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Chevron Canada Resources

Flow /Build-Up/Gradient Out
Chevron et al Ft. Liard k-29
k-29

Apr 12, 99 to Apr 26, 99

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Service Company Contact Info

Report Writer	Vio Tandara, 1-403-309-7913(347-2524)	Service Company	Lee Tool, Div. of Schlumberger
Operator	Dale Sallstrom, 1-780-778-2361	Job ID	k-29ext
		Test Date	Apr 12, 99 to Apr 26, 99

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

Tool Summary

Chevron Canada Resources
Alberta, Canada

Apr 12, 99 to Apr 26, 99

Chevron et al Ft. Liard k-29

k-29

Liard, Nahanni

Top Recorder

Tool	LMR-3000S	Serial	9431Q-16E	Latest Calibration	03/10/99	Battery Serial	165
Landed Depth	2643.50 mCF	Depth Offset	-1.50 m	Min. Battery	11.94 V		

Program: 30 day test fort-nelson

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	6	10			51840	14.8%	1.0949	51840		14.8%	1.0949	6
HB	10	5			172800	49.4%	1.9698	148311		42.4%	1.6907	8 13:59:15
HB	14	10			120960	34.6%	2.5549					
HB	30	15:00			2880	0.8%	5.0448					
Totals:	60				348480	99.7%	10.6645	200151		57.3%	2.7856	14 13:59:15

Bottom Recorder

Tool	LMR-3000S	Serial	9427Q-16E	Latest Calibration	03/10/99	Battery Serial	165 c
Landed Depth	2645.00 mCF	Depth Offset	0.00 m	Min. Battery	12.42 V		

Program: 30 day test fort-nelson

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	6	10			51840	14.8%	1.0949	51840		14.8%	1.0949	6
HB	10	5			172800	49.4%	1.9698	121030		34.6%	1.3797	7 5:50
HB	14	10			120960	34.6%	2.5549					
HB	30	15:00			2880	0.8%	5.0448					
Totals:	60				348480	99.7%	10.6645	172870		49.5%	2.4746	13 5:50

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Well			
Client	Chevron Canada Resources		Province Alberta
Well Name	Chevron et al Ft. Liard k-29		Country Canada
Well No.	k-29		Deviated Well Yes
Field	Liard	Pool Nahanni	Well Status Gas
			KB Elevation 418.80 m
			CF Elevation 409.60 m
			Pool Datum 2500.00 mSS

Test						
Test Type Flow /Build-Up/Gradient Out				Atmospheric 101.30 KPa A		
Test Start (mm/dd/yy) 04/12/99		04:15 AM	Test Finish 04/26/99		06:43 PM	Casing ID 88.90 mm
On Bottom 04/12/99		05:07 AM	Off Bottom 04/26/99		04:12 PM	C. Pres. Before 0.00 KPa G
Shut In 04/19/99		05:00 AM	ETO 04/12/99		04:15 AM	T. Pres. Before 22200.00 KPa G
		Meas. Depth [mCF]	TVD [mCF]	Est. Pressure [KPa G]	Est. Gradient [KPa/m]	Est. Temperature [DegC]
			2909.60			Grad. Threshold
Well Datum						Grad. Recorder
Landed Depth		2645.00	2627.80			
Avg. MPP Depth		2840.80	2785.74			
Operator Dale Sallstrom, 1-780-778-2361				Service Company Lee Tool, Div. of Schlumberger		
Remarks 9427q-16e bot. rec. & 9431q-16e top rec.						

Depth References		
Depth Reference	Offset [m]	Elevation [mMSL]
Casing Flange (CF)		409.60
Kelly Bushing (KB)	CF + 9.20	418.80

Perforations						
Perf Top MD, [mKB]	Perf Bottom MD, [mKB]	Perf Top MD, [mCF]	Perf Bottom MD, [mCF]	MPP TVD, [mCF]	Pressure	Gradient
2700.00	3000.00	2690.80	2990.80	2785.74		

Top Recorder			
Model	LMR-3000S	Serial	9431Q-16E
Max. Rated Press.	110213.27 KPa G	Latest Calibration	03/10/99
		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		Apr 26, 99 09:00:00	27841.39	
Sample 2		15:00:00	27842.19	
Difference:		06:00:00	0.81	Build Up Rate 0.13 KPa/Hr.

Calibration Summary

Chevron Canada Resources
Alberta, Canada

Apr 12, 99 to Apr 26, 99

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Top Recorder

Tool	LMR-3000S	Serial	9431Q-16E	Latest Calibration	03/10/99	Battery Serial	165
Landed Depth	2043.50 mCF	Depth Offset	-1.50 m	Min. Battery	11.94 V		

Equations

FP = Pres Freq (Hz)

FT = Temp Freq (Hz)

$XP = 2.747100e+004 + (1.000000e-002) FP$

$XT = 4.165900e+004 + (1.000000e-002) FT$

$P_0 = 1.969811e+001 + (-1.905926e+000) XT + (-2.204650e-002) XT^2 + (5.969970e-007) XT^3 + (-1.199156e-008) XT^4$

$P_1 = 4.175652e+001 + (-2.090861e-002) XT + (3.950641e-005) XT^2 + (3.892917e-008) XT^3 + (1.680186e-010) XT^4$

$P_2 = -1.753347e-003 + (6.452854e-006) XT + (-1.495265e-007) XT^2 + (-6.967713e-010) XT^3 + (-1.314358e-012) XT^4$

$P_3 = 2.401419e-007 + (1.776446e-008) XT + (5.031246e-010) XT^2 + (2.763359e-012) XT^3 + (4.645005e-015) XT^4$

$P_4 = 6.002160e-010 + (-2.415368e-011) XT + (-5.531387e-013) XT^2 + (-3.138960e-015) XT^3 + (-5.151525e-018) XT^4$

Pressure (psiA) = $P_0 + P_1 XP + P_2 XP^2 + P_3 XP^3 + P_4 XP^4$

$T_0 = 2.574944e+001$

$T_1 = -7.444312e-001$

$T_2 = -8.630388e-004$

$T_3 = -6.347411e-007$

Temperature (degC) = $T_0 + T_1 XT + T_2 XT^2 + T_3 XT^3$

Bottom Recorder

Tool	LMR-3000S	Serial	9427Q-16E	Latest Calibration	03/10/99	Battery Serial	165 c
Landed Depth		Depth Offset		Min. Battery	12.42 V		

Equations

FP = Pres Freq (Hz)

FT = Temp Freq (Hz)

$XP = 2.300600e+004 + (1.000000e-002) FP$

$XT = 5.085900e+004 + (1.000000e-002) FT$

$P_0 = 1.963511e+001 + (-1.752376e+000) XT + (-1.932087e-002) XT^2 + (2.291743e-007) XT^3 + (-1.290329e-008) XT^4$

$P_1 = 3.775857e+001 + (-1.869573e-002) XT + (3.497554e-005) XT^2 + (3.605610e-008) XT^3 + (1.716453e-010) XT^4$

$P_2 = -1.608866e-003 + (5.364127e-006) XT + (-1.309903e-007) XT^2 + (-6.368218e-010) XT^3 + (-1.352842e-012) XT^4$

$P_3 = 2.013672e-007 + (1.600257e-008) XT + (4.470356e-010) XT^2 + (2.602563e-012) XT^3 + (4.916752e-015) XT^4$

$P_4 = 5.699558e-010 + (-2.065591e-011) XT + (-5.045669e-013) XT^2 + (-3.110876e-015) XT^3 + (-5.830296e-018) XT^4$

Pressure (psiA) = $P_0 + P_1 XP + P_2 XP^2 + P_3 XP^3 + P_4 XP^4$

$T_0 = 2.575128e+001$

$T_1 = -7.329239e-001$

$T_2 = -8.313673e-004$

$T_3 = -5.983105e-007$

Temperature (degC) = $T_0 + T_1 XT + T_2 XT^2 + T_3 XT^3$

Recorded Data

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Alberta, Canada

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Data							
9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
Apr 12, 99 04:15:00	0:00:00:00	-25.0850			4.7386		
04:20:00	0:00:05:00	-23.9691			4.8219		9427q-16e bot. rec.
04:21:00	0:00:06:00	-23.6369			4.7624		9431q-16e top rec.
04:51:00	0:00:36:00	23287.7137	23344.3000	56.5863	15.2795	15.3314	
05:07:00	0:00:52:00	27683.3504	27751.3500	67.9996	109.1468	108.0494	on bottom
05:37:00	0:01:22:00	27884.1596	27892.5300	8.3704	145.0363	145.2508	
06:07:00	0:01:52:00	27894.9870	27900.4100	5.4230	145.6919	145.9527	
06:37:00	0:02:22:00	27895.8353	27900.8200	4.9847	145.7642	146.0170	
07:07:00	0:02:52:00	27896.1978	27900.9200	4.7222	145.8010	146.0545	
07:37:00	0:03:22:00	27896.3227	27901.0200	4.6973	145.8306	146.0931	
08:07:00	0:03:52:00	27896.3966	27901.1600	4.7634	145.8602	146.1270	
08:37:00	0:04:22:00	27897.3370	27901.2900	3.9530	146.2592	146.4530	
09:07:00	0:04:52:00	27605.5539	27608.3600	2.8061	146.6848	146.7645	
09:37:00	0:05:22:00	27569.2407	27575.9300	6.6893	148.6322	148.6540	
10:07:00	0:05:52:00	27561.5768	27567.8600	6.2832	149.1411	149.1624	
10:37:00	0:06:22:00	27565.9766	27572.0200	6.0434	149.4203	149.4427	
11:07:00	0:06:52:00	27560.7050	27567.0600	6.3550	149.6116	149.6340	
11:37:00	0:07:22:00	27532.3254	27539.7400	7.4146	149.7783	149.7987	
12:07:00	0:07:52:00	27497.2973	27504.1700	6.8727	149.9612	149.9805	
12:37:00	0:08:22:00	27498.6032	27504.9800	6.3768	150.0939	150.1151	
13:07:00	0:08:52:00	27503.7038	27510.3100	6.6062	150.2022	150.2219	
13:37:00	0:09:22:00	27511.7515	27518.3300	6.5785	150.2859	150.3058	
14:07:00	0:09:52:00	27516.4660	27522.7600	6.2940	150.3650	150.3850	
14:37:00	0:10:22:00	27518.7574	27525.1900	6.4326	150.4347	150.4539	
15:07:00	0:10:52:00	27521.2741	27527.8200	6.5459	150.4986	150.5182	
15:37:00	0:11:22:00	27526.9396	27532.3600	5.4204	150.5637	150.5825	
16:07:00	0:11:52:00	27517.4443	27523.9600	6.5157	150.6182	150.6364	
16:37:00	0:12:22:00	27518.9460	27525.2800	6.3340	150.6728	150.6926	
17:07:00	0:12:52:00	27519.4910	27526.1900	6.6990	150.7204	150.7396	
17:37:00	0:13:22:00	27524.4491	27530.6800	6.2309	150.7692	150.7877	
18:07:00	0:13:52:00	27518.4053	27524.9600	6.5547	150.8133	150.8324	
18:37:00	0:14:22:00	27524.3971	27530.8200	6.4229	150.8585	150.8771	
19:07:00	0:14:52:00	27164.3319	27172.6400	8.3081	150.7425	150.7637	
19:37:00	0:15:22:00	27122.3207	27131.2000	8.8793	150.9942	151.0077	
20:07:00	0:15:52:00	27108.3111	27117.9500	9.6389	151.0637	151.0787	
20:37:00	0:16:22:00	27106.5745	27116.1000	9.5255	151.1437	151.1588	
21:07:00	0:16:52:00	27101.3939	27111.1000	9.7061	151.1982	151.2126	
21:37:00	0:17:22:00	27103.6916	27113.1400	9.4484	151.2503	151.2653	
22:07:00	0:17:52:00	27102.4866	27111.9100	9.4234	151.2966	151.3110	
22:37:00	0:18:22:00	27105.1979	27114.8300	9.6321	151.3418	151.3568	
23:07:00	0:18:52:00	27115.8006	27125.1000	9.2994	151.3823	151.3968	
23:37:00	0:19:22:00	27122.4658	27131.8300	9.3642	151.4205	151.4357	
Apr 13, 99 00:07:00	0:19:52:00	27129.5672	27138.9100	9.3428	151.4552	151.4699	
00:37:00	0:20:22:00	27133.2084	27142.3900	9.1816	151.4887	151.5031	
01:07:00	0:20:52:00	27135.1859	27144.2500	9.0641	151.5200	151.5351	
01:37:00	0:21:22:00	27139.3866	27148.4100	9.0234	151.5512	151.5659	
02:07:00	0:21:52:00	27142.3787	27151.7900	9.4113	151.5801	151.5945	
02:37:00	0:22:22:00	27145.4992	27154.7200	9.2208	151.6079	151.6219	
03:07:00	0:22:52:00	27144.1253	27153.1700	9.0447	151.6333	151.6470	

Data

9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)
03:37:00	0:23:22:00	27146.6884	27155.8600	9.1716	151.6611	151.6756
04:07:00	0:23:52:00	27147.4644	27156.6100	9.1456	151.6853	151.6996
04:37:00	1:00:22:00	27148.5151	27157.6400	9.1249	151.7108	151.7236
05:07:00	1:00:52:00	26802.0850	26812.8400	10.7550	151.5454	151.5625
05:37:00	1:01:22:00	26758.9820	26770.4700	11.4880	151.6587	151.6722
06:07:00	1:01:52:00	26736.5527	26748.6400	12.0873	151.6761	151.6904
06:37:00	1:02:22:00	26725.7397	26737.2900	11.5503	151.7061	151.7190
07:07:00	1:02:52:00	26719.6642	26731.7500	12.0858	151.7327	151.7464
07:37:00	1:03:22:00	26715.9357	26727.9000	11.9643	151.7605	151.7738
08:07:00	1:03:52:00	26713.2609	26725.1400	11.8791	151.7905	151.8046
08:37:00	1:04:22:00	26712.0086	26724.4100	12.4014	151.8182	151.8309
09:07:00	1:04:52:00	26711.4355	26723.5400	12.1045	151.8390	151.8525
09:37:00	1:05:22:00	26710.9781	26722.7200	11.7419	151.8552	151.8685
10:07:00	1:05:52:00	26711.2349	26723.3500	12.1151	151.8771	151.8902
10:37:00	1:06:22:00	26708.8100	26720.8800	12.0700	151.8991	151.9119
11:07:00	1:06:52:00	26707.4331	26718.9000	11.4669	151.9176	151.9313
11:37:00	1:07:22:00	26707.3342	26719.3500	12.0158	151.9395	151.9529
12:07:00	1:07:52:00	26707.5227	26719.4000	11.8773	151.9661	151.9792
12:37:00	1:08:22:00	26706.8019	26718.4200	11.6181	151.9845	151.9986
13:07:00	1:08:52:00	26706.4216	26718.3700	11.9484	151.9996	152.0122
13:37:00	1:09:22:00	26705.3832	26717.7000	12.3168	152.0146	152.0271
14:07:00	1:09:52:00	26704.3233	26716.5000	12.1767	152.0284	152.0408
14:37:00	1:10:22:00	26703.1244	26715.1300	12.0056	152.0457	152.0590
15:07:00	1:10:52:00	25953.8314	25974.2400	20.4086	151.8275	151.8731
15:37:00	1:11:22:00	25990.0414	25981.1400	-8.9014	152.2845	152.3051
16:07:00	1:11:52:00	26335.4064	26354.9300	19.5236	152.6451	152.6807
16:37:00	1:12:22:00	26250.5364	26286.4200	35.8836	152.6682	152.6921
17:07:00	1:12:52:00	26203.8075	26229.9300	26.1225	152.6762	152.6989
17:37:00	1:13:22:00	26125.9011	26156.0500	30.1489	152.6118	152.6352
18:07:00	1:13:52:00	26144.5526	26171.8100	27.2574	152.6002	152.6250
18:37:00	1:14:22:00	26158.0063	26178.8900	20.8837	152.6555	152.6796
19:07:00	1:14:52:00	26198.2959	26225.8100	27.5141	152.7395	152.7648
19:37:00	1:15:22:00	26209.9511	26232.8900	22.9389	152.7844	152.8092
20:07:00	1:15:52:00	26189.4610	26217.5100	28.0490	152.8074	152.8330
20:37:00	1:16:22:00	26172.3419	26203.1900	30.8481	152.8201	152.8444
21:07:00	1:16:52:00	26217.1243	26240.1000	22.9757	152.8580	152.8830
21:37:00	1:17:22:00	26115.5011	26147.9100	32.4089	152.8396	152.8614
22:07:00	1:17:52:00	26289.0158	26324.9600	35.9442	153.0006	153.0250
22:37:00	1:18:22:00	26251.5262	26264.9400	13.4138	153.0110	153.0307
23:07:00	1:18:52:00	26146.9663	26172.2300	25.2637	152.8845	152.9114
23:37:00	1:19:22:00	26307.4521	26349.6500	42.1979	152.9247	152.9693
Apr 14, 99 00:07:00	1:19:52:00	26442.4804	26480.4500	37.9696	153.1879	153.2236
00:37:00	1:20:22:00	26592.0246	26614.1400	22.1154	153.4714	153.5003
01:07:00	1:20:52:00	26581.7278	26605.2900	23.5622	153.4141	153.4357
01:37:00	1:21:22:00	26578.9491	26603.0300	24.0809	153.1994	153.2191
02:07:00	1:21:52:00	26570.4687	26593.5100	23.0413	153.0271	153.0477
02:37:00	1:22:22:00	26619.2098	26651.2400	32.0302	152.9328	152.9546
03:07:00	1:22:52:00	26668.5407	26696.1400	27.5993	152.8764	152.8978
03:37:00	1:23:22:00	26723.1279	26745.1800	22.0521	152.8661	152.8898
04:07:00	1:23:52:00	26783.2985	26802.8800	19.5815	152.9109	152.9341
04:37:00	2:00:22:00	26824.0584	26848.9700	24.9116	152.9868	153.0102
05:07:00	2:00:52:00	26846.4352	26867.7900	21.3548	153.0719	153.0954
05:37:00	2:01:22:00	26820.9294	26844.4200	23.4906	153.1259	153.1487
06:07:00	2:01:52:00	26770.7251	26792.8200	22.0949	153.1213	153.1431
06:37:00	2:02:22:00	26744.7142	26770.7800	26.0658	153.1236	153.1465
07:07:00	2:02:52:00	26716.5340	26739.3100	22.7760	153.1236	153.1442
07:37:00	2:03:22:00	26705.7165	26728.7900	23.0735	153.1282	153.1510
08:07:00	2:03:52:00	26715.5493	26736.9100	21.3607	153.1603	153.1850

Data							
9431Q-16E		9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
08:37:00	2:04:22:00	26731.3991	26755.9600	24.5609	153.2327	153.2565	
09:07:00	2:04:52:00	26707.9284	26732.9700	25.0416	153.2327	153.2588	
09:37:00	2:05:22:00	26688.2006	26717.3000	29.0994	153.2499	153.2735	
10:07:00	2:05:52:00	26694.7405	26715.6400	20.8995	153.2706	153.2939	
10:37:00	2:06:22:00	26673.8182	26699.6600	25.8418	153.2982	153.3200	
11:07:00	2:06:52:00	26667.1611	26697.3700	30.2089	153.3418	153.3665	
11:37:00	2:07:22:00	26658.3366	26689.7200	31.3834	153.3119	153.3348	
12:07:00	2:07:52:00	26674.2271	26705.2300	31.0029	153.3280	153.3529	
12:37:00	2:08:22:00	26707.6715	26733.4600	25.7885	153.4278	153.4572	
13:07:00	2:08:52:00	26731.5142	26757.5200	26.0058	153.4909	153.5150	
13:37:00	2:09:22:00	26670.0295	26685.1600	15.1305	153.4359	153.4527	
14:07:00	2:09:52:00	26753.4710	26778.5300	25.0590	153.4611	153.4844	
14:37:00	2:10:22:00	26780.7810	26806.8700	26.0890	153.5460	153.5683	
15:07:00	2:10:52:00	26797.6826	26817.5100	19.8274	153.4726	153.4924	
15:37:00	2:11:22:00	26784.6734	26807.0200	22.3466	153.4118	153.4312	
16:07:00	2:11:52:00	26756.1085	26781.0900	24.9815	153.3487	153.3677	
16:37:00	2:12:22:00	26739.3040	26766.5000	27.1960	153.3119	153.3325	
17:07:00	2:12:52:00	26730.8962	26756.2100	25.3138	153.2947	153.3166	
17:37:00	2:13:22:00	26723.6549	26746.5200	22.8651	153.2982	153.3178	
18:07:00	2:13:52:00	26735.0368	26756.2100	21.1732	153.3085	153.3291	
18:37:00	2:14:22:00	26712.8591	26739.0100	26.1509	153.2924	153.3155	
19:07:00	2:14:52:00	26698.9930	26721.7900	22.7970	153.3027	153.3223	
19:37:00	2:15:22:00	26682.4795	26711.7500	29.2705	153.2947	153.3178	
20:07:00	2:15:52:00	26691.2888	26713.1400	21.8512	153.3177	153.3393	
20:37:00	2:16:22:00	26737.7262	26751.0700	13.3438	153.3647	153.3881	
21:07:00	2:16:52:00	26681.5445	26703.2800	21.7355	153.4003	153.4221	
21:37:00	2:17:22:00	26721.8555	26736.7400	14.8845	153.4806	153.4969	
22:07:00	2:17:52:00	26706.7279	26730.1200	23.3921	153.4588	153.4810	
22:37:00	2:18:22:00	26681.6847	26715.8100	34.1253	153.4474	153.4720	
23:07:00	2:18:52:00	26693.8161	26718.3200	24.5039	153.4600	153.4821	
23:37:00	2:19:22:00	26689.8488	26712.6200	22.7712	153.4623	153.4833	
Apr 15, 99 00:07:00	2:19:52:00	26694.4477	26720.8300	26.3823	153.4703	153.4924	
00:37:00	2:20:22:00	26698.7577	26725.6900	26.9323	153.4852	153.5094	
01:07:00	2:20:52:00	26686.3642	26708.2700	21.9058	153.4841	153.5048	
01:37:00	2:21:22:00	26729.5086	26771.1300	41.6214	153.5162	153.5490	
02:07:00	2:21:52:00	26717.8670	26747.9000	30.0330	153.5265	153.5535	
02:37:00	2:22:22:00	26744.7457	26768.3800	23.6343	153.5414	153.5683	
03:07:00	2:22:52:00	26724.9089	26753.5700	28.6611	153.5231	153.5490	
03:37:00	2:23:22:00	26707.5421	26734.4900	26.9479	153.5517	153.5717	
04:07:00	2:23:52:00	26712.8749	26732.6200	19.7451	153.5552	153.5739	
04:37:00	3:00:22:00	26713.5714	26737.4500	23.8786	153.5724	153.5921	
05:07:00	3:00:52:00	26712.3094	26737.9400	25.6306	153.4978	153.5207	
05:37:00	3:01:22:00	26700.0029	26737.9200	37.9171	153.4600	153.4855	
06:07:00	3:01:52:00	26706.9423	26727.4700	20.5277	153.4714	153.4901	
06:37:00	3:02:22:00	26688.0022	26711.1200	23.1178	153.4909	153.5116	
07:07:00	3:02:52:00	26710.1463	26732.3400	22.1937	153.5288	153.5501	
07:37:00	3:03:22:00	26717.5034	26738.8800	21.3766	153.5380	153.5626	
08:07:00	3:03:52:00	26714.8768	26734.6300	19.7532	153.5506	153.5717	
08:37:00	3:04:22:00	26717.6857	26738.8500	21.1643	153.5517	153.5739	
09:07:00	3:04:52:00	26698.9393	26724.6900	25.7507	153.5529	153.5739	
09:37:00	3:05:22:00	26698.8766	26730.1900	31.3134	153.5552	153.5785	
10:07:00	3:05:52:00	26693.5678	26724.7100	31.1422	153.5472	153.5728	
10:37:00	3:06:22:00	26764.0065	26773.3600	9.3535	153.6125	153.6340	
11:07:00	3:06:52:00	26710.3778	26737.9500	27.5722	153.5575	153.5853	
11:37:00	3:07:22:00	26715.8777	26739.8800	24.0023	153.5678	153.5898	
12:07:00	3:07:52:00	26698.4976	26724.0800	25.5824	153.5598	153.5819	
12:37:00	3:08:22:00	26710.4655	26735.2100	24.7445	153.5747	153.5966	
13:07:00	3:08:52:00	26707.7773	26729.3900	21.6127	153.5747	153.5966	

Data

9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)
						Comments
13:37:00	3:09:22:00	26701.6080	26727.8300	26.2220	153.5517	153.5751
14:07:00	3:09:52:00	26707.0045	26732.1700	25.1655	153.5770	153.6000
14:37:00	3:10:22:00	26701.2972	26723.0400	21.7428	153.5724	153.5932
15:07:00	3:10:52:00	26699.9350	26727.8800	27.9450	153.5758	153.5988
15:37:00	3:11:22:00	26696.9112	26718.4200	21.5088	153.5770	153.5977
16:07:00	3:11:52:00	26706.9611	26732.2800	25.3189	153.5804	153.6011
16:37:00	3:12:22:00	26695.4983	26720.9400	25.4417	153.5804	153.6022
17:07:00	3:12:52:00	26699.7661	26722.2100	22.4439	153.5838	153.6057
17:37:00	3:13:22:00	26702.6064	26724.5700	21.9636	153.5838	153.6045
18:07:00	3:13:52:00	26702.0606	26729.3100	27.2494	153.5816	153.6057
18:37:00	3:14:22:00	26715.6443	26740.6900	25.0457	153.5930	153.6147
19:07:00	3:14:52:00	26697.4957	26727.3400	29.8443	153.5816	153.6079
19:37:00	3:15:22:00	26717.8400	26733.5400	15.7000	153.6240	153.6385
20:07:00	3:15:52:00	26697.7469	26725.2200	27.4731	153.5965	153.6181
20:37:00	3:16:22:00	26707.5120	26735.1100	27.5980	153.6010	153.6238
21:07:00	3:16:52:00	26696.3774	26720.8700	24.4926	153.5965	153.6158
21:37:00	3:17:22:00	26700.3409	26721.3500	21.0091	153.5999	153.6192
22:07:00	3:17:52:00	26700.3916	26723.6200	23.2284	153.5999	153.6204
22:37:00	3:18:22:00	26690.5371	26713.8800	23.3429	153.5930	153.6147
23:07:00	3:18:52:00	26694.3436	26717.0700	22.7264	153.6022	153.6204
23:37:00	3:19:22:00	26698.3892	26719.1600	20.7708	153.6045	153.6238
Apr 16, 99 00:07:00	3:19:52:00	26692.9862	26716.4500	23.4638	153.5999	153.6215
00:37:00	3:20:22:00	26698.9665	26720.4400	21.4735	153.6056	153.6238
01:07:00	3:20:52:00	26696.7033	26722.4600	25.7567	153.6068	153.6306
01:37:00	3:21:22:00	26698.8408	26721.4600	22.6192	153.6102	153.6306
02:07:00	3:21:52:00	26693.0584	26718.1800	25.1216	153.6102	153.6317
02:37:00	3:22:22:00	26692.6840	26719.8800	27.1960	153.6091	153.6340
03:07:00	3:22:52:00	26690.1864	26715.2200	25.0336	153.6114	153.6328
03:37:00	3:23:22:00	26693.7056	26717.8400	24.1344	153.6125	153.6328
04:07:00	3:23:52:00	26696.8140	26721.7000	24.8860	153.6194	153.6396
04:37:00	4:00:22:00	26686.8052	26722.3000	35.4948	153.6033	153.6317
05:07:00	4:00:52:00	26688.0175	26714.7400	26.7225	153.6091	153.6294
05:37:00	4:01:22:00	26694.9758	26716.4000	21.4242	153.6217	153.6408
06:07:00	4:01:52:00	26694.2950	26724.0600	29.7650	153.6114	153.6385
06:37:00	4:02:22:00	26695.1736	26725.2600	30.0864	153.6274	153.6498
07:07:00	4:02:52:00	26689.0076	26720.1200	31.1124	153.6137	153.6408
07:37:00	4:03:22:00	26704.7940	26727.0300	22.2360	153.6354	153.6555
08:07:00	4:03:52:00	26696.8211	26730.6200	33.7989	153.6228	153.6521
08:37:00	4:04:22:00	26695.5043	26722.2400	26.7357	153.6320	153.6543
09:07:00	4:04:52:00	26700.7167	26728.4500	27.7333	153.6343	153.6577
09:37:00	4:05:22:00	26700.4894	26729.4400	28.9506	153.6389	153.6589
10:07:00	4:05:52:00	26698.1328	26733.6000	35.4672	153.6194	153.6521
10:37:00	4:06:22:00	26696.5521	26720.1800	23.6279	153.6400	153.6611
11:07:00	4:06:52:00	26692.5815	26715.8400	23.2585	153.6331	153.6532
11:37:00	4:07:22:00	26696.2566	26720.5600	24.3034	153.6526	153.6679
12:07:00	4:07:52:00	26688.7526	26723.5800	34.8274	153.6377	153.6634
12:37:00	4:08:22:00	26700.6609	26723.6300	22.9691	153.6733	153.6872
13:07:00	4:08:52:00	26704.5961	26729.5500	24.9539	153.6297	153.6555
13:37:00	4:09:22:00	26701.2015	26723.1000	21.8985	153.6481	153.6668
14:07:00	4:09:52:00	26698.6215	26722.4600	23.8385	153.6515	153.6691
14:37:00	4:10:22:00	26700.3128	26726.3100	25.9972	153.6435	153.6668
15:07:00	4:10:52:00	26714.5725	26730.6400	16.0675	153.6710	153.6872
15:37:00	4:11:22:00	26723.6222	26737.0900	13.4678	153.7569	153.7664
16:07:00	4:11:52:00	26738.0142	26761.0000	22.9858	153.6985	153.7268
16:37:00	4:12:22:00	26702.1827	26728.2100	26.0273	153.6733	153.6917
17:07:00	4:12:52:00	26705.0740	26728.5300	23.4560	153.6400	153.6611
17:37:00	4:13:22:00	26724.2237	26740.3100	16.0863	153.6446	153.6657
18:07:00	4:13:52:00	26703.1027	26727.9200	24.8173	153.6767	153.6951

Data							
9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
18:37:00	4:14:22:00	26702.2878	26727.7400	25.4522	153.6584	153.6804	
19:07:00	4:14:52:00	26698.8314	26729.8800	31.0486	153.6549	153.6815	
19:37:00	4:15:22:00	26703.2131	26725.6500	22.4369	153.6561	153.6747	
20:07:00	4:15:52:00	26698.9573	26721.4000	22.4427	153.6503	153.6668	
20:37:00	4:16:22:00	26704.6316	26731.7900	27.1584	153.6469	153.6725	
21:07:00	4:16:52:00	26695.3328	26722.1200	26.7872	153.6309	153.6510	
21:37:00	4:17:22:00	26691.2189	26721.0300	29.8111	153.6366	153.6600	
22:07:00	4:17:52:00	26711.7159	26736.4000	24.6841	153.6549	153.6759	
22:37:00	4:18:22:00	26695.4957	26727.3100	31.8143	153.6526	153.6770	
23:07:00	4:18:52:00	26697.5526	26720.9800	23.4274	153.6664	153.6815	
23:37:00	4:19:22:00	26694.6788	26718.3700	23.6912	153.6584	153.6770	
Apr 17, 99 00:07:00	4:19:52:00	26699.8453	26722.0800	22.2347	153.6882	153.7008	
00:37:00	4:20:22:00	26708.6636	26739.0200	30.3564	153.6756	153.6996	
01:07:00	4:20:52:00	26701.5494	26726.2000	24.6506	153.6779	153.6962	
01:37:00	4:21:22:00	26693.8041	26718.6200	24.8159	153.6607	153.6804	
02:07:00	4:21:52:00	26704.6438	26722.6700	18.0262	153.6779	153.6962	
02:37:00	4:22:22:00	26704.4616	26732.8000	28.3384	153.6882	153.7110	
03:07:00	4:22:52:00	26706.5484	26737.9100	31.3616	153.6916	153.7166	
03:37:00	4:23:22:00	26702.0074	26721.1900	19.1826	153.6870	153.7042	
04:07:00	4:23:52:00	26697.4226	26718.4900	21.0674	153.6859	153.7042	
04:37:00	5:00:22:00	26700.7077	26727.5000	26.7923	153.6882	153.7098	
05:07:00	5:00:52:00	26694.5365	26723.0200	28.4835	153.6801	153.7019	
05:37:00	5:01:22:00	26700.4883	26721.8300	21.3417	153.7054	153.7189	
06:07:00	5:01:52:00	26692.8391	26724.2500	31.4109	153.6939	153.7166	
06:37:00	5:02:22:00	26694.8423	26717.5700	22.7277	153.6893	153.7064	
07:07:00	5:02:52:00	26694.7148	26718.6500	23.9352	153.6847	153.7053	
07:37:00	5:03:22:00	26713.5574	26739.0000	25.4426	153.7042	153.7245	
08:07:00	5:03:52:00	26709.2522	26728.8700	19.6178	153.7077	153.7245	
08:37:00	5:04:22:00	26708.9423	26734.5800	25.6377	153.7134	153.7325	
09:07:00	5:04:52:00	26697.1963	26723.2700	26.0737	153.6996	153.7178	
09:37:00	5:05:22:00	26692.1165	26727.1900	35.0735	153.6962	153.7234	
10:07:00	5:05:52:00	26710.7289	26739.9000	29.1711	153.7019	153.7302	
10:37:00	5:06:22:00	26711.1745	26742.6600	31.4855	153.7134	153.7370	
11:07:00	5:06:52:00	26698.4083	26733.2300	34.8217	153.7054	153.7313	
11:37:00	5:07:22:00	26694.1030	26734.4300	40.3270	153.7088	153.7359	
12:07:00	5:07:52:00	26709.6922	26733.7100	24.0178	153.7248	153.7472	
12:37:00	5:08:22:00	26702.1883	26727.6400	25.4517	153.7099	153.7313	
13:07:00	5:08:52:00	26714.3527	26741.8400	27.4873	153.7214	153.7461	
13:37:00	5:09:22:00	26684.8000	26706.4500	21.6500	153.7077	153.7245	
14:07:00	5:09:52:00	26810.8940	26833.5900	22.6960	153.8543	153.8785	
14:37:00	5:10:22:00	26828.2876	26848.7400	20.4524	153.8749	153.8943	
15:07:00	5:10:52:00	26786.2464	26814.7800	28.5336	153.8429	153.8581	
15:37:00	5:11:22:00	26862.5080	26881.3200	18.8120	153.8612	153.8807	
16:07:00	5:11:52:00	26820.3948	26834.1600	13.7652	153.8188	153.8298	
16:37:00	5:12:22:00	26786.3032	26801.0000	14.6968	153.7615	153.7755	
17:07:00	5:12:52:00	26855.8462	26872.0300	16.1838	153.7970	153.8151	
17:37:00	5:13:22:00	26804.4243	26824.7800	20.3557	153.7501	153.7642	
18:07:00	5:13:52:00	26835.0456	26855.5200	20.4744	153.7489	153.7698	
18:37:00	5:14:22:00	26794.1288	26820.4800	26.3512	153.7111	153.7302	
19:07:00	5:14:52:00	26820.1712	26840.5800	20.4088	153.7122	153.7336	
19:37:00	5:15:22:00	26766.0477	26785.6200	19.5723	153.6733	153.6883	
20:07:00	5:15:52:00	26825.0867	26837.1800	12.0933	153.6790	153.7053	
20:37:00	5:16:22:00	26812.6562	26829.7800	17.1238	153.7088	153.7257	
21:07:00	5:16:52:00	26822.6698	26841.4300	18.7602	153.7340	153.7517	
21:37:00	5:17:22:00	26767.9487	26789.8600	21.9113	153.6928	153.7087	
22:07:00	5:17:52:00	26797.2860	26811.7700	14.4840	153.7088	153.7257	
22:37:00	5:18:22:00	26780.5191	26827.5800	47.0609	153.6801	153.7087	
23:07:00	5:18:52:00	26773.2846	26800.6700	27.3854	153.6813	153.7019	

Data

9431Q-16E		9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	Comments
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	
	23:37:00	5:19:22:00	26795.6820	26816.1900	20.5080	153.7099	153.7268
Apr 18, 99	00:07:00	5:19:52:00	26785.4471			153.7077	
	00:37:00	5:20:22:00	26788.4159			153.7122	
	01:07:00	5:20:52:00	26764.7887			153.7099	
	01:37:00	5:21:22:00	26751.7758			153.7054	
	02:07:00	5:21:52:00	26825.4331			153.7294	
	02:37:00	5:22:22:00	26794.2366			153.7627	
	03:07:00	5:22:52:00	26734.4490			153.7248	
	03:37:00	5:23:22:00	26788.0947			153.7776	
	04:07:00	5:23:52:00	26748.6622			153.7375	
	04:37:00	6:00:22:00	26744.5379			153.7638	
	05:07:00	6:00:52:00	26779.7973			153.7638	
	05:37:00	6:01:22:00	26756.1090			153.7489	
	06:07:00	6:01:52:00	26735.6886			153.7443	
	06:37:00	6:02:22:00	26720.5827			153.7420	
	07:07:00	6:02:52:00	26719.0923			153.7409	
	07:37:00	6:03:22:00	26724.1532			153.7432	
	08:07:00	6:03:52:00	26725.7642			153.7455	
	08:37:00	6:04:22:00	26738.0552			153.7523	
	09:07:00	6:04:52:00	26578.2709			153.7913	
	09:37:00	6:05:22:00	26602.8098			153.6859	
	10:07:00	6:05:52:00	26538.5660			153.5930	
	10:37:00	6:06:22:00	26566.7057			153.5770	
	11:07:00	6:06:52:00	26574.8821			153.5472	
	11:37:00	6:07:22:00	26580.0710			153.5208	
	12:07:00	6:07:52:00	26612.0018			153.5345	
	12:37:00	6:08:22:00	26578.7481			153.5357	
	13:07:00	6:08:52:00	26564.4648			153.5460	
	13:37:00	6:09:22:00	26550.2539			153.5242	
	14:07:00	6:09:52:00	26548.0087			153.5173	
	14:37:00	6:10:22:00	26547.0843			153.5288	
	15:07:00	6:10:52:00	26549.1074			153.5345	
	15:37:00	6:11:22:00	26544.2762			153.5368	
	16:07:00	6:11:52:00	26537.6308			153.5277	
	16:37:00	6:12:22:00	26536.6612			153.5334	
	17:07:00	6:12:52:00	26534.5492			153.5254	
	17:37:00	6:13:22:00	26567.1779			153.5414	
	18:07:00	6:13:52:00	26527.6128			153.5231	
	18:37:00	6:14:22:00	26522.9016			153.5173	
	19:07:00	6:14:52:00	26539.5267			153.5288	
	19:37:00	6:15:22:00	26530.9682			153.5449	
	20:07:00	6:15:52:00	26520.5187			153.5357	
	20:37:00	6:16:22:00	26518.2487			153.5334	
	21:07:00	6:16:52:00	26508.6112			153.5334	
	21:37:00	6:17:22:00	26530.4288			153.5368	
	22:07:00	6:17:52:00	26539.4576			153.5368	
	22:37:00	6:18:22:00	26500.4067			153.5403	
	23:07:00	6:18:52:00	26524.5068			153.5345	
	23:37:00	6:19:22:00	26533.0664			153.5368	
Apr 19, 99	00:07:00	6:19:52:00	26538.8871			153.5391	
	00:37:00	6:20:22:00	26508.6876			153.5472	
	01:07:00	6:20:52:00	26458.2160			153.5380	
	01:37:00	6:21:22:00	26467.9684			153.5265	
	02:07:00	6:21:52:00	26444.6328			153.5540	
	02:37:00	6:22:22:00	26469.0961			153.5517	
	03:07:00	6:22:52:00	26545.5602			153.6171	
	03:37:00	6:23:22:00	26526.6381			153.6171	
	04:07:00	6:23:52:00	26474.9362			153.5460	

DEI

9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC) Comments
04:37:00	7:00:22:00	26532.0979			153.5701	
05:00:00	7:00:45:00	27600.6536			154.1553	shut in well
05:30:00	7:01:15:00	27696.7454			153.1833	
06:00:00	7:01:45:00	27728.4540			152.4712	
06:30:00	7:02:15:00	27743.1620			152.2188	
07:00:00	7:02:45:00	27752.4100			152.0711	
07:30:00	7:03:15:00	27758.9734			151.9245	
08:00:00	7:03:45:00	27763.1270			151.8298	
08:30:00	7:04:15:00	27766.8509			151.7443	
09:00:00	7:04:45:00	27769.8181			151.6691	
09:30:00	7:05:15:00	27772.4152			151.6009	
10:00:00	7:05:45:00	27774.5905			151.5419	
10:30:00	7:06:15:00	27776.4527			151.4876	
11:00:00	7:06:45:00	27778.0773			151.4390	
11:30:00	7:07:15:00	27779.4917			151.3950	
12:00:00	7:07:45:00	27781.0264			151.3545	
12:30:00	7:08:15:00	27782.3523			151.3186	
13:00:00	7:08:45:00	27783.4240			151.2827	
13:30:00	7:09:15:00	27784.3888			151.2514	
14:00:00	7:09:45:00	27785.5018			151.2225	
14:30:00	7:10:15:00	27786.4623			151.1935	
15:00:00	7:10:45:00	27787.2926			151.1680	
15:30:00	7:11:15:00	27788.1220			151.1425	
16:00:00	7:11:45:00	27788.8984			151.1194	
16:30:00	7:12:15:00	27789.6984			151.0974	
17:00:00	7:12:45:00	27790.4734			151.0742	
17:30:00	7:13:15:00	27791.1452			151.0533	
18:00:00	7:13:45:00	27791.9418			151.0336	
18:30:00	7:14:15:00	27792.5100			151.0151	
19:00:00	7:14:45:00	27793.1038			150.9954	
19:30:00	7:15:15:00	27793.7461			150.9780	
20:00:00	7:15:45:00	27794.2352			150.9629	
20:30:00	7:16:15:00	27794.6995			150.9467	
21:00:00	7:16:45:00	27795.2139			150.9304	
21:30:00	7:17:15:00	27795.6503			150.9177	
22:00:00	7:17:45:00	27796.1629			150.9037	
22:30:00	7:18:15:00	27796.7516			150.8887	
23:00:00	7:18:45:00	27797.2637			150.8747	
23:30:00	7:19:15:00	27797.7497			150.8620	
Apr 20, 99 00:00:00	7:19:45:00	27798.1346			150.8492	
00:30:00	7:20:15:00	27798.6954			150.8376	
01:00:00	7:20:45:00	27799.3817			150.8272	
01:30:00	7:21:15:00	27799.7660			150.8144	
02:00:00	7:21:45:00	27800.1996			150.8040	
02:30:00	7:22:15:00	27800.4055			150.7947	
03:00:00	7:22:45:00	27800.6618			150.7854	
03:30:00	7:23:15:00	27801.1455			150.7750	
04:00:00	7:23:45:00	27801.4015			150.7657	
04:30:00	8:00:15:00	27801.7583			150.7564	
05:00:00	8:00:45:00	27802.1904			150.7483	
05:30:00	8:01:15:00	27802.6479			150.7390	
06:00:00	8:01:45:00	27802.9284			150.7309	
06:30:00	8:02:15:00	27803.4106			150.7227	
07:00:00	8:02:45:00	27803.7157			150.7158	
07:30:00	8:03:15:00	27803.9959			150.7076	
08:00:00	8:03:45:00	27804.4275			150.6995	
08:30:00	8:04:15:00	27804.7331			150.6902	
09:00:00	8:04:45:00	27805.0372			150.6856	

Data

9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC) Comments
09:30:00	8:05:15:00	27805.4181			150.6775	
10:00:00	8:05:45:00	27805.7228			150.6705	
10:30:00	8:06:15:00	27805.9508			150.6670	
11:00:00	8:06:45:00	27806.1297			150.6589	
11:30:00	8:07:15:00	27806.5601			150.6531	
12:00:00	8:07:45:00	27806.9151			150.6461	
12:30:00	8:08:15:00	27807.1436			150.6403	
13:00:00	8:08:45:00	27807.4729			150.6345	
13:30:00	8:09:15:00	27807.6758			150.6299	
14:00:00	8:09:45:00	27808.0051			150.6241	
14:30:00	8:10:15:00	27808.1825			150.6206	
15:00:00	8:10:45:00	27808.3858			150.6136	
15:30:00	8:11:15:00	27808.7150			150.6078	
16:00:00	8:11:45:00	27808.8673			150.6032	
16:30:00	8:12:15:00	27809.1455			150.5997	
17:00:00	8:12:45:00	27809.4746			150.5939	
17:30:00	8:13:15:00	27809.8286			150.5892	
18:00:00	8:13:45:00	27810.0313			150.5846	
18:30:00	8:14:15:00	27810.2589			150.5811	
19:00:00	8:14:45:00	27810.3857			150.5776	
19:30:00	8:15:15:00	27810.7646			150.5741	
20:00:00	8:15:45:00	27810.9672			150.5695	
20:30:00	8:16:15:00	27811.2957			150.5660	
21:00:00	8:16:45:00	27811.6241			150.5625	
21:30:00	8:17:15:00	27811.8012			150.5590	
22:00:00	8:17:45:00	27811.9279			150.5555	
22:30:00	8:18:15:00	27812.1804			150.5532	
23:00:00	8:18:45:00	27812.5847			150.5486	
23:30:00	8:19:15:00	27812.6608			150.5451	
Apr 21, 99 00:00:00	8:19:45:00	27812.7874			150.5416	
00:30:00	8:20:15:00	27813.0653			150.5381	
01:00:00	8:20:45:00	27813.2169			150.5358	
01:30:00	8:21:15:00	27813.4190			150.5335	
02:00:00	8:21:45:00	27813.6969			150.5300	
02:30:00	8:22:15:00	27813.9747			150.5265	
03:00:00	8:22:45:00	27814.2021			150.5230	
03:30:00	8:23:15:00	27814.3537			150.5207	
04:00:00	8:23:45:00	27814.5303			150.5195	
04:30:00	9:00:15:00	27814.7073			150.5160	
05:00:00	9:00:45:00	27814.9344			150.5149	
05:30:00	9:01:15:00	27815.0608			150.5114	
06:00:00	9:01:45:00	27815.2626			150.5114	
06:30:00	9:02:15:00	27815.5404			150.5079	
07:00:00	9:02:45:00	27815.7677			150.5044	
07:30:00	9:03:15:00	27815.8183			150.5021	
08:00:00	9:03:45:00	27816.1969			150.4986	
08:30:00	9:04:15:00	27816.4493			150.4963	
09:00:00	9:04:45:00	27816.5755			150.4951	
09:30:00	9:05:15:00	27816.7774			150.4928	
10:00:00	9:05:45:00	27817.0298			150.4905	
10:30:00	9:06:15:00	27817.0046			150.4893	
11:00:00	9:06:45:00	27817.2319			150.4858	
11:30:00	9:07:15:00	27817.3832			150.4858	
12:00:00	9:07:45:00	27817.6860			150.4835	
12:30:00	9:08:15:00	27817.9130			150.4823	
13:00:00	9:08:45:00	27817.8627			150.4800	
13:30:00	9:09:15:00	27818.0646			150.4777	
14:00:00	9:09:45:00	27818.3421			150.4765	

Data

9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC) Comments
14:30:00	9:10:15:00	27818.4178			150.4754	
15:00:00	9:10:45:00	27818.5944			150.4742	
15:30:00	9:11:15:00	27818.6450			150.4719	
16:00:00	9:11:45:00	27819.0233			150.4707	
16:30:00	9:12:15:00	27819.1242			150.4707	
17:00:00	9:12:45:00	27819.2756			150.4684	
17:30:00	9:13:15:00	27819.4522			150.4672	
18:00:00	9:13:45:00	27819.7549			150.4672	
18:30:00	9:14:15:00	27819.8811			150.4638	
19:00:00	9:14:45:00	27820.0324			150.4638	
19:30:00	9:15:15:00	27820.2090			150.4626	
20:00:00	9:15:45:00	27820.3351			150.4614	
20:30:00	9:16:15:00	27820.5621			150.4603	
21:00:00	9:16:45:00	27820.6883			150.4591	
21:30:00	9:17:15:00	27820.7892			150.4568	
22:00:00	9:17:45:00	27820.9910			150.4568	
22:30:00	9:18:15:00	27821.0667			150.4556	
23:00:00	9:18:45:00	27821.2432			150.4545	
23:30:00	9:19:15:00	27821.4450			150.4545	
Apr 22, 99 00:00:00	9:19:45:00	27821.5711			150.4533	
00:30:00	9:20:15:00	27821.7729			150.4510	
01:00:00	9:20:45:00	27821.8990			150.4498	
01:30:00	9:21:15:00	27822.0504			150.4498	
02:00:00	9:21:45:00	27822.1512			150.4498	
02:30:00	9:22:15:00	27822.3530			150.4498	
03:00:00	9:22:45:00	27822.5548			150.4498	
03:30:00	9:23:15:00	27822.7061			150.4475	
04:00:00	9:23:45:00	27822.9583			150.4475	
04:30:00	10:00:15:00	27823.0340			150.4463	
05:00:00	10:00:45:00	27823.1348			150.4463	
05:30:00	10:01:15:00	27823.3366			150.4463	
06:00:00	10:01:45:00	27823.4879			150.4463	
06:30:00	10:02:15:00	27823.5888			150.4463	
07:00:00	10:02:45:00	27823.8158			150.4452	
07:30:00	10:03:15:00	27823.8915			150.4440	
08:00:00	10:03:45:00	27824.0932			150.4440	
08:30:00	10:04:15:00	27824.1436			150.4440	
09:00:00	10:04:45:00	27824.3706			150.4452	
09:30:00	10:05:15:00	27824.3958			150.4440	
10:00:00	10:05:45:00	27824.6733			150.4428	
10:30:00	10:06:15:00	27824.7741			150.4428	
11:00:00	10:06:45:00	27824.9002			150.4417	
11:30:00	10:07:15:00	27824.9507			150.4417	
12:00:00	10:07:45:00	27825.0011			150.4417	
12:30:00	10:08:15:00	27825.2029			150.4417	
13:00:00	10:08:45:00	27825.3290			150.4405	
13:30:00	10:09:15:00	27825.4298			150.4405	
14:00:00	10:09:45:00	27825.5559			150.4417	
14:30:00	10:10:15:00	27825.7325			150.4405	
15:00:00	10:10:45:00	27825.7577			150.4417	
15:30:00	10:11:15:00	27825.8586			150.4417	
16:00:00	10:11:45:00	27826.0856			150.4405	
16:30:00	10:12:15:00	27826.1360			150.4405	
17:00:00	10:12:45:00	27826.3882			150.4405	
17:30:00	10:13:15:00	27826.3377			150.4405	
18:00:00	10:13:45:00	27826.3882			150.4428	
18:30:00	10:14:15:00	27826.5647			150.4417	
19:00:00	10:14:45:00	27826.7413			150.4405	

Data							
9431Q-16E		9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
	19:30:00	10:15:15:00	27826.9178		150.4417		
	20:00:00	10:15:45:00	27827.0187		150.4417		
	20:30:00	10:16:15:00	27827.0943		150.4405		
	21:00:00	10:16:45:00	27827.2204		150.4417		
	21:30:00	10:17:15:00	27827.3213		150.4417		
	22:00:00	10:17:45:00	27827.4474		150.4428		
	22:30:00	10:18:15:00	27827.6239		150.4417		
	23:00:00	10:18:45:00	27827.7500		150.4405		
	23:30:00	10:19:15:00	27827.8761		150.4417		
Apr 23, 99	00:00:00	10:19:45:00	27827.9770		150.4417		
	00:30:00	10:20:15:00	27828.0527		150.4428		
	01:00:00	10:20:45:00	27828.1536		150.4428		
	01:30:00	10:21:15:00	27828.2544		150.4428		
	02:00:00	10:21:45:00	27828.3049		150.4428		
	02:30:00	10:22:15:00	27828.4310		150.4417		
	03:00:00	10:22:45:00	27828.5066		150.4428		
	03:30:00	10:23:15:00	27828.7588		150.4428		
	04:00:00	10:23:45:00	27828.8345		150.4417		
	04:30:00	11:00:15:00	27828.9354		150.4440		
	05:00:00	11:00:45:00	27829.0110		150.4428		
	05:30:00	11:01:15:00	27829.1119		150.4428		
	06:00:00	11:01:45:00	27829.1623		150.4452		
	06:30:00	11:02:15:00	27829.3137		150.4452		
	07:00:00	11:02:45:00	27829.4397		150.4463		
	07:30:00	11:03:15:00	27829.4650		150.4452		
	08:00:00	11:03:45:00	27829.5911		150.4440		
	08:30:00	11:04:15:00	27829.7928		150.4463		
	09:00:00	11:04:45:00	27829.8180		150.4475		
	09:30:00	11:05:15:00	27830.0198		150.4475		
	10:00:00	11:05:45:00	27830.0702		150.4475		
	10:30:00	11:06:15:00	27830.1963		150.4486		
	11:00:00	11:06:45:00	27830.3224		150.4498		
	11:30:00	11:07:15:00	27830.3981		150.4486		
	12:00:00	11:07:45:00	27830.4738		150.4498		
	12:30:00	11:08:15:00	27830.5494		150.4510		
	13:00:00	11:08:45:00	27830.6755		150.4498		
	13:30:00	11:09:15:00	27830.7764		150.4498		
	14:00:00	11:09:45:00	27830.9529		150.4510		
	14:30:00	11:10:15:00	27831.0034		150.4533		
	15:00:00	11:10:45:00	27831.1295		150.4521		
	15:30:00	11:11:15:00	27831.2303		150.4521		
	16:00:00	11:11:45:00	27831.3060		150.4533		
	16:30:00	11:12:15:00	27831.4321		150.4545		
	17:00:00	11:12:45:00	27831.5330		150.4545		
	17:30:00	11:13:15:00	27831.6338		150.4545		
	18:00:00	11:13:45:00	27831.6338		150.4568		
	18:30:00	11:14:15:00	27831.7599		150.4556		
	19:00:00	11:14:45:00	27831.8608		150.4556		
	19:30:00	11:15:15:00	27831.8608		150.4579		
	20:00:00	11:15:45:00	27832.0878		150.4568		
	20:30:00	11:16:15:00	27832.0878		150.4591		
	21:00:00	11:16:45:00	27832.2391		150.4591		
	21:30:00	11:17:15:00	27832.2895		150.4591		
	22:00:00	11:17:45:00	27832.3147		150.4603		
	22:30:00	11:18:15:00	27832.5669		150.4603		
	23:00:00	11:18:45:00	27832.6174		150.4603		
	23:30:00	11:19:15:00	27832.6678		150.4626		
Apr 24, 99	00:00:00	11:19:45:00	27832.7687		150.4626		

Data

9431Q-16E	9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)
00:30:00	11:20:15:00	27832.9452			150.4638	
01:00:00	11:20:45:00	27832.9956			150.4638	
01:30:00	11:21:15:00	27833.1722			150.4649	
02:00:00	11:21:45:00	27833.2478			150.4661	
02:30:00	11:22:15:00	27833.2730			150.4672	
03:00:00	11:22:45:00	27833.2982			150.4684	
03:30:00	11:23:15:00	27833.4495			150.4684	
04:00:00	11:23:45:00	27833.5756			150.4696	
04:30:00	12:00:15:00	27833.6765			150.4696	
05:00:00	12:00:45:00	27833.7774			150.4696	
05:30:00	12:01:15:00	27833.7773			150.4719	
06:00:00	12:01:45:00	27833.8782			150.4719	
06:30:00	12:02:15:00	27833.9791			150.4719	
07:00:00	12:02:45:00	27834.0800			150.4719	
07:30:00	12:03:15:00	27834.1304			150.4742	
08:00:00	12:03:45:00	27834.2817			150.4742	
08:30:00	12:04:15:00	27834.3826			150.4742	
09:00:00	12:04:45:00	27834.3825			150.4765	
09:30:00	12:05:15:00	27834.4834			150.4765	
10:00:00	12:05:45:00	27834.6347			150.4765	
10:30:00	12:06:15:00	27834.6599			150.4777	
11:00:00	12:06:45:00	27834.8112			150.4777	
11:30:00	12:07:15:00	27834.7355			150.4789	
12:00:00	12:07:45:00	27834.9120			150.4800	
12:30:00	12:08:15:00	27834.9372			150.4812	
13:00:00	12:08:45:00	27835.0380			150.4835	
13:30:00	12:09:15:00	27835.1389			150.4835	
14:00:00	12:09:45:00	27835.1641			150.4847	
14:30:00	12:10:15:00	27835.3407			150.4835	
15:00:00	12:10:45:00	27835.2902			150.4858	
15:30:00	12:11:15:00	27835.3911			150.4858	
16:00:00	12:11:45:00	27835.5676			150.4870	
16:30:00	12:12:15:00	27835.6936			150.4882	
17:00:00	12:12:45:00	27835.7441			150.4882	
17:30:00	12:13:15:00	27835.7440			150.4905	
18:00:00	12:13:45:00	27835.7943			150.4928	
18:30:00	12:14:15:00	27835.9205			150.4916	
19:00:00	12:14:45:00	27835.9708			150.4940	
19:30:00	12:15:15:00	27836.0969			150.4951	
20:00:00	12:15:45:00	27836.1221			150.4963	
20:30:00	12:16:15:00	27836.2482			150.4951	
21:00:00	12:16:45:00	27836.3238			150.4963	
21:30:00	12:17:15:00	27836.4752			150.4963	
22:00:00	12:17:45:00	27836.4246			150.4986	
22:30:00	12:18:15:00	27836.4751			150.4986	
23:00:00	12:18:45:00	27836.5759			150.4986	
23:30:00	12:19:15:00	27836.7020			150.4998	
Apr 25, 99 00:00:00	12:19:45:00	27836.7019			150.5021	
00:30:00	12:20:15:00	27836.8028			150.5021	
01:00:00	12:20:45:00	27836.9288			150.5033	
01:30:00	12:21:15:00	27836.9791			150.5056	
02:00:00	12:21:45:00	27837.0800			150.5056	
02:30:00	12:22:15:00	27837.1556			150.5067	
03:00:00	12:22:45:00	27837.1303			150.5079	
03:30:00	12:23:15:00	27837.3321			150.5079	
04:00:00	12:23:45:00	27837.3573			150.5091	
04:30:00	13:00:15:00	27837.4833			150.5102	
05:00:00	13:00:45:00	27837.5842			150.5102	

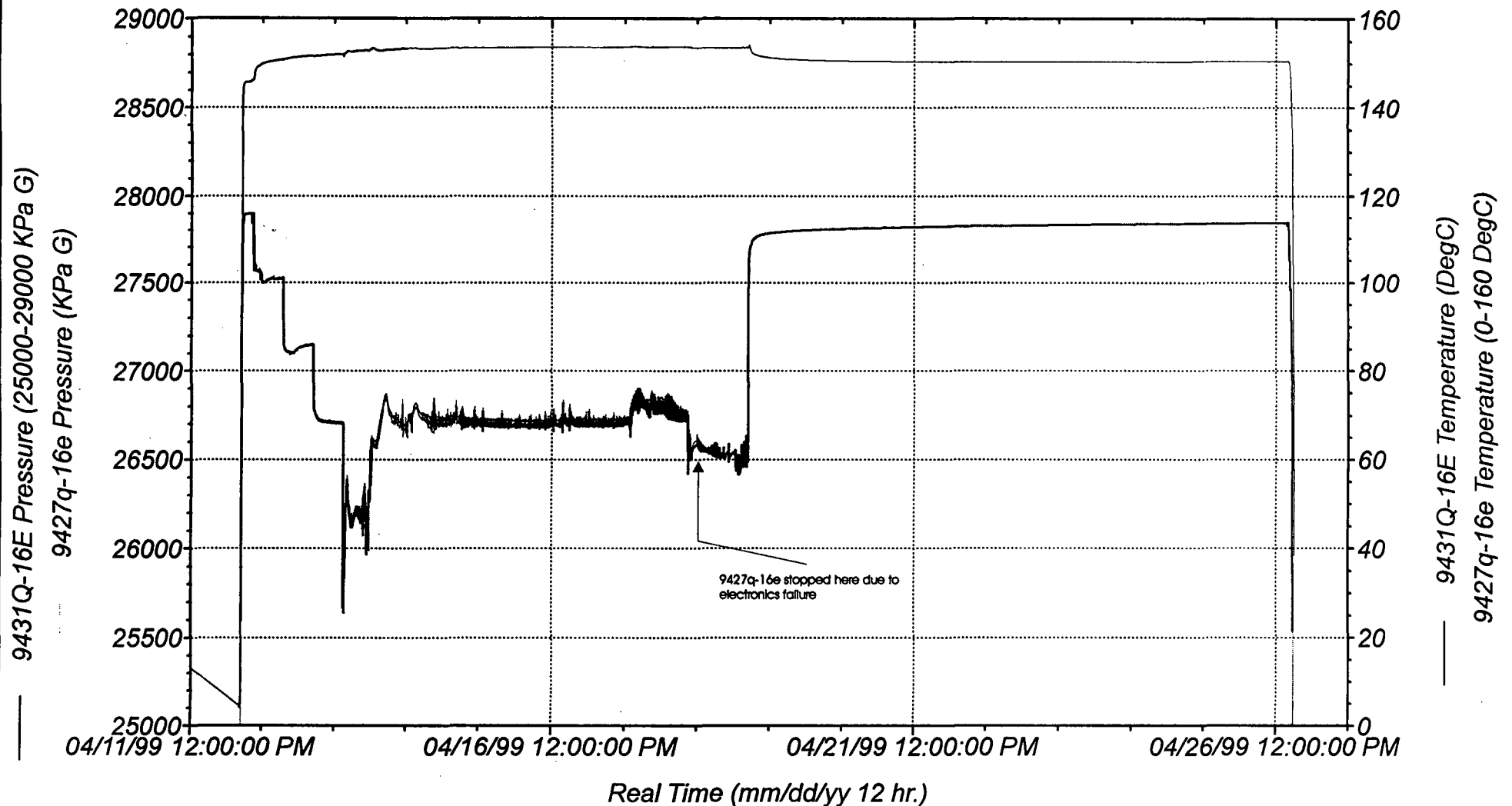
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9431Q-16E		9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
05:30:00	13:01:15:00	27837.6094			150.5114		
06:00:00	13:01:45:00	27837.7101			150.5137		
06:30:00	13:02:15:00	27837.8363			150.5126		
07:00:00	13:02:45:00	27837.8866			150.5149		
07:30:00	13:03:15:00	27837.9370			150.5149		
08:00:00	13:03:45:00	27838.0126			150.5160		
08:30:00	13:04:15:00	27837.9620			150.5184		
09:00:00	13:04:45:00	27837.9872			150.5195		
09:30:00	13:05:15:00	27838.1890			150.5195		
10:00:00	13:05:45:00	27838.2645			150.5207		
10:30:00	13:06:15:00	27838.3148			150.5230		
11:00:00	13:06:45:00	27838.4915			150.5218		
11:30:00	13:07:15:00	27838.4913			150.5242		
12:00:00	13:07:45:00	27838.6426			150.5242		
12:30:00	13:08:15:00	27838.6425			150.5265		
13:00:00	13:08:45:00	27838.7180			150.5277		
13:30:00	13:09:15:00	27838.7432			150.5288		
14:00:00	13:09:45:00	27838.8441			150.5288		
14:30:00	13:10:15:00	27838.9701			150.5300		
15:00:00	13:10:45:00	27839.0710			150.5300		
15:30:00	13:11:15:00	27839.0959			150.5335		
16:00:00	13:11:45:00	27839.2977			150.5335		
16:30:00	13:12:15:00	27839.1464			150.5335		
17:00:00	13:12:45:00	27839.1715			150.5346		
17:30:00	13:13:15:00	27839.3731			150.5369		
18:00:00	13:13:45:00	27839.3982			150.5381		
18:30:00	13:14:15:00	27839.4233			150.5393		
19:00:00	13:14:45:00	27839.5493			150.5404		
19:30:00	13:15:15:00	27839.6249			150.5416		
20:00:00	13:15:45:00	27839.6754			150.5416		
20:30:00	13:16:15:00	27839.7256			150.5439		
21:00:00	13:16:45:00	27839.7509			150.5428		
21:30:00	13:17:15:00	27839.8769			150.5439		
22:00:00	13:17:45:00	27839.9525			150.5451		
22:30:00	13:18:15:00	27839.9018			150.5474		
23:00:00	13:18:45:00	27839.9018			150.5474		
23:30:00	13:19:15:00	27840.0783			150.5486		
Apr 26, 99 00:00:00	13:19:45:00	27840.1538			150.5497		
00:30:00	13:20:15:00	27840.1536			150.5520		
01:00:00	13:20:45:00	27840.2796			150.5532		
01:30:00	13:21:15:00	27840.3552			150.5544		
02:00:00	13:21:45:00	27840.5316			150.5555		
02:30:00	13:22:15:00	27840.6325			150.5555		
03:00:00	13:22:45:00	27840.6072			150.5567		
03:30:00	13:23:15:00	27840.7332			150.5579		
04:00:00	13:23:45:00	27840.7583			150.5590		
04:30:00	14:00:15:00	27840.8592			150.5590		
05:00:00	14:00:45:00	27841.0105			150.5590		
05:30:00	14:01:15:00	27841.0102			150.5613		
06:00:00	14:01:45:00	27841.1111			150.5613		
06:30:00	14:02:15:00	27841.0604			150.5637		
07:00:00	14:02:45:00	27841.2118			150.5637		
07:30:00	14:03:15:00	27841.3124			150.5660		
08:00:00	14:03:45:00	27841.2617			150.5683		
08:30:00	14:04:15:00	27841.4130			150.5683		
09:00:00	14:04:45:00	27841.3877			150.5695		
09:30:00	14:05:15:00	27841.4379			150.5718		
10:00:00	14:05:45:00	27841.5388			150.5718		

Data							
9431Q-16E		9431Q-16E	9427q-16e	9427q-16e vs 9431Q-16E	9431Q-16E	9427q-16e	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (DDD:HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
10:30:00	14:06:15:00	27841.5892			150.5718		
11:00:00	14:06:45:00	27841.7403			150.5741		
11:30:00	14:07:15:00	27841.7653			150.5753		
12:00:00	14:07:45:00	27841.7904			150.5764		
12:30:00	14:08:15:00	27841.9164			150.5776		
13:00:00	14:08:45:00	27841.9415			150.5788		
13:30:00	14:09:15:00	27842.0170			150.5799		
14:00:00	14:09:45:00	27842.0925			150.5811		
14:30:00	14:10:15:00	27842.1681			150.5822		
15:00:00	14:10:45:00	27842.1931			150.5834		
15:30:00	14:11:15:00	27842.2690			150.5822		
16:00:00	14:11:45:00	27842.6165			150.6194		
16:12:00	14:11:57:00	27791.1405			150.2184		off bottom
16:42:00	14:12:27:00	27484.0016			146.3113		
17:12:00	14:12:57:00	27103.8957			137.7373		
17:42:00	14:13:27:00	24863.0903			93.1685		

Pressure & Temperature vs. Real Time

Company: Lee Tool, Div. of Schlumberger
Client: Chevron CanadaResources
Remarks: 9427q-16ebot. rec. & 9431q-16etoprec.

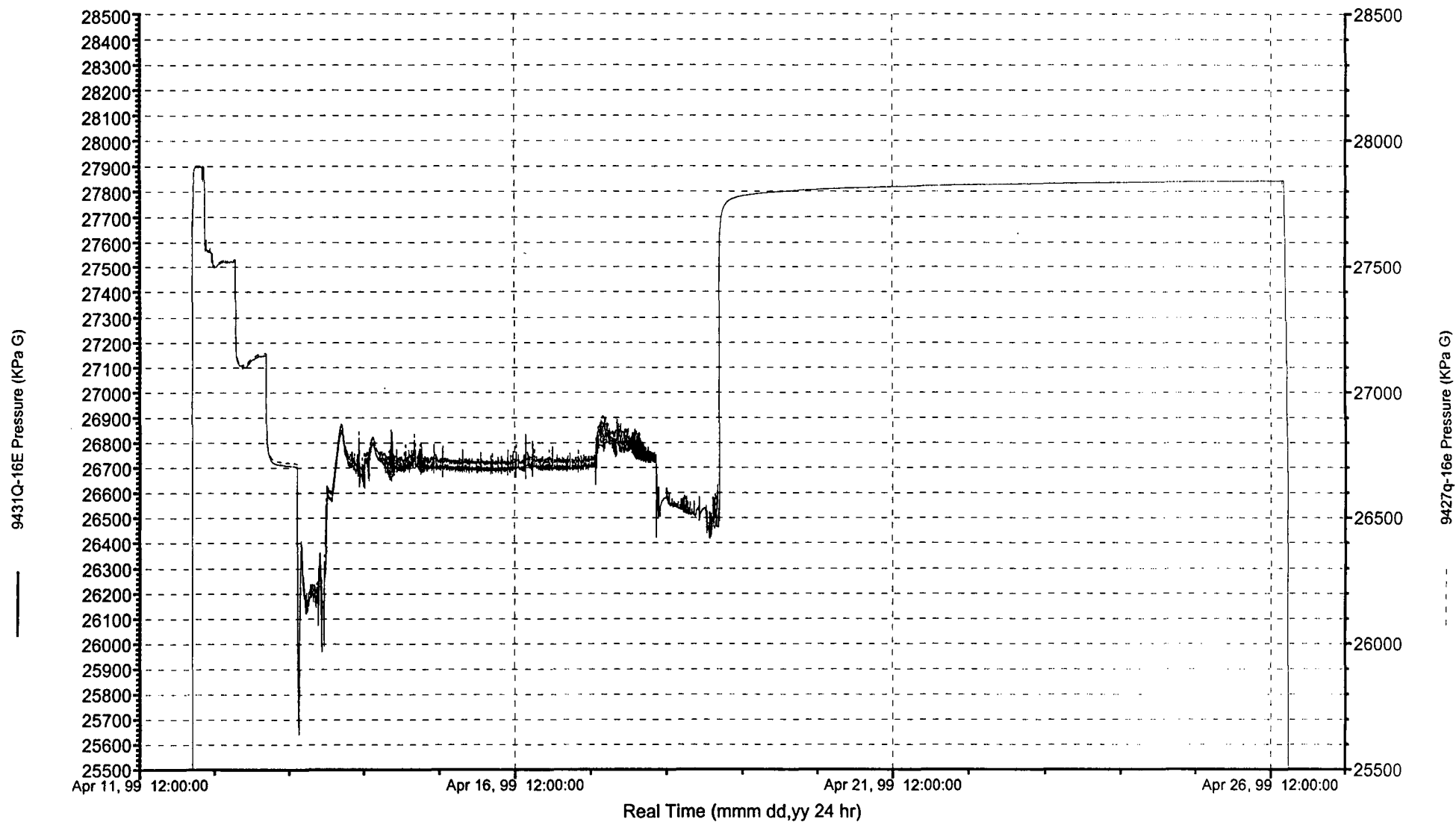
Field: Liard
Well Name: Chevron et al Liard
Well Number: k-29



Pressure vs. Real Time

Company: Lee Tool, Div. of Schlumberger
Client: Chevron Canada Resources
Remarks: 9427q-16e bot. rec. & 9431q-16e top rec.

Field: Liard
Well Name: Chevron et al Ft. Liard k-29
Well Number: k-29



Chevron Canada Resources

Static Gradient Out
Chevron et al Ft. Liard k-29
k-29

Apr 26, 99

Service Company Contact Info

Report Writer	Vio Tandara, 1-403-309-7913(347-2524)	Service Company	Lee Tool, Div. of Schlumberger
Operator	Dale Sallstrom, 1-780-778-2371	Job ID	k-29ext
		Test Date	Apr 26, 99

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

Static Gradient Out

Chevron Canada Resources
Alberta, Canada

Apr 26, 99

Chevron et al Ft. Liard k-29

k-29

Liard, Nahanni

Well

Client	Chevron Canada Resources	Province	Alberta	Country	Canada
Well Name	Chevron et al Ft. Liard k-29	Deviated Well	Yes	Well Status	Gas
Well No.	k-29	KB Elevation	418.80 m	CF Elevation	409.60 m
Field	Liard	Pool	Nahanni	Pool Datum	2500.00 mSS

Test

Test Type				Static Gradient Out		Atmospheric		101.30 KPa A			
Test Start (mm/dd/yy)		04/26/99		04:12 PM		Test Finish		04/26/99		06:43 PM	
On Bottom		04/12/99		05:07 AM		Off Bottom		04/26/99		04:12 PM	
Shut In		04/19/99		05:00 AM		ET0		04/12/99		04:15 AM	
		Meas. Depth [mCF]		TVD [mCF]		Est. Pressure [KPa G]		Est. Gradient [KPa/m]		Est. Temperature [DegC]	
										Grad. Threshold 2.00 KPa/m	
Well Datum				2909.60		29353.51		1.55		Grad. Recorder 9431Q-16E	
Run Depth		2641.50		2624.87		27854.35		1.55			
Avg. MPP Depth		2840.80		2785.74		28103.93		1.55			
Operator						Dale Sallstrom, 1-780-778-2371					
Service Company						Lee Tool, Div. of Schlumberger					
Remarks											
9427q-16e bot. rec. & 9431q-16e top rec.											

Depth References

Depth Reference	Offset [m]	Elevation [mMSL]
Casing Flange (CF)		409.60
Kelly Bushing (KB)	CF + 9.20	418.80

Perforations

Perf Top MD, [mKB]	Perf Bottom MD, [mKB]	Perf Top MD, [mCF]	Perf Bottom MD, [mCF]	MPP TVD, [mCF]	Pressure [KPa G]	Gradient [KPa/m]
2700.00	3000.00	2690.80	2990.80	2785.74	28103.93	1.55

Recorder Description

Model	LMR-3000S	Serial	9431Q-16E	Latest Calibration	03/10/99
Max. Rated Press.	110213.27 KPa G	Max. Rated Temp.	174.96 DegC		

Gradient Stops

Depth				Sample R/T [mm dd, 24hr]	Pressure [KPa G]	Gradient [KPa/m]	Temperature [DegC]
Tool String MD, [mKB]	Recorder MD, [mKB]	Recorder MD, [mCF]	Recorder TVD, [mCF]				
504.00	502.50	493.30	493.15	Apr 26, 99 17:58:25	23743.07		58.49
1004.00	1002.50	993.30	992.13	17:46:50	24838.25	2.19	87.31
1504.00	1502.50	1493.30	1488.17	17:34:40	25838.15	2.02	107.49
2004.00	2002.50	1993.30	1986.26	17:21:55	26770.56	1.87	129.68
2204.00	2202.50	2193.30	2185.69	17:11:30	27106.72	1.69	137.82
2304.00	2302.50	2293.30	2285.37	17:00:30	27282.46	1.76	141.17
2404.00	2402.50	2393.30	2385.03	16:49:20	27459.96	1.78	144.42
2504.00	2502.50	2493.30	2484.66	16:37:35	27621.57	1.62	147.79
2554.00	2552.50	2543.30	2534.21	16:27:20	27709.22	1.77	148.92
2604.00	2602.50	2593.30	2582.13	16:17:10	27788.05	1.64	149.99
2643.00	2641.50	2632.30	2617.05	15:02:20	27842.22	1.55	150.58

Deviated Well Survey

Meas. Depth [mKB]	Inclination [Degrees]	TVD [mKB]	Meas. Depth [mCF]	TVD [mCF]
0.00		0.00	-9.20	-9.20
425.00	2.00	424.94	415.80	415.74
513.00	3.75	512.83	503.80	503.63
960.00	3.88	958.93	950.80	949.73
1027.00	4.00	1025.77	1017.80	1016.57
1502.00	9.00	1496.88	1492.80	1487.68
1512.70	8.90	1507.45	1503.50	1498.25
2001.20	3.70	1994.16	1992.00	1984.96
2030.00	3.40	2022.90	2020.80	2013.70
2202.00	6.60	2194.39	2192.80	2185.19
2288.20	2.80	2280.29	2279.00	2271.09
2307.30	3.20	2299.36	2298.10	2290.16
2393.70	5.50	2385.47	2384.50	2376.27
2403.30	5.50	2395.03	2394.10	2385.83
2413.10	5.30	2404.79	2403.90	2395.59
2484.00	4.40	2475.42	2474.80	2466.22
2510.00	4.60	2501.34	2500.80	2492.14
2548.60	11.00	2539.59	2539.40	2530.39
2558.30	13.50	2549.07	2549.10	2539.87
2598.40	20.30	2587.50	2589.20	2578.30
2608.00	22.60	2596.44	2598.80	2587.24
2636.40	29.80	2621.85	2627.20	2612.65
2646.00	31.90	2630.10	2636.80	2620.90
2655.60	33.90	2638.16	2646.40	2628.96
2694.20	37.40	2669.22	2685.00	2660.02
2703.90	36.70	2676.96	2694.70	2667.76
2848.90	35.60	2794.04	2839.70	2784.84
2858.60	35.60	2801.93	2849.40	2792.73

<i>Deviated Well Survey</i>				
Meas. Depth [mKB]	Inclination [Degrees]	TVD [mKB]	Meas. Depth [mCF]	TVD [mCF]
2983.00	36.10	2902.76	2973.80	2893.56
2990.04	36.10	2908.45	2980.84	2899.25
3001.00	36.10	2917.31	2991.80	2908.11

Tool Summary

Chevron Canada Resources
Alberta, Canada

Apr 26, 99

Chevron et al Ft. Liard k-29

k-29

Liard, Nahanni

Recorder Description

Tool	LMR-3000S	Serial	9431Q-16E	Latest Calibration	03/10/99	Battery Serial	165
Landed Depth	2043.50 mCF	Depth Offset	-1.50 m	Min. Battery	11.94 V		

Program: 30 day test fort-nelson

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	6	10			51840	14.8%	1.0949	51840		14.8%	1.0949	6
HB	10	5			172800	49.4%	1.9698	148311		42.4%	1.6907	8 13:59:15
HB	14	10			120960	34.6%	2.5549					
HB	30	15:00			2880	0.8%	5.0448					
Totals:	60				348480	99.7%	10.6645	200151		57.3%	2.7856	14 13:59:15

Calibration Summary

Chevron Canada Resources
Alberta, Canada

Apr 26, 99

Chevron et al Ft. Liard k-29

k-29

Liard, Nahanni

Recorder Description

Tool	Serial	Latest Calibration	Battery Serial
LMR-3000S	9431Q-16E	03/10/99	165
Landed Depth	Depth Offset	Min. Battery	
2043.50 mCF	-1.50 m	11.94 V	

Equations

FP = Pres Freq (Hz)

FT = Temp Freq (Hz)

$XP = 2.747100e+004 + (1.000000e-002) FP$

$XT = 4.165900e+004 + (1.000000e-002) FT$

$P_0 = 1.969811e+001 + (-1.905926e+000) XT + (-2.204650e-002) XT^2 + (5.969970e-007) XT^3 + (-1.199156e-008) XT^4$

$P_1 = 4.175652e+001 + (-2.090861e-002) XT + (3.950641e-005) XT^2 + (3.892917e-008) XT^3 + (1.680186e-010) XT^4$

$P_2 = -1.753347e-003 + (6.452854e-006) XT + (-1.495265e-007) XT^2 + (-6.967713e-010) XT^3 + (-1.314358e-012) XT^4$

$P_3 = 2.401419e-007 + (1.776446e-008) XT + (5.031246e-010) XT^2 + (2.763359e-012) XT^3 + (4.645005e-015) XT^4$

$P_4 = 6.002160e-010 + (-2.415368e-011) XT + (-5.531387e-013) XT^2 + (-3.138960e-015) XT^3 + (-5.151525e-018) XT^4$

Pressure (psiA) = $P_0 + P_1 XP + P_2 XP^2 + P_3 XP^3 + P_4 XP^4$

$T_0 = 2.574944e+001$

$T_1 = -7.444312e-001$

$T_2 = -8.630388e-004$

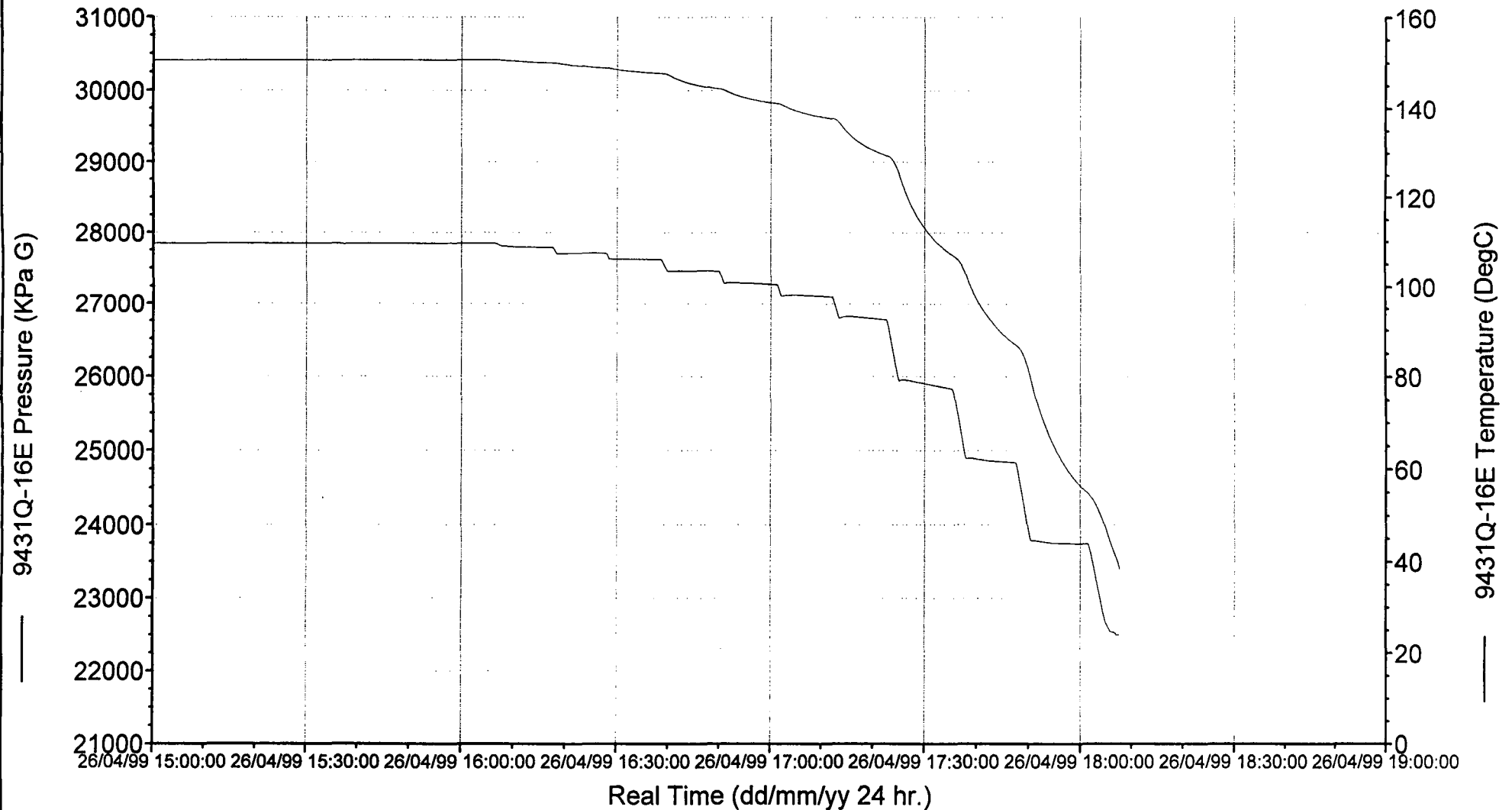
$T_3 = -6.347411e-007$

Temperature (degC) = $T_0 + T_1 XT + T_2 XT^2 + T_3 XT^3$

Pressure & Temperature vs. Real Time

Company: Lee Tool, Div. of Schlumberger
Client: Chevron Canada Resources
Remarks: 9427q-16e bot. rec. & 9431q-16e top rec.

Field: Liard
Well Name: Chevron et al Ft. Liard k-29
Well Number: k-29



Pressure vs. Depth

Company: Lee Tool, Div. of Schlumberger
Client: Chevron Canada Resources
Remarks: 9427q-16e bot. rec. & 9431q-16e top rec.

Field: Liard
Well Name: Chevron et al Ft. Liard k-29
Well Number: k-29

