

Formation: Muskeg

Interval - from: 1,418.00 to: 1,426.00 meters

Recorder# 71233 at 1,420.00 meters

Test Date: 2003-03-02

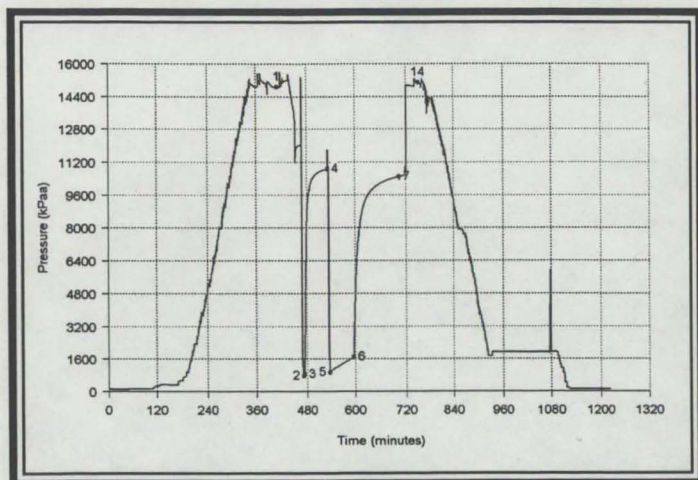
Test Type : Inflate Straddle

Blow Description:

Closed Chamber with Baker Oil Tools. Gas to surface while venting.

Remarks:

Mechanically successful test. Results suggest low permeability within the interval tested.



Max Btm Hole Temperature @ FSI: 51.3 C

	Pressure (kPaa)	Time (min)	Extrapolated Pressure (kPaa)
1 Initial Hydrostatic	14836		
2 Start of 1st Flow	732		
3 End of 1st Flow	806	2.5	
4 End of 1st Shut-in	10860	60.5	11122.4
5 Start of 2nd Flow	923		
6 End of 2nd Flow	1657	59.0	
7 End of 2nd Shut-in	10478	108.5	11099.3
14 Final Hydrostatic	15058		

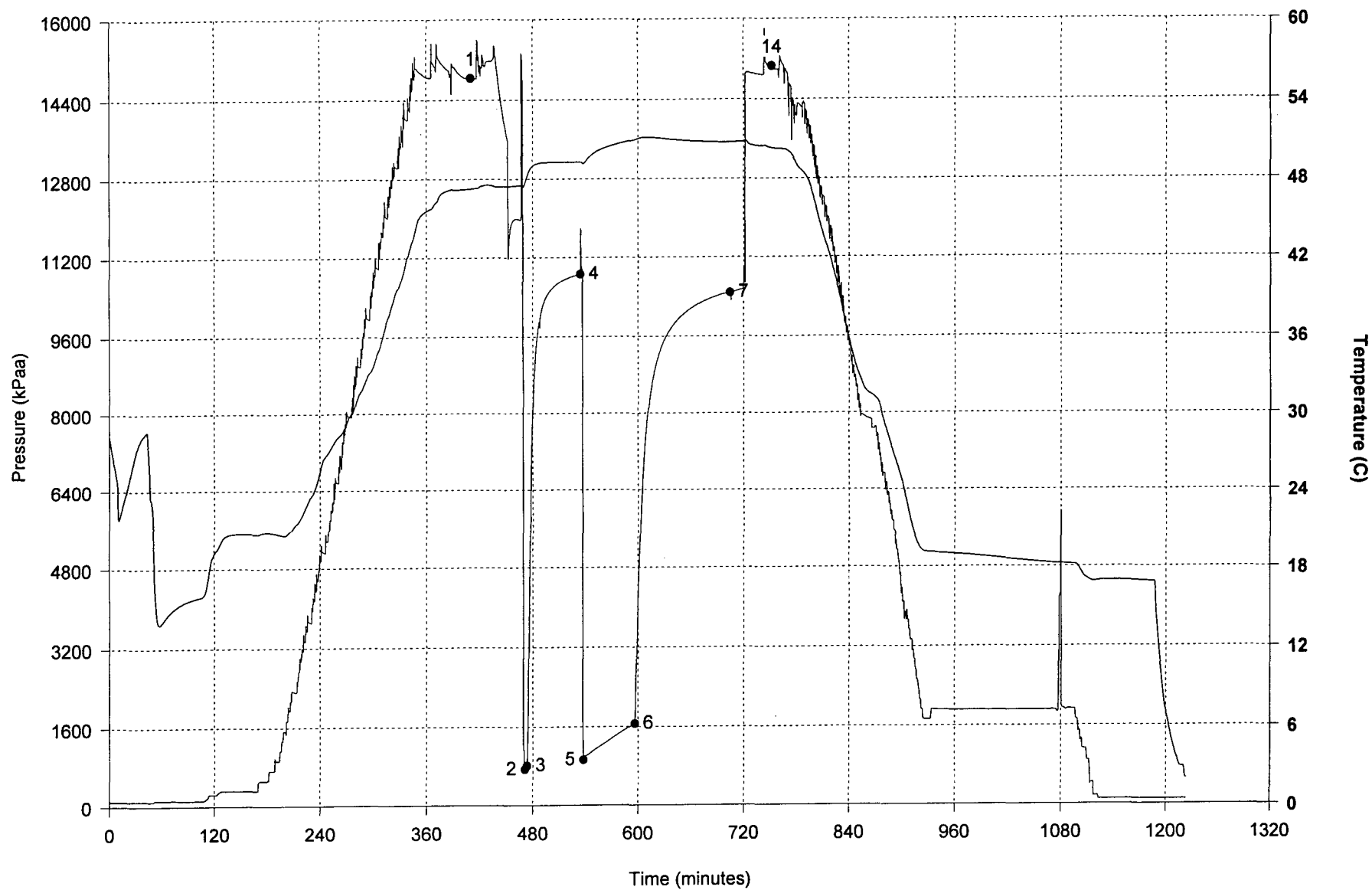
Liquid Recovery 94.00 meters

Salinity : 3 000 g/m3 Mud Tank Salinity: 1 200 g/m3

Recovery	Description
30.00 m	DRILLING FLUID
64.00 m	GAS CUT BRACKISH WATER

PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 /0
DST #: 1
Recorder: 71233

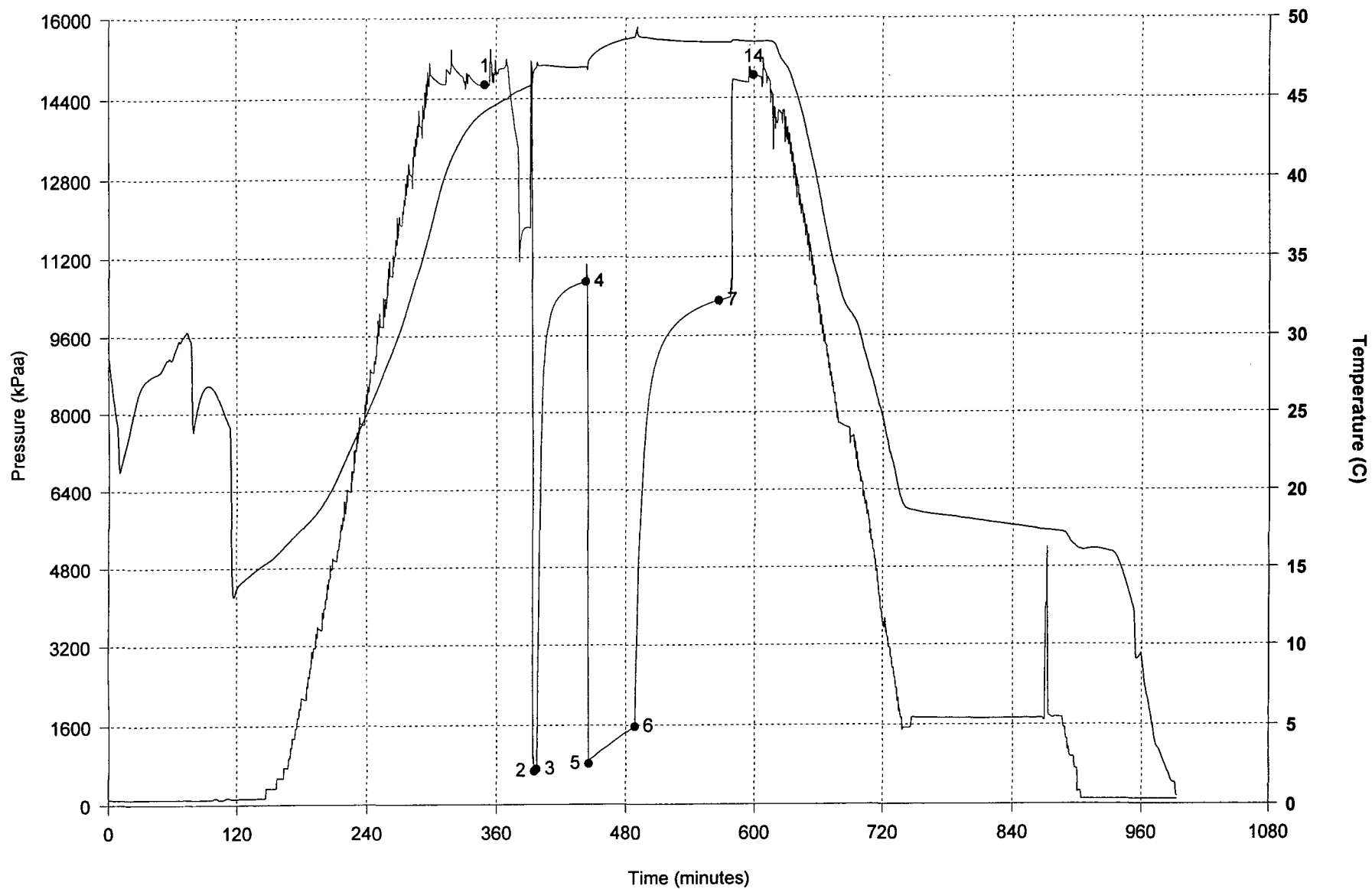
Pressure (kPaa) at Critical Points:
1: 14836 4: 10860 7: 10478
2: 732 5: 923 14: 15058
3: 806 6: 1657



PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 / 0
DST #: 1
Recorder: 75434

Pressure (kPaa) at Critical Points:
1: 14678 4: 10695 7: 10308
2: 667 5: 811 14: 14847
3: 705 6: 1567

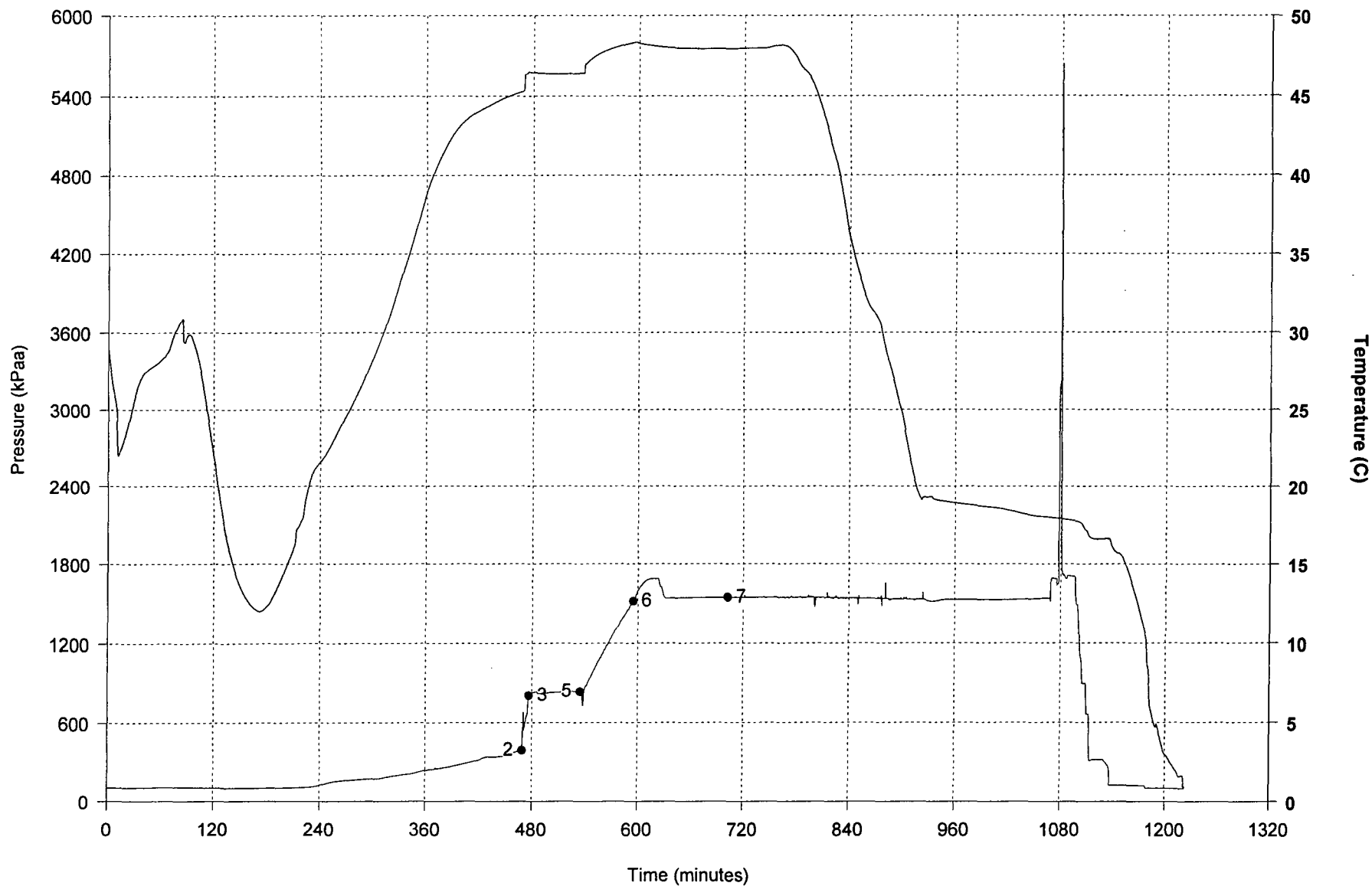
Above interval



PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 / 0
DST #: 1
Recorder: 75051

Pressure (kPaa) at Critical Points:
2: 387 6: 1514
3: 805 7: 1542
5: 835

Recovery recorder



PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 /0
DST# 1

General Information:

Operator: Paramount Resources Ltd.
4700, 888 - 3rd Street SW
Calgary Alberta T2P 5C5

Tester: Byers S

Ticket#: 815048

Reverse Circulated? N

KB Elevation: 709.23 meters

Ground Elevat'n: 704.43 meters

Total Depth: 1,505.00 meters

Mud Data:

Weight: 1080 kg/m3
Type: Gel Chemical
Viscosity: 65 s/l
Water Loss: 11.0 cc/s
Filter Cake: 2.0 mm

Hole Data:

Drilled Hole Size: 200 mm
Calipered Hole Size: 205 mm
Hole Condition at Test Time: Good
Conditioned prior to this test? Y

Recorder Summary:

Recorder#	Type	Position	Capacity	Units	Depth	Comments
75051	SPAR	Fluid Recovery	34500	kPaa	1,403.00	Recovery recorder
75434	SPAR	Inside	34500	kPaa	1,406.00	Above interval
71233	SPAR	Outside	34500	kPaa	1,420.00	

Distributions:

Reports Sent To: Drilling

Fluid Samples - no of: 5 Sent To: AGAT

Gas Bomb#	Sent To
333	AGAT

Bottom Hole Sampler#	Sent To
222	AGAT

PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 /0
DST# 1

Tool Sequence:

<i>Diagram</i>	<i>Description</i>	<i>Length</i>
	Pump Out Sub	0.33 m
	Cross Over Sub	0.30 m
	Pump Out Sub	0.83 m
	Recorder Carrier	1.50 m
	Choke Sub	0.31 m
	Hydraulic Tool	1.50 m
	Bottom Hole Sampler	1.03 m
	Recorder Carrier	1.50 m
	Real Time Gauge	6.28 m
	Hydraulic Jars	2.01 m
	Safety Joint	0.71 m
	Inflate Pump	2.38 m
	Screen	1.16 m
	Top Inflate Packer	1.78 m
	Packer Stick Down	0.82 m
	Port Sub	0.42 m
	Recorder Carrier	2.02 m
	Spacing	7.32 m
	Packer Stick Up	0.42 m
	Bottom Inflate Packer	1.90 m
	Perforations	0.62 m
	Belly Spring	2.00 m

Tool String Length:	37.14 m
Drill Collar I.D.: 58 mm	56.69 m
Drill Pipe O.D.: 114 mm	1,348.15 m
	0.00 m
Collar Pipe Total:	1,404.84 m
Stick Up:	8.46 m
Tool Above:	21.62 m
Interval Tested:	8.00 m
Bottom Hole Choke Size:	12.70 mm

PARA ET AL CAMERON M-49

00/ 60.100 / 117.300 /0

DST# 1

Recorder#75051

Build-up and Flow Curve Increments

Flow# 1

Shut-in# 1

Chart Label	Time (min)	Pressure (kPaa)	Chart Label	Time (min)	Delta P (kPaa)	Pressure (kPaa)	Abscissa (T+dT)/dT	Used for Extrap	Pressure**2 (kPaa^2/10^6)
2	0.0	732		0.0		806			
	0.5	750		2.0	1951	2757	2.2500		7.6006
	1.0	773		4.0	4905	5711	1.6250		32.6195
	1.5	786		6.0	6914	7720	1.4167		59.6039
	2.0	796		8.0	7917	8723	1.3125		76.0823
3	2.5	806		10.0	8503	9309	1.2500		86.6659
				12.0	8868	9674	1.2083		93.5936
				14.0	9100	9906	1.1786		98.1214
				16.0	9262	10068	1.1563		101.3622
				18.0	9407	10213	1.1389		104.3134
				20.0	9510	10316	1.1250		106.4276
				22.0	9590	10396	1.1136		108.0708
				24.0	9653	10459	1.1042		109.4011
				26.0	9706	10512	1.0962		110.5098
				28.0	9751	10557	1.0893		111.4493
				30.0	9789	10595	1.0833		112.2508
				32.0	9822	10628	1.0781		112.9579
				34.0	9851	10657	1.0735	*	113.5786
				36.0	9877	10683	1.0694	*	114.1242
				38.0	9900	10706	1.0658	*	114.6154
				40.0	9921	10727	1.0625	*	115.0606
				42.0	9939	10745	1.0595	*	115.4581
				44.0	9956	10762	1.0568	*	115.8231
				46.0	9971	10777	1.0543	*	116.1542
				48.0	9986	10792	1.0521	*	116.4667
				50.0	9999	10805	1.0500	*	116.7457
				52.0	10011	10817	1.0481	*	117.0073
				54.0	10022	10828	1.0463	*	117.2468
				56.0	10033	10839	1.0446	*	117.4738
				58.0	10042	10848	1.0431	*	117.6872
				60.0	10051	10857	1.0417	*	117.8777
4	60.5			60.5	10054	10860	1.0413	*	117.9301

Flow# 2

Shut-in# 2

Chart Label	Time (min)	Pressure (kPaa)	Chart Label	Time (min)	Delta P (kPaa)	Pressure (kPaa)	Abscissa (T+dT)/dT	Used for Extrap	Pressure**2 (kPaa^2/10^6)
5	0.0	923		0.0		1657			

Note: Increment listing is filtered to include critical data only. Complete time/pressure data is available in electronic or printed format.

PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 /0
DST# 1
Recorder#71233

Build-up and Flow Curve Increments

Flow# 2

Shut-in# 2

Chart Label	Time (min)	Pressure (kPaa)	Chart Label	Time (min)	Delta P (kPaa)	Pressure (kPaa)	Abscissa (T+dT)/dT	Used for Extrap	Pressure**2 (kPaa^2/10^6)
	1.5	997		2.5	1725	3382	25.6000		11.4399
	3.0	1011		5.0	3273	4930	13.3000		24.3028
	4.5	1022		7.5	4439	6096	9.2000		37.1594
	6.0	1039		10.0	5271	6928	7.1500		47.9919
	7.5	1062		12.5	5888	7545	5.9200		56.9216
	9.0	1082		15.0	6359	8016	5.1000		64.2521
	10.5	1102		17.5	6724	8381	4.5143		70.2387
	12.0	1122		20.0	7011	8668	4.0750		75.1341
	13.5	1138		22.5	7242	8899	3.7333		79.1857
	15.0	1157		25.0	7429	9086	3.4600		82.5504
	16.5	1175		27.5	7583	9240	3.2364		85.3721
	18.0	1191		30.0	7712	9369	3.0500		87.7722
	19.5	1205		32.5	7821	9478	2.8923		89.8382
	21.0	1221		35.0	7916	9573	2.7571		91.6390
	22.5	1241		37.5	7999	9656	2.6400		93.2310
	24.0	1261		40.0	8071	9729	2.5375		94.6439
	25.5	1273		42.5	8136	9793	2.4471		95.9098
	27.0	1295		45.0	8195	9852	2.3667		97.0581
	28.5	1308		47.5	8247	9904	2.2947		98.0939
	30.0	1331		50.0	8295	9952	2.2300		99.0369
	31.5	1346		52.5	8338	9995	2.1714		99.9031
	33.0	1368		55.0	8378	10035	2.1182		100.7051
	34.5	1390		57.5	8415	10072	2.0696		101.4440
	36.0	1402		60.0	8449	10106	2.0250		102.1356
	37.5	1420		62.5	8481	10138	1.9840		102.7750
	39.0	1440		65.0	8511	10168	1.9462		103.3804
	40.5	1453		67.5	8538	10195	1.9111		103.9390
	42.0	1470		70.0	8564	10221	1.8786		104.4615
	43.5	1489		72.5	8588	10245	1.8483		104.9654
	45.0	1509		75.0	8611	10268	1.8200	*	105.4278
	46.5	1520		77.5	8633	10290	1.7935	*	105.8759
	48.0	1537		80.0	8653	10310	1.7688	*	106.2975
	49.5	1555		82.5	8673	10330	1.7455	*	106.7030
	51.0	1570		85.0	8691	10348	1.7235	*	107.0799
	52.5	1590		87.5	8709	10366	1.7029	*	107.4480
	54.0	1605		90.0	8726	10383	1.6833	*	107.7973
	55.5	1619		92.5	8742	10399	1.6649	*	108.1315
	57.0	1636		95.0	8757	10414	1.6474	*	108.4510
	58.5	1651		97.5	8771	10428	1.6308	*	108.7524
6	59.0	1657		100.0	8785	10442	1.6150	*	109.0368

Note: Increment listing is filtered to include critical data only. Complete time/pressure data is available in electronic or printed format.

PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 /0
DST# 1
Recorder#71233

Build-up and Flow Curve Increments

Flow# 2

Shut-in# 2

<i>Chart Label</i>	<i>Time (min)</i>	<i>Delta P (kPaa)</i>	<i>Pressure (kPaa)</i>	<i>Abscissa (T+dT)/dT</i>	<i>Used for Extrap</i>	<i>Pressure**2 (kPaa^2/10^6)</i>
7	102.5	8798	10455	1.6000	*	109.3067
	105.0	8810	10467	1.5857	*	109.5557
	107.5	8820	10477	1.5721	*	109.7706
	108.5	8821	10478	1.5668	*	109.7823

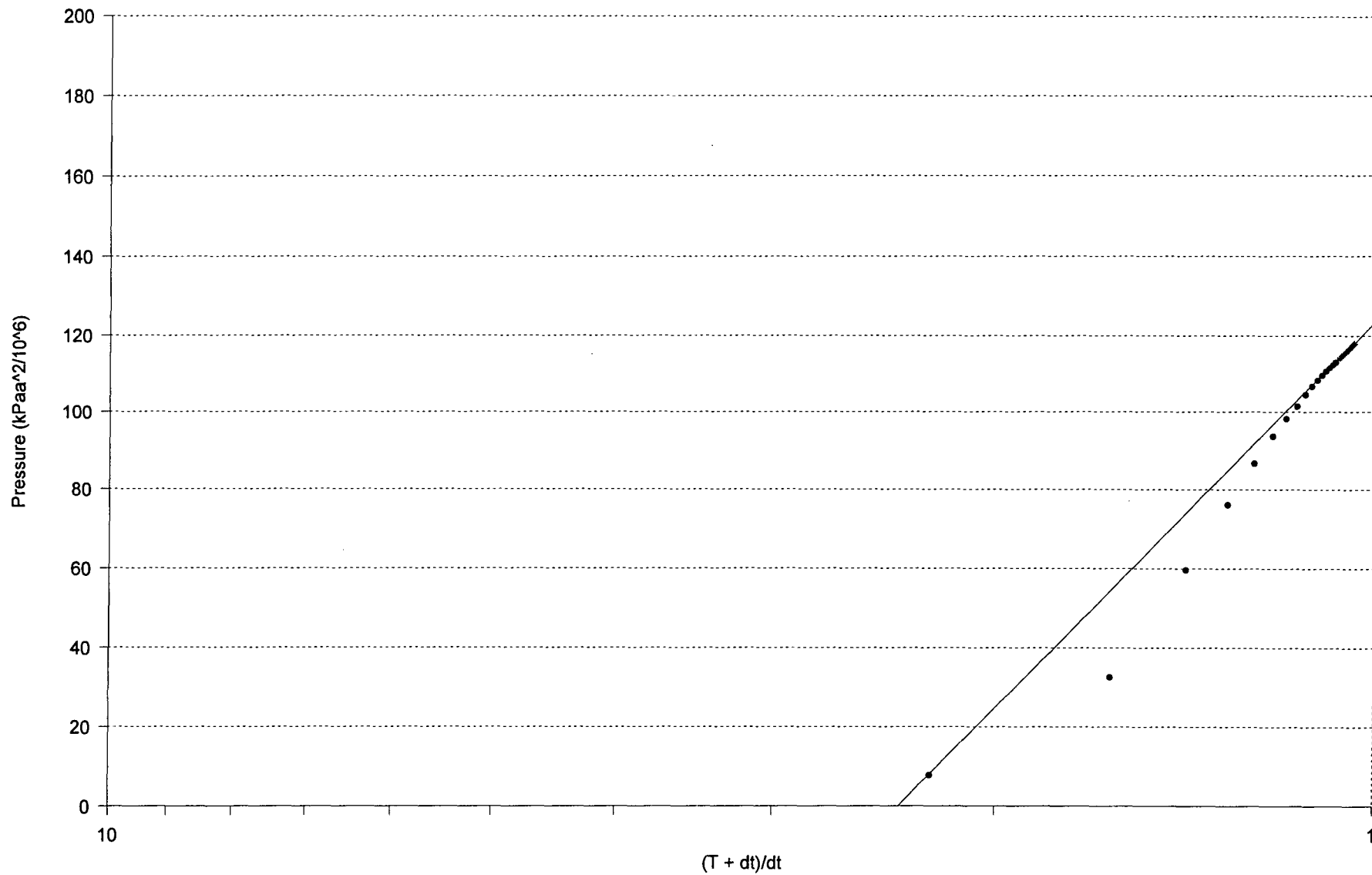
Horner Extrapolation:

<i>Shut-in#</i>	<i>Extrapolated Pressure (kPaa)</i>	<i>Extrapolated Slope ((kPaa^2/10^6)/cycle)</i>
1	11122.4	328.61236
2	11099.3	68.17826

Note: Increment listing is filtered to include critical data only. Complete time/pressure data is available in electronic or printed format.

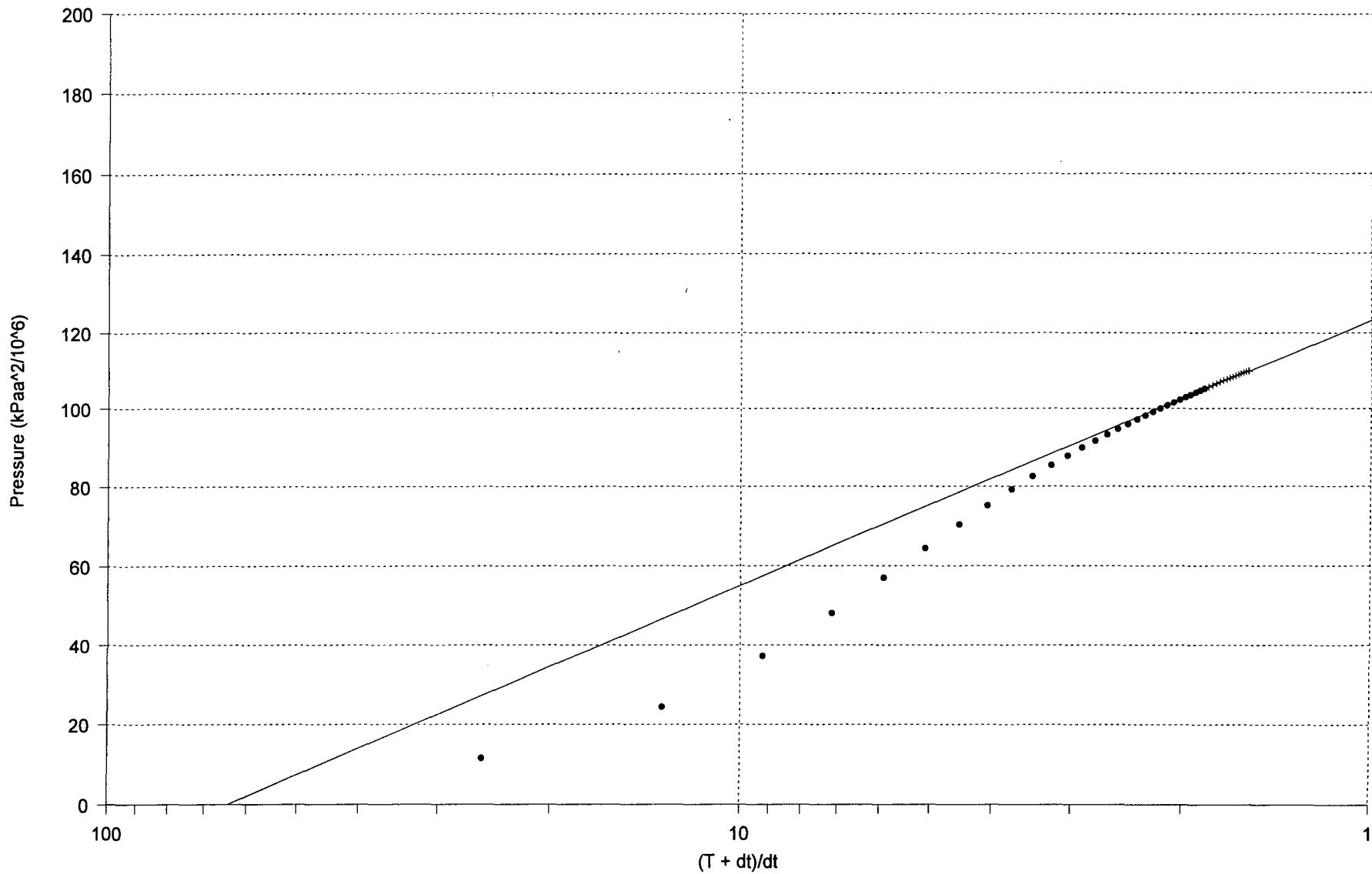
PARA ET AL CAMERON M-49
 00/60.100 / 117.300 / 0
 DST #: 1
 Recorder: 71233

Shut-in #1
 Slope = 328.61 kPaa²/10⁶/cycle
 Extrapolated Pressure = 11122.42 kPaa



PARA ET AL CAMERON M-49
 00/ 60.100 / 117.300 /0
 DST #: 1
 Recorder: 71233

Shut-in #2
 Slope = 68.18 kPaa²/10⁶/cycle
 Extrapolated Pressure = 11099.34 kPaa

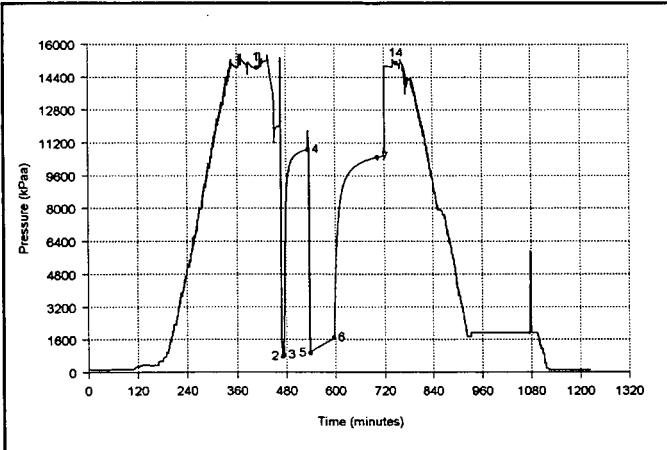


PARA ET AL CAMERON M-49
00/ 60.100 / 117.300 /0
DST# 1

Recorder# 71233

Depth: 1,420.00 m
 Temperature: 51.3 C
 Location: Outside

Recorder Type: SPAR
 Capacity: 34,500 kPaa

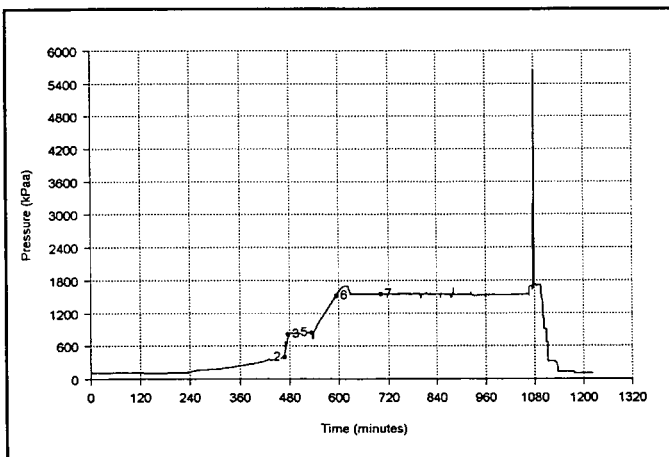


		Pressure (kPaa)	Time (min)
1	Initial Hydrostatic	14836	
2	Start of 1st Flow	732	
3	End of 1st Flow	806	2.5
4	End of 1st Shut-in	10860	60.5
5	Start of 2nd Flow	923	
6	End of 2nd Flow	1657	59.0
7	End of 2nd Shut-in	10478	108.5
14	Final Hydrostatic	15058	

Recorder# 75051

Depth: 1,403.00 m
 Temperature: 48.3 C
 Location: Fluid Recovery

Recorder Type: SPAR
 Capacity: 34,500 kPaa
 Comments: Recovery recorder



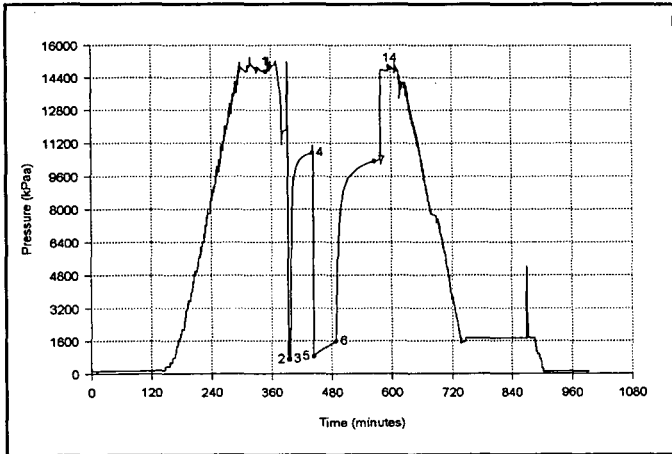
		Pressure (kPaa)	Time (min)
2	Start of 1st Flow	387	
3	End of 1st Flow	805	2.5
5	Start of 2nd Flow	835	
6	End of 2nd Flow	1514	59.0
7	End of 2nd Shut-in	1542	108.5

PARA ET AL CAMERON M-49 **00/ 60.100 / 117.300 /0** **DST# 1**

Recorder# 75434

Depth: 1,406.00 m
 Temperature: 48.5 C
 Location: Inside

Recorder Type: SPAR
 Capacity: 34,500 kPaa
 Comments: Above interval



		Pressure (kPaa)	Time (min)
1	Initial Hydrostatic	14678	
2	Start of 1st Flow	667	
3	End of 1st Flow	705	2.5
4	End of 1st Shut-in	10695	60.5
5	Start of 2nd Flow	811	
6	End of 2nd Flow	1567	59.0
7	End of 2nd Shut-in	10308	108.5
14	Final Hydrostatic	14847	



Baker Oil Tools

Closed Chamber Test Report

Prepared for: **PARAMOUNT RESOURCES**

Well Name: **PARA ET AL CAMERON M-49**

Location: **60.10/117.30**

Test Date: **Sun 02 Mar 2003**

Job Ticket #: **60-0642**

DST #: **1**



Baker Oil Tools
1300, 401 - 9th Ave. SW, Calgary, Alberta
(403) 537-3400 * <http://www.bakeroiltools.com/>

Pre-Test Plan

General Information

Baker's Ticket: 60-0642	Closed Chamber Technician: C.PETERSON
Date: Sun 02 Mar 2003	Telemetry Truck: 118
Customer: PARAMOUNT RESOURCES	Test #: 1
Well Name: PARA ET AL CAMERON M-49	Interval: 1,418.00 to 1,426.00 meters
Well Location: 60.10/117.30	Formation: MUSKEG
Well License Number: 1974	Test Type: Inflate Straddle
Customer Rep: B.NEIGUM	Hole Size: 200.000 mm
	Total Depth: 1,505 meters
Rig Name & Number: PD 117	Mud Type: GEL CHEM
Testing Company: Baker Oil Tools	Mud Weight: 1080 kg/m3
DST Supervisor: S.BYERS	Mud Viscosity: 65 l/min
DST Truck: 35019	Mud Resistivity:
	Mud Salinity:

Primary Objective of Closed Chamber: **Accuracy**

Constants Used During Pretest Planning

Surface Temp: -16.00 Celcius OR 257.15 kelvin	BottomHole Choke Size: 12.700 mm
Formation Temp: 46.00 Celcius OR 319.15 kelvin	Surface Choke Size: 12.700 mm
Average Temp: 15.00 Celcius OR 288.15 kelvin	Cushion Type: water
Compressibility: 0.90	Cushion Amount: 28.00 meters

Maximum Possible Rates

	Liquid Rate	Gas Rate	Surface Rate
Gas:	—	227,502.6 m3/d	1,420.2 kPa/min
Gas Saturated H2O:	754.1 m3/d	248.9 m3/d	6.8 kPa/min
Pure Liquid Influx:	754.1 m3/d	—	5.2 kPa/min

Chamber Volume

Drill Collar	Heavy Weight Drill Pipe	Drill Pipe
ID: 64.000 mm Length: 56.69 m	ID: Length:	ID: 97.000 mm Length: 1,348.15 m
Capacity: 0.0032 m3/m Volume: 0.1824 m3	Capacity: Volume:	Capacity: 0.0074 m3/m Volume: 9.9626 m3

Total Chamber Volume: **10.1449 cubic meters**
Minus Cushion Volume: **0.0901 cubic meters**
Net Chamber Air Volume: **10.0549 cubic meters**



Production Rates

Baker Oil Tools
1300, 401 - 9th Ave. SW, Calgary, Alberta
(403) 537-3400 * <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

Flow Rates For Liquids

1st Flow

Fluid Gradient: **10.00 kPa/meter**
Hydrostatic of produced fluid: **253.24 kPa**
Total Volume Produced: **0.08 cubic meters**
Production Rate: **21.33 cubic meters/day**

2nd Flow

Fluid Gradient: **10.00 kPa/meter**
Hydrostatic of produced fluid: **553.30 kPa**
Total Volume Produced: **0.39 cubic meters**
Production Rate: **9.40 cubic meters/day**

Flow Rates For Gases

1st Flow

Average Rate: **411 cubic meters/day**
Maximum Rate: **947 cubic meters/day**
Minimum Rate: **0 cubic meters/day**

2nd Flow

Average Rate: **289 cubic meters/day**
Maximum Rate: **625 cubic meters/day**
Minimum Rate: **0 cubic meters/day**



Summary

Baker Oil Tools
1300, 401 - 9th Ave. SW, Calgary, Alberta
(403) 537-3400 * <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

1st Flow

Time Open:	18:37:03	
Test Tool Open For:	5.50 minutes	
Total Surface Pressure:	16.00 kPa	dP/dT: 2.91 kPa/min
Hydrostatic of Produced Fluid:	253.24 kPa	dP/dT: 46.04 kPa/min

1st Shut-In

Time Closed:	18:42:33	
Pressure Vented After:	9.00 minutes	
Total Additional Surface Pressure:	1.00 kPa	dP/dT: 0.11 kPa/min

2nd Flow

Time Open:	19:43:03	
Test Tool Open For:	60.50 minutes	
Total Surface Pressure:	125.00 kPa	dP/dT: 2.07 kPa/min
Hydrostatic of Produced Fluid:	553.30 kPa	dP/dT: 9.15 kPa/min

2nd Shut-In

Time Closed:	20:43:33	
Pressure Vented After:	25.50 minutes	
Total Additional Surface Pressure:	9.00 kPa	dP/dT: 0.35 kPa/min



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Combination Flow Rates

1st Flow

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

Time hh:mm:ss	Elapsed min	Surface kPa	Recovery kPa	Liq DPDT kPa	Gas DPDT kPa/min	Gas Rate m3/day	Liq Rate m3/day	Volume m3
18:37:03	0.00	93.00	294.09					
18:37:33	0.50	94.00	381.89	0.26	1.48	235	80	0.03
18:38:03	1.00	95.00	524.93	0.43	1.14	180	132	0.07
18:38:32	1.50	96.00	585.07	0.19	1.63	257	56	0.09
18:39:02	2.00	99.00	442.56	0.00	6.01	947	0	0.09
18:39:32	2.50	101.00	461.00	0.12	3.74	589	35	0.11
18:40:02	3.00	103.00	497.43	0.26	3.49	548	73	0.13
18:40:32	3.50	105.00	517.07	0.14	3.74	586	38	0.14
18:41:02	4.00	106.00	535.32	0.14	1.73	270	37	0.16
18:41:32	4.50	108.00	548.53	0.09	3.83	598	24	0.16
18:42:03	5.00	108.00	565.47	0.14	0.00	0	36	0.18
18:42:33	5.50	109.00	563.33	0.00	2.00	312	0	0.18



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Combination Flow Rates

2nd Flow

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

Time hh:mm:ss	Elapsed min	Surface kPa	Recovery kPa	Liq DPDT kPa	Gas DPDT kPa/min	Gas Rate m3/day	Liq Rate m3/day	Volume m3
19:43:03	0.00	93.00	750.92					
19:43:32	0.50	95.00	746.89	0.00	4.00	625	0	0.18
19:44:02	1.00	96.00	742.82	0.00	2.00	312	0	0.18
19:44:33	1.50	98.00	741.62	0.00	3.98	622	0	0.18
19:45:03	2.00	99.00	633.28	0.00	2.00	312	0	0.18
19:45:33	2.50	100.00	727.75	0.70	0.61	94	199	0.25
19:46:03	3.00	101.00	634.88	0.00	2.00	310	0	0.25
19:46:33	3.50	102.00	697.30	0.47	1.06	164	131	0.29
19:47:03	4.00	103.00	742.27	0.34	1.32	203	94	0.32
19:47:33	4.50	104.00	765.56	0.17	1.64	252	47	0.34
19:48:03	5.00	105.00	772.25	0.05	1.92	295	12	0.34
19:48:32	5.50	106.00	781.27	0.06	1.88	288	17	0.35
19:49:03	6.00	107.00	785.40	0.03	1.94	298	7	0.35
19:49:33	6.50	108.00	787.66	0.01	1.98	304	3	0.35
19:50:03	7.00	109.00	791.94	0.03	1.94	298	7	0.36
19:50:32	7.50	110.00	801.34	0.07	1.86	286	18	0.36
19:51:03	8.00	111.00	808.38	0.05	1.89	289	13	0.37
19:51:33	8.50	112.00	813.63	0.04	1.94	296	9	0.37
19:52:02	9.00	113.00	822.92	0.07	1.87	286	18	0.38
19:52:33	9.50	114.00	829.15	0.05	1.90	290	11	0.38
19:53:03	10.00	115.00	836.34	0.05	1.89	289	13	0.38
19:53:32	10.50	116.00	844.70	0.06	1.88	286	16	0.39
19:54:03	11.00	117.00	850.03	0.04	1.92	292	9	0.39
19:54:33	11.50	118.00	860.96	0.09	1.82	278	21	0.40
19:55:03	12.00	119.00	871.03	0.08	1.84	281	19	0.41
19:55:33	12.50	120.00	874.73	0.02	1.94	296	6	0.41
19:56:03	13.00	121.00	880.06	0.04	1.93	294	9	0.41
19:56:33	13.50	122.00	889.09	0.07	1.85	282	17	0.42
19:57:03	14.00	123.00	897.37	0.07	1.86	284	16	0.42
19:57:33	14.50	124.00	903.79	0.05	1.89	288	11	0.43



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Combination Flow Rates

2nd Flow

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

Time hh:mm:ss	Elapsed min	Surface kPa	Recovery kPa	Liq DPDT kPa	Gas DPDT kPa/min	Gas Rate m3/day	Liq Rate m3/day	Volume m3
19:58:03	15.00	125.00	913.55	0.08	1.84	280	19	0.43
19:58:32	15.50	126.00	912.83	0.00	2.00	305	0	0.43
19:59:02	16.00	127.00	921.89	0.08	1.85	280	17	0.44
19:59:33	16.50	128.00	930.29	0.07	1.85	281	16	0.45
20:00:03	17.00	129.00	937.30	0.06	1.89	286	13	0.45
20:00:33	17.50	130.00	943.61	0.05	1.89	287	11	0.45
20:01:02	18.00	131.00	945.29	0.01	1.99	302	1	0.45
20:01:32	18.50	132.00	960.14	0.14	1.72	261	29	0.47
20:02:03	19.00	133.00	955.84	0.00	1.99	301	0	0.47
20:02:33	19.50	134.00	972.60	0.16	1.68	254	34	0.48
20:03:03	20.00	135.00	975.17	0.02	1.97	298	3	0.48
20:03:33	20.50	136.00	980.94	0.05	1.90	288	10	0.48
20:04:02	21.00	137.00	980.37	0.00	2.00	303	0	0.48
20:04:33	21.50	138.00	993.32	0.13	1.75	264	25	0.49
20:05:03	22.00	139.00	997.80	0.04	1.92	291	7	0.49
20:05:33	22.50	140.00	1,002.78	0.04	1.91	288	8	0.50
20:06:03	23.00	141.00	1,004.62	0.01	1.99	300	2	0.50
20:06:33	23.50	142.00	1,011.20	0.06	1.87	283	12	0.50
20:07:03	24.00	143.00	1,022.90	0.12	1.77	267	23	0.51
20:07:33	24.50	144.00	1,020.90	0.00	2.00	302	0	0.51
20:08:03	25.00	145.00	1,035.41	0.15	1.70	256	29	0.52
20:08:32	25.50	147.00	1,030.95	0.00	4.00	603	0	0.52
20:09:03	26.00	148.00	1,046.77	0.17	1.66	249	31	0.53
20:09:33	26.50	149.00	1,051.41	0.04	1.92	289	8	0.53
20:10:02	27.00	149.00	1,058.54	0.08	0.00	0	15	0.54
20:10:32	27.50	151.00	1,056.95	0.00	4.00	602	0	0.54
20:11:02	28.00	152.00	1,068.70	0.13	1.75	262	23	0.55
20:11:32	28.50	153.00	1,073.88	0.05	1.90	286	9	0.55
20:12:03	29.00	154.00	1,081.47	0.08	1.83	276	14	0.55
20:12:33	29.50	155.00	1,091.40	0.11	1.79	268	19	0.56
20:13:03	30.00	156.00	1,088.22	0.00	2.00	300	0	0.56



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Combination Flow Rates

2nd Flow

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

Time hh:mm:ss	Elapsed min	Surface kPa	Recovery kPa	Liq DPDT kPa	Gas DPDT kPa/min	Gas Rate m3/day	Liq Rate m3/day	Volume m3
20:13:32	30.50	157.00	1,095.77	0.08	1.85	277	14	0.56
20:14:03	31.00	158.00	1,101.02	0.05	1.88	283	9	0.57
20:14:33	31.50	159.00	1,106.09	0.05	1.90	286	9	0.57
20:15:02	32.00	160.00	1,112.75	0.07	1.86	279	12	0.57
20:15:33	32.50	161.00	1,118.71	0.06	1.87	280	11	0.58
20:16:03	33.00	162.00	1,125.45	0.07	1.86	278	12	0.58
20:16:33	33.50	163.00	1,134.79	0.11	1.79	267	18	0.59
20:17:03	34.00	163.00	1,135.42	0.01	0.00	0	1	0.59
20:17:33	34.50	165.00	1,142.19	0.06	3.88	580	10	0.59
20:18:03	35.00	166.00	1,142.44	0.00	2.00	299	0	0.59
20:18:32	35.50	167.00	1,159.40	0.21	1.59	238	34	0.60
20:19:03	36.00	168.00	1,161.31	0.01	1.97	294	2	0.61
20:19:33	36.50	169.00	1,162.99	0.01	1.99	297	1	0.61
20:20:03	37.00	170.00	1,172.50	0.11	1.77	265	18	0.61
20:20:33	37.50	171.00	1,180.36	0.09	1.82	271	15	0.62
20:21:03	38.00	172.00	1,183.29	0.03	1.94	290	4	0.62
20:21:33	38.50	173.00	1,189.67	0.07	1.86	277	11	0.62
20:22:03	39.00	174.00	1,199.91	0.13	1.75	261	20	0.63
20:22:33	39.50	175.00	1,202.53	0.02	1.95	291	3	0.63
20:23:02	40.00	176.00	1,205.50	0.03	1.95	291	4	0.63
20:23:33	40.50	178.00	1,209.20	0.02	3.94	586	4	0.63
20:24:02	41.00	179.00	1,219.71	0.13	1.74	259	20	0.64
20:24:33	41.50	180.00	1,225.05	0.06	1.87	279	9	0.64
20:25:03	42.00	181.00	1,229.49	0.05	1.90	283	7	0.65
20:25:32	42.50	182.00	1,230.63	0.00	2.00	298	0	0.65
20:26:03	43.00	183.00	1,241.34	0.14	1.71	255	21	0.65
20:26:33	43.50	184.00	1,247.41	0.07	1.86	276	11	0.66
20:27:03	44.00	185.00	1,252.24	0.06	1.89	280	8	0.66
20:27:32	44.50	186.00	1,257.03	0.06	1.89	281	8	0.66
20:28:03	45.00	187.00	1,267.04	0.13	1.73	257	19	0.67
20:28:33	45.50	188.00	1,270.67	0.04	1.92	284	6	0.67



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Combination Flow Rates

2nd Flow

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**

Time hh:mm:ss	Elapsed min	Surface kPa	Recovery kPa	Liq DPDT kPa	Gas DPDT kPa/min	Gas Rate m3/day	Liq Rate m3/day	Volume m3
20:29:03	46.00	189.00	1,276.44	0.07	1.86	276	10	0.68
20:29:33	46.50	190.00	1,282.25	0.07	1.85	275	10	0.68
20:30:03	47.00	191.00	1,282.72	0.00	2.00	297	0	0.68
20:30:33	47.50	192.00	1,292.95	0.14	1.72	255	20	0.69
20:31:03	48.00	193.00	1,293.86	0.00	2.00	296	0	0.69
20:31:33	48.50	194.00	1,302.55	0.12	1.76	261	16	0.69
20:32:03	49.00	195.00	1,306.06	0.04	1.93	285	5	0.69
20:32:32	49.50	196.00	1,311.28	0.06	1.88	278	9	0.70
20:33:02	50.00	197.00	1,316.12	0.06	1.88	278	8	0.70
20:33:32	50.50	198.00	1,326.28	0.14	1.72	254	20	0.71
20:34:03	51.00	199.00	1,328.15	0.01	1.96	290	2	0.71
20:34:33	51.50	200.00	1,333.02	0.06	1.88	278	8	0.71
20:35:03	52.00	201.00	1,338.91	0.08	1.84	272	10	0.71
20:35:32	52.50	202.00	1,347.78	0.13	1.76	259	17	0.72
20:36:03	53.00	203.00	1,348.38	0.00	1.99	294	0	0.72
20:36:33	53.50	204.00	1,359.68	0.17	1.67	247	22	0.73
20:37:02	54.00	205.00	1,356.88	0.00	2.00	295	0	0.73
20:37:32	54.50	206.00	1,358.56	0.01	1.98	292	1	0.73
20:38:03	55.00	207.00	1,365.89	0.10	1.79	263	13	0.73
20:38:33	55.50	208.00	1,377.88	0.18	1.64	242	23	0.74
20:39:02	56.00	209.00	1,381.47	0.04	1.92	283	6	0.74
20:39:33	56.50	210.00	1,391.75	0.15	1.68	247	20	0.75
20:40:03	57.00	211.00	1,393.94	0.02	1.97	289	3	0.75
20:40:33	57.50	212.00	1,392.71	0.00	2.00	293	0	0.75
20:41:03	58.00	213.00	1,393.92	0.00	2.00	294	0	0.75
20:41:33	58.50	214.00	1,409.68	0.25	1.50	221	31	0.76
20:42:02	59.00	215.00	1,412.61	0.03	1.94	285	4	0.76
20:42:33	59.50	216.00	1,420.06	0.11	1.77	260	14	0.77
20:43:03	60.00	217.00	1,420.60	0.00	2.00	294	0	0.77
20:43:33	60.50	218.00	1,429.22	0.13	1.74	255	16	0.77



Surface Pressure

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Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

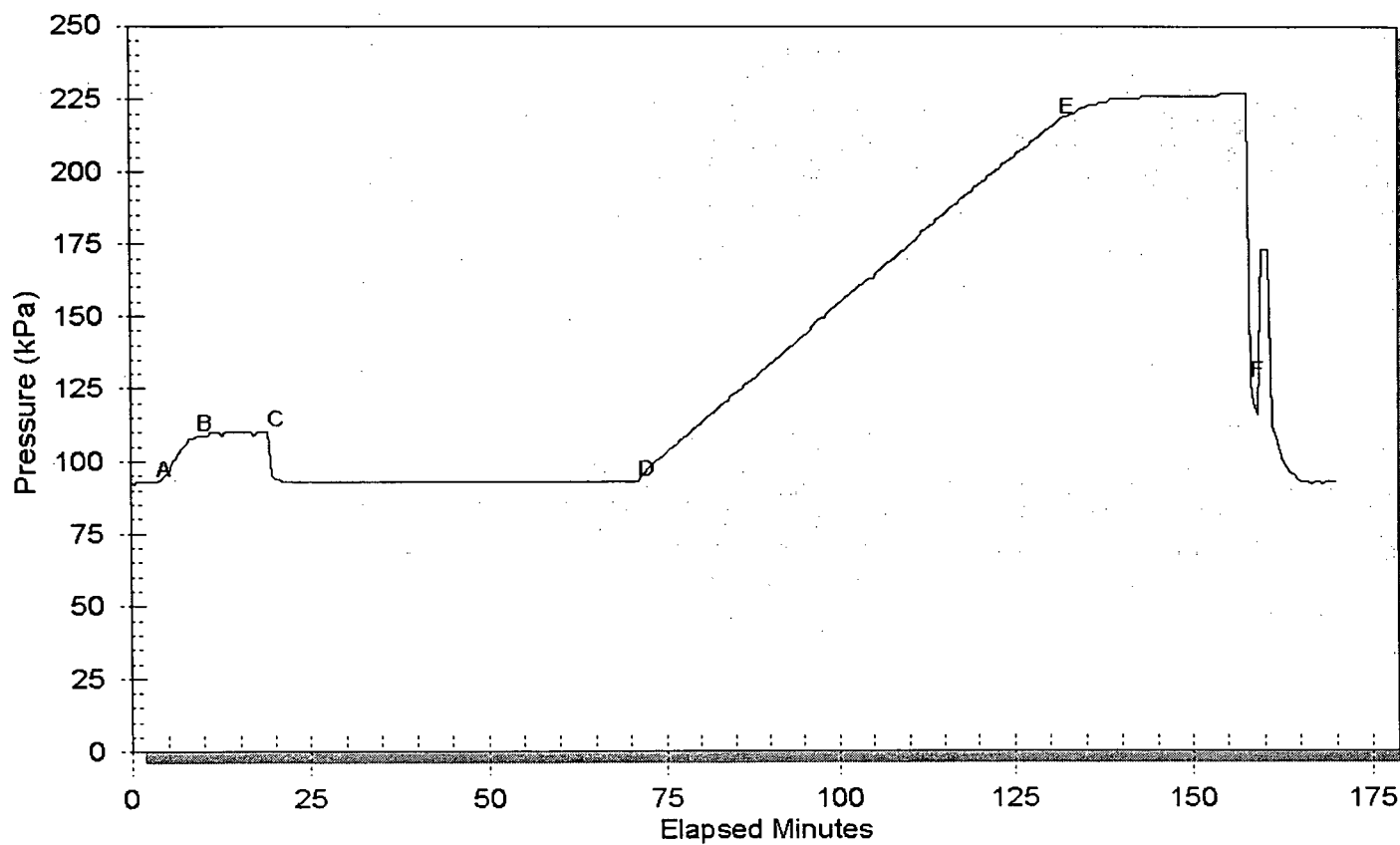
Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**



- A Start of 1st Flow
- B End of 1st Flow
- C Start of 1st Bleed-Off
- D Start of 2nd Flow
- E End of 2nd Flow
- F Start of 2nd Bleed-Off



Recovery Pressure

Baker Oil Tools
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(403) 537-3400 * <http://www.bakeroiltools.com/>

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

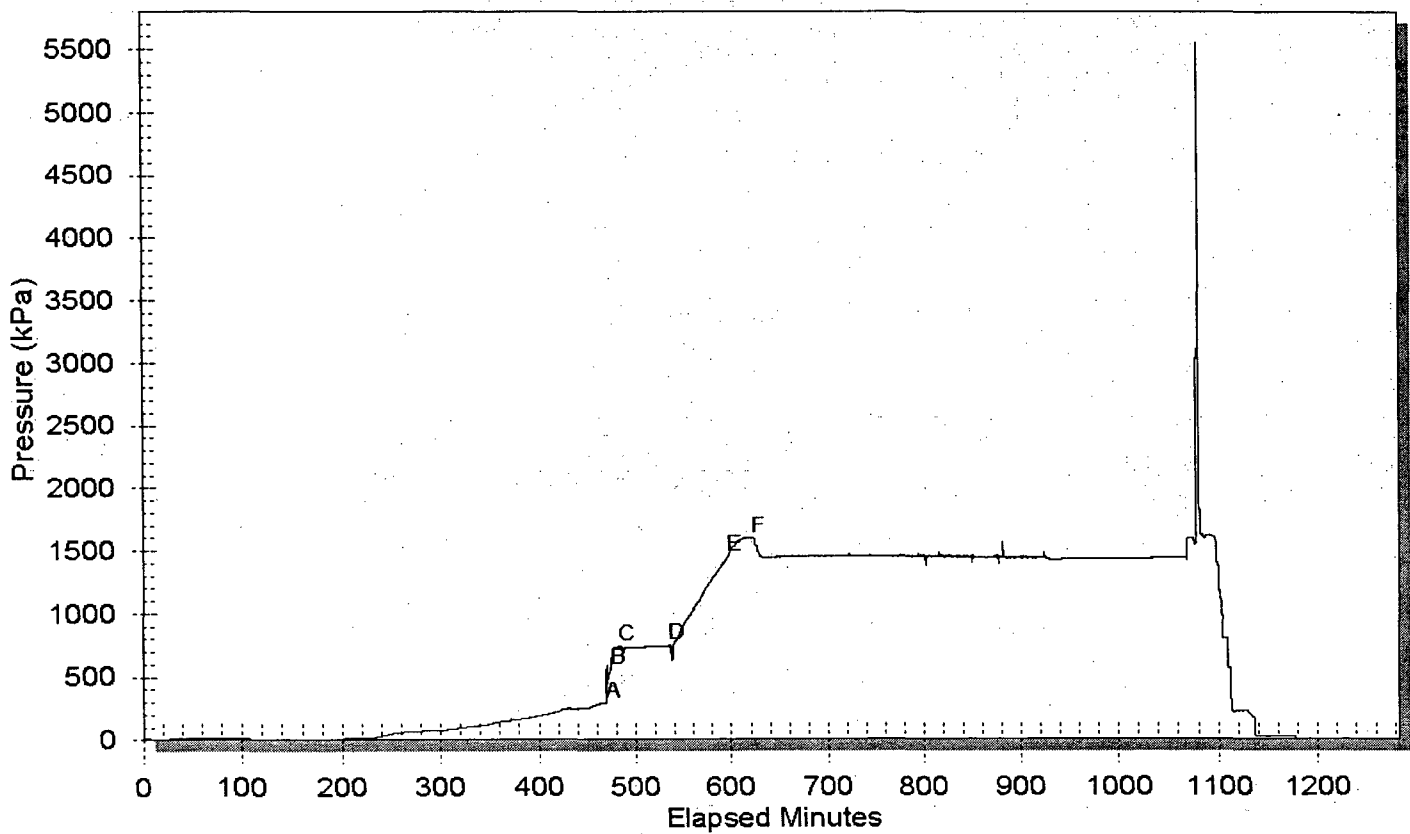
Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**



- A Start of 1st Flow
- B End of 1st Flow
- C Start of 1st Bleed-Off
- D Start of 2nd Flow
- E End of 2nd Flow
- F Start of 2nd Bleed-Off



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Combination Flow Rates

1st Flow

Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

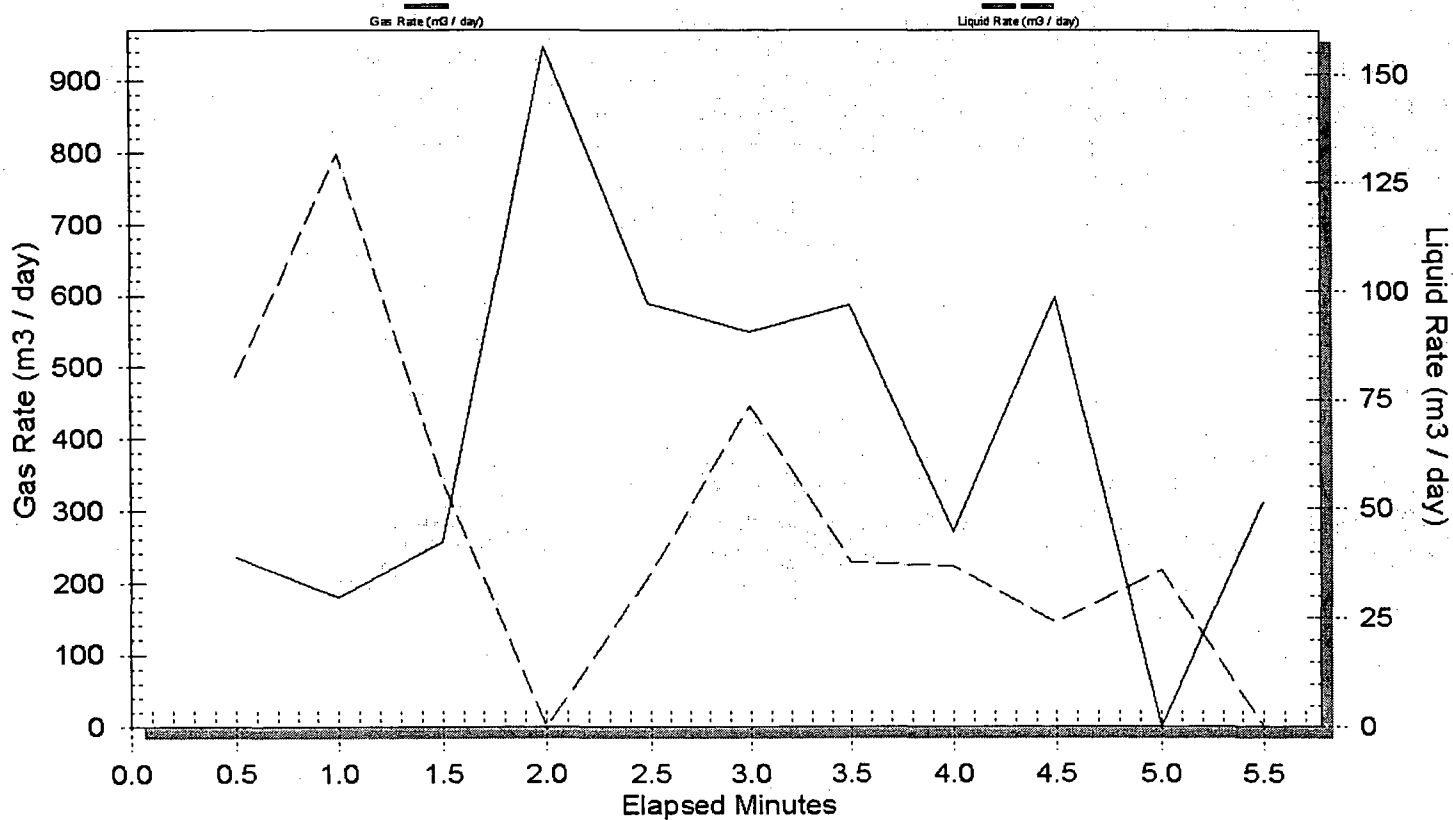
Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**





Combination Flow Rates

2nd Flow

Baker Oil Tools
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Baker's Ticket: **60-0642**

Date: **Sun 02 Mar 2003**

Customer: **PARAMOUNT RESOURCES**

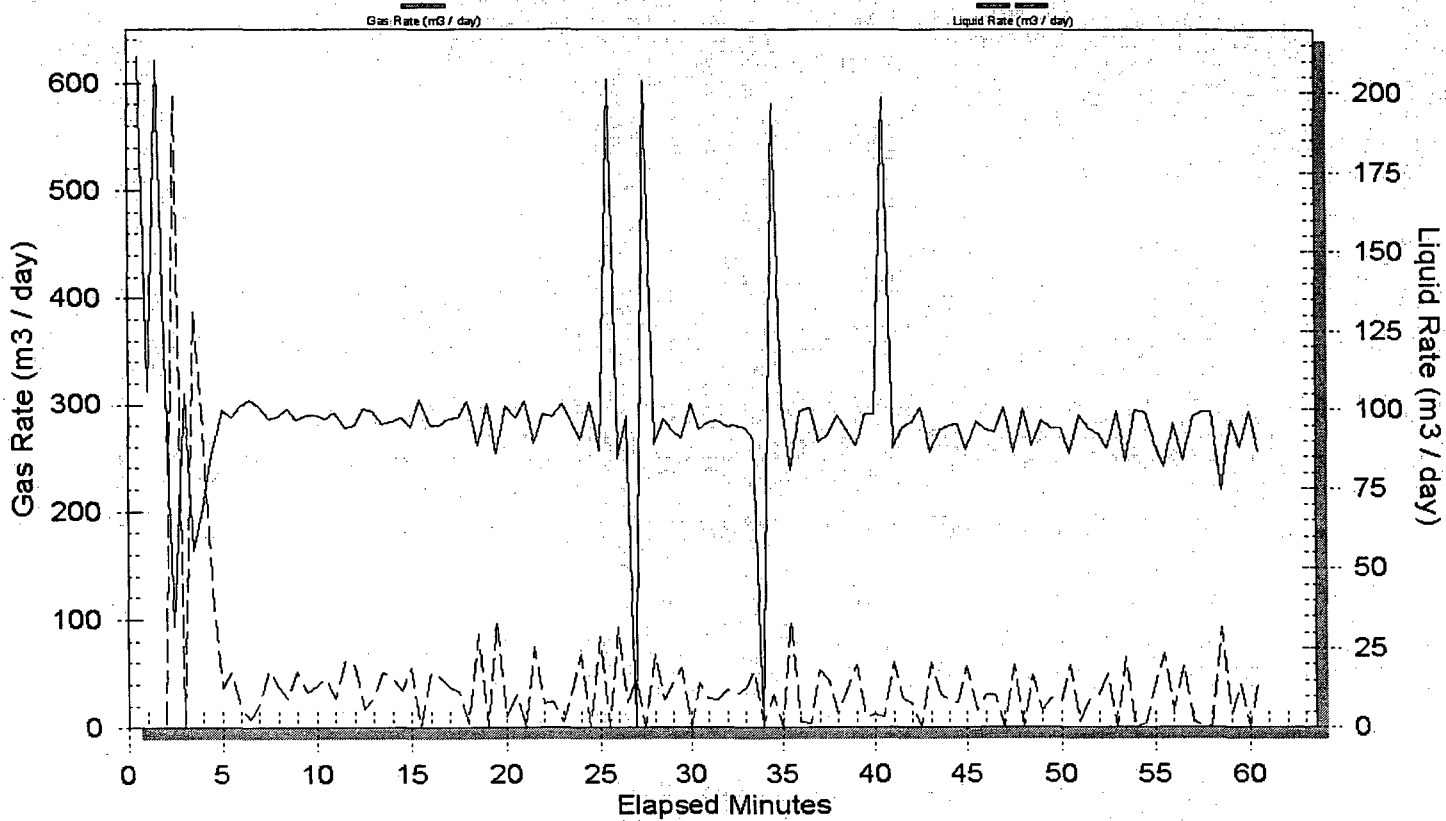
Test #: **1**

Well Name: **PARA ET AL CAMERON M-49**

Interval: **1,418.00 to 1,426.00 meters**

Well Location: **60.10/117.30**

Formation: **MUSKEG**



PARA ET AL CAMERON M-49 - REAL TIME TEST **BAKER HUGHES** **60.10/117.30** **DST# 1**

Baker Oil Tools

Formation: MUSKEG
Interval - from: 1418.00 to: 1426.00 m

Recorder# 932 at 1405.00 m

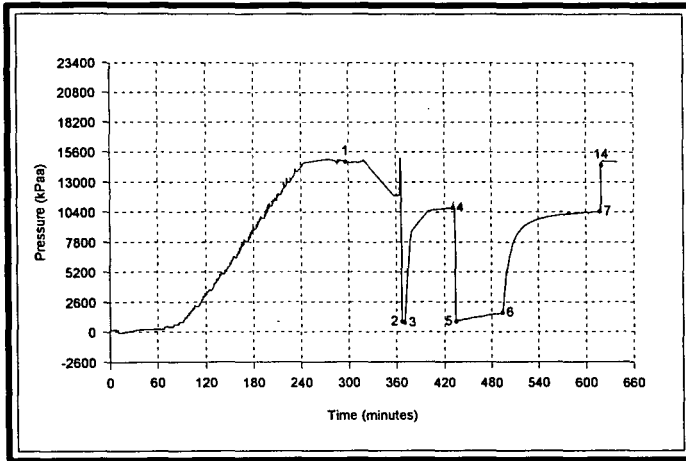
Test Date: 2003-03-02
Test Type: INFLATE STRADDLE
Tester Name: C.PETERSON
Drill Pipe O.D.: 114.00 mm
Drill Collar I.D.: 64.00 mm
Drill Collar Length: 56.68 m
Hole Size: 200.00 mm

Blow Description:

Closed Chamber with Baker Oil Tools. Gas to surface while venting.

Remarks:

Mechanically successful test. Results suggest low permeability within the interval tested.



Maximum Btm Hole Temperature @ FSI: 48.4 C

	Pressure (kPaa)	Time (min)	Extrapolated Pressure (kPaa)
1 Initial Hydrostatic	14742		
2 Start of 1st Flow	874		
3 End of 1st Flow	757	3.5	
4 End of 1st Shut-in	10730	61.4	10975.2
5 Start of 2nd Flow	869		
6 End of 2nd Flow	1639	59.0	
7 End of 2nd Shut-in	10435	123.5	10955.5
14 Final Hydrostatic	14424		

Liquid Recovery of 94.00 m

Recovery	Description	Salinity
30.00 m	DRILLING FLUID	
64.00 m	GAS CUT BRACKISH WATER	3000

PARA ET AL CAMERON M-49
60.10/117.30
DST #: 1
Recorder: 932

Pressure (kPaa) at Critical Points:
1: 14742 4: 10730 7: 10435
2: 874 5: 869 14: 14424
3: 757 6: 1639

