

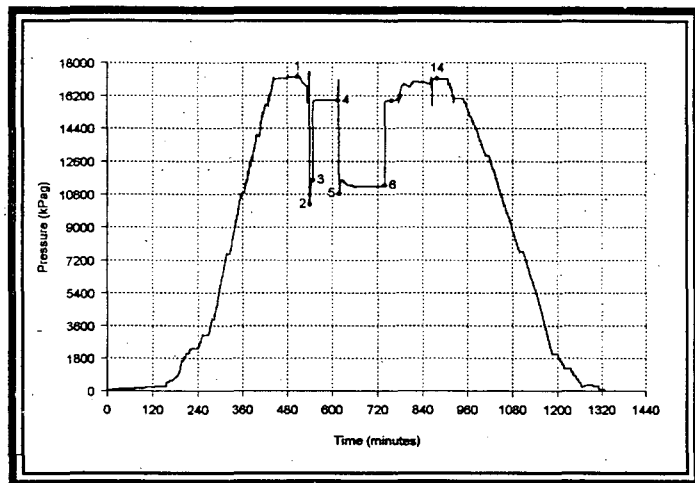


PARAMOUNT ET AL LIARD F-36 00/ 60.091 / 123.367 /0 DST# 4

Baker Oil Tools

Formation: Mattson
Interval - from: 1,559.70 to: 1,565.60 meters

Recorder# N2 at 1,562.70 meters



Max Btm Hole Temperature @ FSI: 57.4 C

		Pressure (kPag)	Time (min)	Extrapolated Pressure (kPag)
1	Initial Hydrostatic	17181		
2	Start of 1st Flow	10237		
3	End of 1st Flow	11536	8.5	
4	End of 1st Shut-in	15911	67.0	15911.2
5	Start of 2nd Flow	10817		
6	End of 2nd Flow	11273	121.0	
7	End of 2nd Shut-in	15902	19.5	15927.2
14	Final Hydrostatic	17096		

Liquid Recovery 0.00 meters

Recovery	Description
0.00 m	No fluid recovery

Test Date: 1998-12-29
Test Type : Inflate Bottom Hole

Blow Description:

PREFLOW: Strong air blow in 10 seconds. Gas to surface in 80 seconds increasing throughout.

FINAL FLOW: Strong air blow immediately with gas to surface immediately.

Remarks:

Results suggest high permeability within the interval tested. Lost the packer seat 19.5 minutes into the final shut-in. Attempted to reset the packer with no success. Reservoir calculations were done using the supplied net pay of 3 meters and porosity of 10%. The calculations shown an extremely large skin and damage ratio. Non ideal flow such as partial penetration and/or turbulence will show up as damage.

Gas Measured with Floor Manifold

Flow#	Time (min)	Surface Choke (mm)	Surface Pressure (kPag)	Gas Rate (m3/day)
2	10	19.07	3300	210 108
2	20	19.07	3350	213 345
2	30	19.07	3350	213 345
2	40	19.07	3400	216 586
2	50	19.07	3500	223 080
2	60	19.07	3500	223 080
2	70	19.07	3500	223 080
2	80	19.07	3500	223 080
2	90	19.07	3500	223 080
2	100	19.07	3500	223 080
2	110	19.07	3500	223 080
2	120	19.07	3500	223 080

PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 /0
DST# 4

General Information:

Operator: Paramount Resources Ltd.
4000, 350 - 7th Avenue S.W.
Calgary Alberta T2P 3W5

Licence#: 1841

Tester: Willis K

Ticket#: 808827

Reverse Circulated? N

KB Elevation: 469.40 meters

Ground Elevat'n: 381.00 meters

Total Depth: 1,565.60 meters

Mud Data:

Weight: 1090 kg/m3

Type: Invert

Viscosity: 52 s/l

Hole Data:

Drilled Hole Size: 156 mm

Hole Condition at Test Time: Fair

Conditioned prior to this test? Y

Recorder Summary:

Recorder#	Type	Position	Capacity	Units	Depth	Comments
M27	ZI	Inside	68900	kPag	1,543.70	Recovery recorder Above interval
N4	ZI	Inside	68900	kPag	1,547.70	
13832	K-3	Outside	19300	kPag	1,562.70	
N2	ZI	Outside	68900	kPag	1,562.70	

Distributions:

Reports Sent To: Wayne Tomm

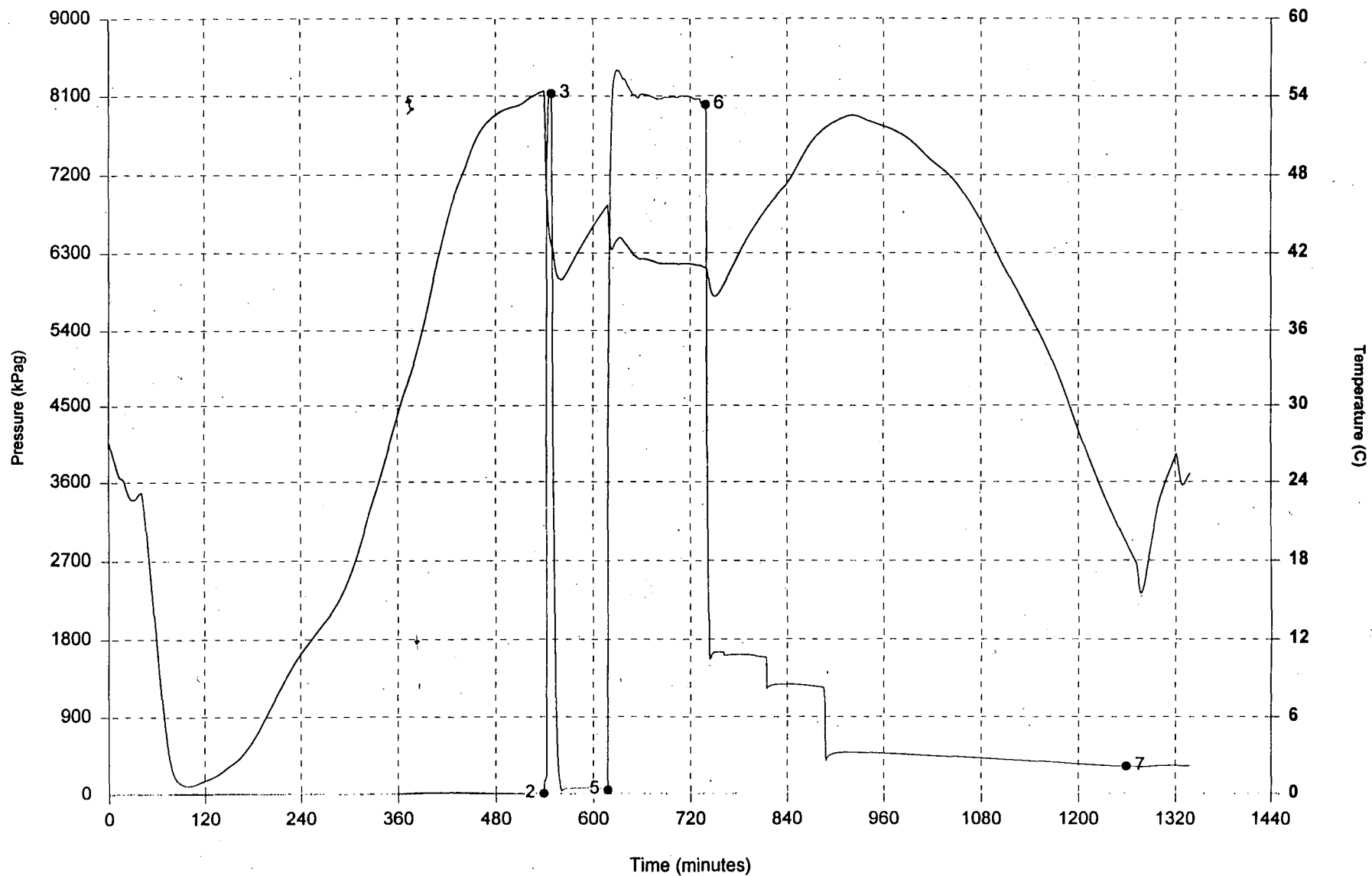
Gas Bomb#	Sent To
30545	AGAT
30768	AGAT

Bottom Hole Sampler#	Sent To
Yes	AGAT

PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 / 0
DST #: 4
Recorder: M27

Pressure (kPag) at Critical Points:
2: 3 6: 7995
3: 8123 7: 326
5: 50

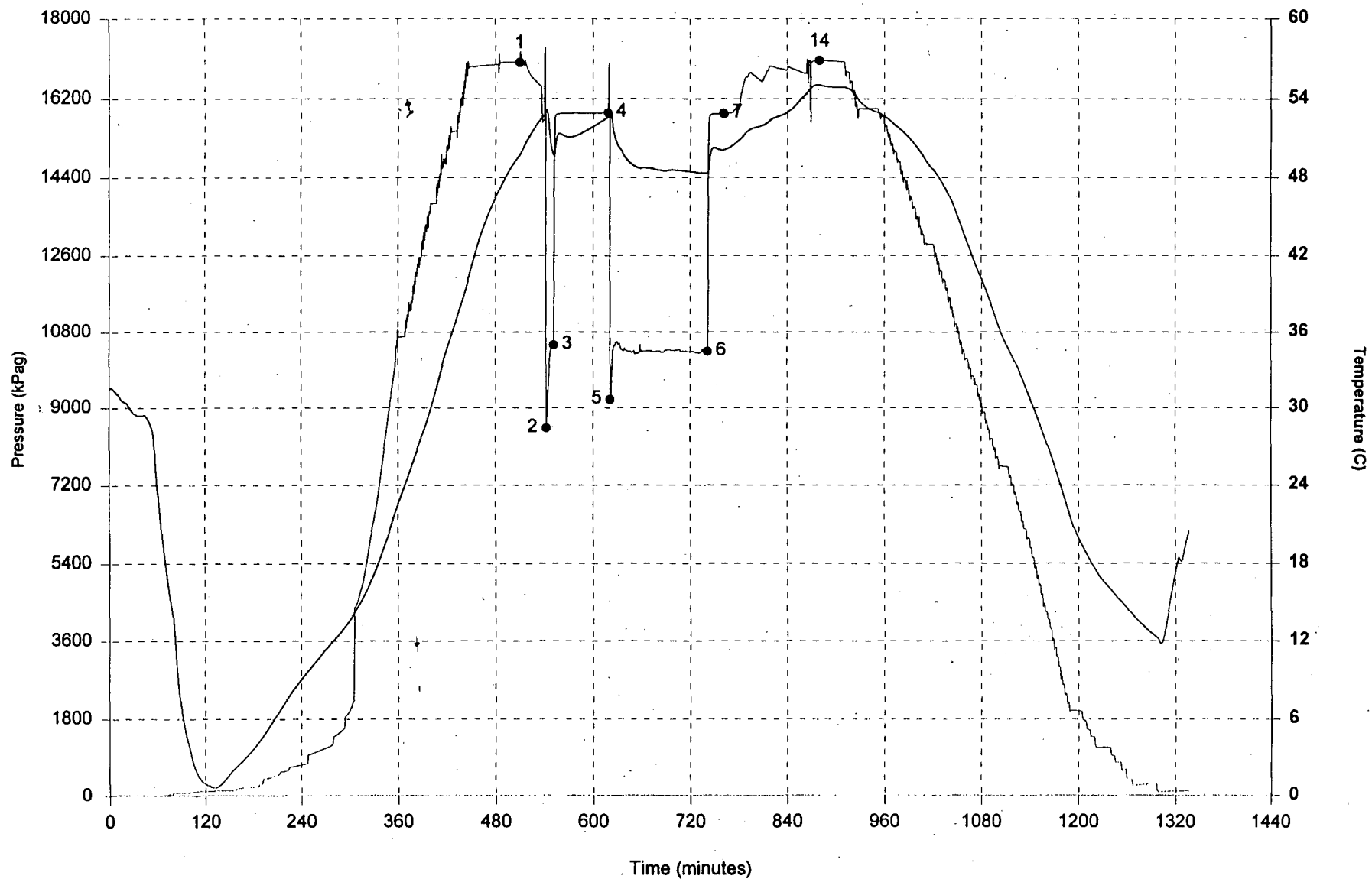
Recovery recorder



PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 / 0
DST #: 4
Recorder: N4

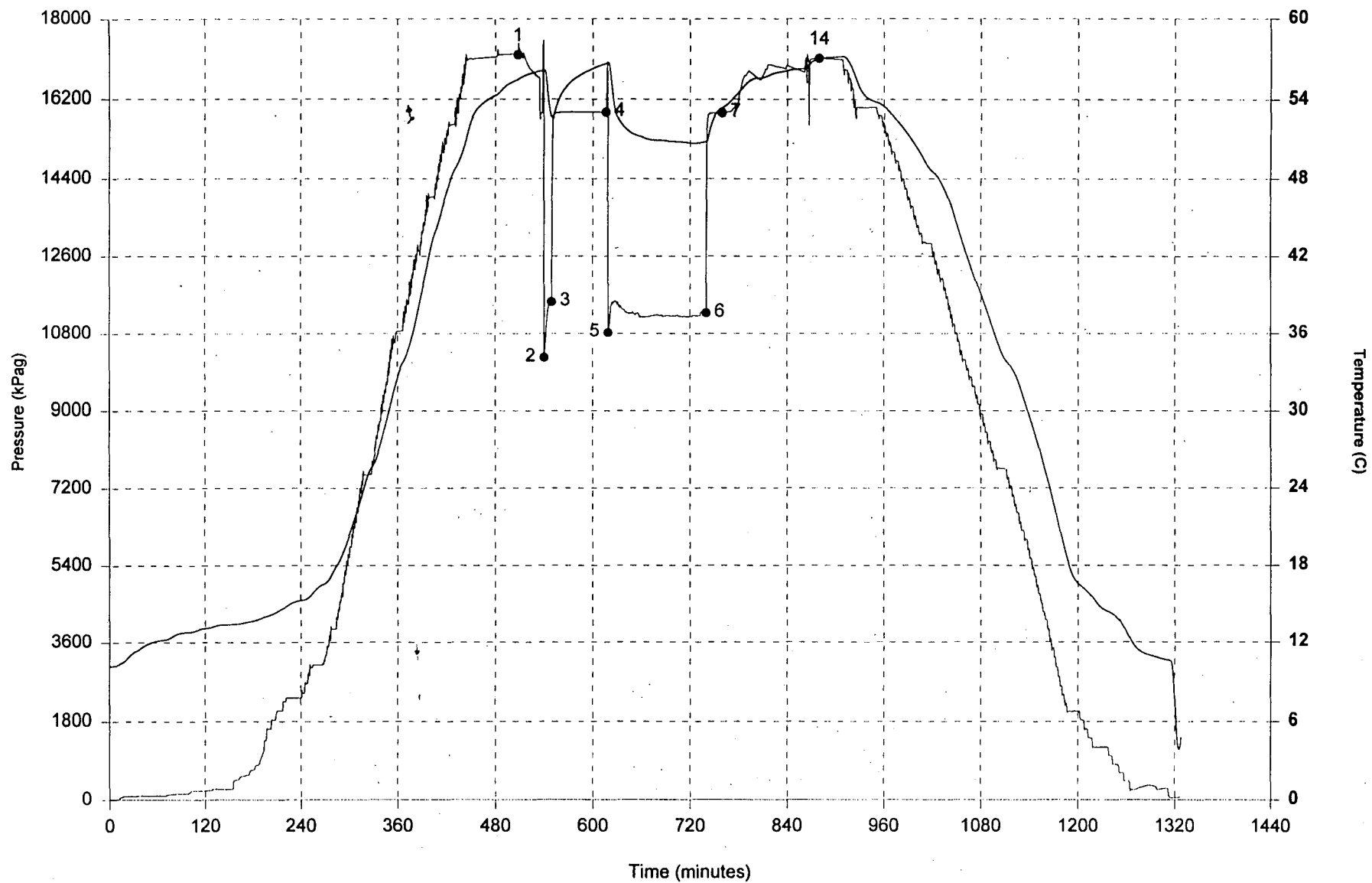
Pressure (kPag) at Critical Points:
1: 17006 4: 15875 7: 15864
2: 8526 5: 9195 14: 17046
3: 10487 6: 10333

Above interval



PARAMOUNT ET AL LIARD F-36
 00/ 60.091 / 123.367 / 0
 DST #: 4
 Recorder: N2

Pressure (kPag) at Critical Points:
 1: 17181 4: 15911 7: 15902
 2: 10237 5: 10817 14: 17096
 3: 11536 6: 11273



PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 /0
DST# 4

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	0.33 m
	Recorder Carrier	1.38 m
	Hydraulic Tool	1.50 m
	Bottom Hole Sampler	1.03 m
	Bottom Hole Sampler	1.03 m
	Recorder Carrier	1.38 m
	Real Time Gauge	4.20 m
	Hydraulic Jars	2.22 m
	Safety Joint	0.65 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	2.06 m
	Spacing	0.30 m
	Blank Off Sub	0.30 m
	Belly Spring	2.00 m

Tool String Length:	25.57 m
Drill Collar I.D.: 57 mm	166.69 m
Drill Pipe O.D.: 88 mm	1,379.84 m
Collar Pipe Total:	1,546.53 m
Stick Up:	6.50 m
Tool Above:	19.67 m
Interval Tested:	5.90 m
Bottom Hole Choke Size:	25.40 mm

PARAMOUNT ET AL LIARD F-36

00/ 60.091 / 123.367 / 0

DST# 4

Recorder# N2

Build-up and Flow Curve Increments

Flow# 1

Shut-in# 1

Chart Label	Time (min)	Pressure (kPag)	Chart Label	Time (min)	Delta P (kPag)	Pressure (kPag)	Abscissa (T+dT)/dT	Used for Extrap	Pressure**2 (kPag^2/10^6)
2	0.0	10237		0.0		11536			
	1.0	10571		2.0	4315	15851	5.2500		251.2593
	2.0	10888		4.0	4346	15882	3.1250		252.2229
	3.0	11171		6.0	4357	15893	2.4167		252.5912
	4.0	11354		8.0	4363	15899	2.0625		252.7883
	5.0	11454		10.0	4366	15902	1.8500		252.8806
	6.0	11504		12.0	4368	15904	1.7083		252.9367
	7.0	11494		14.0	4369	15905	1.6071		252.9670
3	8.0	11482		16.0	4370	15906	1.5313		252.9874
	8.5	11536		18.0	4370	15906	1.4722		253.0148
				20.0	4372	15907	1.4250	*	253.0472
				22.0	4371	15907	1.3864	*	253.0330
				24.0	4380	15916	1.3542	*	253.3289
				26.0	4376	15912	1.3269	*	253.2012
				28.0	4374	15910	1.3036	*	253.1405
				30.0	4373	15909	1.2833	*	253.1052
				32.0	4374	15910	1.2656	*	253.1297
				34.0	4374	15910	1.2500	*	253.1247
				36.0	4375	15910	1.2361	*	253.1439
				38.0	4374	15910	1.2237	*	253.1279
				40.0	4374	15910	1.2125	*	253.1314
				42.0	4374	15910	1.2024	*	253.1311
				44.0	4374	15910	1.1932	*	253.1344
				46.0	4374	15910	1.1848	*	253.1347
				48.0	4374	15910	1.1771	*	253.1369
				50.0	4375	15911	1.1700	*	253.1471
				52.0	4375	15911	1.1635	*	253.1499
				54.0	4375	15911	1.1574	*	253.1479
				56.0	4375	15911	1.1518	*	253.1470
				58.0	4375	15911	1.1466	*	253.1472
				60.0	4375	15911	1.1417	*	253.1499
				62.0	4375	15911	1.1371	*	253.1571
				64.0	4375	15911	1.1328	*	253.1552
				66.0	4375	15911	1.1288	*	253.1606
			4	67.0	4375	15911	1.1269	*	253.1568

Flow# 2

Shut-in# 2

Chart Label	Time (min)	Pressure (kPag)	Chart Label	Time (min)	Delta P (kPag)	Pressure (kPag)	Abscissa (T+dT)/dT	Used for Extrap	Pressure**2 (kPag^2/10^6)
5	0.0	10817		0.0		11273			
	3.0	11456		1.0	4480	15753	130.5000		248.1603
	6.0	11512		2.0	4565	15838	65.7500		250.8503

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

PARAMOUNT ET AL LIARD F-36

00/ 60.091 / 123.367 /0

DST# 4

Recorder# N2

Build-up and Flow Curve Increments

Flow# 2

Shut-in# 2

Chart Label	Time (min)	Pressure (kPag)	Chart Label	Time (min)	Delta P (kPag)	Pressure (kPag)	Abscissa (T+dT)/dT	Used for Extrap	Pressure**2 (kPag^2/10^6)
6	9.0	11558	7	3.0	4594	15868	44.1667		251.7790
	12.0	11488		4.0	4604	15878	33.3750		252.1062
	15.0	11443		5.0	4611	15885	26.9000		252.3262
	18.0	11350		6.0	4612	15885	22.5833		252.3362
	21.0	11293		7.0	4615	15888	19.5000		252.4320
	24.0	11273		8.0	4617	15891	17.1875		252.5096
	27.0	11277		9.0	4619	15892	15.3889		252.5691
	30.0	11299		10.0	4621	15894	13.9500		252.6217
	33.0	11233		11.0	4622	15895	12.7727	*	252.6658
	36.0	11273		12.0	4623	15897	11.7917	*	252.6995
	39.0	11166		13.0	4624	15897	10.9615	*	252.7284
	42.0	11179		14.0	4625	15898	10.2500	*	252.7530
	45.0	11179		15.0	4626	15899	9.6333	*	252.7772
	48.0	11185		16.0	4626	15900	9.0938	*	252.8046
	51.0	11196		17.0	4627	15900	8.6176	*	252.8252
	54.0	11207		18.0	4628	15901	8.1944	*	252.8421
	57.0	11222		19.0	4628	15901	7.8158	*	252.8573
	60.0	11225		19.5	4629	15902	7.6410	*	252.8718
	63.0	11211							
	66.0	11218							
	69.0	11200							
	72.0	11206							
	75.0	11210							
	78.0	11201							
	81.0	11205							
	84.0	11216							
	87.0	11191							
	90.0	11192							
	93.0	11193							
	96.0	11184							
	99.0	11182							
	102.0	11191							
	105.0	11214							
	108.0	11211							
	111.0	11204							
	114.0	11290							
	117.0	11276							
	120.0	11275							
	121.0	11273							

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

PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 /0
DST# 4
Recorder# M27

Build-up and Flow Curve Increments

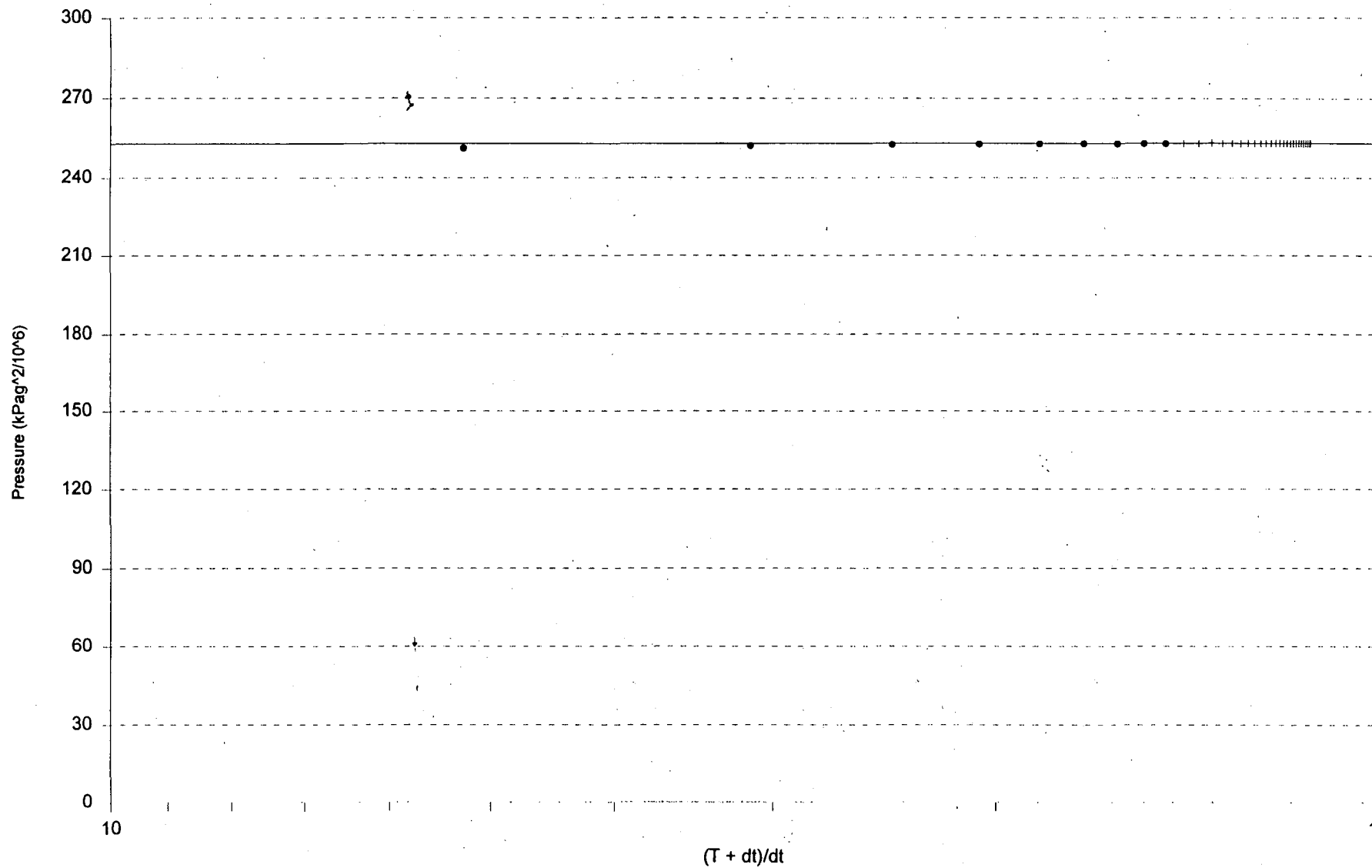
Horner Extrapolation:

<i>Shut-in#</i>	<i>Extrapolated Pressure (kPag)</i>	<i>Extrapolated Slope ((kPag²/10⁶)/cycle)</i>
1	15911.2	0.26635
2	15927.2	0.91092

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

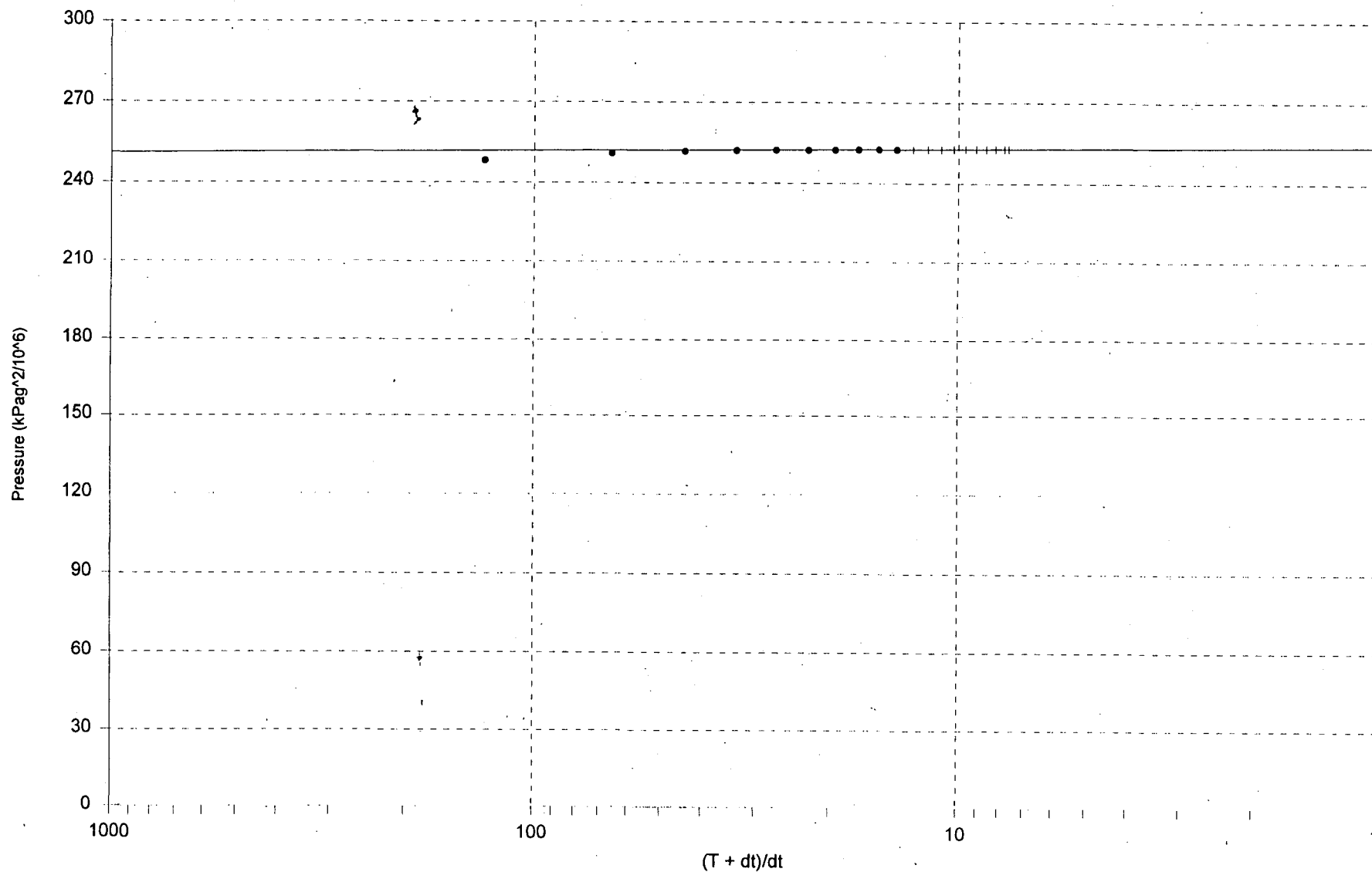
PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 / 0
DST #: 4
Recorder: N2

Shut-in #1
Slope = 0.27 kPag²/10⁶/cycle
Extrapolated Pressure = 15911.17 kPag



PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 / 0
DST #: 4
Recorder: N2

Shut-in #2
Slope = 0.91 kPag²/10⁶/cycle
Extrapolated Pressure = 15927.17 kPag



PARAMOUNT ET AL LIARD 1-36
00/ 60.091 / 123.367 /0
DST# 4
Recorder# N2

GAS RESERVOIR CALCULATIONS (Using Semi-log Analysis) :

Based on Shut-in# 2

Reservoir Parameters Used:

Net Pay:	3.0 m	Specific Gravity:	0.650
Porosity:	10.0 %	Z Factor:	0.816
Temperature:	57.4 C	Viscosity:	0.017 mPa.s
Flow Rate:	223,080 m ³ /d	Compressibility:	6.3270e-5 / kPag
Flow Time:	129.5 min		
Final Flowing Pressure:	11273 kPag		
Horner Slope:	0.91092 (kPag**2 / 10**6) / cycle		
Horner Extrapolation:	15927.2 kPag		
Assumed Drainage Radius:	908.00 m		
Wellbore Radius:	78.00 mm		

Results:

Effective Permeability:	558.10 mD
Transmissibility:	98,488.59 mD.m/mPa.s
Flow Capacity:	1,674.31 mD.m
Skin:	151.69
Pressure Drop Across Skin:	4,448.12 kPa
Radius of Investigation:	401.67 m
Calculated Damage Ratio:	19.37
AOF:	446,957.87 m ³ /d
AOF with Damage Removed:	8,658,814.19 m ³ /d
Est. Stabilized AOF (No Damage):	8,305,475.88 m ³ /d

PARAMOUNT ET AL LIARD P-36
00/ 60.091 / 123.367 /0
DST# 4

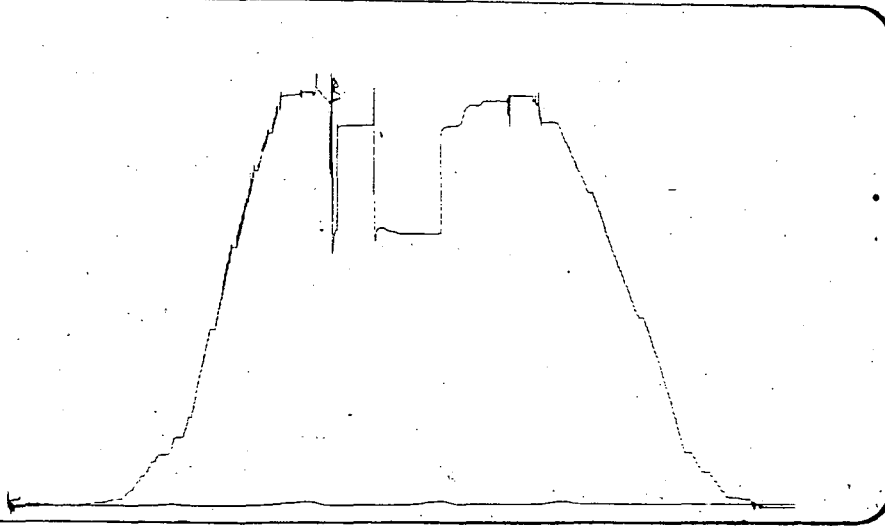
Recorder# 13832

Depth: 1,562.70 m

Location: Outside

Recorder Type: K-3

Capacity: 19,300 kPag



		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	17176	
2	Start of 1st Flow	10594	
3	End of 1st Flow	11594	8.5
4	End of 1st Shut-in	15916	67.0
5	Start of 2nd Flow	11116	
6	End of 2nd Flow	11432	121.0
7	End of 2nd Shut-in	15871	19.5
14	Final Hydrostatic	17176	

Recorder# M27

Depth: 1,543.70 m

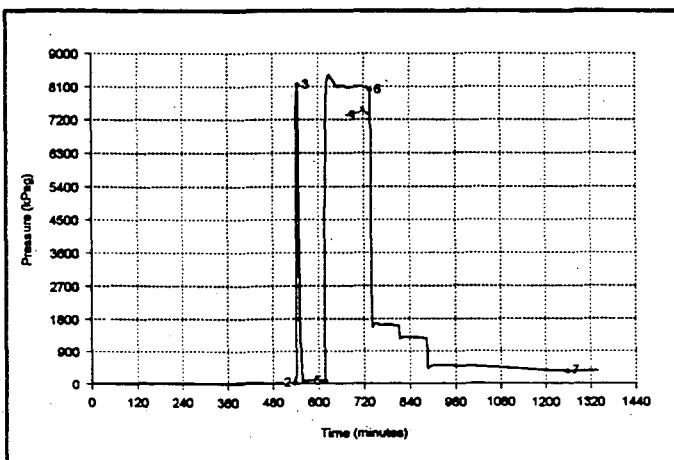
Temperature: 54.4 C

Location: Inside

Recorder Type: ZI

Capacity: 68,900 kPag

Comments: Recovery recorder



		Pressure (kPag)	Time (min)
2	Start of 1st Flow	3	
3	End of 1st Flow	8123	8.5
5	Start of 2nd Flow	50	
6	End of 2nd Flow	7995	121.0
7	End of 2nd Shut-in	326	19.5

PARAMOUNT ET AL LIARD F-36

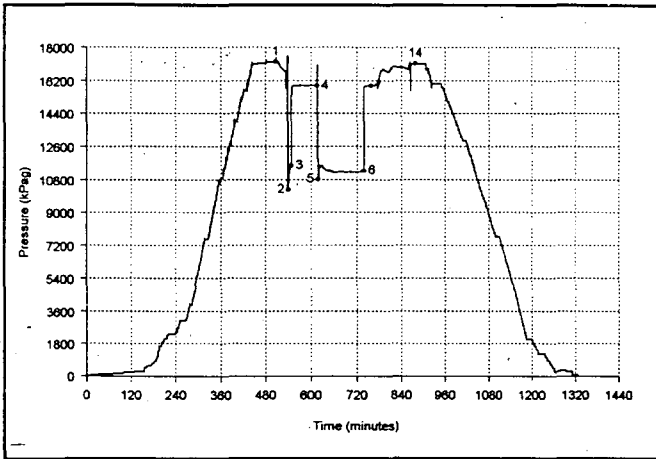
00/ 60.091 / 123.367 /0

DST# 4

Recorder# N2

Depth: 1,562.70 m
 Temperature: 57.4 C
 Location: Outside

Recorder Type: ZI
 Capacity: 68,900 kPag

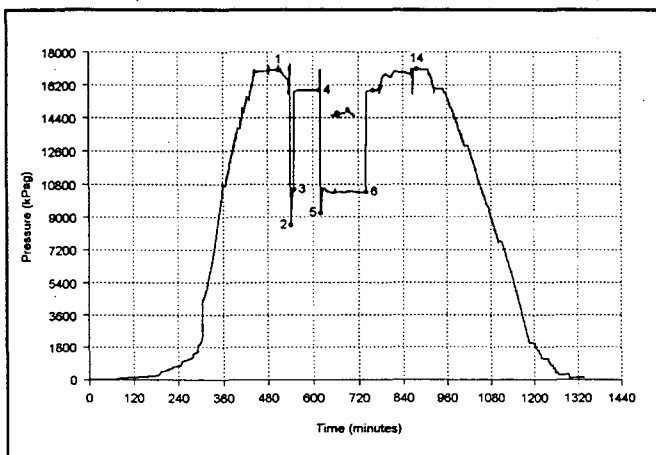


		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	17181	
2	Start of 1st Flow	10237	
3	End of 1st Flow	11536	8.5
4	End of 1st Shut-in	15911	67.0
5	Start of 2nd Flow	10817	
6	End of 2nd Flow	11273	121.0
7	End of 2nd Shut-in	15902	19.5
14	Final Hydrostatic	17096	

Recorder# N4

Depth: 1,547.70 m
 Temperature: 55.0 C
 Location: Inside

Recorder Type: ZI
 Capacity: 68,900 kPag
 Comments: Above interval



		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	17006	
2	Start of 1st Flow	8526	
3	End of 1st Flow	10487	8.5
4	End of 1st Shut-in	15875	67.0
5	Start of 2nd Flow	9195	
6	End of 2nd Flow	10333	121.0
7	End of 2nd Shut-in	15864	19.5
14	Final Hydrostatic	17046	