

San Juan 31-6 Unit #220
API #30-039-24987
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 #220
Well Location	T31N, R6W, Sec. 33
Field and Pool	Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	2148-3280
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	
Casing Flange (CF)	
KB-CF	
Ground Level	
Plug Back Total Depth	
Total Depth	
Production Casing	5 1/2 to 3282
Production Tubing	2 3/8 to 3198

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/15/2017
Dead-weight Gauge Tubing Pressure	160
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/15/17 @0823
Date / Time off Bottom	5/15/17 @0923
Probe Serial Number	W1035
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3214

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	144.1 psig
Maximum Recorded Probe Temperature	109.2 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

ANMOC TA Expires
9-24-19

AV

Company Name ConocoPhillips
Well Name San Juan 31-6 Unit #220
Type of Test POOH Static Gradient
Date(s) of Test 5/15/2017



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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Date(s) of Test	5/15/2017



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 Impression Block and tagged fill @ 3246 WLM. RIH with BHP gauge to 3214 for 1 hour, then POOH making 5 minute stops as requested.

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Pressure vs. Depth

Probe Serial Number W1035

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
		3214.000	143.609	-	109.198	-
0823	0923	3214.000	144.055	-	91.324	-
0924	0929	3000.000	142.950	0.0052	109.114	-0.0831
0930	0935	2500.000	141.339	0.0032	106.939	0.0043
0936	0941	2000.000	139.659	0.0034	101.223	0.0114
0942	0947	1500.000	138.086	0.0031	94.390	0.0137
0948	0953	1000.000	136.543	0.0031	85.993	0.0168
0954	0959	500.000	134.935	0.0032	78.265	0.0155
1000	1005	0.000	133.271	0.0033	68.767	0.0190

Extrapolated to MPP:

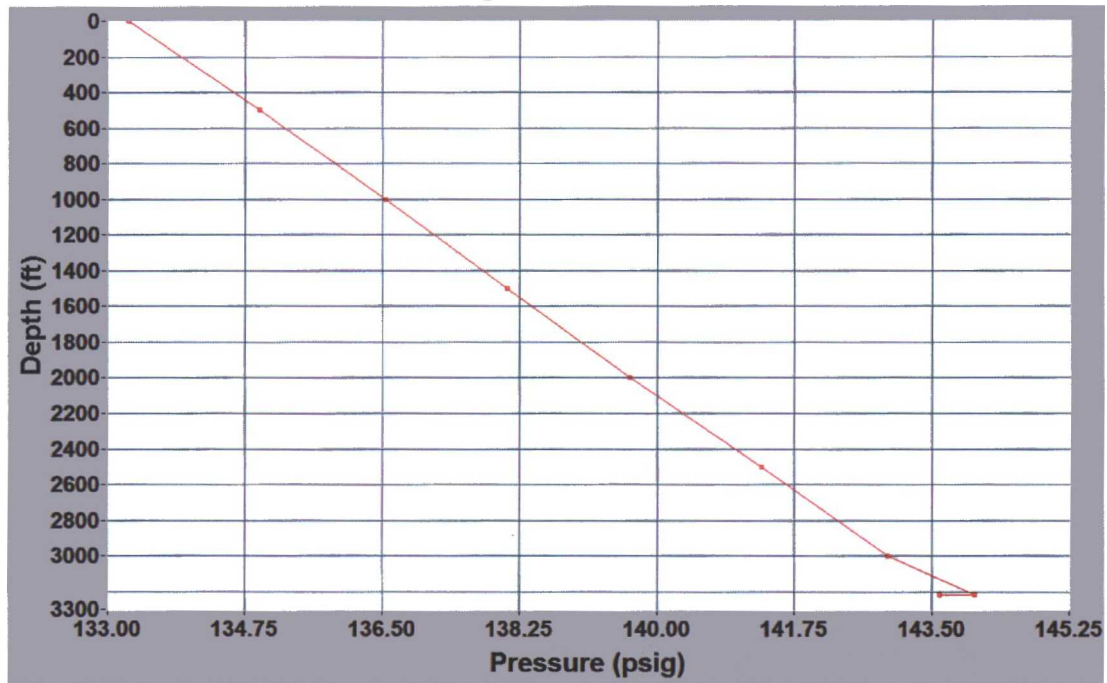
(ft)	(psig)	(deg F)
0.000		

Company Name ConocoPhillips
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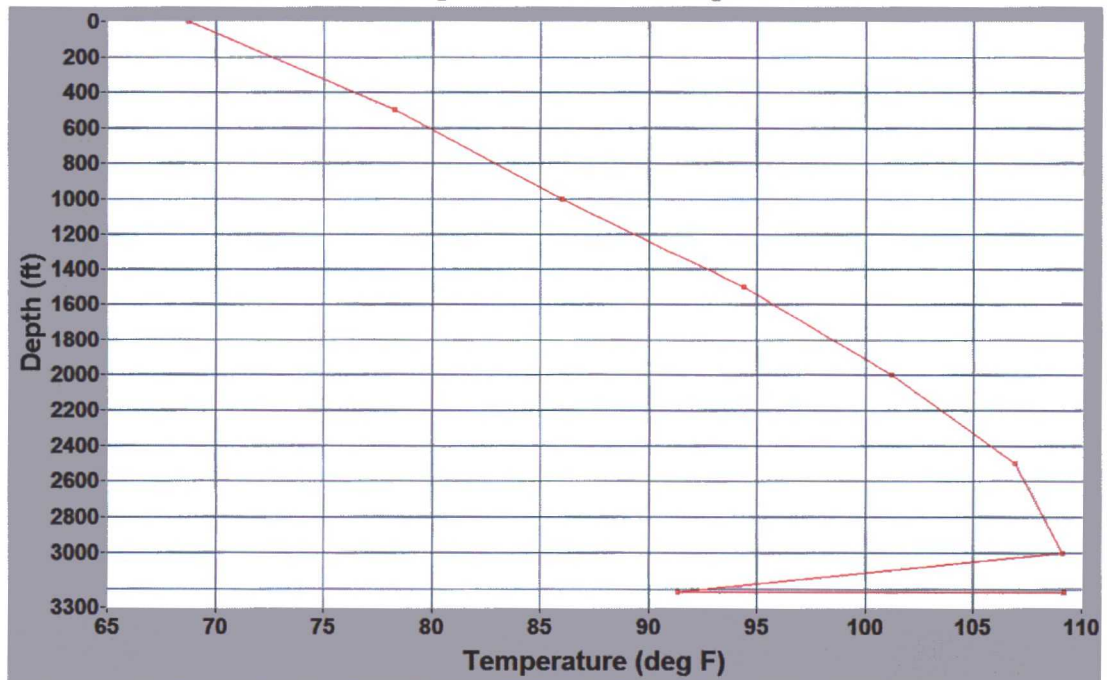


Probe Serial Number W1035

W1035 Depth vs. Pressure



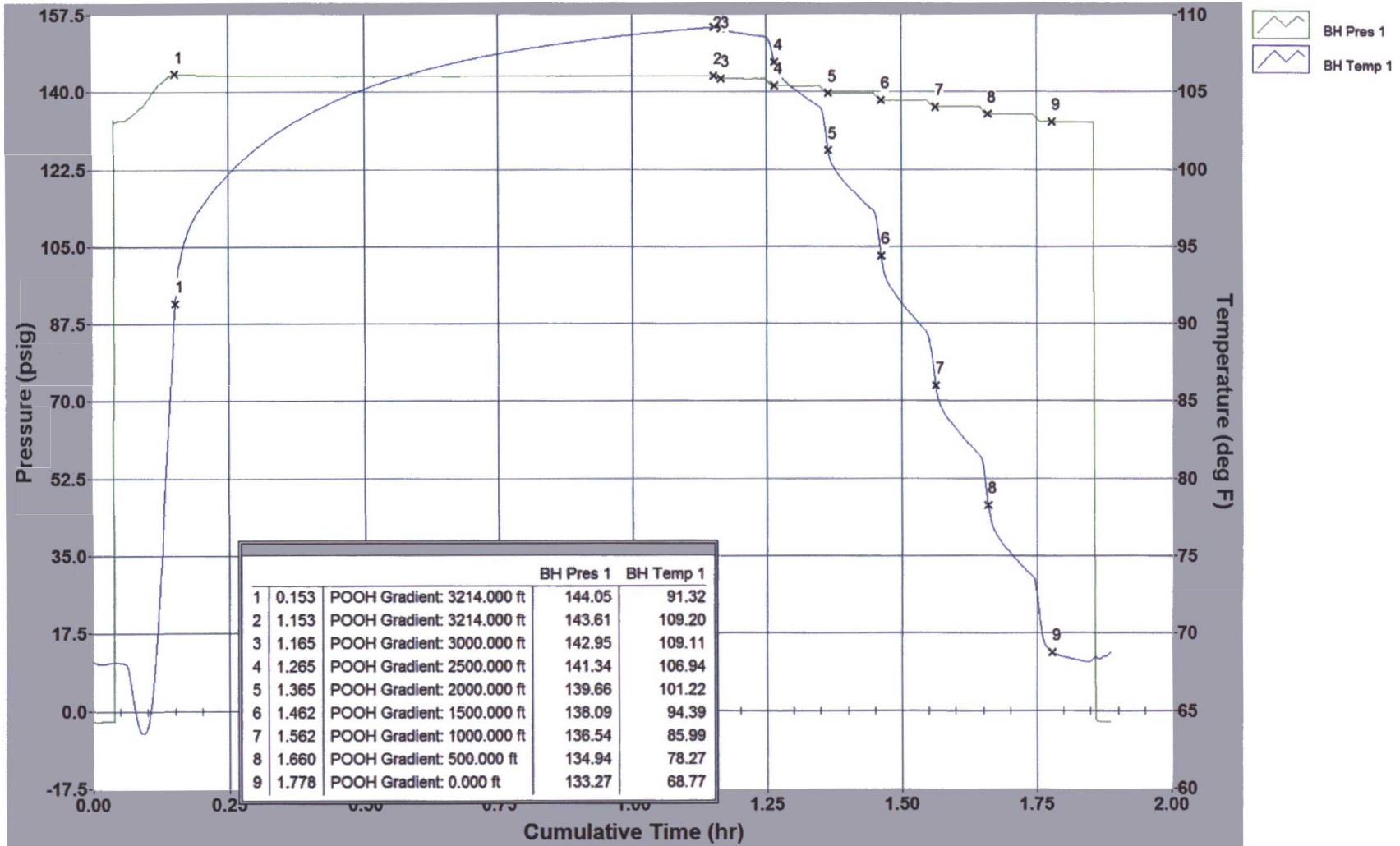
W1035 Depth vs. Temperature



Company Name ConocoPhillips
 Well Name San Juan 31-6 Unit #220
 Type of Test POOH Static Gradient
 Date(s) of Test 5/15/2017



San Juan 31-6 Unit #220



Company Name ConocoPhillips
Well Name San Juan 31-6 Unit #220
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	08:14:35	0.0000	-2.339	68.178
2017/05/15	08:15:05	0.0083	-2.301	68.081
2017/05/15	08:15:35	0.0167	-2.239	68.050
2017/05/15	08:16:05	0.0250	-2.230	68.085
2017/05/15	08:16:35	0.0333	-2.195	68.140
2017/05/15	08:17:05	0.0417	133.119	68.162
2017/05/15	08:17:35	0.0500	133.534	68.131
2017/05/15	08:18:05	0.0583	133.526	68.043
2017/05/15	08:18:35	0.0667	134.032	67.188
2017/05/15	08:19:05	0.0750	134.818	65.327
2017/05/15	08:19:35	0.0833	135.632	63.999
2017/05/15	08:20:05	0.0917	136.510	63.558
2017/05/15	08:20:35	0.1000	137.664	64.137
2017/05/15	08:21:05	0.1083	139.164	66.144
2017/05/15	08:21:35	0.1167	140.546	69.701
2017/05/15	08:22:05	0.1250	141.795	74.502
2017/05/15	08:22:35	0.1333	142.646	79.673
2017/05/15	08:23:05	0.1417	143.531	84.634
2017/05/15	08:23:35	0.1500	144.039	89.848
POOH Gradient: 3214.000 ft				
2017/05/15	08:23:45	0.1528	144.055	91.324
2017/05/15	08:24:05	0.1583	144.033	93.405
2017/05/15	08:24:35	0.1667	143.983	94.968
2017/05/15	08:25:05	0.1750	143.937	95.891
2017/05/15	08:25:35	0.1833	143.910	96.548
2017/05/15	08:26:05	0.1917	143.884	97.077
2017/05/15	08:26:35	0.2000	143.854	97.542
2017/05/15	08:27:05	0.2083	143.827	97.954
2017/05/15	08:27:35	0.2167	143.797	98.337
2017/05/15	08:28:05	0.2250	143.747	98.708
2017/05/15	08:28:35	0.2333	143.691	99.054
2017/05/15	08:29:05	0.2417	143.649	99.383
2017/05/15	08:29:35	0.2500	143.633	99.700
2017/05/15	08:30:05	0.2583	143.621	100.008
2017/05/15	08:30:35	0.2667	143.615	100.296
2017/05/15	08:31:05	0.2750	143.608	100.569
2017/05/15	08:31:35	0.2833	143.609	100.832
2017/05/15	08:32:05	0.2917	143.599	101.086
2017/05/15	08:32:35	0.3000	143.595	101.329
2017/05/15	08:33:05	0.3083	143.591	101.563
2017/05/15	08:33:35	0.3167	143.593	101.790
2017/05/15	08:34:05	0.3250	143.587	102.015
2017/05/15	08:34:35	0.3333	143.576	102.220
2017/05/15	08:35:05	0.3417	143.576	102.420
2017/05/15	08:35:35	0.3500	143.577	102.616
2017/05/15	08:36:05	0.3583	143.572	102.796
2017/05/15	08:36:35	0.3667	143.576	102.976
2017/05/15	08:37:05	0.3750	143.574	103.143
2017/05/15	08:37:35	0.3833	143.582	103.309
2017/05/15	08:38:05	0.3917	143.586	103.473
2017/05/15	08:38:35	0.4000	143.582	103.633
2017/05/15	08:39:05	0.4083	143.575	103.780
2017/05/15	08:39:35	0.4167	143.575	103.924
2017/05/15	08:40:05	0.4250	143.577	104.070

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	08:40:35	0.4333	143.570	104.211
2017/05/15	08:41:05	0.4417	143.567	104.347
2017/05/15	08:41:35	0.4500	143.554	104.481
2017/05/15	08:42:05	0.4583	143.560	104.603
2017/05/15	08:42:35	0.4667	143.560	104.734
2017/05/15	08:43:05	0.4750	143.569	104.850
2017/05/15	08:43:35	0.4833	143.563	104.963
2017/05/15	08:44:05	0.4917	143.563	105.080
2017/05/15	08:44:35	0.5000	143.557	105.188
2017/05/15	08:45:05	0.5083	143.564	105.294
2017/05/15	08:45:35	0.5167	143.555	105.399
2017/05/15	08:46:05	0.5250	143.559	105.490
2017/05/15	08:46:35	0.5333	143.574	105.593
2017/05/15	08:47:05	0.5417	143.575	105.685
2017/05/15	08:47:35	0.5500	143.573	105.777
2017/05/15	08:48:05	0.5583	143.565	105.867
2017/05/15	08:48:35	0.5667	143.562	105.958
2017/05/15	08:49:05	0.5750	143.563	106.047
2017/05/15	08:49:35	0.5833	143.555	106.129
2017/05/15	08:50:05	0.5917	143.562	106.207
2017/05/15	08:50:35	0.6000	143.558	106.286
2017/05/15	08:51:05	0.6083	143.556	106.356
2017/05/15	08:51:35	0.6167	143.563	106.439
2017/05/15	08:52:05	0.6250	143.564	106.515
2017/05/15	08:52:35	0.6333	143.569	106.581
2017/05/15	08:53:05	0.6417	143.561	106.657
2017/05/15	08:53:35	0.6500	143.553	106.729
2017/05/15	08:54:05	0.6583	143.548	106.804
2017/05/15	08:54:35	0.6667	143.553	106.869
2017/05/15	08:55:05	0.6750	143.551	106.932
2017/05/15	08:55:35	0.6833	143.559	106.997
2017/05/15	08:56:05	0.6917	143.557	107.062
2017/05/15	08:56:35	0.7000	143.568	107.130
2017/05/15	08:57:05	0.7083	143.564	107.181
2017/05/15	08:57:35	0.7167	143.571	107.240
2017/05/15	08:58:05	0.7250	143.567	107.299
2017/05/15	08:58:35	0.7333	143.575	107.353
2017/05/15	08:59:05	0.7417	143.573	107.415
2017/05/15	08:59:35	0.7500	143.572	107.463
2017/05/15	09:00:05	0.7583	143.571	107.514
2017/05/15	09:00:35	0.7667	143.567	107.566
2017/05/15	09:01:05	0.7750	143.566	107.622
2017/05/15	09:01:35	0.7833	143.567	107.674
2017/05/15	09:02:05	0.7917	143.563	107.722
2017/05/15	09:02:35	0.8000	143.565	107.771
2017/05/15	09:03:05	0.8083	143.564	107.811
2017/05/15	09:03:35	0.8167	143.566	107.861
2017/05/15	09:04:05	0.8250	143.568	107.908
2017/05/15	09:04:35	0.8333	143.570	107.949
2017/05/15	09:05:05	0.8417	143.572	107.994
2017/05/15	09:05:35	0.8500	143.568	108.032
2017/05/15	09:06:05	0.8583	143.579	108.084
2017/05/15	09:06:35	0.8667	143.578	108.124
2017/05/15	09:07:05	0.8750	143.577	108.162

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	09:07:35	0.8833	143.574	108.205
2017/05/15	09:08:05	0.8917	143.570	108.246
2017/05/15	09:08:35	0.9000	143.569	108.286
2017/05/15	09:09:05	0.9083	143.571	108.318
2017/05/15	09:09:35	0.9167	143.576	108.358
2017/05/15	09:10:05	0.9250	143.581	108.394
2017/05/15	09:10:35	0.9333	143.577	108.435
2017/05/15	09:11:05	0.9417	143.577	108.468
2017/05/15	09:11:35	0.9500	143.582	108.496
2017/05/15	09:12:05	0.9583	143.588	108.534
2017/05/15	09:12:35	0.9667	143.584	108.568
2017/05/15	09:13:05	0.9750	143.589	108.599
2017/05/15	09:13:35	0.9833	143.591	108.637
2017/05/15	09:14:05	0.9917	143.588	108.664
2017/05/15	09:14:35	1.0000	143.590	108.698
2017/05/15	09:15:05	1.0083	143.589	108.729
2017/05/15	09:15:35	1.0167	143.604	108.759
2017/05/15	09:16:05	1.0250	143.594	108.788
2017/05/15	09:16:35	1.0333	143.600	108.815
2017/05/15	09:17:05	1.0417	143.623	108.851
2017/05/15	09:17:35	1.0500	143.619	108.867
2017/05/15	09:18:05	1.0583	143.613	108.901
2017/05/15	09:18:35	1.0667	143.612	108.928
2017/05/15	09:19:05	1.0750	143.599	108.959
2017/05/15	09:19:35	1.0833	143.602	108.986
2017/05/15	09:20:05	1.0917	143.607	109.011
2017/05/15	09:20:35	1.1000	143.598	109.036
2017/05/15	09:21:05	1.1083	143.594	109.063
2017/05/15	09:21:35	1.1167	143.603	109.090
2017/05/15	09:22:05	1.1250	143.608	109.114
2017/05/15	09:22:35	1.1333	143.608	109.143
2017/05/15	09:23:05	1.1417	143.607	109.164
2017/05/15	09:23:35	1.1500	143.610	109.193
POOH Gradient: 3214.000 ft				
2017/05/15	09:23:45	1.1528	143.609	109.198
2017/05/15	09:24:05	1.1583	143.277	109.206
POOH Gradient: 3000.000 ft				
2017/05/15	09:24:30	1.1653	142.950	109.114
2017/05/15	09:24:35	1.1667	142.948	109.081
2017/05/15	09:25:05	1.1750	142.933	108.966
2017/05/15	09:25:35	1.1833	142.922	108.907
2017/05/15	09:26:05	1.1917	142.914	108.853
2017/05/15	09:26:35	1.2000	142.906	108.810
2017/05/15	09:27:05	1.2083	142.904	108.759
2017/05/15	09:27:35	1.2167	142.899	108.716
2017/05/15	09:28:05	1.2250	142.906	108.676
2017/05/15	09:28:35	1.2333	142.904	108.637
2017/05/15	09:29:05	1.2417	142.905	108.586
2017/05/15	09:29:35	1.2500	142.797	108.547
2017/05/15	09:30:05	1.2583	141.670	108.023
POOH Gradient: 2500.000 ft				
2017/05/15	09:30:30	1.2653	141.339	106.939
2017/05/15	09:30:35	1.2667	141.330	106.738
2017/05/15	09:31:05	1.2750	141.320	106.070

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/15	09:31:35	1.2833	141.287	105.735
2017/05/15	09:32:05	1.2917	141.276	105.471
2017/05/15	09:32:35	1.3000	141.265	105.229
2017/05/15	09:33:05	1.3083	141.262	105.004
2017/05/15	09:33:35	1.3167	141.259	104.797
2017/05/15	09:34:05	1.3250	141.271	104.590
2017/05/15	09:34:35	1.3333	141.271	104.391
2017/05/15	09:35:05	1.3417	141.276	104.191
2017/05/15	09:35:35	1.3500	141.129	104.007
2017/05/15	09:36:05	1.3583	140.008	102.931
POOH Gradient: 2000.000 ft				
2017/05/15	09:36:30	1.3653	139.659	101.223
2017/05/15	09:36:35	1.3667	139.665	100.974
2017/05/15	09:37:05	1.3750	139.657	100.153
2017/05/15	09:37:35	1.3833	139.661	99.698
2017/05/15	09:38:05	1.3917	139.665	99.320
2017/05/15	09:38:35	1.4000	139.674	98.991
2017/05/15	09:39:05	1.4083	139.688	98.679
2017/05/15	09:39:35	1.4167	139.689	98.382
2017/05/15	09:40:05	1.4250	139.697	98.089
2017/05/15	09:40:35	1.4333	139.698	97.810
2017/05/15	09:41:05	1.4417	139.699	97.536
2017/05/15	09:41:35	1.4500	139.410	97.237
2017/05/15	09:42:05	1.4583	138.342	95.608
POOH Gradient: 1500.000 ft				
2017/05/15	09:42:20	1.4625	138.086	94.390
2017/05/15	09:42:35	1.4667	138.115	93.484
2017/05/15	09:43:05	1.4750	138.091	92.655
2017/05/15	09:43:35	1.4833	138.110	92.145
2017/05/15	09:44:05	1.4917	138.108	91.722
2017/05/15	09:44:35	1.5000	138.119	91.337
2017/05/15	09:45:05	1.5083	138.127	90.970
2017/05/15	09:45:35	1.5167	138.133	90.626
2017/05/15	09:46:05	1.5250	138.146	90.284
2017/05/15	09:46:35	1.5333	138.155	89.956
2017/05/15	09:47:05	1.5417	138.169	89.636
2017/05/15	09:47:35	1.5500	137.711	89.159
2017/05/15	09:48:05	1.5583	136.721	87.186
POOH Gradient: 1000.000 ft				
2017/05/15	09:48:20	1.5625	136.543	85.993
2017/05/15	09:48:35	1.5667	136.540	85.190
2017/05/15	09:49:05	1.5750	136.558	84.441
2017/05/15	09:49:35	1.5833	136.569	83.962
2017/05/15	09:50:05	1.5917	136.572	83.563
2017/05/15	09:50:35	1.6000	136.556	83.192
2017/05/15	09:51:05	1.6083	136.566	82.852
2017/05/15	09:51:35	1.6167	136.586	82.521
2017/05/15	09:52:05	1.6250	136.589	82.197
2017/05/15	09:52:35	1.6333	136.591	81.887
2017/05/15	09:53:05	1.6417	136.596	81.579
2017/05/15	09:53:35	1.6500	136.004	81.045
2017/05/15	09:54:05	1.6583	134.963	78.690
POOH Gradient: 500.000 ft				
2017/05/15	09:54:10	1.6597	134.935	78.265

Company Name ConocoPhillips
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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	09:54:35	1.6667	134.950	77.023
2017/05/15	09:55:05	1.6750	134.928	76.384
2017/05/15	09:55:35	1.6833	134.942	75.943
2017/05/15	09:56:05	1.6917	134.963	75.556
2017/05/15	09:56:35	1.7000	134.969	75.213
2017/05/15	09:57:05	1.7083	134.966	74.881
2017/05/15	09:57:35	1.7167	134.971	74.561
2017/05/15	09:58:05	1.7250	134.978	74.253
2017/05/15	09:58:35	1.7333	134.985	73.949
2017/05/15	09:59:05	1.7417	134.986	73.659
2017/05/15	09:59:35	1.7500	133.995	72.585
2017/05/15	10:00:05	1.7583	133.339	70.309
2017/05/15	10:00:35	1.7667	133.285	69.168
2017/05/15	10:01:05	1.7750	133.272	68.833
POOH Gradient: 0.000 ft				
2017/05/15	10:01:15	1.7778	133.271	68.767
2017/05/15	10:01:35	1.7833	133.266	68.670
2017/05/15	10:02:05	1.7917	133.259	68.567
2017/05/15	10:02:35	1.8000	133.259	68.475
2017/05/15	10:03:05	1.8083	133.255	68.401
2017/05/15	10:03:35	1.8167	133.256	68.340
2017/05/15	10:04:05	1.8250	133.264	68.275
2017/05/15	10:04:35	1.8333	133.259	68.216
2017/05/15	10:05:05	1.8417	133.260	68.157
2017/05/15	10:05:35	1.8500	133.243	68.196
2017/05/15	10:06:05	1.8583	12.575	68.479
2017/05/15	10:06:35	1.8667	-2.412	68.338
2017/05/15	10:07:05	1.8750	-2.450	68.518
2017/05/15	10:07:35	1.8833	-2.468	68.664