

GOVERNMENT

Sub-Surface Pressure Report

Ranger Oil Limited

Flow & Build-Up

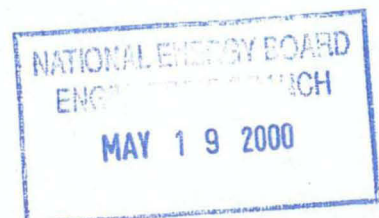
Ranger Ft. Liard

P-66-A

Jul 29, 99 to Aug 24, 99



**7449 - 49 Avenue Crescent
Red Deer, Alberta T4P 1X6**

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Ranger Oil Limited

Flow & Build-Up

Ranger Ft. Liard

P-66-A

Jul 29, 99 to Aug 24, 99

Service Company Contact Info

Report Writer	Wade Nicks, 309-7940	Service Company	Lee Tool, Div. of Schlumberger
Operator	Bonnett's Wireline Services Ltd., (250) 787-3020	Job ID	Ranger extended
		Test Date	Jul 29, 99 to Aug 24, 99

Gauge: Lee Memory Recorder Model 3000s (Quartz)
Manufacturer: Lee Tool, Division of Schlumberger Canada Limited

Flow & Build-Up

Ranger Oil Limited
Alberta, Canada

Jul 29, 99 to Aug 24, 99

Ranger Ft. Liard

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Liard, Nihanni

Well			
Client	Ranger Oil Limited		Province Alberta
Well Name	Ranger Ft. Liard		Country Canada
Well No.	P-66-A		Deviated Well Yes
Field	Liard	Pool Nihanni	Well Status Gas
			KB Elevation 459.89 m
			CF Elevation 449.49 m
			Pool Datum

Test						
Test Type				Flow & Build-Up		Atmospheric
				101.30 KPa A		
Test Start (mm/dd/yy)		Test Finish		Casing ID		Tubing ID
07/29/99		02:32 PM		08/24/99 10:34 PM		88.90 mm
On Bottom		Off Bottom		C. Pres. Before		T. Pres. Before
07/29/99		04:26 PM		08/29/99 03:14 PM		21460.00 KPa G
Shut in		ETO		C. Pres. After		T. Pres. After
08/08/99		09:00 PM		07/29/99 02:32 PM		
	Meas. Depth [mCF]	TVD [mCF]	Est. Pressure [KPa G]	Est. Gradient [KPa/m]	Est. Temperature [DegC]	Grad. Threshold
Well Datum						Grad. Recorder
Landed Depth	2954.00	2575.48				
Avg. MPP Depth	3133.10	2703.82				
Operator				Service Company		
Bonnett's Wireline Services Ltd., (250) 787-3020				Lee Tool, Div. of Schlumberger		
Remarks						
Tool Quit on August 24/99 @ 22:34 p.m.						

Depth References		
Depth Reference	Offset [m]	Elevation [mMSL]
Casing Flange (CF)		449.49
Kelly Bushing (KB)	CF + 10.40	459.89

Perforations				
Perf Top MD, [mCF]	Perf Bottom MD, [mCF]	MPP TVD, [mCF]	Pressure	Gradient
3104.60	3161.60	2703.82		

Top Recorder			
Model	LyR-3000S	Serial	lmr49902
Max. Rated Press.	110213.85 KPa G	Latest Calibration	01/01/70
		Max. Rated Temp.	175.00 DegC

Bottom Hole Pressure				
	Tool String MD, [mCF]	Sample R/T [mmm dd, yy 24 hr.]	Pressure [KPa G]	
Sample 1	2954.00			
Sample 2				
Difference:				Build Up Rate

Recorder 2

Model	LMR-4000S	Serial	LMR49901	Latest Calibration	04/21/99
Max. Rated Press.	110213.79 KPa G	Max. Rated Temp.	174.96 DegC		

Bottom Hole Pressure

	Tool String MD, [mCF]	Sample R/T [mmm dd, yy 24 hr.]	Pressure [KPa G]	
Sample 1	2954.00			
Sample 2				
Difference:				Build Up Rate

Bottom Recorder

Model	LMR-3000S	Serial	9502Q-16E	Latest Calibration	11/28/98
Max. Rated Press.	110213.34 KPa G	Max. Rated Temp.	174.96 DegC		

Bottom Hole Pressure

	Tool String MD, [mCF]	Sample R/T [mmm dd, yy 24 hr.]	Pressure [KPa G]	
Sample 1	2954.00			
Sample 2				
Difference:				Build Up Rate

Deviated Well Survey

Meas. Depth [mCF]	Inclination [Degrees]	TVD [mCF]
0.00	0.00	0.00
199.00	0.50	199.00
2950.00	46.10	2572.71
2959.00	46.40	2578.93
2969.00	46.30	2585.83
3122.00	40.40	2695.22
3138.00	36.90	2707.72
3157.00	37.00	2722.90

Tool Summary

Ranger Oil Limited
Alberta, Canada

Jul 29, 99 to Aug 24, 99

Ranger Ft. Liard

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Liard, Nihanni

Top Recorder			
Tool	Serial	Latest Calibration	Battery Serial
LyR-3000S	lmr49902	01/01/70	150 C
Landed Depth	Depth Offset	Min. Battery	
2951.00 mCF	-3.00 m	-1.#J V	

Program: Ranger30day												
Intervals					Expected Samples			Actual Samples				
Mode	Interval [d hh:mm:ss]	Rate [hh:mm:ss]	Delta [KPa]	Periodic [hh:mm:ss]	Regular Samples	Percent Storage	Energy [Ahr]	Regular Samples	Delta Samples	Percent Storage	Energy [Ahr]	Duration [d hh:mm:ss]
HB	30	10			259200	74.2%	5.4747	119087		34.1%	2.5153	13 18:47:50
HB	30	1:00			43200	12.4%	5.1125					
Totals:	60				302400	86.5%	10.5872	119087		34.1%	2.5153	13 18:47:50

Recorder 2			
Tool	Serial	Latest Calibration	Battery Serial
LMR-4000S	LMR49901	04/21/99	150 C
Landed Depth	Depth Offset	Min. Battery	
2952.00 mCF	-2.00 m	0.10 V	

Program: Ranger30day												
Intervals					Expected Samples			Actual Samples				
Mode	Interval [d hh:mm:ss]	Rate [hh:mm:ss]	Delta [KPa]	Periodic [hh:mm:ss]	Regular Samples	Percent Storage	Energy [Ahr]	Regular Samples	Delta Samples	Percent Storage	Energy [Ahr]	Duration [d hh:mm:ss]
HB	30	10			259200	74.2%	5.4747	227670		65.1%	4.8088	26 8:25:00
HB	30	1:00			43200	12.4%	5.1125					
Totals:	60				302400	86.5%	10.5872	227670		65.1%	4.8088	26 8:25:00

Bottom Recorder			
Tool	Serial	Latest Calibration	Battery Serial
LMR-3000S	9502Q-16E	11/28/98	
Landed Depth	Depth Offset	Min. Battery	
2954.00 mCF	0.00 m	0.10 V	

Program												
Mode	Intervals				Expected Samples			Actual Samples				
	Interval [d hh:mm:ss]	Rate [hh:mm:ss]	Delta [KPa]	Periodic [hh:mm:ss]	Regular Samples	Percent Storage	Energy [Ahr]	Regular Samples	Delta Samples	Percent Storage	Energy [Ahr]	Duration [d hh:mm:ss]
HB	10:00	1			600	0.2%	0.0022	600		0.2%	0.0022	10:00
HB	15	10			129600	37.1%	2.7374	129600		37.1%	2.7374	15
HB	60	1:00			86400	24.7%	10.2249	9701		2.8%	1.1481	6 17:41:00
Totals:	75 10:00				216600	62.0%	12.9644	139901		40.0%	3.8876	21 17:51:00

Calibration Summary

Ranger Oil Limited
Alberta, Canada

Jul 29, 99 to Aug 24, 99

Ranger Ft. Liard

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Liard, Nihanni

Top Recorder			
Tool	Serial	Latest Calibration	Battery Serial
Lyr-3000S	lmr49902	01/01/70	150 C
Landed Depth	Depth Offset	Min. Battery	
2951.00 mCF	-3.00 m	-1.#J V	

Equations			
FP = Pres Freq (Hz) FT = Temp Freq (Hz) $XP = 2.473000e+004 + (1.000000e-002) FP$ $XT = 5.132200e+004 + (1.000000e-002) FT$ $P_0 = 1.175431e+001 + (-8.070629e-001) XT + (-2.188418e-002) XT^2 + (9.248426e-006) XT^3$ $P_1 = 4.655417e+001 + (-2.262040e-002) XT + (2.874971e-005) XT^2 + (-5.957688e-008) XT^3$ $P_2 = -1.767792e-003 + (1.019494e-005) XT + (-4.130800e-008) XT^2 + (4.885289e-011) XT^3$ $P_3 = 6.292336e-007 + (-6.050031e-010) XT + (5.613726e-011) XT^2 + (4.622830e-014) XT^3$ Pressure (psiA) = $P_0 + P_1 XP + P_2 XP^2 + P_3 XP^3$ $T_0 = 2.483780e+001$ $T_1 = -7.277677e-001$ $T_2 = -8.535837e-004$ $T_3 = -6.863757e-007$ Temperature (degC) = $T_0 + T_1 XT + T_2 XT^2 + T_3 XT^3$			

Recorder 2			
Tool	Serial	Latest Calibration	Battery Serial
LMR-4000S	LMR49901	04/21/99	150 C
Landed Depth	Depth Offset	Min. Battery	
2952.00 mCF	-2.00 m	0.10 V	

Equations			
FP = Pres Freq (Hz) FT = Temp Freq (Hz) $XP = 2.400800e+004 + (1.000000e-002) FP$ $XT = 4.788000e+004 + (1.000000e-002) FT$ $P_0 = 1.988735e+001 + (-1.167790e+000) XT + (-2.228564e-002) XT^2 + (1.169695e-006) XT^3 + (-1.480677e-008) XT^4$ $P_1 = 4.390188e+001 + (-2.212298e-002) XT + (3.165288e-005) XT^2 + (7.900083e-009) XT^3 + (1.597057e-010) XT^4$ $P_2 = -1.764029e-003 + (1.428218e-005) XT + (-3.656165e-008) XT^2 + (-2.178743e-010) XT^3 + (-8.307616e-013) XT^4$ $P_3 = 5.969450e-007 + (-9.967290e-009) XT + (9.106598e-012) XT^2 + (2.979492e-013) XT^3 + (1.127216e-015) XT^4$ Pressure (psiA) = $P_0 + P_1 XP + P_2 XP^2 + P_3 XP^3$ $T_0 = 2.580718e+001$ $T_1 = -7.309891e-001$ $T_2 = -8.284541e-004$ $T_3 = -6.064924e-007$ Temperature (degC) = $T_0 + T_1 XT + T_2 XT^2 + T_3 XT^3$			

Bottom Recorder			
Tool	LMR-3000S	Serial	9502Q-16E
		Latest Calibration	11/28/98
Landed Depth	2954.00 mCF	Depth Offset	0.00 m
		Min. Battery	0.10 V

Equations
FP = Pres Freq (Hz) FT = Temp Freq (Hz) $XP = 1.938500e+004 + (1.000000e-002) FP$ $XT = 4.770900e+004 + (1.000000e-002) FT$ $P_0 = 1.953372e+001 + (-1.200032e+000) XT + (-2.172789e-002) XT^2 + (-1.011883e-006) XT^3 + (-1.975025e-008) XT^4$ $P_1 = 4.271474e+001 + (-2.265985e-002) XT + (2.999324e-005) XT^2 + (4.096047e-008) XT^3 + (2.514522e-010) XT^4$ $P_2 = -1.644208e-003 + (1.558679e-005) XT + (-6.094425e-008) XT^2 + (-5.169452e-010) XT^3 + (-1.459151e-012) XT^4$ $P_3 = 3.314725e-007 + (-8.980239e-009) XT + (9.921004e-011) XT^2 + (1.019436e-012) XT^3 + (2.492994e-015) XT^4$ $Pressure (psiA) = P_0 + P_1 XP + P_2 XP^2 + P_3 XP^3$ $T_0 = 2.507865e+001$ $T_1 = -7.197898e-001$ $T_2 = -6.564610e-004$ $T_3 = -1.370481e-007$ $Temperature (degC) = T_0 + T_1 XT + T_2 XT^2 + T_3 XT^3$

Recorded Data

Ranger Oil Limited
Alberta, Canada

Jul 29, 99 to Aug 24, 99

Ranger Ft. Liard

P-66-A

Liard, Nihanni

Data						
LMR49901	LMR49901	lmr49902	9502Q-16E	LMR49901		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
Jul 29, 99 14:32:00	0:00:00:00	-6.106	-6.019	-13.782	15.81	
14:40:00	0:00:08:00	10.538	-5.621	-12.896	16.12	9502Q-16E Bottom Recorder
14:41:00	0:00:09:00	10.206	-5.828	-12.943	15.94	LMR 49901
14:42:00	0:00:10:00	10.495	-5.731	-13.150	15.76	LMR 49902
15:42:00	0:01:10:00	23810.270	23756.592	23811.675	75.96	
16:42:00	0:02:10:00	25953.422	25948.570	25951.924	146.83	
17:42:00	0:03:10:00	25977.960	25974.180	25975.295	147.14	
18:42:00	0:04:10:00	25994.226	25990.718	25991.403	147.08	
19:42:00	0:05:10:00	26009.111	26005.358	26005.847	147.01	
20:42:00	0:06:10:00	26022.561	26018.291	26018.700	146.94	
21:42:00	0:07:10:00	26034.897	26030.751	26031.042	146.88	
22:42:00	0:08:10:00	26046.081	26041.995	26042.256	146.83	
23:42:00	0:09:10:00	26056.622	26052.379	26052.455	146.77	
Jul 30, 99 00:42:00	0:10:10:00	26066.365	26061.980	26062.012	146.73	
01:42:00	0:11:10:00	26075.422	26070.961	26071.067	146.69	
02:42:00	0:12:10:00	26083.980	26079.468	26079.476	146.66	
03:42:00	0:13:10:00	26091.825	26087.265	26087.245	146.63	
04:42:00	0:14:10:00	26099.405	26094.667	26094.617	146.60	
05:42:00	0:15:10:00	26106.431	26101.633	26101.660	146.58	
06:42:00	0:16:10:00	26112.985	26108.184	26108.236	146.56	
07:42:00	0:17:10:00	26119.341	26114.404	26114.448	146.54	
08:42:00	0:18:10:00	26125.250	26120.407	26120.298	146.52	
09:42:00	0:19:10:00	24780.895	24776.574	24776.974	149.25	
10:42:00	0:20:10:00	24671.268	24667.446	24668.915	150.37	
11:42:00	0:21:10:00	24600.949	24597.814	24599.149	150.65	
12:42:00	0:22:10:00	24567.838	24563.602	24564.811	150.83	
13:42:00	0:23:10:00	24552.072	24548.373	24548.761	150.94	
14:42:00	1:00:10:00	24539.170	24535.317	24536.846	151.02	
15:42:00	1:01:10:00	24528.300	24524.706	24526.403	151.08	
16:42:00	1:02:10:00	24523.110	24518.805	24520.409	151.13	
17:42:00	1:03:10:00	24503.860	24500.401	24502.551	151.18	
18:42:00	1:04:10:00	24493.025	24489.588	24492.158	151.21	
19:42:00	1:05:10:00	24488.174	24484.213	24486.414	151.25	
20:42:00	1:06:10:00	24478.306	24474.487	24476.316	151.27	
21:42:00	1:07:10:00	23946.159	23945.014	23949.670	151.36	
22:42:00	1:08:10:00	23871.903	23870.193	23875.398	151.43	
23:42:00	1:09:10:00	23845.748	23844.165	23849.008	151.46	
Jul 31, 99 00:42:00	1:10:10:00	23825.729	23823.724	23828.679	151.48	
01:42:00	1:11:10:00	23811.557	23809.688	23814.829	151.49	
02:42:00	1:12:10:00	23799.080	23796.458	23801.686	151.50	
03:42:00	1:13:10:00	23787.493	23785.265	23790.466	151.51	
04:42:00	1:14:10:00	23777.128	23774.420	23779.441	151.52	
05:42:00	1:15:10:00	23769.323	23766.515	23771.744	151.53	
06:42:00	1:16:10:00	23760.825	23757.371	23761.907	151.53	
07:42:00	1:17:10:00	23750.408	23747.947	23752.481	151.54	
08:42:00	1:18:10:00	23744.463	23741.181	23746.174	151.55	
09:42:00	1:19:10:00	22505.731	22512.086	22523.829	151.51	
10:42:00	1:20:10:00	22330.499	22336.927	22348.452	151.54	
11:42:00	1:21:10:00	22258.447	22265.341	22278.323	151.54	

Data						
LMR49901	LMR49901	Imr49902	9502Q-16E	LMR49901		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
12:42:00	1:22:10:00	22211.500	22217.438	22229.816	151.53	
13:42:00	1:23:10:00	22167.436	22173.246	22186.101	151.51	
14:42:00	2:00:10:00	22138.095	22144.278	22156.712	151.50	
15:42:00	2:01:10:00	22110.295	22116.527	22128.975	151.49	
16:42:00	2:02:10:00	22086.336	22092.695	22105.295	151.47	
17:42:00	2:03:10:00	22064.939	22070.734	22083.025	151.46	
18:42:00	2:04:10:00	22046.901	22052.338	22065.121	151.44	
19:42:00	2:05:10:00	22029.184	22034.283	22048.109	151.43	
20:42:00	2:06:10:00	22013.388	22018.659	22032.038	151.41	
21:42:00	2:07:10:00	22677.440	22678.959	22688.255	151.43	
22:42:00	2:08:10:00	22750.756	22752.519	22760.875	151.44	
23:42:00	2:09:10:00	22779.607	22780.768	22789.830	151.45	
Aug 01, 99 00:42:00	2:10:10:00	22788.971	22791.638	22800.156	151.44	
01:42:00	2:11:10:00	22791.794	22793.626	22801.286	151.44	
02:42:00	2:12:10:00	22790.999	22792.879	22800.884	151.44	
03:42:00	2:13:10:00	22790.101	22791.838	22799.498	151.45	
04:42:00	2:14:10:00	22787.283	22789.324	22797.066	151.45	
05:42:00	2:15:10:00	22783.933	22785.790	22793.911	151.45	
06:42:00	2:16:10:00	22780.208	22781.978	22789.872	151.46	
07:42:00	2:17:10:00	22776.537	22778.165	22786.811	151.46	
08:42:00	2:18:10:00	22772.278	22774.358	22782.610	151.46	
09:42:00	2:19:10:00	22768.500	22769.752	22778.046	151.47	
10:42:00	2:20:10:00	22764.026	22765.600	22773.320	151.47	
11:42:00	2:21:10:00	22759.873	22761.226	22768.803	151.47	
12:42:00	2:22:10:00	22754.759	22756.291	22763.500	151.47	
13:42:00	2:23:10:00	22749.750	22751.577	22759.503	151.48	
14:42:00	3:00:10:00	22745.863	22747.321	22754.460	151.48	
15:42:00	3:01:10:00	22741.760	22743.060	22750.719	151.48	
16:42:00	3:02:10:00	22738.406	22739.876	22747.190	151.48	
17:42:00	3:03:10:00	22734.141	22735.224	22743.084	151.48	
18:42:00	3:04:10:00	22730.465	22731.541	22739.134	151.48	
19:42:00	3:05:10:00	22725.029	22726.373	22734.195	151.48	
20:42:00	3:06:10:00	22719.222	22720.644	22728.476	151.49	
21:42:00	3:07:10:00	22715.386	22717.295	22724.786	151.49	
22:42:00	3:08:10:00	22712.722	22714.003	22721.929	151.49	
23:42:00	3:09:10:00	22709.313	22710.144	22717.615	151.49	
Aug 02, 99 00:42:00	3:10:10:00	22704.461	22704.812	22713.456	151.49	
01:42:00	3:11:10:00	22700.252	22701.349	22708.882	151.49	
02:42:00	3:12:10:00	22696.204	22696.810	22705.452	151.49	
03:42:00	3:13:10:00	22691.832	22691.988	22700.977	151.49	
04:42:00	3:14:10:00	22688.262	22689.154	22696.507	151.49	
05:42:00	3:15:10:00	22683.626	22684.780	22692.608	151.49	
06:42:00	3:16:10:00	22678.721	22679.849	22688.550	151.49	
07:42:00	3:17:10:00	22675.418	22676.613	22684.443	151.50	
08:42:00	3:18:10:00	22672.432	22672.646	22680.905	151.50	
09:42:00	3:19:10:00	22668.222	22668.844	22677.163	151.50	
10:42:00	3:20:10:00	22663.691	22665.098	22672.688	151.50	
11:42:00	3:21:10:00	22660.760	22661.409	22669.414	151.50	
12:42:00	3:22:10:00	22657.084	22657.385	22666.140	151.50	
13:42:00	3:23:10:00	22653.512	22653.696	22661.665	151.50	
14:42:00	4:00:10:00	22650.368	22651.315	22658.755	151.50	
15:42:00	4:01:10:00	22646.476	22647.626	22655.217	151.50	
16:42:00	4:02:10:00	22642.373	22643.432	22651.631	151.50	
17:42:00	4:03:10:00	22639.176	22639.686	22647.884	151.50	
18:42:00	4:04:10:00	22635.495	22636.229	22643.929	151.50	
19:42:00	4:05:10:00	22632.403	22632.885	22641.327	151.50	
20:42:00	4:06:10:00	22628.353	22628.629	22636.909	151.50	
21:42:00	4:07:10:00	22625.262	22625.682	22633.895	151.50	

Data

LMR49901		LMR49901	lmr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
	22:42:00	22622.437	22622.616	22630.668	151.50	
	23:42:00	22618.545	22619.272	22627.026	151.50	
Aug 03, 99	00:42:00	22615.186	22615.645	22623.799	151.50	
	01:42:00	22611.933	22613.038	22621.146	151.50	
	02:42:00	22608.095	22609.065	22616.879	151.50	
	03:42:00	22605.751	22606.226	22614.385	151.50	
	04:42:00	22600.259	22601.584	22609.754	151.50	
	05:42:00	22598.446	22598.632	22606.735	151.50	
	06:42:00	22595.512	22595.973	22604.441	151.50	
	07:42:00	22593.170	22592.902	22601.276	151.51	
	08:42:00	22589.809	22589.960	22598.357	151.50	
	09:42:00	22586.930	22587.466	22595.599	151.50	
	10:42:00	22584.054	22584.111	22592.637	151.51	
	11:42:00	22581.760	22581.680	22589.931	151.51	
	12:42:00	22577.175	22577.826	22586.028	151.51	
	13:42:00	22574.722	22575.326	22582.754	151.51	
	14:42:00	22571.736	22572.039	22579.263	151.51	
	15:42:00	22568.377	22568.871	22576.401	151.51	
	16:42:00	22565.233	22565.799	22573.439	151.51	
	17:42:00	22562.299	22562.461	22570.625	151.51	
	18:42:00	22557.982	22558.777	22566.518	151.51	
	19:42:00	22555.901	22556.566	22564.016	151.51	
	20:42:00	22553.073	22553.052	22561.101	151.50	
	21:42:00	22549.929	22550.615	22557.775	151.51	
	22:42:00	22546.570	22547.498	22555.381	151.51	
	23:42:00	22544.118	22543.865	22552.519	151.51	
Aug 04, 99	00:42:00	22541.080	22541.088	22548.984	151.51	
	01:42:00	22537.984	22538.543	22546.270	151.50	
	02:42:00	22534.680	22536.043	22543.308	151.51	
	03:42:00	22532.283	22532.983	22540.606	151.51	
	04:42:00	22530.040	22530.041	22537.844	151.50	
	05:42:00	22527.802	22527.655	22535.554	151.51	
	06:42:00	22525.028	22525.564	22532.223	151.50	
	07:42:00	22522.469	22522.220	22530.294	151.50	
	08:42:00	22519.803	22519.499	22527.800	151.50	
	09:42:00	22517.936	22517.459	22525.037	151.50	
	10:42:00	22515.377	22514.738	22523.060	151.50	
	11:42:00	22512.764	22513.208	22520.358	151.50	
	12:42:00	22511.270	22511.054	22519.053	151.50	
	13:42:00	22509.085	22509.070	22516.819	151.50	
	14:42:00	22507.164	22506.180	22514.577	151.50	
	15:42:00	22505.565	22506.066	22513.120	151.50	
	16:42:00	22503.860	22503.850	22511.875	151.50	
	17:42:00	22501.619	22501.475	22509.841	151.50	
	18:42:00	22498.632	22498.471	22506.975	151.50	
	19:42:00	22497.620	22497.338	22504.901	151.50	
	20:42:00	22495.594	22495.127	22502.712	151.50	
	21:42:00	22491.913	22491.727	22499.533	151.50	
	22:42:00	22488.609	22487.532	22495.426	151.50	
	23:42:00	22480.238	22480.391	22487.880	151.50	
Aug 05, 99	00:42:00	22472.825	22472.116	22480.850	151.50	
	01:42:00	22472.078	22470.472	22479.293	151.50	
	02:42:00	22469.304	22468.891	22476.478	151.50	
	03:42:00	22466.265	22465.943	22474.189	151.50	
	04:42:00	22463.865	22464.696	22472.311	151.50	
	05:42:00	22461.144	22461.358	22468.928	151.50	
	06:42:00	22458.532	22458.014	22465.962	151.50	
	07:42:00	22455.546	22455.123	22462.735	151.50	

Data						
LMR49901		LMR49901	lmr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
08:42:00	6:18:10:00	22453.521	22452.964	22461.230	151.50	
09:42:00	6:19:10:00	22450.533	22450.419	22458.312	151.50	
10:42:00	6:20:10:00	22448.719	22448.384	22456.070	151.50	
11:42:00	6:21:10:00	22445.573	22445.437	22453.051	151.50	
12:42:00	6:22:10:00	22443.014	22441.917	22449.668	151.50	
13:42:00	6:23:10:00	22439.334	22439.542	22447.066	151.50	
14:42:00	7:00:10:00	22435.709	22436.141	22443.683	151.50	
15:42:00	7:01:10:00	22434.056	22433.591	22441.658	151.50	
16:42:00	7:02:10:00	22430.000	22430.139	22437.590	151.50	
17:42:00	7:03:10:00	22428.561	22427.532	22435.977	151.50	
18:42:00	7:04:10:00	22425.841	22424.698	22433.063	151.50	
19:42:00	7:05:10:00	22422.535	22421.870	22430.404	151.50	
20:42:00	7:06:10:00	22420.616	22419.766	22427.286	151.50	
21:42:00	7:07:10:00	22417.203	22417.448	22424.576	151.50	
22:42:00	7:08:10:00	22415.229	22414.501	22422.546	151.50	
23:42:00	7:09:10:00	22411.709	22412.120	22419.319	151.50	
Aug 06, 99 00:42:00	7:10:10:00	22409.843	22409.740	22418.018	151.50	
01:42:00	7:11:10:00	22407.497	22407.535	22415.204	151.50	
02:42:00	7:12:10:00	22405.309	22404.191	22412.289	151.49	
03:42:00	7:13:10:00	22403.335	22401.816	22410.568	151.49	
04:42:00	7:14:10:00	22402.965	22401.640	22409.947	151.50	
05:42:00	7:15:10:00	22404.243	22404.197	22412.289	151.49	
06:42:00	7:16:10:00	22403.283	22403.007	22410.676	151.49	
07:42:00	7:17:10:00	22401.469	22400.456	22408.278	151.49	
08:42:00	7:18:10:00	22399.817	22398.013	22406.304	151.49	
09:42:00	7:19:10:00	22395.550	22395.241	22402.605	151.49	
10:42:00	7:20:10:00	22392.724	22392.350	22400.315	151.49	
11:42:00	7:21:10:00	22390.111	22389.630	22397.192	151.49	
12:42:00	7:22:10:00	22385.898	22385.435	22393.497	151.49	
13:42:00	7:23:10:00	22383.286	22383.225	22390.218	151.49	
14:42:00	8:00:10:00	22379.820	22379.087	22386.627	151.49	
15:42:00	8:01:10:00	22376.779	22376.542	22384.438	151.49	
16:42:00	8:02:10:00	22375.551	22374.331	22382.508	151.49	
17:42:00	8:03:10:00	22372.193	22371.837	22379.333	151.49	
18:42:00	8:04:10:00	22371.553	22370.590	22378.661	151.49	
19:42:00	8:05:10:00	22368.032	22367.530	22375.226	151.49	
20:42:00	8:06:10:00	22365.420	22364.078	22372.151	151.49	
21:42:00	8:07:10:00	22362.114	22361.578	22369.080	151.49	
22:42:00	8:08:10:00	22359.446	22359.147	22366.842	151.49	
23:42:00	8:09:10:00	22358.647	22357.327	22365.593	151.49	
Aug 07, 99 00:42:00	8:10:10:00	22356.461	22355.405	22362.887	151.49	
01:42:00	8:11:10:00	22354.167	22353.031	22360.541	151.49	
02:42:00	8:12:10:00	22349.208	22348.723	22356.586	151.49	
03:42:00	8:13:10:00	22345.530	22344.063	22351.957	151.49	
04:42:00	8:14:10:00	22340.837	22340.441	22348.314	151.49	
05:42:00	8:15:10:00	22339.074	22338.639	22346.385	151.49	
06:42:00	8:16:10:00	22337.796	22336.819	22344.199	151.49	
07:42:00	8:17:10:00	22334.382	22333.475	22341.909	151.49	
08:42:00	8:18:10:00	22333.475	22332.234	22340.031	151.49	
09:42:00	8:19:10:00	22331.983	22330.414	22338.265	151.49	
10:42:00	8:20:10:00	22328.357	22327.813	22334.514	151.49	
11:42:00	8:21:10:00	22326.970	22325.199	22333.373	151.49	
12:42:00	8:22:10:00	22324.996	22324.185	22332.328	151.49	
13:42:00	8:23:10:00	22322.648	22322.037	22329.674	151.49	
14:42:00	9:00:10:00	22317.797	22316.992	22325.146	151.49	
15:42:00	9:01:10:00	22315.771	22315.342	22323.168	151.49	
16:42:00	9:02:10:00	22312.677	22311.381	22319.521	151.49	
17:42:00	9:03:10:00	22308.571	22307.305	22315.097	151.49	

Data

LMR49901		LMR49901	lmr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
18:42:00	9:04:10:00	22307.236	22305.882	22313.480	151.49	
19:42:00	9:05:10:00	22305.158	22304.238	22311.402	151.49	
20:42:00	9:06:10:00	22302.918	22301.801	22309.164	151.49	
21:42:00	9:07:10:00	22299.611	22298.463	22306.141	151.49	
22:42:00	9:08:10:00	22298.650	22297.959	22305.413	151.48	
23:42:00	9:09:10:00	22293.265	22291.547	22299.739	151.49	
Aug 08, 99 00:42:00	9:10:10:00	22293.318	22291.604	22299.535	151.49	
01:42:00	9:11:10:00	22290.757	22290.420	22297.446	151.48	
02:42:00	9:12:10:00	22285.530	22284.757	22292.501	151.48	
03:42:00	9:13:10:00	22283.612	22282.370	22290.159	151.48	
04:42:00	9:14:10:00	22281.745	22280.273	22288.702	151.48	
05:42:00	9:15:10:00	22280.732	22279.303	22287.040	151.48	
06:42:00	9:16:10:00	22278.598	22277.275	22284.846	151.48	
07:42:00	9:17:10:00	22275.611	22274.674	22282.084	151.48	
08:42:00	9:18:10:00	22273.051	22271.266	22279.173	151.48	
09:42:00	9:19:10:00	22272.412	22271.430	22279.333	151.48	
10:42:00	9:20:10:00	22272.679	22271.153	22278.653	151.48	
11:42:00	9:21:10:00	22267.132	22265.604	22273.083	151.48	
12:42:00	9:22:10:00	22265.159	22264.527	22272.611	151.48	
13:42:00	9:23:10:00	22261.107	22259.929	22268.035	151.48	
14:42:00	10:00:10:00	22259.184	22258.071	22265.273	151.48	
15:42:00	10:01:10:00	22257.852	22256.421	22264.124	151.48	
16:42:00	10:02:10:00	22255.187	22254.153	22261.629	151.48	
17:42:00	10:03:10:00	22253.159	22251.659	22259.964	151.48	
18:42:00	10:04:10:00	22250.118	22248.491	22256.681	151.48	
19:42:00	10:05:10:00	22249.053	22247.124	22255.539	151.48	
20:42:00	10:06:10:00	22247.131	22245.720	22253.398	151.48	
21:00:00	10:06:28:00	22247.240	22245.594	22665.468	151.48	Well Shut-In Date & Time
22:00:00	10:07:28:00	24278.002	24269.178	24275.365	151.23	
23:00:00	10:08:28:00	24446.831	24437.388	24441.143	150.84	
Aug 09, 99 00:00:00	10:09:28:00	24550.782	24541.428	24543.844	150.48	
01:00:00	10:10:28:00	24626.990	24617.664	24619.537	150.22	
02:00:00	10:11:28:00	24688.047	24678.635	24680.483	150.03	
03:00:00	10:12:28:00	24739.740	24730.281	24731.952	149.88	
04:00:00	10:13:28:00	24784.910	24775.510	24777.098	149.75	
05:00:00	10:14:28:00	24825.325	24815.801	24817.453	149.64	
06:00:00	10:15:28:00	24862.103	24852.631	24854.136	149.54	
07:00:00	10:16:28:00	24896.140	24886.674	24888.175	149.45	
08:00:00	10:17:28:00	24927.562	24918.075	24919.575	149.34	
09:00:00	10:18:28:00	24957.120	24947.511	24949.043	149.25	
10:00:00	10:19:28:00	24984.789	24975.156	24976.647	149.18	
11:00:00	10:20:28:00	25010.849	25001.171	25002.708	149.12	
12:00:00	10:21:28:00	25035.541	25025.787	25027.365	149.07	
13:00:00	10:22:28:00	25058.957	25049.279	25050.884	149.03	
14:00:00	10:23:28:00	25081.248	25071.539	25073.202	148.99	
15:00:00	11:00:28:00	25102.599	25092.840	25094.481	148.95	
16:00:00	11:01:28:00	25123.427	25113.499	25115.116	148.91	
17:00:00	11:02:28:00	25142.950	25133.329	25134.889	148.75	
18:00:00	11:03:28:00	25161.633	25151.756	25153.371	148.73	
19:00:00	11:04:28:00	25179.578	25169.476	25171.314	148.72	
20:00:00	11:05:28:00	25196.751	25186.836	25188.452	148.70	
21:00:00	11:06:28:00	25213.318	25203.406	25205.083	148.68	
22:00:00	11:07:28:00	25229.321	25219.303	25221.079	148.66	
23:00:00	11:08:28:00	25244.826	25234.852	25236.477	148.64	
Aug 10, 99 00:00:00	11:09:28:00	25259.703	25249.788	25251.345	148.62	
01:00:00	11:10:28:00	25274.102	25264.106	25265.705	148.60	
02:00:00	11:11:28:00	25287.969	25277.854	25279.547	148.58	
03:00:00	11:12:28:00	25301.401	25291.259	25293.013	148.56	

Data						
LMR49901	LMR49901	lmr49902	9502Q-16E	LMR49901		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
04:00:00	11:13:28:00	25314.386	25304.221	25305.895	148.54	
05:00:00	11:14:28:00	25326.903	25316.675	25318.375	148.52	
06:00:00	11:15:28:00	25338.942	25328.853	25330.349	148.51	
07:00:00	11:16:28:00	25350.621	25340.466	25342.206	148.49	
08:00:00	11:17:28:00	25362.075	25351.850	25353.570	148.48	
09:00:00	11:18:28:00	25373.074	25362.796	25364.520	148.46	
10:00:00	11:19:28:00	25383.732	25373.509	25375.108	148.45	
11:00:00	11:20:28:00	25394.082	25383.711	25385.526	148.43	
12:00:00	11:21:28:00	25404.082	25393.756	25395.569	148.42	
13:00:00	11:22:28:00	25413.838	25403.552	25405.275	148.40	
14:00:00	11:23:28:00	25423.360	25413.027	25414.748	148.39	
15:00:00	12:00:28:00	25432.510	25422.113	25423.961	148.38	
16:00:00	12:01:28:00	25441.512	25431.087	25432.877	148.36	
17:00:00	12:02:28:00	25449.984	25439.719	25441.521	148.35	
18:00:00	12:03:28:00	25458.498	25448.023	25450.010	148.34	
19:00:00	12:04:28:00	25466.662	25456.376	25458.265	148.33	
20:00:00	12:05:28:00	25474.667	25464.334	25466.197	148.32	
21:00:00	12:06:28:00	25482.490	25472.119	25473.884	148.31	
22:00:00	12:07:28:00	25490.028	25479.524	25481.505	148.30	
23:00:00	12:08:28:00	25497.385	25486.907	25488.815	148.29	
Aug 11, 99 00:00:00	12:09:28:00	25504.404	25494.094	25495.893	148.28	
01:00:00	12:10:28:00	25511.401	25500.932	25502.712	148.27	
02:00:00	12:11:28:00	25518.093	25507.567	25509.495	148.26	
03:00:00	12:12:28:00	25524.771	25514.171	25516.183	148.25	
04:00:00	12:13:28:00	25531.207	25520.674	25522.460	148.25	
05:00:00	12:14:28:00	25537.494	25526.847	25528.775	148.24	
06:00:00	12:15:28:00	25543.558	25533.064	25534.883	148.23	
07:00:00	12:16:28:00	25549.516	25538.951	25540.887	148.22	
08:00:00	12:17:28:00	25555.293	25544.754	25546.617	148.21	
09:00:00	12:18:28:00	25561.061	25550.375	25552.261	148.21	
10:00:00	12:19:28:00	25566.606	25555.984	25557.826	148.20	
11:00:00	12:20:28:00	25572.034	25561.303	25563.210	148.19	
12:00:00	12:21:28:00	25577.314	25566.574	25568.503	148.18	
13:00:00	12:22:28:00	25582.435	25571.776	25573.627	148.18	
14:00:00	12:23:28:00	25587.450	25576.765	25578.727	148.17	
15:00:00	13:00:28:00	25592.358	25581.642	25583.554	148.16	
16:00:00	13:01:28:00	25597.067	25586.514	25588.447	148.16	
17:00:00	13:02:28:00	25601.934	25591.277	25593.133	148.15	
18:00:00	13:03:28:00	25606.607	25595.847		148.14	Interval Change
19:00:00	13:04:28:00	25611.168	25600.241		148.14	
20:00:00	13:05:28:00	25615.558	25604.775		148.13	
21:00:00	13:06:28:00	25619.959	25609.036		148.13	
22:00:00	13:07:28:00	25624.155	25613.431		148.12	
23:00:00	13:08:28:00	25628.315	25617.604		148.12	
Aug 12, 99 00:00:00	13:09:28:00	25632.440	25621.527		148.11	
01:00:00	13:10:28:00	25636.511	25625.614		148.10	
02:00:00	13:11:28:00	25640.424	25629.472		148.10	
03:00:00	13:12:28:00	25644.201	25633.342		148.09	
04:00:00	13:13:28:00	25648.008	25637.200		148.09	
05:00:00	13:14:28:00	25651.709	25640.897		148.08	
06:00:00	13:15:28:00	25655.421	25644.386		148.08	
07:00:00	13:16:28:00	25659.004	25648.022		148.07	
08:00:00	13:17:28:00	25662.504	25651.485		148.07	
09:00:00	13:18:28:00	25665.899	25654.957		148.06	
09:16:00	13:18:44:00	25666.787			148.06	LMR49902 Electronics Failure
10:16:00	13:19:44:00	25670.234			148.06	
11:16:00	13:20:44:00	25673.564			148.05	
12:16:00	13:21:44:00	25676.746			148.05	

Data

LMR49901		LMR49901	Imr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
13:16:00	13:22:44:00	25679.952			148.04	
14:16:00	13:23:44:00	25683.081			148.04	
15:16:00	14:00:44:00	25686.222			148.04	
16:16:00	14:01:44:00	25689.163			148.03	
17:16:00	14:02:44:00	25692.239			148.03	
18:16:00	14:03:44:00	25695.168			148.02	
19:16:00	14:04:44:00	25698.044			148.02	
20:16:00	14:05:44:00	25700.961			148.02	
21:16:00	14:06:44:00	25703.784			148.01	
22:16:00	14:07:44:00	25706.554			148.01	
23:16:00	14:08:44:00	25709.312			148.00	
Aug 13, 99 00:16:00	14:09:44:00	25711.935			148.00	
01:16:00	14:10:44:00	25714.546			148.00	
02:16:00	14:11:44:00	25717.104			148.00	
03:16:00	14:12:44:00	25719.768			147.99	
04:16:00	14:13:44:00	25722.285			147.99	
05:16:00	14:14:44:00	25724.684			147.99	
06:16:00	14:15:44:00	25727.219			147.98	
07:16:00	14:16:44:00	25729.577			147.98	
08:16:00	14:17:44:00	25731.882			147.98	
09:16:00	14:18:44:00	25734.322			147.97	
10:16:00	14:19:44:00	25736.615			147.97	
11:16:00	14:20:44:00	25739.014			147.96	
12:16:00	14:21:44:00	25741.254			147.96	
13:16:00	14:22:44:00	25743.400			147.96	
14:16:00	14:23:44:00	25745.699			147.95	
15:16:00	15:00:44:00	25747.921			147.95	
16:16:00	15:01:44:00	25750.079			147.95	
17:16:00	15:02:44:00	25752.255			147.94	
18:16:00	15:03:44:00	25754.430			147.94	
19:16:00	15:04:44:00	25756.576			147.94	
20:16:00	15:05:44:00	25758.604			147.93	
21:16:00	15:06:44:00	25760.644			147.93	
22:16:00	15:07:44:00	25762.660			147.93	
23:16:00	15:08:44:00	25764.635			147.92	
Aug 14, 99 00:16:00	15:09:44:00	25766.504			147.92	
01:16:00	15:10:44:00	25768.491			147.92	
02:16:00	15:11:44:00	25770.319			147.92	
03:16:00	15:12:44:00	25772.201			147.91	
04:16:00	15:13:44:00	25774.135			147.91	
05:16:00	15:14:44:00	25776.016			147.91	
06:16:00	15:15:44:00	25777.779			147.91	
07:16:00	15:16:44:00	25779.648			147.90	
08:16:00	15:17:44:00	25781.447			147.90	
09:16:00	15:18:44:00	25783.210			147.90	
10:16:00	15:19:44:00	25785.038			147.90	
11:16:00	15:20:44:00	25786.761			147.89	
12:16:00	15:21:44:00	25788.471			147.89	
13:16:00	15:22:44:00	25790.164			147.89	
14:16:00	15:23:44:00	25791.980			147.89	
15:16:00	16:00:44:00	25793.661			147.89	
16:16:00	16:01:44:00	25795.330			147.88	
17:16:00	16:02:44:00	25796.959			147.88	
18:16:00	16:03:44:00	25798.445			147.88	
19:16:00	16:04:44:00	25800.155			147.87	
20:16:00	16:05:44:00	25801.637			147.87	
21:16:00	16:06:44:00	25803.269			147.87	
22:16:00	16:07:44:00	25804.869			147.87	

Data						
LMR49901		LMR49901	lmr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
	23:16:00	16:08:44:00	25806.339		147.87	
Aug 15, 99	00:16:00	16:09:44:00	25807.890		147.86	
	01:16:00	16:10:44:00	25809.412		147.86	
	02:16:00	16:11:44:00	25810.975		147.86	
	03:16:00	16:12:44:00	25812.486		147.86	
	04:16:00	16:13:44:00	25813.955		147.86	
	05:16:00	16:14:44:00	25815.359		147.86	
	06:16:00	16:15:44:00	25816.829		147.85	
	07:16:00	16:16:44:00	25818.180		147.85	
	08:16:00	16:17:44:00	25819.703		147.85	
	09:16:00	16:18:44:00	25821.201		147.85	
	10:16:00	16:19:44:00	25822.564		147.85	
	11:16:00	16:20:44:00	25823.968		147.84	
	12:16:00	16:21:44:00	25825.373		147.84	
	13:16:00	16:22:44:00	25826.883		147.84	
	14:16:00	16:23:44:00	25828.246		147.84	
	15:16:00	17:00:44:00	25829.610		147.84	
	16:16:00	17:01:44:00	25830.908		147.83	
	17:16:00	17:02:44:00	25832.272		147.83	
	18:16:00	17:03:44:00	25833.570		147.83	
	19:16:00	17:04:44:00	25834.934		147.83	
	20:16:00	17:05:44:00	25836.232		147.83	
	21:16:00	17:06:44:00	25837.555		147.83	
	22:16:00	17:07:44:00	25838.829		147.82	
	23:16:00	17:08:44:00	25840.099		147.82	
Aug 16, 99	00:16:00	17:09:44:00	25841.397		147.82	
	01:16:00	17:10:44:00	25842.561		147.82	
	02:16:00	17:11:44:00	25843.766		147.82	
	03:16:00	17:12:44:00	25845.105		147.82	
	04:16:00	17:13:44:00	25846.216		147.82	
	05:16:00	17:14:44:00	25847.461		147.81	
	06:16:00	17:15:44:00	25848.759		147.81	
	07:16:00	17:16:44:00	25849.911		147.81	
	08:16:00	17:17:44:00	25851.103		147.81	
	09:16:00	17:18:44:00	25852.308		147.81	
	10:16:00	17:19:44:00	25853.500		147.80	
	11:16:00	17:20:44:00	25854.693		147.80	
	12:16:00	17:21:44:00	25855.739		147.80	
	13:16:00	17:22:44:00	25856.931		147.80	
	14:16:00	17:23:44:00	25858.176		147.80	
	15:16:00	18:00:44:00	25859.234		147.80	
	16:16:00	18:01:44:00	25860.333		147.79	
	17:16:00	18:02:44:00	25861.432		147.79	
	18:16:00	18:03:44:00	25862.571		147.79	
	19:16:00	18:04:44:00	25863.723		147.79	
	20:16:00	18:05:44:00	25864.716		147.79	
	21:16:00	18:06:44:00	25865.855		147.79	
	22:16:00	18:07:44:00	25866.901		147.79	
	23:16:00	18:08:44:00	25868.052		147.78	
Aug 17, 99	00:16:00	18:09:44:00	25869.086		147.78	
	01:16:00	18:10:44:00	25870.132		147.78	
	02:16:00	18:11:44:00	25871.177		147.78	
	03:16:00	18:12:44:00	25872.223		147.78	
	04:16:00	18:13:44:00	25873.310		147.78	
	05:16:00	18:14:44:00	25874.262		147.78	
	06:16:00	18:15:44:00	25875.442		147.77	
	07:16:00	18:16:44:00	25876.341		147.77	
	08:16:00	18:17:44:00	25877.427		147.77	

Data

LMR49901		LMR49901	Imr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
09:16:00	18:18:44:00	25878.420			147.77	
10:16:00	18:19:44:00	25879.413			147.77	
11:16:00	18:20:44:00	25880.406			147.77	
12:16:00	18:21:44:00	25881.439			147.76	
13:16:00	18:22:44:00	25882.379			147.76	
14:16:00	18:23:44:00	25883.360			147.76	
15:16:00	19:00:44:00	25884.352			147.76	
16:16:00	19:01:44:00	25885.292			147.76	
17:16:00	19:02:44:00	25886.232			147.76	
18:16:00	19:03:44:00	25887.318			147.76	
19:16:00	19:04:44:00	25888.205			147.75	
20:16:00	19:05:44:00	25889.145			147.75	
21:16:00	19:06:44:00	25890.191			147.75	
22:16:00	19:07:44:00	25891.025			147.75	
23:16:00	19:08:44:00	25892.058			147.75	
Aug 18, 99 00:16:00	19:09:44:00	25892.945			147.75	
01:16:00	19:10:44:00	25893.844			147.75	
02:16:00	19:11:44:00	25894.825			147.74	
03:16:00	19:12:44:00	25895.712			147.74	
04:16:00	19:13:44:00	25896.692			147.74	
05:16:00	19:14:44:00	25897.526			147.74	
06:16:00	19:15:44:00	25898.466			147.74	
07:16:00	19:16:44:00	25899.353			147.74	
08:16:00	19:17:44:00	25900.333			147.74	
09:16:00	19:18:44:00	25901.073			147.74	
10:16:00	19:19:44:00	25901.960			147.73	
10:56:00	19:20:24:00	25902.583			147.73	9502Q-16E Battery Failure
11:56:00	19:21:24:00	25903.510			147.73	
12:56:00	19:22:24:00	25904.344			147.73	
13:56:00	19:23:24:00	25905.231			147.73	
14:56:00	20:00:24:00	25906.171			147.73	
15:56:00	20:01:24:00	25906.952			147.73	
16:56:00	20:02:24:00	25907.838			147.73	
17:56:00	20:03:24:00	25908.672			147.72	
18:56:00	20:04:24:00	25909.506			147.72	
19:56:00	20:05:24:00	25910.393			147.72	
20:56:00	20:06:24:00	25911.174			147.72	
21:56:00	20:07:24:00	25912.008			147.72	
22:56:00	20:08:24:00	25912.935			147.72	
23:56:00	20:09:24:00	25913.676			147.72	
Aug 19, 99 00:56:00	20:10:24:00	25914.457			147.72	
01:56:00	20:11:24:00	25915.331			147.71	
02:56:00	20:12:24:00	25916.218			147.71	
03:56:00	20:13:24:00	25917.052			147.71	
04:56:00	20:14:24:00	25917.833			147.71	
05:56:00	20:15:24:00	25918.667			147.71	
06:56:00	20:16:24:00	25919.448			147.71	
07:56:00	20:17:24:00	25920.229			147.71	
08:56:00	20:18:24:00	25921.010			147.71	
09:56:00	20:19:24:00	25921.791			147.70	
10:56:00	20:20:24:00	25922.624			147.70	
11:56:00	20:21:24:00	25923.365			147.70	
12:56:00	20:22:24:00	25924.186			147.70	
13:56:00	20:23:24:00	25925.020			147.70	
14:56:00	21:00:24:00	25925.748			147.70	
15:56:00	21:01:24:00	25926.476			147.70	
16:56:00	21:02:24:00	25927.310			147.70	
17:56:00	21:03:24:00	25927.998			147.70	

Data						
LMR49901	LMR49901	lmr49902	9502Q-16E	LMR49901		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
	18:56:00	21:04:24:00	25928.819		147.69	
	19:56:00	21:05:24:00	25929.547		147.69	
	20:56:00	21:06:24:00	25930.288		147.69	
	21:56:00	21:07:24:00	25931.109		147.69	
	22:56:00	21:08:24:00	25931.797		147.69	
	23:56:00	21:09:24:00	25932.577		147.69	
Aug 20, 99	00:56:00	21:10:24:00	25933.358		147.69	
	01:56:00	21:11:24:00	25934.086		147.69	
	02:56:00	21:12:24:00	25934.721		147.69	
	03:56:00	21:13:24:00	25935.542		147.68	
	04:56:00	21:14:24:00	25936.230		147.68	
	05:56:00	21:15:24:00	25937.011		147.68	
	06:56:00	21:16:24:00	25937.686		147.68	
	07:56:00	21:17:24:00	25938.414		147.68	
	08:56:00	21:18:24:00	25939.142		147.68	
	09:56:00	21:19:24:00	25939.870		147.68	
	10:56:00	21:20:24:00	25940.505		147.68	
	11:56:00	21:21:24:00	25941.180		147.68	
	12:56:00	21:22:24:00	25941.960		147.68	
	13:56:00	21:23:24:00	25942.636		147.68	
	14:56:00	22:00:24:00	25943.376		147.68	
	15:56:00	22:01:24:00	25944.051		147.67	
	16:56:00	22:02:24:00	25944.726		147.67	
	17:56:00	22:03:24:00	25945.454		147.67	
	18:56:00	22:04:24:00	25946.142		147.67	
	19:56:00	22:05:24:00	25946.829		147.67	
	20:56:00	22:06:24:00	25947.504		147.67	
	21:56:00	22:07:24:00	25948.179		147.67	
	22:56:00	22:08:24:00	25948.854		147.67	
	23:56:00	22:09:24:00	25949.449		147.67	
Aug 21, 99	00:56:00	22:10:24:00	25950.270		147.67	
	01:56:00	22:11:24:00	25950.905		147.67	
	02:56:00	22:12:24:00	25951.487		147.67	
	03:56:00	22:13:24:00	25952.121		147.67	
	04:56:00	22:14:24:00	25952.796		147.67	
	05:56:00	22:15:24:00	25953.484		147.67	
	06:56:00	22:16:24:00	25954.106		147.66	
	07:56:00	22:17:24:00	25954.728		147.66	
	08:56:00	22:18:24:00	25955.363		147.66	
	09:56:00	22:19:24:00	25955.998		147.66	
	10:56:00	22:20:24:00	25956.673		147.66	
	11:56:00	22:21:24:00	25957.307		147.66	
	12:56:00	22:22:24:00	25957.942		147.66	
	13:56:00	22:23:24:00	25958.577		147.66	
	14:56:00	23:00:24:00	25959.199		147.66	
	15:56:00	23:01:24:00	25959.781		147.66	
	16:56:00	23:02:24:00	25960.456		147.66	
	17:56:00	23:03:24:00	25961.090		147.66	
	18:56:00	23:04:24:00	25961.619		147.66	
	19:56:00	23:05:24:00	25962.294		147.66	
	20:56:00	23:06:24:00	25962.982		147.66	
	21:56:01	23:07:24:01	25963.524		147.66	
	22:56:02	23:08:24:02	25964.105		147.66	
	23:56:03	23:09:24:03	25964.780		147.66	
Aug 22, 99	00:56:04	23:10:24:04	25965.375		147.66	
	01:56:04	23:11:24:04	25965.997		147.66	
	02:56:04	23:12:24:04	25966.526		147.66	
	03:56:07	23:13:24:07	25967.239		147.66	

Data

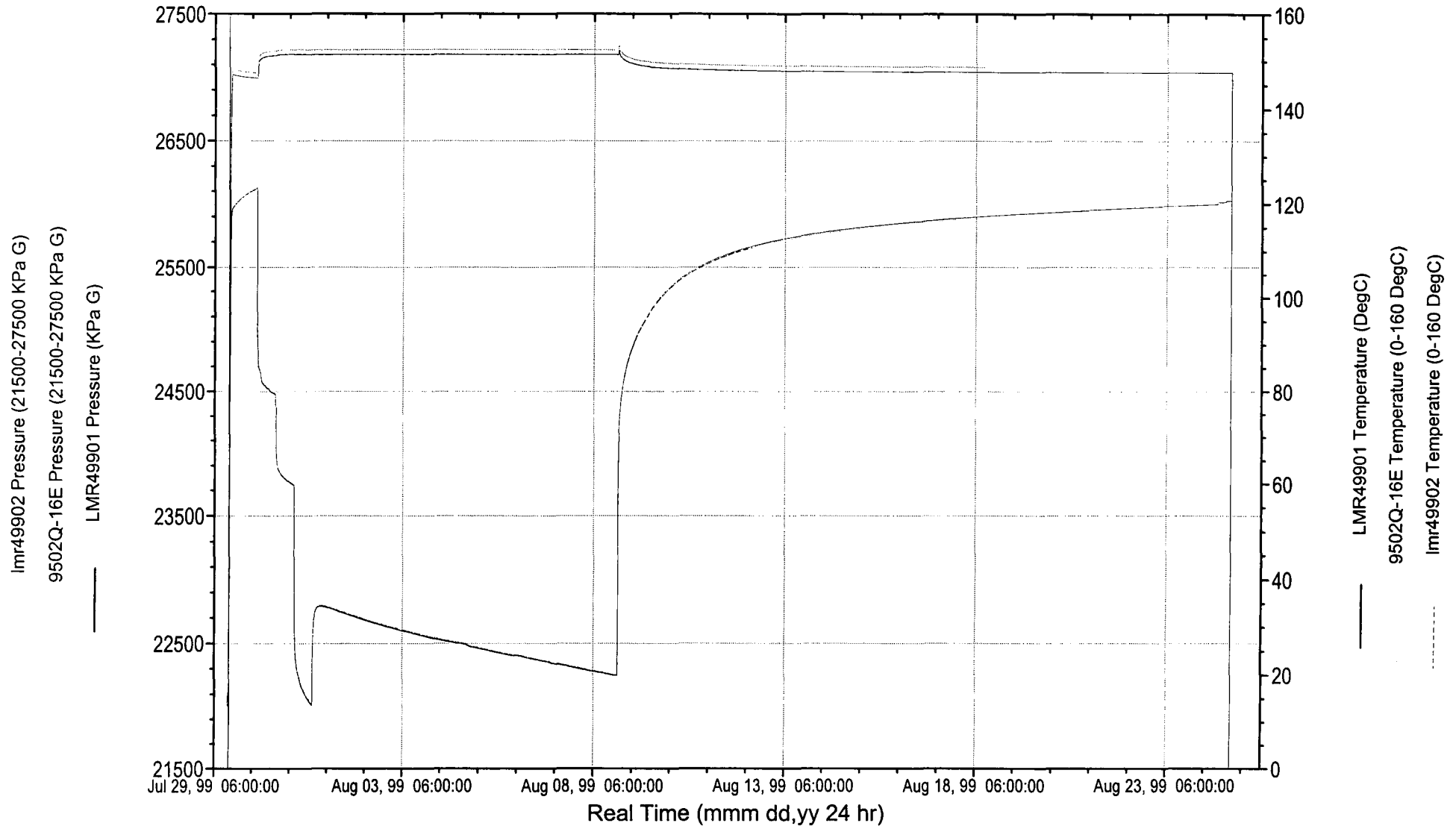
LMR49901		LMR49901	Imr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
04:56:09	23:14:24:09	25967.808			147.66	
05:56:12	23:15:24:12	25968.443			147.66	
06:56:13	23:16:24:13	25969.065			147.66	
07:56:17	23:17:24:17	25969.700			147.66	
08:56:17	23:18:24:17	25970.269			147.66	
09:56:25	23:19:24:25	25970.956			147.66	
10:56:28	23:20:24:28	25971.432			147.66	
11:56:29	23:21:24:29	25972.054			147.66	
12:56:31	23:22:24:31	25972.636			147.66	
13:56:35	23:23:24:35	25973.165			147.66	
14:56:38	24:00:24:38	25973.853			147.66	
15:56:41	24:01:24:41	25974.435			147.66	
16:56:48	24:02:24:48	25975.069			147.66	
17:56:55	24:03:24:55	25975.598			147.66	
18:57:00	24:04:25:00	25976.220			147.66	
19:57:00	24:05:25:00	25976.749			147.66	
20:57:00	24:06:25:00	25977.384			147.66	
21:57:05	24:07:25:05	25977.913			147.66	
22:57:10	24:08:25:10	25978.495			147.66	
23:57:15	24:09:25:15	25979.077			147.66	
Aug 23, 99 00:57:17	24:10:25:17	25979.553			147.66	
01:57:19	24:11:25:19	25980.215			147.65	
02:57:19	24:12:25:19	25980.744			147.65	
03:57:22	24:13:25:22	25981.273			147.65	
04:57:22	24:14:25:22	25981.789			147.65	
05:57:22	24:15:25:22	25982.265			147.65	
06:57:25	24:16:25:25	25982.847			147.65	
07:57:28	24:17:25:28	25983.481			147.65	
08:57:28	24:18:25:28	25983.905			147.65	
09:57:28	24:19:25:28	25984.527			147.65	
10:57:30	24:20:25:30	25985.056			147.65	
11:57:33	24:21:25:33	25985.532			147.65	
12:57:33	24:22:25:33	25986.061			147.65	
13:57:33	24:23:25:33	25986.683			147.65	
14:57:33	25:00:25:33	25987.159			147.65	
15:57:33	25:01:25:33	25987.688			147.65	
16:57:33	25:02:25:33	25988.216			147.65	
17:57:33	25:03:25:33	25988.692			147.65	
18:57:34	25:04:25:34	25989.221			147.65	
19:57:36	25:05:25:36	25989.750			147.65	
20:57:36	25:06:25:36	25990.267			147.65	
21:57:36	25:07:25:36	25990.795			147.65	
22:57:37	25:08:25:37	25991.231			147.65	
23:57:39	25:09:25:39	25991.773			147.65	
Aug 24, 99 00:57:39	25:10:25:39	25992.289			147.65	
01:57:39	25:11:25:39	25992.818			147.65	
02:57:39	25:12:25:39	25993.347			147.65	
03:57:39	25:13:25:39	25993.823			147.65	
04:57:39	25:14:25:39	25994.339			147.65	
05:57:39	25:15:25:39	25994.828			147.65	
06:57:39	25:16:25:39	25995.304			147.65	
07:57:39	25:17:25:39	25995.833			147.65	
08:57:39	25:18:25:39	25996.349			147.65	
09:57:39	25:19:25:39	25996.825			147.65	
10:57:39	25:20:25:39	25997.261			147.65	
11:57:39	25:21:25:39	25997.976			147.65	
12:57:39	25:22:25:39	25998.306			147.65	
13:57:39	25:23:25:39	26013.570			147.67	

Data						
LMR49901		LMR49901	lmr49902	9502Q-16E	LMR49901	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Pressure (KPa G)	Temperature (DegC)	Comments
14:57:39	26:00:25:39	26014.092			147.66	
15:57:39	26:01:25:39	26014.462			147.66	
16:57:39	26:02:25:39	26014.978			147.65	
17:57:39	26:03:25:39	26015.414			147.66	
18:57:39	26:04:25:39	26019.614			147.67	
19:57:39	26:05:25:39	26025.330			147.66	
20:57:39	26:06:25:39	26025.846			147.66	
21:57:39	26:07:25:39	26026.257			147.66	
22:34:00	26:08:02:00					LMR 49901 Quit

Pressure & Temperature vs. Real Time

Company: **Lee Tool, Div. of Schlumberger**
Client: **Ranger Oil Limited**
Remarks: **9502Q-16E Bot. & 49902 Mid. & 49901 Top**

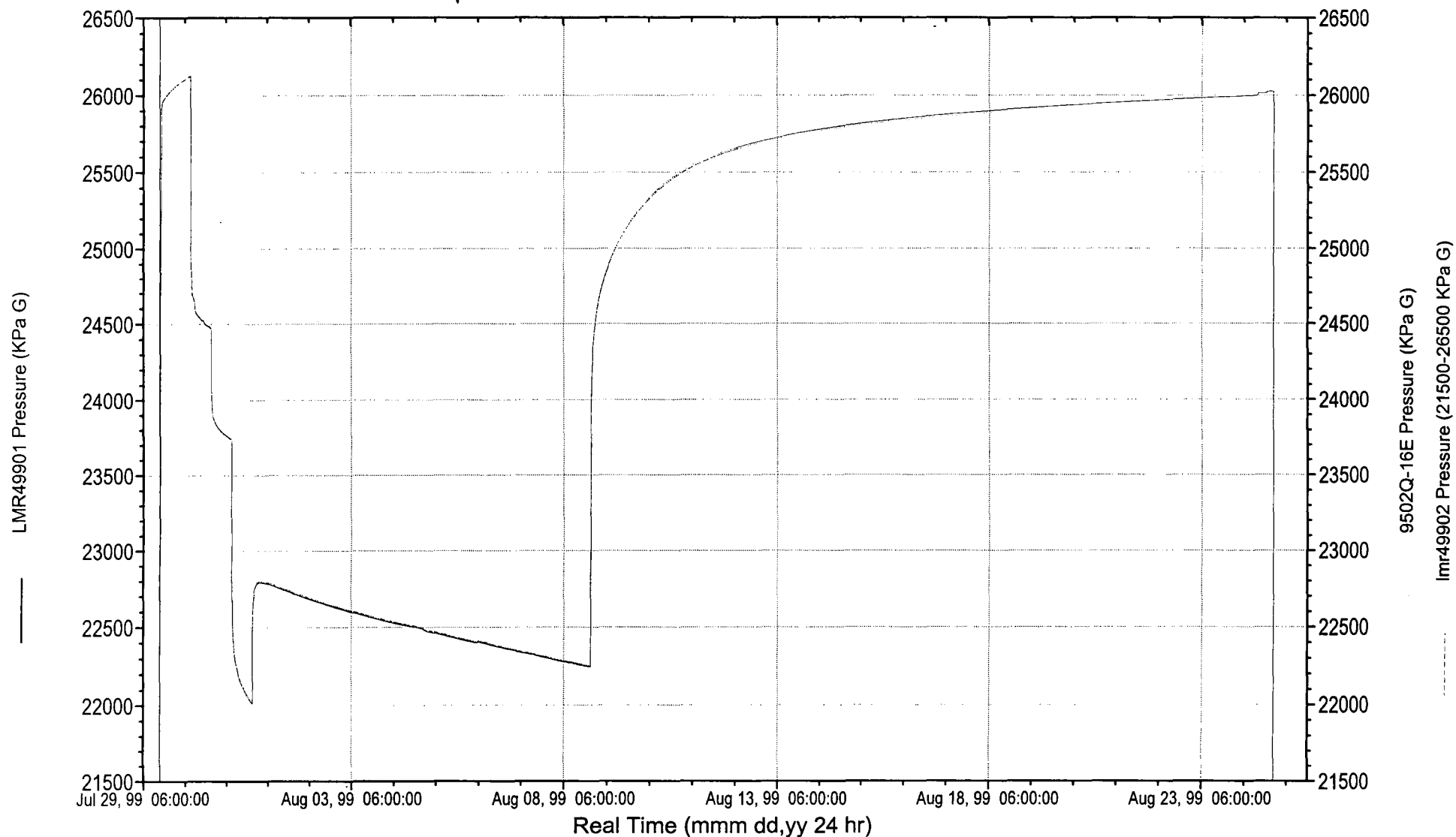
Field: **Liard**
Well Name: **Ranger Ft. Liard**
Well Number: **P-66-A**



Pressure vs. Real Time

Company: **Lee Tool, Div. of Schlumberger**
Client: **Ranger Oil Limited**
Remarks: **9502Q-16E Bot. & 49902 Mid. & 49901 Top**

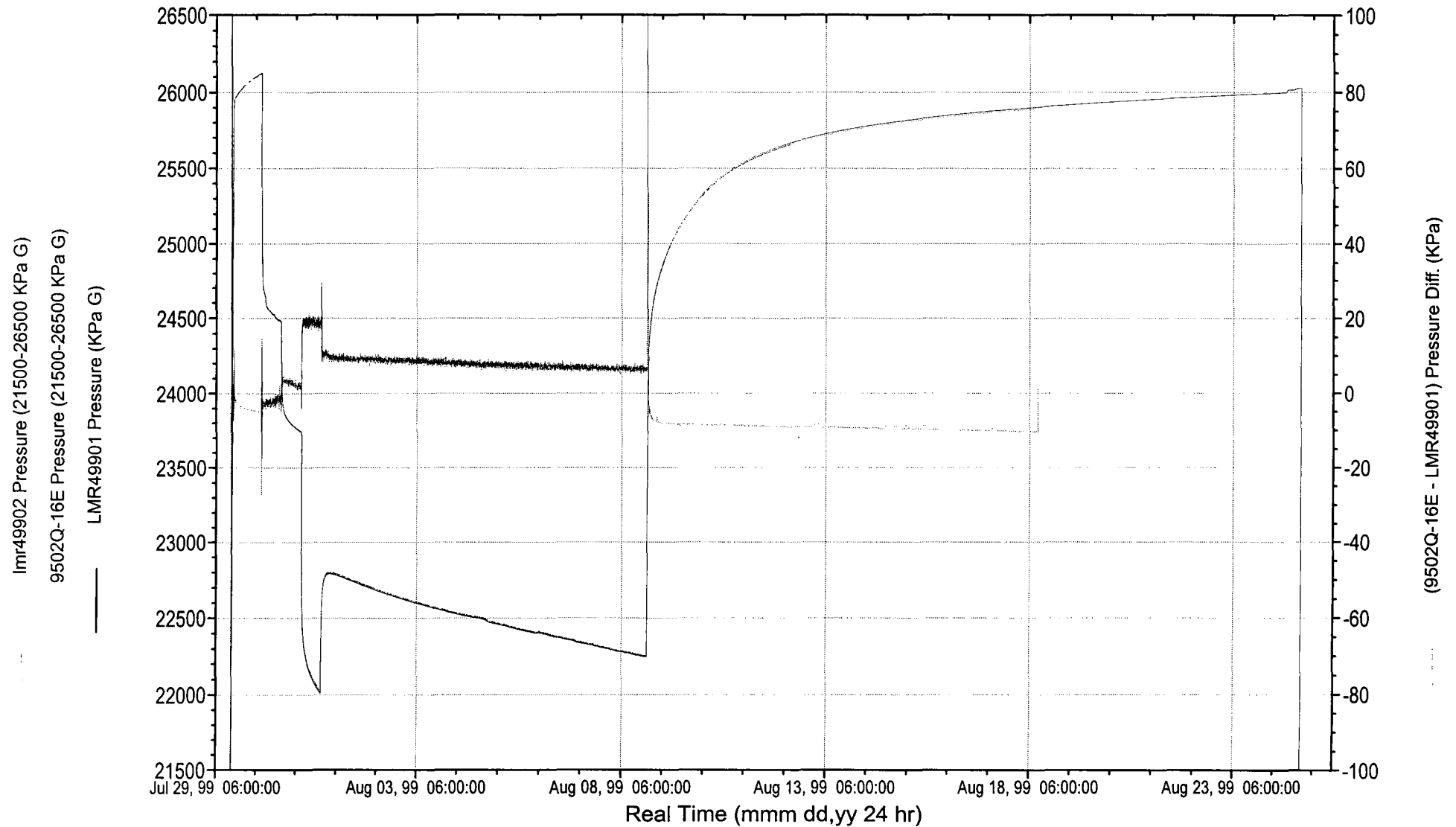
Field: **Liard**
Well Name: **Ranger Ft. Liard**
Well Number: **P-66-A**



Pressure & Pressure Diff. vs. Real Time

Company: Lee Tool, Div. of Schlumberger
Client: Ranger Oil Limited
Remarks: 9502Q-16E Bot. & 49902 Mid. & 49901 Top

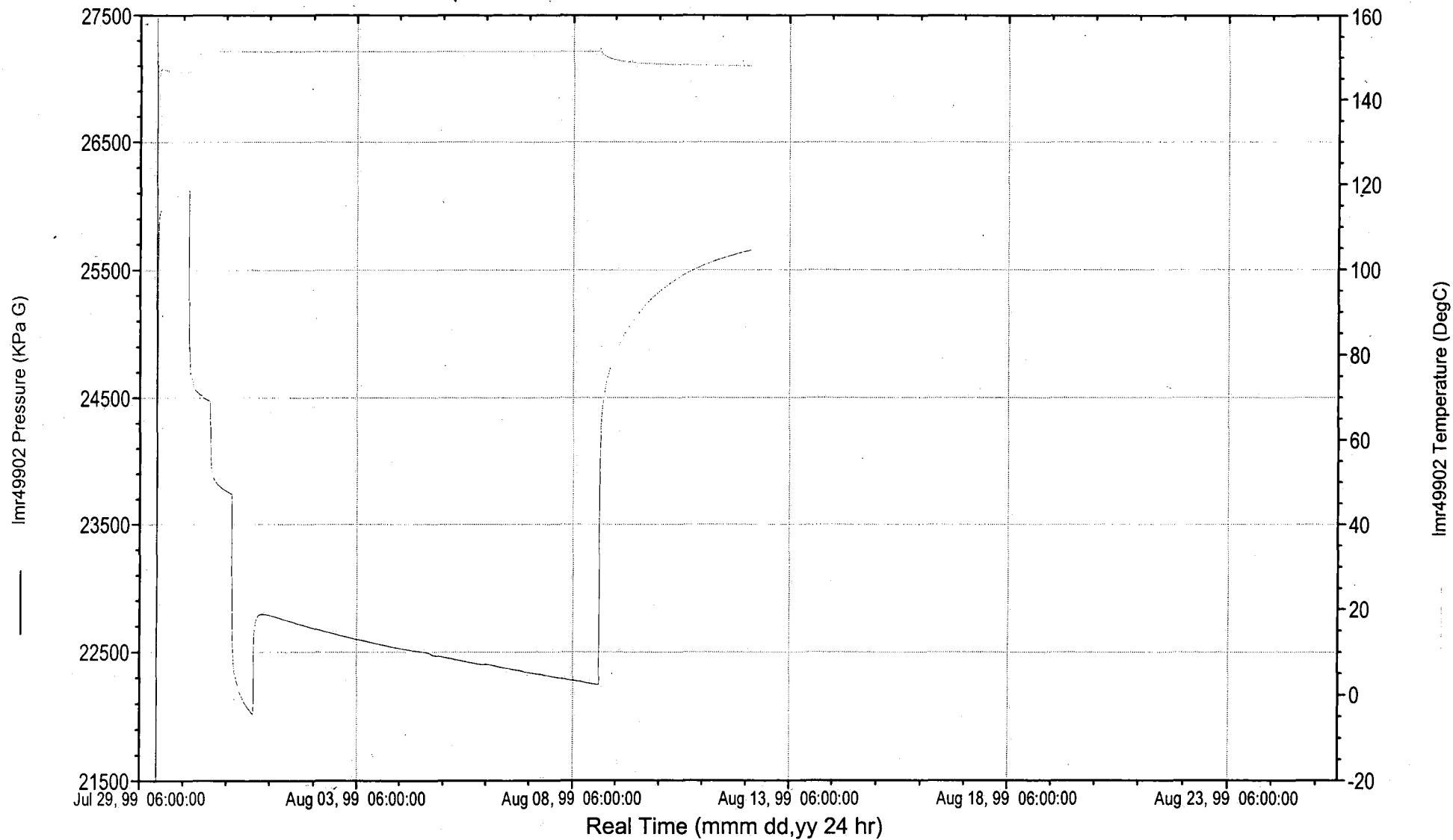
Field: Liard
Well Name: Ranger Ft. Liard
Well Number: P-66-A



Pressure & Temperature vs. Real Time

Company: **Lee Tool, Div. of Schlumberger**
Client: **Ranger Oil Limited**
Remarks: **Electronics Failure on August 12/99 @ 09:16 a.m.**

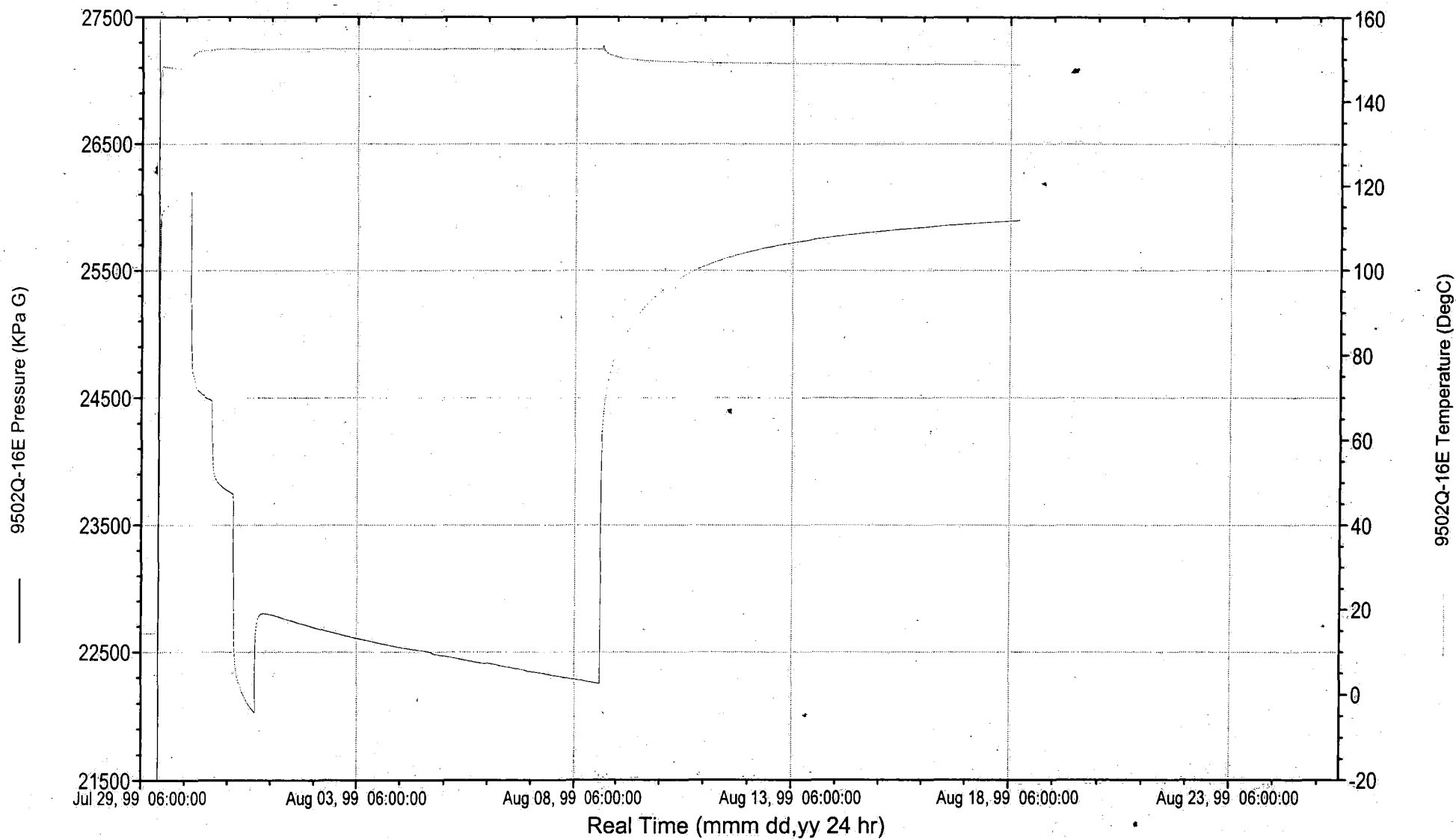
Field: **Liard**
Well Name: **Ranger Ft. Liard**
Well Number: **P-66-A**



Pressure & Temperature vs. Real Time

Company: **Lee Tool, Div. of Schlumberger**
Client: **Ranger Oil Limited**
Remarks: **Battery Failure on August 18/99 @ 10:56 a.m.**

Field: **Liard**
Well Name: **Ranger Ft. Liard**
Well Number: **P-66-A**



Pressure & Temperature vs. Real Time

Company: Lee Tool, Div. of Schlumberger
Client: Ranger Oil Limited
Remarks: Tool Quit on August 24/99 @ 22:34 p.m.

Field: Liard
Well Name: Ranger Ft. Liard
Well Number: P-66-A

