

San Juan 31-6 Unit #229
API # 30-039-24944
BP

Pressure Test Report

COMPANY INFORMATION

Company Name ConocoPhillips
Representative Priscilla Shorty
Phone
Fax
Address

OIL CONS. DIV DIST. 3
MAY 18 2017

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

WELL INFORMATION

Well Name San Juan 31-6 Unit #229
Well Location T31N, R6W, Sec. 28
Field and Pool Fruitland Coal
Status (Oil, Gas, Water, Injection) Observation
Perforated Intervals 3218-3360
Mid-point of Perforated Intervals (MPP)
Drilling Rig Number
Elevations
Kelly Bushing (KB) 13
Casing Flange (CF)
KB-CF
Ground Level 6501
Plug Back Total Depth 3365
Total Depth 3365
Production Casing 5 1/2 to 4670
Production Tubing 2 3/8 to 3315

TEST INFORMATION

Type of Test POOH Static Gradient
Date(s) of Test 5/15/2017
Dead-weight Gauge Tubing Pressure 170
Dead-weight Gauge Casing Pressure
Shut-in Date (Duration)
Date / Time on Bottom 5/15/17 @1057
Date / Time off Bottom 5/15/17 @1157
Probe Serial Number W1036
Probe Offset from End of Tool String 0-6000
Run Depth at Probe Pressure Port 3315

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure 179.9 psig
Maximum Recorded Probe Temperature 113.9 deg F
Final Buildup Pressure
Gradient Survey Information
Extrapolated Pressure to MPP
Final Gradient at Depth
Job Number

NMOED TA Expires
5.8.2020

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Company Name ConocoPhillips
Well Name San Juan 31-6 Unit #229
Type of Test POOH Static Gradient
Date(s) of Test 5/15/2017



PROBE INFORMATION

Probe Serial Number W1036
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

Company Name	ConocoPhillips
Well Name	San Juan 31-6 Unit #229
Type of Test	POOH Static Gradient
Date(s) of Test	5/15/2017



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 Impression Block and tagged fill @3315 WLM. RIH with BHP gauge to 3313 for 1 hour, then POOH making 5 minute gradient stops as requested.

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Pressure vs. Depth

Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
		3312.000	177.225	-	113.864	-
1057	1157	3312.000	179.765	-	95.365	-
1158	1203	3000.000	175.925	0.0123	112.937	-0.0563
1204	1209	2500.000	173.955	0.0039	108.118	0.0096
1210	1215	2000.000	171.844	0.0042	100.798	0.0146
1216	1221	1500.000	169.919	0.0039	92.505	0.0166
1222	1227	1000.000	167.964	0.0039	84.213	0.0166
1227	1232	500.000	165.951	0.0040	75.553	0.0173
1234	1239	0.000	163.821	0.0043	67.356	0.0164

Extrapolated to MPP:

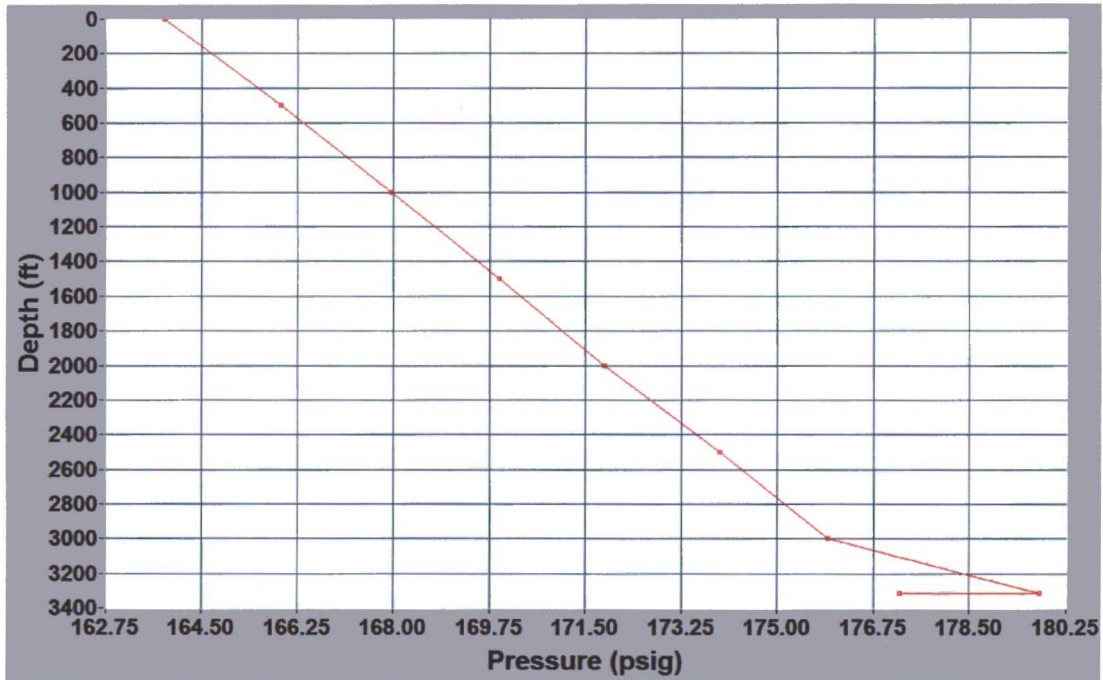
(ft)	(psig)	(deg F)
0.000		

Company Name ConocoPhillips
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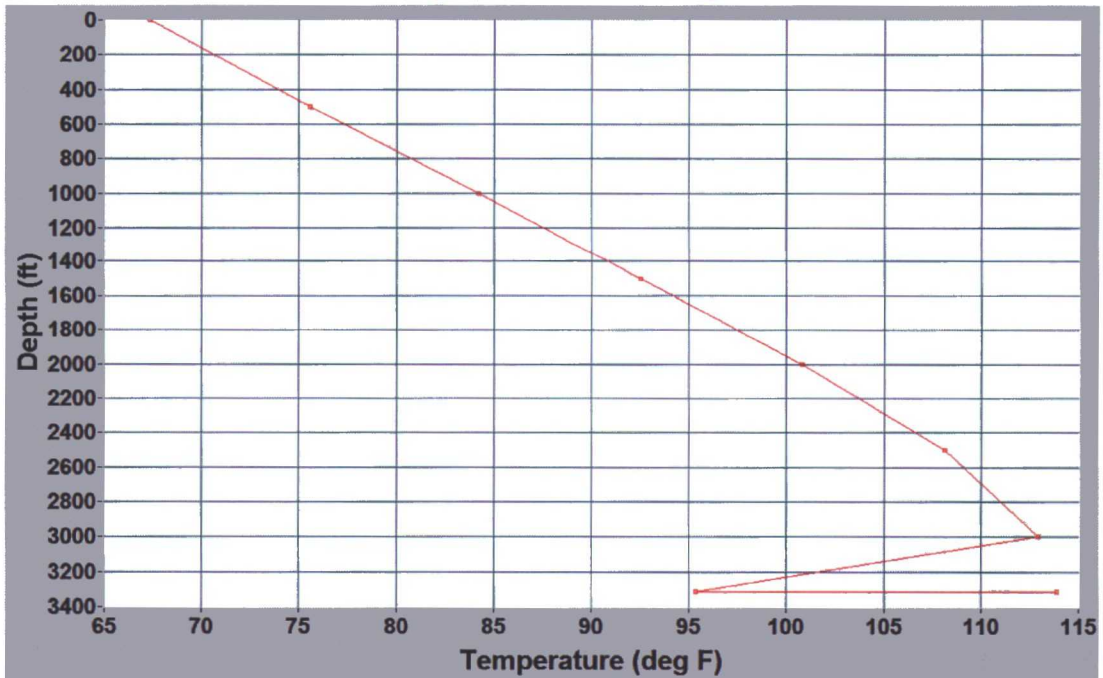


Probe Serial Number W1036

W1036 Depth vs. Pressure



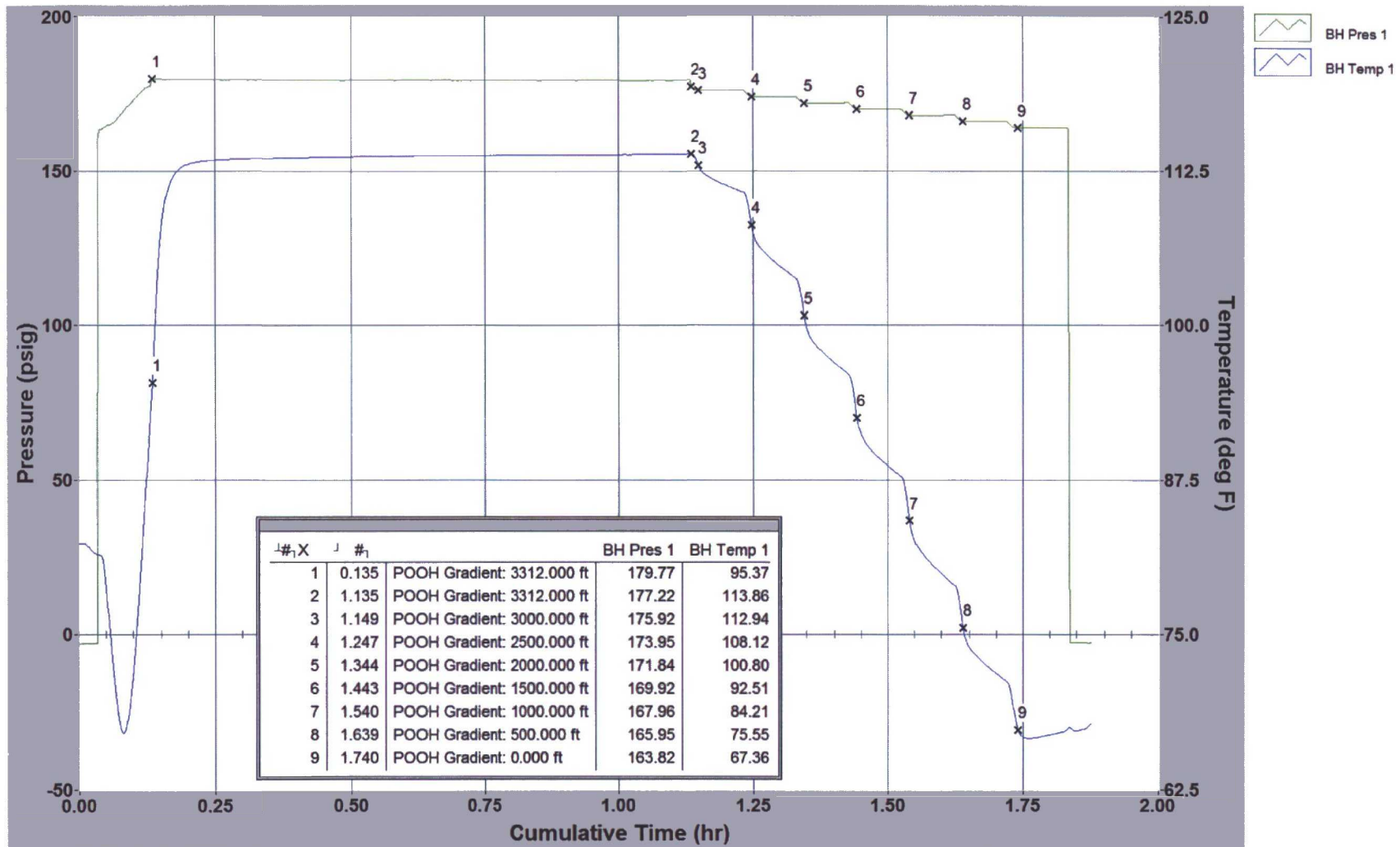
W1036 Depth vs. Temperature



Company Name ConocoPhillips
 Well Name San Juan 31-6 Unit #229
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San Juan 31-6 Unit #229



Company Name ConocoPhillips
Well Name San Juan 31-6 Unit #229
Type of Test POOH Static Gradient
Date(s) of Test 5/15/2017



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	10:49:35	0.0000	-2.883	82.369
2017/05/15	10:50:05	0.0083	-2.786	82.369
2017/05/15	10:50:35	0.0167	-2.725	82.110
2017/05/15	10:51:05	0.0250	-2.714	81.718
2017/05/15	10:51:35	0.0333	-2.691	81.495
2017/05/15	10:52:05	0.0417	163.471	81.367
2017/05/15	10:52:35	0.0500	164.281	78.764
2017/05/15	10:53:05	0.0583	165.098	74.467
2017/05/15	10:53:35	0.0667	165.964	70.691
2017/05/15	10:54:05	0.0750	167.554	67.921
2017/05/15	10:54:35	0.0833	169.298	67.111
2017/05/15	10:55:05	0.0917	171.129	68.770
2017/05/15	10:55:35	0.1000	172.618	72.235
2017/05/15	10:56:05	0.1083	174.247	76.935
2017/05/15	10:56:35	0.1167	175.772	82.450
2017/05/15	10:57:05	0.1250	177.037	88.441
2017/05/15	10:57:35	0.1333	179.177	94.410
POOH Gradient: 3312.000 ft				
2017/05/15	10:57:40	0.1347	179.765	95.365
2017/05/15	10:58:05	0.1417	179.749	101.980
2017/05/15	10:58:35	0.1500	179.698	107.287
2017/05/15	10:59:05	0.1583	179.564	110.014
2017/05/15	10:59:35	0.1667	179.518	111.416
2017/05/15	11:00:05	0.1750	179.462	112.181
2017/05/15	11:00:35	0.1833	179.450	112.620
2017/05/15	11:01:05	0.1917	179.412	112.896
2017/05/15	11:01:35	0.2000	179.407	113.049
2017/05/15	11:02:05	0.2083	179.400	113.151
2017/05/15	11:02:35	0.2167	179.399	113.218
2017/05/15	11:03:05	0.2250	179.393	113.283
2017/05/15	11:03:35	0.2333	179.392	113.317
2017/05/15	11:04:05	0.2417	179.390	113.351
2017/05/15	11:04:35	0.2500	179.386	113.382
2017/05/15	11:05:05	0.2583	179.383	113.396
2017/05/15	11:05:35	0.2667	179.378	113.412
2017/05/15	11:06:05	0.2750	179.382	113.430
2017/05/15	11:06:35	0.2833	179.388	113.448
2017/05/15	11:07:05	0.2917	179.392	113.461
2017/05/15	11:07:35	0.3000	179.389	113.479
2017/05/15	11:08:05	0.3083	179.381	113.491
2017/05/15	11:08:35	0.3167	179.385	113.502
2017/05/15	11:09:05	0.3250	179.377	113.518
2017/05/15	11:09:35	0.3333	179.391	113.529
2017/05/15	11:10:05	0.3417	179.392	113.535
2017/05/15	11:10:35	0.3500	179.386	113.551
2017/05/15	11:11:05	0.3583	179.384	113.554
2017/05/15	11:11:35	0.3667	179.384	113.563
2017/05/15	11:12:05	0.3750	179.393	113.572
2017/05/15	11:12:35	0.3833	179.393	113.576
2017/05/15	11:13:05	0.3917	179.388	113.590
2017/05/15	11:13:35	0.4000	179.388	113.598
2017/05/15	11:14:05	0.4083	179.391	113.601
2017/05/15	11:14:35	0.4167	179.397	113.612
2017/05/15	11:15:05	0.4250	179.406	113.616

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	11:15:35	0.4333	179.392	113.623
2017/05/15	11:16:05	0.4417	179.392	113.630
2017/05/15	11:16:35	0.4500	179.390	113.635
2017/05/15	11:17:05	0.4583	179.390	113.644
2017/05/15	11:17:35	0.4667	179.396	113.650
2017/05/15	11:18:05	0.4750	179.399	113.652
2017/05/15	11:18:35	0.4833	179.371	113.659
2017/05/15	11:19:05	0.4917	179.394	113.664
2017/05/15	11:19:35	0.5000	179.388	113.670
2017/05/15	11:20:05	0.5083	179.385	113.673
2017/05/15	11:20:35	0.5167	179.383	113.680
2017/05/15	11:21:05	0.5250	179.389	113.682
2017/05/15	11:21:35	0.5333	179.386	113.693
2017/05/15	11:22:05	0.5417	179.386	113.697
2017/05/15	11:22:35	0.5500	179.389	113.702
2017/05/15	11:23:05	0.5583	179.387	113.709
2017/05/15	11:23:35	0.5667	179.381	113.704
2017/05/15	11:24:05	0.5750	179.384	113.713
2017/05/15	11:24:35	0.5833	179.381	113.715
2017/05/15	11:25:05	0.5917	179.393	113.718
2017/05/15	11:25:35	0.6000	179.387	113.725
2017/05/15	11:26:05	0.6083	179.390	113.724
2017/05/15	11:26:35	0.6167	179.402	113.729
2017/05/15	11:27:05	0.6250	179.394	113.736
2017/05/15	11:27:35	0.6333	179.396	113.740
2017/05/15	11:28:05	0.6417	179.388	113.740
2017/05/15	11:28:35	0.6500	179.380	113.743
2017/05/15	11:29:05	0.6583	179.385	113.747
2017/05/15	11:29:35	0.6667	179.388	113.747
2017/05/15	11:30:05	0.6750	179.389	113.756
2017/05/15	11:30:35	0.6833	179.389	113.756
2017/05/15	11:31:05	0.6917	179.380	113.760
2017/05/15	11:31:35	0.7000	179.375	113.765
2017/05/15	11:32:05	0.7083	179.381	113.770
2017/05/15	11:32:35	0.7167	179.384	113.772
2017/05/15	11:33:05	0.7250	179.378	113.776
2017/05/15	11:33:35	0.7333	179.387	113.779
2017/05/15	11:34:05	0.7417	179.389	113.774
2017/05/15	11:34:35	0.7500	179.390	113.781
2017/05/15	11:35:05	0.7583	179.392	113.779
2017/05/15	11:35:35	0.7667	179.390	113.790
2017/05/15	11:36:05	0.7750	179.384	113.788
2017/05/15	11:36:35	0.7833	179.381	113.788
2017/05/15	11:37:05	0.7917	179.384	113.794
2017/05/15	11:37:35	0.8000	179.382	113.797
2017/05/15	11:38:05	0.8083	179.387	113.799
2017/05/15	11:38:35	0.8167	179.391	113.805
2017/05/15	11:39:05	0.8250	179.388	113.803
2017/05/15	11:39:35	0.8333	179.388	113.810
2017/05/15	11:40:05	0.8417	179.393	113.803
2017/05/15	11:40:35	0.8500	179.379	113.806
2017/05/15	11:41:05	0.8583	179.382	113.810
2017/05/15	11:41:35	0.8667	179.391	113.815
2017/05/15	11:42:05	0.8750	179.394	113.819

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	11:42:35	0.8833	179.385	113.817
2017/05/15	11:43:05	0.8917	179.391	113.824
2017/05/15	11:43:35	0.9000	179.388	113.824
2017/05/15	11:44:05	0.9083	179.394	113.823
2017/05/15	11:44:35	0.9167	179.386	113.832
2017/05/15	11:45:05	0.9250	179.383	113.830
2017/05/15	11:45:35	0.9333	179.392	113.830
2017/05/15	11:46:05	0.9417	179.383	113.830
2017/05/15	11:46:35	0.9500	179.392	113.830
2017/05/15	11:47:05	0.9583	179.389	113.839
2017/05/15	11:47:35	0.9667	179.392	113.832
2017/05/15	11:48:05	0.9750	179.395	113.841
2017/05/15	11:48:35	0.9833	179.395	113.837
2017/05/15	11:49:05	0.9917	179.386	113.841
2017/05/15	11:49:35	1.0000	179.389	113.839
2017/05/15	11:50:05	1.0083	179.369	113.846
2017/05/15	11:50:35	1.0167	179.378	113.844
2017/05/15	11:51:05	1.0250	179.375	113.846
2017/05/15	11:51:35	1.0333	179.373	113.851
2017/05/15	11:52:05	1.0417	179.373	113.850
2017/05/15	11:52:35	1.0500	179.373	113.853
2017/05/15	11:53:05	1.0583	179.381	113.855
2017/05/15	11:53:35	1.0667	179.381	113.850
2017/05/15	11:54:05	1.0750	179.384	113.866
2017/05/15	11:54:35	1.0833	179.384	113.860
2017/05/15	11:55:05	1.0917	179.379	113.862
2017/05/15	11:55:35	1.1000	179.378	113.860
2017/05/15	11:56:05	1.1083	179.384	113.866
2017/05/15	11:56:35	1.1167	179.384	113.857
2017/05/15	11:57:05	1.1250	179.379	113.869
2017/05/15	11:57:35	1.1333	179.353	113.866
POOH Gradient: 3312.000 ft				
2017/05/15	11:57:40	1.1347	177.225	113.864
2017/05/15	11:58:05	1.1417	176.477	113.666
POOH Gradient: 3000.000 ft				
2017/05/15	11:58:30	1.1486	175.925	112.937
2017/05/15	11:58:35	1.1500	175.920	112.782
2017/05/15	11:59:05	1.1583	175.909	112.282
2017/05/15	11:59:35	1.1667	175.915	112.021
2017/05/15	12:00:05	1.1750	175.920	111.825
2017/05/15	12:00:35	1.1833	175.925	111.646
2017/05/15	12:01:05	1.1917	175.931	111.479
2017/05/15	12:01:35	1.2000	175.937	111.317
2017/05/15	12:02:05	1.2083	175.933	111.171
2017/05/15	12:02:35	1.2167	175.936	111.024
2017/05/15	12:03:05	1.2250	175.946	110.881
2017/05/15	12:03:35	1.2333	175.680	110.727
2017/05/15	12:04:05	1.2417	174.436	109.544
POOH Gradient: 2500.000 ft				
2017/05/15	12:04:25	1.2472	173.955	108.118
2017/05/15	12:04:35	1.2500	173.911	107.508
2017/05/15	12:05:05	1.2583	173.883	106.605
2017/05/15	12:05:35	1.2667	173.869	106.115
2017/05/15	12:06:05	1.2750	173.896	105.726

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	12:06:35	1.2833	173.902	105.381
2017/05/15	12:07:05	1.2917	173.912	105.062
2017/05/15	12:07:35	1.3000	173.916	104.761
2017/05/15	12:08:05	1.3083	173.918	104.473
2017/05/15	12:08:35	1.3167	173.926	104.205
2017/05/15	12:09:05	1.3250	173.931	103.926
2017/05/15	12:09:35	1.3333	173.574	103.624
2017/05/15	12:10:05	1.3417	171.992	101.712
POOH Gradient: 2000.000 ft				
2017/05/15	12:10:15	1.3444	171.844	100.798
2017/05/15	12:10:35	1.3500	171.821	99.642
2017/05/15	12:11:05	1.3583	171.860	98.866
2017/05/15	12:11:35	1.3667	171.865	98.375
2017/05/15	12:12:05	1.3750	171.876	97.975
2017/05/15	12:12:35	1.3833	171.883	97.624
2017/05/15	12:13:05	1.3917	171.893	97.299
2017/05/15	12:13:35	1.4000	171.895	96.987
2017/05/15	12:14:05	1.4083	171.908	96.690
2017/05/15	12:14:35	1.4167	171.921	96.400
2017/05/15	12:15:05	1.4250	171.932	96.114
2017/05/15	12:15:35	1.4333	171.128	95.423
2017/05/15	12:16:05	1.4417	169.943	92.950
POOH Gradient: 1500.000 ft				
2017/05/15	12:16:10	1.4431	169.919	92.505
2017/05/15	12:16:35	1.4500	169.892	91.233
2017/05/15	12:17:05	1.4583	169.887	90.543
2017/05/15	12:17:35	1.4667	169.896	90.061
2017/05/15	12:18:05	1.4750	169.906	89.663
2017/05/15	12:18:35	1.4833	169.917	89.307
2017/05/15	12:19:05	1.4917	169.924	88.972
2017/05/15	12:19:35	1.5000	169.938	88.651
2017/05/15	12:20:05	1.5083	169.943	88.347
2017/05/15	12:20:35	1.5167	169.951	88.048
2017/05/15	12:21:05	1.5250	169.962	87.751
2017/05/15	12:21:35	1.5333	168.640	86.486
POOH Gradient: 1000.000 ft				
2017/05/15	12:22:00	1.5403	167.964	84.213
2017/05/15	12:22:05	1.5417	167.925	83.827
2017/05/15	12:22:35	1.5500	167.895	82.571
2017/05/15	12:23:05	1.5583	167.905	81.932
2017/05/15	12:23:35	1.5667	167.914	81.444
2017/05/15	12:24:05	1.5750	167.921	81.018
2017/05/15	12:24:35	1.5833	167.935	80.627
2017/05/15	12:25:05	1.5917	167.946	80.263
2017/05/15	12:25:35	1.6000	167.955	79.907
2017/05/15	12:26:05	1.6083	167.980	79.565
2017/05/15	12:26:35	1.6167	167.972	79.239
2017/05/15	12:27:05	1.6250	167.838	78.906
2017/05/15	12:27:35	1.6333	166.446	77.256
POOH Gradient: 500.000 ft				
2017/05/15	12:27:55	1.6389	165.951	75.553
2017/05/15	12:28:05	1.6417	165.893	74.959
2017/05/15	12:28:35	1.6500	165.892	74.061
2017/05/15	12:29:05	1.6583	165.895	73.551

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Date(s) of Test 5/15/2017



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	12:29:35	1.6667	165.896	73.148
2017/05/15	12:30:05	1.6750	165.910	72.801
2017/05/15	12:30:35	1.6833	165.918	72.482
2017/05/15	12:31:05	1.6917	165.929	72.181
2017/05/15	12:31:35	1.7000	165.940	71.888
2017/05/15	12:32:05	1.7083	165.937	71.600
2017/05/15	12:32:35	1.7167	165.950	71.325
2017/05/15	12:33:05	1.7250	165.332	70.887
2017/05/15	12:33:35	1.7333	164.051	68.830
POOH Gradient: 0.000 ft				
2017/05/15	12:34:00	1.7403	163.821	67.356
2017/05/15	12:34:05	1.7417	163.825	67.185
2017/05/15	12:34:35	1.7500	163.820	66.745
2017/05/15	12:35:05	1.7583	163.814	66.654
2017/05/15	12:35:35	1.7667	163.811	66.664
2017/05/15	12:36:05	1.7750	163.807	66.713
2017/05/15	12:36:35	1.7833	163.813	66.790
2017/05/15	12:37:05	1.7917	163.814	66.861
2017/05/15	12:37:35	1.8000	163.818	66.940
2017/05/15	12:38:05	1.8083	163.816	67.023
2017/05/15	12:38:35	1.8167	163.819	67.104
2017/05/15	12:39:05	1.8250	163.812	67.186
2017/05/15	12:39:35	1.8333	163.790	67.451
2017/05/15	12:40:05	1.8417	-2.478	67.314
2017/05/15	12:40:35	1.8500	-2.534	67.267
2017/05/15	12:41:05	1.8583	-2.564	67.370
2017/05/15	12:41:35	1.8667	-2.574	67.480