

MLC

Pressure Test Report

COMPANY INFORMATION

Company Name	Hilcorp
Representative	Priscilla Shorty
Phone	
Fax	
Address	

NMOC D

JUN 04 2018

DISTRICT III

E-Mail Address	
Service Company	Expert Downhole Services, Inc.

WELL INFORMATION

Well Name	San Juan 30-6 Unit POW 1
Well Location	T30N, R6W, Sec 24
Field and Pool	Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	2484-3027
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	12
Casing Flange (CF)	
KB-CF	
Ground Level	6118
Plug Back Total Depth	3075
Total Depth	3080
Production Casing	5 1/2 to 3080
Production Tubing	2 3/8 to 2832

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/29/18
Dead-weight Gauge Tubing Pressure	20
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/29/18 @1300
Date / Time off Bottom	5/29/18 @1400
Probe Serial Number	W1031
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3000

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	58.5 psig
Maximum Recorded Probe Temperature	112.8 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

Company Name Hilcorp
Well Name San Juan 30-6 Unit POW 1
Type of Test POOH Static Gradient
Date(s) of Test 5/29/18



PROBE INFORMATION

Probe Serial Number W1031
Model
Pressure
 Calibrated Pressure Range
 Accuracy
 Resolution
Temperature
 Calibrated Temperature Range
 Accuracy
 Resolution
Calibration File Used for Reports

PROGRAMMING DETAILS

<u>Step</u>	<u>Sample Mode</u>	<u>Period</u>	<u>Duration</u>	<u>Comment</u>
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Program Start Time
Program End Time
Total Samples Taken
Usage for this Test
Generic Data File Name

Cor /
Name
Type of Test
Date(s) of Test

Hilcorp
San Juan 30-6 Unit POW 1
POOH Static Gradient
5/29/18



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @3063 WLM. RIH with BHP gauge to 3000 for 1 hour, then POOH making 5 minute stops per request.

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Pressure vs. Depth

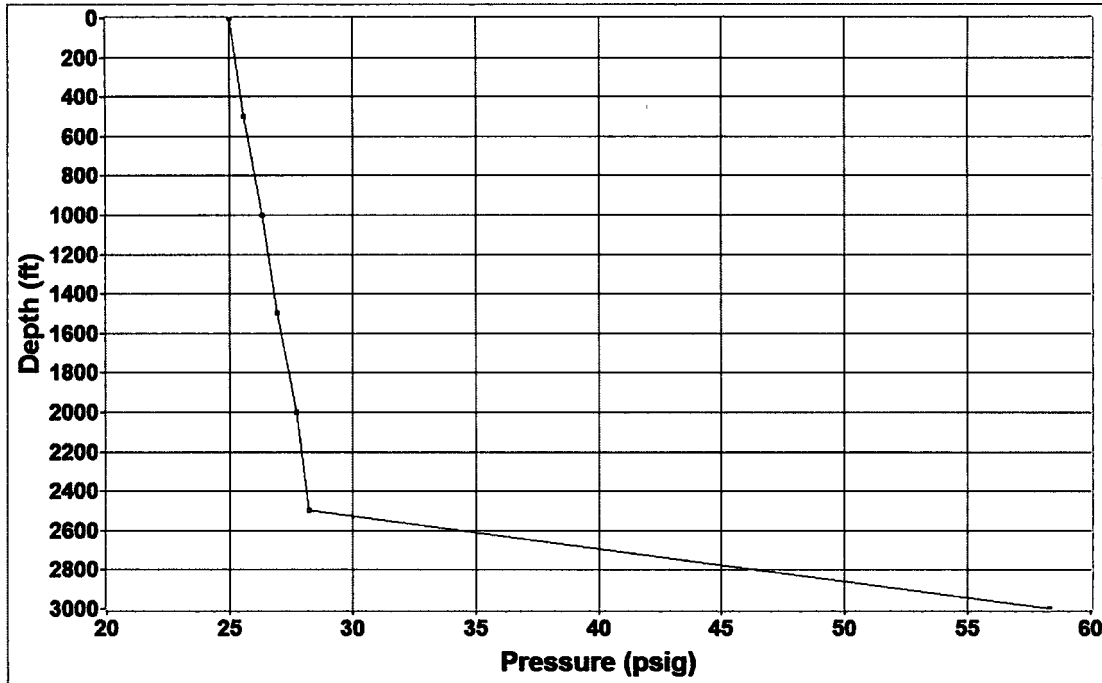
Probe Serial Number W1031

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1300	1400	3000.000	58.334	-	94.262	-
1401	1406	2500.000	28.208	0.0603	110.858	-0.0332
1407	1412	2000.000	27.704	0.0010	107.132	0.0075
1414	1419	1500.000	26.938	0.0015	101.318	0.0116
1420	1425	1000.000	26.321	0.0012	94.874	0.0129
1426	1431	500.000	25.572	0.0015	88.268	0.0132
1433	1438	0.000	24.989	0.0012	81.356	0.0138

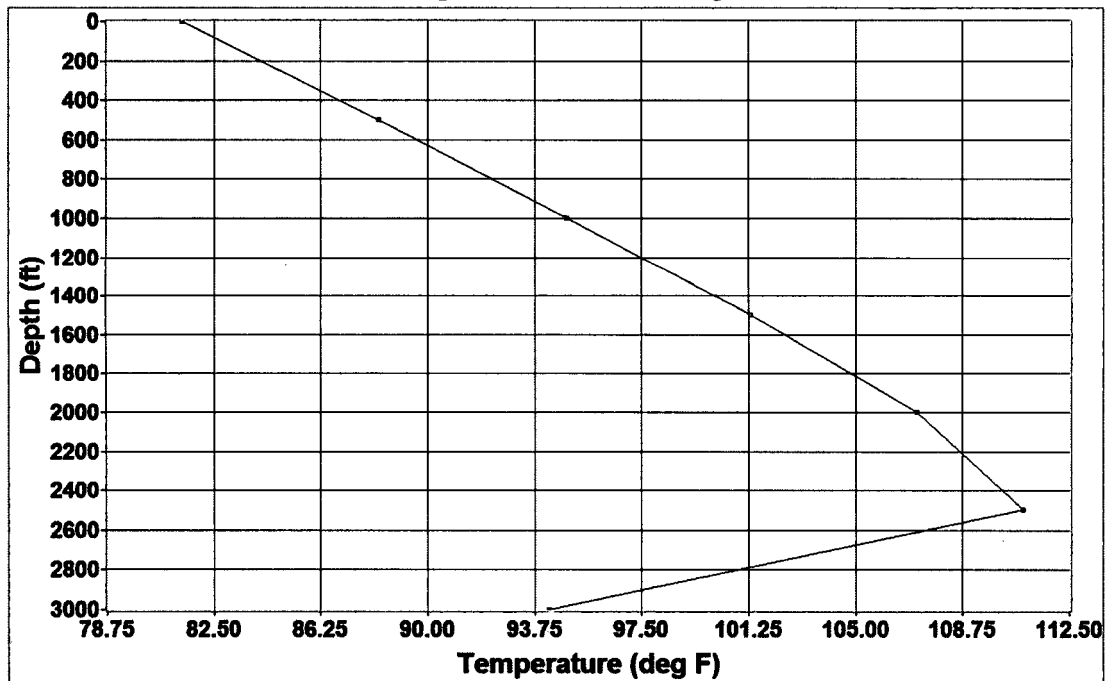
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

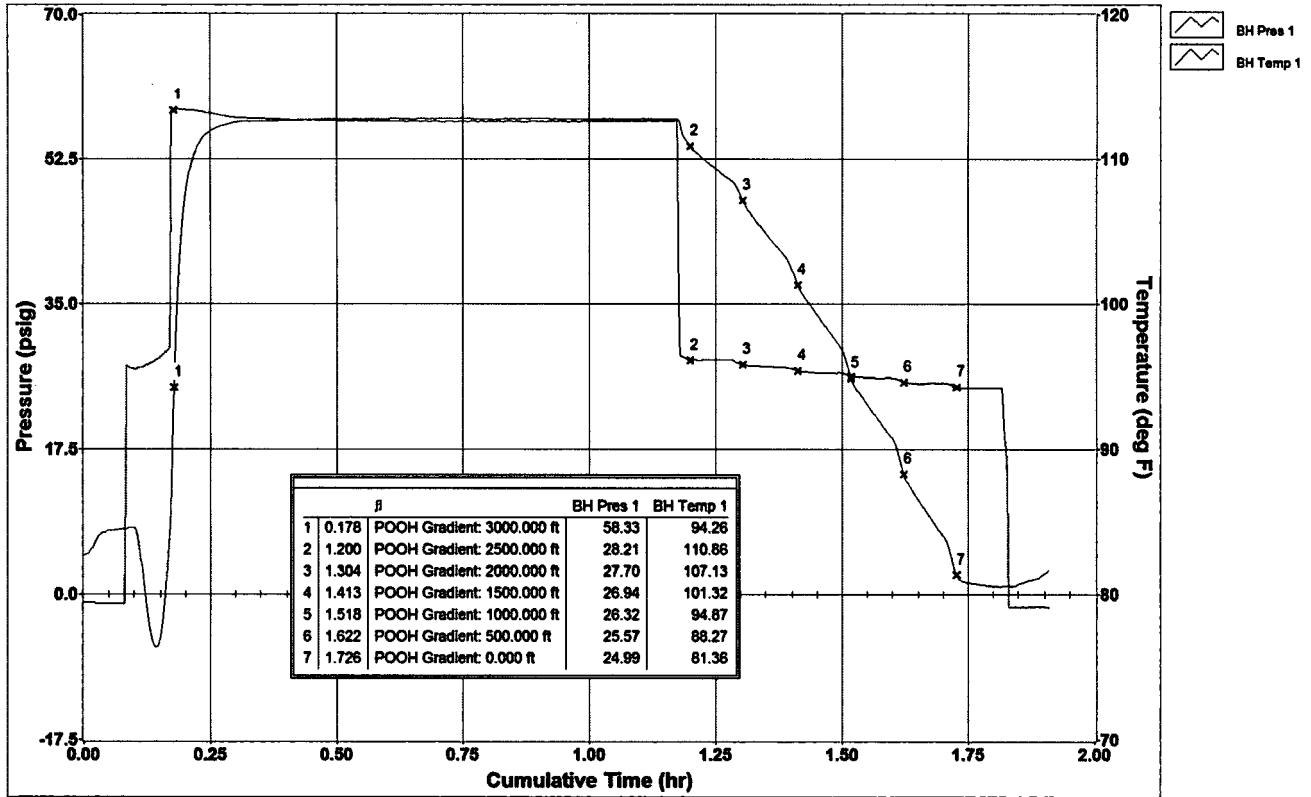
W1031 Depth vs. Pressure



W1031 Depth vs. Temperature



San Juan 30-6 POW #1



Company Name Hilcorp
Well Name San Juan 30-6 Unit POW 1
Type of Test POOH Static Gradient
Date(s) of Test 5/29/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	12:49:34	0.0000	-0.969	82.670
2018/05/29	12:50:04	0.0083	-0.957	82.832
2018/05/29	12:50:34	0.0167	-0.947	83.210
2018/05/29	12:51:04	0.0250	-1.110	83.786
2018/05/29	12:51:34	0.0333	-1.094	84.146
2018/05/29	12:52:04	0.0417	-1.092	84.254
2018/05/29	12:52:34	0.0500	-1.091	84.416
2018/05/29	12:53:04	0.0583	-1.086	84.416
2018/05/29	12:53:34	0.0667	-1.091	84.452
2018/05/29	12:54:04	0.0750	-1.094	84.470
2018/05/29	12:54:34	0.0833	27.606	84.488
2018/05/29	12:55:04	0.0917	27.254	84.596
2018/05/29	12:55:34	0.1000	27.137	84.578
2018/05/29	12:56:04	0.1083	27.235	83.588
2018/05/29	12:56:34	0.1167	27.430	81.284
2018/05/29	12:57:04	0.1250	27.670	78.926
2018/05/29	12:57:34	0.1333	27.828	77.216
2018/05/29	12:58:04	0.1417	28.265	76.406
2018/05/29	12:58:34	0.1500	28.619	76.874
2018/05/29	12:59:04	0.1583	28.958	78.980
2018/05/29	12:59:34	0.1667	29.469	82.616
2018/05/29	13:00:04	0.1750	58.185	89.708
POOH Gradient: 3000.000 ft				
2018/05/29	13:00:14	0.1778	58.334	94.262
2018/05/29	13:00:34	0.1833	58.479	99.752
2018/05/29	13:01:04	0.1917	58.357	104.450
2018/05/29	13:01:34	0.2000	58.368	107.258
2018/05/29	13:02:04	0.2083	58.363	108.986
2018/05/29	13:02:34	0.2167	58.331	110.102
2018/05/29	13:03:04	0.2250	58.250	110.822
2018/05/29	13:03:34	0.2333	58.159	111.326
2018/05/29	13:04:04	0.2417	58.053	111.668
2018/05/29	13:04:34	0.2500	57.969	111.884
2018/05/29	13:05:04	0.2583	57.885	112.046
2018/05/29	13:05:34	0.2667	57.784	112.172
2018/05/29	13:06:04	0.2750	57.689	112.280
2018/05/29	13:06:34	0.2833	57.606	112.352
2018/05/29	13:07:04	0.2917	57.535	112.442
2018/05/29	13:07:34	0.3000	57.474	112.514
2018/05/29	13:08:04	0.3083	57.447	112.568
2018/05/29	13:08:34	0.3167	57.413	112.568
2018/05/29	13:09:04	0.3250	57.394	112.568
2018/05/29	13:09:34	0.3333	57.378	112.568
2018/05/29	13:10:04	0.3417	57.355	112.604
2018/05/29	13:10:34	0.3500	57.342	112.586
2018/05/29	13:11:04	0.3583	57.320	112.586
2018/05/29	13:11:34	0.3667	57.286	112.568
2018/05/29	13:12:04	0.3750	57.258	112.568
2018/05/29	13:12:34	0.3833	57.251	112.604
2018/05/29	13:13:04	0.3917	57.232	112.622
2018/05/29	13:13:34	0.4000	57.199	112.640
2018/05/29	13:14:04	0.4083	57.154	112.658
2018/05/29	13:14:34	0.4167	57.127	112.676
2018/05/29	13:15:04	0.4250	57.103	112.676

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	13:15:34	0.4333	57.155	112.676
2018/05/29	13:16:04	0.4417	57.164	112.676
2018/05/29	13:16:34	0.4500	57.171	112.658
2018/05/29	13:17:04	0.4583	57.149	112.676
2018/05/29	13:17:34	0.4667	57.136	112.694
2018/05/29	13:18:04	0.4750	57.119	112.712
2018/05/29	13:18:34	0.4833	57.100	112.712
2018/05/29	13:19:04	0.4917	57.141	112.694
2018/05/29	13:19:34	0.5000	57.083	112.730
2018/05/29	13:20:04	0.5083	57.078	112.712
2018/05/29	13:20:34	0.5167	57.040	112.712
2018/05/29	13:21:04	0.5250	57.064	112.694
2018/05/29	13:21:34	0.5333	57.026	112.712
2018/05/29	13:22:04	0.5417	57.084	112.730
2018/05/29	13:22:34	0.5500	57.046	112.730
2018/05/29	13:23:04	0.5583	57.007	112.730
2018/05/29	13:23:34	0.5667	57.077	112.730
2018/05/29	13:24:04	0.5750	57.039	112.730
2018/05/29	13:24:34	0.5833	57.006	112.748
2018/05/29	13:25:04	0.5917	57.059	112.748
2018/05/29	13:25:34	0.6000	57.022	112.748
2018/05/29	13:26:04	0.6083	57.033	112.766
2018/05/29	13:26:34	0.6167	57.029	112.766
2018/05/29	13:27:04	0.6250	57.022	112.748
2018/05/29	13:27:34	0.6333	56.997	112.748
2018/05/29	13:28:04	0.6417	57.072	112.766
2018/05/29	13:28:34	0.6500	57.035	112.748
2018/05/29	13:29:04	0.6583	57.013	112.748
2018/05/29	13:29:34	0.6667	56.990	112.784
2018/05/29	13:30:04	0.6750	57.013	112.766
2018/05/29	13:30:34	0.6833	56.990	112.748
2018/05/29	13:31:04	0.6917	57.043	112.766
2018/05/29	13:31:34	0.7000	57.011	112.784
2018/05/29	13:32:04	0.7083	56.980	112.766
2018/05/29	13:32:34	0.7167	57.053	112.766
2018/05/29	13:33:04	0.7250	57.019	112.784
2018/05/29	13:33:34	0.7333	56.981	112.784
2018/05/29	13:34:04	0.7417	57.006	112.766
2018/05/29	13:34:34	0.7500	57.026	112.802
2018/05/29	13:35:04	0.7583	56.988	112.784
2018/05/29	13:35:34	0.7667	57.035	112.748
2018/05/29	13:36:04	0.7750	56.995	112.730
2018/05/29	13:36:34	0.7833	57.027	112.730
2018/05/29	13:37:04	0.7917	56.990	112.730
2018/05/29	13:37:34	0.8000	57.038	112.712
2018/05/29	13:38:04	0.8083	57.004	112.694
2018/05/29	13:38:34	0.8167	56.981	112.712
2018/05/29	13:39:04	0.8250	56.987	112.730
2018/05/29	13:39:34	0.8333	57.052	112.766
2018/05/29	13:40:04	0.8417	57.017	112.748
2018/05/29	13:40:34	0.8500	56.988	112.766
2018/05/29	13:41:04	0.8583	57.017	112.748
2018/05/29	13:41:34	0.8667	56.981	112.766
2018/05/29	13:42:04	0.8750	56.962	112.766

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	13:42:34	0.8833	57.029	112.748
2018/05/29	13:43:04	0.8917	57.007	112.784
2018/05/29	13:43:34	0.9000	56.991	112.784
2018/05/29	13:44:04	0.9083	57.001	112.766
2018/05/29	13:44:34	0.9167	56.977	112.766
2018/05/29	13:45:04	0.9250	57.011	112.748
2018/05/29	13:45:34	0.9333	56.987	112.748
2018/05/29	13:46:04	0.9417	57.038	112.730
2018/05/29	13:46:34	0.9500	57.013	112.730
2018/05/29	13:47:04	0.9583	56.982	112.712
2018/05/29	13:47:34	0.9667	56.998	112.730
2018/05/29	13:48:04	0.9750	57.000	112.730
2018/05/29	13:48:34	0.9833	56.981	112.730
2018/05/29	13:49:04	0.9917	57.017	112.712
2018/05/29	13:49:34	1.0000	56.995	112.730
2018/05/29	13:50:04	1.0083	57.036	112.712
2018/05/29	13:50:34	1.0167	57.017	112.730
2018/05/29	13:51:04	1.0250	56.998	112.748
2018/05/29	13:51:34	1.0333	57.027	112.748
2018/05/29	13:52:04	1.0417	57.013	112.748
2018/05/29	13:52:34	1.0500	57.035	112.748
2018/05/29	13:53:04	1.0583	57.010	112.730
2018/05/29	13:53:34	1.0667	57.043	112.712
2018/05/29	13:54:04	1.0750	57.024	112.730
2018/05/29	13:54:34	1.0833	57.075	112.748
2018/05/29	13:55:04	1.0917	57.045	112.748
2018/05/29	13:55:34	1.1000	57.023	112.730
2018/05/29	13:56:04	1.1083	57.051	112.748
2018/05/29	13:56:34	1.1167	57.093	112.766
2018/05/29	13:57:04	1.1250	57.061	112.730
2018/05/29	13:57:34	1.1333	57.039	112.712
2018/05/29	13:58:04	1.1417	57.078	112.730
2018/05/29	13:58:34	1.1500	57.049	112.730
2018/05/29	13:59:04	1.1583	57.033	112.730
2018/05/29	13:59:34	1.1667	57.001	112.712
2018/05/29	14:00:04	1.1750	53.285	112.748
2018/05/29	14:00:34	1.1833	28.636	111.758
2018/05/29	14:01:04	1.1917	28.385	111.254
POOH Gradient: 2500.000 ft				
2018/05/29	14:01:34	1.2000	28.208	110.858
2018/05/29	14:02:04	1.2083	28.256	110.516
2018/05/29	14:02:34	1.2167	28.190	110.246
2018/05/29	14:03:04	1.2250	28.219	110.012
2018/05/29	14:03:34	1.2333	28.236	109.760
2018/05/29	14:04:04	1.2417	28.245	109.526
2018/05/29	14:04:34	1.2500	28.258	109.292
2018/05/29	14:05:04	1.2583	28.265	109.094
2018/05/29	14:05:34	1.2667	28.264	108.842
2018/05/29	14:06:04	1.2750	28.269	108.644
2018/05/29	14:06:34	1.2833	28.213	108.428
2018/05/29	14:07:04	1.2917	27.933	108.050
2018/05/29	14:07:34	1.3000	27.753	107.474
POOH Gradient: 2000.000 ft				
2018/05/29	14:07:49	1.3042	27.704	107.132

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	14:08:04	1.3083	27.656	106.808
2018/05/29	14:08:34	1.3167	27.538	106.340
2018/05/29	14:09:04	1.3250	27.518	105.962
2018/05/29	14:09:34	1.3333	27.492	105.602
2018/05/29	14:10:04	1.3417	27.460	105.206
2018/05/29	14:10:34	1.3500	27.437	104.864
2018/05/29	14:11:04	1.3583	27.418	104.504
2018/05/29	14:11:34	1.3667	27.389	104.162
2018/05/29	14:12:04	1.3750	27.363	103.820
2018/05/29	14:12:34	1.3833	27.335	103.478
2018/05/29	14:13:04	1.3917	27.298	103.136
2018/05/29	14:13:34	1.4000	27.211	102.524
2018/05/29	14:14:04	1.4083	26.987	101.750
POOH Gradient: 1500.000 ft				
2018/05/29	14:14:19	1.4125	26.938	101.318
2018/05/29	14:14:34	1.4167	26.902	101.012
2018/05/29	14:15:04	1.4250	26.851	100.562
2018/05/29	14:15:34	1.4333	26.807	100.148
2018/05/29	14:16:04	1.4417	26.768	99.716
2018/05/29	14:16:34	1.4500	26.723	99.302
2018/05/29	14:17:04	1.4583	26.707	98.906
2018/05/29	14:17:34	1.4667	26.690	98.492
2018/05/29	14:18:04	1.4750	26.694	98.096
2018/05/29	14:18:34	1.4833	26.668	97.718
2018/05/29	14:19:04	1.4917	26.651	97.322
2018/05/29	14:19:34	1.5000	26.691	96.854
2018/05/29	14:20:04	1.5083	26.517	96.044
2018/05/29	14:20:34	1.5167	26.348	95.036
POOH Gradient: 1000.000 ft				
2018/05/29	14:20:39	1.5181	26.321	94.874
2018/05/29	14:21:04	1.5250	26.268	94.370
2018/05/29	14:21:34	1.5333	26.213	93.938
2018/05/29	14:22:04	1.5417	26.169	93.524
2018/05/29	14:22:34	1.5500	26.139	93.092
2018/05/29	14:23:04	1.5583	26.105	92.696
2018/05/29	14:23:34	1.5667	26.078	92.282
2018/05/29	14:24:04	1.5750	26.043	91.886
2018/05/29	14:24:34	1.5833	26.030	91.490
2018/05/29	14:25:04	1.5917	26.107	91.112
2018/05/29	14:25:34	1.6000	26.076	90.716
2018/05/29	14:26:04	1.6083	25.959	90.032
2018/05/29	14:26:34	1.6167	25.783	89.006
POOH Gradient: 500.000 ft				
2018/05/29	14:26:54	1.6222	25.572	88.268
2018/05/29	14:27:04	1.6250	25.541	87.998
2018/05/29	14:27:34	1.6333	25.501	87.476
2018/05/29	14:28:04	1.6417	25.461	87.026
2018/05/29	14:28:34	1.6500	25.428	86.576
2018/05/29	14:29:04	1.6583	25.409	86.144
2018/05/29	14:29:34	1.6667	25.505	85.694
2018/05/29	14:30:04	1.6750	25.457	85.262
2018/05/29	14:30:34	1.6833	25.509	84.848
2018/05/29	14:31:04	1.6917	25.464	84.434
2018/05/29	14:31:34	1.7000	25.518	84.020

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Date(s) of Test 5/29/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	14:32:04	1.7083	25.440	83.534
2018/05/29	14:32:34	1.7167	25.283	82.562
2018/05/29	14:33:04	1.7250	25.009	81.482
POOH Gradient: 0.000 ft				
2018/05/29	14:33:09	1.7264	24.989	81.356
2018/05/29	14:33:34	1.7333	24.954	80.996
2018/05/29	14:34:04	1.7417	24.942	80.888
2018/05/29	14:34:34	1.7500	24.932	80.816
2018/05/29	14:35:04	1.7583	24.931	80.780
2018/05/29	14:35:34	1.7667	24.932	80.726
2018/05/29	14:36:04	1.7750	24.928	80.690
2018/05/29	14:36:34	1.7833	24.925	80.654
2018/05/29	14:37:04	1.7917	24.919	80.618
2018/05/29	14:37:34	1.8000	24.919	80.582
2018/05/29	14:38:04	1.8083	24.916	80.564
2018/05/29	14:38:34	1.8167	24.916	80.564
2018/05/29	14:39:04	1.8250	16.162	80.600
2018/05/29	14:39:34	1.8333	-1.458	80.600
2018/05/29	14:40:04	1.8417	-1.474	80.618
2018/05/29	14:40:34	1.8500	-1.545	80.726
2018/05/29	14:41:04	1.8583	-1.540	80.834
2018/05/29	14:41:34	1.8667	-1.484	80.942
2018/05/29	14:42:04	1.8750	-1.503	80.996
2018/05/29	14:42:34	1.8833	-1.447	81.068
2018/05/29	14:43:04	1.8917	-1.478	81.230
2018/05/29	14:43:34	1.9000	-1.433	81.428
2018/05/29	14:44:04	1.9083	-1.513	81.662