

Baker Oil Tools

Formation: Mattson

Interval - from: 594.00 to: 606.00 meters

Recorder# R85 at 596.00 meters

Test Date: 1999-09-05

Test Type : Inflate Straddle

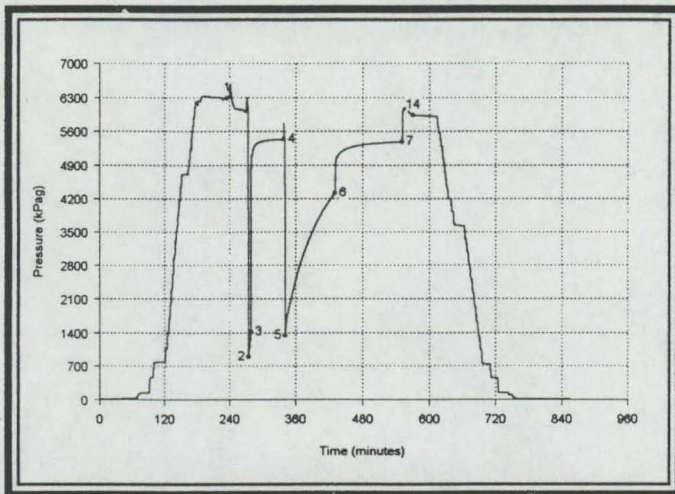
Blow Description:

PREFLOW: Weak air blow increasing to good (bottom of pail but not strong) in 2.5 minutes then steady throughout. No gas to surface.

FINAL FLOW: Bottom of pail in 3 minutes. Steady for 70 minutes then slowly decreasing for the remainder of the flow. No gas to surface.

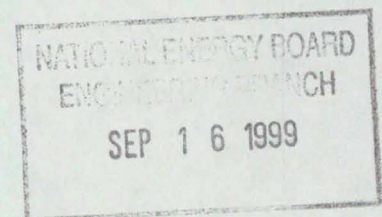
Remarks:

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



Max Btm Hole Temperature @ FSI: 30.7 C

		<i>Pressure</i> <i>(kPag)</i>	<i>Time</i> <i>(min)</i>	<i>Extrapolated</i> <i>Pressure</i> <i>(kPag)</i>
1	Initial Hydrostatic	6278		
2	Start of 1st Flow	891		
3	End of 1st Flow	1415	4.0	
4	End of 1st Shut-in	5435	59.0	5461.2
5	Start of 2nd Flow	1339		
6	End of 2nd Flow	4305	90.0	
7	End of 2nd Shut-in	5381	119.5	5457.5
14	Final Hydrostatic	5930		



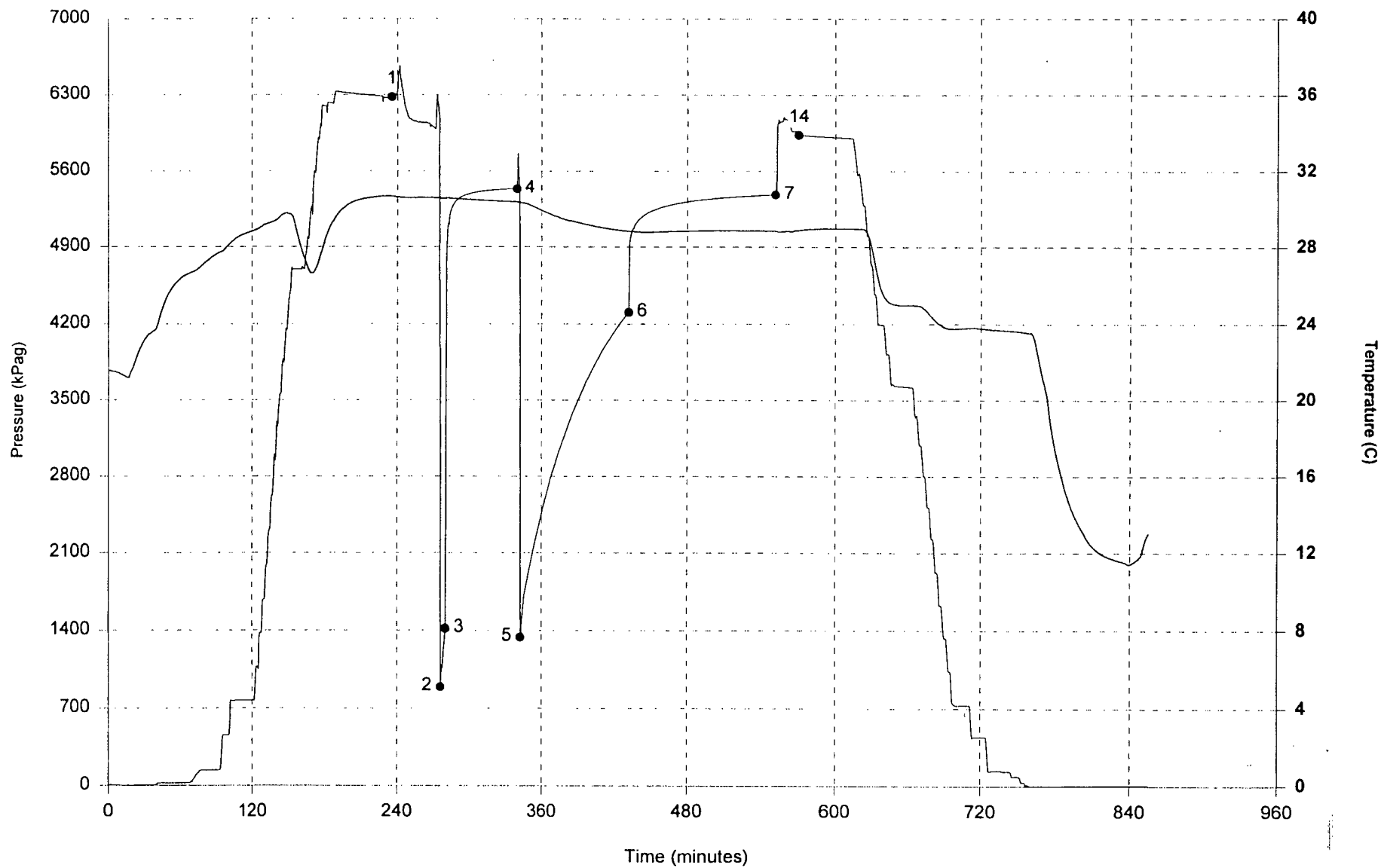
Liquid Recovery 400.00 meters

Salinity : 1 500 g/m³

Recovery	Description
100.00 m	MUDDY FRESH WATER
300.00 m	FRESH WATER

CHEVRON ET AL MCKAY LAKES O-80
 00/ 60.200 / 123.150 / 0
 DST #: 1
 Recorder: R85

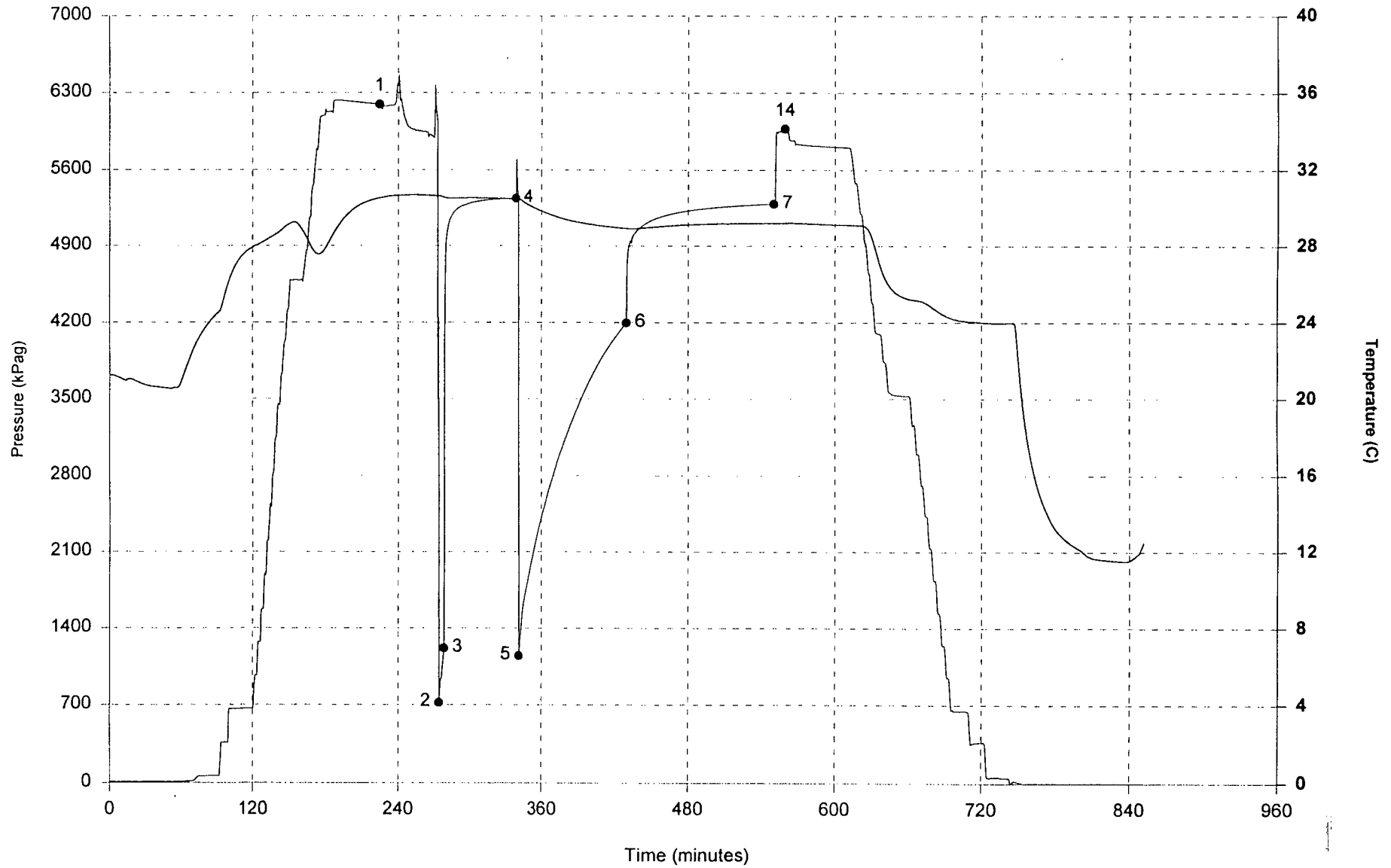
Pressure (kPag) at Critical Points:
 1: 6278 4: 5435 7: 5381
 2: 891 5: 1339 14: 5930
 3: 1415 6: 4305



CHEVRON ET AL MCKAY LAKES O-80
 00/ 60.200 / 123.150 /0
 DST #: 1
 Recorder: N37

Pressure (kPag) at Critical Points:
 1: 6191 4: 5340 7: 5288
 2: 720 5: 1148 14: 5973
 3: 1216 6: 4195

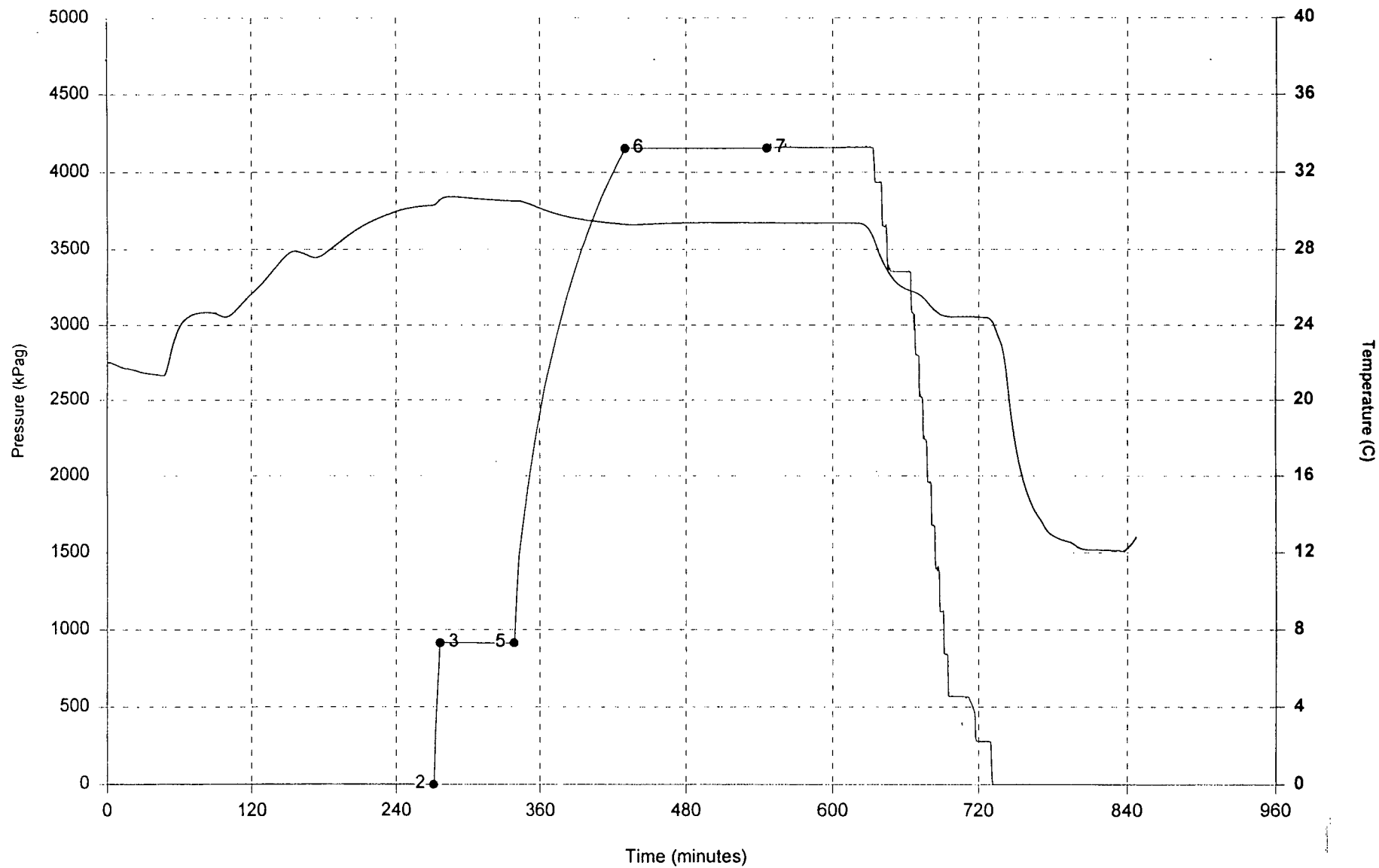
Above interval



CHEVRON ET AL MCKAY LAKES O-80
 00/ 60.200 / 123.150 /0
 DST #: 1
 Recorder: N63

Pressure (kPag) at Critical Points:
 2: 0 6: 4151
 3: 913 7: 4152
 5: 914

Recovery recorder



CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /0
DST# 1

General Information:

Operator: Chevron Canada Resources Limited
500 - 5th Avenue S.W.
Calgary Alberta T2P 0L7

Tester: Prysunka S

Ticket#: 807427

Reverse Circulated? N

KB Elevation: 299.60 meters

Ground Elevat'n: 292.32 meters

Total Depth: 1,028.00 meters

Mud Data:

Weight: 1080 kg/m3
Type: Gel Chemical
Viscosity: 56 s/l
Water Loss: 5.5 cc/s
Filter Cake: 1.5 mm

Hole Data:

Drilled Hole Size: 222 mm
Calipered Hole Size: 230 mm
Hole Condition at Test Time: Good
Conditioned prior to this test? Y

Recorder Summary:

Recorder#	Type	Position	Capacity	Units	Depth	Comments
N63	ZI	Fluid Recovery	41400	kPag	580.00	Recovery recorder Above interval
N37	ZI	Inside	41400	kPag	585.00	
9487	K-3	Outside	20700	kPag	596.00	
R85	ZI	Outside	68900	kPag	596.00	
19531	K-3	Below Straddle	22400	kPag	609.00	Below interval

Distributions:

Reports Sent To: Eric Furlan

Fluid Samples - no of: 8 Sent To: AGAT

Bottom Hole Sampler#	Sent To
111	AGAT

CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /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	0.33 m
	Recorder Carrier	1.38 m
	Hydraulic Tool	1.50 m
	Bottom Hole Sampler	1.03 m
	Recorder Carrier	1.38 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	2.36 m
	Spacing	7.98 m
	Packer Stick Up	0.42 m
	Bottom Inflate Packer	1.90 m
	Recorder Carrier	0.00 m
	Perforations	0.30 m
	Belly Spring	2.00 m

Tool String Length:	30.64 m
Drill Collar I.D.: 60 mm	28.68 m
Drill Pipe O.D.: 127 mm	553.21 m
Collar Pipe Total:	581.89 m
Stick Up:	2.33 m
Tool Above:	14.44 m
Interval Tested:	12.00 m
Bottom Hole Choke Size:	25.40 mm

CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /0
DST# 1
Recorder# N63

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
2	0.0	891		0.0		1415		
	0.5	1011		1.5	3649	5064	3.6667	
	1.0	1070		3.0	3769	5184	2.3333	
	1.5	1062		4.5	3832	5247	1.8889	
	2.0	1141		6.0	3869	5284	1.6667	
	2.5	1222		7.5	3894	5309	1.5333	
	3.0	1276		9.0	3913	5328	1.4444	
	3.5	1334		10.5	3927	5342	1.3810	
3	4.0	1415		12.0	3938	5354	1.3333	
				13.5	3948	5363	1.2963	
				15.0	3956	5371	1.2667	
				16.5	3962	5378	1.2424	
				18.0	3967	5382	1.2222	
				19.5	3972	5387	1.2051	
				21.0	3977	5392	1.1905	
				22.5	3981	5396	1.1778	
				24.0	3984	5400	1.1667	*
				25.5	3988	5403	1.1569	*
				27.0	3991	5406	1.1481	*
				28.5	3993	5409	1.1404	*
				30.0	3996	5411	1.1333	*
				31.5	3998	5413	1.1270	*
				33.0	4000	5415	1.1212	*
				34.5	4002	5417	1.1159	*
				36.0	4004	5419	1.1111	*
				37.5	4005	5421	1.1067	*
				39.0	4007	5422	1.1026	*
				40.5	4008	5424	1.0988	*
				42.0	4010	5425	1.0952	*
				43.5	4011	5426	1.0920	*
				45.0	4012	5427	1.0889	*
				46.5	4013	5428	1.0860	*
				48.0	4014	5429	1.0833	*
				49.5	4015	5430	1.0808	*
				51.0	4016	5431	1.0784	*
				52.5	4017	5432	1.0762	*
				54.0	4017	5433	1.0741	*
				55.5	4018	5433	1.0721	*
				57.0	4019	5434	1.0702	*
				58.5	4020	5435	1.0684	*
			4	59.0	4020	5435	1.0678	*

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

CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /0
DST# 1
Recorder# N63

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
5	0.0	1339		0.0		4305		
	2.0	1597		2.5	733	5038	38.6000	
	4.0	1770		5.0	793	5098	19.8000	
	6.0	1879		7.5	832	5137	13.5333	
	8.0	1982		10.0	860	5165	10.4000	
	10.0	2086		12.5	882	5187	8.5200	
	12.0	2182		15.0	901	5205	7.2667	
	14.0	2276		17.5	916	5221	6.3714	
	16.0	2366		20.0	929	5234	5.7000	
	18.0	2457		22.5	940	5245	5.1778	
	20.0	2543		25.0	950	5255	4.7600	
	22.0	2623		27.5	959	5264	4.4182	
	24.0	2711		30.0	967	5272	4.1333	
	26.0	2794		32.5	975	5280	3.8923	
	28.0	2866		35.0	981	5286	3.6857	
	30.0	2938		37.5	988	5293	3.5067	
	32.0	3007		40.0	993	5298	3.3500	
	34.0	3075		42.5	999	5304	3.2118	
	36.0	3139		45.0	1004	5309	3.0889	
	38.0	3203		47.5	1008	5313	2.9789	*
	40.0	3264		50.0	1013	5317	2.8800	*
	42.0	3326		52.5	1017	5321	2.7905	*
	44.0	3385		55.0	1020	5325	2.7091	*
	46.0	3435		57.5	1024	5329	2.6348	*
	48.0	3488		60.0	1027	5332	2.5667	*
	50.0	3539		62.5	1031	5335	2.5040	*
	52.0	3591		65.0	1034	5339	2.4462	*
	54.0	3642		67.5	1037	5341	2.3926	*
	56.0	3688		70.0	1039	5344	2.3429	*
	58.0	3734		72.5	1042	5347	2.2966	*
	60.0	3778		75.0	1045	5349	2.2533	*
	62.0	3821		77.5	1047	5352	2.2129	*
	64.0	3864		80.0	1049	5354	2.1750	*
	66.0	3905		82.5	1051	5356	2.1394	*
	68.0	3946		85.0	1054	5358	2.1059	*
	70.0	3984		87.5	1056	5361	2.0743	*
	72.0	4019		90.0	1058	5362	2.0444	*
	74.0	4054		92.5	1059	5364	2.0162	*
	76.0	4087		95.0	1061	5366	1.9895	*
	78.0	4122		97.5	1063	5368	1.9641	*
	80.0	4154		100.0	1065	5370	1.9400	*
	82.0	4184		102.5	1066	5371	1.9171	*
	84.0	4218		105.0	1068	5373	1.8952	*
	86.0	4249		107.5	1069	5374	1.8744	*
	88.0	4279		110.0	1071	5376	1.8545	*

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

CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /0
DST# 1
Recorder# R85

Build-up and Flow Curve Increments

Flow# 2

<i>Chart Label</i>	<i>Time (min)</i>	<i>Pressure (kPag)</i>
6	90.0	4305

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 Extrap</i>
7	112.5	1072	5377	1.8356	*
	115.0	1073	5378	1.8174	*
	117.5	1075	5380	1.8000	*
	119.5	1076	5381	1.7866	*

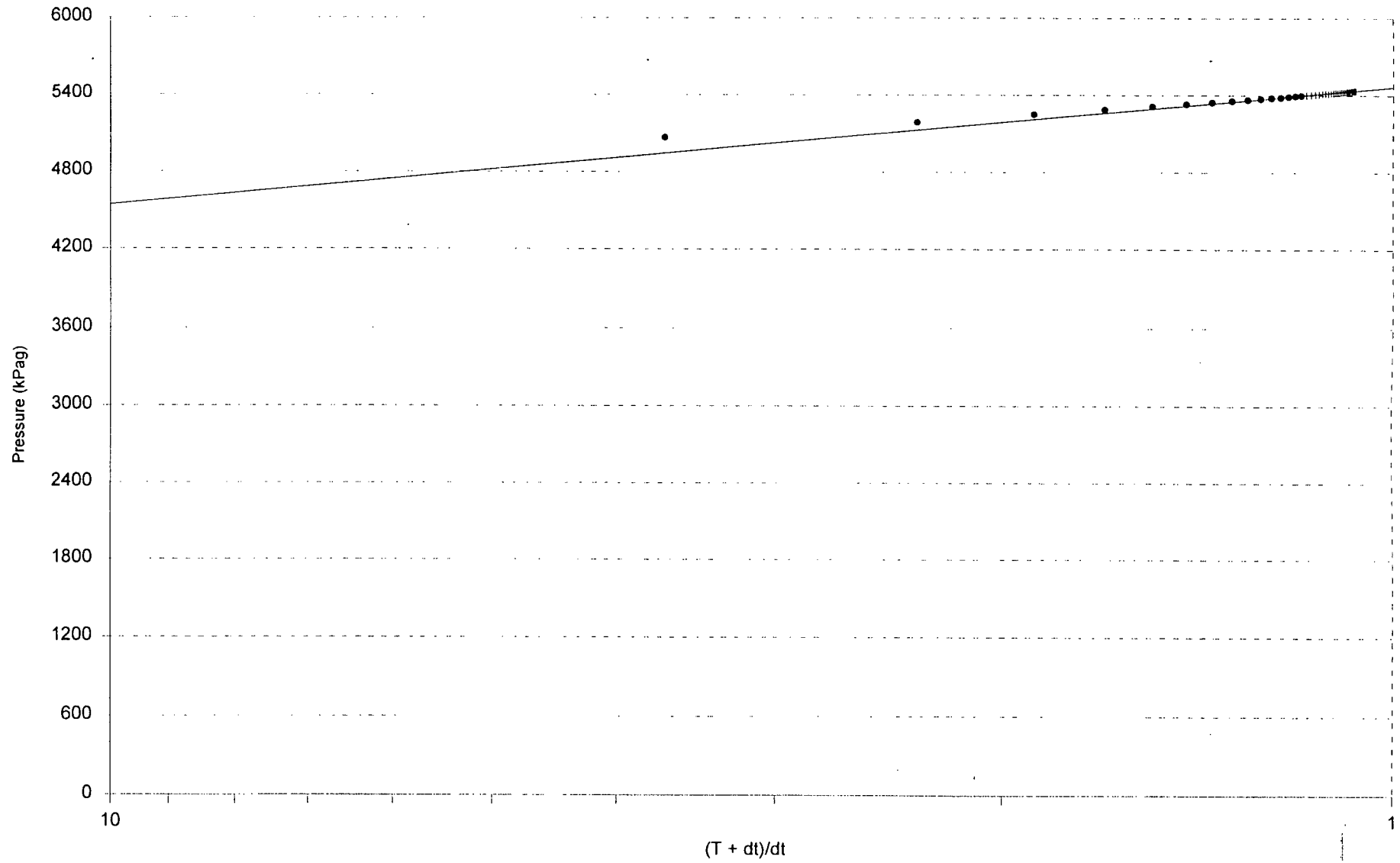
Horner Extrapolation:

<i>Shut-in#</i>	<i>Extrapolated Pressure (kPag)</i>	<i>Extrapolated Slope ((kPag/cycle)</i>
1	5461.2	920.35385
2	5457.5	305.64319

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

CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 / 0
DST #: 1
Recorder: R85

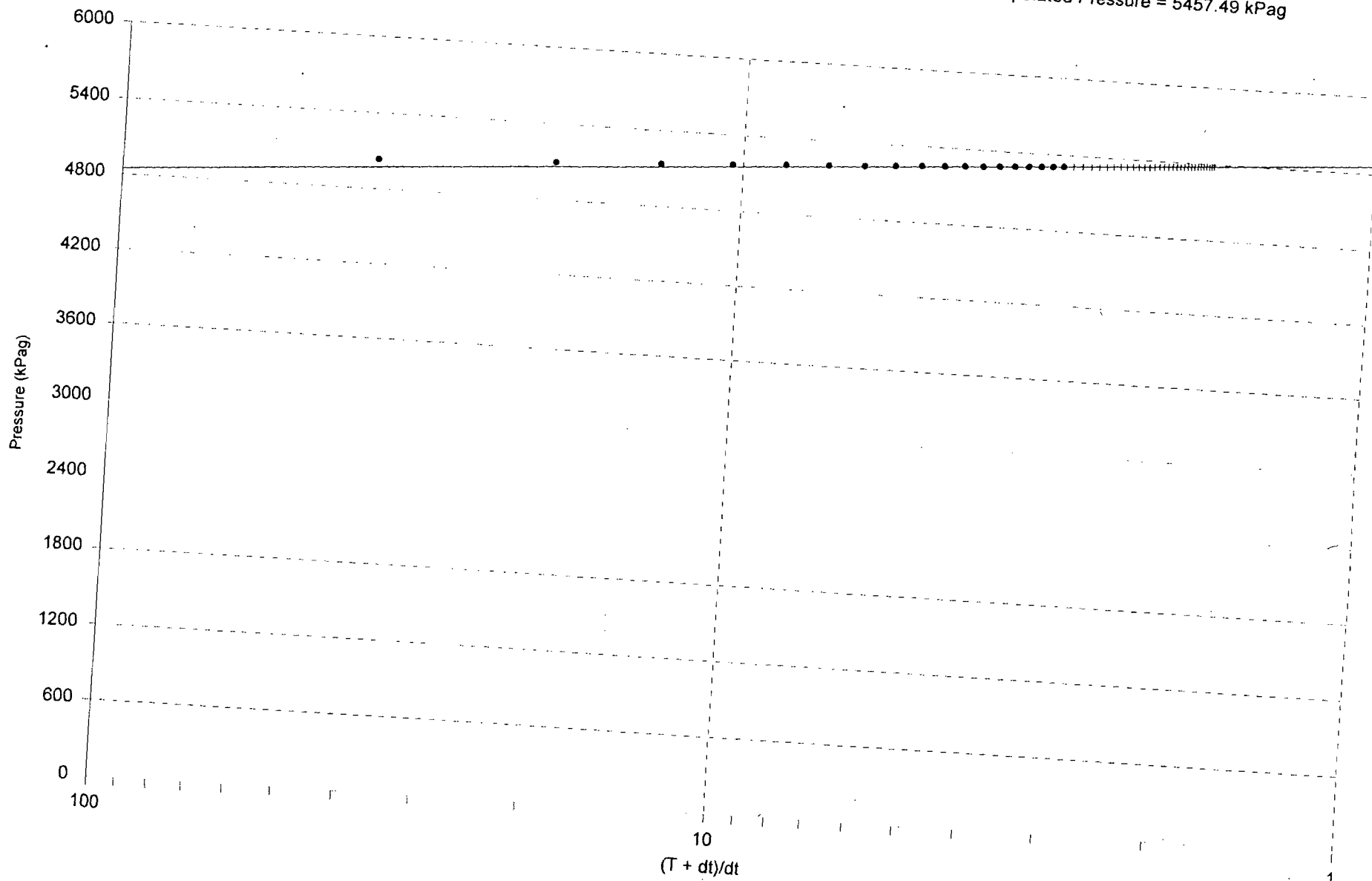
Shut-in #1
Slope = 920.35 kPag/cycle
Extrapolated Pressure = 5461.19 kPag



CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 / 0
DST #: 1
Recorder: R85

Shut-in #2
Slope = 305.64 kPag/cycle
Extrapolated Pressure = 5457.49 kPag

BAKER OIL TOOLS / LYNES DRILL STEM TESTING

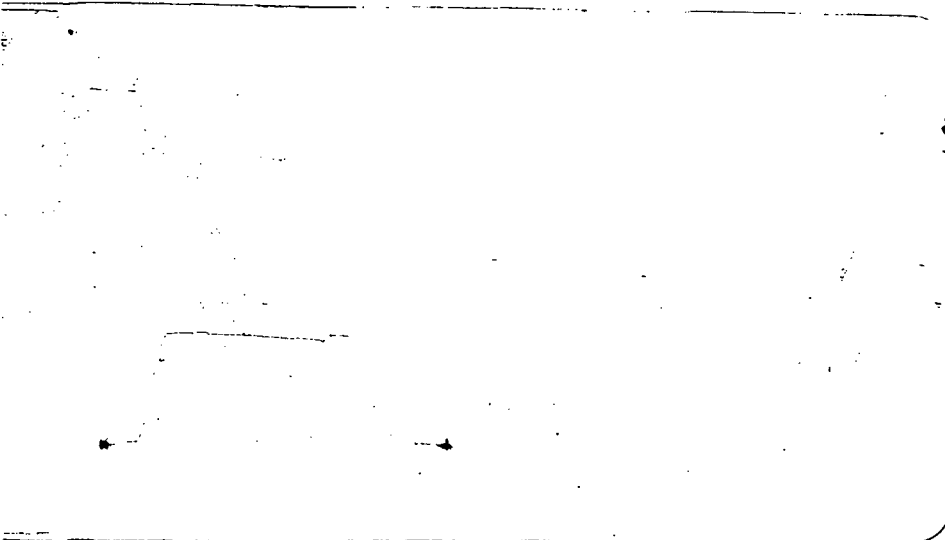


CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /0
DST# 1

Recorder# 19531

Depth: 609.00 m
Location: Below Straddle

Recorder Type: K-3
Capacity: 22,400 kPag
Comments: Below interval

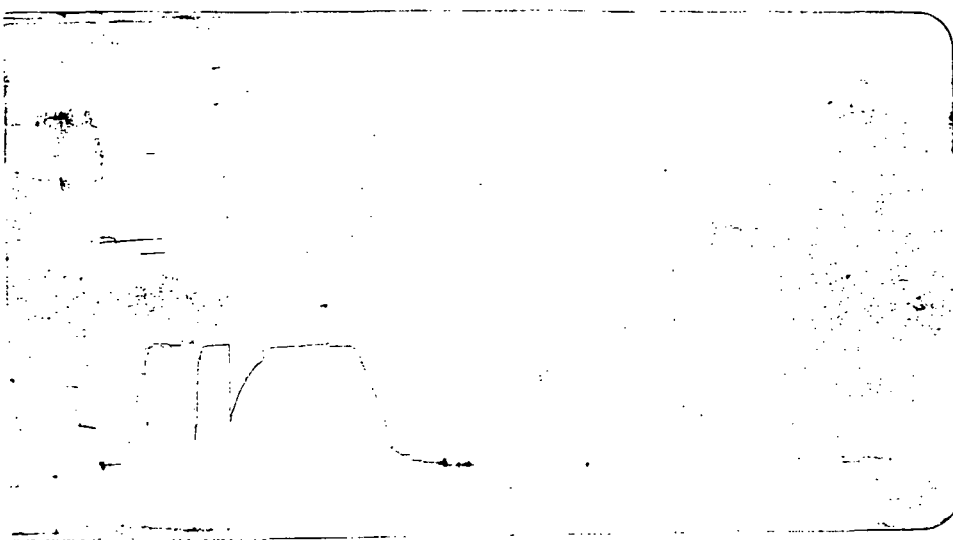


		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	6423	
14	Final Hydrostatic	6109	

Recorder# 9487

Depth: 596.00 m
Location: Outside

Recorder Type: K-3
Capacity: 20,700 kPag



		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	6316	
2	Start of 1st Flow	714	
3	End of 1st Flow	1327	4.0
4	End of 1st Shut-in	5427	59.0
5	Start of 2nd Flow	1215	
6	End of 2nd Flow	4242	90.0
7	End of 2nd Shut-in	5379	119.5
14	Final Hydrostatic	6114	

CHEVRON ET AL MCKAY LAKES O-80

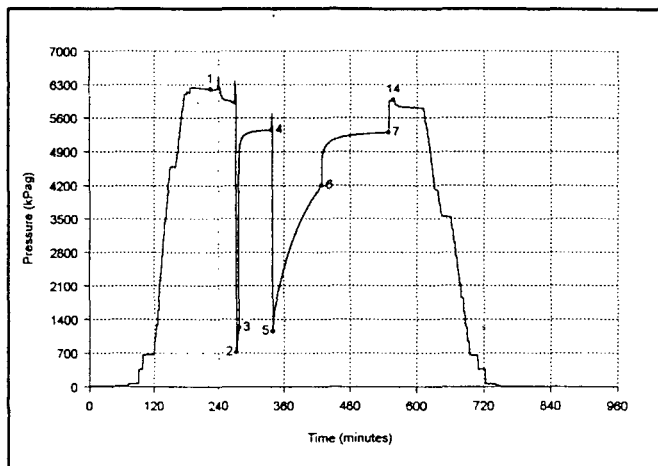
00/ 60.200 / 123.150 /0

DST# 1

Recorder# N37

Depth: 585.00 m
 Temperature: 30.6 C
 Location: Inside

Recorder Type: ZI
 Capacity: 41,400 kPag
 Comments: Above interval

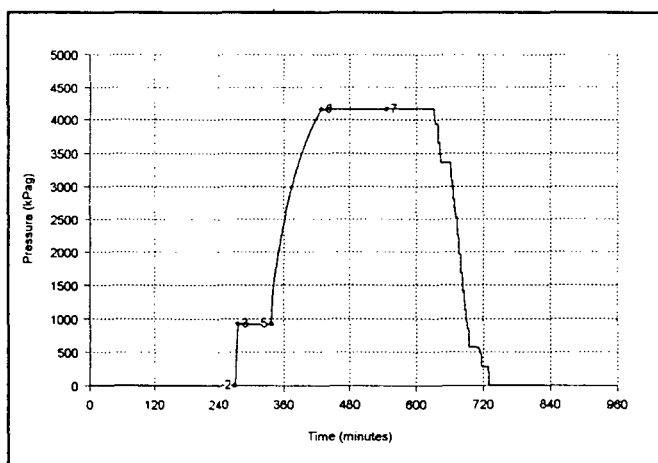


		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	6191	
2	Start of 1st Flow	720	
3	End of 1st Flow	1216	4.0
4	End of 1st Shut-in	5340	59.0
5	Start of 2nd Flow	1148	
6	End of 2nd Flow	4195	90.0
7	End of 2nd Shut-in	5288	119.5
14	Final Hydrostatic	5973	

Recorder# N63

Depth: 580.00 m
 Temperature: 30.8 C
 Location: Fluid Recovery

Recorder Type: ZI
 Capacity: 41,400 kPag
 Comments: Recovery recorder



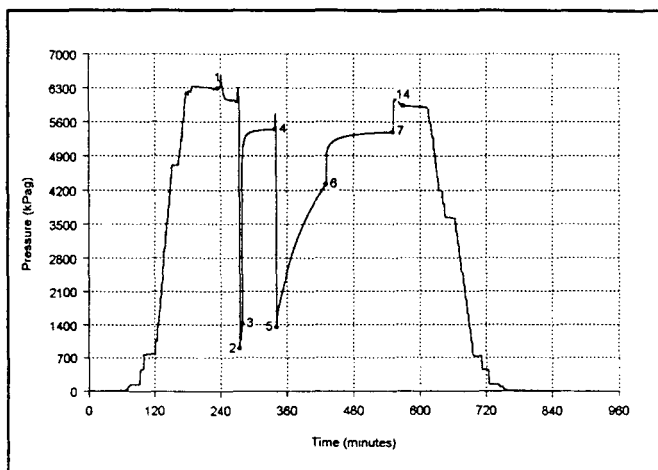
		Pressure (kPag)	Time (min)
2	Start of 1st Flow	0	
3	End of 1st Flow	913	4.0
5	Start of 2nd Flow	914	
6	End of 2nd Flow	4151	90.0
7	End of 2nd Shut-in	4152	119.5

CHEVRON ET AL MCKAY LAKES O-80
00/ 60.200 / 123.150 /0
DST# 1

Recorder# R85

Depth: 596.00 m
Temperature: 30.7 C
Location: Outside

Recorder Type: ZI
Capacity: 68,900 kPag



		Pressure (kPag)	Time (min)
1	Initial Hydrostatic	6278	
2	Start of 1st Flow	891	
3	End of 1st Flow	1415	4.0
4	End of 1st Shut-in	5435	59.0
5	Start of 2nd Flow	1339	
6	End of 2nd Flow	4305	90.0
7	End of 2nd Shut-in	5381	119.5
14	Final Hydrostatic	5930	