.0000	80.963	9117.8	9431.8	3.0000	145.375	16330.3	8977.1	3.0000	183.778	20613.6	8706.1
4.0000	74.082	11372.7	9289.8	4.0000	133.463	20392.6	8720.1	4.0000	169.054	25759.2	8379.5
5.0000	67.961	13441.3	9159.5	5.0000	122.952	24135.0	8482.7	5.0000	156.135	30511.5	8076.6
6.0000	62.419	15341.2	9039.6	6.0000	113.485	27589.2	8263.0	6.0000	144.564	34911.7	7795.0
7.0000	57.380	17087.7	8929.3	7.0000	104.918	30782.6	8059.3	7.0000	134.128	38994.2	7532.6
8.0000	52.787	18694.4	8827.7	8.0000	97.140	33739.3	7870.1	8.0000	124.686	42789.4	7287.7
9.0000	48.595	20173.5	8734.0	9.0000	90.061	36480.5	7694.3	9.0000	116.117	46323.7	7058.8
10.0000	44.765	21536.0	8647.7	10.0000	83.605	39025.3	7530.6	10.0000	108.317	49620.6	6844.4
11.0000	41.260	22791.9	8568.0	11.0000	77.703	41390.3	7378.1	11.0000	101.201	52700.9	6643.3
12.0000	38.050	23950.0	8494.5	12.0000	72.297	43590.9	7235.9	12.0000	94.697	55583.3	6454.5
13.0000	35.108	25018.6	8426.5	13.0000	67.337	45640.4	7103.1	13.0000	88.743	58284.4	6276.9
14.0000	32.408	26005.0	8363.9	14.0000	62.778	47551.3	6979.1	14.0000	83.281	60819.2	6109.6
15.0000	29.928	26915.9	8305.9	15.0000	58.581	49334.3	6863.0	15.0000	78.261	63201.3	5951.9
16.0000	27.650	27757.6	8252.3	16.0000	54.711	50999.6	6754.5	16.0000	73.639	65442.7	5803.0
17.0000	25.555	28535.4	8202.6	17.0000	51.138	52556.1	6652.8	17.0000	69.374	67554.3	5662.3
18.0000	23.628	29254.6	8156.8	18.0000	47.835	54012.1	6557.5	18.0000	65.433	69545.9	5529.2
19.0000	21.852	29919.7	8114.4	19.0000	44.779	55375.0	6468.1	19.0000	61.784	71426.4	5403.2
20.0000	20.217	30535.0	8075.1	20.0000	41.947	56651.8	6384.3	20.0000	58.400	73204.0	5283.7
21.0000	18.708	31104.5	8038.7	21.0000	39.321	57848.6	6305.6	21.0000	55.257	74885.9	5170.4
22.0000	17.317	31631.5	8005.0	22.0000	36.883	58971.2	6231.6	22.0000	52.334	76478.8	5062.7
23.0000	16.033	32119.5	7973.8	23.0000	34.616	60024.9	6162.0	23.0000	49.612	77988.8	4960.5
24.0000	14.847	32571.5	7944.9	24.0000	32.507	61014.3	6096.7	24.0000	47.072	79421.6	4863.2
25.0000	13.753	32990.1	7918.1	25.0000	30.542	61943.9	6035.2	25.0000	44.701	80782.2	4770.6

Transient Gas Forecast

Composite Model #2

Paramount et al Cameron
Sulphur Point: 1360.0-1362.0 mKB

300/c-50-60-10-117-30/0
March 14-27, 2001

Forecast @ 7576 kPa

Time	Rate	Cum. Prod.	Resv. Press.
month	10 ³ m ³ /d	10 ³ m ³	kPa
26.0000	12.741	33377.9	7893.3
27.0000	11.806	33737.2	7870.3
28.0000	10.941	34070.2	7848.9
29.0000	10.141	34378.9	7829.1
30.0000	9.401	34665.0	7810.8
31.0000	8.716	34930.3	7793.8
32.0000	8.082	35176.3	7778.0
33.0000	7.495	35404.5	7763.3
34.0000	6.952	35616.0	7749.7
35.0000	6.448	35812.3	7737.2
36.0000	5.982	35994.4	7725.5
37.0000	5.549	36163.3	7714.6
38.0000	5.149	36320.0	7704.6
39.0000	4.778	36465.4	7695.2
40.0000	4.433	36600.4	7686.6
41.0000	4.114	36725.6	7678.5
42.0000	3.818	36841.8	7671.1
43.0000	3.543	36949.6	7664.2
44.0000	3.288	37049.7	7657.7
45.0000	3.052	37142.6	7651.8
46.0000	2.833	37228.8	7646.2
47.0000	2.630	37308.9	7641.1
48.0000	2.441	37383.2	7636.3
49.0000	2.266	37452.1	7631.9
50.0000	2.104	37516.2	7627.7
51.0000	1.953	37575.6	7623.9
52.0000	1.813	37630.8	7620.4
53.0000	1.684	37682.1	7617.1
54.0000	1.563	37729.6	7614.0
55.0000	1.451	37773.8	7611.2
56.0000	1.348	37814.8	7608.5
57.0000	1.251	37852.9	7606.1
58.0000	1.162	37888.3	7603.8
59.0000	1.079	37921.2	7601.7
60.0000	1.002	37951.7	7599.7

Forecast @ 5000 kPa

Time	Rate	Cum. Prod.	Resv. Press.
month	10 ³ m ³ /d	10 ³ m ³	kPa
26.0000	28.710	62817.8	5977.3
27.0000	27.001	63639.6	5922.8
28.0000	25.406	64412.9	5871.5
29.0000	23.914	65140.8	5823.1
30.0000	22.520	65826.2	5777.5
31.0000	21.214	66471.9	5734.5
32.0000	19.992	67080.4	5693.9
33.0000	18.846	67654.1	5655.6
34.0000	17.771	68195.0	5619.5
35.0000	16.763	68705.2	5585.4
36.0000	15.816	69186.6	5553.2
37.0000	14.927	69641.0	5522.8
38.0000	14.092	70069.9	5494.1
39.0000	13.306	70474.9	5467.0
40.0000	12.567	70857.4	5441.3
41.0000	11.872	71218.8	5417.1
42.0000	11.218	71560.2	5394.2
43.0000	10.601	71882.9	5372.5
44.0000	10.021	72187.9	5352.0
45.0000	9.474	72476.2	5332.7
46.0000	8.958	72748.9	5314.3
47.0000	8.471	73006.7	5297.0
48.0000	8.012	73250.6	5280.6
49.0000	7.579	73481.3	5265.0
50.0000	7.170	73699.5	5250.3
51.0000	6.784	73906.0	5236.4
52.0000	6.420	74101.4	5223.2
53.0000	6.076	74286.4	5210.8
54.0000	5.751	74461.4	5199.0
55.0000	5.443	74627.1	5187.8
56.0000	5.153	74783.9	5177.2
57.0000	4.879	74932.4	5167.2
58.0000	4.620	75073.0	5157.7
59.0000	4.375	75206.2	5148.7
60.0000	4.143	75332.3	5140.2

Forecast @ 2500 kPa

Time	Rate	Cum. Prod.	Resv. Press.
month	10 ³ m ³ /d	10 ³ m ³	kPa
26.0000	42.483	82075.3	4682.4
27.0000	40.406	83305.1	4598.4
28.0000	38.460	84475.7	4518.3
29.0000	36.634	85590.8	4441.9
30.0000	34.919	86653.6	4368.9
31.0000	33.306	87667.4	4299.1
32.0000	31.789	88635.0	4232.4
33.0000	30.359	89559.0	4168.5
34.0000	29.011	90442.0	4107.4
35.0000	27.738	91286.3	4048.9
36.0000	26.536	92094.0	3992.8
37.0000	25.399	92867.1	3939.1
38.0000	24.324	93607.4	3887.5
39.0000	23.305	94316.8	3838.0
40.0000	22.340	94996.8	3790.5
41.0000	21.424	95648.9	3744.9
42.0000	20.555	96274.5	3701.1
43.0000	19.730	96875.1	3659.0
44.0000	18.945	97451.7	3618.6
45.0000	18.199	98005.6	3579.8
46.0000	17.488	98537.9	3542.4
47.0000	16.812	99049.6	3506.4
48.0000	16.167	99541.7	3471.8
49.0000	15.553	100015.1	3438.5
50.0000	14.966	100470.6	3406.4
51.0000	14.407	100909.1	3375.4
52.0000	13.872	101331.4	3345.6
53.0000	13.362	101738.1	3316.9
54.0000	12.873	102129.9	3289.1
55.0000	12.406	102507.5	3262.4
56.0000	11.960	102871.5	3236.6
57.0000	11.532	103222.5	3211.7
58.0000	11.122	103561.1	3187.7
59.0000	10.729	103887.6	3164.5
60.0000	10.353	104202.7	3142.1

Sandface Deliverability

L.I.T. Analysis

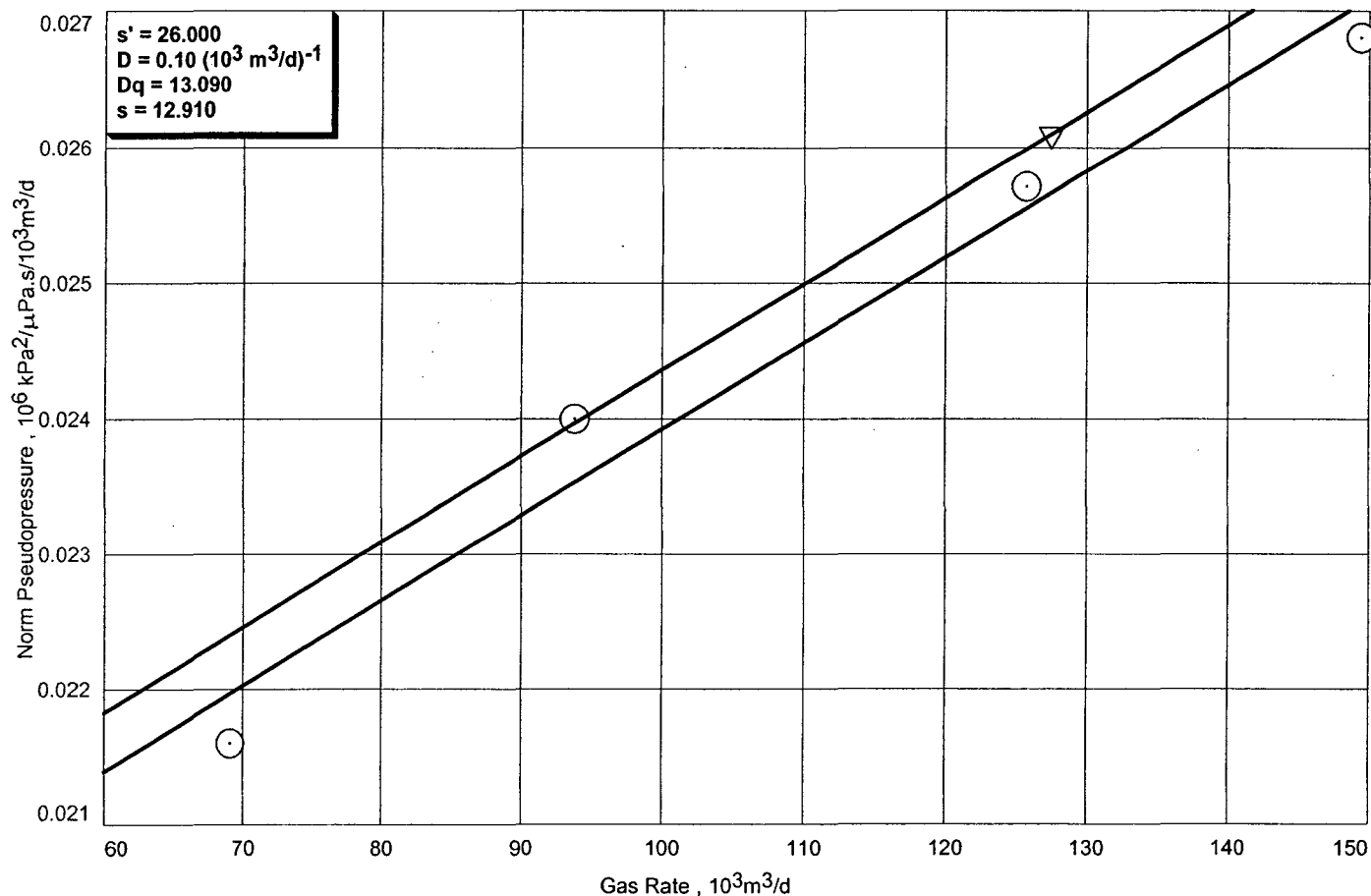
(Pseudo Pressure)

Paramount et al Cameron
300/c-50-60-10-117-30/0

Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

	Time hr	Sandface Pressure kPa	Pseudo Pressure $10^6 \text{ kPa}^2 / \mu\text{Pa.s}$	$\Delta \Psi$ / Rate $(10^6 \text{ kPa}^2 / \mu\text{Pa.s}) / (10^3 \text{ m}^3/\text{d})$	Gas Rate $10^3 \text{ m}^3/\text{d}$
Shut-in		9795.00	7.788		
Flow #1	4.0000	8769.00	6.296	0.022	69.090
Shut-in	4.0000	9762.00	7.738		
Flow #2	4.0000	8168.00	5.487	0.024	93.810
Shut-in	4.0000	9774.00	7.757		
Flow #3	4.0000	7398.00	4.525	0.026	125.690
Shut-in	4.0000	9761.00	7.737		
Flow #4	4.0000	6703.00	3.731	0.027	149.470
Extended Flow	79.0000	7576.00	4.740	0.026	127.500
Stab. Shut-in		9977.00	8.068		
Stab. Flow					

	Stabilized	Extended	Transient
AOF		241.934	244.107
a		$1.803\text{e-}2$	$1.759\text{e-}2$
b		$6.333\text{e-}5$	$6.333\text{e-}5$



Predicted Sandface AOF (@ 3 Mths) Simplified Analysis

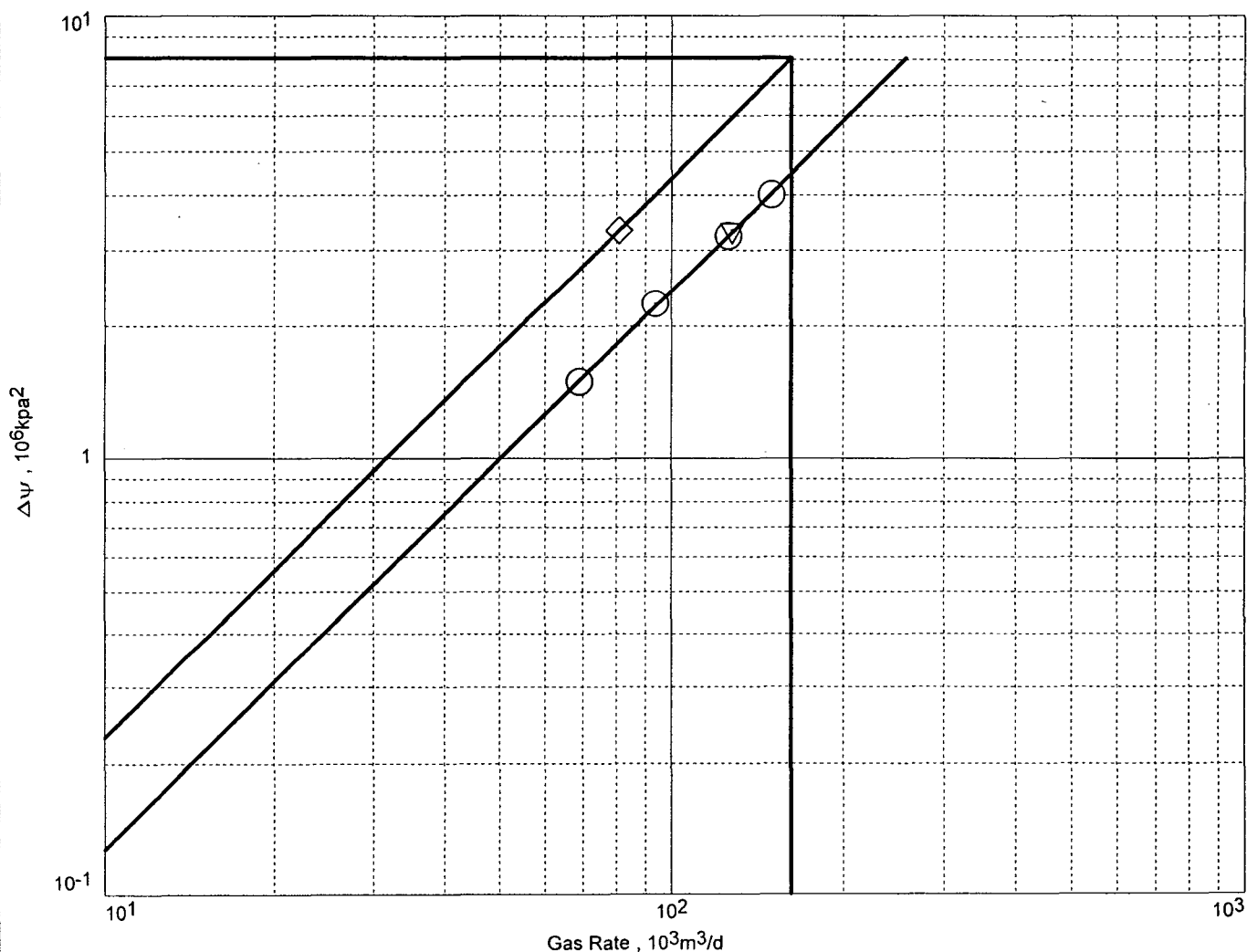
(Pseudo Pressure)

Paramount et al Cameron
300/c-50-60-10-117-30/0

Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

	Time hr	Sandface Pressure kPa	Pseudo Pressure $10^6 \text{ kPa}^2 / \mu\text{Pa.s}$	Δ Pseudo Pressure $10^6 \text{ kPa}^2 / \mu\text{Pa.s}$	Gas Rate $10^3 \text{ m}^3/\text{d}$
Shut-in		9795.00	7.788		
Flow #1	4.0000	8769.00	6.296	1.492	69.090
Shut-in	4.0000	9762.00	7.738		
Flow #2	4.0000	8168.00	5.487	2.251	93.810
Shut-in	4.0000	9774.00	7.757		
Flow #3	4.0000	7398.00	4.525	3.231	125.690
Shut-in	4.0000	9761.00	7.737		
Flow #4	4.0000	6703.00	3.731	4.006	149.470
Extended Flow	79.0000	7576.00	4.740	3.328	127.500
Stab. Shut-in		9977.00	8.068		
Stab. Flow		7576.00	4.740	3.328	81.000

	Stabilized	Extended	Transient	
AOF	162.069	255.109	257.487	$10^3 \text{ m}^3/\text{d}$
n	0.783	0.783	0.783	
C	6.316e-4	9.942e-4	1.003e-3	$10^3 \text{ m}^3/\text{d} / (\text{kPa}^2 / \mu\text{Pa.s})^n$



Predicted Sandface AOF (@ 3 Mths)

Simplified Analysis

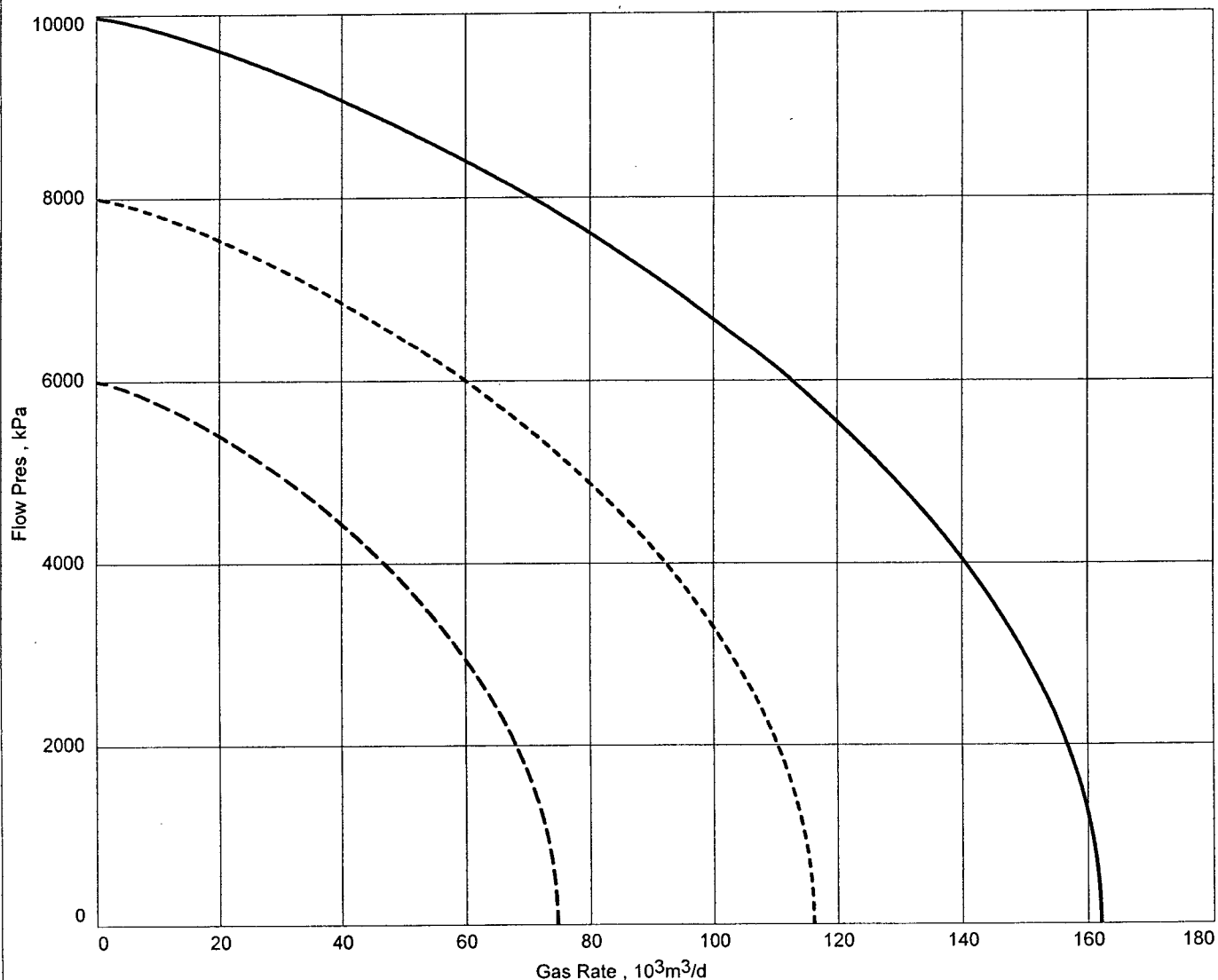
(Pseudo Pressure)

Paramount et al Cameron
300/c-50-60-10-117-30/0

Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

Stabilized Shut in Pressure = 9977.00 kPa
 Alternate Shut in Pressure 1 = 8000.00 kPa
 Alternate Shut in Pressure 2 = 6000.00 kPa

Flow Pres kPa	Gas Rate 10 ³ m ³ /d	Gas Rate 10 ³ m ³ /d	Gas Rate 10 ³ m ³ /d
0.00	162.069	116.106	74.670
990.00	160.749	114.657	73.031
1980.00	156.843	110.360	68.142
2970.00	150.275	103.095	59.770
3960.00	140.971	92.710	47.498
4950.00	128.817	78.932	30.323
5940.00	113.641	61.265	3.449
6930.00	95.116	38.505	
7920.00	72.715	5.271	
8910.00	45.082		
9900.00	5.952		
9977.00	0.000		



Predicted Wellhead AOF (@ 3 Mths)

Simplified Analysis

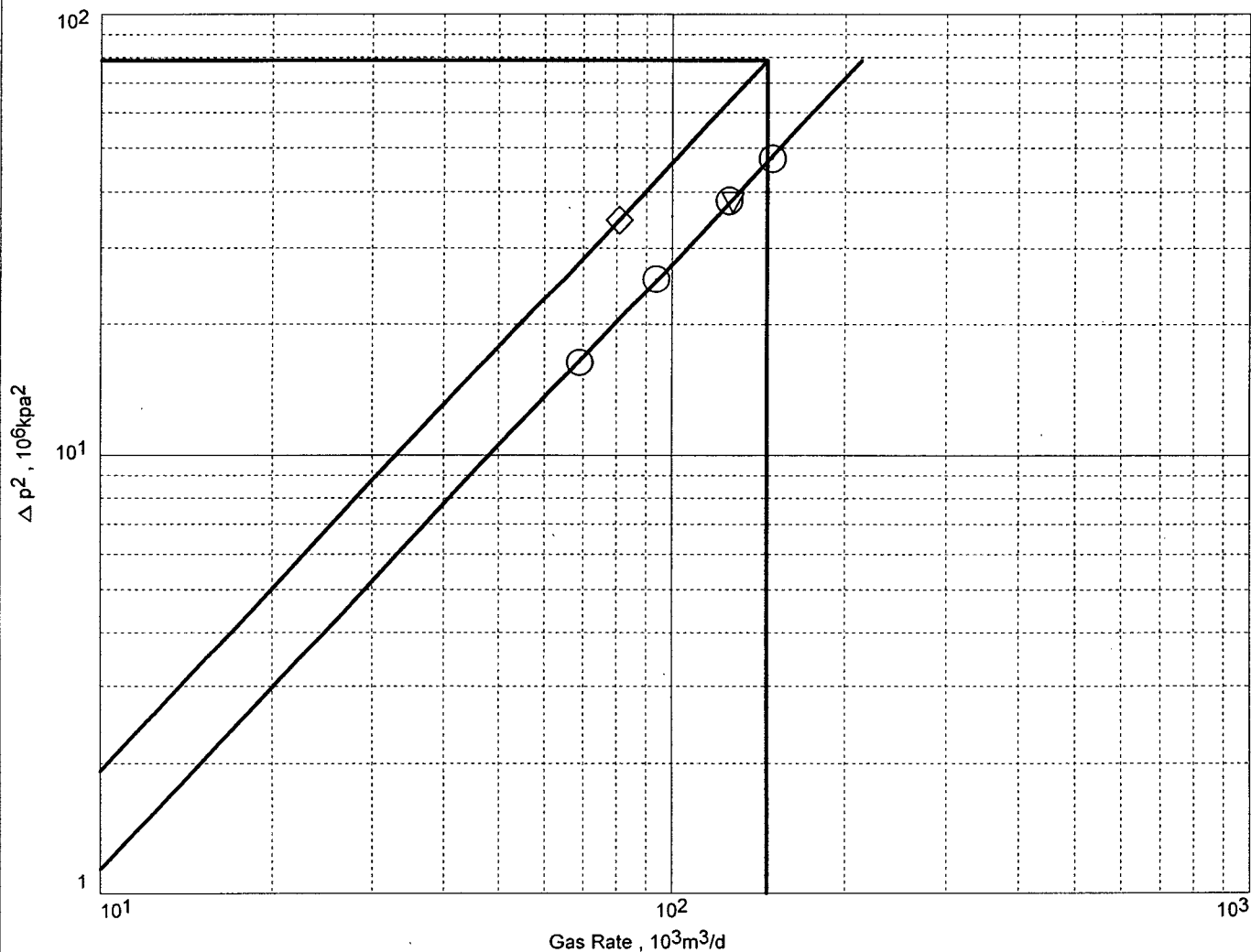
(Pressure Squared)

Paramount et al Cameron
300/c-50-60-10-117-30/0

Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

	Time hr	Wellhead Pressure kPa	Pressure Squared 10 ⁶ kPa ²	Δ Pres. Squared 10 ⁶ kPa ²	Gas Rate 10 ³ m ³ /d
Shut-in		8675.00	75.26		
Flow #1	4.0000	7675.00	58.91	16.35	69.090
Shut-in	4.0000	8675.00	75.26		
Flow #2	4.0000	7055.00	49.77	25.48	93.810
Shut-in	4.0000	8680.00	75.34		
Flow #3	4.0000	6095.00	37.15	38.19	125.690
Shut-in	4.0000	8660.00	75.00		
Flow #4	4.0000	5260.00	27.67	47.33	149.470
Extended Flow	79.0000	6328.00	40.04	38.56	127.500
Stab. Shut-in		8866.00	78.61		
Stab. Flow		6632.00	43.98	34.62	81.000

	Stabilized	Extended	Transient	
AOF	146.571	213.412	213.637	10 ³ m ³ /d
n	0.723	0.723	0.723	
C	2.853e-4	4.154e-4	4.159e-4	10 ³ m ³ /d/(kPa ²) ⁿ



Predicted Wellhead AOF (@ 3 Mths)

Simplified Analysis

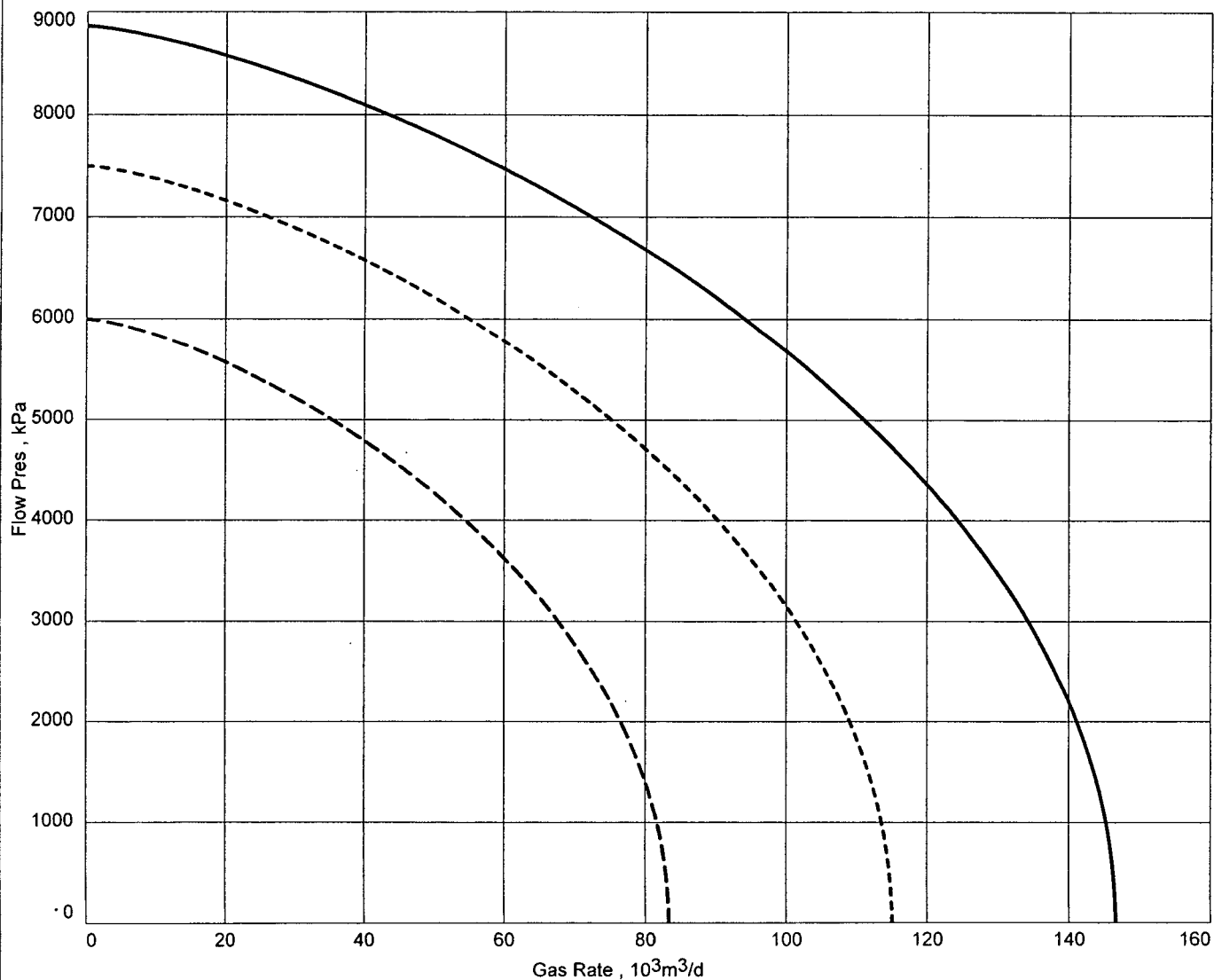
(Pressure Squared)

Paramount et al Cameron
300/c-50-60-10-117-30/0

Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

Stabilized Shut in Pressure =	8866.00	kPa
Alternate Shut in Pressure 1 =	7500.00	kPa
Alternate Shut in Pressure 2 =	6000.00	kPa

Flow Pres kPa	Gas Rate 10 ³ m ³ /d	Gas Rate 10 ³ m ³ /d	Gas Rate 10 ³ m ³ /d
0.00	146.571	115.061	83.318
880.00	145.525	113.913	82.018
1760.00	142.370	110.443	78.069
2640.00	137.051	104.563	71.310
3520.00	129.469	96.111	61.408
4400.00	119.462	84.803	47.679
5280.00	106.775	70.136	28.380
6160.00	90.987	51.083	
7040.00	71.335	24.662	
7920.00	46.093		
8800.00	6.971		
8866.00	0.000		



Vertical Wellbore

Correlation: Fanning Gas

Flow Path: Tubing

Tubing OD 73.0 mm

Tubing ID 62.0 mm

Tubing Depth 1360.2 m

Casing ID 127.3 mm

PBTD	1445.0 m
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MPP 1361.0 m

Roughness 0.01524 mm

Corr. Adj.	100.000 %
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Temp. Wellhead 5.0 °C

Temp. Sandface 55.0 °C

Gas Gravity	0.643
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N₂ 4.08 %

CO₂ 4.87 %

H₂S	0.80 %
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Sandface Calculations:

[illegible]

Wellhead Calculations:

[illegible]

F.A.S.T. VirtuWell Vertical Wellbore

Correlation: Fanning Gas

Flow Path: Tubing

Tubing OD 73.0 mm
Tubing ID 62.0 mm
Tubing Depth 1360.2 m

Casing ID 127.3 mm
PBSD 1445.0 m
MPP 1361.0 m

Roughness 0.01524 mm
Corr. Adj. 100.000 %

Temp. Wellhead 20.0 °C
Temp. Sandface 55.0 °C

Gas Gravity 0.643
N₂ 4.08 %
CO₂ 4.87 %
H₂S 0.80 %

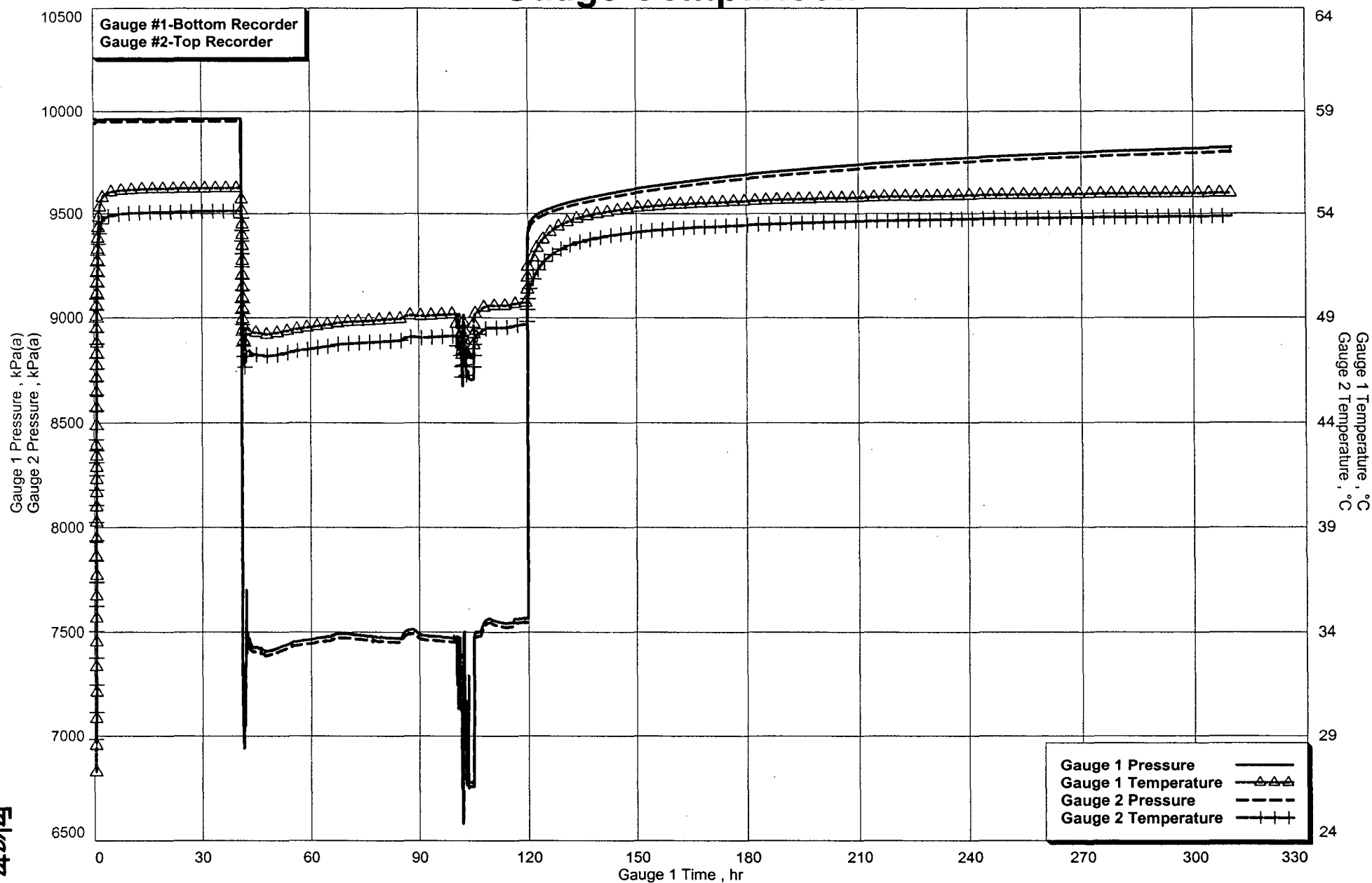
Sandface Calculations:

Wellhead Pressure	Gas Rate	Sandface Pressure
kPa(a)	10 ³ m ³ /d	kPa(a)

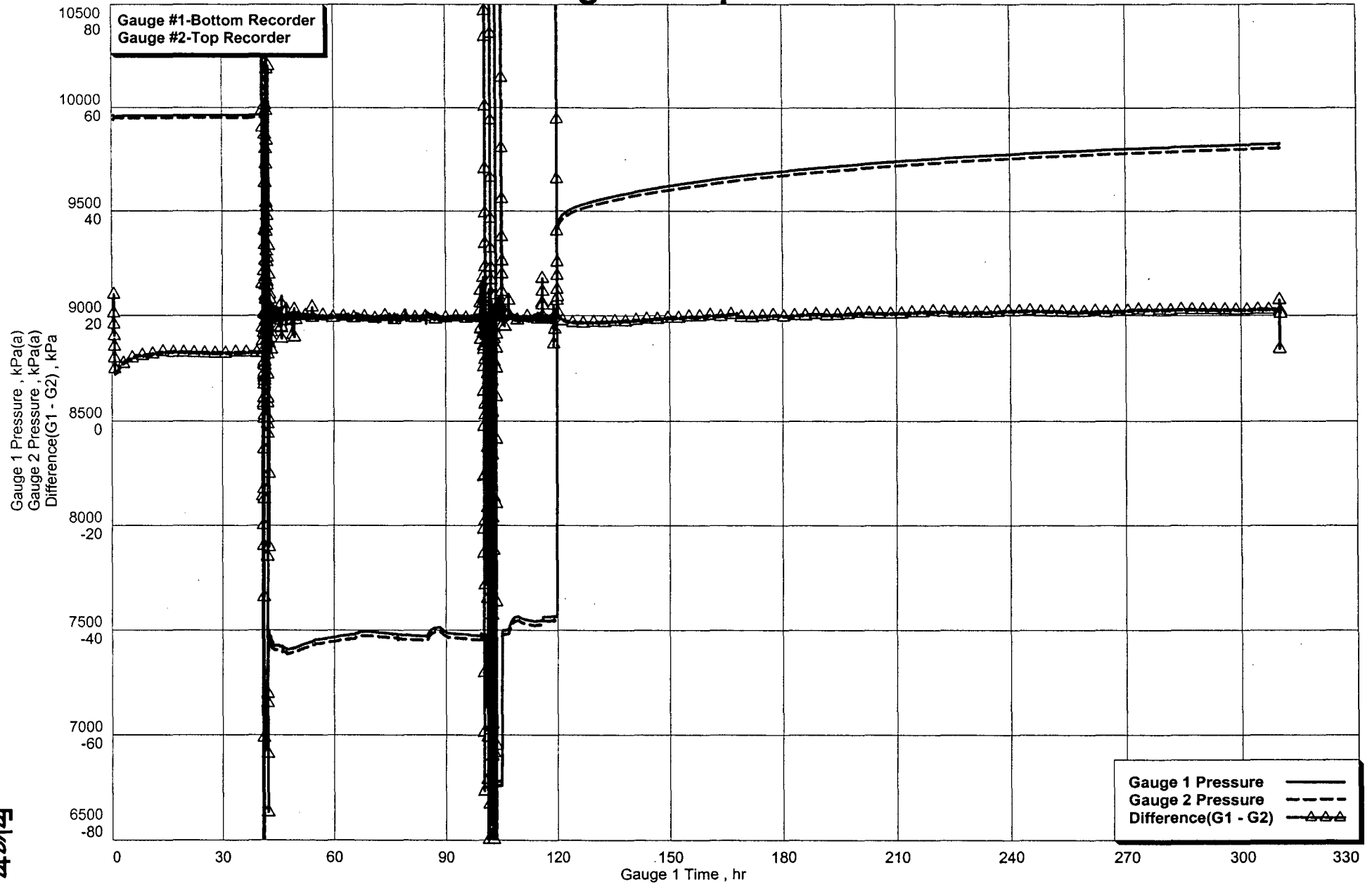
Wellhead Calculations:

Sandface Pressure	Gas Rate	Wellhead Pressure
kPa(a)	10 ³ m ³ /d	kPa(a)
7576	81.0	6632

Gauge Comparison

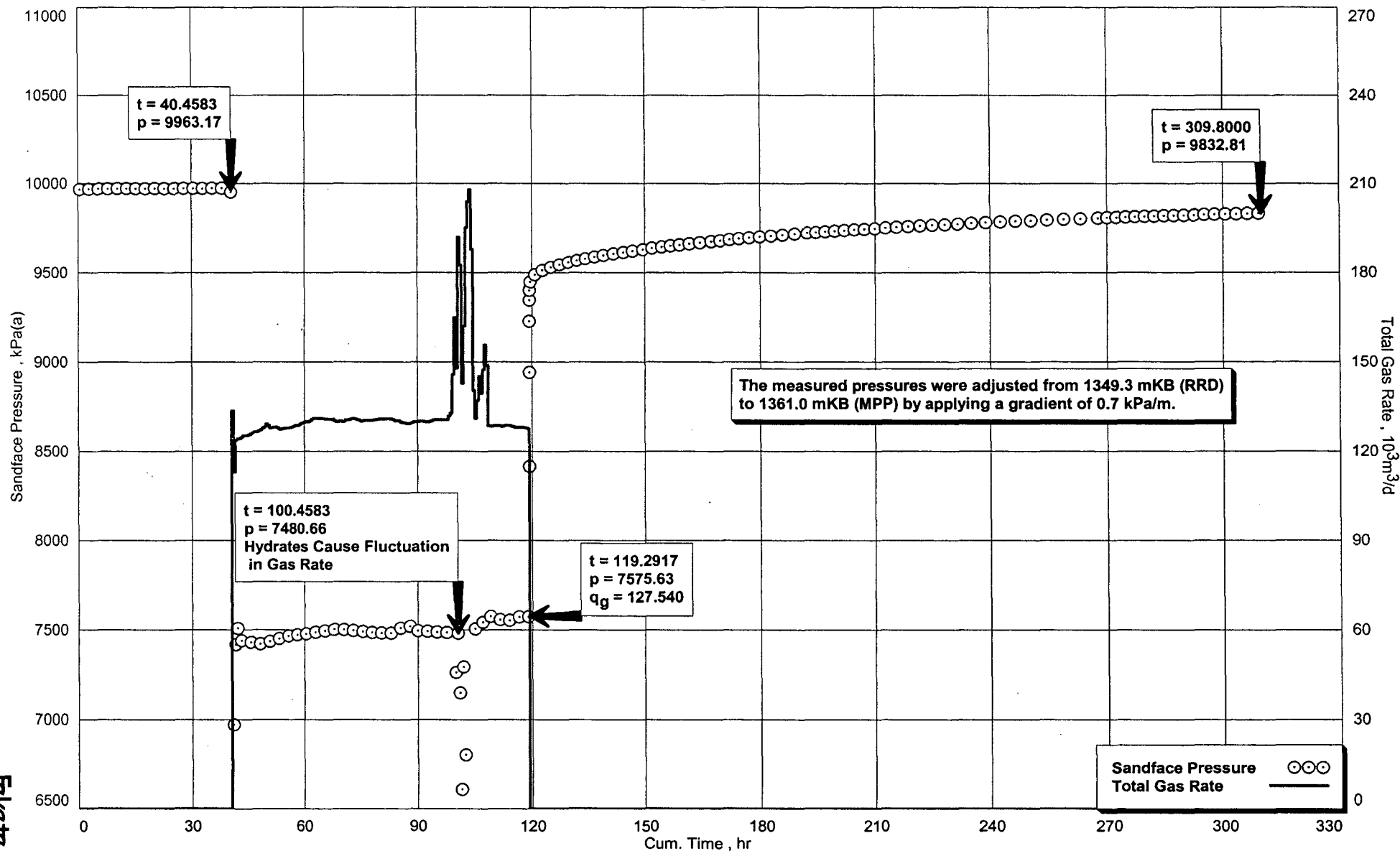


Gauge Comparison



Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

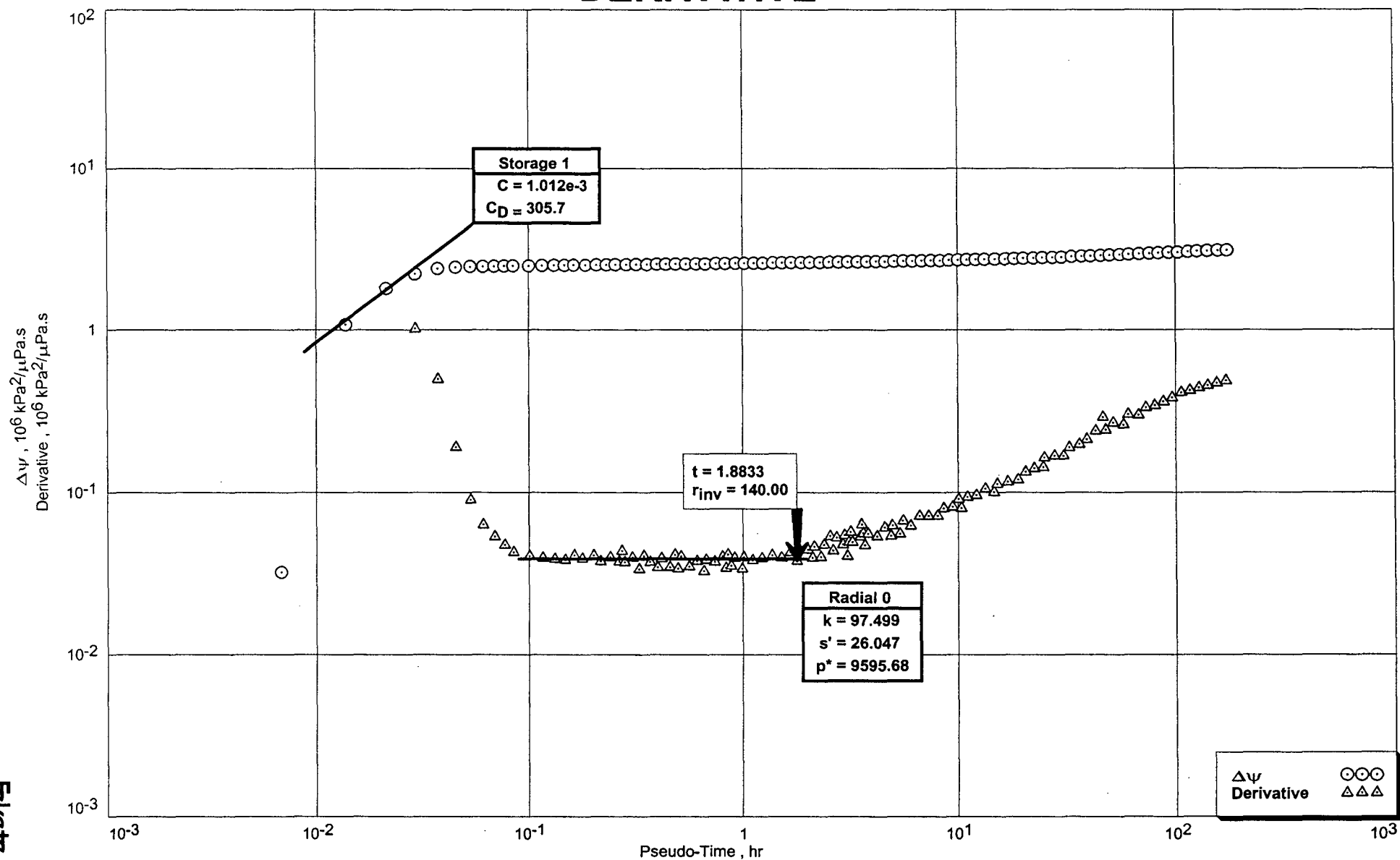
STRIP CHART



Fast
 Associates Inc.

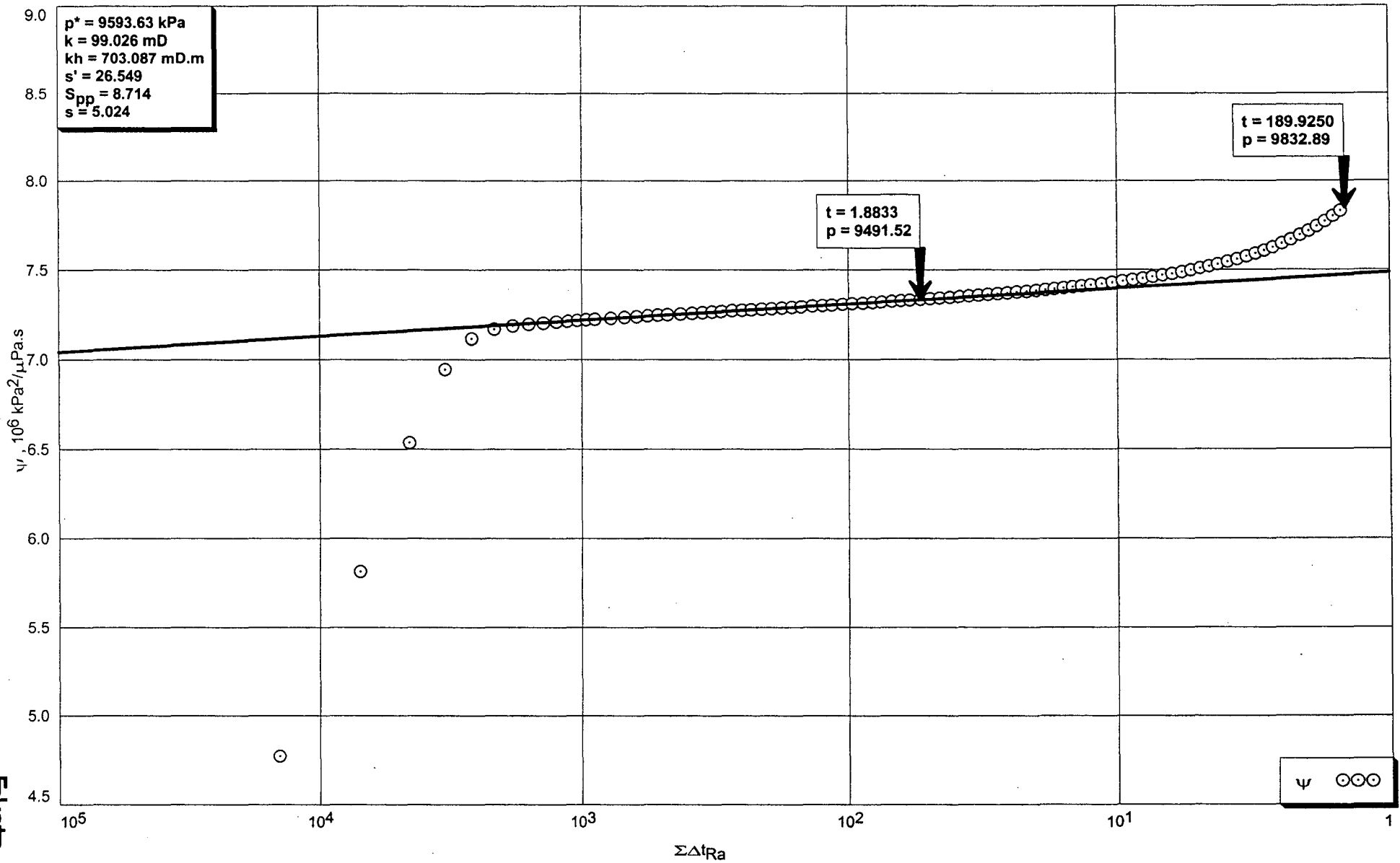
Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

DERIVATIVE



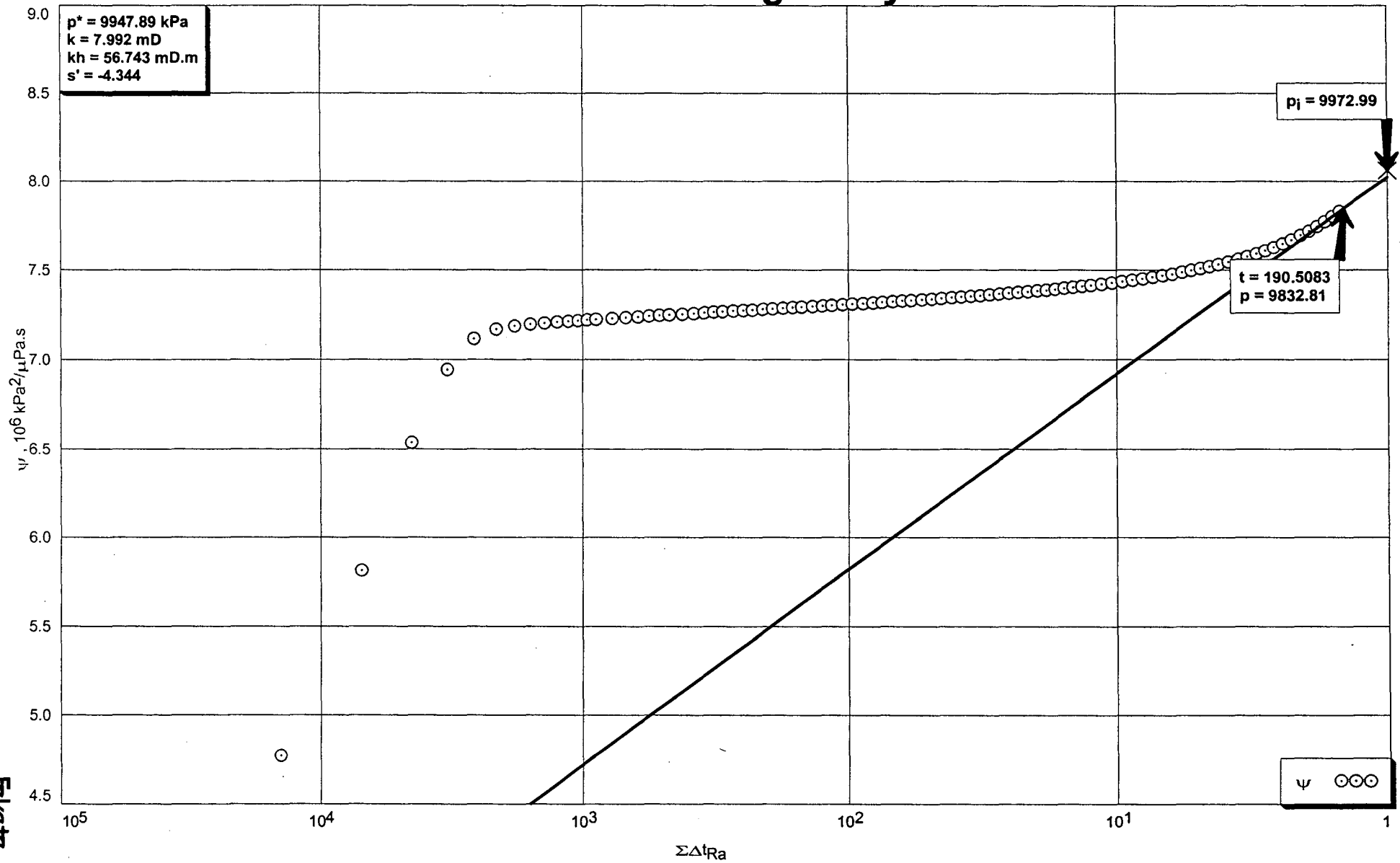
Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

RADIAL ANALYSIS



Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

Late-Time Semilog Analysis



Fast
 Associates Inc.

Fast

Paramount et al Cameron
300/c-50-60-10-117-30/0
Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
1	0.5000	0.5000	9966.57	
2	1.0000	1.0000	9967.13	
3	1.5000	1.5000	9967.56	
4	2.0000	2.0000	9967.86	
5	2.5000	2.5000	9968.14	
6	3.0000	3.0000	9968.50	
7	3.5000	3.5000	9968.42	
8	4.0000	4.0000	9968.96	
9	4.5000	4.5000	9968.81	
10	5.0000	5.0000	9968.88	
11	5.5000	5.5000	9969.23	
12	6.0000	6.0000	9969.47	
13	6.5000	6.5000	9969.55	
14	7.0000	7.0000	9969.71	
15	7.5000	7.5000	9969.67	
16	8.0000	8.0000	9969.79	
17	8.5000	8.5000	9969.79	
18	9.0000	9.0000	9969.94	
19	9.5000	9.5000	9970.04	
20	10.0000	10.0000	9970.22	
21	10.5000	10.5000	9970.14	
22	11.0000	11.0000	9970.28	
23	11.5000	11.5000	9970.39	
24	12.0000	12.0000	9970.53	
25	12.5000	12.5000	9970.69	
26	13.0000	13.0000	9970.75	
27	13.5000	13.5000	9970.82	
28	14.0000	14.0000	9970.96	
29	14.5000	14.5000	9971.06	
30	15.0000	15.0000	9970.94	
31	15.5000	15.5000	9971.04	
32	16.0000	16.0000	9971.10	
33	16.5000	16.5000	9971.13	
34	17.0000	17.0000	9971.21	
35	17.5000	17.5000	9971.25	
36	18.0000	18.0000	9971.25	
37	18.5000	18.5000	9971.33	
38	19.0000	19.0000	9971.35	
39	19.5000	19.5000	9971.39	
40	20.0000	20.0000	9971.48	
41	20.5000	20.5000	9971.48	
42	21.0000	21.0000	9971.56	
43	21.5000	21.5000	9971.50	
44	22.0000	22.0000	9971.60	
45	22.5000	22.5000	9971.64	
46	23.0000	23.0000	9971.60	
47	23.5000	23.5000	9971.66	
48	24.0000	24.0000	9971.75	
49	24.5000	24.5000	9971.73	
50	25.0000	25.0000	9971.74	
51	25.5000	25.5000	9971.91	
52	26.0000	26.0000	9971.81	
53	26.5000	26.5000	9971.89	
54	27.0000	27.0000	9971.95	
55	27.5000	27.5000	9971.95	
56	28.0000	28.0000	9971.93	
57	28.5000	28.5000	9971.95	
58	29.0000	29.0000	9972.10	
59	29.5000	29.5000	9972.10	
60	30.0000	30.0000	9972.22	
61	30.5000	30.5000	9972.10	
62	31.0000	31.0000	9972.20	
63	31.5083	31.5083	9972.16	
64	32.0083	32.0083	9972.26	
65	32.5083	32.5083	9972.31	
66	33.0083	33.0083	9972.41	

Paramount et al Cameron
300/c-50-60-10-117-30/0
Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
67	33.5083	33.5083	9972.39	
68	34.0083	34.0083	9972.41	
69	34.5083	34.5083	9972.49	
70	35.0083	35.0083	9972.53	
71	35.5083	35.5083	9972.61	
72	36.0083	36.0083	9972.59	
73	36.5083	36.5083	9972.57	
74	37.0083	37.0083	9972.70	
75	37.5083	37.5083	9972.76	
76	38.0083	38.0083	9972.68	
77	38.5083	38.5083	9972.74	
78	39.0083	39.0083	9972.82	
79	39.5083	39.5083	9972.84	
80	40.0083	40.0083	9972.93	
81	40.4500	40.4500	9950.82	
82	40.4583	40.4583	9963.17	0.000
83	40.9583	40.9583	6970.15	133.676
84	41.4583	41.4583	7416.30	112.988
85	41.9583	41.9583	7507.35	123.831
86	42.4583	42.4583	7472.86	124.253
87	42.9583	42.9583	7438.88	124.311
88	43.4583	43.4583	7433.21	124.802
89	43.9583	43.9583	7432.40	125.322
90	44.4583	44.4583	7434.18	
91	44.9583	44.9583	7429.10	125.394
92	45.4583	45.4583	7430.19	125.619
93	45.9583	45.9583	7423.03	125.916
94	46.4583	46.4583	7419.05	126.304
95	46.9583	46.9583	7416.33	126.486
96	47.4583	47.4583	7417.01	126.568
97	47.9583	47.9583	7420.13	126.774
98	48.4583	48.4583	7420.95	127.178
99	48.9583	48.9583	7424.25	127.717
100	49.4583	49.4583	7426.37	128.199
101	49.9583	49.9583	7429.14	129.239
102	50.4583	50.4583	7434.62	128.757
103	50.9583	50.9583	7438.46	127.789
104	51.4583	51.4583	7441.64	127.943
105	51.9583	51.9583	7444.15	128.023
106	52.4583	52.4583	7448.09	128.196
107	52.9583	52.9583	7450.34	127.955
108	53.4583	53.4583	7452.47	127.435
109	53.9583	53.9583	7456.81	127.507
110	54.4583	54.4583	7461.90	127.661
111	54.9583	54.9583	7463.52	127.741
112	55.4583	55.4583	7464.27	127.914
113	55.9583	55.9583	7464.52	
114	56.4583	56.4583	7466.36	127.995
115	56.9583	56.9583	7467.44	128.168
116	57.4583	57.4583	7470.17	128.400
117	57.9583	57.9583	7471.27	128.829
118	58.4583	58.4583	7471.31	128.675
119	58.9583	58.9583	7472.52	128.916
120	59.4583	59.4583	7473.29	129.436
121	59.9583	59.9583	7475.19	129.552
122	60.4583	60.4583	7476.38	129.847
123	60.9583	60.9583	7479.75	129.943
124	61.4583	61.4583	7481.41	
125	61.9583	61.9583	7482.03	130.184
126	62.4583	62.4583	7482.46	130.829
127	62.9583	62.9583	7484.73	131.098
128	63.4583	63.4583	7485.65	
129	63.9583	63.9583	7486.40	
130	64.4583	64.4583	7486.36	
131	64.9583	64.9583	7487.55	
132	65.4583	65.4583	7493.35	131.018

Paramount et al Cameron
300/c-50-60-10-117-30/0
Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
133	65.9583	65.9583	7494.35	130.845
134	66.4583	66.4583	7499.78	
135	66.9583	66.9583	7499.74	
136	67.4583	67.4583	7500.63	
137	67.9583	67.9583	7500.80	130.729
138	68.4583	68.4583	7500.42	130.309
139	68.9583	68.9583	7500.68	129.943
140	69.4583	69.4583	7499.98	130.023
141	69.9583	69.9583	7500.00	130.197
142	70.4583	70.4583	7499.13	130.072
143	70.9583	70.9583	7498.48	130.052
144	71.4583	71.4583	7494.47	130.591
145	71.9583	71.9583	7495.71	
146	72.4583	72.4583	7494.99	130.662
147	72.9583	72.9583	7494.00	130.897
148	73.4583	73.4583	7493.72	131.070
149	73.9583	73.9583	7493.13	130.954
150	74.4583	74.4583	7490.85	130.704
151	74.9583	74.9583	7490.07	130.534
152	75.4583	75.4583	7489.47	130.168
153	75.9583	75.9583	7490.40	130.249
154	76.4583	76.4583	7482.04	130.422
155	76.9583	76.9583	7487.84	
156	77.4583	77.4583	7486.42	
157	77.9583	77.9583	7484.53	
158	78.4583	78.4583	7482.67	
159	78.9583	78.9583	7485.51	130.502
160	79.4583	79.4583	7483.24	130.675
161	79.9583	79.9583	7481.96	130.756
162	80.4583	80.4583	7481.16	130.929
163	80.9583	80.9583	7480.97	
164	81.4583	81.4583	7480.06	
165	81.9583	81.9583	7480.70	
166	82.4583	82.4583	7480.79	
167	82.9583	82.9583	7479.68	
168	83.4583	83.4583	7479.67	
169	83.9583	83.9583	7478.95	130.688
170	84.4583	84.4583	7482.75	130.213
171	84.9583	84.9583	7497.96	130.345
172	85.4583	85.4583	7508.31	130.270
173	85.9583	85.9583	7514.66	129.863
174	86.4583	86.4583	7517.66	129.689
175	86.9583	86.9583	7519.00	129.609
176	87.4583	87.4583	7520.37	129.436
177	87.9583	87.9583	7518.80	
178	88.4583	88.4583	7511.74	
179	88.9583	88.9583	7503.57	129.596
180	89.4583	89.4583	7497.68	129.943
181	89.9583	89.9583	7493.02	
182	90.4583	90.4583	7493.56	130.014
183	90.9583	90.9583	7492.45	130.168
184	91.4583	91.4583	7490.97	
185	91.9583	91.9583	7490.06	130.097
186	92.4583	92.4583	7489.90	129.943
187	92.9583	92.9583	7489.96	
188	93.4583	93.4583	7489.63	130.014
189	93.9583	93.9583	7487.69	130.249
190	94.4583	94.4583	7488.42	130.502
191	94.9583	94.9583	7487.13	130.675
192	95.4583	95.4583	7486.38	
193	95.9583	95.9583	7485.34	
194	96.4583	96.4583	7482.67	
195	96.9583	96.9583	7483.34	
196	97.4583	97.4583	7483.37	
197	97.9583	97.9583	7481.98	
198	98.4583	98.4583	7480.73	131.871

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Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
199	98.9583	98.9583	7487.86	132.818
200	99.4583	99.4583	7479.48	145.693
201	99.9583	99.9583	7260.68	164.798
202	100.4583	100.4583	7480.66	147.871
203	100.9583	100.9583	7146.61	191.957
204	101.4583	101.4583	6607.95	182.668
205	101.9583	101.9583	7291.76	142.783
206	102.4583	102.4583	6801.29	162.034
207	102.9583	102.9583	6781.99	195.200
208	103.4583	103.4583	6785.96	203.859
209	103.9583	103.9583	6785.18	207.959
210	104.4583	104.4583	6785.56	187.912
211	104.9583	104.9583	7505.36	140.296
212	105.4583	105.4583	7506.02	131.106
213	105.9583	105.9583	7509.26	136.956
214	106.4583	106.4583	7514.00	145.063
215	106.9583	106.9583	7540.65	139.442
216	107.4583	107.4583	7558.27	147.244
217	107.9583	107.9583	7566.79	155.625
218	108.4583	108.4583	7570.13	148.775
219	108.9583	108.9583	7572.82	128.595
220	109.4583	109.4583	7566.66	128.422
221	109.9583	109.9583	7561.91	128.502
222	110.4583	110.4583	7559.52	128.675
223	110.9583	110.9583	7556.36	
224	111.4583	111.4583	7555.32	
225	111.9583	111.9583	7554.30	128.550
226	112.4583	112.4583	7551.22	128.361
227	112.9583	112.9583	7550.26	128.614
228	113.4583	113.4583	7550.27	128.788
229	113.9583	113.9583	7551.16	
230	114.4583	114.4583	7551.79	128.663
231	114.9583	114.9583	7552.54	128.393
232	115.4583	115.4583	7569.74	128.277
233	115.9583	115.9583	7571.47	128.027
234	116.4583	116.4583	7570.85	
235	116.9583	116.9583	7571.41	
236	117.4583	117.4583	7572.41	
237	117.9583	117.9583	7574.21	
238	118.4583	118.4583	7574.19	127.947
239	118.9583	118.9583	7571.60	127.702
240	119.2833	119.2833	7575.16	127.540
241	119.2917	119.2917	7575.63	127.540
242	119.3000	119.3000	7602.08	0.000
243	119.3083	119.3083	8414.91	
244	119.3167	119.3167	8939.88	
245	119.3250	119.3250	9226.52	
246	119.3333	119.3333	9344.20	
247	119.3417	119.3417	9379.65	
248	119.3500	119.3500	9391.73	
249	119.3583	119.3583	9398.40	
250	119.3667	119.3667	9403.10	
251	119.3750	119.3750	9406.91	
252	119.3833	119.3833	9409.84	
253	119.3917	119.3917	9412.41	
254	119.4000	119.4000	9414.83	
255	119.4083	119.4083	9416.80	
256	119.4167	119.4167	9418.73	
257	119.4250	119.4250	9420.50	
258	119.4333	119.4333	9421.96	
259	119.4417	119.4417	9423.69	
260	119.4500	119.4500	9425.23	
261	119.4583	119.4583	9426.50	
262	119.4667	119.4667	9427.98	
263	119.4750	119.4750	9429.21	
264	119.4833	119.4833	9430.43	

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Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
265	119.4917	119.4917	9431.57	
266	119.5000	119.5000	9432.73	
267	119.5083	119.5083	9433.82	
268	119.5167	119.5167	9434.91	
269	119.5250	119.5250	9435.78	
270	119.5333	119.5333	9436.77	
271	119.5417	119.5417	9437.54	
272	119.5500	119.5500	9438.63	
273	119.5583	119.5583	9439.31	
274	119.5667	119.5667	9440.24	
275	119.5750	119.5750	9440.91	
276	119.5833	119.5833	9441.76	
277	119.5917	119.5917	9442.63	
278	119.6000	119.6000	9443.18	
279	119.6083	119.6083	9444.01	
280	119.6167	119.6167	9444.56	
281	119.6250	119.6250	9445.41	
282	119.6333	119.6333	9446.04	
283	119.6417	119.6417	9446.63	
284	119.6500	119.6500	9447.14	
285	119.6583	119.6583	9447.83	
286	119.6667	119.6667	9448.41	
287	119.6750	119.6750	9448.98	
288	119.6833	119.6833	9449.53	
289	119.6917	119.6917	9450.07	
290	119.7000	119.7000	9450.66	
291	119.7083	119.7083	9451.18	
292	119.7167	119.7167	9451.73	
293	119.7250	119.7250	9452.11	
294	119.7333	119.7333	9452.61	
295	119.7417	119.7417	9453.13	
296	119.7500	119.7500	9453.60	
297	119.7583	119.7583	9454.10	
298	119.7667	119.7667	9454.60	
299	119.7750	119.7750	9455.00	
300	119.7833	119.7833	9455.42	
301	119.7917	119.7917	9455.82	
302	119.8000	119.8000	9456.25	
303	119.8083	119.8083	9456.75	
304	119.8167	119.8167	9457.15	
305	119.8250	119.8250	9457.49	
306	119.8333	119.8333	9457.93	
307	119.8500	119.8500	9458.76	
308	119.8667	119.8667	9459.59	
309	119.8833	119.8833	9460.26	
310	119.9000	119.9000	9460.94	
311	119.9167	119.9167	9461.61	
312	119.9333	119.9333	9462.34	
313	119.9500	119.9500	9462.96	
314	119.9667	119.9667	9463.69	
315	119.9833	119.9833	9464.23	
316	120.0000	120.0000	9464.77	
317	120.0167	120.0167	9465.47	
318	120.0333	120.0333	9466.07	
319	120.0500	120.0500	9466.71	
320	120.0667	120.0667	9467.27	
321	120.0833	120.0833	9467.81	
322	120.1000	120.1000	9468.24	
323	120.1167	120.1167	9468.86	
324	120.1333	120.1333	9469.30	
325	120.1500	120.1500	9469.95	
326	120.1667	120.1667	9470.35	
327	120.1833	120.1833	9470.84	
328	120.2000	120.2000	9471.41	
329	120.2167	120.2167	9471.90	
330	120.2333	120.2333	9472.28	

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Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
331	120.2500	120.2500	9472.73	
332	120.2667	120.2667	9473.22	
333	120.2833	120.2833	9473.69	
334	120.3000	120.3000	9474.10	
335	120.3167	120.3167	9474.65	
336	120.3333	120.3333	9474.94	
337	120.3500	120.3500	9475.39	
338	120.3667	120.3667	9475.80	
339	120.3833	120.3833	9476.25	
340	120.4083	120.4083	9476.86	
341	120.4333	120.4333	9477.49	
342	120.4583	120.4583	9478.02	
343	120.4833	120.4833	9478.61	
344	120.5083	120.5083	9479.20	
345	120.5333	120.5333	9479.76	
346	120.5583	120.5583	9480.20	
347	120.5833	120.5833	9480.79	
348	120.6083	120.6083	9481.24	
349	120.6333	120.6333	9481.85	
350	120.6583	120.6583	9482.32	
351	120.6833	120.6833	9482.89	
352	120.7083	120.7083	9483.30	
353	120.7333	120.7333	9483.82	
354	120.7583	120.7583	9484.27	
355	120.7833	120.7833	9484.83	
356	120.8083	120.8083	9485.28	
357	120.8333	120.8333	9485.67	
358	120.8583	120.8583	9486.20	
359	120.8833	120.8833	9486.56	
360	120.9083	120.9083	9487.05	
361	120.9417	120.9417	9487.65	
362	120.9750	120.9750	9488.24	
363	121.0083	121.0083	9488.77	
364	121.0417	121.0417	9489.31	
365	121.0750	121.0750	9489.88	
366	121.1083	121.1083	9490.42	
367	121.1417	121.1417	9491.03	
368	121.1750	121.1750	9491.52	
369	121.2083	121.2083	9491.94	
370	121.2417	121.2417	9492.59	
371	121.2750	121.2750	9492.99	
372	121.3083	121.3083	9493.58	
373	121.3417	121.3417	9494.03	
374	121.3750	121.3750	9494.55	
375	121.4083	121.4083	9495.06	
376	121.4417	121.4417	9495.50	
377	121.4750	121.4750	9495.99	
378	121.5167	121.5167	9496.55	
379	121.5583	121.5583	9497.00	
380	121.6000	121.6000	9497.71	
381	121.6417	121.6417	9498.27	
382	121.6833	121.6833	9498.88	
383	121.7250	121.7250	9499.34	
384	121.7667	121.7667	9499.81	
385	121.8083	121.8083	9500.34	
386	121.8500	121.8500	9500.88	
387	121.8917	121.8917	9501.39	
388	121.9333	121.9333	9501.85	
389	121.9750	121.9750	9502.40	
390	122.0167	122.0167	9502.98	
391	122.0667	122.0667	9503.55	
392	122.1167	122.1167	9504.05	
393	122.1667	122.1667	9504.68	
394	122.2167	122.2167	9505.29	
395	122.2667	122.2667	9505.81	
396	122.3167	122.3167	9506.40	

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Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
397	122.3667	122.3667	9506.92	
398	122.4167	122.4167	9507.45	
399	122.4667	122.4667	9508.10	
400	122.5167	122.5167	9508.53	
401	122.5667	122.5667	9508.95	
402	122.6250	122.6250	9509.64	
403	122.6833	122.6833	9510.30	
404	122.7417	122.7417	9510.79	
405	122.8000	122.8000	9511.46	
406	122.8583	122.8583	9511.94	
407	122.9167	122.9167	9512.61	
408	122.9750	122.9750	9513.04	
409	123.0333	123.0333	9513.75	
410	123.0917	123.0917	9514.37	
411	123.1583	123.1583	9514.98	
412	123.2250	123.2250	9515.46	
413	123.2917	123.2917	9516.02	
414	123.3583	123.3583	9516.69	
415	123.4250	123.4250	9517.28	
416	123.4917	123.4917	9517.93	
417	123.5583	123.5583	9518.46	
418	123.6250	123.6250	9519.11	
419	123.7000	123.7000	9519.60	
420	123.7750	123.7750	9520.32	
421	123.8500	123.8500	9520.93	
422	123.9250	123.9250	9521.56	
423	124.0000	124.0000	9522.05	
424	124.0750	124.0750	9522.68	
425	124.1500	124.1500	9523.31	
426	124.2333	124.2333	9524.02	
427	124.3167	124.3167	9524.66	
428	124.4000	124.4000	9525.31	
429	124.4833	124.4833	9525.82	
430	124.5667	124.5667	9526.63	
431	124.6500	124.6500	9527.18	
432	124.7333	124.7333	9527.81	
433	124.8250	124.8250	9528.50	
434	124.9167	124.9167	9529.10	
435	125.0083	125.0083	9529.69	
436	125.1000	125.1000	9530.36	
437	125.1917	125.1917	9531.07	
438	125.2833	125.2833	9531.83	
439	125.3833	125.3833	9532.38	
440	125.4833	125.4833	9533.15	
441	125.5833	125.5833	9533.73	
442	125.6833	125.6833	9534.44	
443	125.7833	125.7833	9535.15	
444	125.8917	125.8917	9535.83	
445	126.0000	126.0000	9536.55	
446	126.1083	126.1083	9537.12	
447	126.2167	126.2167	9537.89	
448	126.3250	126.3250	9538.57	
449	126.4417	126.4417	9539.25	
450	126.5583	126.5583	9540.02	
451	126.6750	126.6750	9540.78	
452	126.7917	126.7917	9541.44	
453	126.9083	126.9083	9542.19	
454	127.0333	127.0333	9542.90	
455	127.1583	127.1583	9543.58	
456	127.2833	127.2833	9544.36	
457	127.4083	127.4083	9545.10	
458	127.5417	127.5417	9545.82	
459	127.6750	127.6750	9546.64	
460	127.8083	127.8083	9547.28	
461	127.9417	127.9417	9548.04	
462	128.0833	128.0833	9548.82	

Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
463	128.2250	128.2250	9549.60	
464	128.3667	128.3667	9550.43	
465	128.5083	128.5083	9551.18	
466	128.6583	128.6583	9552.00	
467	128.8083	128.8083	9552.74	
468	128.9583	128.9583	9553.48	
469	129.1083	129.1083	9554.28	
470	129.2667	129.2667	9555.09	
471	129.4250	129.4250	9555.91	
472	129.5833	129.5833	9556.57	
473	129.7500	129.7500	9557.51	
474	129.9167	129.9167	9558.38	
475	130.0833	130.0833	9559.24	
476	130.2583	130.2583	9559.96	
477	130.4333	130.4333	9560.83	
478	130.6083	130.6083	9561.59	
479	130.7917	130.7917	9562.54	
480	130.9750	130.9750	9563.44	
481	131.1583	131.1583	9564.25	
482	131.3500	131.3500	9565.14	
483	131.5417	131.5417	9566.12	
484	131.7333	131.7333	9566.93	
485	131.9333	131.9333	9567.82	
486	132.1333	132.1333	9568.79	
487	132.3333	132.3333	9569.72	
488	132.5417	132.5417	9570.55	
489	132.7500	132.7500	9571.48	
490	132.9583	132.9583	9572.30	
491	133.1750	133.1750	9573.25	
492	133.3917	133.3917	9574.29	
493	133.6167	133.6167	9575.22	
494	133.8417	133.8417	9576.19	
495	134.0750	134.0750	9577.08	
496	134.3083	134.3083	9578.11	
497	134.5417	134.5417	9578.99	
498	134.7833	134.7833	9579.98	
499	135.0250	135.0250	9581.07	
500	135.2750	135.2750	9582.07	
501	135.5250	135.5250	9583.08	
502	135.7833	135.7833	9584.06	
503	136.0417	136.0417	9585.01	
504	136.3083	136.3083	9586.15	
505	136.5750	136.5750	9587.13	
506	136.8500	136.8500	9588.18	
507	137.1250	137.1250	9589.26	
508	137.4083	137.4083	9590.32	
509	137.6917	137.6917	9591.36	
510	137.9833	137.9833	9592.54	
511	138.2750	138.2750	9593.57	
512	138.5750	138.5750	9594.68	
513	138.8750	138.8750	9595.70	
514	139.1833	139.1833	9596.82	
515	139.4917	139.4917	9597.98	
516	139.8083	139.8083	9599.06	
517	140.1333	140.1333	9600.22	
518	140.4583	140.4583	9601.35	
519	140.7917	140.7917	9602.57	
520	141.1250	141.1250	9603.69	
521	141.4667	141.4667	9604.76	
522	141.8167	141.8167	9606.04	
523	142.1667	142.1667	9607.17	
524	142.5250	142.5250	9608.43	
525	142.8917	142.8917	9609.60	
526	143.2583	143.2583	9610.81	
527	143.6333	143.6333	9612.10	
528	144.0167	144.0167	9613.32	

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Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
529	144.4000	144.4000	9614.64	
530	144.7917	144.7917	9615.66	
531	145.1917	145.1917	9617.05	
532	145.6000	145.6000	9618.42	
533	146.0083	146.0083	9619.59	
534	146.4250	146.4250	9620.93	
535	146.8500	146.8500	9622.22	
536	147.2833	147.2833	9623.47	
537	147.7167	147.7167	9624.78	
538	148.1583	148.1583	9626.16	
539	148.6083	148.6083	9627.51	
540	149.0667	149.0667	9628.83	
541	149.5333	149.5333	9630.20	
542	150.0083	150.0083	9631.68	
543	150.4917	150.4917	9632.97	
544	150.9750	150.9750	9634.25	
545	151.4667	151.4667	9635.63	
546	151.9667	151.9667	9637.05	
547	152.4750	152.4750	9638.48	
548	152.9917	152.9917	9639.88	
549	153.5167	153.5167	9641.42	
550	154.0500	154.0500	9642.82	
551	154.5917	154.5917	9644.30	
552	155.1417	155.1417	9645.78	
553	155.7000	155.7000	9647.11	
554	156.2667	156.2667	9648.67	
555	156.8417	156.8417	9650.03	
556	157.4250	157.4250	9651.65	
557	158.0167	158.0167	9653.08	
558	158.6167	158.6167	9654.64	
559	159.2250	159.2250	9656.14	
560	159.8500	159.8500	9657.67	
561	160.4833	160.4833	9659.23	
562	161.1250	161.1250	9660.76	
563	161.7750	161.7750	9662.31	
564	162.4333	162.4333	9663.84	
565	163.1083	163.1083	9665.35	
566	163.7917	163.7917	9667.04	
567	164.4833	164.4833	9668.71	
568	165.1833	165.1833	9670.22	
569	165.9000	165.9000	9671.86	
570	166.6250	166.6250	9673.55	
571	167.3583	167.3583	9675.05	
572	168.1167	168.1167	9677.53	
573	168.8833	168.8833	9679.12	
574	169.6667	169.6667	9680.84	
575	170.4500	170.4500	9682.33	
576	171.2500	171.2500	9684.00	
577	172.0667	172.0667	9685.62	
578	172.8833	172.8833	9687.39	
579	173.7167	173.7167	9689.11	
580	174.5667	174.5667	9690.86	
581	175.4333	175.4333	9692.66	
582	176.3167	176.3167	9694.34	
583	177.2000	177.2000	9696.11	
584	178.1000	178.1000	9697.81	
585	179.0167	179.0167	9699.41	
586	179.9500	179.9500	9701.08	
587	180.9000	180.9000	9702.76	
588	181.8667	181.8667	9704.61	
589	182.8500	182.8500	9706.49	
590	183.8333	183.8333	9708.19	
591	184.8333	184.8333	9709.96	
592	185.8500	185.8500	9711.85	
593	186.8833	186.8833	9713.61	
594	187.9333	187.9333	9715.39	

Paramount et al Cameron
300/c-50-60-10-117-30/0
Sulphur Point: 1360.0-1362.0 mKB
March 14-27, 2001

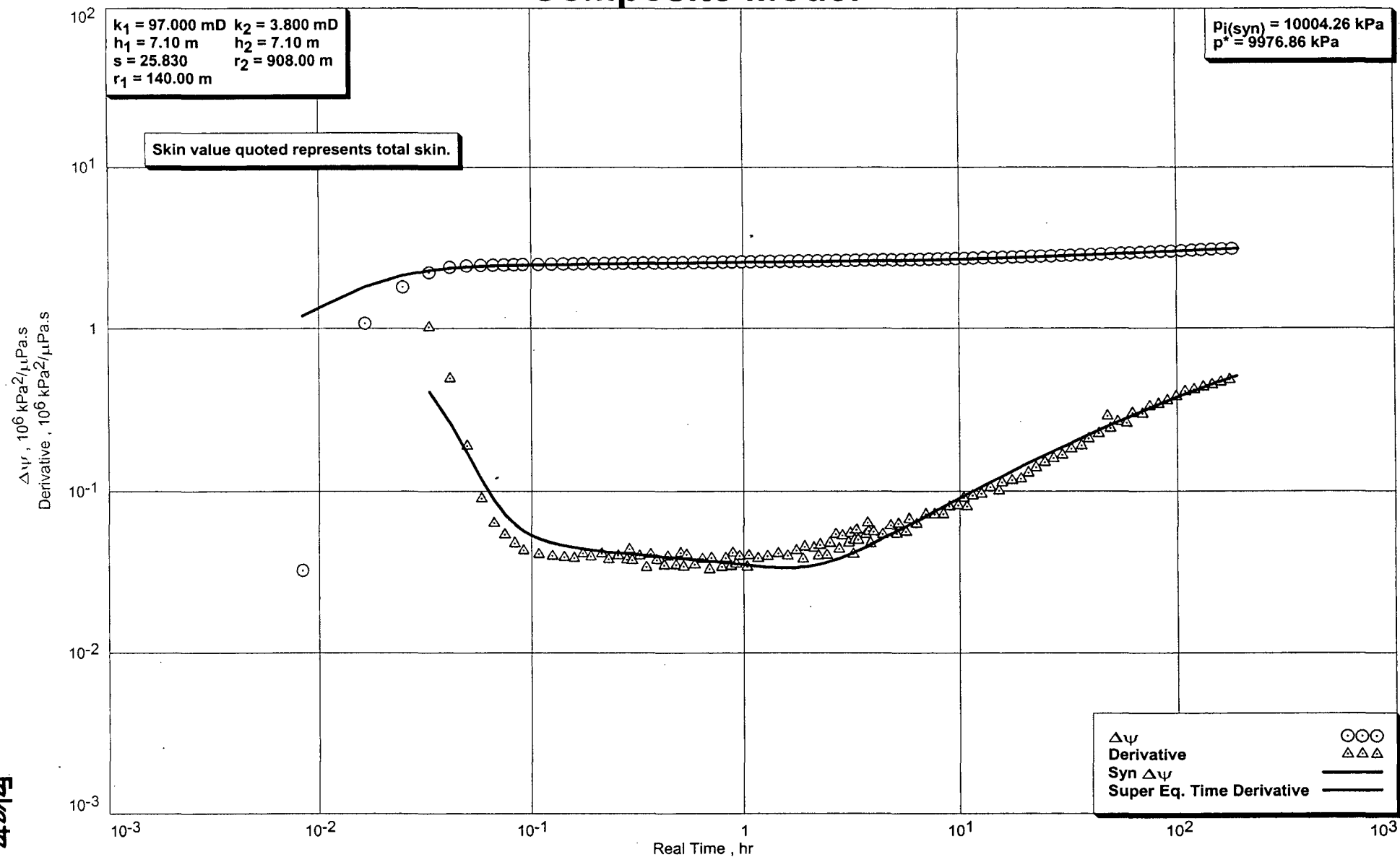
Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
595	189.0000	189.0000	9717.23	
596	190.0833	190.0833	9718.87	
597	191.1833	191.1833	9720.57	
598	192.3000	192.3000	9722.36	
599	193.4333	193.4333	9724.14	
600	194.5833	194.5833	9725.98	
601	195.7500	195.7500	9727.86	
602	196.9333	196.9333	9729.74	
603	198.1500	198.1500	9731.61	
604	199.3833	199.3833	9733.49	
605	200.6333	200.6333	9735.36	
606	201.9000	201.9000	9737.16	
607	203.1833	203.1833	9739.03	
608	204.4833	204.4833	9740.77	
609	205.8167	205.8167	9742.48	
610	207.1667	207.1667	9744.32	
611	208.5333	208.5333	9746.23	
612	209.9167	209.9167	9747.95	
613	211.3333	211.3333	9749.92	
614	212.7667	212.7667	9751.77	
615	214.2167	214.2167	9753.71	
616	215.7000	215.7000	9755.70	
617	217.2000	217.2000	9757.53	
618	218.7167	218.7167	9759.41	
619	220.2667	220.2667	9761.24	
620	221.8333	221.8333	9763.08	
621	223.4333	223.4333	9764.73	
622	225.0500	225.0500	9766.43	
623	226.7000	226.7000	9768.34	
624	228.3667	228.3667	9770.17	
625	230.0667	230.0667	9772.13	
626	231.7833	231.7833	9773.82	
627	233.5333	233.5333	9775.67	
628	235.3167	235.3167	9777.51	
629	237.1167	237.1167	9779.56	
630	238.9500	238.9500	9781.35	
631	240.8167	240.8167	9783.25	
632	242.7000	242.7000	9784.90	
633	244.6167	244.6167	9786.85	
634	246.5667	246.5667	9788.57	
635	248.5500	248.5500	9790.31	
636	250.5500	250.5500	9792.14	
637	252.5833	252.5833	9793.86	
638	254.6500	254.6500	9795.51	
639	256.7500	256.7500	9797.23	
640	258.8833	258.8833	9799.03	
641	261.0500	261.0500	9800.88	
642	263.2500	263.2500	9802.56	
643	265.4833	265.4833	9804.34	
644	267.7500	267.7500	9806.11	
645	270.0500	270.0500	9808.01	
646	272.3833	272.3833	9809.83	
647	274.7667	274.7667	9811.54	
648	277.1833	277.1833	9813.24	
649	279.6333	279.6333	9814.92	
650	282.1167	282.1167	9816.70	
651	284.6500	284.6500	9818.32	
652	287.2167	287.2167	9820.02	
653	289.8167	289.8167	9821.56	
654	292.4667	292.4667	9823.18	
655	295.1500	295.1500	9824.84	
656	297.8833	297.8833	9826.40	
657	300.6500	300.6500	9828.08	
658	303.4667	303.4667	9829.67	
659	306.3167	306.3167	9831.44	
660	309.2167	309.2167	9832.89	

Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

Item	Time	Cum. Time	Sandface Pressure	Gas Rate
	hr	hr	kPa(a)	10 ³ m ³ /d
661	309.7833	309.7833	9832.82	
662	309.8000	309.8000	9832.81	

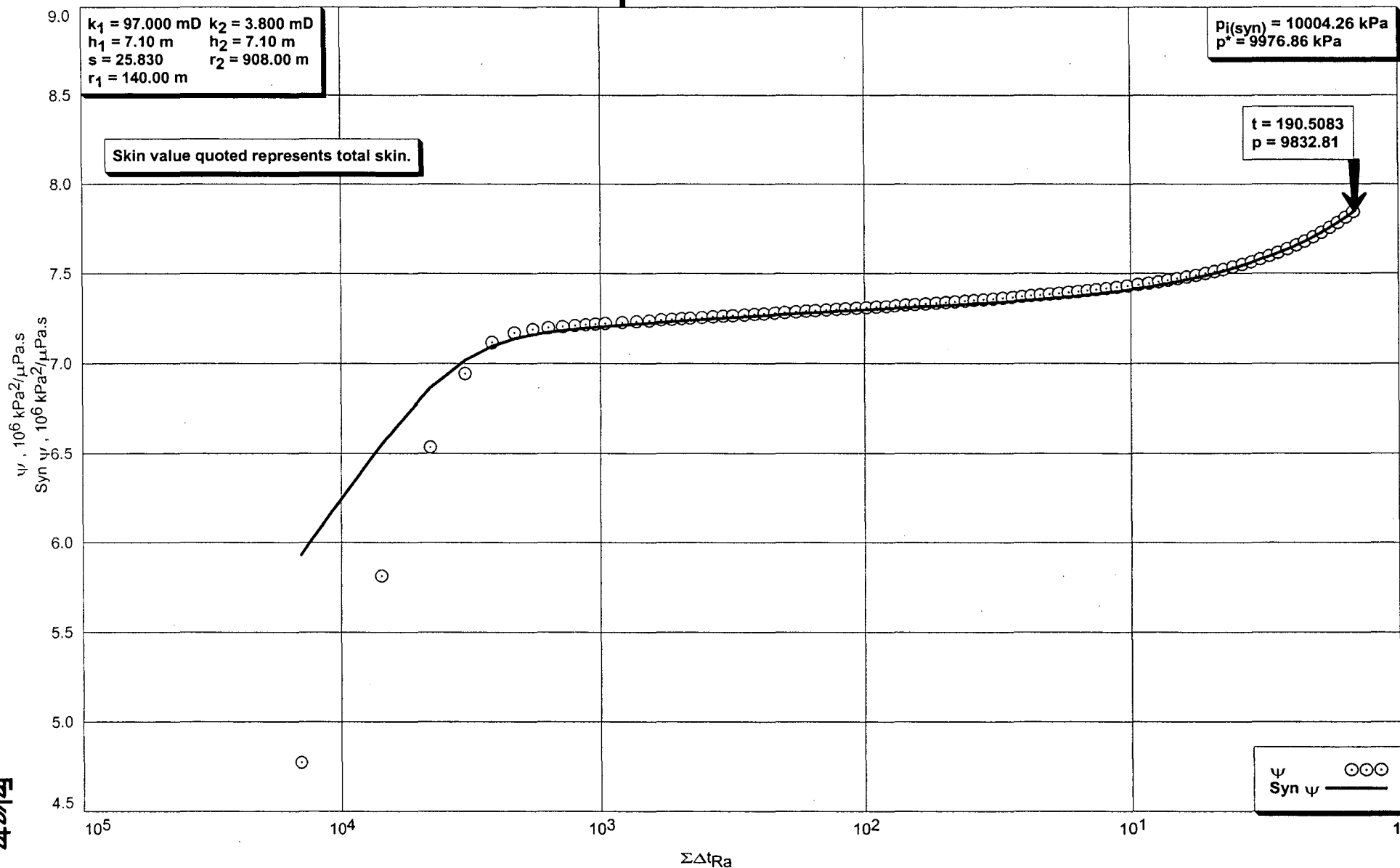
Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

Composite Model



Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

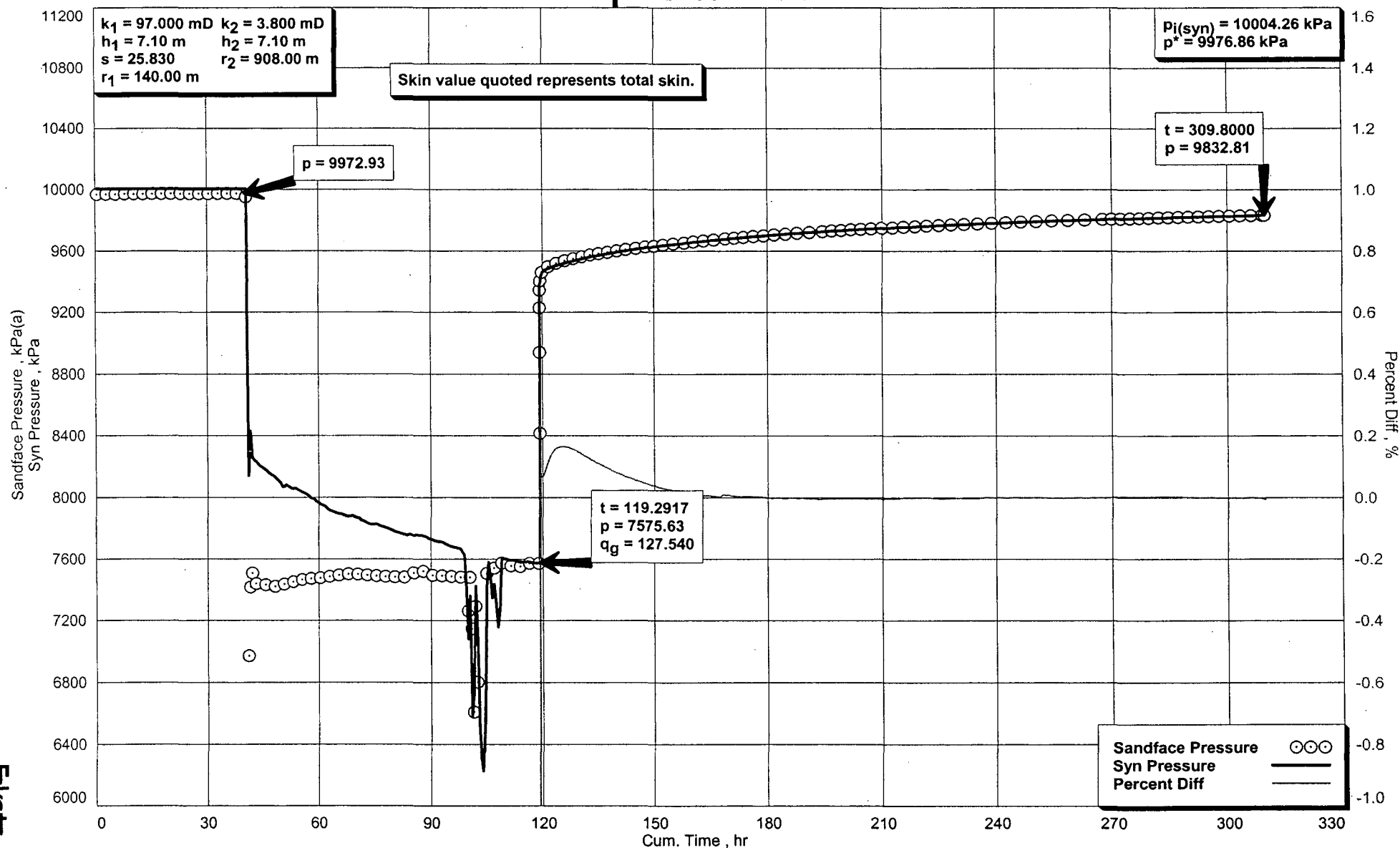
Composite Model



Fekete
Associates Inc.

Paramount et al Cameron
 300/c-50-60-10-117-30/0
 Sulphur Point: 1360.0-1362.0 mKB
 March 14-27, 2001

Composite Model



Associates Inc.

Fast

Composite Gas Well Model

Case Name : Composite Model

Paramount et al Cameron

300/c-50-60-10-117-30/0

Sulphur Point: 1360.0-1362.0 mKB

March 14-27, 2001

Model Parameters

Region 1

Permeability	$k_1 =$	97.000 mD
Viscosity	$\mu_1 =$	0.015 mPa.s
Net Pay	$h_1 =$	7.10 m
Total Porosity	$\phi_{t1} =$	10.70 %
Total Compressibility	$c_{t1} =$	$8.292e-5 \text{ kPa}^{-1}$
Region Radius	$r_1 =$	140.00 m

Initial Gas In Place (model) 146470.783 10^3 m^3

Skin (s) 25.830

Apparent Wellbore Storage Dim. (C_{aD}) 150.00

Wellbore Storage Constant Dim. (C_D) 100.00

Storage Pressure Param. Dim. (C_{pD}) 0.500

Region 2

$k_2 =$	3.800 mD
$\mu_2 =$	0.015 mPa.s
$h_2 =$	7.10 m
$\phi_{t2} =$	10.70 %
$c_{t2} =$	$8.292e-5 \text{ kPa}^{-1}$
$r_2 =$	908.00 m

Production and Pressure

Final Gas Rate 127.540 $10^3 \text{ m}^3/\text{d}$

Final Measured Pressure 9832.81 kPa

Initial Pressure (p_i) 9972.99 kPa

Formation Parameters

Gas Saturation (S_g)	76.00 %
Water Saturation (S_w)	24.00 %
Oil Saturation (S_o)	0.00 %
Wellbore Radius (r_w)	0.091 m
Formation Temperature (T)	55.0 °C

Synthesis Results

Average Error	0.03 %
Synthetic Initial Pressure (p_i)	10004.26 kPa
Extrapolated Pressure at Specified Time	9976.86 kPa
Pressure Drop Due To Skin (Δp_s)	1178.37 kPa
Flow Efficiency (FE)	0.423
Damage Ratio (DR)	2.367

Fluid Properties

Gas Gravity (G)	0.643
N_2	4.08 %
H_2S	0.80 %
CO_2	4.87 %
Critical Pressure (P_c)	4682.00 kPa
Critical Temperature (T_c)	197.70 K
PVT Reference Pressure (pp_{VT})	9972.99 kPa
Gas Compressibility (c_g)	$1.08062e-4 \text{ kPa}^{-1}$
Gas Compressibility Factor (z)	0.885
Gas Viscosity (μ_g)	14.580 $\mu\text{Pa.s}$
Gas Formation Volume Factor (B_g)	$0.010245 \text{ m}^3/\text{m}^3$

Forecasts

Specified Flowing Pressure (p_{wfs})	7575.63 kPa
3 - Month Constant Rate	$70.555 \cdot 10^3 \text{ m}^3/\text{d}$
6 - Month Constant Rate	$59.200 \cdot 10^3 \text{ m}^3/\text{d}$
Specified Forecast Time	12.00 month
Forecast Constant Rate @ Current Skin	$45.034 \cdot 10^3 \text{ m}^3/\text{d}$
Forecast Constant Rate @ Skin=0	$57.422 \cdot 10^3 \text{ m}^3/\text{d}$
Forecast Constant Rate @ Skin=-4	$59.985 \cdot 10^3 \text{ m}^3/\text{d}$

C-50
L.S.

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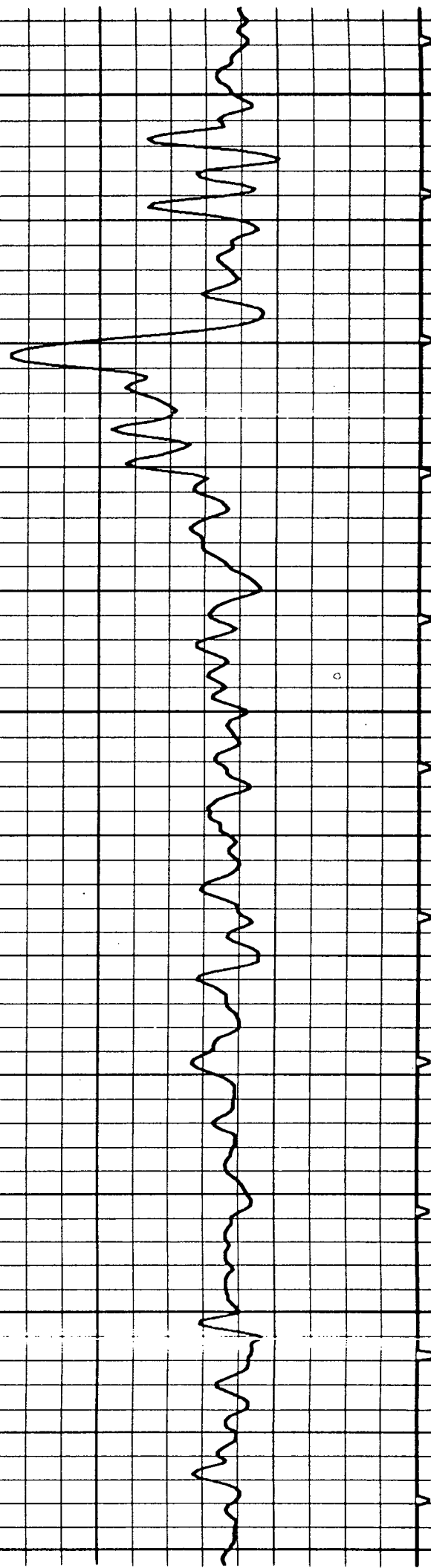
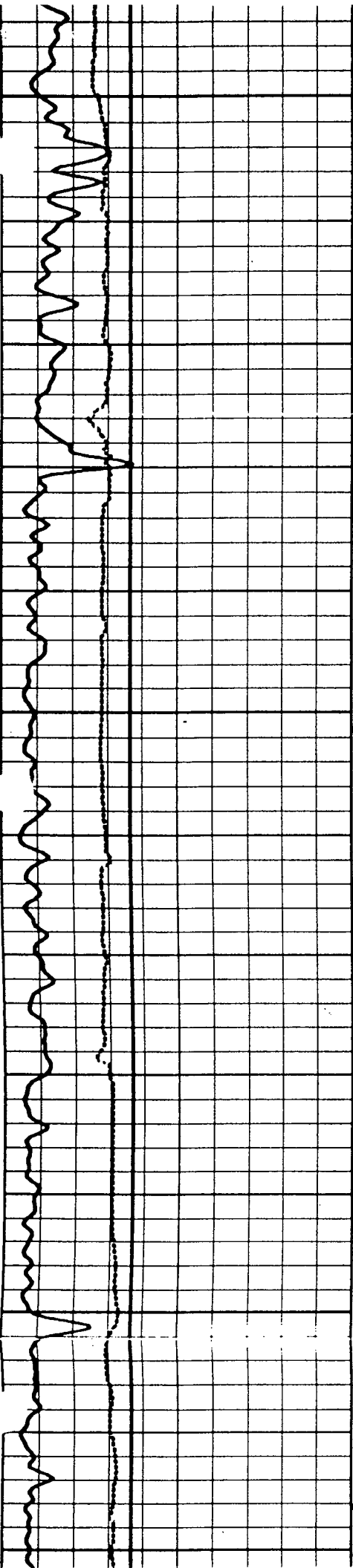
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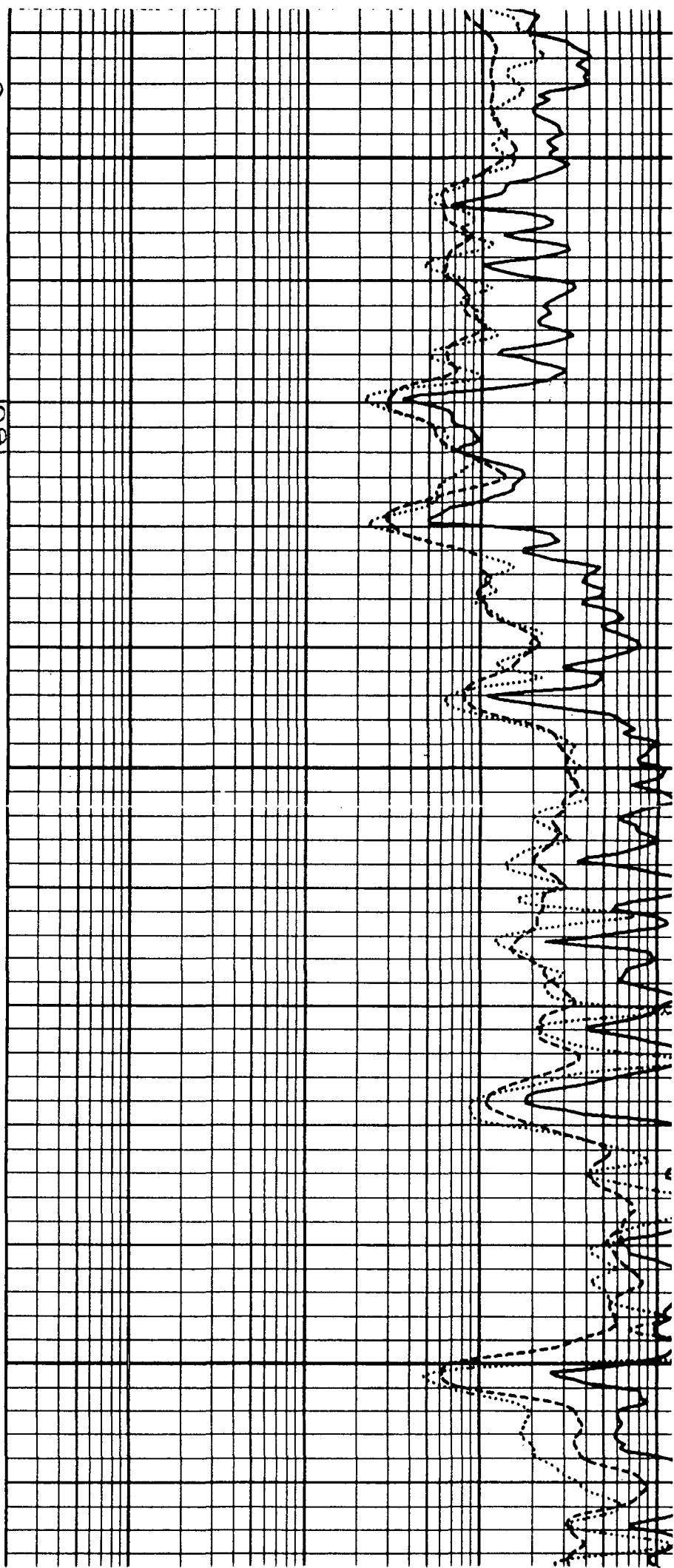
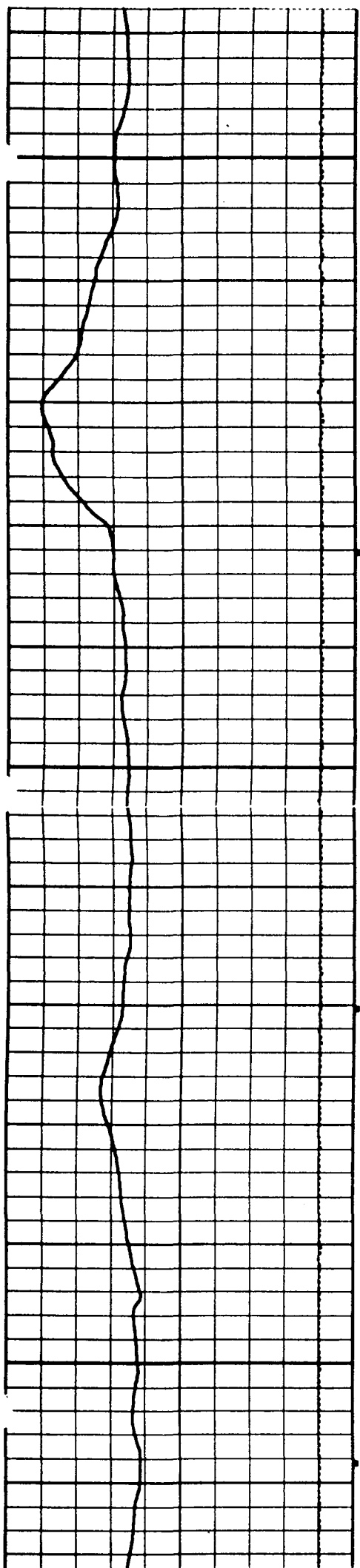
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PARAMOUNT RESOURCES LTD.

PARA et al CAMERON C-50

60-10-117-30

100/60-10-117-30/00

SULPHUR POINT

MAR 16-19, 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: PARA et al CAMERON C-50

Operator: PARAMOUNT RESOURCES LTD.

Location-Downhole: 60-10-117-30

Location-Surface: 60-10-117-30

Test Information:

Company: SOLID PRODUCTION SERVICES LTD.

Representative: GRANT HARTER

Supervisor: JAMES BEEDLE

Test Type: SINGLE POINT TEST

Job Number: PGP-539

Test Unit: PT-101

Start Date: 2001/03/16

Start Time: 11:59:00

End Date: 2001/03/19

End Time: 19:01:00

Report Date: 2001/05/11

Prepared By: LAURA D. DOMINICK

Remarks:

Qualified By:

WELL INFORMATION

Well Name : PARA et al CAMERON C-50

Well Operator : PARAMOUNT RESOURCES LTD.

Well Location : 60-10-117-30

Location-Surface : 60-10-117-30

Field : CAMERON

Well Type : Vertical

Pool : UNDEFINED

Formation : SULPHUR POINT

Perforation Type :			Producing Through : Tubing	Size	73.00mm
Pool Datum	m	CF	Elevation Referenced From	692.69m	KB
Datum Depth	m	CF	Elevation Referenced To	688.40m	GL
			Offset	4.29m	

Production Intervals

Production Interval & MPP Reference To : KB

MPP Pressure Reference : None

	From - m	To - m	Depth - m	Pressure - kPa
1.	1353.00	1366.00	1.	1359.50
2.			2.	
3.			3.	
4.			4.	
5.			5.	
6.			6.	
7.			7.	
8.			8.	
9.			9.	
10.			10.	
11.			11.	
12.			12.	

Remarks :

FieldNotes METER REPORT

PARAMOUNT RESOURCES LTD.
60-10-117-30
Start Test Date: 2001/03/16
Final Test Date: 2001/03/19

PARA et al CAMERON C-50
Formation: SULPHUR POINT
Pool: UNDEFINED
Job Number: PGP-539

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

PARAMOUNT RESOURCES LTD.

60-10-117-30

Start Test Date: 2001/03/16

Final Test Date: 2001/03/19

PARA et al CAMERON C-50

Formation: SULPHUR POINT

Pool: UNDEFINED

Job Number: PGP-539

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Tem	Csg Pres	Static Pres	Diff Pres	Mete Tem	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	Inc BSW	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³	m ³
1	2001/03/15	09:00:00	0.00	Arrive on location. Rig in test equipment.																
2	2001/03/16	07:00:00	22.00	Arrive on location. Wait for propane, heat up line heater.																
3		10:00:00	25.00	Safety meeting.																
4		11:00:00	26.00	Pressure test equipment. Repair leaks.																
5		11:59:00	26.98			8618		0												
6		12:00:00	27.00	Open well on 12.70mm adjustable choke.																
7		12:05:00	27.08	12.70		6125	0	0												
8		12:10:00	27.17			5335	2	0												
9		12:11:00	27.18	Increase choke to 13.09mm																
10		12:15:00	27.25	13.09		4995	4	0												
11		12:20:00	27.33			5038	6	0												
12		12:25:00	27.42			5085	6	0												
13		12:29:00	27.48		0.00				0	0.00	0	0.00	0.00							
14		12:29:00	27.48	Meter in service w/57.15mm orifice plate.																
15		12:30:00	27.50		57.15	5065	6	0	538	45.79	22	134.56	0.09							
16		12:35:00	27.58			5065	6	0	524	45.79	19	133.80	0.56							
17		12:36:00	27.60	Decrease choke to 12.70mm																
18		12:40:00	27.67	12.70		5205	7	0	524	45.54	18	133.67	1.02							
19		12:45:00	27.75			5244	7	0	524	45.54	16	134.15	1.49							
20		12:50:00	27.83			5225	7	3	517	45.54	15	133.65	1.95							
21		12:53:00	27.88	Decrease choke to 11.90mm																
22		12:55:00	27.92	11.90		5420	8	15	483	43.30	14	126.77	2.41							
23		13:00:00	28.00			5580	8	32	483	43.30	16	126.30	2.85							
24		13:05:00	28.08			5690	8	66	455	40.81	17	119.38	3.27							
25		13:06:00	28.10	Decrease choke to 11.11mm																
26		13:10:00	28.17	11.11		6140	8	111	407	39.32	15	112.29	3.67							
27		13:10:00	28.17	Hydrate came up tubing.																
28		13:12:00	28.20	Increase choke to 11.50mm. H ² S = 1.4%.																
29		13:15:00	28.25	11.50		5820	8	186	483	42.80	15	125.79	4.09							
30		13:20:00	28.33			5860	8	312	483	42.55	15	125.42	4.52							

2001/03/15 09:00:00 To 2001/03/16 07:00:00

Gas Cum. 10³m³

Oil 0.000 Cum. 0.000 m³

PARAMOUNT RESOURCES LTD.

60-10-117-30

Start Test Date: 2001/03/16

Final Test Date: 2001/03/19

PARA et al CAMERON C-50

Formation: SULPHUR POINT

Pool: UNDEFINED

Job Number: PGP-539

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Tem	Csg Pres	Static Pres	Diff Pres	Mete Tem	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	Inc BSW	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³	m ³
31	2001/03/16	13:25:00	28.42			5872	9	533	476	42.30	16	124.07	4.96							
32		13:30:00	28.50			5895	9	765	469	42.55	16	123.69	5.39							
33		13:45:00	28.75			5960	10	960	469	42.55	15	123.91	6.68							
34		14:00:00	29.00			5993	11	1170	469	42.80	15	124.28	7.97							
35		14:30:00	29.50			5991	12	1385	469	43.05	17	124.20	10.56							
36		15:00:00	30.00			5993	12	1590	469	43.30	17	124.56	13.15							
37		15:30:00	30.50			5995	14	1795	476	43.30	17	125.32	15.75							
38		16:00:00	31.00			5997	14	1890	476	43.30	17	125.32	18.36							
39		16:30:00	31.50			5994	14	2010	476	43.30	17	125.32	20.97							
40		17:00:00	32.00			5983	15	2929	476	43.30	16	125.55	23.59							
41		17:30:00	32.50			5974	16	2968	476	43.30	15	125.78	26.20							
42		18:00:00	33.00			5980	16	3006	476	43.30	13	126.24	28.83							
43		18:30:00	33.50			5981	16	3050	476	43.30	12	126.47	31.46							
44		19:00:00	34.00			5975	16	3088	476	43.30	12	126.50	34.10							
45		19:30:00	34.50			5978	16	3090	476	43.30	11	126.70	36.73							
46		20:00:00	35.00			5980	16	3110	476	43.30	10	126.94	39.38							
47		20:30:00	35.50			5967	16	3842	483	43.30	10	127.71	42.03							
48		21:00:00	36.00			5970	16	4027	483	43.30	10	127.71	44.69							
49		21:30:00	36.50			5985	16	4550	496	43.30	10	129.23	47.37							
50		22:00:00	37.00			5977	17	4972	496	43.30	10	129.23	50.06							
51		22:00:00	37.00	Zero meter.																
52		22:30:00	37.50			5944	17	4543	483	43.30	10	127.71	52.73							
53		23:00:00	38.00			5939	18	4553	483	43.30	9	127.94	55.40							
54		23:30:00	38.50			5936	18	4559	483	43.30	9	127.94	58.06							
55	2001/03/17	00:00:00	39.00			5935	18	4565	483	43.30	8	128.18	60.73							
56		00:30:00	39.50			5935	18	4572	483	43.30	8	128.18	63.40							
57		01:00:00	40.00			5928	18	4580	483	42.80	8	127.43	66.06							
58		01:30:00	40.50			5936	18	4630	483	42.80	8	127.43	68.72							
59		02:00:00	41.00			6001	18	4672	483	42.80	7	127.67	71.38							
60		02:00:00	41.00	Zero meter. H ² S 1.35%																

2001/03/16 07:00:00 To 2001/03/17 06:30:00

Gas 95.407 Cum. 95.407 10³m³Oil 0.000 Cum. 0.000 m³

PARAMOUNT RESOURCES LTD.

60-10-117-30

Start Test Date: 2001/03/16

Final Test Date: 2001/03/19

PARA et al CAMERON C-50

Formation: SULPHUR POINT

Pool: UNDEFINED

Job Number: PGP-539

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Tem	Csg Pres	Static Pres	Diff Pres	Mete Tem	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	Inc BSW	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³	m ³
91	2001/03/17	17:30:00	56.50			6086	19	4688	490	43.80	6	130.19	155.19							
92		18:00:00	57.00			6089	19	4688	490	43.80	6	130.19	157.91							
93		18:30:00	57.50			6089	19	4698	490	43.55	6	129.81	160.61							
94		19:00:00	58.00			6081	19	4709	496	43.55	6	130.58	163.33							
95		19:30:00	58.50			6075	19	4800	496	43.55	6	130.58	166.05							
96		20:00:00	59.00			6070	19	4802	496	43.55	6	130.58	168.77							
97		20:30:00	59.50			6075	19	4809	496	43.55	5	130.83	171.49							
98		21:00:00	60.00			6072	19	4810	496	43.55	4	131.08	174.22							
99		21:30:00	60.50			6067	19	4812	496	43.55	4	131.08	176.95							
100		22:00:00	61.00			6075	19	4839	496	43.30	4	130.70	179.68							
101		22:00:00	61.00	Zero meter.																
102		22:30:00	61.50			6088	19	4842	496	43.30	4	130.70	182.40							
103		23:00:00	62.00			6089	19	4844	496	42.80	3	130.18	185.12							
104		23:30:00	62.50			6086	19	4849	496	42.80	3	130.18	187.83							
105	2001/03/18	00:00:00	63.00			6086	19	4842	496	42.80	2	130.43	190.54							
106		00:30:00	63.50			6082	19	4839	496	42.80	2	130.43	193.26							
107		01:00:00	64.00			6079	19	4838	496	42.80	2	130.43	195.98							
108		01:30:00	64.50			6074	19	4844	496	42.80	2	130.43	198.70							
109		02:00:00	65.00			6084	19	4861	496	42.80	2	130.43	201.41							
110		02:00:00	65.00	Zero meter.																
111		02:30:00	65.50			6089	19	4866	496	42.80	2	130.43	204.13							
112		03:00:00	66.00			6082	19	4866	496	42.80	1	130.68	206.85							
113		03:30:00	66.50			6076	19	4864	496	42.80	1	130.68	209.57							
114		04:00:00	67.00			6071	19	4866	496	42.80	0	130.94	212.30							
115		04:30:00	67.50			6075	19	4869	496	42.80	0	130.94	215.03							
116		05:00:00	68.00			6081	19	4872	496	42.80	0	130.94	217.75							
117		05:30:00	68.50			6085	19	4875	496	42.80	0	130.94	220.48							
118		06:00:00	69.00			6088	19	4879	496	42.80	0	130.94	223.21							
119		06:30:00	69.50			6085	19	4885	496	42.80	0	130.94	225.94							
120		07:00:00	70.00			6085	19	4885	496	42.80	0	130.94	228.66							

2001/03/17 06:30:00 To 2001/03/18 06:30:00

Gas 130.530 Cum. 225.937 10³m³Oil 0.000 Cum. 0.000 m³

PARAMOUNT RESOURCES LTD.

60-10-117-30

Start Test Date: 2001/03/16

Final Test Date: 2001/03/19

PARA et al CAMERON C-50

Formation: SULPHUR POINT

Pool: UNDEFINED

Job Number: PGP-539

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Tem	Csg Pres	Static Pres	Diff Pres	Mete Tem	Gas Rate	Cum Gas	Fld Vol	BSW	Cum Fld	Inc Oil	Cum Oil	Inc BSW	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³	m ³
61	2001/03/17	02:30:00	41.50			6004	18	4687	483	42.80	7	127.67	74.04							
62		03:00:00	42.00			6009	18	4694	483	42.80	6	127.91	76.70							
63		03:30:00	42.50			6006	18	4701	483	42.80	6	127.91	79.36							
64		04:00:00	43.00			6009	18	4704	483	42.80	6	127.91	82.03							
65		04:30:00	43.50			6007	18	4714	483	42.80	5	128.16	84.70							
66		05:00:00	44.00			6004	18	4764	483	42.80	5	128.16	87.37							
67		05:30:00	44.50			6010	18	4774	483	43.30	5	128.91	90.04							
68		06:00:00	45.00			6014	18	4762	483	43.30	6	128.67	92.73							
69		06:30:00	45.50			6044	18	4768	483	43.30	6	128.67	95.41							
70		07:00:00	46.00			6046	18	4775	490	43.30	6	129.44	98.10							
71		07:30:00	46.50			6045	18	4780	490	43.30	6	129.44	100.79							
72		08:00:00	47.00			6051	19	4780	490	43.55	6	129.81	103.49							
73		08:30:00	47.50			6056	19	4782	490	43.80	7	129.94	106.20							
74		09:00:00	48.00			6057	19	4590	490	43.80	7	129.94	108.91							
75		09:30:00	48.50			6057	19	4592	490	43.80	7	129.94	111.61							
76		10:00:00	49.00			6057	19	4598	496	43.80	7	130.71	114.33							
77		10:30:00	49.50			6057	19	4612	496	44.05	7	131.09	117.06							
78		11:00:00	50.00			6060	19	4616	496	44.05	7	131.09	119.79							
79		11:30:00	50.50			6062	19	4624	496	44.05	7	131.09	122.52							
80		12:00:00	51.00			6064	19	4629	496	44.05	7	131.09	125.25							
81		12:30:00	51.50			6065	19	4638	496	44.05	7	131.09	127.98							
82		13:00:00	52.00			6067	19	4642	496	44.05	7	131.09	130.71							
83		13:30:00	52.50			6070	19	4651	496	44.05	8	130.84	133.44							
84		14:00:00	53.00			6076	19	4659	496	44.05	8	130.84	136.16							
85		14:30:00	53.50			6078	19	4661	496	44.05	8	130.84	138.89							
86		15:00:00	54.00			6080	19	4668	496	44.05	8	130.84	141.62							
87		15:30:00	54.50			6078	19	4674	496	44.05	8	130.84	144.34							
88		16:00:00	55.00			6083	19	4675	496	43.80	8	130.47	147.06							
89		16:30:00	55.50			6085	19	4682	490	43.80	7	129.94	149.78							
90		17:00:00	56.00			6086	19	4685	490	43.80	7	129.94	152.48							

2001/03/16 07:00:00 To 2001/03/17 06:30:00

Gas 95.407 Cum. 95.407 10³m³Oil 0.000 Cum. 0.000 m³

PARAMOUNT RESOURCES LTD.

60-10-117-30

Start Test Date: 2001/03/16

Final Test Date: 2001/03/19

PARA et al CAMERON C-50

Formation: SULPHUR POINT

Pool: UNDEFINED

Job Number: PGP-539

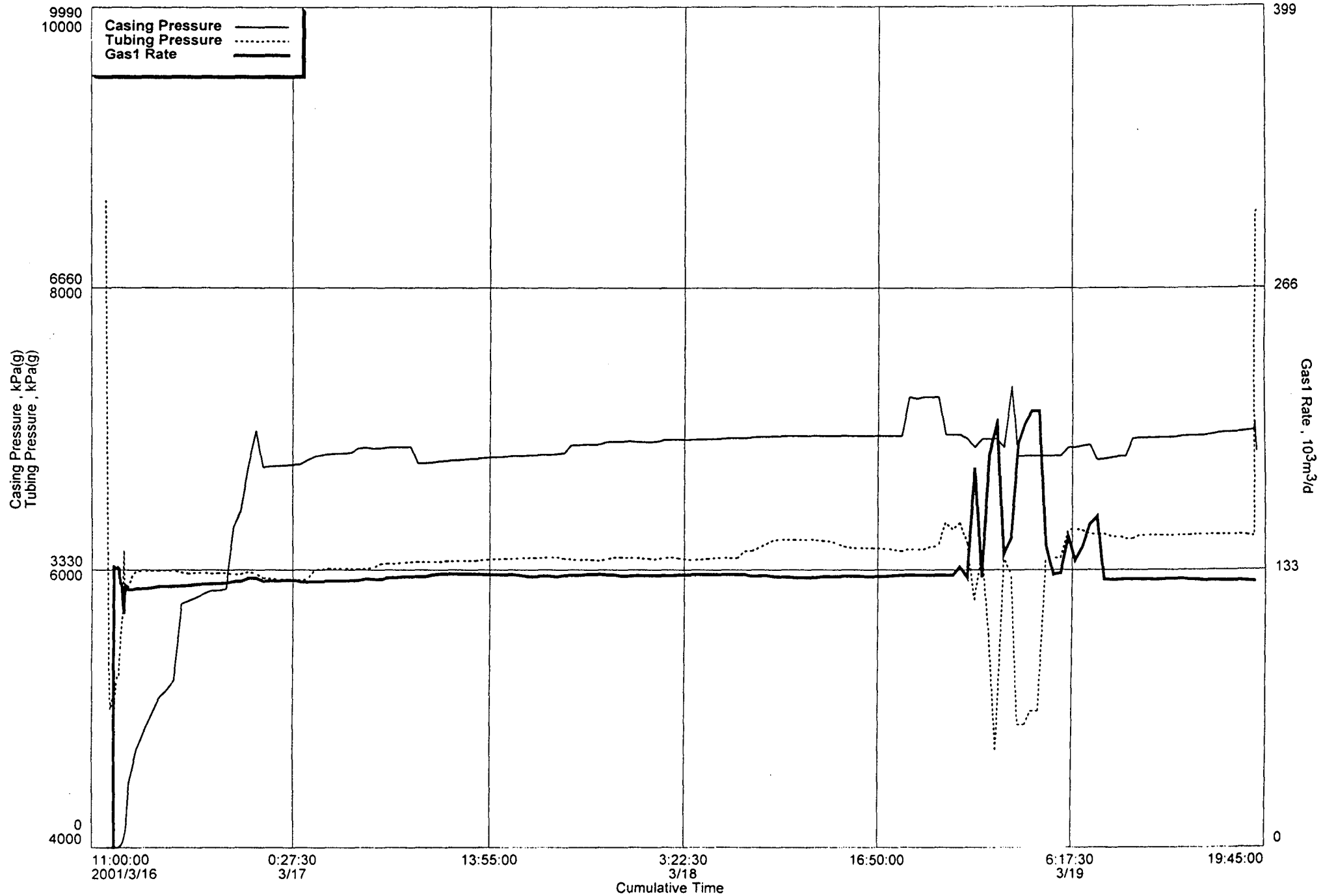
	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Tem	Csg Pres	Static Pres	Diff Pres	Mete Tem	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	Inc BSW	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³		m ³	m ³	m ³	m ³	m ³
121	2001/03/18	07:30:00	70.50			6135	19	4885	496	42.80	0	130.94	231.39							
122		08:00:00	71.00			6135	19	4893	490	42.80	0	130.17	234.11							
123		08:00:00	71.00	Change dead weight.																
124		08:30:00	71.50			6160	19	4900	490	43.05	1	130.30	236.83							
125		09:00:00	72.00			6185	19	4900	490	43.30	2	130.43	239.54							
126		09:30:00	72.50			6210	20	4905	490	43.30	4	129.93	242.25							
127		10:00:00	73.00			6215	20	4905	490	43.30	5	129.68	244.96							
128		10:30:00	73.50			6215	20	4910	490	43.30	5	129.68	247.66							
129		11:00:00	74.00			6215	20	4910	490	43.30	6	129.44	250.36							
130		11:30:00	74.50			6215	20	4910	490	43.30	6	129.44	253.06							
131		12:00:00	75.00			6215	20	4910	490	43.30	6	129.44	255.75							
132		12:30:00	75.50			6210	20	4910	490	43.30	6	129.44	258.45							
133		13:00:00	76.00			6205	20	4910	490	43.30	4	129.93	261.15							
134		13:30:00	76.50			6200	20	4909	490	43.30	4	129.93	263.86							
135		14:00:00	77.00			6185	20	4910	490	43.30	4	129.93	266.56							
136		14:30:00	77.50			6165	20	4910	490	43.30	3	130.18	269.27							
137		15:00:00	78.00			6155	20	4910	490	43.30	3	130.18	271.99							
138		15:30:00	78.50			6155	20	4910	490	43.30	3	130.18	274.70							
139		16:00:00	79.00			6155	20	4910	490	43.30	4	129.93	277.41							
140		16:30:00	79.50			6155	20	4910	490	43.30	4	129.93	280.11							
141		17:00:00	80.00			6150	20	4910	490	43.30	4	129.93	282.82							
142		17:30:00	80.50			6150	20	4910	490	43.30	3	130.18	285.53							
143		18:00:00	81.00			6140	20	4910	490	43.30	2	130.43	288.24							
144		18:30:00	81.50			6135	20	4910	490	43.30	1	130.68	290.96							
145		19:00:00	82.00			6145	20	5370	490	43.30	1	130.68	293.69							
146		19:30:00	82.50			6145	20	5350	490	43.30	1	130.68	296.41							
147		20:00:00	83.00			6145	20	5370	490	43.30	1	130.68	299.13							
148		20:30:00	83.50			6165	20	5370	490	43.30	1	130.68	301.85							
149		21:00:00	84.00			6165	20	5370	490	43.30	1	130.68	304.58							
150		21:30:00	84.50			6335	20	4925	490	43.30	1	130.68	307.30							

2001/03/18 06:30:00 To 2001/03/19 06:30:00

Gas 141.420 Cum. 367.357 10³m³Oil 0.000 Cum. 0.000 m³

60-10-117-30
Start Test Date: 2001/03/16
Final Test Date: 2001/03/19

PARA et al CAMERON C-50
Formation: SULPHUR POINT
Pool: UNDEFINED
Job Number: PGP-539



PARAMOUNT RESOURCES LTD.

60-10-117-30

Start Test Date: 2001/03/16

Final Test Date: 2001/03/19

PARA et al CAMERON C-50

Formation: SULPHUR POINT

Pool: UNDEFINED

Job Number: PGP-539

	Date	Clock Time	Cum Time	Choke Size	Orifice Size	Tbg Pres	Tbg Tem	Csg Pres	Static Pres	Diff Pres	Mete Tem	Gas Rate	Cum Gas	Fld Vol	BSW %	Cum Fld	Inc Oil	Cum Oil	Inc BSW	BSW Vol
	yyyy/mm/d	hh:mm:ss	hr	mm	mm	kPa(g)	°C	kPa(g)	kPa(g)	kPa	°C	10 ³ m ³ /d	10 ³ m ³	m ³	%	m ³	m ³	m ³	m ³	m ³
181	2001/03/19	08:00:00	95.00			6250	20	4630	455	67.69	5	158.08	376.65							
182		08:00:00	95.00	Clear hydrate in meter run.																
183		08:30:00	95.50			6255	20	4640	483	43.30	6	128.67	379.64							
184		09:00:00	96.00			6235	20	4655	483	43.30	7	128.42	382.32							
185		09:30:00	96.50			6235	20	4670	483	43.30	7	128.42	384.99							
186		10:00:00	97.00			6220	20	4670	483	43.30	6	128.67	387.67							
187		10:30:00	97.50			6220	20	4875	483	43.30	6	128.67	390.35							
188		11:00:00	98.00			6245	20	4885	483	43.30	6	128.67	393.03							
189		11:30:00	98.50			6245	20	4885	483	43.30	6	128.67	395.71							
190		12:00:00	99.00			6245	20	4885	483	43.05	6	128.29	398.39							
191		12:30:00	99.50			6245	20	4890	483	43.05	5	128.53	401.06							
192		13:00:00	100.00			6245	20	4890	483	43.05	4	128.78	403.74							
193		13:30:00	100.50			6245	20	4895	483	43.05	4	128.78	406.43							
194		14:00:00	101.00			6245	20	4905	483	43.05	4	128.78	409.11							
195		14:30:00	101.50			6245	20	4910	483	42.80	4	128.40	411.79							
196		15:00:00	102.00			6250	20	4910	483	42.80	4	128.40	414.46							
197		15:30:00	102.50			6250	20	4915	483	42.55	4	128.02	417.13							
198		16:00:00	103.00			6250	20	4925	483	42.55	4	128.02	419.80							
199		16:30:00	103.50			6250	20	4940	483	42.55	4	128.02	422.47							
200		17:00:00	104.00			6250	20	4950	483	42.55	4	128.02	425.14							
201		17:30:00	104.50			6250	20	4950	483	42.55	4	128.02	427.80							
202		18:00:00	105.00			6250	20	4955	483	42.55	4	128.02	430.47							
203		18:30:00	105.50			6245	20	4965	483	42.55	5	127.78	433.13							
204		19:00:00	106.00			6235	20	4975	483	42.55	6	127.54	435.79							
205		19:01:00	106.02	Shut in well. Start buildups.																
206		19:05:00	106.08			8535		5075												
207		19:10:00	106.17			8535		4725												

2001/03/19 06:30:00 To 2001/03/19 19:10:00

Gas 68.437 Cum. 435.794 10³m³Oil 0.000 Cum. 0.000 m³

PARAMOUNT RESOURCES LTD.

PARA ET AL CAMERON C-50

C-50

Static Gradient

Mar 6/2001

Sulphur Point

**Test Completed By
Solid Production Services**

505 – 19th Ave

Nisku, Alberta

T9E-7V9

(780) 955-7525

GENERAL INFORMATION

Client Information:

Company: Paramount Resources Ltd.

Contact:

Phone:

Fax:

e-mail:

Site Information:

Contact:

Phone:

Fax:

e-mail:

Well Information:

Name: Para et al Cameron C-50

Operator:

Location-Downhole: C-50

Location-Surface:

Test Information:

Company: Solid Production Services Ltd.

Representative:

Supervisor:

Test Type: Static Gradient

Job Number: 0103072

Test Unit:

Start Date: 2001/03/06

Start Time: 13:51:00

End Date: 2001/03/06

End Time: 17:31:00

Report Date: 2001/03/10

Prepared By: Ella Berscheid

Remarks:

Qualified By:

WELL INFORMATION

Well Name : Para et al Cameron C-50

Well Operator :

Well Location : C-50

Location-Surface :

Field : Cameron

Well Type : Vertical

Pool :

Formation : Sulphur Point

Perforation Type :			Producing Through : Tubing	Size	73.00 mm
Pool Datum	m	CF	Elevation Referenced From	692.70 m	KB
Datum Depth	m	CF	Elevation Referenced To	688.40 m	GL
			Offset	4.30 m	

Production Intervals

Production Interval & MPP Reference To : KB

MPP Pressure Reference : None

	From - m	To - m	Depth - m	Pressure - kPa
1.	1360.00	1362.00	1.	1361.00
2.			2.	
3.			3.	
4.			4.	
5.			5.	
6.			6.	
7.			7.	
8.			8.	
9.			9.	
10.			10.	
11.			11.	
12.			12.	

Remarks :

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Static Gradient Top gauge 75063

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0103072

Top

Gauge Serial Number	75063	Gauge Type	ss2500
Gauge Manufacturer	Spartek	Maximum Recorder Range	20685.00 kPa
Run Depth	1360.50000 m	Date of Last Calibration	2000/12/06
Gauge Start Date	2001/03/06 13:51:00	Gauge Stop Date	2001/03/06 17:31:00
Date Gauge On Bottom	2001/03/06 15:09:00	Date Gauge Off Bottom	2001/03/06 17:09:00

Test Data

Test/Prod Interval Top KB (TVD)	1360.00000 m	Base KB (TVD)	1362.00000 m
Pool Datum	m	Datum Depth	m
Tubing Pressure Initial	93.00 kPa(a)	Final	kPa(a)
Casing Pressure Initial	93.00 kPa(a)	Final	kPa(a)
Start Test Date	2001/03/06 13:51:00	Time Well Shut-In	2001/03/05 14:00:00

Depth m	Time hh:mm:ss	Duration min	Pressure kPa(a)	Gradient kPa/m	Temp. °C	Gradient °C/m
3.80	14:07:18	16.30	91.39	-0.036	8.78	-0.003
303.80	14:21:28	14.17	80.57	8.459	7.98	0.045
603.80	14:29:08	7.67	2618.21	9.714	21.58	0.035
903.80	14:37:08	8.00	5532.44	9.778	32.06	0.047
1103.80	14:44:38	7.50	7488.02	9.694	41.55	0.058
1203.80	14:51:18	6.67	8457.46	9.710	47.33	0.050
1303.80	14:56:57	5.67	9428.44	9.564	52.29	0.066
1328.80	15:02:17	5.33	9667.54	9.432	53.95	0.032
1348.80	15:07:18	5.00	9856.17	9.140	54.60	0.033
1360.50	15:14:08	6.83	9963.11		54.98	

Results

Gas Gradient	0.000 kPa/m	Gas/Liquid Interface	326.16 m	80.57 kPa(a)
Liquid Gradient	9.140 kPa/m	Well Datum (MPP)	1361.00 m	9967.68 kPa(a)

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Static Gradient Bottom gauge 75115

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0103072

Bottom

Gauge Serial Number	75115	Gauge Type	ss2500
Gauge Manufacturer	Spartek	Maximum Recorder Range	20685.00 kPa
Run Depth	1361.00000 m	Date of Last Calibration	2001/02/10
Gauge Start Date	2001/03/06 13:51:00	Gauge Stop Date	2001/03/06 17:31:00
Date Gauge On Bottom	2001/03/06 15:09:00	Date Gauge Off Bottom	2001/03/06 17:09:00

Test Data

Test/Prod Interval Top KB (TVD)	1360.00000 m	Base KB (TVD)	1362.00000 m
Pool Datum	m	Datum Depth	m
Tubing Pressure Initial	93.00 kPa(a)	Final	kPa(a)
Casing Pressure Initial	93.00 kPa(a)	Final	kPa(a)
Start Test Date	2001/03/06 13:51:00	Time Well Shut-In	2001/03/05 14:00:00

Depth m	Time hh:mm:ss	Duration min	Pressure kPa(a)	Gradient kPa/m	Temp. °C	Gradient °C/m
4.30	14:15:17	24.28	89.78		2.59	
304.30	14:21:47	6.50	90.40	0.002	3.79	0.004
604.30	14:29:48	8.00	2623.65	8.444	19.62	0.053
904.30	14:37:37	7.83	5537.16	9.712	30.54	0.036
1104.30	14:45:07	7.50	7496.79	9.798	40.10	0.048
1204.30	14:51:47	6.67	8469.48	9.727	46.19	0.061
1304.30	14:57:28	5.67	9440.37	9.709	51.12	0.049
1329.30	15:02:38	5.17	9682.13	9.670	53.26	0.086
1349.30	15:07:37	5.00	9874.97	9.642	54.08	0.041
1361.00	15:13:48	6.17	9980.39	9.010	54.55	0.040

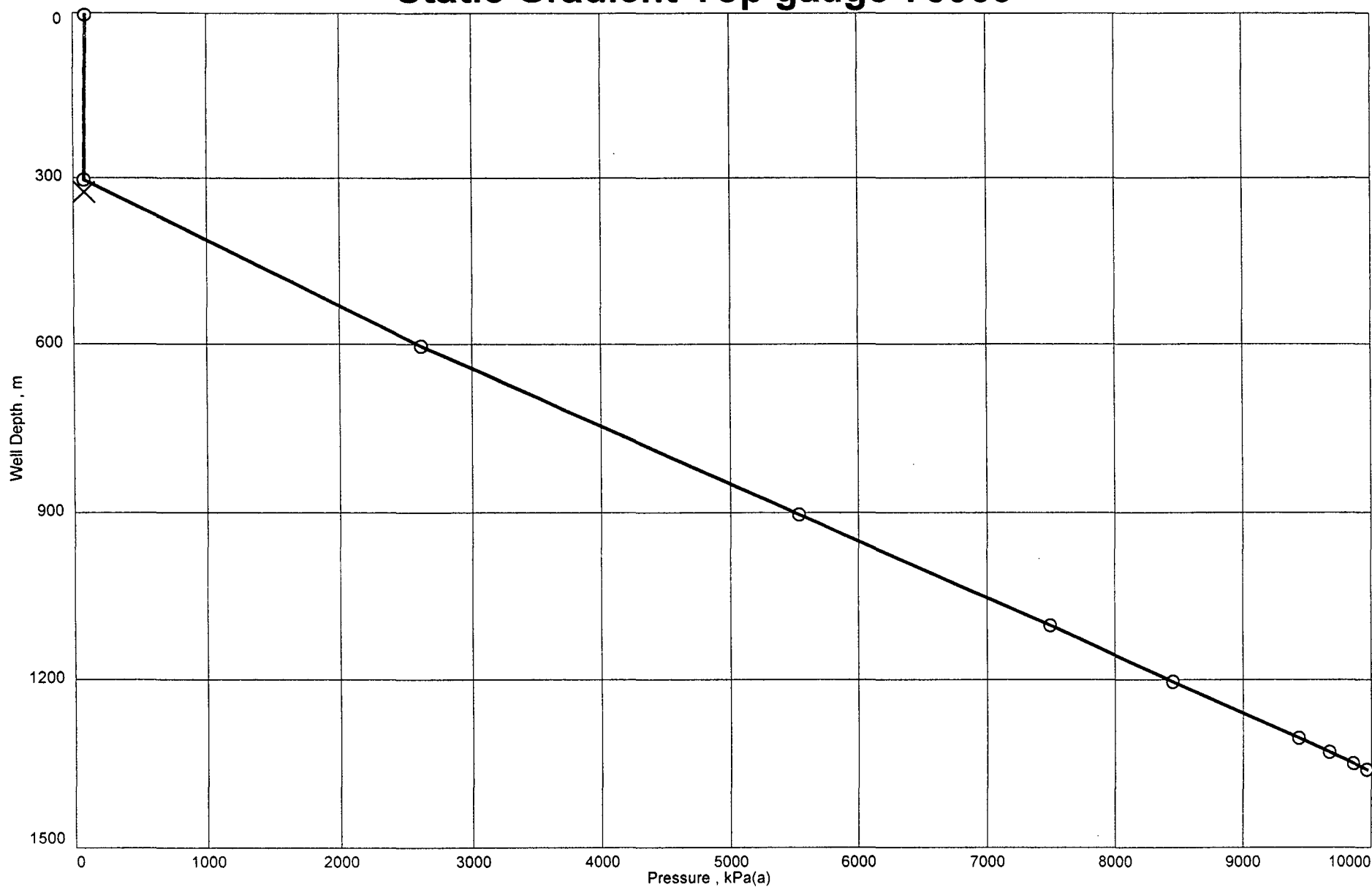
Results

Gas Gradient	0.002 kPa/m	Gas/Liquid Interface	323.14 m	90.44 kPa(a)
Liquid Gradient	9.010 kPa/m	Well Datum (MPP)	1361.00 m	9980.39 kPa(a)

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Para et al Cameron C-50
Formation: Sulphur Point
Job Number: 0103072

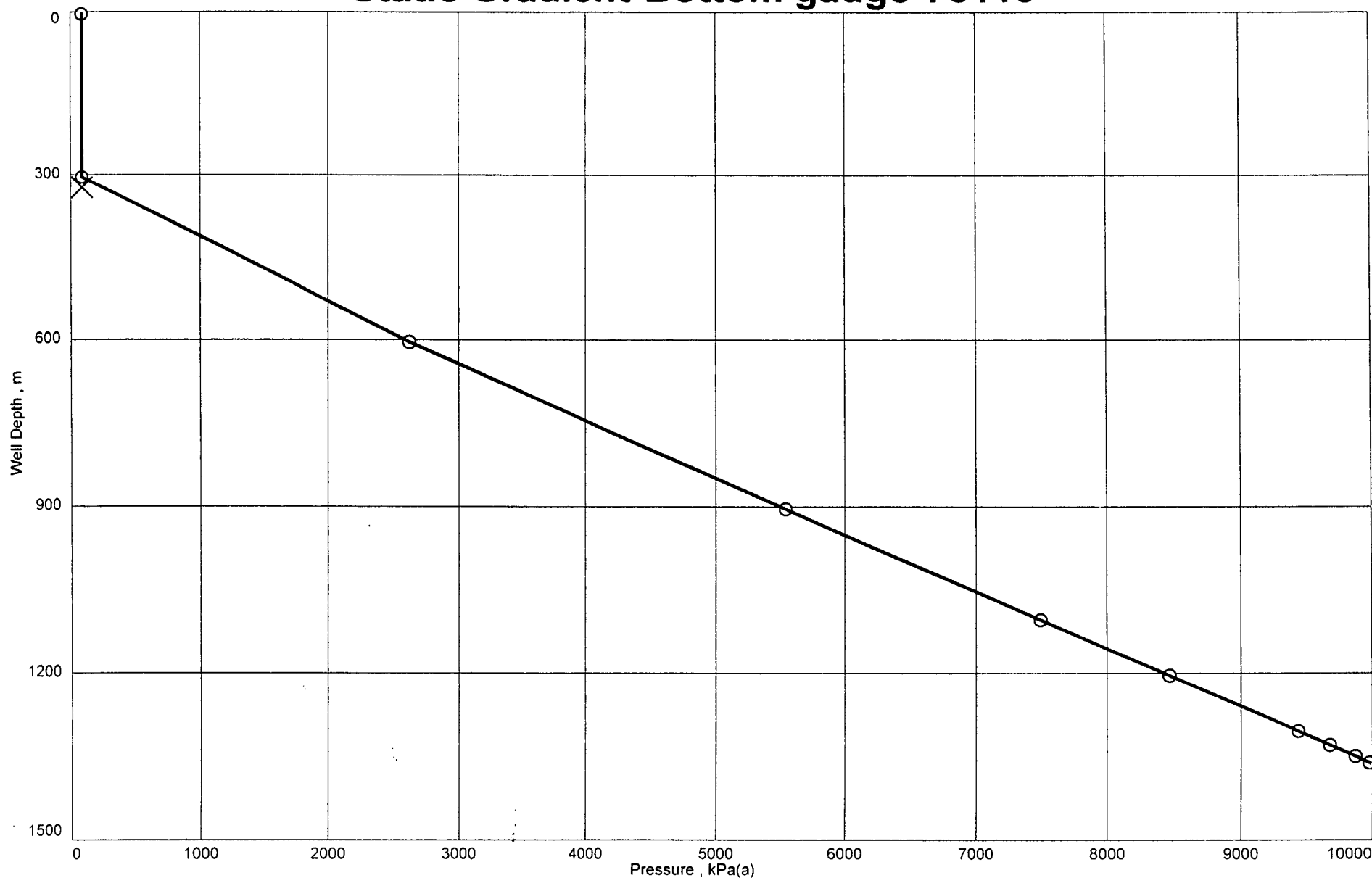
Static Gradient-Top gauge-75063



Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Para et al Cameron C-50
Formation: Sulphur Point
Job Number: 0103072

Static Gradient-Bottom gauge-75115



Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0103072

	75063	75063	75063	75063	75115	75115	75115	75115
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
1	2001/03/06	15:08:08	9962.42	54.65	2001/03/06	15:08:38	9980.41	54.17
2			On Bottom					
3			Run depth: 75063 - 1360.5 mkb, 75115 - 1361.0 mkb					
4	2001/03/06	15:08:17	9963.08	54.66	2001/03/06	15:08:48	9980.93	54.18
5	2001/03/06	15:08:27	9963.23	54.67	2001/03/06	15:08:57	9981.08	54.19
6	2001/03/06	15:09:07	9962.64	54.74	2001/03/06	15:09:38	9981.41	54.26
7	2001/03/06	15:09:47	9962.50	54.80	2001/03/06	15:10:18	9981.49	54.33
8	2001/03/06	15:10:27	9962.42	54.86	2001/03/06	15:10:58	9981.28	54.38
9	2001/03/06	15:11:08	9962.43	54.90	2001/03/06	15:11:38	9980.98	54.43
10	2001/03/06	15:11:48	9961.53	54.92	2001/03/06	15:12:18	9980.75	54.48
11	2001/03/06	15:12:28	9961.90	54.96	2001/03/06	15:12:57	9980.56	54.51
12	2001/03/06	15:13:08	9961.42	54.97	2001/03/06	15:13:37	9980.41	54.54
13	2001/03/06	15:13:48	9962.82	54.98	2001/03/06	15:14:17	9980.28	54.56
14	2001/03/06	15:14:27	9962.15	54.99	2001/03/06	15:14:57	9979.94	54.57
15	2001/03/06	15:15:07	9962.90	55.01	2001/03/06	15:15:38	9979.92	54.59
16	2001/03/06	15:15:47	9960.54	55.02	2001/03/06	15:16:18	9979.69	54.60
17	2001/03/06	15:16:27	9960.71	55.02	2001/03/06	15:16:58	9979.60	54.62
18	2001/03/06	15:17:08	9961.32	55.02	2001/03/06	15:17:38	9979.37	54.62
19	2001/03/06	15:17:48	9959.91	55.03	2001/03/06	15:18:17	9979.29	54.63
20	2001/03/06	15:18:28	9960.33	55.04	2001/03/06	15:18:57	9979.07	54.63
21	2001/03/06	15:19:08	9959.35	55.04	2001/03/06	15:19:37	9978.77	54.64
22	2001/03/06	15:19:48	9959.87	55.04	2001/03/06	15:20:17	9978.62	54.64
23	2001/03/06	15:20:27	9960.49	55.04	2001/03/06	15:20:57	9978.63	54.64
24	2001/03/06	15:21:07	9959.88	55.05	2001/03/06	15:21:38	9978.43	54.65
25	2001/03/06	15:21:47	9959.48	55.04	2001/03/06	15:22:18	9978.30	54.65
26	2001/03/06	15:22:27	9961.13	55.04	2001/03/06	15:22:58	9978.11	54.65
27	2001/03/06	15:23:08	9960.83	55.04	2001/03/06	15:23:38	9977.86	54.65
28	2001/03/06	15:23:48	9959.40	55.05	2001/03/06	15:24:17	9977.56	54.65
29	2001/03/06	15:24:28	9958.93	55.05	2001/03/06	15:24:57	9977.48	54.65
30	2001/03/06	15:25:08	9959.61	55.05	2001/03/06	15:25:37	9977.41	54.66
31	2001/03/06	15:25:47	9960.17	55.05	2001/03/06	15:26:17	9977.23	54.66
32	2001/03/06	15:26:27	9959.00	55.04	2001/03/06	15:26:57	9977.20	54.66
33	2001/03/06	15:27:07	9958.73	55.05	2001/03/06	15:27:38	9977.11	54.66
34	2001/03/06	15:27:47	9957.59	55.05	2001/03/06	15:28:18	9976.88	54.66
35	2001/03/06	15:28:27	9958.33	55.05	2001/03/06	15:28:58	9976.66	54.65
36	2001/03/06	15:29:08	9957.54	55.06	2001/03/06	15:29:38	9976.53	54.66
37	2001/03/06	15:29:48	9958.04	55.06	2001/03/06	15:30:17	9976.26	54.65
38	2001/03/06	15:30:28	9958.26	55.05	2001/03/06	15:30:57	9976.35	54.66
39	2001/03/06	15:31:08	9957.82	55.06	2001/03/06	15:31:37	9976.22	54.66
40	2001/03/06	15:31:47	9957.35	55.05	2001/03/06	15:32:17	9976.13	54.66
41	2001/03/06	15:32:27	9957.09	55.06	2001/03/06	15:32:57	9975.76	54.66
42	2001/03/06	15:33:07	9956.81	55.05	2001/03/06	15:33:38	9975.87	54.66
43	2001/03/06	15:33:47	9956.89	55.05	2001/03/06	15:34:18	9975.67	54.66
44	2001/03/06	15:34:27	9956.60	55.05	2001/03/06	15:34:58	9975.53	54.66
45	2001/03/06	15:35:08	9956.74	55.06	2001/03/06	15:35:38	9975.35	54.66
46	2001/03/06	15:35:48	9955.66	55.05	2001/03/06	15:36:18	9975.27	54.66
47	2001/03/06	15:36:28	9955.48	55.05	2001/03/06	15:36:57	9975.22	54.66

Print Filter Used: Nth Line = 4.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0103072

	75063	75063	75063	75063	75115	75115	75115	75115
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
48	2001/03/06	15:37:08	9954.51	55.05	2001/03/06	15:37:37	9974.98	54.66
49	2001/03/06	15:37:47	9954.97	55.06	2001/03/06	15:38:17	9974.85	54.66
50	2001/03/06	15:38:27	9955.43	55.06	2001/03/06	15:38:57	9974.88	54.66
51	2001/03/06	15:39:07	9955.64	55.05	2001/03/06	15:39:38	9974.73	54.66
52	2001/03/06	15:39:47	9955.33	55.06	2001/03/06	15:40:18	9974.73	54.67
53	2001/03/06	15:40:27	9955.19	55.05	2001/03/06	15:40:58	9974.43	54.66
54	2001/03/06	15:41:08	9957.08	55.06	2001/03/06	15:41:38	9974.21	54.66
55	2001/03/06	15:41:48	9955.93	55.06	2001/03/06	15:42:18	9974.28	54.66
56	2001/03/06	15:42:28	9955.96	55.05	2001/03/06	15:42:57	9974.08	54.66
57	2001/03/06	15:43:08	9956.43	55.06	2001/03/06	15:43:37	9973.88	54.66
58	2001/03/06	15:43:48	9957.27	55.06	2001/03/06	15:44:17	9973.96	54.66
59	2001/03/06	15:44:27	9956.09	55.06	2001/03/06	15:44:57	9973.76	54.66
60	2001/03/06	15:45:07	9955.58	55.06	2001/03/06	15:45:38	9973.61	54.66
61	2001/03/06	15:45:47	9956.61	55.05	2001/03/06	15:46:18	9973.53	54.66
62	2001/03/06	15:46:27	9955.99	55.05	2001/03/06	15:46:58	9973.33	54.66
63	2001/03/06	15:47:08	9956.82	55.06	2001/03/06	15:47:38	9973.08	54.66
64	2001/03/06	15:47:48	9957.20	55.05	2001/03/06	15:48:17	9973.02	54.66
65	2001/03/06	15:48:28	9955.88	55.05	2001/03/06	15:48:57	9972.84	54.65
66	2001/03/06	15:49:08	9956.11	55.05	2001/03/06	15:49:37	9972.79	54.66
67	2001/03/06	15:49:48	9958.69	55.05	2001/03/06	15:50:17	9972.74	54.66
68	2001/03/06	15:50:27	9957.89	55.06	2001/03/06	15:50:57	9972.63	54.66
69	2001/03/06	15:51:07	9956.18	55.06	2001/03/06	15:51:38	9972.29	54.65
70	2001/03/06	15:51:47	9954.67	55.05	2001/03/06	15:52:18	9972.29	54.65
71	2001/03/06	15:52:27	9955.00	55.05	2001/03/06	15:52:58	9972.03	54.65
72	2001/03/06	15:53:08	9957.16	55.05	2001/03/06	15:53:38	9972.11	54.66
73	2001/03/06	15:53:48	9954.58	55.05	2001/03/06	15:54:17	9971.90	54.65
74	2001/03/06	15:54:28	9954.63	55.06	2001/03/06	15:54:57	9971.89	54.65
75	2001/03/06	15:55:08	9954.76	55.06	2001/03/06	15:55:37	9971.63	54.65
76	2001/03/06	15:55:47	9954.75	55.06	2001/03/06	15:56:17	9971.87	54.66
77	2001/03/06	15:56:27	9954.30	55.06	2001/03/06	15:56:57	9971.49	54.65
78	2001/03/06	15:57:07	9954.52	55.05	2001/03/06	15:57:38	9971.60	54.66
79	2001/03/06	15:57:47	9954.25	55.05	2001/03/06	15:58:18	9971.59	54.66
80	2001/03/06	15:58:27	9953.70	55.05	2001/03/06	15:58:58	9971.41	54.66
81	2001/03/06	15:59:08	9953.22	55.06	2001/03/06	15:59:38	9971.31	54.65
82	2001/03/06	15:59:48	9952.80	55.06	2001/03/06	16:00:17	9971.15	54.65
83	2001/03/06	16:00:28	9952.18	55.06	2001/03/06	16:00:57	9971.03	54.65
84	2001/03/06	16:01:08	9952.64	55.06	2001/03/06	16:01:37	9970.92	54.65
85	2001/03/06	16:01:48	9953.55	55.06	2001/03/06	16:02:17	9970.98	54.66
86	2001/03/06	16:02:27	9954.13	55.05	2001/03/06	16:02:57	9970.83	54.66
87	2001/03/06	16:03:07	9954.08	55.06	2001/03/06	16:03:38	9970.72	54.66
88	2001/03/06	16:03:47	9953.42	55.06	2001/03/06	16:04:18	9970.62	54.65
89	2001/03/06	16:04:27	9953.04	55.06	2001/03/06	16:04:58	9970.53	54.66
90	2001/03/06	16:05:08	9954.10	55.05	2001/03/06	16:05:38	9970.45	54.65
91	2001/03/06	16:05:48	9952.70	55.06	2001/03/06	16:06:18	9970.39	54.65
92	2001/03/06	16:06:28	9952.11	55.06	2001/03/06	16:06:57	9970.28	54.66
93	2001/03/06	16:07:08	9952.08	55.06	2001/03/06	16:07:37	9970.19	54.65
94	2001/03/06	16:07:47	9951.98	55.06	2001/03/06	16:08:17	9970.08	54.65

Print Filter Used: Nth Line = 4.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0103072

	75063	75063	75063	75063	75115	75115	75115	75115
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
95	2001/03/06	16:08:27	9953.08	55.06	2001/03/06	16:08:57	9970.07	54.66
96	2001/03/06	16:09:07	9953.61	55.05	2001/03/06	16:09:38	9969.90	54.65
97	2001/03/06	16:09:47	9951.95	55.06	2001/03/06	16:10:18	9969.85	54.65
98	2001/03/06	16:10:27	9952.84	55.06	2001/03/06	16:10:58	9969.87	54.66
99	2001/03/06	16:11:08	9951.95	55.06	2001/03/06	16:11:38	9969.60	54.65
100	2001/03/06	16:11:48	9953.55	55.05	2001/03/06	16:12:17	9969.64	54.65
101	2001/03/06	16:12:28	9953.23	55.06	2001/03/06	16:12:57	9969.59	54.66
102	2001/03/06	16:13:08	9951.67	55.06	2001/03/06	16:13:37	9969.55	54.66
103	2001/03/06	16:13:48	9951.15	55.06	2001/03/06	16:14:17	9969.47	54.66
104	2001/03/06	16:14:27	9951.43	55.05	2001/03/06	16:14:57	9969.17	54.64
105	2001/03/06	16:15:07	9951.35	55.06	2001/03/06	16:15:38	9969.22	54.65
106	2001/03/06	16:15:47	9951.49	55.06	2001/03/06	16:16:18	9969.17	54.66
107	2001/03/06	16:16:27	9952.42	55.06	2001/03/06	16:16:58	9969.08	54.66
108	2001/03/06	16:17:08	9951.69	55.06	2001/03/06	16:17:38	9968.92	54.65
109	2001/03/06	16:17:48	9951.12	55.06	2001/03/06	16:18:17	9968.87	54.65
110	2001/03/06	16:18:28	9951.35	55.06	2001/03/06	16:18:57	9968.91	54.66
111	2001/03/06	16:19:08	9950.68	55.06	2001/03/06	16:19:37	9968.88	54.66
112	2001/03/06	16:19:47	9952.47	55.06	2001/03/06	16:20:17	9968.85	54.66
113	2001/03/06	16:20:27	9951.59	55.05	2001/03/06	16:20:57	9968.65	54.66
114	2001/03/06	16:21:07	9951.12	55.06	2001/03/06	16:21:38	9968.58	54.66
115	2001/03/06	16:21:47	9951.43	55.06	2001/03/06	16:22:18	9968.57	54.66
116	2001/03/06	16:22:27	9950.19	55.06	2001/03/06	16:22:58	9968.44	54.66
117	2001/03/06	16:23:08	9951.05	55.06	2001/03/06	16:23:38	9968.35	54.66
118	2001/03/06	16:23:48	9951.57	55.06	2001/03/06	16:24:18	9968.36	54.66
119	2001/03/06	16:24:28	9951.96	55.06	2001/03/06	16:24:57	9968.18	54.65
120	2001/03/06	16:25:08	9951.00	55.07	2001/03/06	16:25:37	9968.09	54.66
121	2001/03/06	16:25:47	9950.43	55.07	2001/03/06	16:26:17	9968.12	54.66
122	2001/03/06	16:26:27	9948.72	55.07	2001/03/06	16:26:57	9967.95	54.65
123	2001/03/06	16:27:07	9947.96	55.06	2001/03/06	16:27:38	9967.93	54.66
124	2001/03/06	16:27:47	9948.78	55.07	2001/03/06	16:28:18	9967.87	54.66
125	2001/03/06	16:28:27	9948.87	55.06	2001/03/06	16:28:58	9967.80	54.66
126	2001/03/06	16:29:08	9948.41	55.07	2001/03/06	16:29:38	9967.75	54.66
127	2001/03/06	16:29:48	9949.83	55.06	2001/03/06	16:30:17	9967.71	54.66
128	2001/03/06	16:30:28	9948.75	55.06	2001/03/06	16:30:57	9967.57	54.66
129	2001/03/06	16:31:08	9949.53	55.06	2001/03/06	16:31:37	9967.53	54.66
130	2001/03/06	16:31:48	9950.38	55.06	2001/03/06	16:32:17	9967.51	54.66
131	2001/03/06	16:32:27	9949.61	55.06	2001/03/06	16:32:57	9967.36	54.66
132	2001/03/06	16:33:07	9950.25	55.06	2001/03/06	16:33:38	9967.36	54.66
133	2001/03/06	16:33:47	9948.05	55.07	2001/03/06	16:34:18	9967.26	54.66
134	2001/03/06	16:34:27	9949.13	55.06	2001/03/06	16:34:58	9967.14	54.66
135	2001/03/06	16:35:08	9948.87	55.06	2001/03/06	16:35:38	9967.25	54.66
136	2001/03/06	16:35:48	9949.13	55.06	2001/03/06	16:36:18	9967.08	54.65
137	2001/03/06	16:36:28	9949.36	55.06	2001/03/06	16:36:57	9967.14	54.66
138	2001/03/06	16:37:08	9948.74	55.06	2001/03/06	16:37:37	9966.99	54.66
139	2001/03/06	16:37:47	9949.43	55.06	2001/03/06	16:38:17	9966.93	54.66
140	2001/03/06	16:38:27	9949.49	55.06	2001/03/06	16:38:57	9966.89	54.66
141	2001/03/06	16:39:07	9950.58	55.06	2001/03/06	16:39:38	9966.76	54.66

Print Filter Used: Nth Line = 4.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/06
Final Test Date: 2001/03/06

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0103072

	75063	75063	75063	75063	75115	75115	75115	75115
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
142	2001/03/06	16:39:47	9949.59	55.06	2001/03/06	16:40:18	9966.81	54.66
143	2001/03/06	16:40:27	9949.30	55.06	2001/03/06	16:40:58	9966.73	54.66
144	2001/03/06	16:41:08	9948.73	55.06	2001/03/06	16:41:38	9966.65	54.66
145	2001/03/06	16:41:48	9948.78	55.06	2001/03/06	16:42:17	9966.59	54.66
146	2001/03/06	16:42:28	9948.69	55.06	2001/03/06	16:42:57	9966.51	54.66
147	2001/03/06	16:43:08	9949.01	55.06	2001/03/06	16:43:37	9966.49	54.66
148	2001/03/06	16:43:48	9948.76	55.06	2001/03/06	16:44:17	9966.40	54.66
149	2001/03/06	16:44:27	9949.83	55.05	2001/03/06	16:44:57	9966.45	54.66
150	2001/03/06	16:45:07	9948.10	55.06	2001/03/06	16:45:38	9966.37	54.66
151	2001/03/06	16:45:47	9948.63	55.06	2001/03/06	16:46:18	9966.24	54.66
152	2001/03/06	16:46:27	9949.37	55.06	2001/03/06	16:46:58	9966.21	54.66
153	2001/03/06	16:47:08	9948.73	55.06	2001/03/06	16:47:38	9966.14	54.66
154	2001/03/06	16:47:48	9947.15	55.06	2001/03/06	16:48:17	9966.12	54.66
155	2001/03/06	16:48:28	9948.55	55.07	2001/03/06	16:48:57	9966.04	54.66
156	2001/03/06	16:49:08	9949.23	55.06	2001/03/06	16:49:37	9965.99	54.66
157	2001/03/06	16:49:47	9947.29	55.06	2001/03/06	16:50:17	9965.78	54.65
158	2001/03/06	16:50:27	9947.86	55.07	2001/03/06	16:50:57	9965.88	54.66
159	2001/03/06	16:51:07	9948.16	55.06	2001/03/06	16:51:38	9965.76	54.65
160	2001/03/06	16:51:47	9949.03	55.06	2001/03/06	16:52:18	9965.84	54.66
161	2001/03/06	16:52:27	9947.48	55.05	2001/03/06	16:52:58	9965.77	54.66
162	2001/03/06	16:53:08	9947.42	55.06	2001/03/06	16:53:38	9965.80	54.66
163	2001/03/06	16:53:48	9947.38	55.06	2001/03/06	16:54:18	9965.68	54.66
164	2001/03/06	16:54:28	9948.80	55.06	2001/03/06	16:54:57	9965.75	54.66
165	2001/03/06	16:55:08	9946.81	55.06	2001/03/06	16:55:37	9965.60	54.66
166	2001/03/06	16:55:47	9947.00	55.07	2001/03/06	16:56:17	9965.54	54.66
167	2001/03/06	16:56:27	9948.36	55.06	2001/03/06	16:56:57	9965.51	54.66
168	2001/03/06	16:57:07	9949.99	55.06	2001/03/06	16:57:38	9965.45	54.66
169	2001/03/06	16:57:47	9947.32	55.05	2001/03/06	16:58:18	9965.32	54.65
170	2001/03/06	16:58:27	9948.35	55.06	2001/03/06	16:58:58	9965.29	54.66
171	2001/03/06	16:59:08	9948.92	55.06	2001/03/06	16:59:38	9965.32	54.66
172	2001/03/06	16:59:48	9947.48	55.07	2001/03/06	17:00:17	9965.16	54.65
173	2001/03/06	17:00:28	9948.17	55.07	2001/03/06	17:00:57	9965.26	54.66
174	2001/03/06	17:01:08	9948.73	55.06	2001/03/06	17:01:37	9965.22	54.66
175	2001/03/06	17:01:48	9949.05	55.06	2001/03/06	17:02:17	9965.20	54.66
176	2001/03/06	17:02:27	9948.36	55.06	2001/03/06	17:02:57	9965.02	54.66
177	2001/03/06	17:03:07	9947.13	55.07	2001/03/06	17:03:38	9965.08	54.66
178	2001/03/06	17:03:47	9945.75	55.06	2001/03/06	17:04:18	9965.02	54.66
179	2001/03/06	17:04:27	9947.65	55.07	2001/03/06	17:04:58	9964.88	54.65
180	2001/03/06	17:05:08	9947.11	55.07	2001/03/06	17:05:38	9964.84	54.66
181	2001/03/06	17:05:48	9949.14	55.06	2001/03/06	17:06:18	9964.81	54.66
182	2001/03/06	17:06:28	9948.49	55.06	2001/03/06	17:06:57	9964.86	54.66
183	2001/03/06	17:07:08	9947.54	55.06	2001/03/06	17:07:37	9964.75	54.66
184	2001/03/06	17:07:47	9948.48	55.05	2001/03/06	17:08:17	9964.76	54.66
185	2001/03/06	17:08:27	9931.86	55.06	2001/03/06	17:08:57	9947.43	54.65
186			Off Bottom					

Print Filter Used: Nth Line = 4.000

PARAMOUNT RESOURCES LTD.

PARA ET AL CAMERON C-50

C-50

Flow and Build Up – Mar 14-27/2001

Static Gradient Mar 27/2001

Sulphur Point

**Test Completed By
Solid Production Services
505 – 19th Ave
Nisku, Alberta
T9E-7V9
(780) 955-7525**

GENERAL INFORMATION

Client Information:

Company: Paramount Resources Ltd.

Contact:

Phone:

Fax:

e-mail:

Site Information:

Contact:

Phone:

Fax:

e-mail:

Well Information:

Name: Para et al Cameron C-50

Operator:

Location-Downhole: C-50

Location-Surface:

Test Information:

Company: Solid Production Services Ltd.

Representative:

Supervisor:

Test Type: Flow and Build up

Job Number: 0104006

Test Unit:

Start Date: 2001/03/14

Start Time: 19:06:00

End Date: 2001/03/27

End Time: 19:29:00

Report Date: 2001/04/02

Prepared By: Ella Berscheid

Remarks:

Qualified By:

WELL INFORMATION

Well Name : Para et al Cameron C-50

Well Operator :

Well Location : C-50

Location-Surface :

Field : Cameron

Well Type : Vertical

Pool :

Formation : Sulphur Point

Perforation Type :			Producing Through : Tubing	Size	73.00 mm
Pool Datum	m	CF	Elevation Referenced From	692.70 m	KB
Datum Depth	m	CF	Elevation Referenced To	688.40 m	GL
			Offset	4.30 m	

Production Intervals

Production Interval & MPP Reference To : KB

MPP Pressure Reference : None

	From - m	To - m		Depth - m	Pressure - kPa
1.	1360.00	1362.00	1.	1361.00	
2.			2.		
3.			3.		
4.			4.		
5.			5.		
6.			6.		
7.			7.		
8.			8.		
9.			9.		
10.			10.		
11.			11.		
12.			12.		

Remarks :

	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
1	2001/03/14	19:37:58	9938.99	28.84	2001/03/14	19:37:57	9959.50	27.28
2	On Bottom							
3	2001/03/14	19:38:27	9939.76	30.14	2001/03/14	19:38:27	9960.15	28.55
4	2001/03/14	20:27:28	9949.60	52.59	2001/03/14	20:27:27	9958.78	53.56
5	2001/03/14	21:17:27	9949.30	53.55	2001/03/14	21:17:27	9959.58	54.66
6	2001/03/14	22:07:27	9949.05	53.76	2001/03/14	22:07:28	9960.10	54.91
7	2001/03/14	22:57:28	9949.12	53.85	2001/03/14	22:57:27	9960.20	54.99
8	2001/03/14	23:47:27	9949.03	53.90	2001/03/14	23:47:27	9960.67	55.05
9	2001/03/15	00:37:27	9949.06	53.93	2001/03/15	00:37:28	9960.64	55.07
10	2001/03/15	01:27:28	9948.97	53.95	2001/03/15	01:27:27	9961.17	55.11
11	2001/03/15	02:17:27	9949.11	53.98	2001/03/15	02:17:27	9961.45	55.13
12	2001/03/15	03:07:27	9949.13	53.99	2001/03/15	03:07:28	9961.47	55.14
13	2001/03/15	03:57:28	9949.31	54.00	2001/03/15	03:57:27	9961.61	55.15
14	2001/03/15	04:47:27	9949.31	54.01	2001/03/15	04:47:27	9961.82	55.16
15	2001/03/15	05:37:27	9949.51	54.02	2001/03/15	05:37:28	9961.86	55.16
16	2001/03/15	06:27:28	9949.49	54.03	2001/03/15	06:27:27	9962.15	55.18
17	2001/03/15	07:17:27	9949.52	54.03	2001/03/15	07:17:27	9962.33	55.18
18	2001/03/15	08:07:27	9949.54	54.04	2001/03/15	08:07:28	9962.39	55.19
19	2001/03/15	08:57:28	9949.65	54.04	2001/03/15	08:57:27	9962.72	55.20
20	2001/03/15	09:47:27	9949.84	54.05	2001/03/15	09:47:27	9962.76	55.20
21	2001/03/15	10:37:27	9949.89	54.06	2001/03/15	10:37:28	9962.82	55.20
22	2001/03/15	11:27:28	9949.93	54.06	2001/03/15	11:27:27	9962.93	55.21
23	2001/03/15	12:17:27	9950.03	54.07	2001/03/15	12:17:27	9963.03	55.21
24	2001/03/15	13:07:27	9950.07	54.07	2001/03/15	13:07:28	9963.07	55.21
25	2001/03/15	13:57:28	9950.18	54.07	2001/03/15	13:57:27	9963.09	55.21
26	2001/03/15	14:47:27	9950.25	54.08	2001/03/15	14:47:27	9963.09	55.22
27	2001/03/15	15:37:27	9950.27	54.08	2001/03/15	15:37:28	9963.30	55.22
28	2001/03/15	16:27:28	9950.42	54.08	2001/03/15	16:27:27	9963.26	55.22
29	2001/03/15	17:17:27	9950.49	54.09	2001/03/15	17:17:27	9963.36	55.22
30	2001/03/15	18:07:27	9950.54	54.09	2001/03/15	18:07:28	9963.36	55.22
31	2001/03/15	18:57:28	9950.61	54.09	2001/03/15	18:57:27	9963.46	55.23
32	2001/03/15	19:47:27	9950.69	54.09	2001/03/15	19:47:27	9963.55	55.23
33	2001/03/15	20:37:27	9950.83	54.10	2001/03/15	20:37:28	9963.55	55.23
34	2001/03/15	21:27:28	9950.74	54.10	2001/03/15	21:27:27	9963.69	55.24
35	2001/03/15	22:17:27	9950.92	54.10	2001/03/15	22:17:27	9963.69	55.23
36	2001/03/15	23:07:27	9951.00	54.11	2001/03/15	23:07:28	9963.75	55.24
37	2001/03/15	23:57:28	9950.95	54.10	2001/03/15	23:57:27	9963.86	55.24
38	2001/03/16	00:47:27	9951.06	54.11	2001/03/16	00:47:27	9963.90	55.24
39	2001/03/16	01:37:27	9951.15	54.11	2001/03/16	01:37:28	9963.90	55.24
40	2001/03/16	02:27:28	9951.18	54.11	2001/03/16	02:27:27	9964.02	55.24
41	2001/03/16	03:17:27	9951.23	54.11	2001/03/16	03:17:27	9964.04	55.25
42	2001/03/16	04:07:27	9951.22	54.11	2001/03/16	04:07:28	9964.11	55.25
43	2001/03/16	04:57:28	9951.31	54.12	2001/03/16	04:57:27	9964.25	55.25
44	2001/03/16	05:47:27	9951.38	54.12	2001/03/16	05:47:27	9964.25	55.25
45	2001/03/16	06:37:27	9951.39	54.12	2001/03/16	06:37:28	9964.33	55.26
46	2001/03/16	07:27:28	9951.38	54.12	2001/03/16	07:27:27	9964.29	55.25
47	2001/03/16	08:17:27	9951.53	54.13	2001/03/16	08:17:27	9964.35	55.25

Print Filter Used: Nth Line = 100.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/14
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0104006

	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
48	2001/03/16	09:07:27	9951.53	54.13	2001/03/16	09:07:28	9964.52	55.26
49	2001/03/16	09:57:28	9951.67	54.13	2001/03/16	09:57:27	9964.60	55.26
50	2001/03/16	10:47:27	9951.63	54.13	2001/03/16	10:47:27	9964.58	55.26
51	2001/03/16	11:37:27	9951.58	54.13	2001/03/16	11:37:28	9964.75	55.27
52	2001/03/16	12:05:27	9942.42	54.12	2001/03/16	12:05:27	9954.97	55.24
53	Open well							
54	2001/03/16	12:05:57	9503.85	54.09	2001/03/16	12:05:58	9559.35	55.22
55	2001/03/16	12:26:57	6982.70	48.40	2001/03/16	12:26:58	6999.95	48.76
56	2001/03/16	13:16:58	7413.55	47.30	2001/03/16	13:16:57	7433.70	48.58
57	2001/03/16	14:06:57	7441.40	47.43	2001/03/16	14:06:57	7461.32	48.46
58	2001/03/16	14:56:57	7406.02	47.27	2001/03/16	14:56:58	7425.88	48.30
59	2001/03/16	15:46:58	7407.12	47.24	2001/03/16	15:46:57	7426.88	48.27
60	2001/03/16	16:36:57	7400.79	47.21	2001/03/16	16:36:57	7420.68	48.25
61	2001/03/16	17:26:57	7397.03	47.20	2001/03/16	17:26:58	7416.90	48.23
62	2001/03/16	18:16:58	7388.79	47.17	2001/03/16	18:16:57	7408.64	48.21
63	2001/03/16	19:06:57	7388.81	47.17	2001/03/16	19:06:57	7408.53	48.20
64	2001/03/16	19:56:57	7393.14	47.19	2001/03/16	19:56:58	7412.94	48.22
65	2001/03/16	20:46:58	7397.14	47.20	2001/03/16	20:46:57	7416.90	48.23
66	2001/03/16	21:36:57	7401.58	47.23	2001/03/16	21:36:57	7421.23	48.26
67	2001/03/16	22:26:57	7409.99	47.26	2001/03/16	22:26:58	7429.76	48.30
68	2001/03/16	23:16:58	7415.92	47.28	2001/03/16	23:16:57	7435.62	48.32
69	2001/03/17	00:06:57	7420.17	47.31	2001/03/17	00:06:57	7439.79	48.34
70	2001/03/17	00:56:57	7423.90	47.34	2001/03/17	00:56:58	7443.44	48.37
71	2001/03/17	01:46:58	7430.24	47.37	2001/03/17	01:46:57	7449.93	48.40
72	2001/03/17	02:36:57	7435.89	47.40	2001/03/17	02:36:57	7455.53	48.43
73	2001/03/17	03:26:57	7436.57	47.42	2001/03/17	03:26:58	7456.27	48.45
74	2001/03/17	04:16:58	7439.73	47.44	2001/03/17	04:16:57	7459.35	48.48
75	2001/03/17	05:06:57	7442.59	47.46	2001/03/17	05:06:57	7462.13	48.49
76	2001/03/17	05:56:57	7443.68	47.48	2001/03/17	05:56:58	7463.42	48.52
77	2001/03/17	06:46:58	7445.10	47.50	2001/03/17	06:46:57	7464.90	48.54
78	2001/03/17	07:36:57	7447.13	47.51	2001/03/17	07:36:57	7466.92	48.55
79	2001/03/17	08:26:57	7450.38	47.54	2001/03/17	08:26:58	7470.01	48.57
80	2001/03/17	09:16:58	7453.21	47.56	2001/03/17	09:16:57	7472.87	48.59
81	2001/03/17	10:06:57	7454.44	47.58	2001/03/17	10:06:57	7474.01	48.62
82	2001/03/17	10:56:57	7454.75	47.60	2001/03/17	10:56:58	7474.36	48.63
83	2001/03/17	11:46:58	7458.54	47.62	2001/03/17	11:46:57	7478.04	48.65
84	2001/03/17	12:36:57	7460.10	47.63	2001/03/17	12:36:57	7479.59	48.67
85	2001/03/17	13:26:57	7467.99	47.66	2001/03/17	13:26:58	7487.61	48.71
86	2001/03/17	14:16:58	7472.52	47.70	2001/03/17	14:16:57	7492.06	48.74
87	2001/03/17	15:06:57	7472.78	47.71	2001/03/17	15:06:57	7492.32	48.75
88	2001/03/17	15:56:57	7473.20	47.73	2001/03/17	15:56:58	7492.67	48.76
89	2001/03/17	16:46:58	7472.45	47.74	2001/03/17	16:46:57	7492.01	48.78
90	2001/03/17	17:36:57	7472.23	47.75	2001/03/17	17:36:57	7491.85	48.79
91	2001/03/17	18:26:57	7470.80	47.76	2001/03/17	18:26:58	7490.27	48.80
92	2001/03/17	19:16:58	7467.66	47.77	2001/03/17	19:16:57	7487.21	48.80
93	2001/03/17	20:06:57	7467.36	47.78	2001/03/17	20:06:57	7486.93	48.82
94	2001/03/17	20:56:57	7466.21	47.79	2001/03/17	20:56:58	7485.69	48.82

Print Filter Used: Nth Line = 100.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/14
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0104006

	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
95	2001/03/17	21:46:58	7464.05	47.80	2001/03/17	21:46:57	7483.60	48.83
96	2001/03/17	22:36:57	7462.73	47.80	2001/03/17	22:36:57	7482.28	48.84
97	2001/03/17	23:26:57	7462.87	47.82	2001/03/17	23:26:58	7482.54	48.86
98	2001/03/18	00:16:58	7456.24	47.81	2001/03/18	00:16:57	7475.70	48.85
99	2001/03/18	01:06:57	7458.54	47.83	2001/03/18	01:06:57	7478.08	48.87
100	2001/03/18	01:56:57	7455.74	47.83	2001/03/18	01:56:58	7475.24	48.87
101	2001/03/18	02:46:58	7456.33	47.85	2001/03/18	02:46:57	7476.03	48.89
102	2001/03/18	03:36:57	7454.00	47.86	2001/03/18	03:36:57	7473.64	48.89
103	2001/03/18	04:26:57	7453.44	47.86	2001/03/18	04:26:58	7473.17	48.91
104	2001/03/18	05:16:58	7453.28	47.88	2001/03/18	05:16:57	7472.98	48.92
105	2001/03/18	06:06:57	7453.09	47.88	2001/03/18	06:06:57	7472.79	48.93
106	2001/03/18	06:56:57	7450.90	47.90	2001/03/18	06:56:58	7470.50	48.93
107	2001/03/18	07:46:58	7451.54	47.91	2001/03/18	07:46:57	7471.01	48.94
108	2001/03/18	08:36:57	7470.98	47.96	2001/03/18	08:36:57	7490.51	49.00
109	2001/03/18	09:26:57	7484.96	48.02	2001/03/18	09:26:58	7504.48	49.07
110	2001/03/18	10:16:58	7490.21	48.06	2001/03/18	10:16:57	7509.67	49.10
111	2001/03/18	11:06:57	7493.01	48.08	2001/03/18	11:06:57	7512.59	49.12
112	2001/03/18	11:56:57	7486.24	48.08	2001/03/18	11:56:58	7505.76	49.12
113	2001/03/18	12:46:58	7473.08	48.05	2001/03/18	12:46:57	7492.68	49.10
114	2001/03/18	13:36:57	7464.85	48.04	2001/03/18	13:36:57	7484.32	49.08
115	2001/03/18	14:26:57	7464.74	48.05	2001/03/18	14:26:58	7484.36	49.09
116	2001/03/18	15:16:58	7462.05	48.05	2001/03/18	15:16:57	7481.56	49.09
117	2001/03/18	16:06:57	7462.30	48.06	2001/03/18	16:06:57	7481.94	49.10
118	2001/03/18	16:56:57	7461.77	48.07	2001/03/18	16:56:58	7481.50	49.11
119	2001/03/18	17:46:58	7460.58	48.07	2001/03/18	17:46:57	7480.07	49.12
120	2001/03/18	18:36:57	7459.17	48.08	2001/03/18	18:36:57	7478.84	49.13
121	2001/03/18	19:26:57	7457.22	48.09	2001/03/18	19:26:58	7476.83	49.13
122	2001/03/18	20:16:58	7455.79	48.09	2001/03/18	20:16:57	7475.32	49.13
123	2001/03/18	21:06:57	7455.20	48.10	2001/03/18	21:06:57	7474.91	49.15
124	2001/03/18	21:56:57	7453.29	48.11	2001/03/18	21:56:58	7472.82	49.15
125	2001/03/18	22:46:58	7452.09	48.12	2001/03/18	22:46:57	7471.70	49.17
126	2001/03/18	23:36:57	7232.16	47.66	2001/03/18	23:36:57	7251.63	48.66
127	2001/03/19	00:26:57	7126.31	47.91	2001/03/19	00:26:58	7145.81	48.88
128	2001/03/19	01:16:58	7461.15	46.46	2001/03/19	01:16:57	7481.81	47.56
129	2001/03/19	02:06:57	6774.67	46.61	2001/03/19	02:06:57	6794.92	47.67
130	2001/03/19	02:56:57	6758.77	46.08	2001/03/19	02:56:58	6779.49	47.13
131	2001/03/19	03:46:58	6757.48	46.05	2001/03/19	03:46:57	6778.04	47.09
132	2001/03/19	04:36:57	7478.07	48.06	2001/03/19	04:36:57	7497.42	49.12
133	2001/03/19	05:26:57	7481.12	48.22	2001/03/19	05:26:58	7500.48	49.27
134	2001/03/19	06:16:58	7498.86	48.29	2001/03/19	06:16:57	7518.24	49.33
135	2001/03/19	07:06:57	7530.65	48.42	2001/03/19	07:06:57	7550.12	49.47
136	2001/03/19	07:56:57	7541.92	48.48	2001/03/19	07:56:58	7561.41	49.54
137	2001/03/19	08:46:58	7541.90	48.52	2001/03/19	08:46:57	7561.25	49.56
138	2001/03/19	09:36:57	7534.30	48.51	2001/03/19	09:36:57	7553.72	49.56
139	2001/03/19	10:26:57	7530.13	48.51	2001/03/19	10:26:58	7549.72	49.56
140	2001/03/19	11:16:58	7526.81	48.51	2001/03/19	11:16:57	7546.46	49.56
141	2001/03/19	12:06:57	7523.56	48.51	2001/03/19	12:06:57	7543.08	49.56

Print Filter Used: Nth Line = 100.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/14
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0104006

	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
142	2001/03/19	12:56:57	7521.55	48.52	2001/03/19	12:56:58	7541.03	49.57
143	2001/03/19	13:46:58	7524.09	48.54	2001/03/19	13:46:57	7543.48	49.58
144	2001/03/19	14:36:57	7525.64	48.55	2001/03/19	14:36:57	7544.94	49.59
145	2001/03/19	15:26:57	7544.62	48.61	2001/03/19	15:26:58	7564.16	49.66
146	2001/03/19	16:16:58	7543.53	48.62	2001/03/19	16:16:57	7563.03	49.67
147	2001/03/19	17:06:57	7545.50	48.63	2001/03/19	17:06:57	7564.82	49.68
148	2001/03/19	17:56:57	7547.75	48.66	2001/03/19	17:56:58	7567.15	49.70
149	2001/03/19	18:46:58	7544.86	48.66	2001/03/19	18:46:57	7564.37	49.71
150	2001/03/19	18:55:27	7547.99	48.66	2001/03/19	18:55:28	7567.43	49.71
151	Shut in well							
152	2001/03/19	18:55:58	7752.83	48.68	2001/03/19	18:55:57	7593.88	49.72
153	2001/03/19	19:36:28	9436.72	50.43	2001/03/19	19:36:27	9455.78	51.59
154	2001/03/19	20:26:27	9458.12	50.82	2001/03/19	20:26:27	9477.08	51.93
155	2001/03/19	21:16:27	9471.27	51.14	2001/03/19	21:16:28	9490.07	52.26
156	2001/03/19	22:06:28	9481.31	51.40	2001/03/19	22:06:27	9499.84	52.53
157	2001/03/19	22:56:27	9489.52	51.60	2001/03/19	22:56:27	9508.13	52.74
158	2001/03/19	23:46:27	9496.53	51.76	2001/03/19	23:46:28	9515.09	52.91
159	2001/03/20	00:36:28	9502.83	51.89	2001/03/20	00:36:27	9521.37	53.05
160	2001/03/20	01:26:27	9508.64	52.01	2001/03/20	01:26:27	9527.08	53.17
161	2001/03/20	02:16:27	9513.82	52.11	2001/03/20	02:16:28	9532.41	53.27
162	2001/03/20	03:06:28	9518.70	52.19	2001/03/20	03:06:27	9537.29	53.36
163	2001/03/20	03:56:27	9523.27	52.27	2001/03/20	03:56:27	9541.73	53.43
164	2001/03/20	04:46:27	9527.64	52.34	2001/03/20	04:46:28	9546.21	53.50
165	2001/03/20	05:36:28	9531.81	52.40	2001/03/20	05:36:27	9550.42	53.57
166	2001/03/20	06:26:27	9535.89	52.46	2001/03/20	06:26:27	9554.44	53.63
167	2001/03/20	07:16:27	9539.74	52.51	2001/03/20	07:16:28	9558.26	53.68
168	2001/03/20	08:06:28	9543.33	52.56	2001/03/20	08:06:27	9562.20	53.74
169	2001/03/20	08:56:27	9546.97	52.60	2001/03/20	08:56:27	9565.71	53.78
170	2001/03/20	09:46:27	9550.55	52.64	2001/03/20	09:46:28	9569.17	53.82
171	2001/03/20	10:36:28	9553.88	52.68	2001/03/20	10:36:27	9572.67	53.86
172	2001/03/20	11:26:27	9557.14	52.71	2001/03/20	11:26:27	9575.96	53.89
173	2001/03/20	12:16:27	9560.46	52.75	2001/03/20	12:16:28	9579.26	53.93
174	2001/03/20	13:06:28	9563.50	52.78	2001/03/20	13:06:27	9582.29	53.95
175	2001/03/20	13:56:27	9566.54	52.81	2001/03/20	13:56:27	9585.50	53.99
176	2001/03/20	14:46:27	9569.68	52.84	2001/03/20	14:46:28	9588.57	54.02
177	2001/03/20	15:36:28	9572.55	52.87	2001/03/20	15:36:27	9591.44	54.04
178	2001/03/20	16:26:27	9575.48	52.89	2001/03/20	16:26:27	9594.41	54.07
179	2001/03/20	17:16:27	9578.23	52.92	2001/03/20	17:16:28	9597.20	54.09
180	2001/03/20	18:06:28	9580.98	52.94	2001/03/20	18:06:27	9600.03	54.11
181	2001/03/20	18:56:27	9583.80	52.96	2001/03/20	18:56:27	9602.84	54.14
182	2001/03/20	19:46:27	9586.48	52.99	2001/03/20	19:46:28	9605.50	54.16
183	2001/03/20	20:36:28	9588.96	53.00	2001/03/20	20:36:27	9608.11	54.18
184	2001/03/20	21:26:27	9591.65	53.02	2001/03/20	21:26:27	9610.83	54.20
185	2001/03/20	22:16:27	9594.11	53.04	2001/03/20	22:16:28	9613.45	54.22
186	2001/03/20	23:06:28	9596.59	53.06	2001/03/20	23:06:27	9615.83	54.23
187	2001/03/20	23:56:27	9599.13	53.08	2001/03/20	23:56:27	9618.32	54.25
188	2001/03/21	00:46:27	9601.42	53.09	2001/03/21	00:46:28	9620.83	54.27

Print Filter Used: Nth Line = 100.000



	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
189	2001/03/21	01:36:28	9603.82	53.11	2001/03/21	01:36:27	9623.31	54.29
190	2001/03/21	02:26:27	9606.15	53.12	2001/03/21	02:26:27	9625.57	54.30
191	2001/03/21	03:16:27	9608.55	53.14	2001/03/21	03:16:28	9627.95	54.31
192	2001/03/21	04:06:28	9610.82	53.16	2001/03/21	04:06:27	9630.28	54.33
193	2001/03/21	04:56:27	9613.13	53.18	2001/03/21	04:56:27	9632.62	54.34
194	2001/03/21	05:46:27	9615.24	53.19	2001/03/21	05:46:28	9634.91	54.36
195	2001/03/21	06:36:28	9617.49	53.20	2001/03/21	06:36:27	9637.12	54.37
196	2001/03/21	07:26:27	9619.58	53.21	2001/03/21	07:26:27	9639.26	54.38
197	2001/03/21	08:16:27	9621.68	53.22	2001/03/21	08:16:28	9641.35	54.39
198	2001/03/21	09:06:28	9623.91	53.24	2001/03/21	09:06:27	9643.48	54.40
199	2001/03/21	09:56:27	9625.89	53.25	2001/03/21	09:56:27	9645.57	54.42
200	2001/03/21	10:46:27	9627.93	53.26	2001/03/21	10:46:28	9647.84	54.43
201	2001/03/21	11:36:28	9630.01	53.27	2001/03/21	11:36:27	9649.86	54.44
202	2001/03/21	12:26:27	9631.98	53.29	2001/03/21	12:26:27	9651.77	54.45
203	2001/03/21	13:16:27	9634.01	53.30	2001/03/21	13:16:28	9653.68	54.45
204	2001/03/21	14:06:28	9635.91	53.31	2001/03/21	14:06:27	9655.64	54.46
205	2001/03/21	14:56:27	9637.79	53.32	2001/03/21	14:56:27	9657.59	54.48
206	2001/03/21	15:46:27	9639.76	53.33	2001/03/21	15:46:28	9659.69	54.49
207	2001/03/21	16:36:28	9641.54	53.33	2001/03/21	16:36:27	9661.53	54.50
208	2001/03/21	17:26:27	9643.52	53.35	2001/03/21	17:26:27	9663.48	54.51
209	2001/03/21	18:16:27	9645.33	53.35	2001/03/21	18:16:28	9665.38	54.52
210	2001/03/21	19:06:28	9647.07	53.36	2001/03/21	19:06:27	9667.28	54.53
211	2001/03/21	20:45:57	9651.78	53.36	2001/03/21	20:44:58	9671.46	54.53
212	2001/03/21	22:25:58	9655.24	53.37	2001/03/21	22:24:57	9674.72	54.54
213	2001/03/22	00:05:57	9658.59	53.39	2001/03/22	00:04:57	9678.34	54.56
214	2001/03/22	01:45:57	9661.95	53.41	2001/03/22	01:44:58	9681.77	54.57
215	2001/03/22	03:25:58	9665.27	53.43	2001/03/22	03:24:57	9685.17	54.59
216	2001/03/22	05:05:57	9668.55	53.44	2001/03/22	05:04:57	9688.35	54.61
217	2001/03/22	06:45:57	9671.57	53.45	2001/03/22	06:44:58	9691.44	54.61
218	2001/03/22	08:25:58	9674.63	53.46	2001/03/22	08:24:57	9694.40	54.62
219	2001/03/22	10:05:57	9677.60	53.47	2001/03/22	10:04:57	9697.41	54.63
220	2001/03/22	11:45:57	9680.63	53.49	2001/03/22	11:44:58	9700.53	54.65
221	2001/03/22	13:25:58	9683.48	53.50	2001/03/22	13:24:57	9703.60	54.67
222	2001/03/22	15:05:57	9686.25	53.51	2001/03/22	15:04:57	9706.39	54.68
223	2001/03/22	16:45:57	9689.03	53.52	2001/03/22	16:44:58	9709.18	54.69
224	2001/03/22	18:25:58	9691.88	53.54	2001/03/22	18:24:57	9711.86	54.69
225	2001/03/22	20:05:57	9694.46	53.54	2001/03/22	20:04:57	9714.45	54.70
226	2001/03/22	21:45:57	9697.10	53.55	2001/03/22	21:44:58	9716.96	54.70
227	2001/03/22	23:25:58	9699.59	53.56	2001/03/22	23:24:57	9719.77	54.72
228	2001/03/23	01:05:57	9702.16	53.57	2001/03/23	01:04:57	9722.34	54.73
229	2001/03/23	02:45:57	9704.59	53.58	2001/03/23	02:44:58	9724.89	54.74
230	2001/03/23	04:25:58	9707.05	53.59	2001/03/23	04:24:57	9727.43	54.75
231	2001/03/23	06:05:57	9709.42	53.60	2001/03/23	06:04:57	9729.80	54.76
232	2001/03/23	07:45:57	9711.72	53.61	2001/03/23	07:44:58	9732.09	54.76
233	2001/03/23	09:25:58	9714.11	53.61	2001/03/23	09:24:57	9734.34	54.77
234	2001/03/23	11:05:57	9716.29	53.62	2001/03/23	11:04:57	9736.50	54.77
235	2001/03/23	12:45:57	9718.51	53.63	2001/03/23	12:44:58	9738.75	54.78

Print Filter Used: Nth Line = 100.000

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/14
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0104006

	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
236	2001/03/23	14:25:58	9720.74	53.64	2001/03/23	14:24:57	9741.05	54.79
237	2001/03/23	16:05:57	9722.87	53.64	2001/03/23	16:04:57	9743.15	54.79
238	2001/03/23	17:45:57	9724.96	53.65	2001/03/23	17:44:58	9745.36	54.81
239	2001/03/23	19:25:58	9726.99	53.66	2001/03/23	19:24:57	9747.50	54.82
240	2001/03/23	21:05:57	9729.00	53.66	2001/03/23	21:04:57	9749.48	54.82
241	2001/03/23	22:45:57	9731.08	53.67	2001/03/23	22:44:58	9751.69	54.83
242	2001/03/24	00:25:58	9732.97	53.68	2001/03/24	00:24:57	9753.63	54.84
243	2001/03/24	02:05:57	9734.82	53.68	2001/03/24	02:04:57	9755.50	54.84
244	2001/03/24	03:45:57	9736.73	53.68	2001/03/24	03:44:58	9757.43	54.84
245	2001/03/24	05:25:58	9738.72	53.70	2001/03/24	05:24:57	9759.16	54.84
246	2001/03/24	07:05:57	9740.56	53.70	2001/03/24	07:04:57	9760.92	54.84
247	2001/03/24	08:45:57	9742.28	53.71	2001/03/24	08:44:58	9762.83	54.85
248	2001/03/24	10:25:58	9744.16	53.71	2001/03/24	10:24:57	9764.59	54.86
249	2001/03/24	12:05:57	9745.99	53.72	2001/03/24	12:04:57	9766.41	54.86
250	2001/03/24	13:45:57	9747.70	53.72	2001/03/24	13:44:58	9768.11	54.87
251	2001/03/24	15:25:58	9749.33	53.73	2001/03/24	15:24:57	9769.79	54.87
252	2001/03/24	17:05:57	9750.94	53.73	2001/03/24	17:04:57	9771.67	54.89
253	2001/03/24	18:45:57	9752.66	53.74	2001/03/24	18:44:58	9773.39	54.90
254	2001/03/24	20:25:58	9754.31	53.74	2001/03/24	20:24:57	9774.97	54.90
255	2001/03/24	22:05:57	9755.74	53.74	2001/03/24	22:04:57	9776.58	54.90
256	2001/03/24	23:45:57	9757.33	53.75	2001/03/24	23:44:58	9778.12	54.91
257	2001/03/25	01:25:58	9758.83	53.75	2001/03/25	01:24:57	9779.75	54.91
258	2001/03/25	03:05:57	9760.41	53.76	2001/03/25	03:04:57	9781.21	54.91
259	2001/03/25	04:45:57	9761.89	53.76	2001/03/25	04:44:58	9782.57	54.91
260	2001/03/25	06:25:58	9763.47	53.77	2001/03/25	06:24:57	9784.17	54.92
261	2001/03/25	08:05:57	9764.92	53.77	2001/03/25	08:04:57	9785.49	54.92
262	2001/03/25	09:45:57	9766.41	53.78	2001/03/25	09:44:58	9786.94	54.92
263	2001/03/25	11:25:58	9767.72	53.78	2001/03/25	11:24:57	9788.31	54.92
264	2001/03/25	13:05:57	9769.07	53.78	2001/03/25	13:04:57	9789.70	54.93
265	2001/03/25	14:45:57	9770.55	53.79	2001/03/25	14:44:58	9791.06	54.93
266	2001/03/25	16:25:58	9771.85	53.79	2001/03/25	16:24:57	9792.43	54.93
267	2001/03/25	18:05:57	9773.20	53.80	2001/03/25	18:04:57	9793.73	54.94
268	2001/03/25	19:45:57	9774.47	53.80	2001/03/25	19:44:58	9795.05	54.94
269	2001/03/25	21:25:58	9775.76	53.80	2001/03/25	21:24:57	9796.39	54.94
270	2001/03/25	23:05:57	9777.09	53.81	2001/03/25	23:04:57	9797.59	54.94
271	2001/03/26	00:45:57	9778.35	53.81	2001/03/26	00:44:58	9799.02	54.95
272	2001/03/26	02:25:58	9779.45	53.81	2001/03/26	02:24:57	9800.48	54.97
273	2001/03/26	04:05:57	9780.74	53.82	2001/03/26	04:04:57	9801.55	54.96
274	2001/03/26	05:45:57	9782.00	53.82	2001/03/26	05:44:58	9802.91	54.97
275	2001/03/26	07:25:58	9783.06	53.82	2001/03/26	07:24:57	9804.05	54.97
276	2001/03/26	09:05:57	9784.31	53.83	2001/03/26	09:04:57	9805.31	54.98
277	2001/03/26	10:45:57	9785.33	53.83	2001/03/26	10:44:58	9806.26	54.97
278	2001/03/26	12:25:58	9786.66	53.84	2001/03/26	12:24:57	9807.46	54.98
279	2001/03/26	14:05:57	9787.61	53.83	2001/03/26	14:04:57	9808.65	54.98
280	2001/03/26	15:45:57	9788.71	53.84	2001/03/26	15:44:58	9809.75	54.98
281	2001/03/26	17:25:58	9789.82	53.84	2001/03/26	17:24:57	9810.88	54.99
282	2001/03/26	19:05:57	9790.90	53.84	2001/03/26	19:04:57	9811.91	54.99

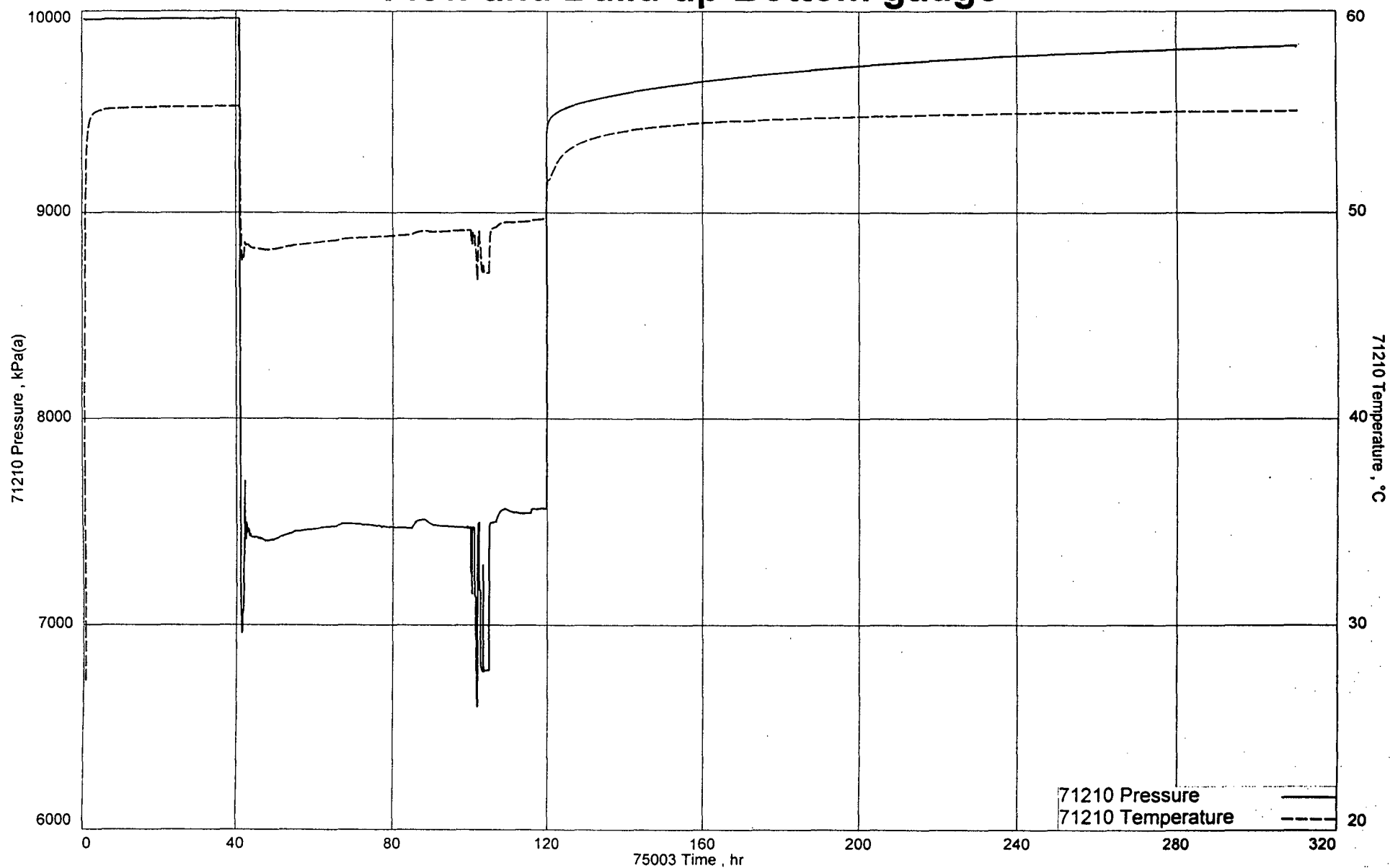
Print Filter Used: Nth Line = 100.000

	75003	75003	75003	75003	71210	71210	71210	71210
	Date	Clk Time	Pres.	Temp.	Date	Clk Time	Pres.	Temp.
	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C	yyyy/mm/dd	hh:mm:ss	kPa(a)	°C
283	2001/03/26	20:45:57	9791.96	53.84	2001/03/26	20:44:58	9812.84	54.99
284	2001/03/26	22:25:58	9792.91	53.85	2001/03/26	22:24:57	9813.93	54.99
285	2001/03/27	00:05:57	9793.99	53.85	2001/03/27	00:04:57	9815.00	54.99
286	2001/03/27	01:45:57	9795.07	53.86	2001/03/27	01:44:58	9816.05	55.00
287	2001/03/27	03:25:58	9795.96	53.86	2001/03/27	03:24:57	9816.98	54.99
288	2001/03/27	05:05:57	9796.95	53.86	2001/03/27	05:04:57	9818.01	55.00
289	2001/03/27	06:45:57	9798.01	53.86	2001/03/27	06:44:58	9818.89	55.00
290	2001/03/27	08:25:58	9798.93	53.86	2001/03/27	08:24:57	9819.80	54.99
291	2001/03/27	10:05:57	9799.88	53.87	2001/03/27	10:04:57	9820.87	55.00
292	2001/03/27	11:45:57	9800.80	53.87	2001/03/27	11:44:58	9821.85	55.00
293	2001/03/27	13:25:58	9801.70	53.87	2001/03/27	13:24:57	9822.80	55.01
294	2001/03/27	15:05:57	9802.57	53.87	2001/03/27	15:04:57	9823.72	55.01
295	2001/03/27	16:45:57	9803.54	53.88	2001/03/27	16:44:58	9824.69	55.01
296					2001/03/27	17:25:57	9824.61	55.01
297			Off Bottom					

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/14
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point
Job Number: 0104006

Flow and Build up-Bottom gauge



GENERAL INFORMATION

Client Information:

Company: Paramount Resources Ltd.

Contact:

Phone:

Fax:

e-mail:

Site Information:

Contact:

Phone:

Fax:

e-mail:

Well Information:

Name: Para et al Cameron C-50

Operator:

Location-Downhole: C-50

Location-Surface:

Test Information:

Company: Solid Production Services Ltd.

Representative:

Supervisor:

Test Type: Static Gradient

Job Number: 0104007

Test Unit:

Start Date: 2001/03/27

Start Time: 16:06:00

End Date: 2001/03/27

End Time: 19:29:00

Report Date: 2001/04/02

Prepared By: Ella Berscheid

Remarks:

Qualified By:

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/27
Final Test Date: 2001/03/27

Static Gradient Top gauge 75003

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0104007

Top

Gauge Serial Number	75003	Gauge Type	ss2500
Gauge Manufacturer	Spartek	Maximum Recorder Range	20685.00 kPa
Run Depth	1348.80000 m	Date of Last Calibration	2000/05/04
Gauge Start Date	2001/03/27 16:06:57	Gauge Stop Date	2001/03/27 19:29:00
Date Gauge On Bottom	2001/03/27 17:17:00	Date Gauge Off Bottom	2001/03/27 17:27:00

Test Data

Test/Prod Interval Top KB (TVD)	1360.00000 m	Base KB (TVD)	1362.00000 m
Pool Datum	m	Datum Depth	m
Tubing Pressure Initial	8746.00 kPa(a)	Final	kPa(a)
Casing Pressure Initial	1093.00 kPa(a)	Final	kPa(a)
Start Test Date	2001/03/27 16:06:00	Time Well Shut-In	2001/03/19 19:00:00

Depth m	Time hh:mm:ss	Duration min	Pressure kPa(a)	Gradient kPa/m	Temp. °C	Gradient °C/m
1348.80	17:24:57	78.95	9804.29	0.728	53.89	0.004
1303.80	17:31:58	7.00	9771.53	0.757	53.70	0.019
1203.80	17:40:58	9.00	9695.88	0.783	51.84	0.026
903.80	17:50:57	10.00	9460.86	0.814	43.99	0.044
603.80	18:03:57	13.00	9216.62	0.831	30.89	0.034
303.80	18:14:57	11.00	8967.24	0.891	20.83	0.042
3.80	18:27:57	13.00	8699.93		8.30	

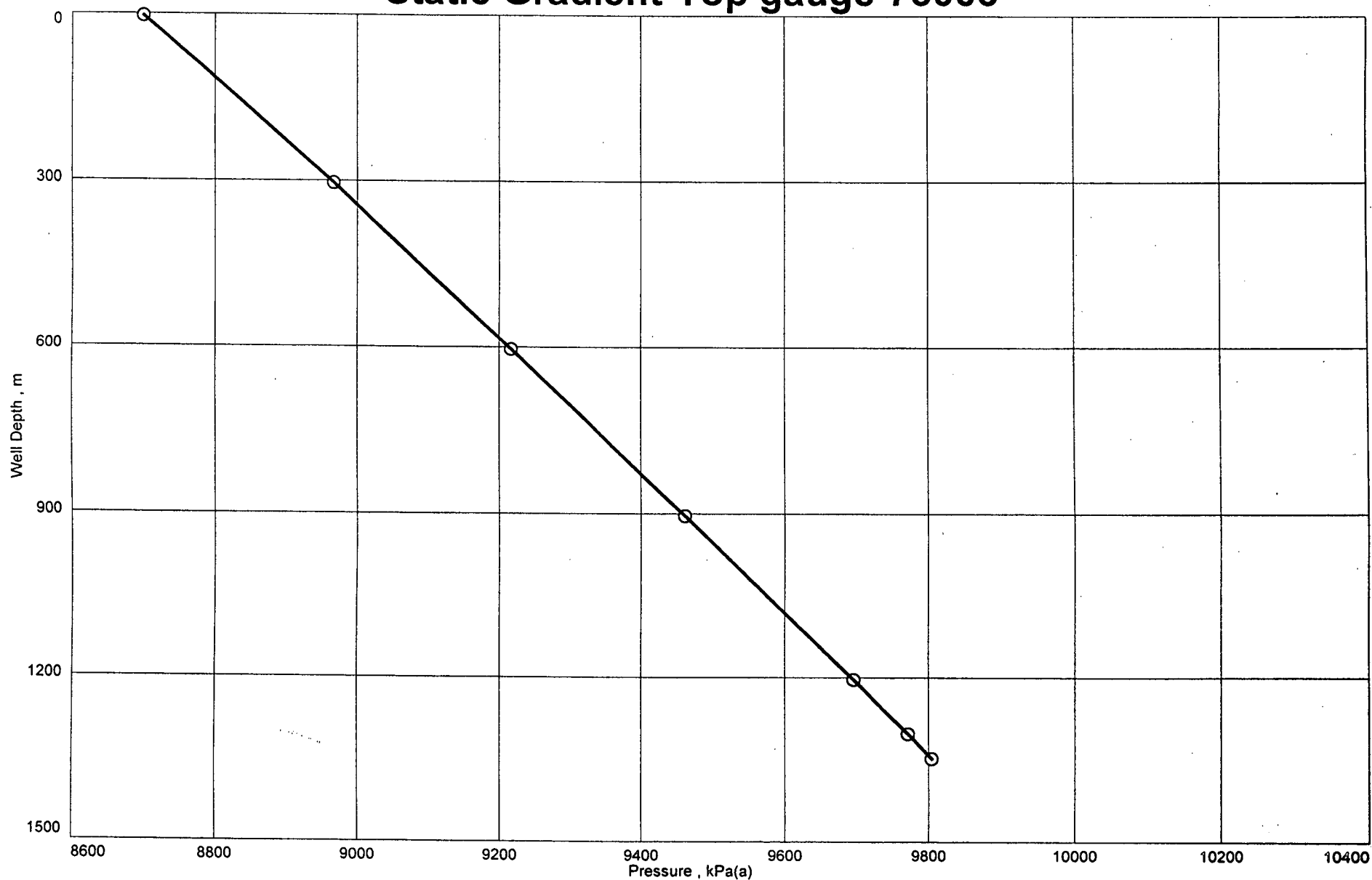
Results

Gas Gradient	0.728 kPa/m	Gas/Liquid Interface	m	kPa(a)
Liquid Gradient	kPa/m	Well Datum (MPP)	1361.00 m	9813.18 kPa(a)

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/27
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point
Job Number: 0104007

Static Gradient-Top gauge-75003



Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/27
Final Test Date: 2001/03/27

Static Gradient Bottom gauge 71210

Para et al Cameron C-50
Formation: Sulphur Point

Job Number: 0104007

Bottom

Gauge Serial Number	71210	Gauge Type	ss2500
Gauge Manufacturer	Spartek	Maximum Recorder Range	20685.00 kPa
Run Depth	1349.30000 m	Date of Last Calibration	2000/05/18
Gauge Start Date	2001/03/27 16:07:57	Gauge Stop Date	2001/03/27 19:29:00
Date Gauge On Bottom	2001/03/27 17:17:00	Date Gauge Off Bottom	2001/03/27 17:27:00

Test Data

Test/Prod Interval Top KB (TVD)	1360.00000 m	Base KB (TVD)	1362.00000 m
Pool Datum	m	Datum Depth	m
Tubing Pressure Initial	8746.00 kPa(a)	Final	kPa(a)
Casing Pressure Initial	1093.00 kPa(a)	Final	kPa(a)
Start Test Date	2001/03/27 16:06:00	Time Well Shut-In	2001/03/19 19:00:00

Depth m	Time hh:mm:ss	Duration min	Pressure kPa(a)	Gradient kPa/m	Temp. °C	Gradient °C/m
1349.30	17:24:57	78.95	9824.62		55.01	
1304.30	17:31:57	7.00	9793.19	0.698	54.83	0.004
1204.30	17:40:57	9.00	9718.60	0.746	52.91	0.019
904.30	17:51:57	11.00	9488.41	0.767	44.82	0.027
604.30	18:03:57	12.00	9249.51	0.796	32.70	0.040
304.30	18:14:58	11.00	8996.33	0.844	22.65	0.034
4.30	18:28:57	14.00	8722.68	0.912	9.01	0.045

Results

Gas Gradient	0.698 kPa/m	Gas/Liquid Interface	m	kPa(a)
Liquid Gradient	kPa/m	Well Datum (MPP)	1361.00 m	9832.79 kPa(a)

Paramount Resources Ltd.
C-50
Start Test Date: 2001/03/27
Final Test Date: 2001/03/27

Para et al Cameron C-50
Formation: Sulphur Point
Job Number: 0104007

Static Gradient-Bottom gauge 71210

