

San Juan 31-6 Unit 231
API # 30-039-24945
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 #231
Well Location	T31N, R6W, Sec. 27
Field and Pool	Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	3176-3326
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	
Casing Flange (CF)	
KB-CF	
Ground Level	6448
Plug Back Total Depth	3327
Total Depth	3327
Production Casing	5 1/2 to 3327
Production Tubing	2 3/8 to 3264

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/10/17
Dead-weight Gauge Tubing Pressure	0
Dead-weight Gauge Casing Pressure	0
Shut-in Date (Duration)	
Date / Time on Bottom	5/10/17 @1026
Date / Time off Bottom	5/10/17 @1126
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3310

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	786.8 psig
Maximum Recorded Probe Temperature	117.8 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

ANMOCD TA Expires
5-8-2020

AV

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Company Name ConocoPhillips
Well Name San Juan 31-6 #231
Type of Test POOH Static Gradient
Date(s) of Test 5/10/17



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	5/10/17



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH w/1.50 IB and tagged fill @3310 WLM. RIH w/BHP gauge to 2208 WLM, set 1 hour, then POOH making 5 minute gradient stops per request.

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Pressure vs. Depth

Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
		3308.000	781.754	-	117.828	-
1026	1126	3308.000	785.308	-	106.781	-
1127	1132	3000.000	654.655	0.4242	112.809	-0.0196
1133	1138	2500.000	438.299	0.4327	101.338	0.0229
1139	1144	2000.000	222.340	0.4319	91.269	0.0201
1145	1150	1500.000	4.393	0.4359	81.822	0.0189
1151	1156	1000.000	-2.582	0.0140	76.867	0.0099
1157	1202	500.000	-2.684	0.0002	73.569	0.0066
1203	1208	0.000	-2.826	0.0003	70.653	0.0058

Extrapolated to MPP:

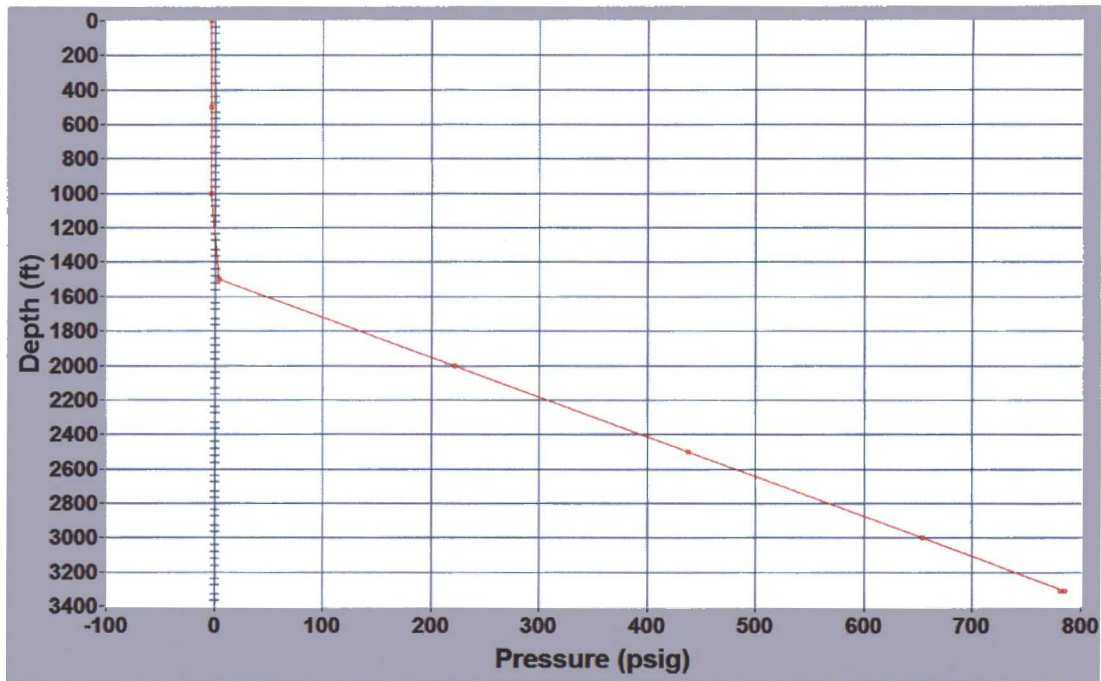
(ft)	(psig)	(deg F)
0.000		

Company Name ConocoPhillips
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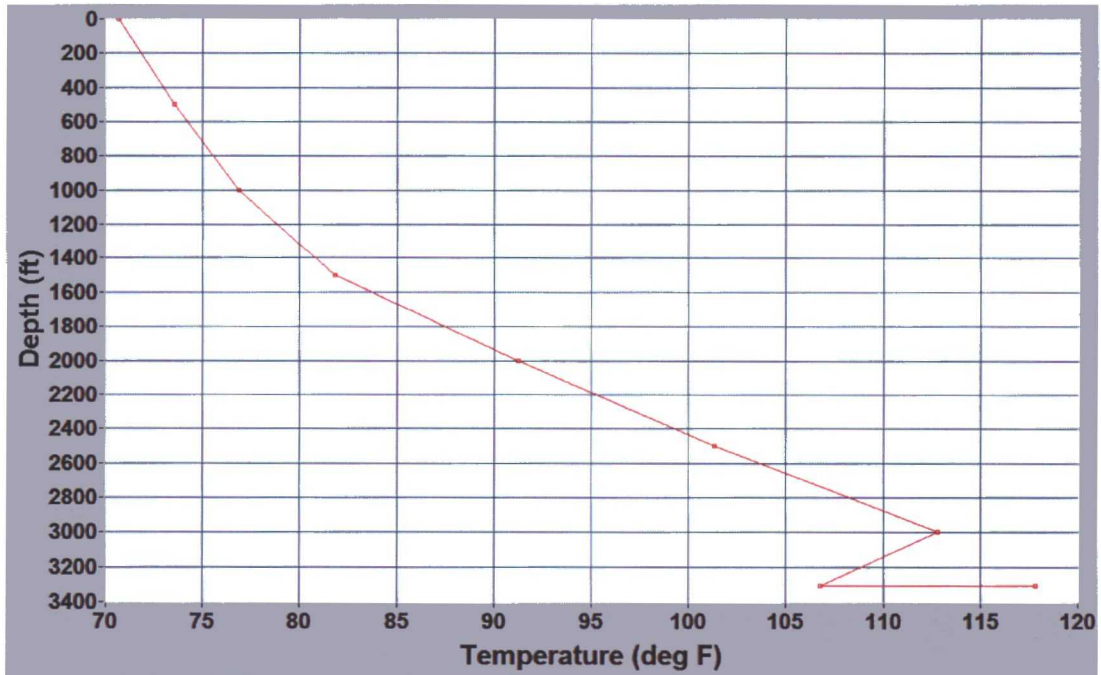


Probe Serial Number W1036

W1036 Depth vs. Pressure



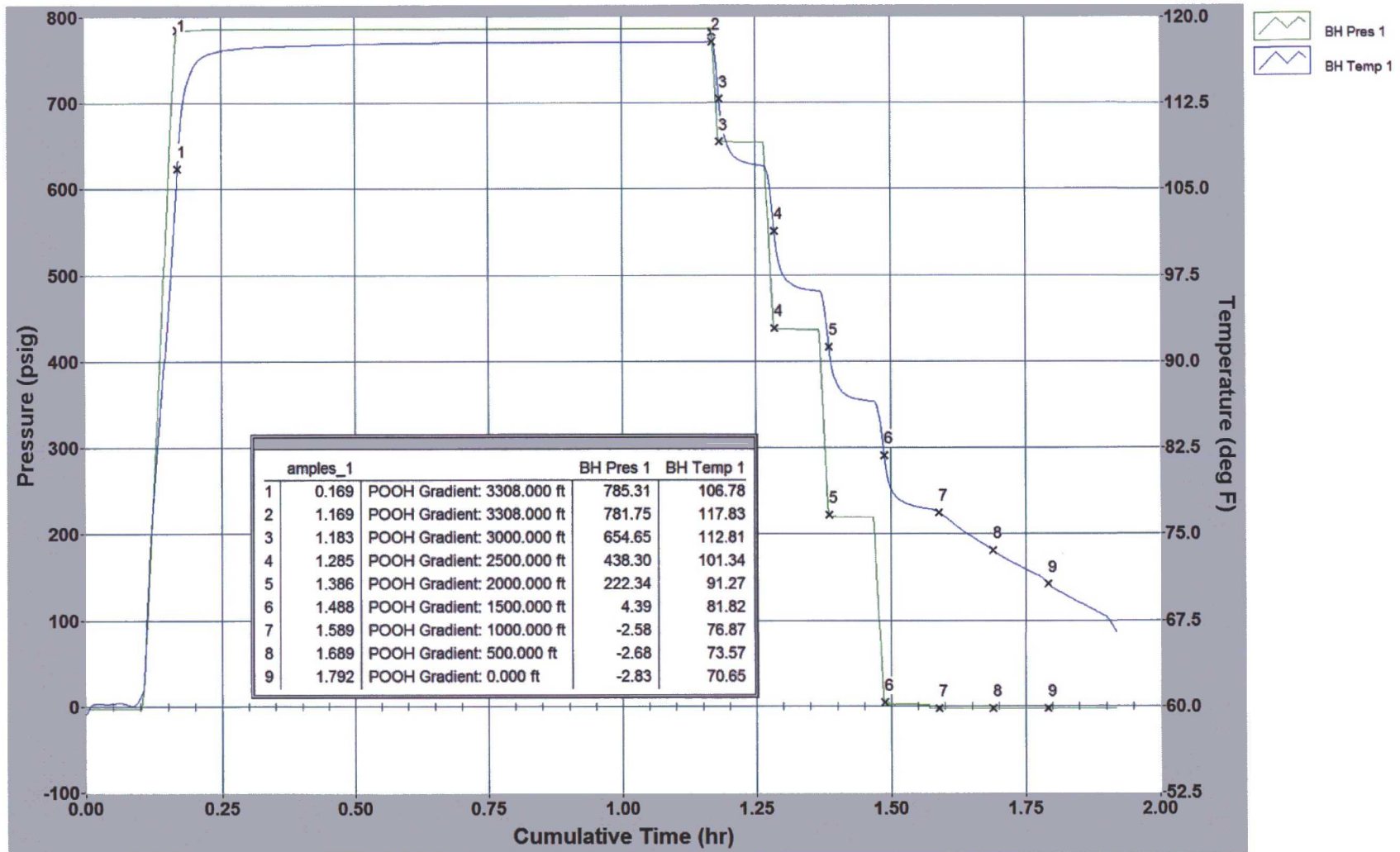
W1036 Depth vs. Temperature



Company Name ConocoPhillips
 Well Name San Juan 31-6 #231
 Type of Test POOH Static Gradient
 Date(s) of Test 5/10/17



San Juan 31-6 #231



Company Name ConocoPhillips
Well Name San Juan 31-6 #231
Type of Test POOH Static Gradient
Date(s) of Test 5/10/17



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/10	10:16:20	0.0000	-2.641	59.329
2017/05/10	10:16:50	0.0083	-2.697	59.959
2017/05/10	10:17:20	0.0167	-2.643	60.249
2017/05/10	10:17:50	0.0250	-2.653	60.264
2017/05/10	10:18:20	0.0333	-2.655	60.204
2017/05/10	10:18:50	0.0417	-2.668	60.199
2017/05/10	10:19:20	0.0500	-2.687	60.240
2017/05/10	10:19:50	0.0583	-2.688	60.283
2017/05/10	10:20:20	0.0667	-2.686	60.283
2017/05/10	10:20:50	0.0750	-2.641	60.161
2017/05/10	10:21:20	0.0833	-2.574	60.062
2017/05/10	10:21:50	0.0917	-2.487	60.166
2017/05/10	10:22:20	0.1000	-2.350	60.717
2017/05/10	10:22:50	0.1083	48.108	63.741
2017/05/10	10:23:20	0.1167	145.522	72.253
2017/05/10	10:23:50	0.1250	250.906	78.195
2017/05/10	10:24:20	0.1333	358.859	83.161
2017/05/10	10:24:50	0.1417	467.193	88.074
2017/05/10	10:25:20	0.1500	583.892	93.043
2017/05/10	10:25:50	0.1583	692.758	98.654
2017/05/10	10:26:20	0.1667	775.740	104.547
POOH Gradient: 3308.000 ft				
2017/05/10	10:26:30	0.1694	785.308	106.781
2017/05/10	10:26:50	0.1750	784.052	110.444
2017/05/10	10:27:20	0.1833	784.453	113.378
2017/05/10	10:27:50	0.1917	785.296	114.922
2017/05/10	10:28:20	0.2000	785.773	115.774
2017/05/10	10:28:50	0.2083	785.973	116.276
2017/05/10	10:29:20	0.2167	786.208	116.586
2017/05/10	10:29:50	0.2250	786.346	116.780
2017/05/10	10:30:20	0.2333	786.442	116.920
2017/05/10	10:30:50	0.2417	786.520	117.028
2017/05/10	10:31:20	0.2500	786.584	117.106
2017/05/10	10:31:50	0.2583	786.626	117.171
2017/05/10	10:32:20	0.2667	786.660	117.223
2017/05/10	10:32:50	0.2750	786.692	117.277
2017/05/10	10:33:20	0.2833	786.702	117.315
2017/05/10	10:33:50	0.2917	786.728	117.356
2017/05/10	10:34:20	0.3000	786.729	117.370
2017/05/10	10:34:50	0.3083	786.742	117.387
2017/05/10	10:35:20	0.3167	786.752	117.421
2017/05/10	10:35:50	0.3250	786.751	117.435
2017/05/10	10:36:20	0.3333	786.769	117.462
2017/05/10	10:36:50	0.3417	786.768	117.473
2017/05/10	10:37:20	0.3500	786.772	117.486
2017/05/10	10:37:50	0.3583	786.763	117.495
2017/05/10	10:38:20	0.3667	786.774	117.509
2017/05/10	10:38:50	0.3750	786.780	117.520
2017/05/10	10:39:20	0.3833	786.776	117.523
2017/05/10	10:39:50	0.3917	786.777	117.541
2017/05/10	10:40:20	0.4000	786.779	117.556
2017/05/10	10:40:50	0.4083	786.787	117.567
2017/05/10	10:41:20	0.4167	786.786	117.576
2017/05/10	10:41:50	0.4250	786.780	117.581

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/10	10:42:20	0.4333	786.767	117.592
2017/05/10	10:42:50	0.4417	786.787	117.610
2017/05/10	10:43:20	0.4500	786.787	117.610
2017/05/10	10:43:50	0.4583	786.791	117.619
2017/05/10	10:44:20	0.4667	786.782	117.628
2017/05/10	10:44:50	0.4750	786.779	117.631
2017/05/10	10:45:20	0.4833	786.781	117.646
2017/05/10	10:45:50	0.4917	786.777	117.653
2017/05/10	10:46:20	0.5000	786.770	117.660
2017/05/10	10:46:50	0.5083	786.769	117.671
2017/05/10	10:47:20	0.5167	786.775	117.682
2017/05/10	10:47:50	0.5250	786.768	117.685
2017/05/10	10:48:20	0.5333	786.764	117.693
2017/05/10	10:48:50	0.5417	786.775	117.703
2017/05/10	10:49:20	0.5500	786.764	117.709
2017/05/10	10:49:50	0.5583	786.766	117.716
2017/05/10	10:50:20	0.5667	786.757	117.720
2017/05/10	10:50:50	0.5750	786.755	117.725
2017/05/10	10:51:20	0.5833	786.769	117.736
2017/05/10	10:51:50	0.5917	786.770	117.732
2017/05/10	10:52:20	0.6000	786.765	117.738
2017/05/10	10:52:50	0.6083	786.776	117.752
2017/05/10	10:53:20	0.6167	786.763	117.752
2017/05/10	10:53:50	0.6250	786.762	117.757
2017/05/10	10:54:20	0.6333	786.751	117.756
2017/05/10	10:54:50	0.6417	786.751	117.759
2017/05/10	10:55:20	0.6500	786.751	117.768
2017/05/10	10:55:50	0.6583	786.743	117.768
2017/05/10	10:56:20	0.6667	786.752	117.768
2017/05/10	10:56:50	0.6750	786.738	117.770
2017/05/10	10:57:20	0.6833	786.747	117.777
2017/05/10	10:57:50	0.6917	786.729	117.783
2017/05/10	10:58:20	0.7000	786.733	117.779
2017/05/10	10:58:50	0.7083	786.729	117.783
2017/05/10	10:59:20	0.7167	786.737	117.790
2017/05/10	10:59:50	0.7250	786.724	117.784
2017/05/10	11:00:20	0.7333	786.729	117.790
2017/05/10	11:00:50	0.7417	786.742	117.792
2017/05/10	11:01:20	0.7500	786.740	117.793
2017/05/10	11:01:50	0.7583	786.734	117.793
2017/05/10	11:02:20	0.7667	786.726	117.795
2017/05/10	11:02:50	0.7750	786.731	117.797
2017/05/10	11:03:20	0.7833	786.727	117.804
2017/05/10	11:03:50	0.7917	786.721	117.797
2017/05/10	11:04:20	0.8000	786.722	117.810
2017/05/10	11:04:50	0.8083	786.726	117.802
2017/05/10	11:05:20	0.8167	786.721	117.804
2017/05/10	11:05:50	0.8250	786.714	117.802
2017/05/10	11:06:20	0.8333	786.716	117.806
2017/05/10	11:06:50	0.8417	786.726	117.811
2017/05/10	11:07:20	0.8500	786.726	117.806
2017/05/10	11:07:50	0.8583	786.719	117.810
2017/05/10	11:08:20	0.8667	786.701	117.802
2017/05/10	11:08:50	0.8750	786.713	117.806

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Date(s) of Test 5/10/17



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/10	11:09:20	0.8833	786.717	117.808
2017/05/10	11:09:50	0.8917	786.718	117.810
2017/05/10	11:10:20	0.9000	786.713	117.813
2017/05/10	11:10:50	0.9083	786.713	117.815
2017/05/10	11:11:20	0.9167	786.707	117.810
2017/05/10	11:11:50	0.9250	786.715	117.820
2017/05/10	11:12:20	0.9333	786.717	117.819
2017/05/10	11:12:50	0.9417	786.718	117.820
2017/05/10	11:13:20	0.9500	786.710	117.810
2017/05/10	11:13:50	0.9583	786.706	117.808
2017/05/10	11:14:20	0.9667	786.706	117.817
2017/05/10	11:14:50	0.9750	786.705	117.811
2017/05/10	11:15:20	0.9833	786.708	117.811
2017/05/10	11:15:50	0.9917	786.712	117.817
2017/05/10	11:16:20	1.0000	786.705	117.819
2017/05/10	11:16:50	1.0083	786.704	117.810
2017/05/10	11:17:20	1.0167	786.704	117.810
2017/05/10	11:17:50	1.0250	786.700	117.813
2017/05/10	11:18:20	1.0333	786.700	117.817
2017/05/10	11:18:50	1.0417	786.691	117.808
2017/05/10	11:19:20	1.0500	786.701	117.822
2017/05/10	11:19:50	1.0583	786.701	117.819
2017/05/10	11:20:20	1.0667	786.702	117.820
2017/05/10	11:20:50	1.0750	786.706	117.824
2017/05/10	11:21:20	1.0833	786.693	117.815
2017/05/10	11:21:50	1.0917	786.697	117.826
2017/05/10	11:22:20	1.1000	786.687	117.817
2017/05/10	11:22:50	1.1083	786.689	117.826
2017/05/10	11:23:20	1.1167	786.691	117.820
2017/05/10	11:23:50	1.1250	786.686	117.822
2017/05/10	11:24:20	1.1333	786.687	117.824
2017/05/10	11:24:50	1.1417	786.690	117.828
2017/05/10	11:25:20	1.1500	786.694	117.826
2017/05/10	11:25:50	1.1583	786.698	117.822
2017/05/10	11:26:20	1.1667	786.691	117.826
POOH Gradient: 3308.000 ft				
2017/05/10	11:26:30	1.1694	781.754	117.828
2017/05/10	11:26:50	1.1750	725.677	116.953
POOH Gradient: 3000.000 ft				
2017/05/10	11:27:20	1.1833	654.655	112.809
2017/05/10	11:27:50	1.1917	654.511	109.803
2017/05/10	11:28:20	1.2000	654.693	108.583
2017/05/10	11:28:50	1.2083	654.509	107.956
2017/05/10	11:29:20	1.2167	654.315	107.609
2017/05/10	11:29:50	1.2250	654.244	107.391
2017/05/10	11:30:20	1.2333	654.188	107.253
2017/05/10	11:30:50	1.2417	654.148	107.157
2017/05/10	11:31:20	1.2500	654.163	107.092
2017/05/10	11:31:50	1.2583	654.136	107.038
2017/05/10	11:32:20	1.2667	647.025	106.990
2017/05/10	11:32:50	1.2750	538.774	105.629
2017/05/10	11:33:20	1.2833	441.762	102.002
POOH Gradient: 2500.000 ft				
2017/05/10	11:33:25	1.2847	438.299	101.338

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2017/05/10	11:33:50	1.2917	437.726	98.931
2017/05/10	11:34:20	1.3000	437.541	97.693
2017/05/10	11:34:50	1.3083	437.373	97.059
2017/05/10	11:35:20	1.3167	437.289	96.717
2017/05/10	11:35:50	1.3250	437.217	96.490
2017/05/10	11:36:20	1.3333	437.163	96.350
2017/05/10	11:36:50	1.3417	437.120	96.256
2017/05/10	11:37:20	1.3500	437.100	96.195
2017/05/10	11:37:50	1.3583	437.077	96.134
2017/05/10	11:38:20	1.3667	437.063	96.103
2017/05/10	11:38:50	1.3750	342.359	95.376
2017/05/10	11:39:20	1.3833	234.547	92.457
POOH Gradient: 2000.000 ft				
2017/05/10	11:39:30	1.3861	222.340	91.269
2017/05/10	11:39:50	1.3917	219.722	89.400
2017/05/10	11:40:20	1.4000	219.592	88.090
2017/05/10	11:40:50	1.4083	219.715	87.454
2017/05/10	11:41:20	1.4167	219.675	87.111
2017/05/10	11:41:50	1.4250	219.648	86.893
2017/05/10	11:42:20	1.4333	219.626	86.763
2017/05/10	11:42:50	1.4417	219.591	86.664
2017/05/10	11:43:20	1.4500	219.556	86.608
2017/05/10	11:43:50	1.4583	219.544	86.558
2017/05/10	11:44:20	1.4667	219.534	86.527
2017/05/10	11:44:50	1.4750	137.949	86.070
2017/05/10	11:45:20	1.4833	31.600	83.527
POOH Gradient: 1500.000 ft				
2017/05/10	11:45:35	1.4875	4.393	81.822
2017/05/10	11:45:50	1.4917	0.883	80.384
2017/05/10	11:46:20	1.5000	1.380	78.976
2017/05/10	11:46:50	1.5083	1.932	78.332
2017/05/10	11:47:20	1.5167	1.948	77.958
2017/05/10	11:47:50	1.5250	1.981	77.725
2017/05/10	11:48:20	1.5333	1.942	77.553
2017/05/10	11:48:50	1.5417	1.953	77.430
2017/05/10	11:49:20	1.5500	1.896	77.338
2017/05/10	11:49:50	1.5583	1.903	77.259
2017/05/10	11:50:20	1.5667	1.903	77.194
2017/05/10	11:50:50	1.5750	-2.457	77.137
2017/05/10	11:51:20	1.5833	-2.542	77.004
POOH Gradient: 1000.000 ft				
2017/05/10	11:51:40	1.5889	-2.582	76.867
2017/05/10	11:51:50	1.5917	-2.559	76.780
2017/05/10	11:52:20	1.6000	-2.528	76.494
2017/05/10	11:52:50	1.6083	-2.567	76.168
2017/05/10	11:53:20	1.6167	-2.549	75.850
2017/05/10	11:53:50	1.6250	-2.521	75.547
2017/05/10	11:54:20	1.6333	-2.553	75.268
2017/05/10	11:54:50	1.6417	-2.529	74.998
2017/05/10	11:55:20	1.6500	-2.559	74.748
2017/05/10	11:55:50	1.6583	-2.515	74.491
2017/05/10	11:56:20	1.6667	-2.533	74.262
2017/05/10	11:56:50	1.6750	-2.577	74.039
2017/05/10	11:57:20	1.6833	-2.607	73.789

Company Name ConocoPhillips
Well Name San Juan 31-6 #231
Type of Test POOH Static Gradient
Date(s) of Test 5/10/17



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
POOH Gradient: 500.000 ft				
2017/05/10	11:57:40	1.6889	-2.684	73.569
2017/05/10	11:57:50	1.6917	-2.663	73.456
2017/05/10	11:58:20	1.7000	-2.672	73.191
2017/05/10	11:58:50	1.7083	-2.676	72.968
2017/05/10	11:59:20	1.7167	-2.678	72.748
2017/05/10	11:59:50	1.7250	-2.671	72.541
2017/05/10	12:00:20	1.7333	-2.652	72.331
2017/05/10	12:00:50	1.7417	-2.670	72.129
2017/05/10	12:01:20	1.7500	-2.667	71.935
2017/05/10	12:01:50	1.7583	-2.680	71.739
2017/05/10	12:02:20	1.7667	-2.646	71.550
2017/05/10	12:02:50	1.7750	-2.703	71.359
2017/05/10	12:03:20	1.7833	-2.747	71.051
POOH Gradient: 0.000 ft				
2017/05/10	12:03:50	1.7917	-2.826	70.653
2017/05/10	12:04:20	1.8000	-2.793	70.326
2017/05/10	12:04:50	1.8083	-2.761	70.088
2017/05/10	12:05:20	1.8167	-2.760	69.858
2017/05/10	12:05:50	1.8250	-2.765	69.643
2017/05/10	12:06:20	1.8333	-2.753	69.436
2017/05/10	12:06:50	1.8417	-2.754	69.229
2017/05/10	12:07:20	1.8500	-2.740	69.030
2017/05/10	12:07:50	1.8583	-2.775	68.821
2017/05/10	12:08:20	1.8667	-2.784	68.630
2017/05/10	12:08:50	1.8750	-2.754	68.436
2017/05/10	12:09:20	1.8833	-2.748	68.225
2017/05/10	12:09:50	1.8917	-2.753	68.011
2017/05/10	12:10:20	1.9000	-2.733	67.761
2017/05/10	12:10:50	1.9083	-2.811	67.224
2017/05/10	12:11:20	1.9167	-2.766	66.573