

✓ Allison Unit 2 POW
API # 30-045-29004

Pressure Test Report

COMPANY INFORMATION

Company Name	ConocoPhillips
Representative	Priscilla Shorty
Phone	
Fax	
Address	

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

WELL INFORMATION

Well Name	Allison Unit #2 POW
Well Location	T32N, R6W, Sec 19
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	3062-3134
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	12
Casing Flange (CF)	
KB-CF	
Ground Level	6141
Plug Back Total Depth	3600
Total Depth	3645
Production Casing	4 1/2 to 3643
Production Tubing	2 3/8 to 3040

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/20/16
Dead-weight Gauge Tubing Pressure	801
Dead-weight Gauge Casing Pressure	0
Shut-in Date (Duration)	
Date / Time on Bottom	5/20/16 @0937
Date / Time off Bottom	5/20/16 @1037
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3098

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	100.1 psig
Maximum Recorded Probe Temperature	117.9 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

Company Name ConocoPhillips
Well Name Allison Unit #2 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/20/16



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
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Date(s) of Test	5/20/16



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @3596 WLM. RIH with memory gauge to 3098 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)
		3098.000	99.950	-	94.554	-
0937	1037	3098.000	86.375	-	117.853	-
1038	1043	2500.000	85.328	0.0018	115.689	0.0036
1044	1049	2000.000	84.241	0.0022	108.644	0.0141
1050	1055	1500.000	83.306	0.0019	99.878	0.0175
1056	1101	1000.000	82.536	0.0015	92.298	0.0152
1102	1107	500.000	81.538	0.0020	83.687	0.0172
1108	1113	0.000	80.558	0.0020	74.385	0.0186

Extrapolated to MPP:

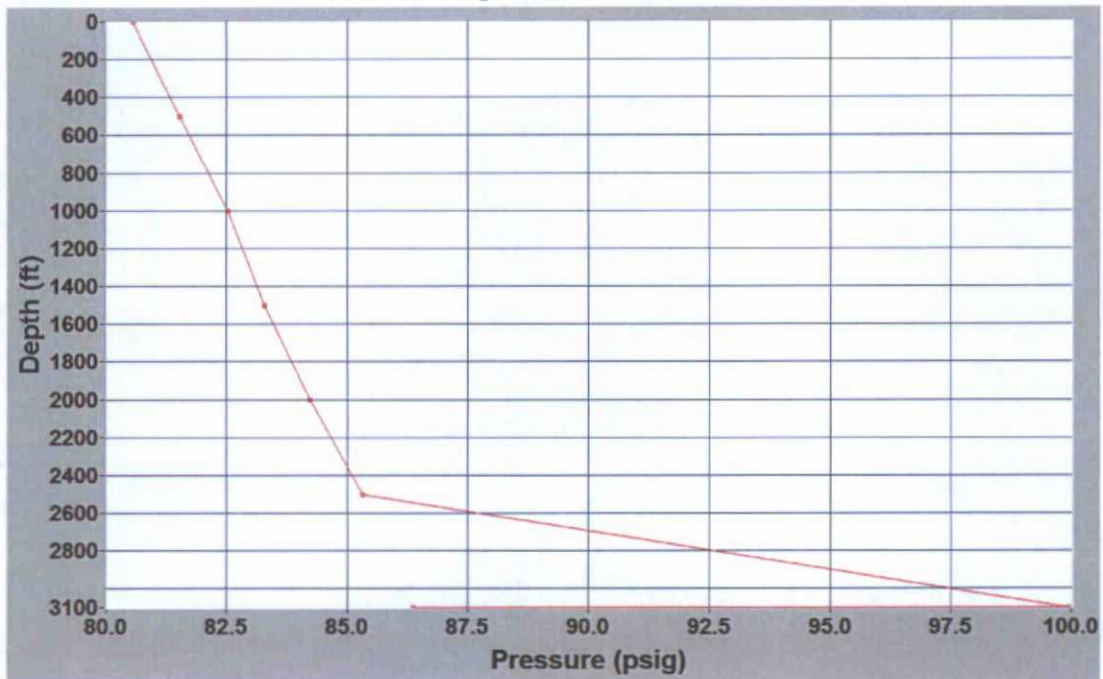
(ft)	(psig)	(deg F)
0.000		

Company Name ConocoPhillips
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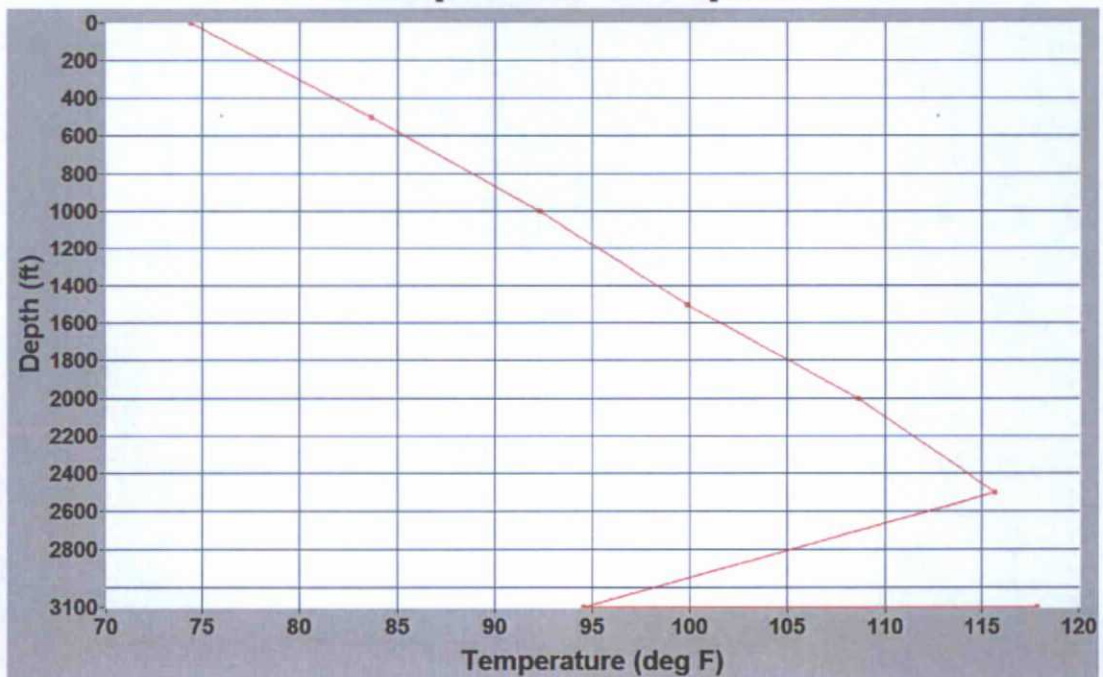


Probe Serial Number W1036

W1036 Depth vs. Pressure



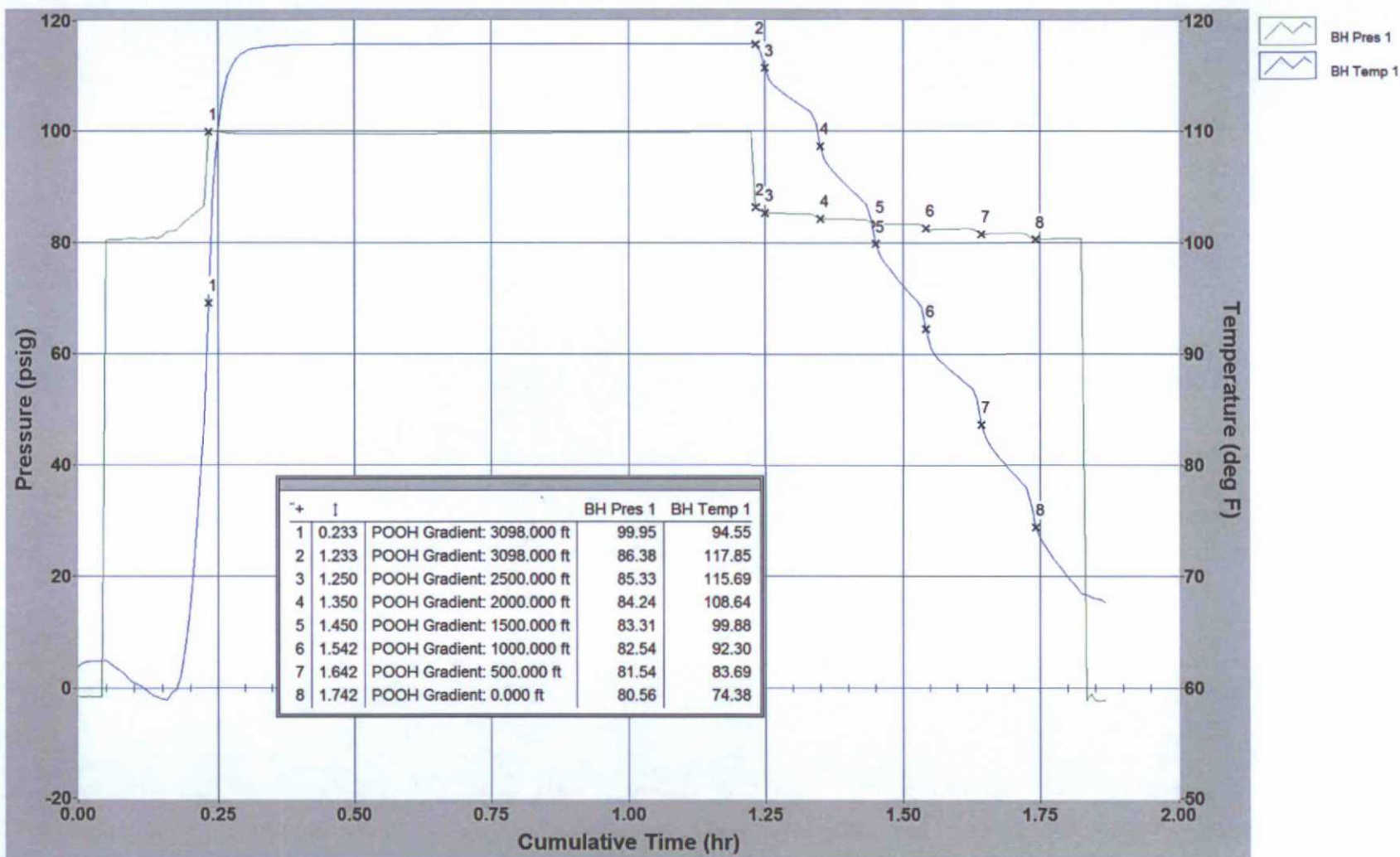
W1036 Depth vs. Temperature



Company Name ConocoPhillips
 Well Name Allison Unit #2 POW
 Type of Test POOH Static Gradient
 Date(s) of Test 5/20/16



Allison Unit #2 POW



Company Name ConocoPhillips
Well Name Allison Unit #2 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/20/16



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/19	09:23:40	0.0000	-1.491	61.934
2016/05/19	09:24:10	0.0083	-1.541	62.209
2016/05/19	09:24:40	0.0167	-1.535	62.348
2016/05/19	09:25:10	0.0250	-1.563	62.422
2016/05/19	09:25:40	0.0333	-1.645	62.389
2016/05/19	09:26:10	0.0417	-1.646	62.384
2016/05/19	09:26:40	0.0500	80.324	62.438
2016/05/19	09:27:10	0.0583	80.445	62.109
2016/05/19	09:27:40	0.0667	80.498	61.810
2016/05/19	09:28:10	0.0750	80.529	61.579
2016/05/19	09:28:40	0.0833	80.593	61.234
2016/05/19	09:29:10	0.0917	80.681	60.678
2016/05/19	09:29:40	0.1000	80.716	60.417
2016/05/19	09:30:10	0.1083	80.574	60.238
2016/05/19	09:30:40	0.1167	80.565	60.067
2016/05/19	09:31:10	0.1250	80.763	59.634
2016/05/19	09:31:40	0.1333	80.803	59.355
2016/05/19	09:32:10	0.1417	80.679	59.225
2016/05/19	09:32:40	0.1500	81.128	58.977
2016/05/19	09:33:10	0.1583	81.842	58.968
2016/05/19	09:33:40	0.1667	82.022	59.511
2016/05/19	09:34:10	0.1750	82.133	59.949
2016/05/19	09:34:40	0.1833	82.988	61.097
2016/05/19	09:35:10	0.1917	83.739	63.624
2016/05/19	09:35:40	0.2000	84.515	67.284
2016/05/19	09:36:10	0.2083	85.195	72.021
2016/05/19	09:36:40	0.2167	85.868	77.589
2016/05/19	09:37:10	0.2250	86.535	83.975
POOH Gradient: 3098.000 ft				
2016/05/19	09:37:40	0.2333	99.950	94.554
2016/05/19	09:38:10	0.2417	100.050	104.869
2016/05/19	09:38:40	0.2500	99.877	110.246
2016/05/19	09:39:10	0.2583	99.792	113.220
2016/05/19	09:39:40	0.2667	99.696	114.955
2016/05/19	09:40:10	0.2750	99.637	115.983
2016/05/19	09:40:40	0.2833	99.580	116.607
2016/05/19	09:41:10	0.2917	99.559	117.009
2016/05/19	09:41:40	0.3000	99.545	117.257
2016/05/19	09:42:10	0.3083	99.539	117.424
2016/05/19	09:42:40	0.3167	99.530	117.541
2016/05/19	09:43:10	0.3250	99.515	117.619
2016/05/19	09:43:40	0.3333	99.510	117.662
2016/05/19	09:44:10	0.3417	99.504	117.714
2016/05/19	09:44:40	0.3500	99.500	117.741
2016/05/19	09:45:10	0.3583	99.496	117.761
2016/05/19	09:45:40	0.3667	99.492	117.777
2016/05/19	09:46:10	0.3750	99.469	117.793
2016/05/19	09:46:40	0.3833	99.453	117.817
2016/05/19	09:47:10	0.3917	99.453	117.822
2016/05/19	09:47:40	0.4000	99.455	117.833
2016/05/19	09:48:10	0.4083	99.452	117.837
2016/05/19	09:48:40	0.4167	99.452	117.846
2016/05/19	09:49:10	0.4250	99.454	117.856
2016/05/19	09:49:40	0.4333	99.457	117.862

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/19	09:50:10	0.4417	99.454	117.862
2016/05/19	09:50:40	0.4500	99.456	117.873
2016/05/19	09:51:10	0.4583	99.459	117.876
2016/05/19	09:51:40	0.4667	99.455	117.885
2016/05/19	09:52:10	0.4750	99.452	117.889
2016/05/19	09:52:40	0.4833	99.453	117.887
2016/05/19	09:53:10	0.4917	99.455	117.891
2016/05/19	09:53:40	0.5000	99.458	117.898
2016/05/19	09:54:10	0.5083	99.460	117.900
2016/05/19	09:54:40	0.5167	99.463	117.901
2016/05/19	09:55:10	0.5250	99.466	117.898
2016/05/19	09:55:40	0.5333	99.469	117.903
2016/05/19	09:56:10	0.5417	99.471	117.910
2016/05/19	09:56:40	0.5500	99.474	117.912
2016/05/19	09:57:10	0.5583	99.476	117.916
2016/05/19	09:57:40	0.5667	99.479	117.918
2016/05/19	09:58:10	0.5750	99.499	117.914
2016/05/19	09:58:40	0.5833	99.502	117.914
2016/05/19	09:59:10	0.5917	99.502	117.918
2016/05/19	09:59:40	0.6000	99.505	117.914
2016/05/19	10:00:10	0.6083	99.508	117.914
2016/05/19	10:00:40	0.6167	99.516	117.916
2016/05/19	10:01:10	0.6250	99.570	117.910
2016/05/19	10:01:40	0.6333	99.573	117.914
2016/05/19	10:02:10	0.6417	99.576	117.914
2016/05/19	10:02:40	0.6500	99.578	117.919
2016/05/19	10:03:10	0.6583	99.581	117.918
2016/05/19	10:03:40	0.6667	99.587	117.912
2016/05/19	10:04:10	0.6750	99.590	117.916
2016/05/19	10:04:40	0.6833	99.593	117.916
2016/05/19	10:05:10	0.6917	99.595	117.916
2016/05/19	10:05:40	0.7000	99.598	117.914
2016/05/19	10:06:10	0.7083	99.601	117.918
2016/05/19	10:06:40	0.7167	99.604	117.914
2016/05/19	10:07:10	0.7250	99.607	117.912
2016/05/19	10:07:40	0.7333	99.607	117.918
2016/05/19	10:08:10	0.7417	99.607	117.912
2016/05/19	10:08:40	0.7500	99.607	117.909
2016/05/19	10:09:10	0.7583	99.610	117.910
2016/05/19	10:09:40	0.7667	99.607	117.910
2016/05/19	10:10:10	0.7750	99.607	117.912
2016/05/19	10:10:40	0.7833	99.618	117.910
2016/05/19	10:11:10	0.7917	99.621	117.910
2016/05/19	10:11:40	0.8000	99.644	117.910
2016/05/19	10:12:10	0.8083	99.698	117.905
2016/05/19	10:12:40	0.8167	99.701	117.909
2016/05/19	10:13:10	0.8250	99.703	117.910
2016/05/19	10:13:40	0.8333	99.701	117.909
2016/05/19	10:14:10	0.8417	99.704	117.900
2016/05/19	10:14:40	0.8500	99.706	117.912
2016/05/19	10:15:10	0.8583	99.709	117.912
2016/05/19	10:15:40	0.8667	99.712	117.912
2016/05/19	10:16:10	0.8750	99.715	117.910
2016/05/19	10:16:40	0.8833	99.718	117.907

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/19	10:17:10	0.8917	99.720	117.914
2016/05/19	10:17:40	0.9000	99.723	117.903
2016/05/19	10:18:10	0.9083	99.729	117.912
2016/05/19	10:18:40	0.9167	99.765	117.914
2016/05/19	10:19:10	0.9250	99.768	117.910
2016/05/19	10:19:40	0.9333	99.772	117.905
2016/05/19	10:20:10	0.9417	99.774	117.909
2016/05/19	10:20:40	0.9500	99.775	117.901
2016/05/19	10:21:10	0.9583	99.777	117.909
2016/05/19	10:21:40	0.9667	99.803	117.905
2016/05/19	10:22:10	0.9750	99.805	117.910
2016/05/19	10:22:40	0.9833	99.802	117.907
2016/05/19	10:23:10	0.9917	99.806	117.903
2016/05/19	10:23:40	1.0000	99.802	117.910
2016/05/19	10:24:10	1.0083	99.805	117.907
2016/05/19	10:24:40	1.0167	99.808	117.909
2016/05/19	10:25:10	1.0250	99.811	117.914
2016/05/19	10:25:40	1.0333	99.814	117.914
2016/05/19	10:26:10	1.0417	99.817	117.910
2016/05/19	10:26:40	1.0500	99.819	117.909
2016/05/19	10:27:10	1.0583	99.822	117.912
2016/05/19	10:27:40	1.0667	99.825	117.905
2016/05/19	10:28:10	1.0750	99.828	117.912
2016/05/19	10:28:40	1.0833	99.830	117.914
2016/05/19	10:29:10	1.0917	99.833	117.912
2016/05/19	10:29:40	1.1000	99.837	117.905
2016/05/19	10:30:10	1.1083	99.839	117.907
2016/05/19	10:30:40	1.1167	99.842	117.909
2016/05/19	10:31:10	1.1250	99.845	117.914
2016/05/19	10:31:40	1.1333	99.848	117.912
2016/05/19	10:32:10	1.1417	99.850	117.912
2016/05/19	10:32:40	1.1500	99.853	117.912
2016/05/19	10:33:10	1.1583	99.856	117.912
2016/05/19	10:33:40	1.1667	99.859	117.912
2016/05/19	10:34:10	1.1750	99.862	117.912
2016/05/19	10:34:40	1.1833	99.864	117.916
2016/05/19	10:35:10	1.1917	99.896	117.916
2016/05/19	10:35:40	1.2000	99.893	117.914
2016/05/19	10:36:10	1.2083	99.902	117.910
2016/05/19	10:36:40	1.2167	99.913	117.910
2016/05/19	10:37:10	1.2250	99.913	117.912
POOH Gradient: 3098.000 ft				
2016/05/19	10:37:40	1.2333	86.375	117.853
2016/05/19	10:38:10	1.2417	85.799	117.183
POOH Gradient: 2500.000 ft				
2016/05/19	10:38:40	1.2500	85.328	115.689
2016/05/19	10:39:10	1.2583	85.235	114.559
2016/05/19	10:39:40	1.2667	85.260	114.076
2016/05/19	10:40:10	1.2750	85.280	113.724
2016/05/19	10:40:40	1.2833	85.237	113.407
2016/05/19	10:41:10	1.2917	85.172	113.108
2016/05/19	10:41:40	1.3000	85.191	112.815
2016/05/19	10:42:10	1.3083	85.213	112.534
2016/05/19	10:42:40	1.3167	85.228	112.257

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/19	10:43:10	1.3250	85.207	111.978
2016/05/19	10:43:40	1.3333	85.224	111.727
2016/05/19	10:44:10	1.3417	84.671	110.791
POOH Gradient: 2000.000 ft				
2016/05/19	10:44:40	1.3500	84.241	108.644
2016/05/19	10:45:10	1.3583	84.211	107.384
2016/05/19	10:45:40	1.3667	84.223	106.776
2016/05/19	10:46:10	1.3750	84.262	106.281
2016/05/19	10:46:40	1.3833	84.298	105.827
2016/05/19	10:47:10	1.3917	84.232	105.402
2016/05/19	10:47:40	1.4000	84.237	104.983
2016/05/19	10:48:10	1.4083	84.230	104.590
2016/05/19	10:48:40	1.4167	84.183	104.193
2016/05/19	10:49:10	1.4250	84.163	103.825
2016/05/19	10:49:40	1.4333	84.154	103.460
2016/05/19	10:50:10	1.4417	83.601	102.087
POOH Gradient: 1500.000 ft				
2016/05/19	10:50:40	1.4500	83.306	99.878
2016/05/19	10:51:10	1.4583	83.338	98.868
2016/05/19	10:51:40	1.4667	83.292	98.229
2016/05/19	10:52:10	1.4750	83.293	97.668
2016/05/19	10:52:40	1.4833	83.304	97.135
2016/05/19	10:53:10	1.4917	83.351	96.622
2016/05/19	10:53:40	1.5000	83.369	96.134
2016/05/19	10:54:10	1.5083	83.377	95.659
2016/05/19	10:54:40	1.5167	83.378	95.205
2016/05/19	10:55:10	1.5250	83.359	94.757
2016/05/19	10:55:40	1.5333	83.142	94.206
POOH Gradient: 1000.000 ft				
2016/05/19	10:56:10	1.5417	82.536	92.298
2016/05/19	10:56:40	1.5500	82.328	90.522
2016/05/19	10:57:10	1.5583	82.366	89.859
2016/05/19	10:57:40	1.5667	82.411	89.415
2016/05/19	10:58:10	1.5750	82.450	89.022
2016/05/19	10:58:40	1.5833	82.406	88.650
2016/05/19	10:59:10	1.5917	82.443	88.282
2016/05/19	10:59:40	1.6000	82.478	87.937
2016/05/19	11:00:10	1.6083	82.501	87.595
2016/05/19	11:00:40	1.6167	82.517	87.249
2016/05/19	11:01:10	1.6250	82.486	86.914
2016/05/19	11:01:40	1.6333	82.051	85.973
POOH Gradient: 500.000 ft				
2016/05/19	11:02:10	1.6417	81.538	83.687
2016/05/19	11:02:40	1.6500	81.516	82.377
2016/05/19	11:03:10	1.6583	81.593	81.716
2016/05/19	11:03:40	1.6667	81.590	81.160
2016/05/19	11:04:10	1.6750	81.589	80.661
2016/05/19	11:04:40	1.6833	81.606	80.179
2016/05/19	11:05:10	1.6917	81.637	79.711
2016/05/19	11:05:40	1.7000	81.663	79.261
2016/05/19	11:06:10	1.7083	81.681	78.823
2016/05/19	11:06:40	1.7167	81.693	78.386
2016/05/19	11:07:10	1.7250	81.549	77.961
2016/05/19	11:07:40	1.7333	80.881	76.419

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 Type of Test POOH Static Gradient
 Date(s) of Test 5/20/16



Date	Time	Cum. Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
POOH Gradient: 0.000 ft				
2016/05/19	11:08:10	1.7417	80.558	74.385
2016/05/19	11:08:40	1.7500	80.565	73.391
2016/05/19	11:09:10	1.7583	80.574	72.725
2016/05/19	11:09:40	1.7667	80.628	72.129
2016/05/19	11:10:10	1.7750	80.676	71.560
2016/05/19	11:10:40	1.7833	80.671	71.015
2016/05/19	11:11:10	1.7917	80.683	70.482
2016/05/19	11:11:40	1.8000	80.720	69.962
2016/05/19	11:12:10	1.8083	80.722	69.454
2016/05/19	11:12:40	1.8167	80.734	68.963
2016/05/19	11:13:10	1.8250	80.674	68.479
2016/05/19	11:13:40	1.8333	-2.202	68.306
2016/05/19	11:14:10	1.8417	-1.099	68.117
2016/05/19	11:14:40	1.8500	-2.287	67.989
2016/05/19	11:15:10	1.8583	-2.329	67.917