

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

Pressure Test Report

COMPANY INFORMATION

Company Name	ConocoPhillips
Representative	Priscilla Shorty
Phone	
Fax	
Address	

OIL CONS. DIV DIST. 3
MAY 26 2017

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	5/24/17
Dead-weight Gauge Tubing Pressure	80
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/24/17 @ 0740
Date / Time off Bottom	5/24/17 @ 0840
Probe Serial Number	W1035
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3098

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	100.5 psig
Maximum Recorded Probe Temperature	118.1 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

NWOC D TA Expires 7-30-18

Company Name ConocoPhillips
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Type of Test POOH Static Gradient
Date(s) of Test 5/24/17



PROBE INFORMATION

Probe Serial Number W1035
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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COMMENTS

Reported By

Expert Downhole Services, Inc

RIH with 1.50 Impression Block and tagged fill @ 3587 WLM. RIH with BHP 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 W1035

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
		3098.000	99.883	-	92.525	-
0740	0840	3098.000	98.803	-	118.128	-
0841	0846	2500.000	82.998	0.0264	115.887	0.0037
0847	0852	2000.000	82.211	0.0016	108.628	0.0145
0853	0858	1500.000	81.474	0.0015	100.625	0.0160
0858	0903	1000.000	80.718	0.0015	91.864	0.0175
0904	0909	500.000	79.881	0.0017	83.863	0.0160
0910	0915	0.000	79.018	0.0017	73.783	0.0202

Extrapolated to MPP:

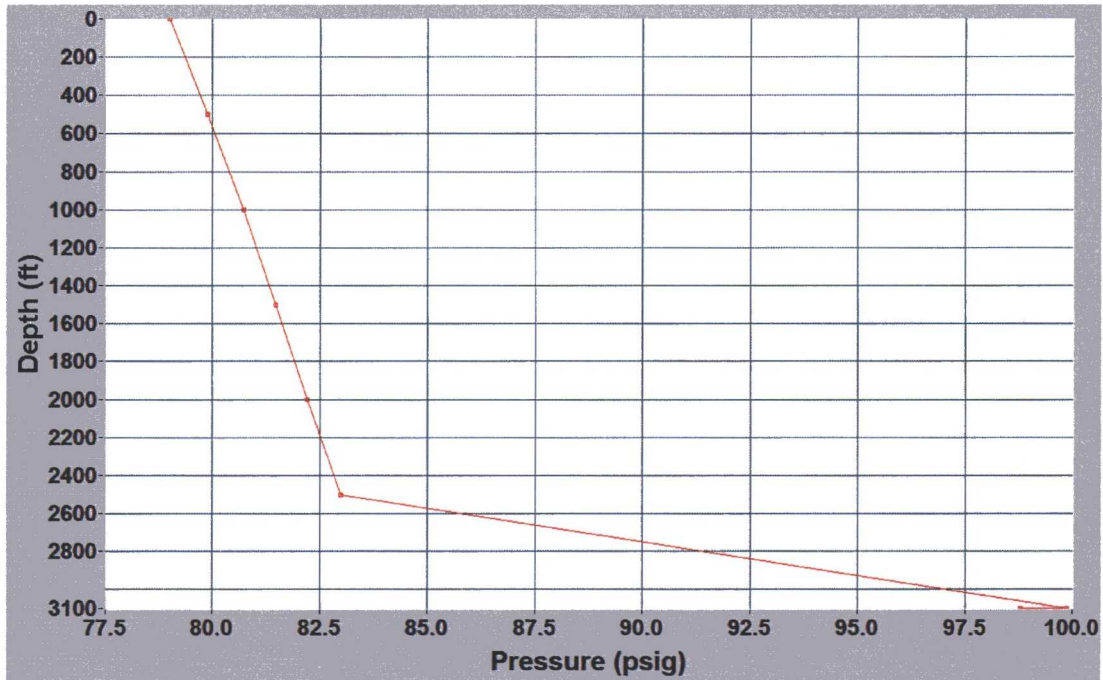
(ft)	(psig)	(deg F)
0.000		

Company Name ConocoPhillips
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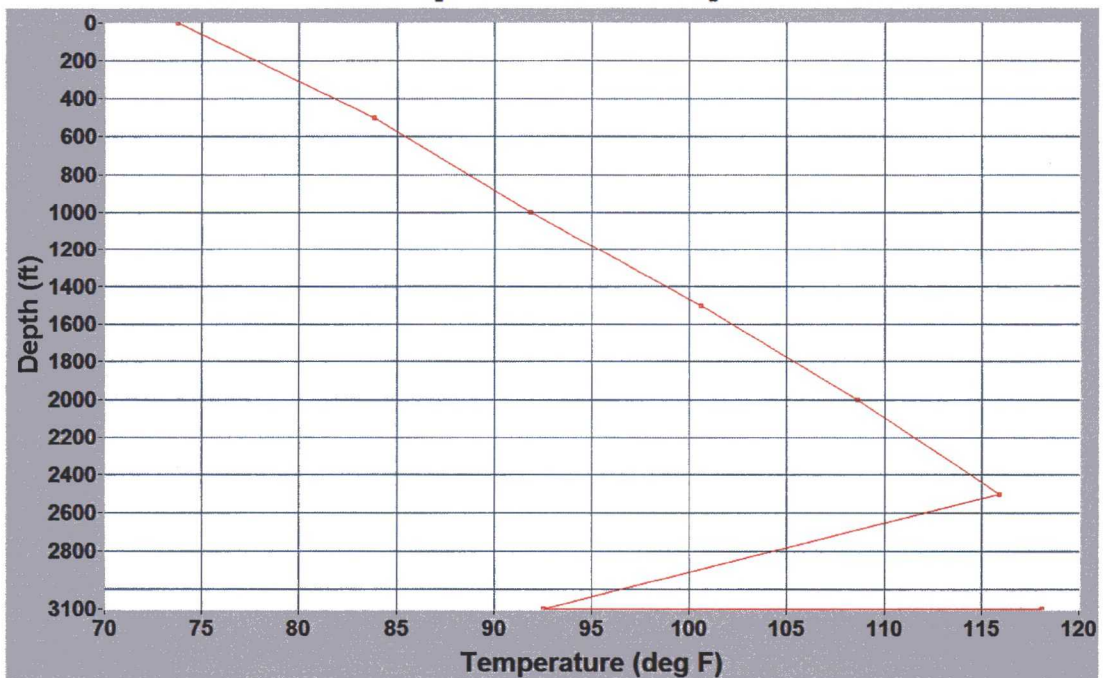


Probe Serial Number W1035

W1035 Depth vs. Pressure



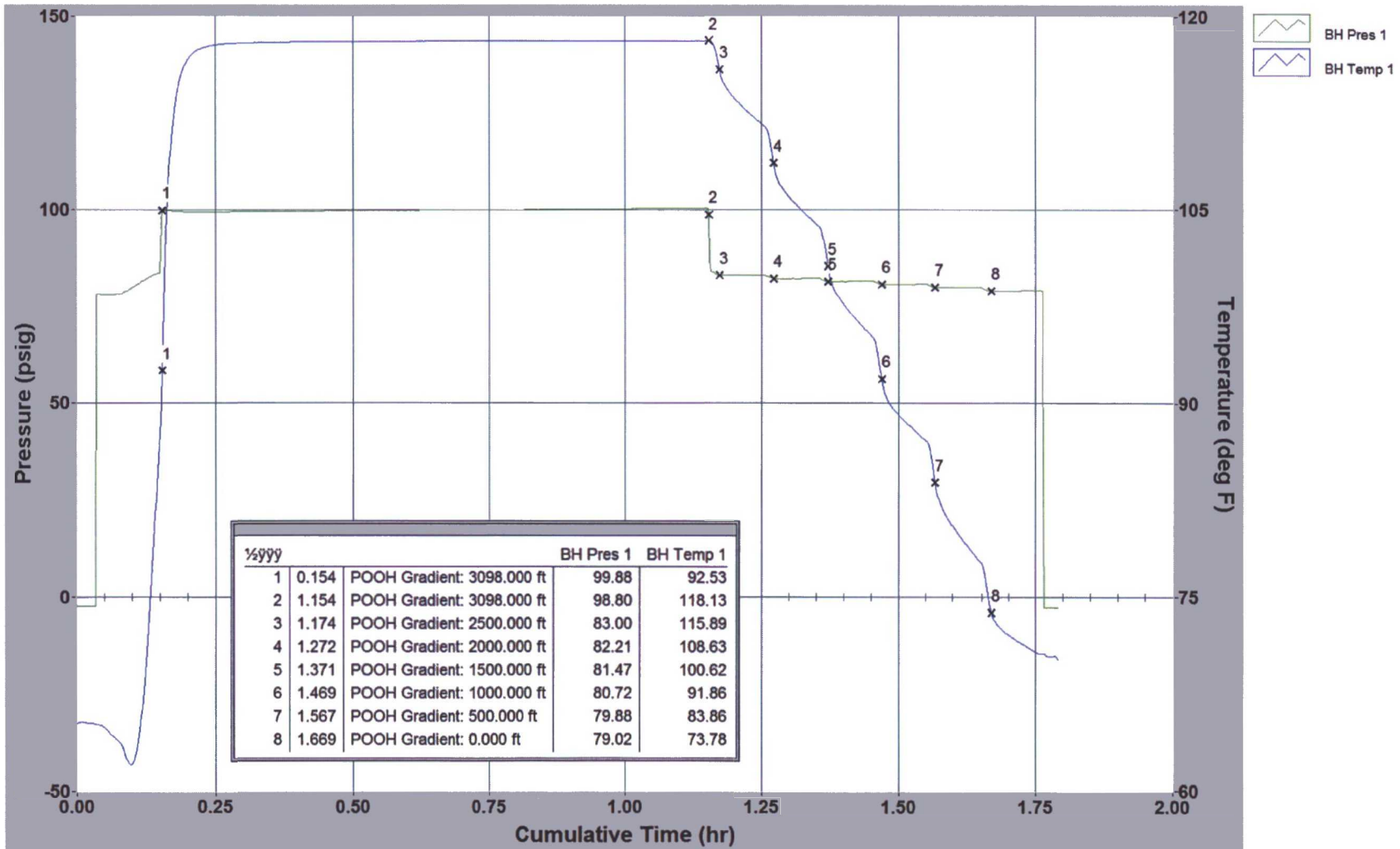
W1035 Depth vs. Temperature



Company Name ConocoPhillips
 Well Name Allison Unit #2 POW
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 Date(s) of Test 5/24/17



Allison Unit #2 POW



Company Name ConocoPhillips
Well Name Allison Unit #2 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/24/17



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/24	07:30:50	0.0000	-2.223	65.246
2017/05/24	07:31:20	0.0083	-2.264	65.343
2017/05/24	07:31:50	0.0167	-2.301	65.298
2017/05/24	07:32:20	0.0250	-2.296	65.266
2017/05/24	07:32:50	0.0333	-2.281	65.194
2017/05/24	07:33:20	0.0417	78.151	65.106
2017/05/24	07:33:50	0.0500	78.127	64.908
2017/05/24	07:34:20	0.0583	78.133	64.560
2017/05/24	07:34:50	0.0667	78.135	64.195
2017/05/24	07:35:20	0.0750	78.168	63.864
2017/05/24	07:35:50	0.0833	78.440	63.381
2017/05/24	07:36:20	0.0917	79.026	62.344
2017/05/24	07:36:50	0.1000	79.851	62.094
2017/05/24	07:37:20	0.1083	80.587	63.212
2017/05/24	07:37:50	0.1167	81.377	65.824
2017/05/24	07:38:20	0.1250	82.067	69.962
2017/05/24	07:38:50	0.1333	82.753	75.409
2017/05/24	07:39:20	0.1417	83.262	81.487
2017/05/24	07:39:50	0.1500	83.668	87.688
POOH Gradient: 3098.000 ft				
2017/05/24	07:40:05	0.1542	99.883	92.525
2017/05/24	07:40:20	0.1583	99.885	99.649
2017/05/24	07:40:50	0.1667	99.860	108.039
2017/05/24	07:41:20	0.1750	99.703	112.251
2017/05/24	07:41:50	0.1833	99.629	114.539
2017/05/24	07:42:20	0.1917	99.586	115.830
2017/05/24	07:42:50	0.2000	99.550	116.580
2017/05/24	07:43:20	0.2083	99.534	117.052
2017/05/24	07:43:50	0.2167	99.536	117.340
2017/05/24	07:44:20	0.2250	99.537	117.509
2017/05/24	07:44:50	0.2333	99.548	117.621
2017/05/24	07:45:20	0.2417	99.555	117.691
2017/05/24	07:45:50	0.2500	99.566	117.757
2017/05/24	07:46:20	0.2583	99.566	117.810
2017/05/24	07:46:50	0.2667	99.573	117.835
2017/05/24	07:47:20	0.2750	99.580	117.867
2017/05/24	07:47:50	0.2833	99.585	117.887
2017/05/24	07:48:20	0.2917	99.596	117.909
2017/05/24	07:48:50	0.3000	99.604	117.927
2017/05/24	07:49:20	0.3083	99.612	117.941
2017/05/24	07:49:50	0.3167	99.623	117.952
2017/05/24	07:50:20	0.3250	99.635	117.957
2017/05/24	07:50:50	0.3333	99.647	117.963
2017/05/24	07:51:20	0.3417	99.658	117.972
2017/05/24	07:51:50	0.3500	99.670	117.975
2017/05/24	07:52:20	0.3583	99.675	117.995
2017/05/24	07:52:50	0.3667	99.681	118.002
2017/05/24	07:53:20	0.3750	99.689	118.011
2017/05/24	07:53:50	0.3833	99.692	118.013
2017/05/24	07:54:20	0.3917	99.704	118.027
2017/05/24	07:54:50	0.4000	99.712	118.033
2017/05/24	07:55:20	0.4083	99.715	118.036
2017/05/24	07:55:50	0.4167	99.727	118.038
2017/05/24	07:56:20	0.4250	99.739	118.040

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/24	07:56:50	0.4333	99.751	118.042
2017/05/24	07:57:20	0.4417	99.754	118.042
2017/05/24	07:57:50	0.4500	99.785	118.044
2017/05/24	07:58:20	0.4583	99.791	118.045
2017/05/24	07:58:50	0.4667	99.794	118.044
2017/05/24	07:59:20	0.4750	99.806	118.045
2017/05/24	07:59:50	0.4833	99.809	118.047
2017/05/24	08:00:20	0.4917	99.812	118.054
2017/05/24	08:00:50	0.5000	99.818	118.051
2017/05/24	08:01:20	0.5083	99.827	118.056
2017/05/24	08:01:50	0.5167	99.839	118.060
2017/05/24	08:02:20	0.5250	99.845	118.060
2017/05/24	08:02:50	0.5333	99.851	118.051
2017/05/24	08:03:20	0.5417	99.860	118.056
2017/05/24	08:03:50	0.5500	99.875	118.060
2017/05/24	08:04:20	0.5583	99.875	118.063
2017/05/24	08:04:50	0.5667	99.884	118.063
2017/05/24	08:05:20	0.5750	99.896	118.065
2017/05/24	08:05:50	0.5833	99.908	118.069
2017/05/24	08:06:20	0.5917	99.918	118.062
2017/05/24	08:06:50	0.6000	99.927	118.058
2017/05/24	08:07:20	0.6083	99.933	118.067
2017/05/24	08:07:50	0.6167	99.941	118.074
2017/05/24	08:08:20	0.6250	99.960	118.071
2017/05/24	08:08:50	0.6333	99.962	118.078
2017/05/24	08:09:20	0.6417	99.959	118.078
2017/05/24	08:09:50	0.6500	99.972	118.078
2017/05/24	08:10:20	0.6583	100.009	118.072
2017/05/24	08:10:50	0.6667	100.008	118.080
2017/05/24	08:11:20	0.6750	100.005	118.080
2017/05/24	08:11:50	0.6833	100.011	118.085
2017/05/24	08:12:20	0.6917	100.026	118.085
2017/05/24	08:12:50	0.7000	100.032	118.089
2017/05/24	08:13:20	0.7083	100.041	118.090
2017/05/24	08:13:50	0.7167	100.047	118.090
2017/05/24	08:14:20	0.7250	100.050	118.092
2017/05/24	08:14:50	0.7333	100.056	118.090
2017/05/24	08:15:20	0.7417	100.062	118.089
2017/05/24	08:15:50	0.7500	100.065	118.090
2017/05/24	08:16:20	0.7583	100.065	118.089
2017/05/24	08:16:50	0.7667	100.075	118.089
2017/05/24	08:17:20	0.7750	100.096	118.087
2017/05/24	08:17:50	0.7833	100.105	118.089
2017/05/24	08:18:20	0.7917	100.114	118.094
2017/05/24	08:18:50	0.8000	100.117	118.096
2017/05/24	08:19:20	0.8083	100.126	118.099
2017/05/24	08:19:50	0.8167	100.141	118.094
2017/05/24	08:20:20	0.8250	100.151	118.089
2017/05/24	08:20:50	0.8333	100.157	118.094
2017/05/24	08:21:20	0.8417	100.159	118.098
2017/05/24	08:21:50	0.8500	100.166	118.096
2017/05/24	08:22:20	0.8583	100.169	118.096
2017/05/24	08:22:50	0.8667	100.177	118.105
2017/05/24	08:23:20	0.8750	100.184	118.094

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/24	08:23:50	0.8833	100.193	118.101
2017/05/24	08:24:20	0.8917	100.202	118.101
2017/05/24	08:24:50	0.9000	100.208	118.101
2017/05/24	08:25:20	0.9083	100.214	118.107
2017/05/24	08:25:50	0.9167	100.229	118.107
2017/05/24	08:26:20	0.9250	100.238	118.110
2017/05/24	08:26:50	0.9333	100.244	118.107
2017/05/24	08:27:20	0.9417	100.253	118.108
2017/05/24	08:27:50	0.9500	100.257	118.103
2017/05/24	08:28:20	0.9583	100.272	118.101
2017/05/24	08:28:50	0.9667	100.281	118.105
2017/05/24	08:29:20	0.9750	100.284	118.101
2017/05/24	08:29:50	0.9833	100.290	118.108
2017/05/24	08:30:20	0.9917	100.299	118.105
2017/05/24	08:30:50	1.0000	100.305	118.107
2017/05/24	08:31:20	1.0083	100.318	118.105
2017/05/24	08:31:50	1.0167	100.326	118.112
2017/05/24	08:32:20	1.0250	100.332	118.116
2017/05/24	08:32:50	1.0333	100.351	118.112
2017/05/24	08:33:20	1.0417	100.348	118.112
2017/05/24	08:33:50	1.0500	100.357	118.110
2017/05/24	08:34:20	1.0583	100.365	118.123
2017/05/24	08:34:50	1.0667	100.362	118.117
2017/05/24	08:35:20	1.0750	100.375	118.112
2017/05/24	08:35:50	1.0833	100.378	118.108
2017/05/24	08:36:20	1.0917	100.387	118.117
2017/05/24	08:36:50	1.1000	100.394	118.112
2017/05/24	08:37:20	1.1083	100.405	118.117
2017/05/24	08:37:50	1.1167	100.417	118.119
2017/05/24	08:38:20	1.1250	100.439	118.119
2017/05/24	08:38:50	1.1333	100.429	118.125
2017/05/24	08:39:20	1.1417	100.447	118.125
2017/05/24	08:39:50	1.1500	100.448	118.123
POOH Gradient: 3098.000 ft				
2017/05/24	08:40:05	1.1542	98.803	118.128
2017/05/24	08:40:20	1.1583	84.000	118.038
2017/05/24	08:40:50	1.1667	83.403	117.244
POOH Gradient: 2500.000 ft				
2017/05/24	08:41:15	1.1736	82.998	115.887
2017/05/24	08:41:20	1.1750	83.019	115.617
2017/05/24	08:41:50	1.1833	83.027	114.638
2017/05/24	08:42:20	1.1917	83.037	114.093
2017/05/24	08:42:50	1.2000	83.046	113.659
2017/05/24	08:43:20	1.2083	83.065	113.277
2017/05/24	08:43:50	1.2167	83.055	112.923
2017/05/24	08:44:20	1.2250	83.062	112.586
2017/05/24	08:44:50	1.2333	83.054	112.269
2017/05/24	08:45:20	1.2417	83.058	111.963
2017/05/24	08:45:50	1.2500	83.067	111.666
2017/05/24	08:46:20	1.2583	82.988	111.378
2017/05/24	08:46:50	1.2667	82.471	110.068
POOH Gradient: 2000.000 ft				
2017/05/24	08:47:10	1.2722	82.211	108.628
2017/05/24	08:47:20	1.2750	82.234	108.019

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/24	08:47:50	1.2833	82.183	107.033
2017/05/24	08:48:20	1.2917	82.203	106.470
2017/05/24	08:48:50	1.3000	82.230	106.016
2017/05/24	08:49:20	1.3083	82.251	105.624
2017/05/24	08:49:50	1.3167	82.237	105.260
2017/05/24	08:50:20	1.3250	82.251	104.907
2017/05/24	08:50:50	1.3333	82.265	104.567
2017/05/24	08:51:20	1.3417	82.265	104.238
2017/05/24	08:51:50	1.3500	82.280	103.914
2017/05/24	08:52:20	1.3583	82.129	103.541
2017/05/24	08:52:50	1.3667	81.619	101.824
POOH Gradient: 1500.000 ft				
2017/05/24	08:53:05	1.3708	81.474	100.625
2017/05/24	08:53:20	1.3750	81.453	99.700
2017/05/24	08:53:50	1.3833	81.447	98.767
2017/05/24	08:54:20	1.3917	81.493	98.177
2017/05/24	08:54:50	1.4000	81.485	97.677
2017/05/24	08:55:20	1.4083	81.501	97.232
2017/05/24	08:55:50	1.4167	81.530	96.807
2017/05/24	08:56:20	1.4250	81.521	96.404
2017/05/24	08:56:50	1.4333	81.526	96.012
2017/05/24	08:57:20	1.4417	81.550	95.630
2017/05/24	08:57:50	1.4500	81.562	95.265
2017/05/24	08:58:20	1.4583	81.392	94.714
2017/05/24	08:58:50	1.4667	80.800	92.689
POOH Gradient: 1000.000 ft				
2017/05/24	08:59:00	1.4694	80.718	91.864
2017/05/24	08:59:20	1.4750	80.638	90.783
2017/05/24	08:59:50	1.4833	80.642	90.019
2017/05/24	09:00:20	1.4917	80.681	89.519
2017/05/24	09:00:50	1.5000	80.714	89.110
2017/05/24	09:01:20	1.5083	80.729	88.738
2017/05/24	09:01:50	1.5167	80.727	88.390
2017/05/24	09:02:20	1.5250	80.755	88.057
2017/05/24	09:02:50	1.5333	80.759	87.728
2017/05/24	09:03:20	1.5417	80.774	87.404
2017/05/24	09:03:50	1.5500	80.806	87.091
2017/05/24	09:04:20	1.5583	80.360	86.221
POOH Gradient: 500.000 ft				
2017/05/24	09:04:50	1.5667	79.881	83.863
2017/05/24	09:05:20	1.5750	79.858	82.369
2017/05/24	09:05:50	1.5833	79.869	81.590
2017/05/24	09:06:20	1.5917	79.869	80.971
2017/05/24	09:06:50	1.6000	79.909	80.422
2017/05/24	09:07:20	1.6083	79.929	79.925
2017/05/24	09:07:50	1.6167	79.935	79.448
2017/05/24	09:08:20	1.6250	79.935	78.994
2017/05/24	09:08:50	1.6333	79.975	78.548
2017/05/24	09:09:20	1.6417	79.993	78.121
2017/05/24	09:09:50	1.6500	79.940	77.697
2017/05/24	09:10:20	1.6583	79.322	76.352
2017/05/24	09:10:50	1.6667	79.007	74.277
POOH Gradient: 0.000 ft				
2017/05/24	09:11:00	1.6694	79.018	73.783

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Date(s) of Test 5/24/17



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/24	09:11:20	1.6750	79.033	73.177
2017/05/24	09:11:50	1.6833	79.035	72.687
2017/05/24	09:12:20	1.6917	78.999	72.358
2017/05/24	09:12:50	1.7000	79.030	72.079
2017/05/24	09:13:20	1.7083	79.054	71.836
2017/05/24	09:13:50	1.7167	79.074	71.602
2017/05/24	09:14:20	1.7250	79.081	71.384
2017/05/24	09:14:50	1.7333	79.096	71.166
2017/05/24	09:15:20	1.7417	79.101	70.956
2017/05/24	09:15:50	1.7500	79.075	70.749
2017/05/24	09:16:20	1.7583	79.082	70.612
2017/05/24	09:16:50	1.7667	-2.642	70.569
2017/05/24	09:17:20	1.7750	-2.637	70.394
2017/05/24	09:17:50	1.7833	-2.669	70.453