

Pressure Test Report

COMPANY INFORMATION

Company Name	ConocoPhillips
Representative	Priscilla Shorty
Phone	
Fax	
Address	

OIL CONS. DIV DIST. 3

MAY 18 2016

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

WELL INFORMATION

Well Name	San Juan 30-5 Unit 213
Well Location	T30N, R5W, Sec. 5
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	3172-3292
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	
Casing Flange (CF)	
KB-CF	
Ground Level	6492
Plug Back Total Depth	
Total Depth	3295
Production Casing	
Production Tubing	2 3/8 to 3022

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/11/2016
Dead-weight Gauge Tubing Pressure	215
Dead-weight Gauge Casing Pressure	0
Shut-in Date (Duration)	
Date / Time on Bottom	5/11/2016 @0924
Date / Time off Bottom	5/11/2016 @1024
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3208

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	234.5 psig
Maximum Recorded Probe Temperature	112.1 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

Company Name ConocoPhillips
Well Name San Juan 30-5 Unit 213
Type of Test POOH Static Gradient
Date(s) of Test 5/11/2016



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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Type of Test	POOH Static Gradient
Date(s) of Test	5/11/2016



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @ 3213 WLM. RIH with BHP gauge to 3208 WLM for 1 hour, then POOH making 5 minute gradient stops as requested.

Company Name ConocoPhillips
 Well Name San Juan 30-5 Unit 213
 Type of Test POOH Static Gradient
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Pressure vs. Depth

Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
		3208.000	234.527	-	112.123	-
0924	1024	3208.000	233.724	-	96.661	-
1024	1029	3000.000	233.711	0.0001	112.060	-0.0740
1030	1035	2500.000	230.936	0.0055	109.222	0.0057
1036	1041	2000.000	228.184	0.0055	102.074	0.0143
1042	1047	1500.000	225.573	0.0052	93.339	0.0175
1048	1053	1000.000	222.948	0.0053	83.975	0.0187
1054	1059	500.000	220.312	0.0053	75.045	0.0179
1100	1105	0.000	217.801	0.0050	68.446	0.0132

Extrapolated to MPP:

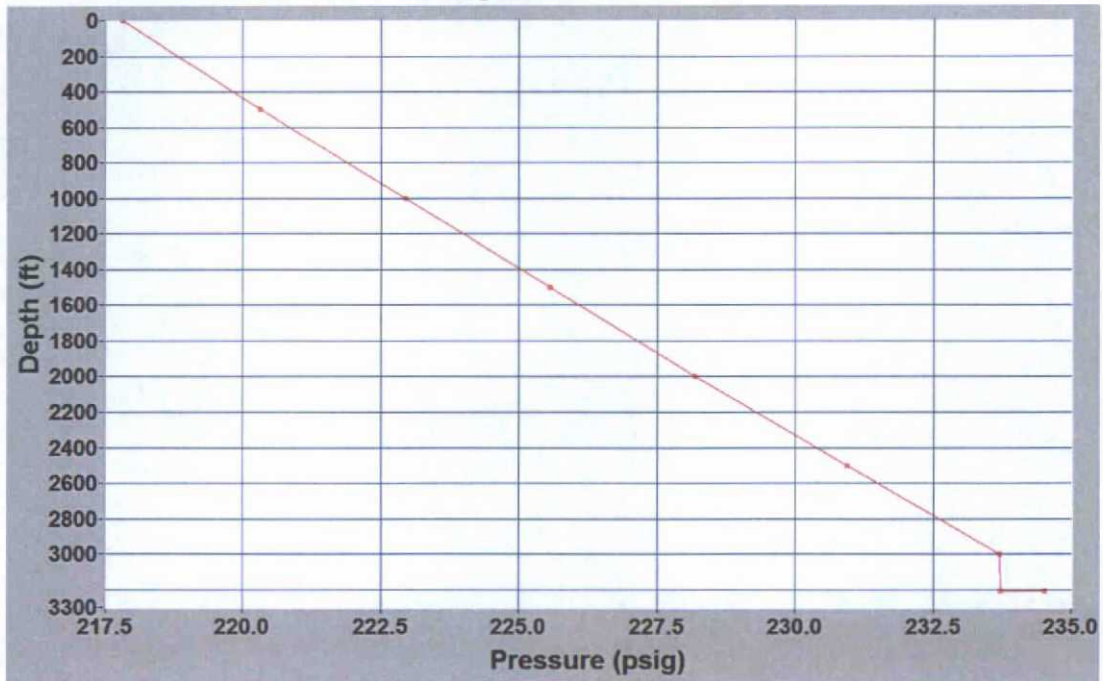
(ft)	(psig)	(deg F)
0.000		

Company Name ConocoPhillips
Well Name San Juan 30-5 Unit 213
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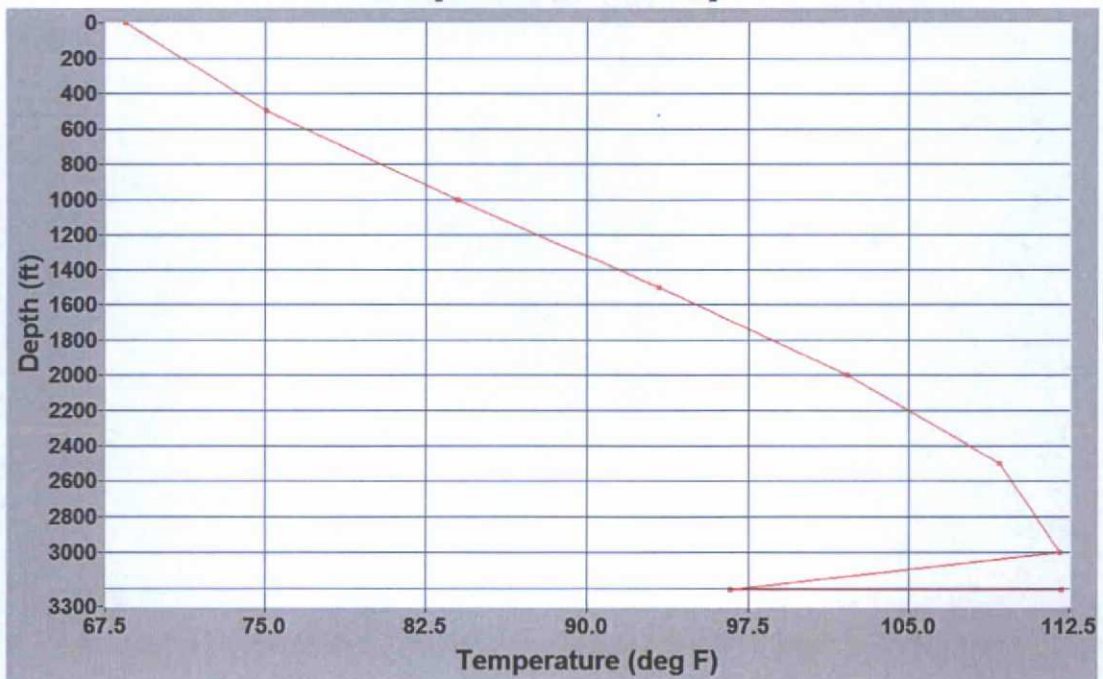


Probe Serial Number W1036

W1036 Depth vs. Pressure



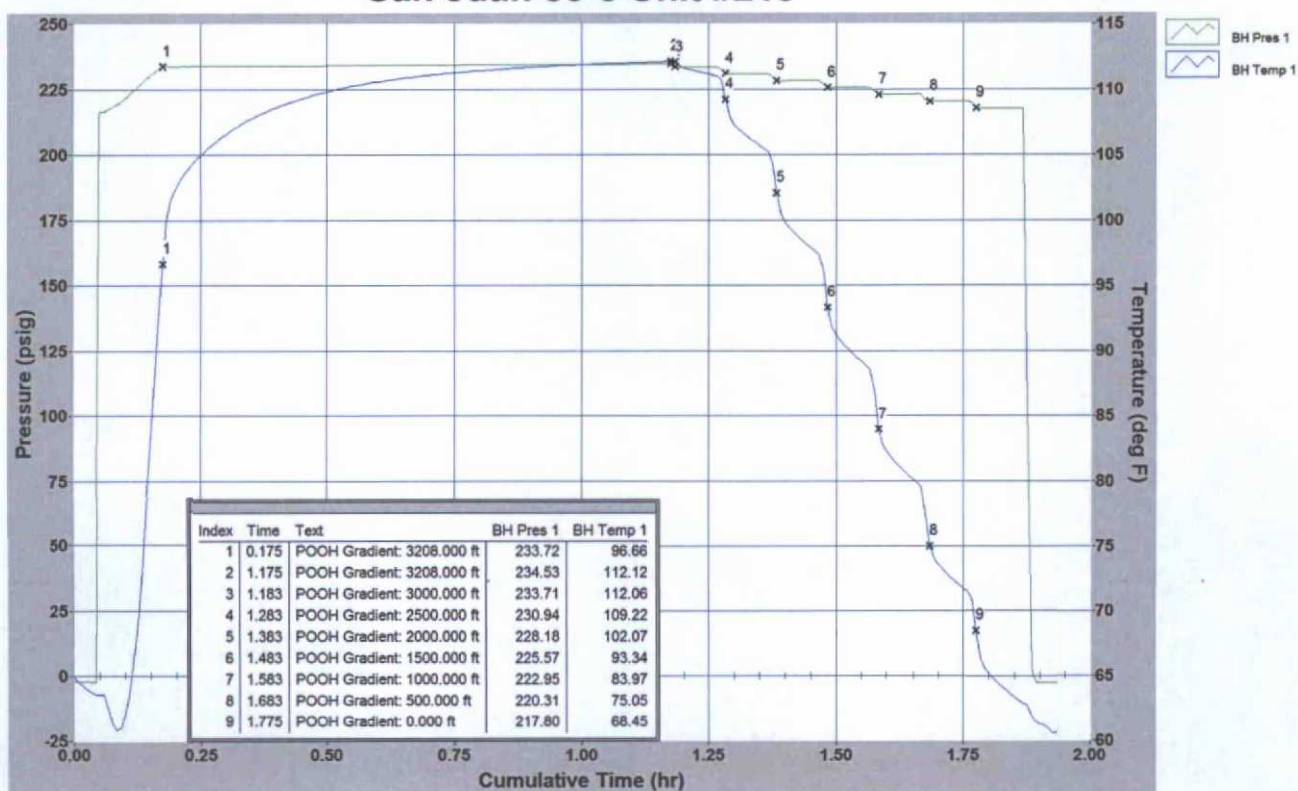
W1036 Depth vs. Temperature



Company Name ConocoPhillips
 Well Name San Juan 30-5 Unit 213
 Type of Test POOH Static Gradient
 Date(s) of Test 5/11/2016



San Juan 30-5 Unit #213



Company Name ConocoPhillips
Well Name San Juan 30-5 Unit 213
Type of Test POOH Static Gradient
Date(s) of Test 5/11/2016



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/12	09:13:30	0.0000	-1.934	64.904
2016/05/12	09:14:00	0.0083	-2.013	64.558
2016/05/12	09:14:30	0.0167	-2.089	64.256
2016/05/12	09:15:00	0.0250	-2.050	64.013
2016/05/12	09:15:30	0.0333	-2.117	63.774
2016/05/12	09:16:00	0.0417	-2.152	63.610
2016/05/12	09:16:30	0.0500	216.379	63.594
2016/05/12	09:17:00	0.0583	216.381	63.581
2016/05/12	09:17:30	0.0667	217.159	62.470
2016/05/12	09:18:00	0.0750	217.997	61.336
2016/05/12	09:18:30	0.0833	219.030	60.814
2016/05/12	09:19:00	0.0917	220.064	61.032
2016/05/12	09:19:30	0.1000	221.403	62.049
2016/05/12	09:20:00	0.1083	222.681	63.689
2016/05/12	09:20:30	0.1167	224.159	66.051
2016/05/12	09:21:00	0.1250	225.768	69.199
2016/05/12	09:21:30	0.1333	227.210	72.963
2016/05/12	09:22:00	0.1417	228.697	77.374
2016/05/12	09:22:30	0.1500	230.161	82.049
2016/05/12	09:23:00	0.1583	231.320	86.781
2016/05/12	09:23:30	0.1667	232.641	91.722
POOH Gradient: 3208.000 ft				
2016/05/12	09:24:00	0.1750	233.724	96.661
2016/05/12	09:24:30	0.1833	233.737	100.126
2016/05/12	09:25:00	0.1917	233.700	101.548
2016/05/12	09:25:30	0.2000	233.719	102.376
2016/05/12	09:26:00	0.2083	233.702	102.972
2016/05/12	09:26:30	0.2167	233.745	103.465
2016/05/12	09:27:00	0.2250	233.719	103.899
2016/05/12	09:27:30	0.2333	233.732	104.274
2016/05/12	09:28:00	0.2417	233.763	104.625
2016/05/12	09:28:30	0.2500	233.733	104.956
2016/05/12	09:29:00	0.2583	233.757	105.271
2016/05/12	09:29:30	0.2667	233.740	105.555
2016/05/12	09:30:00	0.2750	233.764	105.834
2016/05/12	09:30:30	0.2833	233.761	106.088
2016/05/12	09:31:00	0.2917	233.780	106.324
2016/05/12	09:31:30	0.3000	233.800	106.558
2016/05/12	09:32:00	0.3083	233.819	106.777
2016/05/12	09:32:30	0.3167	233.836	106.984
2016/05/12	09:33:00	0.3250	233.828	107.193
2016/05/12	09:33:30	0.3333	233.843	107.373
2016/05/12	09:34:00	0.3417	233.858	107.551
2016/05/12	09:34:30	0.3500	233.872	107.724
2016/05/12	09:35:00	0.3583	233.812	107.888
2016/05/12	09:35:30	0.3667	233.828	108.045
2016/05/12	09:36:00	0.3750	233.845	108.192
2016/05/12	09:36:30	0.3833	233.857	108.336
2016/05/12	09:37:00	0.3917	233.867	108.473
2016/05/12	09:37:30	0.4000	233.877	108.601
2016/05/12	09:38:00	0.4083	233.890	108.730
2016/05/12	09:38:30	0.4167	233.901	108.846
2016/05/12	09:39:00	0.4250	233.910	108.964
2016/05/12	09:39:30	0.4333	233.918	109.074

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/12	09:40:00	0.4417	233.928	109.177
2016/05/12	09:40:30	0.4500	233.938	109.274
2016/05/12	09:41:00	0.4583	233.948	109.369
2016/05/12	09:41:30	0.4667	233.960	109.467
2016/05/12	09:42:00	0.4750	233.970	109.560
2016/05/12	09:42:30	0.4833	233.975	109.647
2016/05/12	09:43:00	0.4917	233.980	109.724
2016/05/12	09:43:30	0.5000	233.992	109.809
2016/05/12	09:44:00	0.5083	233.996	109.882
2016/05/12	09:44:30	0.5167	234.006	109.954
2016/05/12	09:45:00	0.5250	234.012	110.037
2016/05/12	09:45:30	0.5333	234.021	110.100
2016/05/12	09:46:00	0.5417	234.028	110.169
2016/05/12	09:46:30	0.5500	234.036	110.226
2016/05/12	09:47:00	0.5583	234.046	110.293
2016/05/12	09:47:30	0.5667	234.051	110.349
2016/05/12	09:48:00	0.5750	234.080	110.406
2016/05/12	09:48:30	0.5833	234.072	110.469
2016/05/12	09:49:00	0.5917	234.080	110.516
2016/05/12	09:49:30	0.6000	234.085	110.565
2016/05/12	09:50:00	0.6083	234.087	110.617
2016/05/12	09:50:30	0.6167	234.091	110.658
2016/05/12	09:51:00	0.6250	234.096	110.709
2016/05/12	09:51:30	0.6333	234.104	110.755
2016/05/12	09:52:00	0.6417	234.111	110.795
2016/05/12	09:52:30	0.6500	234.118	110.840
2016/05/12	09:53:00	0.6583	234.122	110.876
2016/05/12	09:53:30	0.6667	234.128	110.916
2016/05/12	09:54:00	0.6750	234.135	110.957
2016/05/12	09:54:30	0.6833	234.143	111.000
2016/05/12	09:55:00	0.6917	234.155	111.036
2016/05/12	09:55:30	0.7000	234.160	111.063
2016/05/12	09:56:00	0.7083	234.166	111.097
2016/05/12	09:56:30	0.7167	234.173	111.130
2016/05/12	09:57:00	0.7250	234.213	111.164
2016/05/12	09:57:30	0.7333	234.216	111.193
2016/05/12	09:58:00	0.7417	234.222	111.231
2016/05/12	09:58:30	0.7500	234.228	111.256
2016/05/12	09:59:00	0.7583	234.233	111.277
2016/05/12	09:59:30	0.7667	234.238	111.306
2016/05/12	10:00:00	0.7750	234.244	111.333
2016/05/12	10:00:30	0.7833	234.249	111.355
2016/05/12	10:01:00	0.7917	234.255	111.391
2016/05/12	10:01:30	0.8000	234.261	111.416
2016/05/12	10:02:00	0.8083	234.266	111.436
2016/05/12	10:02:30	0.8167	234.271	111.463
2016/05/12	10:03:00	0.8250	234.276	111.477
2016/05/12	10:03:30	0.8333	234.281	111.506
2016/05/12	10:04:00	0.8417	234.295	111.531
2016/05/12	10:04:30	0.8500	234.299	111.542
2016/05/12	10:05:00	0.8583	234.305	111.571
2016/05/12	10:05:30	0.8667	234.324	111.592
2016/05/12	10:06:00	0.8750	234.326	111.616
2016/05/12	10:06:30	0.8833	234.331	111.636

Company Name ConocoPhillips
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Date(s) of Test 5/11/2016



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/12	10:07:00	0.8917	234.349	111.650
2016/05/12	10:07:30	0.9000	234.355	111.677
2016/05/12	10:08:00	0.9083	234.359	111.693
2016/05/12	10:08:30	0.9167	234.364	111.711
2016/05/12	10:09:00	0.9250	234.369	111.733
2016/05/12	10:09:30	0.9333	234.370	111.744
2016/05/12	10:10:00	0.9417	234.375	111.765
2016/05/12	10:10:30	0.9500	234.379	111.776
2016/05/12	10:11:00	0.9583	234.384	111.801
2016/05/12	10:11:30	0.9667	234.388	111.812
2016/05/12	10:12:00	0.9750	234.393	111.828
2016/05/12	10:12:30	0.9833	234.398	111.846
2016/05/12	10:13:00	0.9917	234.401	111.853
2016/05/12	10:13:30	1.0000	234.426	111.873
2016/05/12	10:14:00	1.0083	234.430	111.889
2016/05/12	10:14:30	1.0167	234.434	111.895
2016/05/12	10:15:00	1.0250	234.438	111.915
2016/05/12	10:15:30	1.0333	234.443	111.931
2016/05/12	10:16:00	1.0417	234.447	111.942
2016/05/12	10:16:30	1.0500	234.451	111.960
2016/05/12	10:17:00	1.0583	234.477	111.963
2016/05/12	10:17:30	1.0667	234.481	111.978
2016/05/12	10:18:00	1.0750	234.486	111.992
2016/05/12	10:18:30	1.0833	234.484	111.999
2016/05/12	10:19:00	1.0917	234.488	112.012
2016/05/12	10:19:30	1.1000	234.500	112.023
2016/05/12	10:20:00	1.1083	234.502	112.037
2016/05/12	10:20:30	1.1167	234.505	112.044
2016/05/12	10:21:00	1.1250	234.509	112.051
2016/05/12	10:21:30	1.1333	234.510	112.069
2016/05/12	10:22:00	1.1417	234.512	112.080
2016/05/12	10:22:30	1.1500	234.516	112.091
2016/05/12	10:23:00	1.1583	234.520	112.104
2016/05/12	10:23:30	1.1667	234.523	112.107
POOH Gradient: 3208.000 ft				
2016/05/12	10:24:00	1.1750	234.527	112.123
POOH Gradient: 3000.000 ft				
2016/05/12	10:24:30	1.1833	233.711	112.060
2016/05/12	10:25:00	1.1917	233.437	111.749
2016/05/12	10:25:30	1.2000	233.421	111.619
2016/05/12	10:26:00	1.2083	233.412	111.528
2016/05/12	10:26:30	1.2167	233.406	111.447
2016/05/12	10:27:00	1.2250	233.401	111.362
2016/05/12	10:27:30	1.2333	233.404	111.285
2016/05/12	10:28:00	1.2417	233.400	111.211
2016/05/12	10:28:30	1.2500	233.435	111.144
2016/05/12	10:29:00	1.2583	233.430	111.069
2016/05/12	10:29:30	1.2667	233.425	110.995
2016/05/12	10:30:00	1.2750	232.383	110.682
POOH Gradient: 2500.000 ft				
2016/05/12	10:30:30	1.2833	230.936	109.222
2016/05/12	10:31:00	1.2917	230.798	107.800
2016/05/12	10:31:30	1.3000	230.749	107.285
2016/05/12	10:32:00	1.3083	230.720	106.948

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/12	10:32:30	1.3167	230.696	106.662
2016/05/12	10:33:00	1.3250	230.717	106.398
2016/05/12	10:33:30	1.3333	230.729	106.144
2016/05/12	10:34:00	1.3417	230.710	105.904
2016/05/12	10:34:30	1.3500	230.741	105.667
2016/05/12	10:35:00	1.3583	230.724	105.451
2016/05/12	10:35:30	1.3667	230.706	105.226
2016/05/12	10:36:00	1.3750	229.563	104.400
POOH Gradient: 2000.000 ft				
2016/05/12	10:36:30	1.3833	228.184	102.074
2016/05/12	10:37:00	1.3917	228.070	100.405
2016/05/12	10:37:30	1.4000	228.086	99.806
2016/05/12	10:38:00	1.4083	228.088	99.397
2016/05/12	10:38:30	1.4167	228.124	99.055
2016/05/12	10:39:00	1.4250	228.123	98.746
2016/05/12	10:39:30	1.4333	228.101	98.442
2016/05/12	10:40:00	1.4417	228.132	98.150
2016/05/12	10:40:30	1.4500	228.145	97.875
2016/05/12	10:41:00	1.4583	228.126	97.608
2016/05/12	10:41:30	1.4667	228.199	97.345
2016/05/12	10:42:00	1.4750	226.725	96.116
POOH Gradient: 1500.000 ft				
2016/05/12	10:42:30	1.4833	225.573	93.339
2016/05/12	10:43:00	1.4917	225.477	91.821
2016/05/12	10:43:30	1.5000	225.548	91.211
2016/05/12	10:44:00	1.5083	225.539	90.781
2016/05/12	10:44:30	1.5167	225.526	90.417
2016/05/12	10:45:00	1.5250	225.532	90.075
2016/05/12	10:45:30	1.5333	225.553	89.753
2016/05/12	10:46:00	1.5417	225.542	89.445
2016/05/12	10:46:30	1.5500	225.594	89.145
2016/05/12	10:47:00	1.5583	225.582	88.851
2016/05/12	10:47:30	1.5667	225.490	88.569
2016/05/12	10:48:00	1.5750	223.873	86.846
POOH Gradient: 1000.000 ft				
2016/05/12	10:48:30	1.5833	222.948	83.975
2016/05/12	10:49:00	1.5917	222.923	82.760
2016/05/12	10:49:30	1.6000	222.891	82.202
2016/05/12	10:50:00	1.6083	222.895	81.790
2016/05/12	10:50:30	1.6167	222.926	81.415
2016/05/12	10:51:00	1.6250	222.911	81.075
2016/05/12	10:51:30	1.6333	222.959	80.753
2016/05/12	10:52:00	1.6417	222.943	80.449
2016/05/12	10:52:30	1.6500	222.927	80.148
2016/05/12	10:53:00	1.6583	222.962	79.875
2016/05/12	10:53:30	1.6667	222.810	79.587
2016/05/12	10:54:00	1.6750	220.807	77.641
POOH Gradient: 500.000 ft				
2016/05/12	10:54:30	1.6833	220.312	75.045
2016/05/12	10:55:00	1.6917	220.266	74.138
2016/05/12	10:55:30	1.7000	220.276	73.652
2016/05/12	10:56:00	1.7083	220.296	73.269
2016/05/12	10:56:30	1.7167	220.280	72.927
2016/05/12	10:57:00	1.7250	220.334	72.612

Company Name ConocoPhillips
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 Type of Test POOH Static Gradient
 Date(s) of Test 5/11/2016



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2016/05/12	10:57:30	1.7333	220.321	72.309
2016/05/12	10:58:00	1.7417	220.327	72.023
2016/05/12	10:58:30	1.7500	220.314	71.726
2016/05/12	10:59:00	1.7583	220.303	71.443
2016/05/12	10:59:30	1.7667	219.487	70.860
POOH Gradient: 0.000 ft				
2016/05/12	11:00:00	1.7750	217.801	68.446
2016/05/12	11:00:30	1.7833	217.524	66.358
2016/05/12	11:01:00	1.7917	217.493	65.619
2016/05/12	11:01:30	1.8000	217.477	65.185
2016/05/12	11:02:00	1.8083	217.461	64.830
2016/05/12	11:02:30	1.8167	217.465	64.512
2016/05/12	11:03:00	1.8250	217.454	64.209
2016/05/12	11:03:30	1.8333	217.445	63.934
2016/05/12	11:04:00	1.8417	217.436	63.658
2016/05/12	11:04:30	1.8500	217.427	63.397
2016/05/12	11:05:00	1.8583	217.418	63.145
2016/05/12	11:05:30	1.8667	217.408	62.902
2016/05/12	11:06:00	1.8750	103.442	62.766
2016/05/12	11:06:30	1.8833	2.074	61.894
2016/05/12	11:07:00	1.8917	-2.365	61.464
2016/05/12	11:07:30	1.9000	-2.510	61.313
2016/05/12	11:08:00	1.9083	-2.491	61.223
2016/05/12	11:08:30	1.9167	-2.415	60.897
2016/05/12	11:09:00	1.9250	-2.445	60.595