



PARAMOUNT ET AL LIARD F-36
00/ 60.091 / 123.367 /0
DST# 8

Baker Oil Tools

Formation: Flett
Interval - from: 2,085.00 to: 2,110.00 meters

Test Date: 1999-02-01
Test Type : Conventional Bottom Hole

Recorder# P99 at 2,089.00 meters

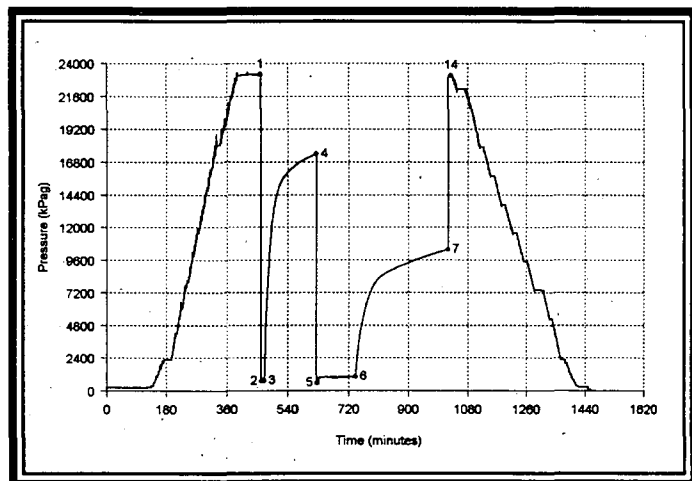
Blow Description:

PREFLOW: Strong air blow in 35 seconds. Gas to surface in 5 minutes with a lazy 2 meter flame - too small to measure.

FINAL FLOW: Strong air blow immediately. Gas to surface immediately with a lazy 2 meter flame. decreasing to 1 meter - too small to measure.

Remarks:

Mechanically successful test. Results suggest low permeability within the interval tested. The shut-ins were not extrapolated due to insufficient curve development. The shut-in data maybe indicating a decrease in permeability away from the wellbore.



Max Btm Hole Temperature @ FSI: 70.7 C

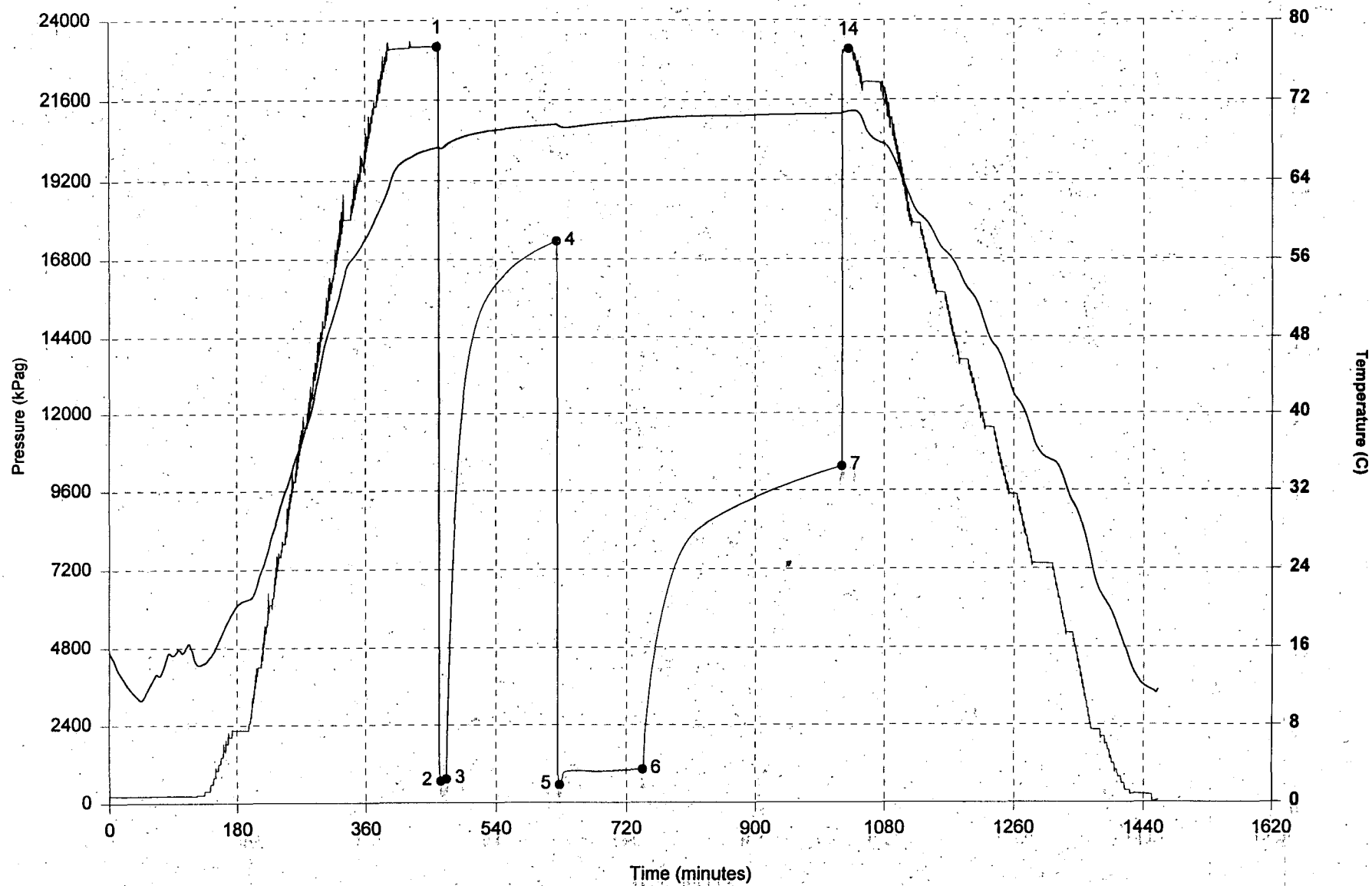
		Pressure (kPag)	Time (min)	Extrapolated Pressure (kPag)
1	Initial Hydrostatic	23183		
2	Start of 1st Flow	665		
3	End of 1st Flow	728	8.0	
4	End of 1st Shut-in	17352	152.0	
5	Start of 2nd Flow	545		
6	End of 2nd Flow	1021	115.5	
7	End of 2nd Shut-in	10349	278.0	
14	Final Hydrostatic	23109		

Liquid Recovery 95.00 meters

Recovery	Description
27.00 m	Gassy Inhibited Water
68.00 m	Gassy Watery Invert

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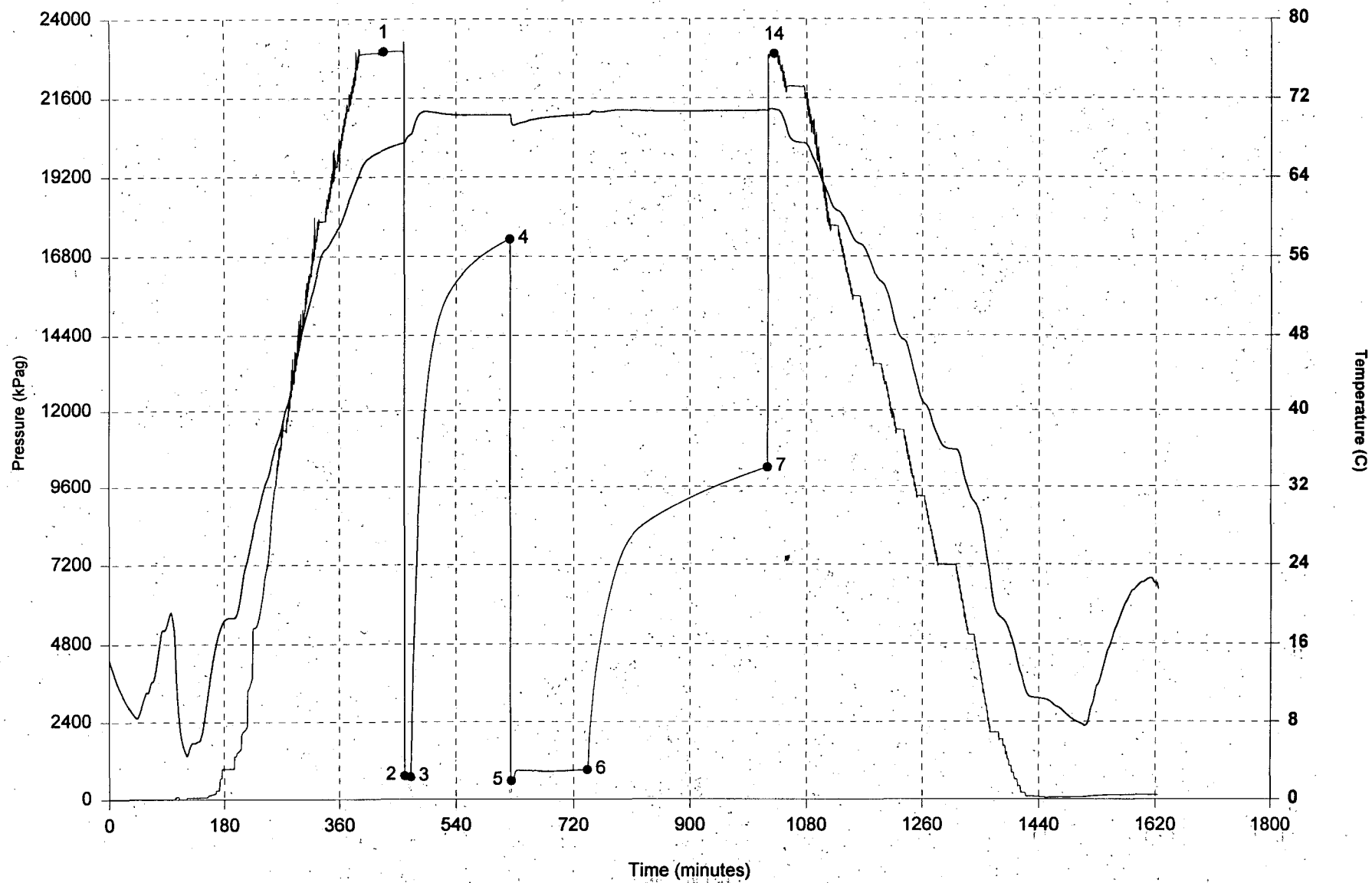
Pressure (kPag) at Critical Points:
1: 23183 4: 17352 7: 10349
2: 665 5: 545 14: 23109
3: 728 6: 1021



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Recorder: K15

Pressure (kPag) at Critical Points:
1: 23001 4: 17315 7: 10202
2: 726 5: 568 14: 22936
3: 696 6: 911

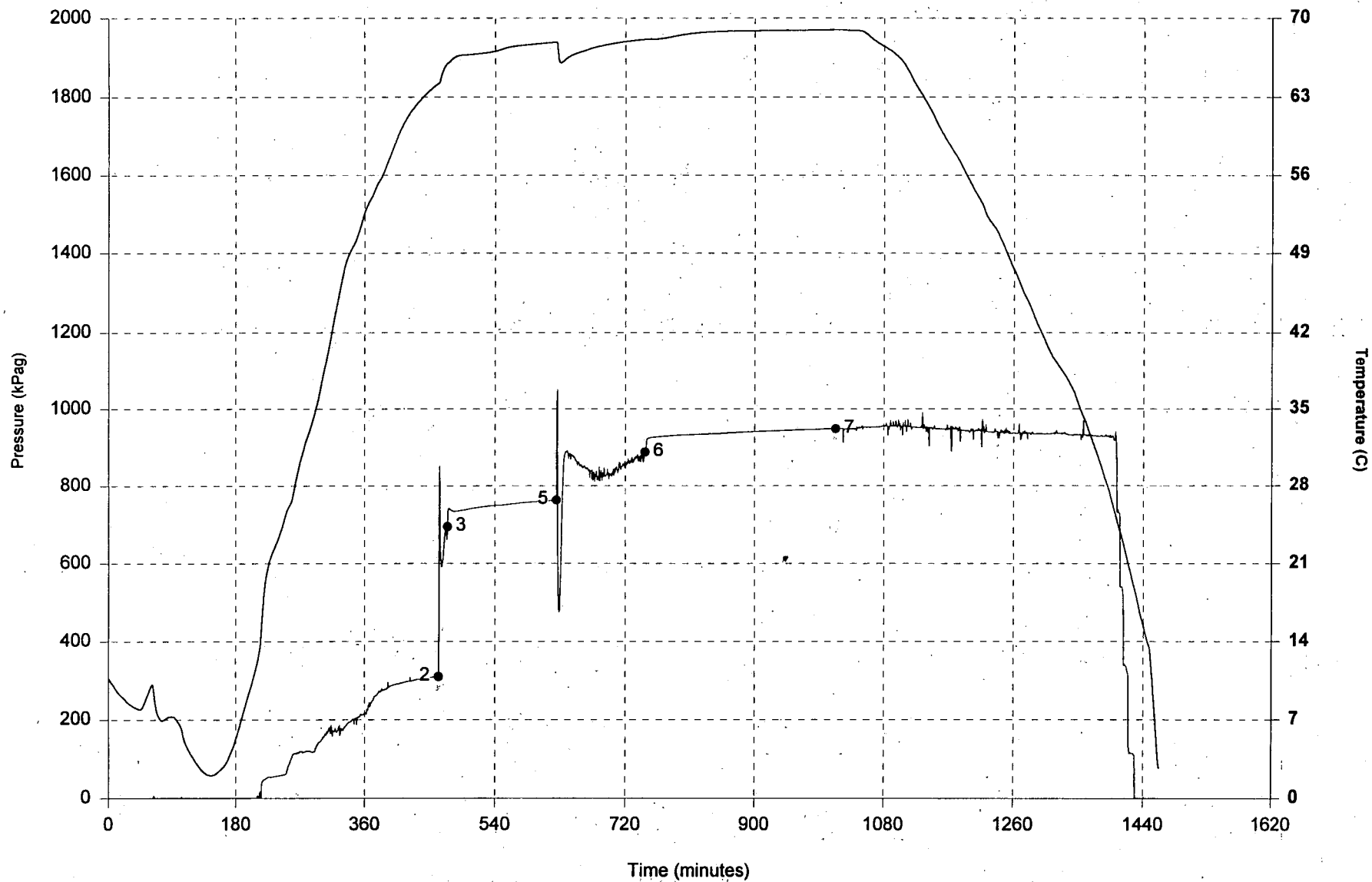
Above interval



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Pressure (kPag) at Critical Points:
2: 310 6: 887
3: 694 7: 948
5: 762

Recovery recorder



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General Information:

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

Licence#: 1841

Tester: Pangracs D

Ticket#: 809002

Reverse Circulated? N

KB Elevation: 470.30 meters

Ground Elevat'n: 464.80 meters

Total Depth: 2,110.00 meters

Mud Data:

Weight: 1130 kg/m3

Type: Invert

Viscosity: 56 s/l

Filter Cake: 1.0 mm

Hole Data:

Drilled Hole Size: 156 mm

Calipered Hole Size: 159 mm

Hole Condition at Test Time: Fair

Conditioned prior to this test? N

Recorder Summary:

Recorder#	Type	Position	Capacity	Units	Depth	Comments
K99	ZI	Inside	68999	kPag	2,065.00	Recovery recorder
K15	ZI	Inside	68900	kPag	2,073.00	Above interval
21674	K-3	Outside	39800	kPag	2,089.00	Clock stopped
P99	ZI	Outside	34500	kPag	2,089.00	

Distributions:

Reports Sent To: Wayne Tomm

Fluid Samples - no of: 6 Sent To: Agat

Gas Bomb#	Sent To
cx05278	Agat
cx06419	Agat
Bottom Hole Sampler#	Sent To
8	Agat
88	Agat

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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
	Rotating Shut-in Tool	2.58 m
	Bottom Hole Sampler	1.03 m
	Bottom Hole Sampler	1.03 m
	Hydraulic Tool	1.50 m
	Recorder Carrier	1.38 m
	Real Time Gauge	4.59 m
	Hydraulic Jars	2.22 m
	Safety Joint	0.65 m
	Conventional Packer	2.30 m
	Conventional Packer	1.30 m
	Packer Stick Down	1.00 m
	Perforations	1.51 m
	Perforations	1.51 m
	Recorder Carrier	2.05 m
	Spacing	8.51 m
	Drill Collar	9.23 m
	Cross Over Sub	0.60 m
	Anchor Shoe (Bull Nose)	0.61 m

Tool String Length: 45.94 m
 Drill Collar I.D.: 58 mm 158.51 m
 Drill Pipe O.D.: 89 mm 1,910.81 m
 Collar Pipe Total: 2,069.32 m
 Stick Up: 5.24 m
 Tool Above: 20.92 m
 Interval Tested: 25.00 m
 Bottom Hole Choke Size: 25.40 mm

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DST# 8
Recorder# P99

Build-up and Flow Curve Increments

Flow# 1

Shut-in# 1

<i>Chart Label</i>	<i>Time (min)</i>	<i>Pressure (kPag)</i>	<i>Chart Label</i>	<i>Time (min)</i>	<i>Delta P (kPag)</i>	<i>Pressure (kPag)</i>	<i>Abscissa (T+dT)/dT</i>	<i>Used for Extrap</i>
2	0.0	665		0.0		728		
	1.0	641		3.5	3416	4144	3.2857	
	2.0	652		7.0	5593	6320	2.1429	
	3.0	661		10.5	7480	8208	1.7619	
	4.0	689		14.0	8977	9705	1.5714	
	5.0	705		17.5	10234	10961	1.4571	
	6.0	719		21.0	11223	11951	1.3810	
	7.0	723		24.5	11978	12706	1.3265	
	8.0	728		28.0	12600	13328	1.2857	
3				31.5	13116	13843	1.2540	
				35.0	13535	14263	1.2286	
				38.5	13872	14600	1.2078	
				42.0	14149	14877	1.1905	
				45.5	14385	15112	1.1758	
				49.0	14586	15313	1.1633	
				52.5	14755	15482	1.1524	
				56.0	14901	15629	1.1429	
				59.5	15029	15757	1.1345	
				63.0	15143	15871	1.1270	
				66.5	15245	15973	1.1203	
				70.0	15340	16067	1.1143	
				73.5	15429	16156	1.1088	
				77.0	15513	16240	1.1039	
				80.5	15593	16321	1.0994	
				84.0	15670	16398	1.0952	
				87.5	15744	16471	1.0914	
				91.0	15813	16540	1.0879	
				94.5	15878	16606	1.0847	
				98.0	15942	16669	1.0816	
				101.5	16001	16728	1.0788	
				105.0	16056	16784	1.0762	
				108.5	16109	16837	1.0737	
				112.0	16159	16887	1.0714	
				115.5	16207	16934	1.0693	
				119.0	16253	16980	1.0672	
				122.5	16298	17025	1.0653	
				126.0	16341	17069	1.0635	
				129.5	16382	17110	1.0618	
				133.0	16423	17150	1.0602	
				136.5	16462	17189	1.0586	
				140.0	16500	17228	1.0571	
				143.5	16538	17265	1.0557	
				147.0	16574	17302	1.0544	
				150.5	16610	17338	1.0532	
			4	152.0	16625	17352	1.0526	

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

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DST# 8

Recorder# K99

Build-up and Flow Curve Increments

Flow# 1

Shut-in# 1

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
5	0.0	545		0.0		1021		
	2.5	691		5.5	1729	2750	23.4545	
	5.0	863		11.0	2834	3856	12.2273	
	7.5	936		16.5	3633	4654	8.4848	
	10.0	954		22.0	4305	5327	6.6136	
	12.5	962		27.5	4888	5910	5.4909	
	15.0	968		33.0	5381	6403	4.7424	
	17.5	972		38.5	5807	6829	4.2078	
	20.0	973		44.0	6184	7205	3.8068	
	22.5	971		49.5	6505	7527	3.4949	
	25.0	968		55.0	6767	7788	3.2455	
	27.5	972		60.5	6974	7996	3.0413	
	30.0	971		66.0	7148	8169	2.8712	
	32.5	969		71.5	7284	8305	2.7273	
	35.0	972		77.0	7392	8413	2.6039	
	37.5	967		82.5	7481	8503	2.4970	
	40.0	967		88.0	7561	8582	2.4034	
	42.5	963		93.5	7637	8658	2.3209	
	45.0	945		99.0	7708	8729	2.2475	
	47.5	963		104.5	7777	8798	2.1818	
	50.0	952		110.0	7844	8865	2.1227	
	52.5	941		115.5	7909	8930	2.0693	
	55.0	973		121.0	7972	8993	2.0207	
	57.5	969		126.5	8033	9055	1.9763	
	60.0	959		132.0	8092	9113	1.9356	
	62.5	958		137.5	8150	9171	1.8982	
	65.0	956		143.0	8205	9227	1.8636	
	67.5	960		148.5	8261	9282	1.8316	
	70.0	960		154.0	8316	9337	1.8019	
	72.5	960		159.5	8371	9393	1.7743	
	75.0	969		165.0	8426	9447	1.7485	
	77.5	965		170.5	8477	9499	1.7243	
	80.0	978		176.0	8529	9550	1.7017	
	82.5	986		181.5	8581	9602	1.6804	
	85.0	982		187.0	8629	9650	1.6604	
	87.5	990		192.5	8677	9699	1.6416	
	90.0	993		198.0	8725	9747	1.6237	
	92.5	996		203.5	8772	9794	1.6069	
	95.0	999		209.0	8819	9840	1.5909	
	97.5	993		214.5	8862	9884	1.5758	
	100.0	1002		220.0	8906	9927	1.5614	
	102.5	998		225.5	8948	9970	1.5477	
				231.0	8991	10012	1.5346	

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Recorder# P99

Build-up and Flow Curve Increments

Flow# 2

<i>Chart Label</i>	<i>Time (min)</i>	<i>Pressure (kPag)</i>
6	105.0	1015
	107.5	1010
	110.0	1003
	112.5	1005
	115.0	1010
	115.5	1021

Shut-in# 2

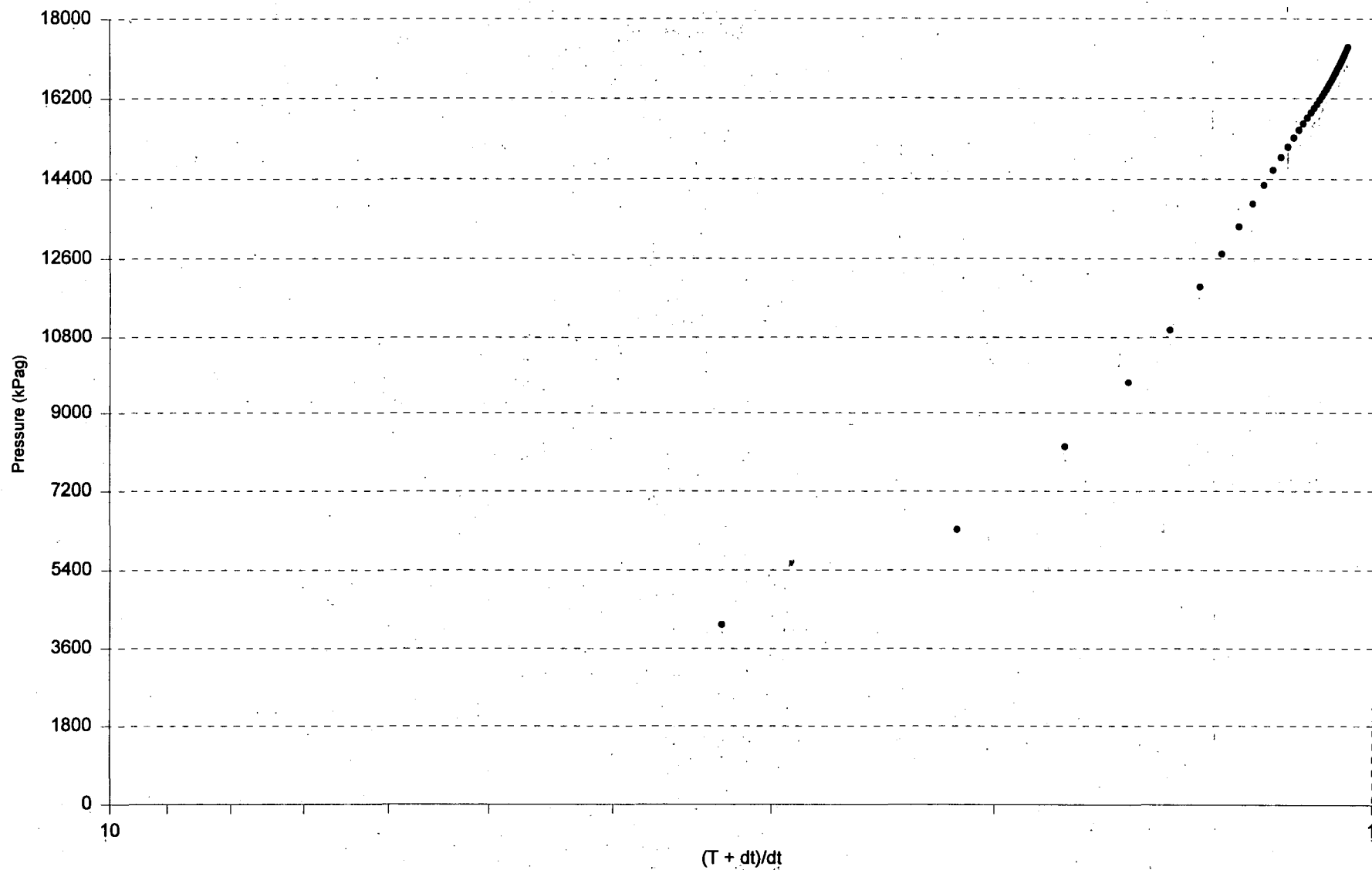
<i>Chart Label</i>	<i>Time (min)</i>	<i>Delta P (kPag)</i>	<i>Pressure (kPag)</i>	<i>Abscissa (T+dT)/dT</i>	<i>Used for Extrapol</i>
7	236.5	9033	10055	1.5222	
	242.0	9075	10096	1.5103	
	247.5	9116	10137	1.4990	
	253.0	9156	10177	1.4881	
	258.5	9196	10217	1.4778	
	264.0	9234	10255	1.4678	
	269.5	9272	10293	1.4583	
	275.0	9308	10330	1.4491	
	278.0	9327	10349	1.4442	

Horner Extrapolation:

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

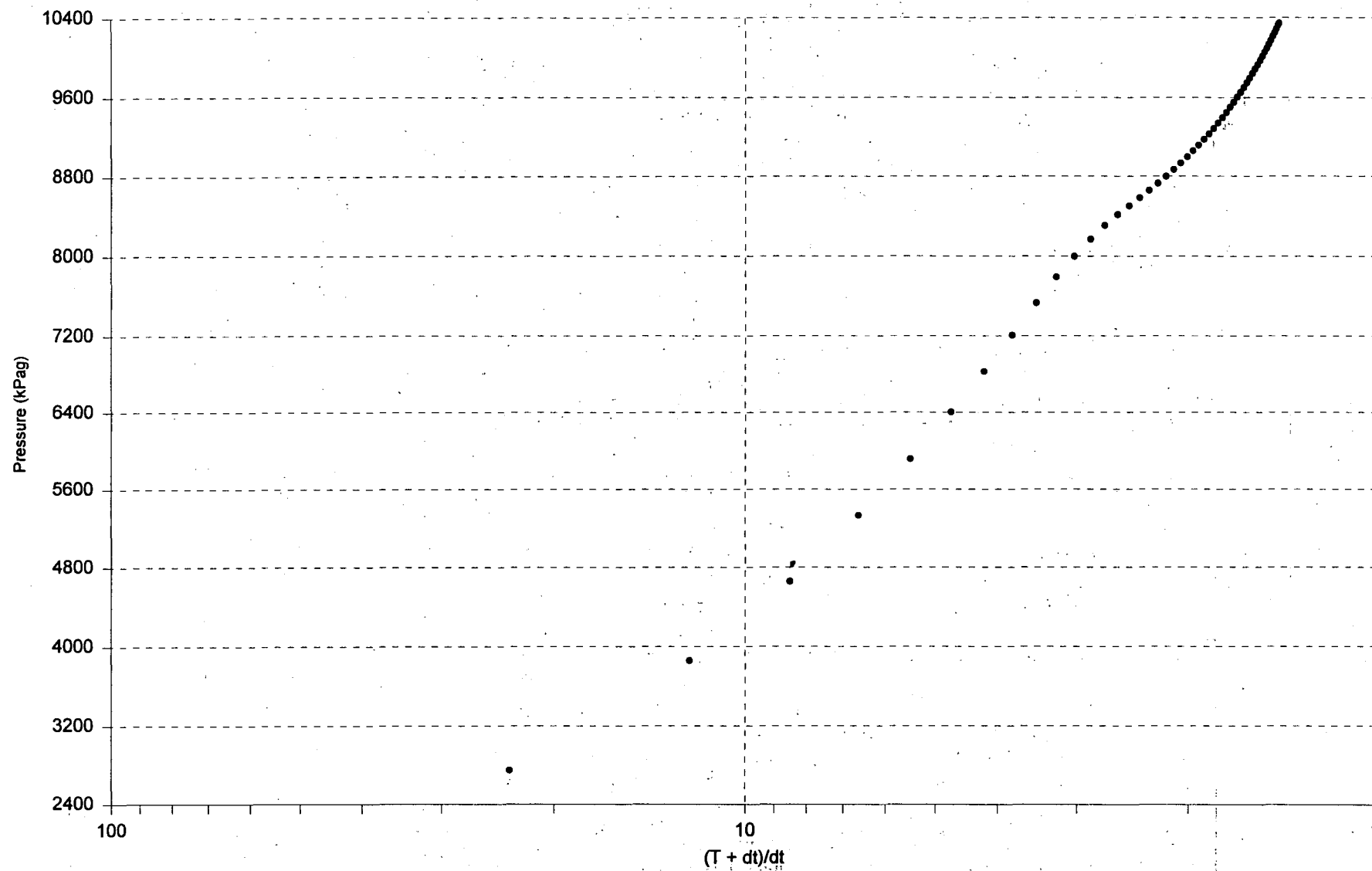
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Recorder: P99

Shut-in #1



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Shut-in #2

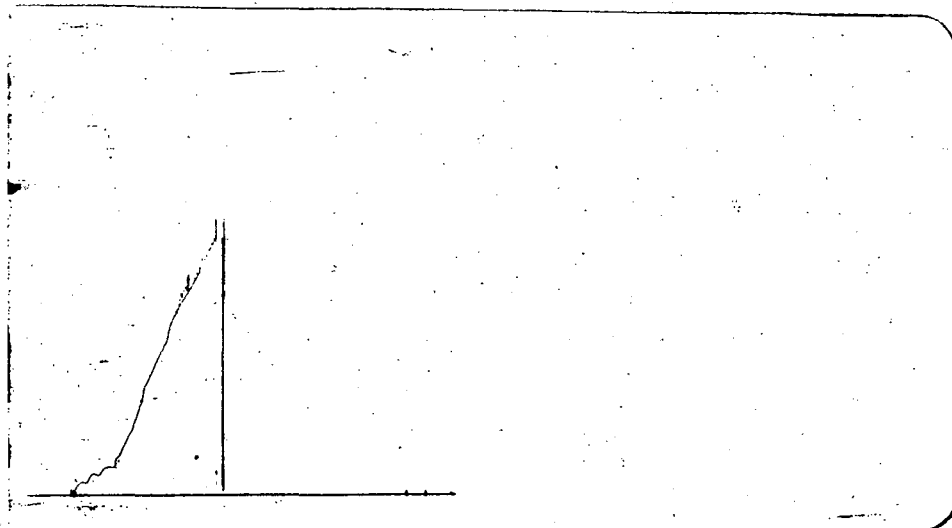


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Recorder# 21674

Depth: 2,089.00 m
 Location: Outside

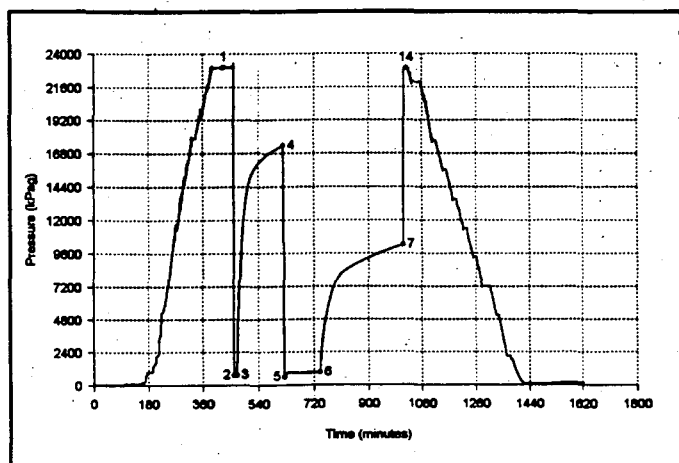
Recorder Type: K-3
 Capacity: 39,800 kPag
 Comments: Clock stopped



Recorder# K15

Depth: 2,073.00 m
 Temperature: 70.6 C
 Location: Inside

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



		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	23001	
2	Start of 1st Flow	726	
3	End of 1st Flow	696	8.0
4	End of 1st Shut-in	17315	152.0
5	Start of 2nd Flow	568	
6	End of 2nd Flow	911	115.5
7	End of 2nd Shut-in	10202	278.0
14	Final Hydrostatic	22936	

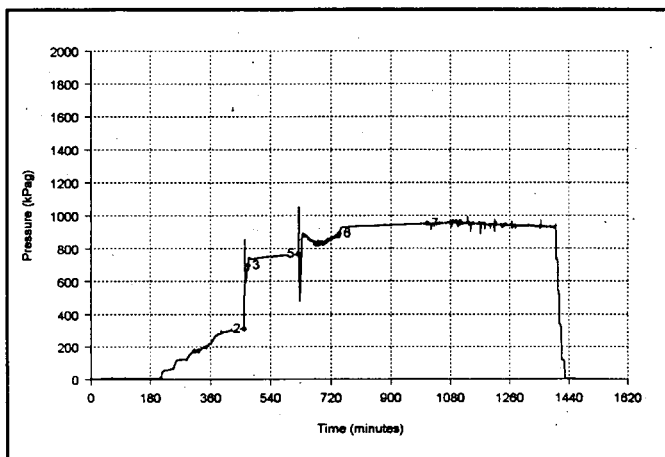
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Recorder# K99

Depth: 2,065.00 m
Temperature: 69.1 C
Location: Inside

Recorder Type: ZI
Capacity: 68,999 kPag
Comments: Recovery recorder

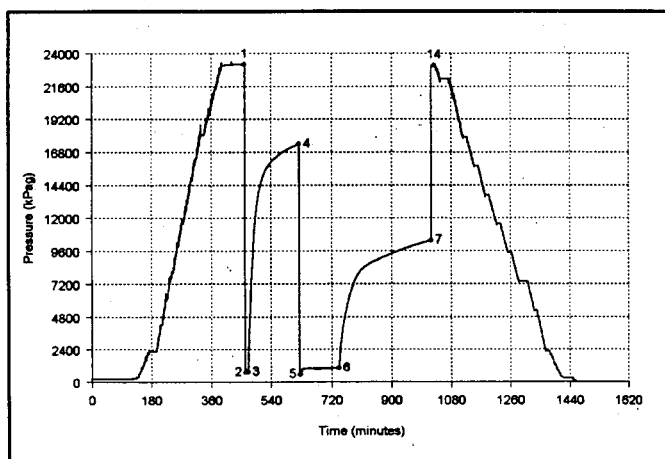


		Pressure (kPag)	Time (min)
2	Start of 1st Flow	310	
3	End of 1st Flow	694	8.0
5	Start of 2nd Flow	762	
6	End of 2nd Flow	887	115.5
7	End of 2nd Shut-in	948	278.0

Recorder# P99

Depth: 2,089.00 m
Temperature: 70.7 C
Location: Outside

Recorder Type: ZI
Capacity: 34,500 kPag



		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	23183	
2	Start of 1st Flow	665	
3	End of 1st Flow	728	8.0
4	End of 1st Shut-in	17352	152.0
5	Start of 2nd Flow	545	
6	End of 2nd Flow	1021	115.5
7	End of 2nd Shut-in	10349	278.0
14	Final Hydrostatic	23109	