

NATIONAL ENERGY BOARD  
SEP 18 1998

**Anderson Oil & Gas**  
Flow & Build-Up  
Columbia et al Kotaneelee  
B-38  
Jul 31, 98 to Aug 14, 98

**Service Company Contact Info**

<b>Report Writer</b>	<b>Wade Nicks, (403) 309 7940</b>	<b>Service Company</b>	<b>Lee Tool, Div. of Schlumberger</b>
<b>Operator</b>	<b>Keith Jerram, (403) 778-2361</b>	<b>Job ID</b>	<b>Test Date</b>
		<b>b-38ext</b>	<b>Jul 31, 98 to Aug 14, 98</b>

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

# Flow & Build-Up

Anderson Oil & Gas  
Alberta, Canada

Jul 31, 98 to Aug 14, 98

Columbia et al Kotaneelee

B-38

Kotaneelee, Nahanni

Well			
Client Anderson Oil & Gas		Province Alberta	Country Canada
Well Name Columbia et al Kotaneelee		Deviated Well	Well Status Gas
Well No. B-38		KB Elevation 685.80 m	CF Elevation 678.18 m
Field Kotaneelee	Pool Nahanni	Pool Datum	

Test						
Test Type Flow & Build-Up			Atmospheric 101.30 KPa A			
Test Start (mm/dd/yy) 07/31/98 06:50 PM		Test Finish 08/14/98 01:59 PM		Casing ID Tubing ID 114.00 mm		
On Bottom 07/31/98 07:30 PM		Off Bottom 08/14/98 01:07 PM		C. Pres. Before T. Pres. Before		
Shut In		ETO 07/31/98 06:50 PM		C. Pres. After T. Pres. After		
	Meas. Depth [mCF]	TVD [mCF]	Est. Pressure [KPa G]	Est. Gradient [KPa/m]	Est. Temperature [DegC]	Grad. Threshold
Well Datum						Grad. Recorder
Run Depth						
Log. MPP Depth	3615.55	3615.55				
Operator Keith Jerrin, (403) 778-2361			Service Company Lee Tool, Div. of Schlumberger			
Remarks 9439Q-16E Bot. Rec. & 9443Q-16E Top Rec.						

Depth Reference	Offset [m]	Elevation [mMSL]
Casing Flange (CF)		678.18
Kelly Bushing (KB)	CF + 7.62	685.80

Part Top MD, [mCF]	Part Bottom MD, [mCF]	MPP TVD, [mCF]	Pressure	Gradient
3548.20	3682.90	3615.55		

Tool	Serial	Tool	Serial
LMR-3000S	9443Q-16E	LMR-3000S	9439Q-16E
Latest Calibration 09/C2/97	Max. Rated Temp. 174.81 DegC	Latest Calibration 04/07/97	Max. Rated Temp. 174.87 DegC
	Max. Rated Press. 110211.61 KPa G		Max. Rated Press. 110212.85 KPa G

# Tool Summary

Anderson Oil & Gas  
Alberta, Canada

Jul 31, 98 to Aug 14, 98

Columbia et al Kotaneelee

B-38

Kotaneelee, Nahanni

Top Recorder			
Tool	Serial	Latest Calibration	Battery Serial
LMR-3000S	9443Q-16E	09/02/97	
Landed Depth	Depth Offset	Min. Battery	
3462.50 mCF	-1.50 m	19.51 V	

Program: 60 extended for 2 mag													
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	10:00	1			600	0.2%	0.0022	600		0.2%	0.0022	10:00	
HB	60	15			345600	98.9%	10.6596	79349		22.7%	2.4474	13 18:37:15	
HB	10 20:00:00	1:00:00			260	0.1%	1.8204						
<b>Totals:</b>	<b>70 20:10:00</b>				<b>346460</b>	<b>99.1%</b>	<b>12.4822</b>	<b>79949</b>		<b>22.9%</b>	<b>2.4496</b>	<b>13 18:47:15</b>	

Bottom Recorder			
Tool	Serial	Latest Calibration	Battery Serial
LMR-3000S	9439Q-16E	04/07/97	
Landed Depth	Depth Offset	Min. Battery	
3464.00 mCF	0.00 m	0.19 V	

Program: 70 extended for 2 mag													
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	10:00	1			600	0.2%	0.0022	600		0.2%	0.0022	10:00	
HB	60	15			345600	98.9%	10.6596	79437		22.7%	2.4501	13 18:59:15	
HB	10 20:00:00	1:00:00			260	0.1%	1.8204						
<b>Totals:</b>	<b>70 20:10:00</b>				<b>346460</b>	<b>99.1%</b>	<b>12.4822</b>	<b>80037</b>		<b>22.9%</b>	<b>2.4523</b>	<b>13 19:09:15</b>	

# Calibration Summary

Anderson Oil & Gas  
Alberta, Canada

Jul 31, 98 to Aug 14, 98

Columbia et al Kotaneelee

B-38

Kofaneelee, Nahanni

## Top Recorder

Tool	Serial	Latest Calibration	Battery Serial
LMR-3000S	9443Q-16E	09/02/97	
Landed Depth	Depth Offset	Min. Battery	
3462.50 mCF	-1.50 m	19.51 V	

## Equations

FP = Pres Freq (Hz)  
FT = Temp Freq (Hz)

$XP = 1.851800e+004 + (1.000000e-002) FP$   
 $XT = 4.611100e+004 + (1.000000e-002) FT$

$P_0 = 2.059114e+001 + (-1.891523e+000) XT + (-2.068952e-002) XT^2 + (-1.877394e-009) XT^3 + (-1.282565e-008) XT^4$   
 $P_1 = 3.941981e+001 + (-1.818589e-002) XT + (3.788039e-005) XT^2 + (4.003915e-008) XT^3 + (1.883408e-010) XT^4$   
 $P_2 = -1.748073e-003 + (4.228293e-006) XT + (-9.690971e-008) XT^2 + (-3.878803e-010) XT^3 + (-9.383290e-013) XT^4$   
 $P_3 = 7.427707e-007 + (5.391538e-009) XT + (1.325242e-010) XT^2 + (6.734918e-013) XT^3 + (1.441967e-015) XT^4$

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

$T_0 = 2.504443e+001$   
 $T_1 = -7.395523e-001$   
 $T_2 = -7.943451e-004$   
 $T_3 = -4.126639e-007$

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

## Bottom Recorder

Tool	Serial	Latest Calibration	Battery Serial
LMR-3000S	9439Q-16E	04/07/97	
Landed Depth	Depth Offset	Min. Battery	
3464.00 mCF	0.00 m	0.19 V	

## Equations

FP = Pres Freq (Hz)  
FT = Temp Freq (Hz)

$XP = 1.905600e+004 + (1.000000e-002) FP$   
 $XT = 4.644200e+004 + (1.000000e-002) FT$

$P_0 = 1.947230e+001 + (-1.284789e+000) XT + (-1.967952e-002) XT^2 + (1.545657e-006) XT^3 + (-1.038808e-008) XT^4$   
 $P_1 = 3.881820e+001 + (-1.875078e-002) XT + (3.043262e-005) XT^2 + (-1.113635e-009) XT^3 + (9.295245e-011) XT^4$   
 $P_2 = -1.648883e-003 + (7.886722e-006) XT + (-5.197166e-008) XT^2 + (-1.255041e-010) XT^3 + (-3.571987e-013) XT^4$   
 $P_3 = 5.357154e-007 + (-2.942823e-010) XT + (5.456702e-011) XT^2 + (2.019616e-013) XT^3 + (4.189778e-016) XT^4$

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

$T_0 = 2.512915e+001$   
 $T_1 = -7.301272e-001$   
 $T_2 = -7.657045e-004$   
 $T_3 = -3.780208e-007$

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

# Recorded Data

Anderson Oil & Gas  
Alberta, Canada

Jul 31, 98 to Aug 14, 98

Columbia et al Kotaneelee

B-38

Kotaneelee, Nahanni

Data							
9439Q-16E		9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	
Real Time (mm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
Jul 31, 98 18:50:00	00:00:00	36.900	30.945	5.954	28.01	26.78	
18:52:00	00:02:00	36.938	30.153	6.785	28.03	26.86	9439Q-16E Bottom Recorder
18:54:00	00:04:00	36.915	29.909	7.006	28.03	27.08	9443Q-16E Top Recorder
19:24:00	00:34:00	23336.187	23347.591	-11.404	57.21	55.76	
19:30:00	00:40:00	24963.682	24984.441	-20.759	83.77	81.39	On Bottom
20:00:00	01:10:00	27081.549	27069.430	12.119	152.45	152.17	
20:30:00	01:40:00	27102.258	27083.892	8.366	153.79	153.71	
21:00:00	02:10:00	27102.223	27094.635	7.589	153.92	153.82	
21:30:00	02:40:00	27101.094	27093.873	7.221	153.98	153.86	
22:00:00	03:10:00	27100.184	27093.224	6.961	154.01	153.89	
22:30:00	03:40:00	27099.188	27092.404	6.784	154.01	153.90	
23:00:00	04:10:00	27098.478	27091.816	6.662	154.02	153.91	
23:30:00	04:40:00	27098.144	27091.536	6.607	154.02	153.91	
Aug 01, 98 00:00:00	05:10:00	27097.810	27091.334	6.476	154.02	153.91	
00:30:00	05:40:00	27097.650	27091.257	6.393	154.03	153.92	
01:00:00	06:10:00	27097.505	27091.073	6.432	154.03	153.92	
01:30:00	06:40:00	27097.392	27090.966	6.426	154.03	153.92	
02:00:00	07:10:00	27097.312	27090.966	6.346	154.03	153.92	
02:30:00	07:40:00	27097.295	27090.966	6.299	154.03	153.92	
03:00:00	08:10:00	27097.185	27090.889	6.296	154.03	153.92	
03:30:00	08:40:00	27097.185	27090.889	6.296	154.03	153.92	
04:00:00	09:10:00	27097.138	27090.889	6.249	154.03	153.92	
04:30:00	09:40:00	27097.171	27090.812	6.359	154.03	153.92	
05:00:00	10:10:00	27097.171	27090.859	6.312	154.03	153.92	
05:30:00	10:40:00	27097.091	27090.859	6.232	154.03	153.92	
06:00:00	11:10:00	27097.091	27090.955	6.136	154.03	153.92	
06:30:00	11:40:00	27097.171	27090.878	6.293	154.03	153.92	
07:00:00	12:10:00	27097.171	27090.848	6.323	154.03	153.93	
07:30:00	12:40:00	27097.218	27090.896	6.322	154.03	153.93	
08:00:00	13:10:00	27097.525	27091.221	6.305	154.07	153.95	
08:30:00	13:40:00	27097.507	27091.360	6.147	154.10	153.96	
09:00:00	14:10:00	27097.831	27091.436	6.395	154.08	153.95	
09:30:00	14:40:00	27097.732	27091.423	6.309	154.06	153.94	
10:00:00	15:10:00	27097.019	27091.416	6.202	154.05	153.94	
10:30:00	15:40:00	27097.656	27091.398	6.258	154.04	153.94	
11:00:00	16:10:00	27097.675	27091.428	6.247	154.04	153.94	
11:30:00	16:40:00	27097.708	27091.398	6.309	154.04	153.94	
12:00:00	17:10:00	27097.708	27091.446	6.262	154.04	153.94	
12:30:00	17:40:00	27097.661	27091.369	6.292	154.04	153.94	
13:00:00	18:10:00	27097.722	27091.434	6.287	154.04	153.94	
13:30:00	18:40:00	27097.675	27091.405	6.270	154.04	153.94	
14:00:00	19:10:00	27097.675	27091.423	6.252	154.04	153.94	
14:30:00	19:40:00	27097.642	27091.411	6.231	154.04	153.95	
15:00:00	20:10:00	27097.736	27091.429	6.307	154.04	153.95	
15:30:00	20:40:00	27097.703	27091.370	6.333	154.04	153.95	
16:00:00	21:10:00	27097.717	27091.465	6.252	154.05	153.95	
16:30:00	21:40:00	27097.684	27091.359	6.326	154.05	153.95	
17:00:00	22:10:00	27097.652	27091.442	6.209	154.05	153.95	
17:30:00	22:40:00	27097.699	27091.335	6.363	154.05	153.96	

**Data**

9439Q-16E		9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	
Real Time (mmm dd.yy 24 hr)	Elapsed Time (HHH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press Diff (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
	18:00:00	23:10:00	27097.760	27091.401	6.359	154.05	153.96
	18:30:00	23:40:00	27097.727	27091.342	6.385	154.05	153.96
	19:00:00	24:10:00	27097.694	27091.360	6.334	154.05	153.96
	19:30:00	24:40:00	27097.628	27091.396	6.232	154.05	153.96
	20:00:00	25:10:00	27097.675	27091.337	6.339	154.05	153.96
	20:30:00	25:40:00	27097.689	27091.325	6.364	154.05	153.97
	21:00:00	26:10:00	27097.704	27091.391	6.313	154.06	153.97
	21:30:00	26:40:00	27097.685	27091.332	6.353	154.06	153.97
	22:00:00	27:10:00	27097.746	27091.368	6.379	154.06	153.97
	22:30:00	27:40:00	27097.760	27091.356	6.404	154.06	153.97
	23:00:00	28:10:00	27097.727	27091.344	6.383	154.06	153.98
	23:30:00	28:40:00	27097.662	27091.362	6.299	154.06	153.98
Aug 02, 98	00:00:00	29:10:00	27097.723	27091.303	6.420	154.06	153.98
	00:30:00	29:40:00	27097.737	27091.244	6.493	154.07	153.98
	01:00:00	30:10:00	27097.624	27091.280	6.344	154.07	153.98
	01:30:00	30:40:00	27097.699	27091.268	6.431	154.07	153.99
	02:00:00	31:10:00	27097.619	27091.209	6.411	154.07	153.99
	02:30:00	31:40:00	27097.539	27091.149	6.390	154.07	153.99
	03:00:00	32:10:00	27097.553	27091.090	6.463	154.07	153.99
	03:30:00	32:40:00	27097.535	27091.126	6.409	154.08	154.00
	04:00:00	33:10:00	27097.502	27091.067	6.435	154.08	154.00
	04:30:00	33:40:00	27097.483	27091.103	6.380	154.08	154.00
	05:00:00	34:10:00	27097.450	27091.073	6.377	154.08	154.00
	05:30:00	34:40:00	27097.558	27090.984	6.574	154.08	154.01
	06:00:00	35:10:00	27097.445	27091.068	6.378	154.08	154.01
	06:30:00	35:40:00	27097.507	27091.008	6.498	154.08	154.01
	07:00:00	36:10:00	27097.468	27091.074	6.414	154.09	154.01
	07:30:00	36:40:00	27097.422	27090.985	6.437	154.09	154.01
	08:00:00	37:10:00	27097.436	27091.003	6.433	154.09	154.02
	08:30:00	37:40:00	27097.497	27091.039	6.458	154.09	154.02
	09:00:00	38:10:00	27097.431	27090.950	6.482	154.09	154.02
	09:30:00	38:40:00	27097.445	27090.890	6.555	154.09	154.02
	10:00:00	39:10:00	27097.427	27090.878	6.548	154.10	154.03
	10:30:00	39:40:00	27097.361	27090.867	6.494	154.10	154.03
	11:00:00	40:10:00	27097.375	27090.803	6.472	154.10	154.03
	11:30:00	40:40:00	27097.356	27090.891	6.465	154.10	154.03
	12:00:00	41:10:00	27097.417	27090.879	6.538	154.10	154.03
	12:30:00	41:40:00	27097.351	27090.790	6.561	154.11	154.04
	13:00:00	42:10:00	27097.332	27090.808	6.524	154.11	154.04
	13:30:00	42:40:00	27097.346	27090.844	6.503	154.11	154.04
	14:00:00	43:10:00	27097.247	27090.784	6.463	154.11	154.04
	14:30:00	43:40:00	27097.309	27090.820	6.489	154.11	154.05
	15:00:00	44:10:00	27097.290	27090.883	6.607	154.12	154.05
	15:30:00	44:40:00	27097.271	27090.767	6.504	154.12	154.05
	16:00:00	45:10:00	27097.252	27090.755	6.497	154.12	154.05
	16:30:00	45:40:00	27097.290	27090.666	6.614	154.12	154.06
	17:00:00	46:10:00	27097.214	27090.606	6.608	154.12	154.06
	17:30:00	46:40:00	27097.242	27090.594	6.648	154.13	154.06
	18:00:00	47:10:00	27097.223	27090.678	6.546	154.13	154.06
	18:30:00	47:40:00	27097.204	27090.618	6.586	154.13	154.07
	19:00:00	48:10:00	27097.152	27090.577	6.576	154.13	154.07
	19:30:00	48:40:00	27097.167	27090.565	6.602	154.14	154.07
	20:00:00	49:10:00	27097.195	27090.601	6.594	154.14	154.07
	20:30:00	49:40:00	27097.176	27090.511	6.664	154.14	154.08
	21:00:00	50:10:00	27097.204	27090.529	6.675	154.14	154.08
	21:30:00	50:40:00	27097.185	27090.488	6.697	154.14	154.08
	22:00:00	51:10:00	27097.133	27090.523	6.610	154.15	154.08
	22:30:00	51:40:00	27097.157	27090.434	6.713	154.15	154.09

## Data

	9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	
	Real Time (mmm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff (KPa)	Temperature (DegC)	Temperature (DegC)
	23:00:00	52:10:00	27097.128	27090.470	6.658	154.15	154.09
	23:30:00	52:40:00	27097.076	27090.458	6.618	154.15	154.09
Aug 03, 98	00:00:00	53:10:00	27097.137	27090.321	6.816	154.16	154.09
	00:30:00	53:40:00	27097.118	27090.404	6.714	154.16	154.10
	01:00:00	54:10:00	27097.099	27090.345	6.755	154.16	154.10
	01:30:00	54:40:00	27097.047	27090.380	6.667	154.16	154.10
	02:00:00	55:10:00	27097.028	27090.339	6.660	154.17	154.10
	02:30:00	55:40:00	27097.069	27090.374	6.715	154.17	154.11
	03:00:00	56:10:00	27097.037	27090.362	6.675	154.17	154.11
	03:30:00	56:40:00	27097.018	27090.350	6.668	154.17	154.11
	04:00:00	57:10:00	27097.046	27090.261	6.785	154.17	154.12
	04:30:00	57:40:00	27096.994	27090.297	6.697	154.18	154.12
	05:00:00	58:10:00	27096.975	27090.207	6.768	154.18	154.12
	05:30:00	58:40:00	27097.050	27090.243	6.807	154.18	154.12
	06:00:00	59:10:00	27097.031	27090.231	6.800	154.18	154.13
	06:30:00	59:40:00	27096.932	27090.286	6.665	154.19	154.13
	07:00:00	60:10:00	27096.990	27090.177	6.763	154.19	154.13
	07:30:00	60:40:00	27096.894	27090.183	6.711	154.19	154.13
	08:00:00	61:10:00	27096.969	27090.123	6.846	154.19	154.14
	08:30:00	61:40:00	27096.903	27090.159	6.744	154.20	154.14
	09:00:00	62:10:00	27096.884	27090.089	6.814	154.20	154.14
	09:30:00	62:40:00	27096.911	27090.105	6.807	154.20	154.14
	10:00:00	63:10:00	27096.892	27090.093	6.800	154.20	154.15
	10:30:00	63:40:00	27096.920	27090.128	6.792	154.21	154.15
	11:00:00	64:10:00	27096.821	27090.086	6.735	154.21	154.15
	11:30:00	64:40:00	27096.849	27090.074	6.775	154.21	154.15
	12:00:00	65:10:00	27096.924	27090.032	6.892	154.21	154.16
	12:30:00	65:40:00	27096.905	27099.973	6.932	154.22	154.16
	13:00:00	66:10:00	27096.839	27090.056	6.783	154.22	154.16
	13:30:00	66:40:00	27096.834	27099.966	6.867	154.22	154.17
	14:00:00	67:10:00	27096.861	27090.002	6.860	154.22	154.17
	14:30:00	67:40:00	27096.782	27099.980	6.802	154.23	154.17
	15:00:00	68:10:00	27096.870	27099.948	6.922	154.23	154.17
	15:30:00	68:40:00	27096.771	27099.906	6.865	154.23	154.18
	16:00:00	69:10:00	27096.799	27099.864	6.805	154.23	154.18
	16:30:00	69:40:00	27096.794	27099.929	6.864	154.24	154.18
	17:00:00	70:10:00	27126.814	27121.190	7.624	154.62	154.72
	17:30:00	70:40:00	27119.004	27113.778	5.226	154.57	154.49
	18:00:00	71:10:00	26951.540	26999.441	52.100	154.60	154.45
	18:30:00	71:40:00	26173.179	26147.537	25.642	158.06	158.02
	19:00:00	72:10:00	27097.446	27096.652	0.794	158.39	158.28
	19:30:00	72:40:00	26945.136	26991.054	54.061	157.04	156.96
	20:00:00	73:10:00	26328.673	26304.522	24.151	159.16	159.08
	20:30:00	73:40:00	26369.000	26359.371	9.629	159.94	159.88
	21:00:00	74:10:00	26365.035	26371.252	13.783	160.09	160.02
	21:30:00	74:40:00	26387.340	26373.354	13.985	160.20	160.14
	22:00:00	75:10:00	26388.147	26374.727	13.420	160.33	160.27
	22:30:00	75:40:00	26369.303	26375.668	13.636	160.41	160.34
	23:00:00	76:10:00	26390.750	26377.699	13.051	160.49	160.42
	23:30:00	76:40:00	26393.559	26380.148	13.410	160.58	160.52
Aug 04, 98	00:00:00	77:10:00	26394.182	26381.183	12.999	160.66	160.60
	00:30:00	77:40:00	26395.597	26382.819	12.778	160.74	160.67
	01:00:00	78:10:00	26398.396	26385.199	13.188	160.80	160.74
	01:30:00	78:40:00	26400.107	26386.625	13.282	160.86	160.80
	02:00:00	79:10:00	26397.297	26384.596	12.701	160.96	160.89
	02:30:00	79:40:00	26396.864	26384.526	12.337	161.01	160.94
	03:00:00	80:10:00	26397.608	26384.771	12.837	161.07	161.01
	03:30:00	80:40:00	26395.218	26382.154	13.063	161.10	161.04

**Data**

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	Comments
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HHH.MM.SS)	Pressure (KPa G)	Pressure (KPa G)	Press Diff (KPa)	Temperature (DegC)	Temperature (DegC)
04:00:00	81:10:00	26396.933	26383.793	13.140	161.14	161.08
04:30:00	81:40:00	26395.202	26382.292	12.911	161.17	161.11
05:00:00	82:10:00	26397.266	26384.113	13.153	161.22	161.16
05:30:00	82:40:00	26396.231	26383.470	12.761	161.26	161.19
06:00:00	83:10:00	26396.806	26383.953	12.853	161.30	161.24
06:30:00	83:40:00	26395.627	26383.570	12.057	161.33	161.26
07:00:00	84:10:00	26397.218	26384.466	12.752	161.36	161.29
07:30:00	84:40:00	26397.645	26384.525	13.120	161.39	161.33
08:00:00	85:10:00	26396.273	26383.030	13.243	161.42	161.35
08:30:00	85:40:00	26398.732	26385.773	12.960	161.45	161.38
09:00:00	86:10:00	26398.787	26385.659	13.128	161.48	161.42
09:30:00	86:40:00	26399.366	26386.092	13.274	161.51	161.45
10:00:00	87:10:00	26397.231	26384.178	13.053	161.51	161.45
10:30:00	87:40:00	26398.366	26385.486	12.880	161.55	161.48
11:00:00	88:10:00	26398.740	26385.265	13.474	161.57	161.50
11:30:00	88:40:00	26398.477	26385.448	13.029	161.59	161.52
12:00:00	89:10:00	26398.452	26385.099	13.353	161.60	161.54
12:30:00	89:40:00	26398.141	26384.991	13.150	161.62	161.56
13:00:00	90:10:00	26398.262	26385.035	13.227	161.64	161.58
13:30:00	90:40:00	26399.034	26386.061	12.973	161.66	161.59
14:00:00	91:10:00	26993.141	26972.898	20.243	161.74	161.60
14:30:00	91:40:00	26142.459	26118.991	25.468	160.83	160.78
15:00:00	92:10:00	26077.199	26059.999	17.201	161.43	161.37
15:30:00	92:40:00	26059.635	26042.148	17.488	161.58	161.51
16:00:00	93:10:00	26053.625	26035.970	17.655	161.68	161.61
16:30:00	93:40:00	26044.360	26026.510	17.871	161.74	161.67
17:00:00	94:10:00	26038.811	26019.871	18.940	161.77	161.71
17:30:00	94:40:00	26035.047	26017.120	17.927	161.80	161.74
18:00:00	95:10:00	26031.196	26012.416	18.780	161.82	161.76
18:30:00	95:40:00	26029.891	26009.926	19.965	161.85	161.78
19:00:00	96:10:00	26027.561	26008.925	18.636	161.87	161.80
19:30:00	96:40:00	26026.705	26007.834	18.871	161.88	161.82
20:00:00	97:10:00	26025.032	26005.660	19.373	161.90	161.83
20:30:00	97:40:00	26024.036	26005.431	18.606	161.92	161.85
21:00:00	98:10:00	26023.043	26004.490	18.552	161.94	161.87
21:30:00	98:40:00	26022.129	26003.412	18.717	161.95	161.88
22:00:00	99:10:00	26022.690	26004.321	18.369	161.96	161.90
22:30:00	99:40:00	26022.500	26003.649	18.850	161.98	161.91
23:00:00	100:10:00	26021.910	26003.047	18.863	161.99	161.92
23:30:00	100:40:00	26020.840	26001.835	18.805	162.01	161.95
Aug 05, 98 00:00:00	101:10:00	26019.862	26000.845	19.016	162.03	161.96
00:30:00	101:40:00	26019.417	26000.864	18.554	162.04	161.97
01:00:00	102:10:00	26018.478	25999.164	19.314	162.04	161.98
01:30:00	102:40:00	26018.552	25999.990	18.562	162.05	161.99
02:00:00	103:10:00	26019.052	26000.430	18.623	162.06	161.99
02:30:00	103:40:00	26019.171	26000.621	18.350	162.07	162.00
03:00:00	104:10:00	26019.796	26001.025	18.741	162.08	162.01
03:30:00	104:40:00	26021.072	26002.266	18.805	162.09	162.02
04:00:00	105:10:00	26019.402	26001.348	18.054	162.09	162.02
04:30:00	105:40:00	26020.284	26001.449	18.834	162.09	162.03
05:00:00	106:10:00	26020.369	26002.220	18.179	162.10	162.03
05:30:00	106:40:00	26019.263	26000.887	18.376	162.10	162.04
06:00:00	107:10:00	26019.328	26000.830	18.498	162.11	162.04
06:30:00	107:40:00	26019.544	26001.027	18.517	162.12	162.05
07:00:00	108:10:00	26019.556	26001.447	18.109	162.12	162.06
07:30:00	108:40:00	26019.698	26001.856	18.040	162.13	162.06
08:00:00	109:10:00	26020.392	26002.224	18.168	162.13	162.07
08:30:00	109:40:00	26021.408	26003.319	18.088	162.14	162.07



## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
09:00:00	110:10:00	26022.182	26003.780	18.402	162.14	162.08	
09:30:00	110:40:00	26023.299	26005.041	18.258	162.15	162.08	
10:00:00	111:10:00	26023.257	26004.909	18.348	162.15	162.09	
10:30:00	111:40:00	26024.559	26006.578	17.981	162.16	162.09	
11:00:00	112:10:00	26025.232	26006.987	18.345	162.16	162.09	
11:30:00	112:40:00	26025.530	26007.493	18.037	162.17	162.10	
12:00:00	113:10:00	26025.631	26007.596	18.034	162.17	162.10	
12:30:00	113:40:00	26026.023	26007.822	18.201	162.17	162.10	
13:00:00	114:10:00	26026.127	26007.793	18.334	162.17	162.11	
13:30:00	114:40:00	26025.709	26007.813	17.896	162.18	162.11	
14:00:00	115:10:00	26983.738	26977.855	5.882	161.76	161.64	
14:30:00	115:40:00	26151.276	26120.674	30.602	161.49	161.45	
15:00:00	116:10:00	26028.866	26010.007	18.859	162.15	162.07	
15:30:00	116:40:00	26026.907	26008.847	18.060	162.18	162.11	
16:00:00	117:10:00	25550.405	25514.736	35.668	161.44	161.40	
16:30:00	117:40:00	25276.742	25241.824	34.917	161.52	161.46	
17:00:00	118:10:00	25168.205	25135.631	32.573	161.78	161.71	
17:30:00	118:40:00	25127.779	25093.473	34.306	161.90	161.82	
18:00:00	119:10:00	25103.500	25070.807	32.693	161.94	161.86	
18:30:00	119:40:00	25220.596	25194.465	26.131	162.14	162.06	
19:00:00	120:10:00	25239.832	25212.917	26.915	162.07	162.00	
19:30:00	120:40:00	25241.747	25209.317	32.430	162.08	162.01	
20:00:00	121:10:00	25237.506	25211.177	26.329	162.08	162.00	
20:30:00	121:40:00	25235.600	25211.284	24.316	162.09	162.00	
21:00:00	122:10:00	25234.741	25210.661	24.080	162.09	162.01	
21:30:00	122:40:00	25234.124	25211.826	22.297	162.09	162.01	
22:00:00	123:10:00	25238.422	25210.998	27.424	162.09	162.02	
22:30:00	123:40:00	25238.131	25209.311	28.820	162.09	162.02	
23:00:00	124:10:00	25238.718	25208.874	29.844	162.10	162.03	
23:30:00	124:40:00	25238.717	25209.261	29.456	162.10	162.03	
Aug 08, 98 00:00:00	125:10:00	25235.823	25208.541	29.282	162.11	162.03	
00:30:00	125:40:00	25236.776	25212.042	24.734	162.11	162.03	
01:00:00	126:10:00	25240.072	25211.730	28.343	162.11	162.04	
01:30:00	126:40:00	25239.936	25210.450	29.486	162.12	162.04	
02:00:00	127:10:00	25240.228	25212.201	28.028	162.12	162.04	
02:30:00	127:40:00	25242.762	25214.300	28.462	162.12	162.05	
03:00:00	128:10:00	25244.959	25216.529	28.430	162.12	162.05	
03:30:00	128:40:00	25246.774	25219.247	27.527	162.12	162.05	
04:00:00	129:10:00	25248.212	25221.476	26.735	162.13	162.05	
04:30:00	129:40:00	25251.268	25223.479	27.788	162.13	162.06	
05:00:00	130:10:00	25252.085	25224.607	27.478	162.13	162.06	
05:30:00	130:40:00	25254.139	25227.078	27.061	162.14	162.06	
06:00:00	131:10:00	25255.573	25229.119	26.455	162.14	162.06	
06:30:00	131:40:00	25257.628	25230.821	26.807	162.14	162.07	
07:00:00	132:10:00	25259.254	25232.712	26.542	162.14	162.07	
07:30:00	132:40:00	25261.117	25234.269	26.848	162.14	162.07	
08:00:00	133:10:00	25262.552	25235.778	26.773	162.15	162.07	
08:30:00	133:40:00	25263.318	25236.562	26.756	162.15	162.07	
09:00:00	134:10:00	25264.514	25237.056	27.458	162.15	162.08	
09:30:00	134:40:00	25265.758	25239.435	26.323	162.15	162.08	
10:00:00	135:10:00	25266.811	25239.929	26.882	162.15	162.08	
10:30:00	135:40:00	25267.385	25240.176	27.209	162.15	162.08	
11:00:00	136:10:00	25268.249	25240.869	27.380	162.16	162.08	
11:30:00	136:40:00	25268.680	25241.260	27.419	162.16	162.08	
12:00:00	137:10:00	25268.875	25242.286	26.589	162.16	162.09	
12:30:00	137:40:00	25269.691	25242.984	26.707	162.17	162.09	
13:00:00	138:10:00	25269.792	25243.241	26.551	162.17	162.09	
13:30:00	138:40:00	25270.798	25244.417	26.382	162.17	162.10	

## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E		
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HHH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
14:00:00	139:10:00	25271.470	25244.572	26.897	162.17	162.10	
14:30:00	139:40:00	25271.281	25244.921	26.361	162.18	162.10	
15:00:00	140:10:00	25271.809	25244.840	26.970	162.18	162.11	
15:30:00	140:40:00	25271.818	25244.285	27.533	162.19	162.11	
16:00:00	141:10:00	25271.439	25244.832	26.607	162.19	162.11	
16:30:00	141:40:00	25271.490	25244.886	26.604	162.19	162.12	
17:00:00	142:10:00	25271.586	25244.703	26.884	162.19	162.12	
17:30:00	142:40:00	25270.920	25244.273	26.647	162.19	162.12	
18:00:00	143:10:00	25271.304	25244.761	26.543	162.19	162.12	
18:30:00	143:40:00	25272.071	25245.303	26.767	162.20	162.12	
19:00:00	144:10:00	25272.502	25245.362	27.140	162.20	162.12	
19:30:00	144:40:00	25271.455	25244.932	26.523	162.20	162.13	
20:00:00	145:10:00	25271.026	25244.749	26.278	162.20	162.13	
20:30:00	145:40:00	25271.078	25244.232	26.846	162.20	162.13	
21:00:00	146:10:00	25271.229	25244.446	26.783	162.21	162.13	
21:30:00	146:40:00	25271.615	25245.042	26.573	162.21	162.14	
22:00:00	147:10:00	25271.330	25244.907	26.423	162.21	162.14	
22:30:00	147:40:00	25270.569	25243.848	26.721	162.22	162.14	
23:00:00	148:10:00	25270.330	25243.751	26.579	162.22	162.14	
23:30:00	148:40:00	25270.379	25243.907	26.473	162.22	162.14	
Aug 07, 98 00:00:00	149:10:00	25270.191	25243.428	26.763	162.22	162.14	
00:30:00	149:40:00	25269.238	25243.148	26.090	162.22	162.15	
01:00:00	150:10:00	25269.431	25242.476	26.955	162.22	162.15	
01:30:00	150:40:00	25269.290	25242.095	27.195	162.22	162.15	
02:00:00	151:10:00	25269.148	25242.492	26.656	162.22	162.15	
02:30:00	151:40:00	25268.482	25241.873	26.609	162.23	162.15	
03:00:00	152:10:00	25268.246	25241.395	26.852	162.23	162.15	
03:30:00	152:40:00	25267.818	25241.303	26.515	162.23	162.16	
04:00:00	153:10:00	25267.724	25240.873	26.851	162.23	162.16	
04:30:00	153:40:00	25267.489	25240.846	26.643	162.23	162.16	
05:00:00	154:10:00	25266.105	25239.437	26.668	162.23	162.16	
05:30:00	154:40:00	25265.630	25238.867	26.763	162.24	162.16	
06:00:00	155:10:00	25264.964	25238.346	26.618	162.24	162.16	
06:30:00	155:40:00	25264.728	25238.157	26.570	162.24	162.16	
07:00:00	156:10:00	25264.633	25238.071	26.563	162.24	162.17	
07:30:00	156:40:00	25264.254	25237.931	26.324	162.24	162.17	
08:00:00	157:10:00	25263.875	25237.457	26.418	162.24	162.17	
08:30:00	157:40:00	25264.115	25238.935	27.180	162.25	162.17	
09:00:00	158:10:00	25243.373	25216.080	27.283	162.22	162.15	
09:30:00	158:40:00	25240.473	25213.621	26.852	162.23	162.16	
10:00:00	159:10:00	25238.666	25211.035	27.631	162.24	162.17	
10:30:00	159:40:00	25237.764	25210.571	27.193	162.24	162.17	
11:00:00	160:10:00	25237.863	25210.489	27.374	162.25	162.17	
11:30:00	160:40:00	25237.341	25210.257	27.083	162.25	162.18	
12:00:00	161:10:00	25237.497	25210.171	27.316	162.25	162.18	
12:30:00	161:40:00	25237.012	25209.939	27.073	162.25	162.18	
13:00:00	162:10:00	25236.297	25209.504	26.793	162.25	162.18	
13:30:00	162:40:00	25236.251	25208.638	27.612	162.26	162.18	
14:00:00	163:10:00	25236.399	25208.808	27.591	162.26	162.19	
14:30:00	163:40:00	25235.829	25208.383	27.446	162.26	162.19	
15:00:00	164:10:00	25235.830	25209.012	26.818	162.26	162.19	
15:30:00	164:40:00	25236.071	25208.877	27.195	162.27	162.19	
16:00:00	165:10:00	25235.929	25209.123	26.806	162.27	162.19	
16:30:00	165:40:00	25236.503	25209.418	27.085	162.27	162.19	
17:00:00	166:10:00	25238.511	25212.528	25.982	162.27	162.20	
17:30:00	166:40:00	25259.370	25233.057	26.313	162.31	162.23	
18:00:00	167:10:00	25257.199	25229.979	27.220	162.29	162.22	
18:30:00	167:40:00	25257.288	25229.761	27.528	162.28	162.21	

## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	Comments	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HHH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	
	19:00:00	168:10:00	25257.144	25230.046	27.098	162.28	162.21
	19:30:00	168:40:00	25257.481	25230.346	27.135	162.28	162.21
	20:00:00	169:10:00	25258.630	25232.048	26.582	162.29	162.21
	20:30:00	169:40:00	25259.251	25232.150	27.101	162.29	162.21
	21:00:00	170:10:00	25259.302	25232.402	26.900	162.29	162.22
	21:30:00	170:40:00	25259.541	25232.552	26.989	162.29	162.22
	22:00:00	171:10:00	25259.972	25233.186	26.786	162.29	162.22
	22:30:00	171:40:00	25260.452	25233.582	26.869	162.29	162.22
	23:00:00	172:10:00	25260.453	25233.394	27.059	162.30	162.22
	23:30:00	172:40:00	25260.263	25233.641	26.623	162.30	162.22
Aug 08, 98	00:00:00	173:10:00	25260.552	25233.506	27.047	162.30	162.23
	00:30:00	173:40:00	25260.746	25234.144	26.602	162.30	162.23
	01:00:00	174:10:00	25260.890	25234.149	26.741	162.30	162.23
	01:30:00	174:40:00	25260.416	25234.154	26.261	162.30	162.23
	02:00:00	175:10:00	25260.465	25233.681	26.784	162.30	162.23
	02:30:00	175:40:00	25260.897	25233.207	27.690	162.31	162.23
	03:00:00	176:10:00	25260.613	25233.695	26.917	162.31	162.23
	03:30:00	176:40:00	25260.279	25233.410	26.868	162.31	162.24
	04:00:00	177:10:00	25260.090	25233.275	26.815	162.31	162.24
	04:30:00	177:40:00	25260.761	25233.624	27.138	162.31	162.24
	05:00:00	178:10:00	25260.237	25233.000	27.237	162.31	162.24
	05:30:00	178:40:00	25260.000	25232.521	27.479	162.32	162.24
	06:00:00	179:10:00	25260.145	25233.015	27.131	162.32	162.24
	06:30:00	179:40:00	25260.005	25232.734	27.270	162.32	162.25
	07:00:00	180:10:00	25259.959	25233.368	26.591	162.32	162.25
	07:30:00	180:40:00	25259.291	25232.406	26.885	162.32	162.25
	08:00:00	181:10:00	25259.007	25232.416	26.591	162.32	162.25
	08:30:00	181:40:00	25259.583	25232.517	27.065	162.33	162.25
	09:00:00	182:10:00	25259.822	25233.108	26.715	162.33	162.25
	09:30:00	182:40:00	25259.920	25232.924	26.996	162.33	162.26
	10:00:00	183:10:00	25260.304	25233.654	26.649	162.33	162.26
	10:30:00	183:40:00	25260.688	25233.568	27.120	162.33	162.26
	11:00:00	184:10:00	25260.309	25233.142	27.166	162.33	162.26
	11:30:00	184:40:00	25260.261	25232.852	27.409	162.33	162.26
	12:00:00	185:10:00	25259.594	25232.712	26.882	162.34	162.26
	12:30:00	185:40:00	25259.405	25232.620	26.785	162.34	162.26
	13:00:00	186:10:00	25259.693	25232.581	27.111	162.34	162.27
	13:30:00	186:40:00	25259.695	25232.204	27.491	162.34	162.27
	14:00:00	187:10:00	25259.362	25232.596	26.766	162.34	162.27
	14:30:00	187:40:00	25259.890	25232.800	27.090	162.34	162.27
	15:00:00	188:10:00	25260.035	25232.756	27.279	162.35	162.27
	15:30:00	188:40:00	25259.942	25233.061	26.881	162.35	162.28
	16:00:00	189:10:00	25259.563	25233.018	26.545	162.35	162.28
	16:30:00	189:40:00	25258.990	25231.910	27.080	162.35	162.28
	17:00:00	190:10:00	25259.182	25231.915	27.267	162.35	162.28
	17:30:00	190:40:00	25259.089	25231.973	27.116	162.35	162.28
	18:00:00	191:10:00	25258.948	25232.176	26.772	162.36	162.28
	18:30:00	191:40:00	25258.949	25231.891	27.058	162.36	162.28
	19:00:00	192:10:00	25258.855	25231.412	27.443	162.36	162.29
	19:30:00	192:40:00	25258.714	25231.326	27.389	162.36	162.29
	20:00:00	193:10:00	25258.668	25231.524	27.144	162.36	162.29
	20:30:00	193:40:00	25258.527	25231.050	27.477	162.36	162.29
	21:00:00	194:10:00	25257.669	25230.861	26.807	162.36	162.29
	21:30:00	194:40:00	25257.382	25230.571	26.811	162.36	162.29
	22:00:00	195:10:00	25257.192	25229.996	27.197	162.37	162.29
	22:30:00	195:40:00	25257.337	25229.807	27.530	162.37	162.29
	23:00:00	196:10:00	25257.005	25229.817	27.188	162.37	162.30
	23:30:00	196:40:00	25257.006	25229.367	27.620	162.37	162.30

## Data

9439Q-16E		9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	Comments
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press Diff (KPa)	Temperature (DegC)	Temperature (DegC)	
Aug 09, 98	00:00:00	197:10:00	25256.721	25229.343	27.378	162.37	162.30
	00:30:00	197:40:00	25257.200	25229.348	27.852	162.37	162.30
	01:00:00	198:10:00	25256.581	25229.486	27.083	162.37	162.30
	01:30:00	198:40:00	25256.582	25229.309	27.273	162.38	162.30
	02:00:00	199:10:00	25256.345	25229.077	27.268	162.38	162.30
	02:30:00	199:40:00	25256.920	25229.082	27.838	162.38	162.30
	03:00:00	200:10:00	25256.013	25229.082	26.931	162.38	162.30
	03:30:00	200:40:00	25256.111	25228.753	27.357	162.38	162.31
	04:00:00	201:10:00	25256.206	25228.710	27.496	162.38	162.31
	04:30:00	201:40:00	25256.018	25228.908	27.109	162.38	162.31
	05:00:00	202:10:00	25256.019	25228.531	27.488	162.38	162.31
	05:30:00	202:40:00	25256.306	25228.439	27.867	162.38	162.31
	06:00:00	203:10:00	25255.735	25228.492	27.242	162.39	162.31
	06:30:00	203:40:00	25255.258	25227.960	27.298	162.39	162.31
	07:00:00	204:10:00	25255.402	25227.820	27.582	162.39	162.31
	07:30:00	204:40:00	25254.544	25227.873	26.671	162.39	162.32
	08:00:00	205:10:00	25254.689	25227.201	27.488	162.39	162.32
	08:30:00	205:40:00	25255.072	25227.162	27.910	162.39	162.32
	09:00:00	206:10:00	25254.930	25227.602	27.327	162.39	162.32
	09:30:00	206:40:00	25255.363	25228.193	27.170	162.40	162.32
	10:00:00	207:10:00	25256.080	25228.202	27.878	162.40	162.32
	10:30:00	207:40:00	25255.509	25228.347	27.161	162.40	162.32
	11:00:00	208:10:00	25255.891	25228.202	27.688	162.40	162.32
	11:30:00	208:40:00	25255.078	25227.438	27.649	162.40	162.32
	12:00:00	209:10:00	25254.364	25226.563	27.801	162.40	162.33
	12:30:00	209:40:00	25253.936	25226.621	27.316	162.40	162.33
	13:00:00	210:10:00	25254.415	25226.920	27.494	162.40	162.33
	13:30:00	210:40:00	25254.417	25226.833	27.584	162.40	162.33
	14:00:00	211:10:00	26538.488	26598.031	-59.543	162.91	162.80
	14:30:00	211:40:00	25634.657	25680.773	53.884	162.14	162.08
	15:00:00	212:10:00	25411.378	25383.203	28.175	162.54	162.47
	15:30:00	212:40:00	25378.349	25352.085	26.284	162.59	162.52
	16:00:00	213:10:00	25362.049	25335.156	26.893	162.54	162.46
	16:30:00	213:40:00	25295.459	25268.613	28.846	162.43	162.36
	17:00:00	214:10:00	25282.595	25254.482	28.113	162.45	162.38
	17:30:00	214:40:00	25280.071	25252.576	27.495	162.46	162.39
	18:00:00	215:10:00	25278.213	25250.031	28.181	162.46	162.39
	18:30:00	215:40:00	25276.543	25248.682	27.861	162.47	162.39
	19:00:00	216:10:00	25275.832	25248.169	27.663	162.47	162.40
	19:30:00	216:40:00	25275.882	25247.990	27.892	162.47	162.40
	20:00:00	217:10:00	25275.691	25248.377	27.314	162.47	162.40
	20:30:00	217:40:00	25275.165	25248.086	27.079	162.47	162.40
	21:00:00	218:10:00	25275.502	25247.999	27.503	162.48	162.40
	21:30:00	218:40:00	25275.454	25247.419	28.035	162.48	162.40
	22:00:00	219:10:00	25274.929	25247.414	27.515	162.48	162.40
	22:30:00	219:40:00	25274.688	25247.022	27.666	162.47	162.40
	23:00:00	220:10:00	25273.684	25246.195	27.489	162.47	162.40
	23:30:00	220:40:00	25272.823	25245.702	27.122	162.47	162.40
Aug 10, 98	00:00:00	221:10:00	25272.248	25244.826	27.422	162.47	162.40
	00:30:00	221:40:00	25272.248	25244.488	27.760	162.47	162.40
	01:00:00	222:10:00	25272.630	25244.923	27.707	162.47	162.40
	01:30:00	222:40:00	25273.633	25246.326	27.307	162.47	162.40
	02:00:00	223:10:00	25274.063	25246.766	27.297	162.47	162.40
	02:30:00	223:40:00	25273.967	25246.810	27.158	162.47	162.40
	03:00:00	224:10:00	25274.827	25246.955	27.872	162.47	162.40
	03:30:00	224:40:00	25274.444	25246.853	27.590	162.47	162.39
	04:00:00	225:10:00	25274.062	25246.611	27.450	162.47	162.39
	04:30:00	225:40:00	25274.298	25246.360	27.938	162.47	162.39

## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E		
Real Time (mm dd yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments
05:00:00	226:10:00	25273.633	25246.664	26.968	162.47	162.40	
05:30:00	226:40:00	25273.826	25246.722	27.104	162.47	162.40	
06:00:00	227:10:00	25274.112	25246.190	27.921	162.47	162.40	
06:30:00	227:40:00	25273.585	25245.896	27.689	162.47	162.40	
07:00:00	228:10:00	25273.585	25246.229	27.356	162.47	162.40	
07:30:00	228:40:00	25274.110	25246.810	27.301	162.47	162.40	
08:00:00	229:10:00	25273.681	25245.745	27.935	162.47	162.40	
08:30:00	229:40:00	25273.442	25246.036	27.406	162.47	162.40	
09:00:00	230:10:00	25273.385	25245.480	27.905	162.47	162.40	
09:30:00	230:40:00	25273.014	25245.513	27.501	162.47	162.40	
10:00:00	231:10:00	25272.728	25245.126	27.602	162.47	162.40	
10:30:00	231:40:00	25273.350	25245.615	27.735	162.47	162.40	
11:00:00	232:10:00	25273.733	25245.910	27.823	162.47	162.40	
11:30:00	232:40:00	25273.733	25246.297	27.436	162.47	162.40	
12:00:00	233:10:00	25273.733	25246.200	27.533	162.47	162.40	
12:30:00	233:40:00	25273.733	25246.587	27.146	162.47	162.40	
13:00:00	234:10:00	25274.164	25246.592	27.572	162.47	162.40	
13:30:00	234:40:00	25273.928	25246.645	27.281	162.48	162.40	
14:00:00	235:10:00	25274.021	25246.500	27.522	162.48	162.40	
14:30:00	235:40:00	25273.879	25245.876	28.004	162.48	162.40	
15:00:00	236:10:00	25273.259	25245.344	27.915	162.48	162.40	
15:30:00	236:40:00	25273.164	25245.445	27.719	162.48	162.40	
16:00:00	237:10:00	25272.878	25244.981	27.916	162.48	162.40	
16:30:00	237:40:00	25273.357	25245.309	28.048	162.48	162.41	
17:00:00	238:10:00	25273.740	25245.991	27.749	162.48	162.41	
17:30:00	238:40:00	25273.836	25246.330	27.506	162.48	162.41	
18:00:00	239:10:00	25274.076	25246.141	27.934	162.48	162.41	
18:30:00	239:40:00	25274.123	25246.093	28.030	162.48	162.41	
19:00:00	240:10:00	25273.552	25245.759	27.792	162.48	162.41	
19:30:00	240:40:00	25273.935	25246.877	27.058	162.48	162.41	
20:00:00	241:10:00	25274.079	25246.639	27.439	162.48	162.41	
20:30:00	241:40:00	25273.792	25246.494	27.298	162.48	162.41	
21:00:00	242:10:00	25274.367	25246.354	28.013	162.49	162.41	
21:30:00	242:40:00	25273.841	25246.209	27.632	162.49	162.41	
22:00:00	243:10:00	25273.128	25245.483	27.643	162.49	162.41	
22:30:00	243:40:00	25272.382	25244.714	27.648	162.49	162.41	
23:00:00	244:10:00	25272.411	25245.203	27.208	162.49	162.42	
23:30:00	244:40:00	25272.269	25244.675	27.593	162.49	162.42	
Aug 11, 98 00:00:00	245:10:00	25272.604	25244.680	27.924	162.49	162.42	
00:30:00	245:40:00	25273.228	25244.970	28.258	162.49	162.42	
01:00:00	246:10:00	25272.414	25244.346	28.068	162.49	162.42	
01:30:00	246:40:00	25271.746	25243.862	27.884	162.49	162.42	
02:00:00	247:10:00	25270.882	25243.524	27.459	162.49	162.42	
02:30:00	247:40:00	25271.652	25243.920	27.732	162.49	162.42	
03:00:00	248:10:00	25271.223	25243.828	27.395	162.49	162.42	
03:30:00	248:40:00	25270.795	25243.296	27.498	162.50	162.42	
04:00:00	249:10:00	25270.747	25243.151	27.596	162.50	162.42	
04:30:00	249:40:00	25270.289	25242.522	27.747	162.50	162.42	
05:00:00	250:10:00	25270.509	25243.011	27.499	162.50	162.42	
05:30:00	250:40:00	25270.080	25242.193	27.887	162.50	162.42	
06:00:00	251:10:00	25269.889	25241.907	27.982	162.50	162.43	
06:30:00	251:40:00	25269.843	25242.004	27.838	162.50	162.43	
07:00:00	252:10:00	25270.320	25241.912	28.408	162.50	162.43	
07:30:00	252:40:00	25269.953	25241.965	27.987	162.50	162.43	
08:00:00	253:10:00	25269.797	25242.159	27.638	162.50	162.43	
08:30:00	253:40:00	25269.798	25241.873	27.925	162.50	162.43	
09:00:00	254:10:00	25269.798	25241.636	28.162	162.50	162.43	
09:30:00	254:40:00	25269.274	25241.641	27.633	162.50	162.43	

## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	Comments
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press Diff (KPa)	Temperature (DegC)	Temperature (DegC)
10:00:00	255:10:00	25269.848	25242.275	27.573	162.50	162.43
10:30:00	255:40:00	25269.753	25241.844	27.909	162.51	162.43
11:00:00	256:10:00	25270.327	25242.381	27.947	162.51	162.43
11:30:00	256:40:00	25270.683	25242.816	27.847	162.51	162.43
12:00:00	257:10:00	25270.376	25242.236	28.141	162.51	162.43
12:30:00	257:40:00	25270.472	25242.966	27.506	162.51	162.43
13:00:00	258:10:00	25271.526	25243.750	27.776	162.51	162.44
13:30:00	258:40:00	25271.908	25244.093	27.815	162.51	162.44
14:00:00	259:10:00	25272.052	25244.340	27.712	162.51	162.44
14:30:00	259:40:00	25272.339	25244.049	28.290	162.51	162.44
15:00:00	260:10:00	25272.723	25244.784	27.938	162.51	162.44
15:30:00	260:40:00	25272.342	25244.741	27.601	162.51	162.44
16:00:00	261:10:00	25272.629	25244.547	28.082	162.52	162.44
16:30:00	261:40:00	25272.820	25245.128	27.692	162.52	162.44
17:00:00	262:10:00	25272.535	25245.816	26.918	162.52	162.44
17:30:00	262:40:00	25272.773	25244.605	28.168	162.52	162.44
18:00:00	263:10:00	25273.349	25245.142	28.207	162.52	162.45
18:30:00	263:40:00	25273.110	25245.239	27.871	162.52	162.45
19:00:00	264:10:00	25273.684	25245.345	28.339	162.52	162.45
19:30:00	264:40:00	25273.637	25245.398	28.239	162.52	162.45
20:00:00	265:10:00	25273.304	25245.543	27.761	162.52	162.45
20:30:00	265:40:00	25272.970	25244.914	28.056	162.52	162.45
21:00:00	266:10:00	25272.970	25244.677	28.292	162.52	162.45
21:30:00	266:40:00	25272.779	25244.682	28.097	162.52	162.45
22:00:00	267:10:00	25272.541	25244.682	27.859	162.52	162.45
22:30:00	267:40:00	25272.685	25244.546	28.139	162.52	162.45
23:00:00	268:10:00	25272.638	25244.788	27.850	162.53	162.45
23:30:00	268:40:00	25272.639	25244.793	27.847	162.53	162.45
Aug 12, 98 00:00:00	269:10:00	25272.783	25244.551	28.232	162.53	162.45
00:30:00	269:40:00	25272.468	25244.512	27.956	162.53	162.46
01:00:00	270:10:00	25272.585	25244.996	27.589	162.53	162.46
01:30:00	270:40:00	25272.929	25245.049	27.880	162.53	162.46
02:00:00	271:10:00	25272.834	25244.812	28.023	162.53	162.46
02:30:00	271:40:00	25272.882	25245.349	27.534	162.53	162.46
03:00:00	272:10:00	25272.836	25244.678	28.160	162.53	162.46
03:30:00	272:40:00	25272.598	25244.241	28.357	162.53	162.46
04:00:00	273:10:00	25272.647	25244.828	27.821	162.53	162.46
04:30:00	273:40:00	25272.834	25244.734	28.200	162.53	162.46
05:00:00	274:10:00	25272.600	25244.637	27.963	162.53	162.46
05:30:00	274:40:00	25272.695	25244.642	28.054	162.53	162.46
06:00:00	275:10:00	25272.840	25244.646	28.193	162.54	162.46
06:30:00	275:40:00	25273.079	25244.796	28.283	162.54	162.47
07:00:00	276:10:00	25273.176	25244.985	28.191	162.54	162.47
07:30:00	276:40:00	25272.460	25245.241	27.218	162.54	162.47
08:00:00	277:10:00	25272.986	25244.661	28.325	162.54	162.47
08:30:00	277:40:00	25273.130	25244.709	28.421	162.54	162.47
09:00:00	278:10:00	25272.701	25244.907	27.794	162.54	162.47
09:30:00	278:40:00	25272.797	25244.815	27.982	162.54	162.47
10:00:00	279:10:00	25272.990	25244.530	28.460	162.54	162.47
10:30:00	279:40:00	25272.858	25244.628	28.029	162.54	162.47
11:00:00	280:10:00	25272.846	25244.583	28.265	162.54	162.47
11:30:00	280:40:00	25272.752	25244.442	28.310	162.54	162.47
12:00:00	281:10:00	25272.849	25244.350	28.499	162.55	162.47
12:30:00	281:40:00	25272.897	25244.592	28.305	162.55	162.47
13:00:00	282:10:00	25272.611	25244.350	28.261	162.55	162.47
13:30:00	282:40:00	25272.134	25244.161	27.973	162.55	162.48
14:00:00	283:10:00	25272.182	25243.682	28.500	162.55	162.48
14:30:00	283:40:00	25272.087	25243.784	28.304	162.55	162.48

## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E	Comments	
Real Time (mmm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press. Diff (KPa)	Temperature (DegC)	Temperature (DegC)	
	15:00:00	284:10:00	25271.754	25243.740	28.014	162.55	162.48
	15:30:00	284:40:00	25271.755	25243.837	27.918	162.55	162.48
	16:00:00	285:10:00	25271.708	25243.890	27.819	162.55	162.48
	16:30:00	285:40:00	25271.662	25243.459	28.203	162.55	162.48
	17:00:00	286:10:00	25272.282	25243.948	28.335	162.55	162.48
	17:30:00	286:40:00	25272.762	25244.683	28.079	162.55	162.48
	18:00:00	287:10:00	25273.002	25245.171	27.831	162.56	162.49
	18:30:00	287:40:00	25274.437	25246.680	27.756	162.56	162.49
	19:00:00	288:10:00	25274.771	25246.777	27.994	162.56	162.49
	19:30:00	288:40:00	25275.823	25247.314	28.509	162.56	162.49
	20:00:00	288:10:00	25276.158	25247.996	28.162	162.56	162.49
	20:30:00	289:40:00	25276.780	25248.625	28.155	162.56	162.49
	21:00:00	290:10:00	25276.731	25248.818	27.913	162.56	162.49
	21:30:00	290:40:00	25277.402	25249.307	28.095	162.56	162.49
	22:00:00	291:10:00	25277.736	25249.602	28.134	162.56	162.49
	22:30:00	291:40:00	25277.689	25249.505	28.184	162.56	162.49
	23:00:00	292:10:00	25277.212	25248.881	28.331	162.56	162.49
	23:30:00	292:40:00	25277.498	25249.312	28.187	162.56	162.49
Aug 13, 98	00:00:00	293:10:00	25277.547	25249.514	28.032	162.56	162.49
	00:30:00	293:40:00	25277.596	25249.369	28.226	162.57	162.49
	01:00:00	294:10:00	25277.215	25249.277	27.937	162.57	162.49
	01:30:00	294:40:00	25277.645	25249.475	28.170	162.57	162.50
	02:00:00	295:10:00	25277.645	25249.238	28.407	162.57	162.50
	02:30:00	295:40:00	25277.646	25249.432	28.215	162.57	162.50
	03:00:00	296:10:00	25276.830	25248.658	28.272	162.57	162.50
	03:30:00	296:40:00	25276.214	25247.738	28.475	162.57	162.50
	04:00:00	297:10:00	25275.545	25247.356	28.189	162.57	162.50
	04:30:00	297:40:00	25275.068	25246.877	28.191	162.57	162.50
	05:00:00	298:10:00	25274.830	25246.441	28.389	162.57	162.50
	05:30:00	298:40:00	25274.210	25245.958	28.252	162.57	162.50
	06:00:00	299:10:00	25274.067	25245.527	28.540	162.57	162.50
	06:30:00	299:40:00	25274.211	25245.725	28.486	162.57	162.50
	07:00:00	300:10:00	25274.116	25245.972	28.144	162.57	162.50
	07:30:00	300:40:00	25273.592	25245.343	28.249	162.57	162.50
	08:00:00	301:10:00	25273.496	25245.541	27.955	162.57	162.50
	08:30:00	301:40:00	25273.592	25245.154	28.439	162.58	162.50
	09:00:00	302:10:00	25273.211	25245.110	28.101	162.58	162.50
	09:30:00	302:40:00	25274.024	25245.502	28.523	162.58	162.51
	10:00:00	303:10:00	25273.882	25245.458	28.424	162.58	162.51
	10:30:00	303:40:00	25273.882	25245.559	28.322	162.58	162.51
	11:00:00	304:10:00	25274.361	25245.709	28.651	162.58	162.51
	11:30:00	304:40:00	25274.123	25245.661	28.462	162.58	162.51
	12:00:00	305:10:00	25274.171	25245.864	28.308	162.58	162.51
	12:30:00	305:40:00	25274.315	25245.815	28.499	162.58	162.51
	13:00:00	306:10:00	25274.268	25246.299	27.969	162.58	162.51
	13:30:00	306:40:00	25273.981	25245.864	28.118	162.58	162.51
	14:00:00	307:10:00	25274.079	25245.825	28.254	162.58	162.51
	14:30:00	307:40:00	25274.413	25245.631	28.782	162.58	162.51
	15:00:00	308:10:00	25274.271	25245.878	28.393	162.59	162.51
	15:30:00	308:40:00	25274.701	25246.216	28.484	162.59	162.51
	16:00:00	309:10:00	25274.797	25246.560	28.237	162.59	162.52
	16:30:00	309:40:00	25275.037	25246.710	28.327	162.59	162.52
	17:00:00	310:10:00	25275.037	25247.101	27.936	162.59	162.52
	17:30:00	310:40:00	25275.754	25247.537	28.218	162.59	162.52
	18:00:00	311:10:00	25276.327	25247.977	28.351	162.59	162.52
	18:30:00	311:40:00	25276.711	25248.320	28.391	162.59	162.52
	19:00:00	312:10:00	25277.619	25249.002	28.617	162.59	162.52
	19:30:00	312:40:00	25277.477	25249.147	28.329	162.59	162.52

## Data

9439Q-16E	9439Q-16E	9443Q-16E	9439Q-16E vs 9443Q-16E	9439Q-16E	9443Q-16E			
Real Time (mm dd,yy 24 hr)	Elapsed Time (HH:MM:SS)	Pressure (KPa G)	Pressure (KPa G)	Press Diff. (KPa)	Temperature (DegC)	Temperature (DegC)	Comments	
	20:00:00	313:10:00	25278.088	25249.442	28.656	162.59	162.52	
	20:30:00	313:40:00	25279.102	25250.705	28.367	162.59	162.52	
	21:00:00	314:10:00	25280.106	25251.193	28.913	162.60	162.52	
	21:30:00	314:40:00	25280.202	25251.677	28.525	162.60	162.52	
	22:00:00	315:10:00	25280.203	25252.408	27.795	162.60	162.52	
	22:30:00	315:40:00	25281.062	25252.601	28.461	162.60	162.52	
	23:00:00	316:10:00	25281.064	25253.143	27.922	162.60	162.53	
	23:30:00	316:40:00	25281.876	25252.949	28.927	162.60	162.53	
Aug 14, 98	00:00:00	317:10:00	25281.494	25253.099	28.395	162.60	162.53	
	00:30:00	317:40:00	25281.686	25253.244	28.442	162.60	162.53	
	01:00:00	318:10:00	25281.783	25253.399	28.384	162.60	162.53	
	01:30:00	318:40:00	25281.593	25253.060	28.533	162.60	162.53	
	02:00:00	319:10:00	25281.927	25253.302	28.625	162.60	162.53	
	02:30:00	319:40:00	25281.879	25253.403	28.476	162.60	162.53	
	03:00:00	320:10:00	25282.262	25253.500	28.762	162.60	162.53	
	03:30:00	320:40:00	25282.167	25253.746	28.420	162.60	162.53	
	04:00:00	321:10:00	25281.786	25253.505	28.281	162.60	162.53	
	04:30:00	321:40:00	25281.595	25253.456	28.138	162.60	162.53	
	05:00:00	322:10:00	25281.738	25253.505	28.233	162.60	162.53	
	05:30:00	322:40:00	25282.025	25253.122	28.903	162.60	162.53	
	06:00:00	323:10:00	25281.979	25253.756	28.223	162.61	162.53	
	06:30:00	323:40:00	25282.074	25253.417	28.657	162.61	162.53	
	07:00:00	324:10:00	25281.836	25253.906	27.931	162.61	162.54	
	07:30:00	324:40:00	25281.789	25253.910	27.879	162.61	162.54	
	08:00:00	325:10:00	25282.315	25254.055	28.259	162.61	162.54	
	08:30:00	325:40:00	25282.602	25253.963	28.639	162.61	162.54	
	09:00:00	326:10:00	25282.363	25253.721	28.642	162.61	162.54	
	09:30:00	326:40:00	25282.316	25253.726	28.590	162.61	162.54	
	10:00:00	327:10:00	25282.173	25253.731	28.443	162.61	162.54	
	10:30:00	327:40:00	25281.887	25253.629	28.258	162.61	162.54	
	11:00:00	328:10:00	25282.222	25253.634	28.588	162.61	162.54	
	11:30:00	328:40:00	25281.888	25253.155	28.733	162.61	162.54	
	12:00:00	329:10:00	28776.204	28771.477	4.727	162.38	162.20	
	12:30:00	329:40:00	28815.212	28804.299	10.913	161.39	161.21	
	13:00:00	330:10:00	28834.706	28825.703	9.004	160.92	160.73	
	13:07:00	330:17:00	28838.414	28829.352	9.062	160.83	160.63	Off Bottom
	13:37:00	330:47:00	23086.378			122.83		



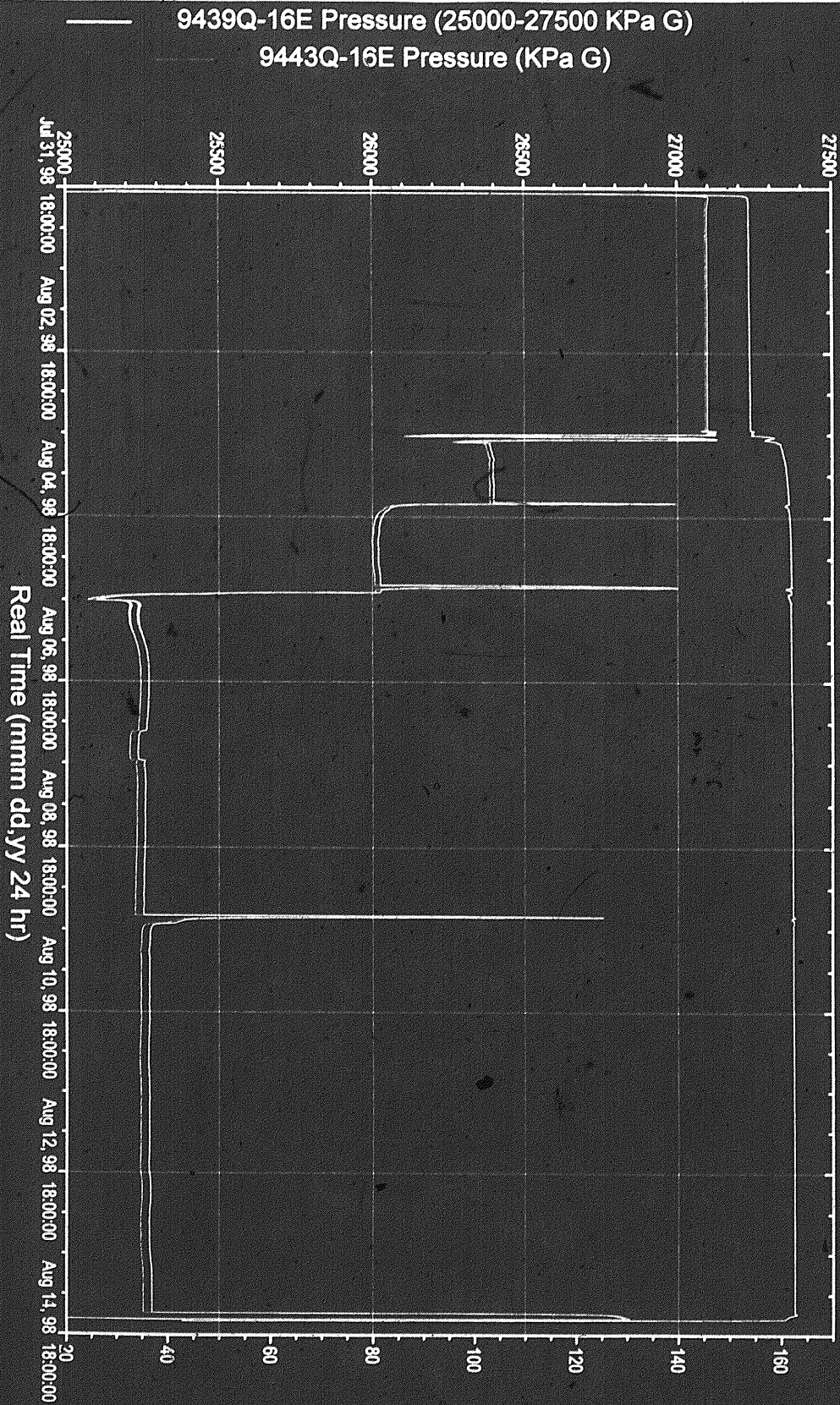
# Pressure & Temperature vs. Real Time

Company:  
Client:  
Remarks:

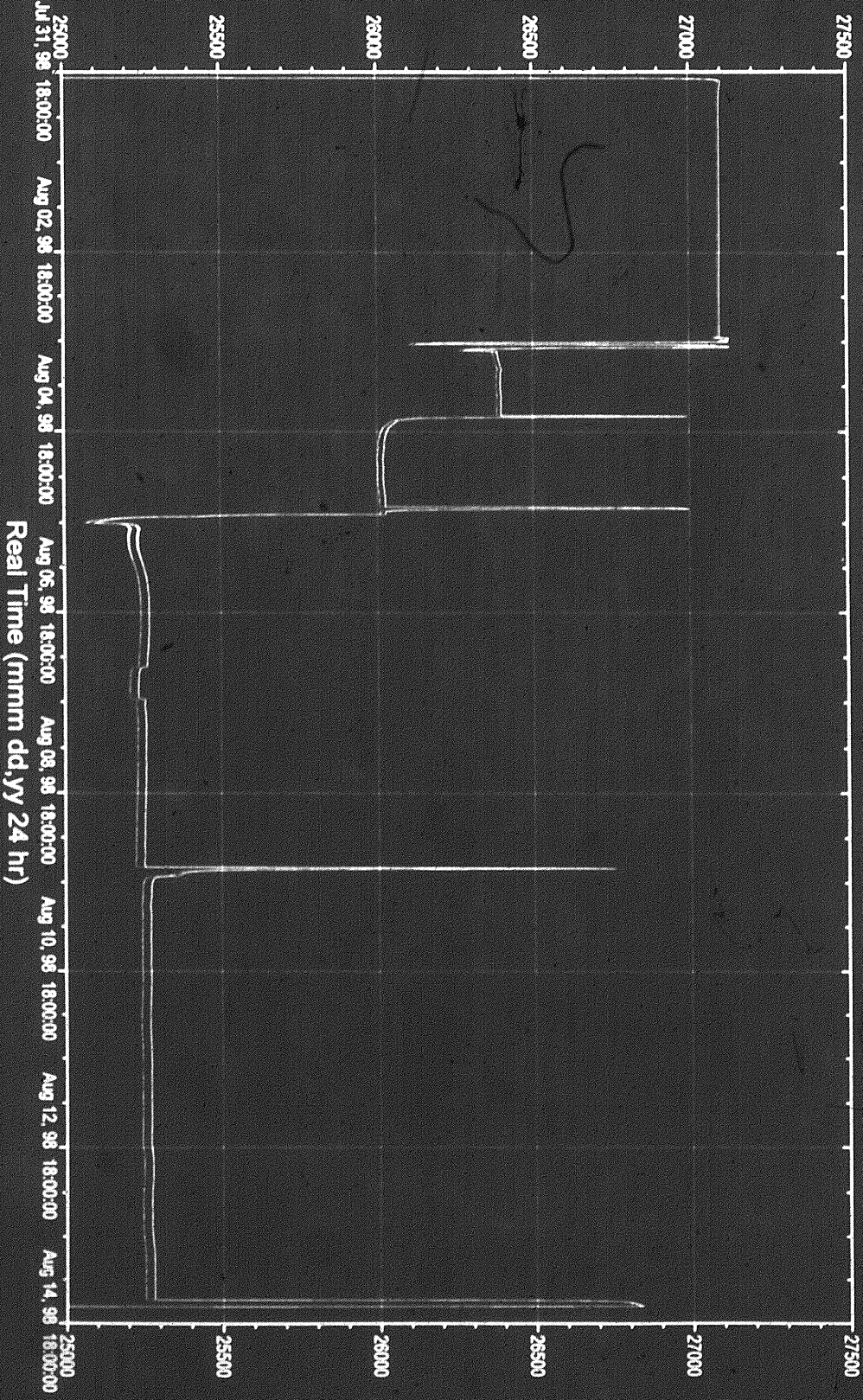
Lee Tool, Div. of Schlumberger  
Anderson Oil & Gas  
9439Q-16E Bot. Rec. & 9443Q-16E Top Rec.

Field:  
Well Name:  
Well Number:

Kotanelee  
Columbia et al Kotanelee  
B-38



9439Q-16E Pressure (KPa G)



Real Time (mmm dd,yy 24 hr)

Company: Lee Tool, Div. of Schlumberger  
Client: Anderson Oil & Gas  
Remarks: 9439Q-16E Bol. Rec. & 9443Q-16E Top Rec.

Field: Kotaneeslee  
Well Name: Columbia et al Kotaneeslee  
Well Number: B-38

Pressure vs. Real Time

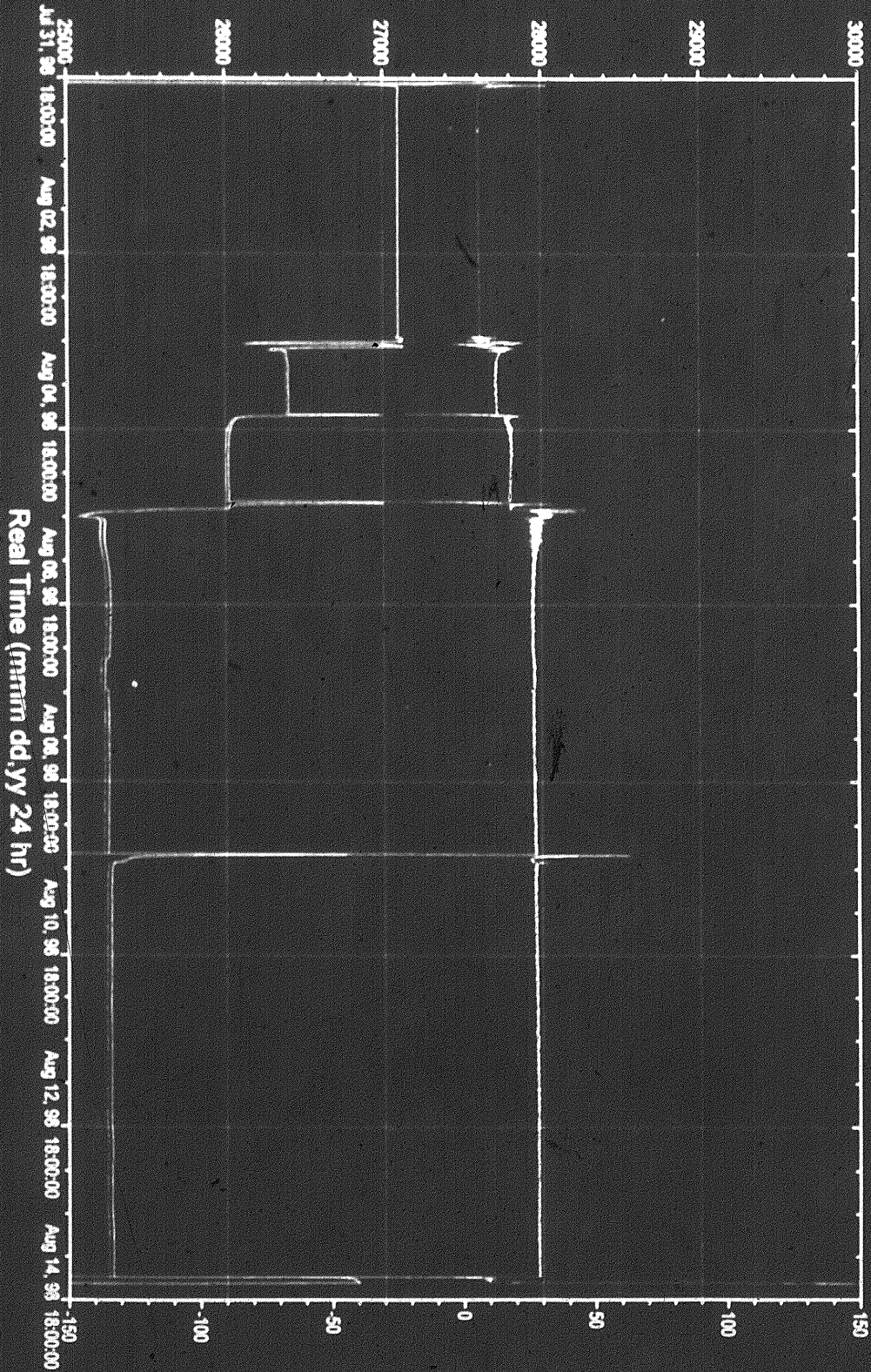
9443Q-16E Pressure (KPa G)

9439Q-16E Pressure (25000-30000 KPa G)  
 9443Q-16E Pressure (KPa G)

Pressure & Pressure Diff. vs. Real Time

Company: Lee Tool, Div. of Schlumberger  
 Client: Anderson Oil & Gas  
 Remarks: 9439Q-16E Bot. Rec. & 9443Q-16E Top Rec.

Field: Kotateelee  
 Well Name: Columbia et al Kotateelee  
 Well Number: B-38



(9439Q-16E - 9443Q-16E) Pressure Diff. (KPa)