

OIL CONS. DIV DIST. 3

MAY 14 2015

Pressure Test Report

COMPANY INFORMATION

Company Name	CONOCOPHILLIPS
Representative	PRISCILLA SHORTY
Phone	
Fax	
Address	

E-Mail Address	
Service Company	PHOENIX SERVICES

WELL INFORMATION

Well Name	JOHNSTON FEDERAL 22 POW
Well Location	T31N, R9W, SEC. 33
Field and Pool	BASIN FRUITLAND COAL
Status (Oil, Gas, Water, Injection)	OBSERVATION
Perforated Intervals	2547-2980
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	11.5
Casing Flange (CF)	
KB-CF	
Ground Level	6313
Plug Back Total Depth	3448
Total Depth	3450
Production Casing	4 1/2 TO 2294
Production Tubing	2 3/8 TO 2999

TEST INFORMATION

Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/9/15
Dead-weight Gauge Tubing Pressure	60
Dead-weight Gauge Casing Pressure	0
Shut-in Date (Duration)	
Date / Time on Bottom	5/9/15 @ 1150 HRS
Date / Time off Bottom	5/9/15 @ 1250 HRS
Probe Serial Number	W1039
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3054

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	57.7 psig
Maximum Recorded Probe Temperature	112.0 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	34998WP

Company Name	CONOCOPHILLIPS
Well Name	JOHNSTON FEDERAL 22 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/9/15

PROBE INFORMATION

Probe Serial Number W1039
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
Well Name	JOHNSTON FEDERAL 22 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/9/15

COMMENTS

Reported By

PHOENIX SERVICES

RAN 1.75 GR TO 3060'-SET DOWN-RAN TANDEM BHP GAUGES TO 3054'-SET 1 HR-POOH MAKING GRADIENT STOPS.

Company Name	CONOCOPHILLIPS
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Pressure vs. Depth

Probe Serial Number W1039

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1150	1250	3054.000	57.060	-	111.963	-
1250	1255	3000.000	56.970	0.0017	111.861	0.0019
1255	1300	2800.000	56.613	0.0018	109.908	0.0098
1300	1305	2600.000	56.278	0.0017	106.569	0.0167
1305	1310	2000.000	55.345	0.0016	100.852	0.0095
1310	1315	1500.000	54.624	0.0014	94.363	0.0130
1315	1320	1000.000	53.909	0.0014	88.889	0.0109
1320	1325	500.000	53.240	0.0013	81.601	0.0146
1325	1330	0.000	52.565	0.0013	74.298	0.0146

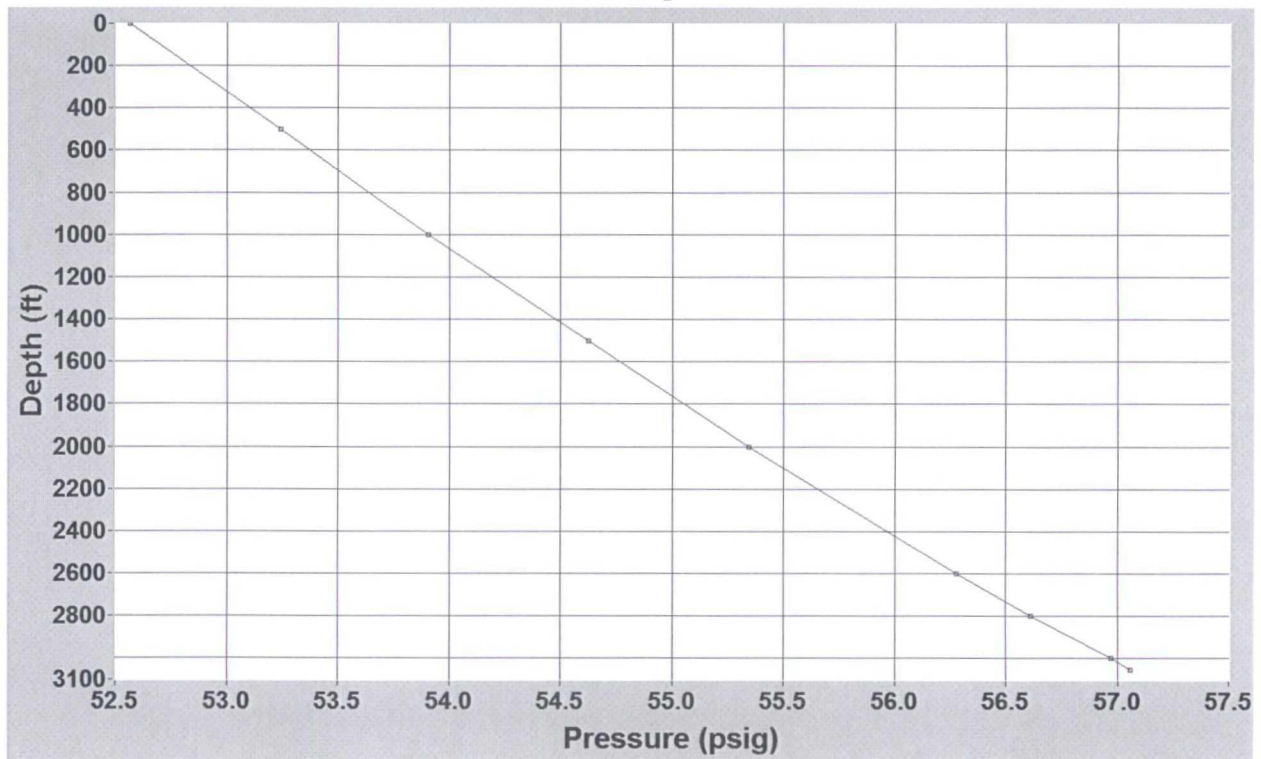
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

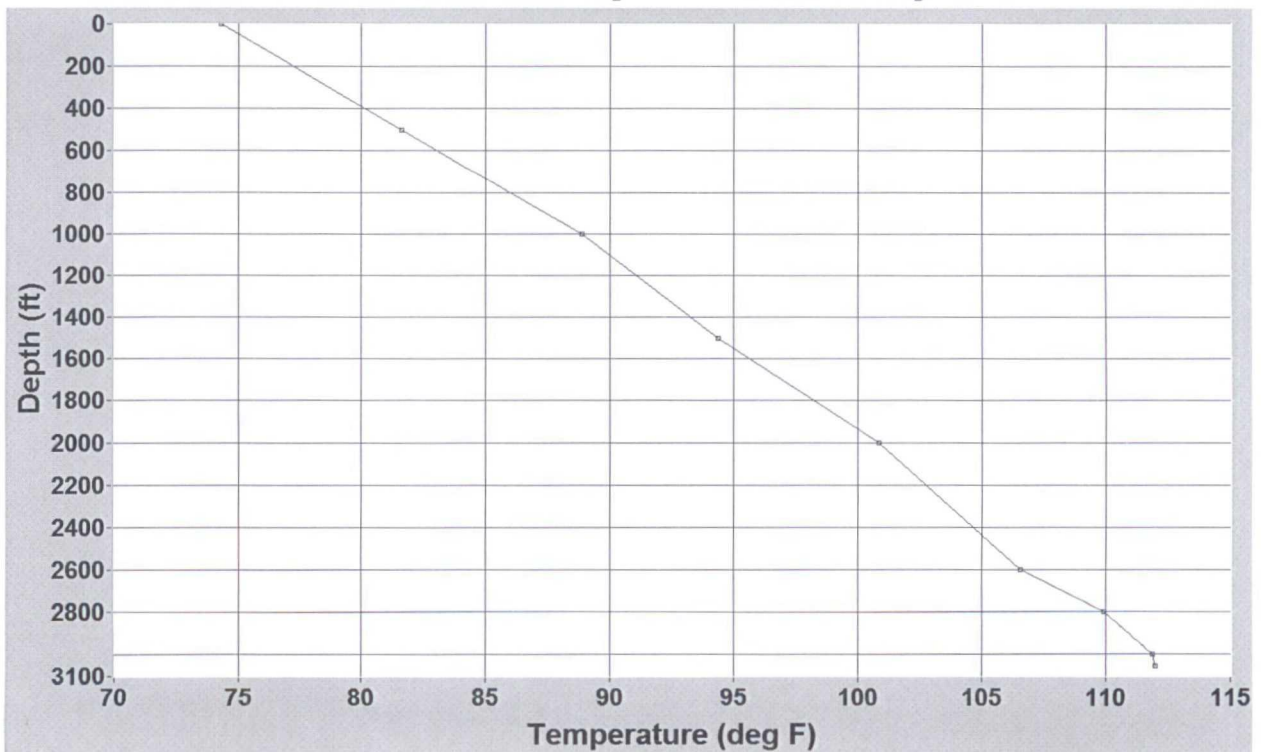
Company Name CONOCOPHILLIPS
Well Name JOHNSTON FEDERAL 22 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/9/15

Probe Serial Number W1039

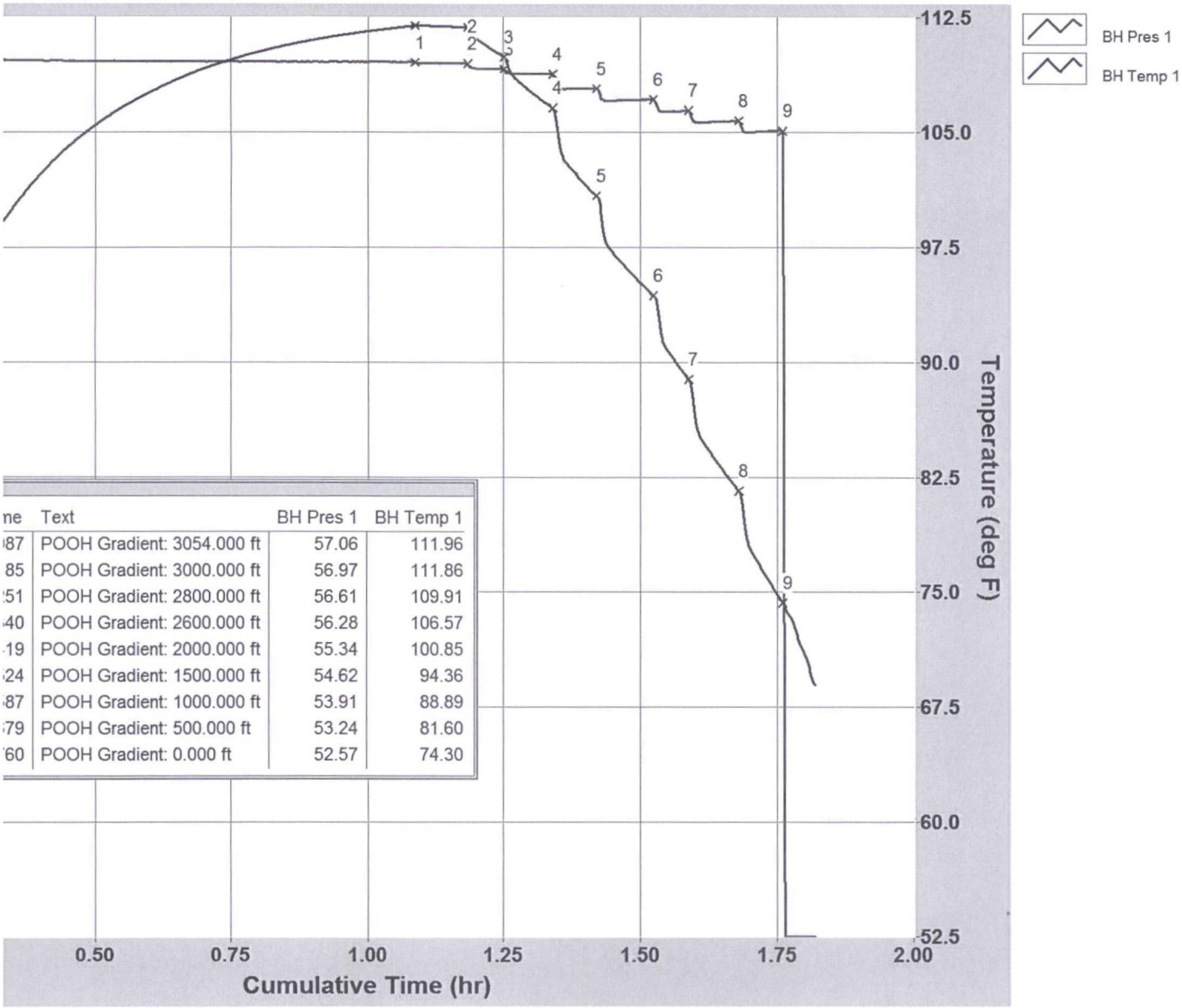
POOH Gradient Depth vs. Pressure



POOH Gradient Depth vs. Temperature



Johnston Federal #22



Company Name CONOCOPHILLIPS
Well Name JOHNSTON FEDERAL 22 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/9/15

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2015/05/09	11:44:05	0.0000	0.000	59.995
2015/05/09	11:44:35	0.0083	0.000	59.713
2015/05/09	11:45:05	0.0167	0.000	59.475
2015/05/09	11:45:35	0.0250	0.000	59.176
2015/05/09	11:46:05	0.0333	53.079	59.077
2015/05/09	11:46:35	0.0417	53.449	58.838
2015/05/09	11:47:05	0.0500	53.816	58.537
2015/05/09	11:47:35	0.0583	54.325	58.500
2015/05/09	11:48:05	0.0667	54.863	59.056
2015/05/09	11:48:35	0.0750	55.389	60.240
2015/05/09	11:49:05	0.0833	55.824	61.977
2015/05/09	11:49:35	0.0917	56.378	64.517
2015/05/09	11:50:05	0.1000	56.974	68.187
2015/05/09	11:50:35	0.1083	57.577	73.450
2015/05/09	11:51:05	0.1167	57.698	78.805
2015/05/09	11:51:35	0.1250	57.684	80.946
2015/05/09	11:52:05	0.1333	57.633	82.364
2015/05/09	11:52:35	0.1417	57.565	83.556
2015/05/09	11:53:05	0.1500	57.531	84.585
2015/05/09	11:53:35	0.1583	57.491	85.557
2015/05/09	11:54:05	0.1667	57.430	86.486
2015/05/09	11:54:35	0.1750	57.410	87.388
2015/05/09	11:55:05	0.1833	57.393	88.266
2015/05/09	11:55:35	0.1917	57.368	89.094
2015/05/09	11:56:05	0.2000	57.345	89.893
2015/05/09	11:56:35	0.2083	57.323	90.651
2015/05/09	11:57:05	0.2167	57.295	91.391
2015/05/09	11:57:35	0.2250	57.281	92.088
2015/05/09	11:58:05	0.2333	57.256	92.773
2015/05/09	11:58:35	0.2417	57.270	93.425
2015/05/09	11:59:05	0.2500	57.251	94.060
2015/05/09	11:59:35	0.2583	57.241	94.663
2015/05/09	12:00:05	0.2667	57.221	95.250
2015/05/09	12:00:35	0.2750	57.217	95.812
2015/05/09	12:01:05	0.2833	57.206	96.370
2015/05/09	12:01:35	0.2917	57.189	96.894
2015/05/09	12:02:05	0.3000	57.199	97.407
2015/05/09	12:02:35	0.3083	57.195	97.903
2015/05/09	12:03:05	0.3167	57.172	98.377
2015/05/09	12:03:35	0.3250	57.184	98.841
2015/05/09	12:04:05	0.3333	57.190	99.286
2015/05/09	12:04:35	0.3417	57.163	99.707
2015/05/09	12:05:05	0.3500	57.168	100.121
2015/05/09	12:05:35	0.3583	57.159	100.510
2015/05/09	12:06:05	0.3667	57.151	100.890
2015/05/09	12:06:35	0.3750	57.144	101.250
2015/05/09	12:07:05	0.3833	57.146	101.597
2015/05/09	12:07:35	0.3917	57.143	101.941
2015/05/09	12:08:05	0.4000	57.149	102.270
2015/05/09	12:08:35	0.4083	57.116	102.596

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2015/05/09	12:09:05	0.4167	57.131	102.906
2015/05/09	12:09:35	0.4250	57.148	103.195
2015/05/09	12:10:05	0.4333	57.143	103.480
2015/05/09	12:10:35	0.4417	57.124	103.755
2015/05/09	12:11:05	0.4500	57.110	104.018
2015/05/09	12:11:35	0.4583	57.121	104.277
2015/05/09	12:12:05	0.4667	57.119	104.522
2015/05/09	12:12:35	0.4750	57.102	104.758
2015/05/09	12:13:05	0.4833	57.118	104.983
2015/05/09	12:13:35	0.4917	57.109	105.206
2015/05/09	12:14:05	0.5000	57.112	105.422
2015/05/09	12:14:35	0.5083	57.120	105.629
2015/05/09	12:15:05	0.5167	57.124	105.832
2015/05/09	12:15:35	0.5250	57.091	106.025
2015/05/09	12:16:05	0.5333	57.111	106.212
2015/05/09	12:16:35	0.5417	57.118	106.399
2015/05/09	12:17:05	0.5500	57.096	106.579
2015/05/09	12:17:35	0.5583	57.120	106.750
2015/05/09	12:18:05	0.5667	57.107	106.914
2015/05/09	12:18:35	0.5750	57.116	107.071
2015/05/09	12:19:05	0.5833	57.108	107.238
2015/05/09	12:19:35	0.5917	57.096	107.389
2015/05/09	12:20:05	0.6000	57.087	107.533
2015/05/09	12:20:35	0.6083	57.099	107.677
2015/05/09	12:21:05	0.6167	57.095	107.829
2015/05/09	12:21:35	0.6250	57.104	107.973
2015/05/09	12:22:05	0.6333	57.111	108.115
2015/05/09	12:22:35	0.6417	57.100	108.248
2015/05/09	12:23:05	0.6500	57.091	108.383
2015/05/09	12:23:35	0.6583	57.083	108.511
2015/05/09	12:24:05	0.6667	57.102	108.631
2015/05/09	12:24:35	0.6750	57.086	108.754
2015/05/09	12:25:05	0.6833	57.108	108.871
2015/05/09	12:25:35	0.6917	57.110	108.990
2015/05/09	12:26:05	0.7000	57.093	109.096
2015/05/09	12:26:35	0.7083	57.091	109.200
2015/05/09	12:27:05	0.7167	57.091	109.310
2015/05/09	12:27:35	0.7250	57.079	109.413
2015/05/09	12:28:05	0.7333	57.078	109.508
2015/05/09	12:28:35	0.7417	57.074	109.603
2015/05/09	12:29:05	0.7500	57.107	109.695
2015/05/09	12:29:35	0.7583	57.112	109.785
2015/05/09	12:30:05	0.7667	57.076	109.875
2015/05/09	12:30:35	0.7750	57.096	109.962
2015/05/09	12:31:05	0.7833	57.087	110.046
2015/05/09	12:31:35	0.7917	57.084	110.129
2015/05/09	12:32:05	0.8000	57.091	110.214
2015/05/09	12:32:35	0.8083	57.088	110.291
2015/05/09	12:33:05	0.8167	57.080	110.361
2015/05/09	12:33:35	0.8250	57.080	110.430

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Date(s) of Test 5/9/15

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2015/05/09	12:34:05	0.8333	57.077	110.502
2015/05/09	12:34:35	0.8417	57.085	110.570
2015/05/09	12:35:05	0.8500	57.095	110.637
2015/05/09	12:35:35	0.8583	57.079	110.703
2015/05/09	12:36:05	0.8667	57.082	110.764
2015/05/09	12:36:35	0.8750	57.064	110.822
2015/05/09	12:37:05	0.8833	57.075	110.881
2015/05/09	12:37:35	0.8917	57.083	110.948
2015/05/09	12:38:05	0.9000	57.070	111.002
2015/05/09	12:38:35	0.9083	57.081	111.060
2015/05/09	12:39:05	0.9167	57.079	111.108
2015/05/09	12:39:35	0.9250	57.072	111.162
2015/05/09	12:40:05	0.9333	57.083	111.213
2015/05/09	12:40:35	0.9417	57.089	111.265
2015/05/09	12:41:05	0.9500	57.074	111.315
2015/05/09	12:41:35	0.9583	57.091	111.364
2015/05/09	12:42:05	0.9667	57.075	111.412
2015/05/09	12:42:35	0.9750	57.087	111.452
2015/05/09	12:43:05	0.9833	57.086	111.495
2015/05/09	12:43:35	0.9917	57.089	111.542
2015/05/09	12:44:05	1.0000	57.069	111.582
2015/05/09	12:44:35	1.0083	57.083	111.623
2015/05/09	12:45:05	1.0167	57.082	111.661
2015/05/09	12:45:35	1.0250	57.088	111.706
2015/05/09	12:46:05	1.0333	57.082	111.735
2015/05/09	12:46:35	1.0417	57.064	111.776
2015/05/09	12:47:05	1.0500	57.084	111.807
2015/05/09	12:47:35	1.0583	57.061	111.841
2015/05/09	12:48:05	1.0667	57.068	111.877
2015/05/09	12:48:35	1.0750	57.088	111.909
2015/05/09	12:49:05	1.0833	57.076	111.945
POOH Gradient: 3054.000 ft				
2015/05/09	12:49:20	1.0875	57.060	111.963
2015/05/09	12:49:35	1.0917	56.984	111.969
2015/05/09	12:50:05	1.1000	56.979	111.965
2015/05/09	12:50:35	1.1083	56.991	111.945
2015/05/09	12:51:05	1.1167	56.975	111.933
2015/05/09	12:51:35	1.1250	57.002	111.925
2015/05/09	12:52:05	1.1333	56.976	111.916
2015/05/09	12:52:35	1.1417	56.979	111.902
2015/05/09	12:53:05	1.1500	56.985	111.891
2015/05/09	12:53:35	1.1583	56.998	111.882
2015/05/09	12:54:05	1.1667	56.985	111.873
2015/05/09	12:54:35	1.1750	56.975	111.864
2015/05/09	12:55:05	1.1833	56.957	111.855
POOH Gradient: 3000.000 ft				
2015/05/09	12:55:10	1.1847	56.970	111.861
2015/05/09	12:55:35	1.1917	56.703	111.571
2015/05/09	12:56:05	1.2000	56.631	111.157
2015/05/09	12:56:35	1.2083	56.638	110.923

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2015/05/09	12:57:05	1.2167	56.619	110.712
2015/05/09	12:57:35	1.2250	56.636	110.498
2015/05/09	12:58:05	1.2333	56.644	110.313
2015/05/09	12:58:35	1.2417	56.641	110.122
2015/05/09	12:59:05	1.2500	56.617	109.936
POOH Gradient: 2800.000 ft				
2015/05/09	12:59:10	1.2514	56.613	109.908
2015/05/09	12:59:35	1.2583	56.348	109.283
2015/05/09	13:00:05	1.2667	56.301	108.714
2015/05/09	13:00:35	1.2750	56.291	108.412
2015/05/09	13:01:05	1.2833	56.317	108.138
2015/05/09	13:01:35	1.2917	56.296	107.879
2015/05/09	13:02:05	1.3000	56.302	107.641
2015/05/09	13:02:35	1.3083	56.305	107.402
2015/05/09	13:03:05	1.3167	56.297	107.172
2015/05/09	13:03:35	1.3250	56.308	106.948
2015/05/09	13:04:05	1.3333	56.309	106.745
POOH Gradient: 2600.000 ft				
2015/05/09	13:04:30	1.3403	56.278	106.569
2015/05/09	13:04:35	1.3417	56.105	106.513
2015/05/09	13:05:05	1.3500	55.409	104.824
2015/05/09	13:05:35	1.3583	55.322	103.370
2015/05/09	13:06:05	1.3667	55.309	102.933
2015/05/09	13:06:35	1.3750	55.329	102.576
2015/05/09	13:07:05	1.3833	55.337	102.231
2015/05/09	13:07:35	1.3917	55.340	101.894
2015/05/09	13:08:05	1.4000	55.333	101.566
2015/05/09	13:08:35	1.4083	55.340	101.259
2015/05/09	13:09:05	1.4167	55.331	100.949
POOH Gradient: 2000.000 ft				
2015/05/09	13:09:15	1.4194	55.345	100.852
2015/05/09	13:09:35	1.4250	55.027	100.472
2015/05/09	13:10:05	1.4333	54.549	98.283
2015/05/09	13:10:35	1.4417	54.536	97.504
2015/05/09	13:11:05	1.4500	54.533	97.138
2015/05/09	13:11:35	1.4583	54.558	96.802
2015/05/09	13:12:05	1.4667	54.574	96.469
2015/05/09	13:12:35	1.4750	54.580	96.141
2015/05/09	13:13:05	1.4833	54.581	95.819
2015/05/09	13:13:35	1.4917	54.591	95.508
2015/05/09	13:14:05	1.5000	54.606	95.198
2015/05/09	13:14:35	1.5083	54.608	94.899
2015/05/09	13:15:05	1.5167	54.623	94.600
POOH Gradient: 1500.000 ft				
2015/05/09	13:15:30	1.5236	54.624	94.363
2015/05/09	13:15:35	1.5250	54.606	94.311
2015/05/09	13:16:05	1.5333	53.881	92.860
2015/05/09	13:16:35	1.5417	53.837	91.245
2015/05/09	13:17:05	1.5500	53.841	90.730
2015/05/09	13:17:35	1.5583	53.844	90.307

Company Name CONOCOPHILLIPS
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Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/9/15

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2015/05/09	13:18:05	1.5667	53.841	89.890
2015/05/09	13:18:35	1.5750	53.871	89.487
2015/05/09	13:19:05	1.5833	53.889	89.083
POOH Gradient: 1000.000 ft				
2015/05/09	13:19:20	1.5875	53.909	88.889
2015/05/09	13:19:35	1.5917	53.635	88.558
2015/05/09	13:20:05	1.6000	53.171	86.140
2015/05/09	13:20:35	1.6083	53.113	85.149
2015/05/09	13:21:05	1.6167	53.140	84.663
2015/05/09	13:21:35	1.6250	53.165	84.225
2015/05/09	13:22:05	1.6333	53.169	83.800
2015/05/09	13:22:35	1.6417	53.185	83.379
2015/05/09	13:23:05	1.6500	53.207	82.962
2015/05/09	13:23:35	1.6583	53.206	82.566
2015/05/09	13:24:05	1.6667	53.226	82.170
2015/05/09	13:24:35	1.6750	53.234	81.790
POOH Gradient: 500.000 ft				
2015/05/09	13:24:50	1.6792	53.240	81.601
2015/05/09	13:25:05	1.6833	52.936	81.262
2015/05/09	13:25:35	1.6917	52.490	78.859
2015/05/09	13:26:05	1.7000	52.488	77.842
2015/05/09	13:26:35	1.7083	52.514	77.299
2015/05/09	13:27:05	1.7167	52.548	76.793
2015/05/09	13:27:35	1.7250	52.532	76.294
2015/05/09	13:28:05	1.7333	52.569	75.805
2015/05/09	13:28:35	1.7417	52.591	75.315
2015/05/09	13:29:05	1.7500	52.617	74.851
2015/05/09	13:29:35	1.7583	52.619	74.377
POOH Gradient: 0.000 ft				
2015/05/09	13:29:40	1.7597	52.565	74.298
2015/05/09	13:30:05	1.7667	0.000	73.801
2015/05/09	13:30:35	1.7750	0.000	73.321
2015/05/09	13:31:05	1.7833	0.000	72.475
2015/05/09	13:31:35	1.7917	0.000	71.614
2015/05/09	13:32:05	1.8000	0.000	70.914
2015/05/09	13:32:35	1.8083	0.000	70.052
2015/05/09	13:33:05	1.8167	0.000	69.084