

mk

Pressure Test Report

COMPANY INFORMATION

Company Name	Hilcorp
Representative	Priscilla Shorty
Phone	
Fax	
Address	

NMOCB

JUN 04 2018

DISTRICT III

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

WELL INFORMATION

Well Name	San Juan 30-5 Unit #216
Well Location	T30N, R5W, Sec. 20
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	2984-3114
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13
Casing Flange (CF)	
KB-CF	
Ground Level	6275
Plug Back Total Depth	3124
Total Depth	3124
Production Casing	7 to 2962
Production Tubing	2 3/8 to 2969

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/23/18
Dead-weight Gauge Tubing Pressure	30
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/23/18 @0931
Date / Time off Bottom	5/23/18 @1031
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3004

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	47.1 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	

Company Name Hilcorp
Well Name San Juan 30-5 Unit #216
Type of Test POOH Static Gradient
Date(s) of Test 5/23/18



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	Hilcorp
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COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @3007 WLM. RIH with BHP gauge to 3004 for 1 hour, then POOH making 5 minute stops per request.

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Pressure vs. Depth

Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0931	1031	3004.000	47.145	-	85.246	-
1033	1038	2500.000	45.789	0.0027	108.667	-0.0465
1039	1044	2000.000	45.152	0.0013	103.851	0.0096
1045	1050	1500.000	44.560	0.0012	97.423	0.0129
1052	1057	1000.000	44.085	0.0010	91.398	0.0120
1058	1103	500.000	43.538	0.0011	83.417	0.0160
1104	1109	0.000	43.096	0.0009	76.757	0.0133

Extrapolated to MPP:

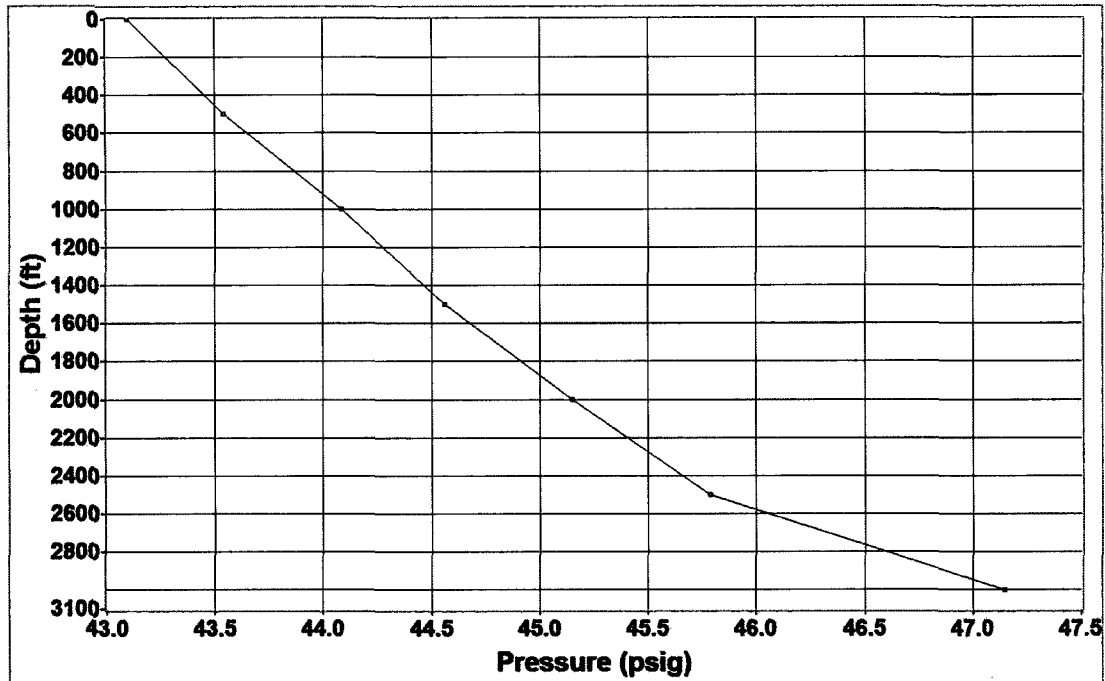
(ft)	(psig)	(deg F)
0.000		

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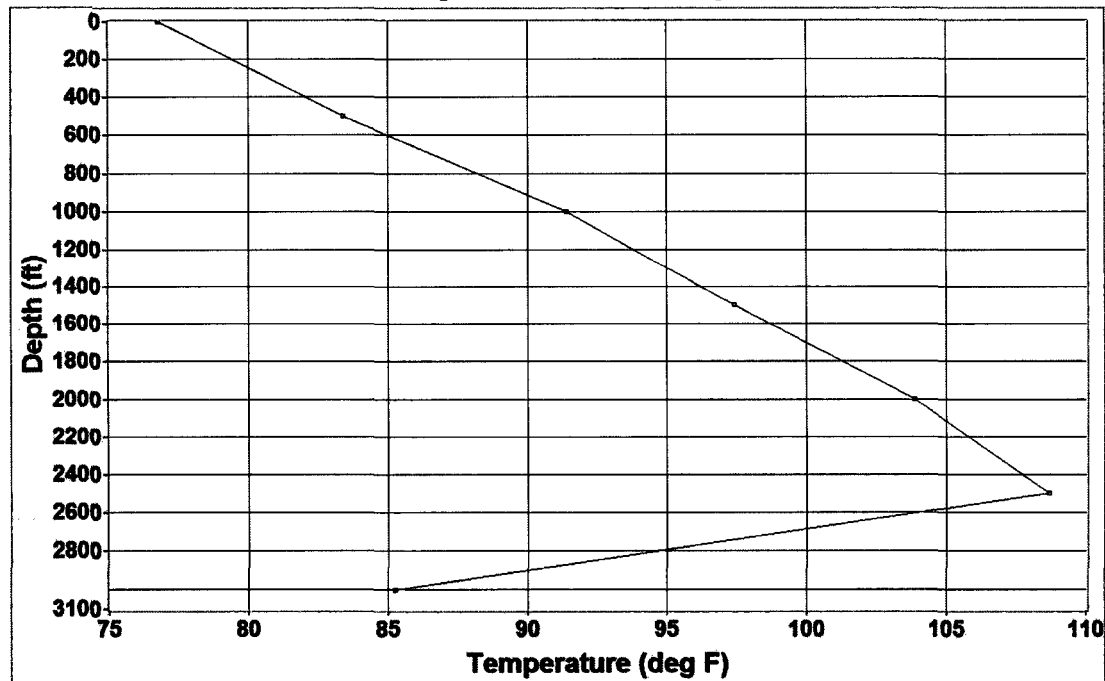


Probe Serial Number W1036

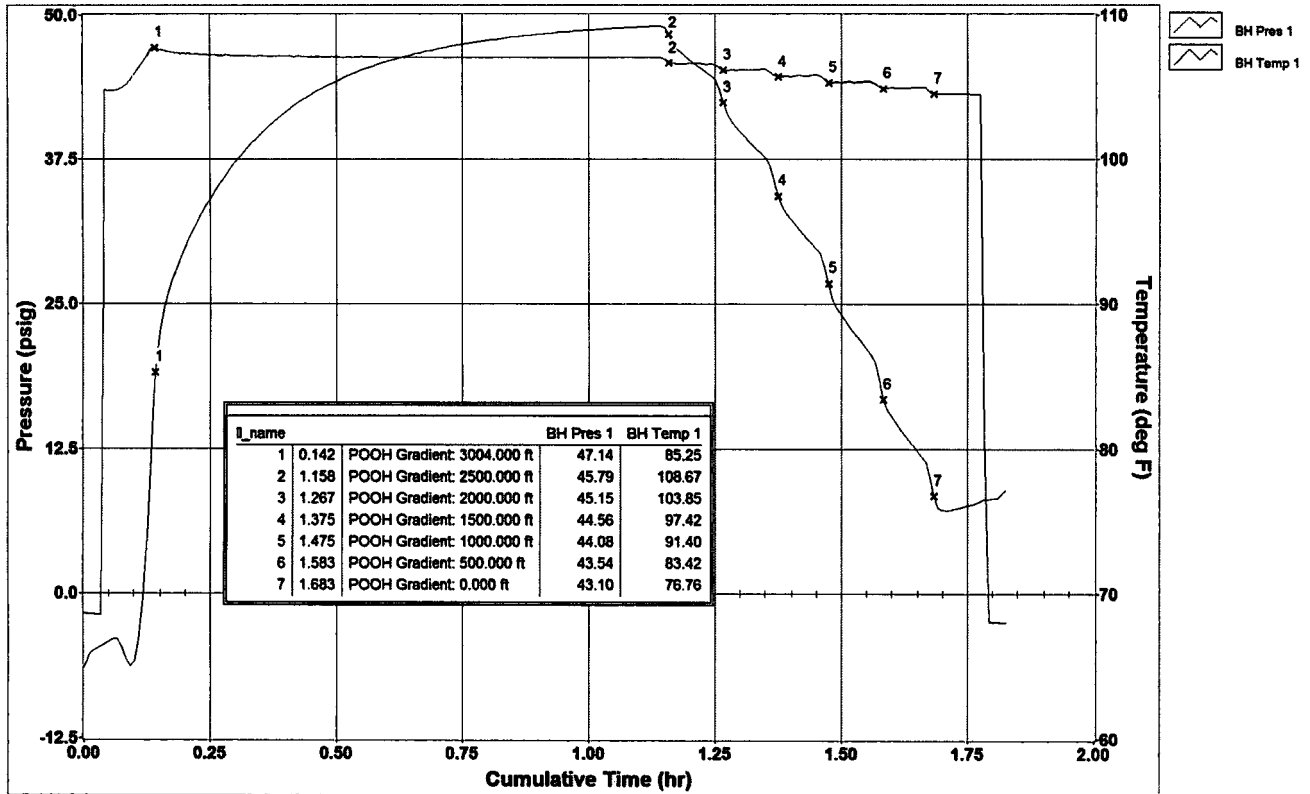
W1036 Depth vs. Pressure



W1036 Depth vs. Temperature



San Juan 30-5 Unit #216



Company Hilcorp
Well Name San Juan 30-5 Unit #216
Type of Test POOH Static Gradient
Date(s) of Test 5/23/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/23	09:23:32	0.0000	-1.707	64.908
2018/05/23	09:24:02	0.0083	-1.790	65.536
2018/05/23	09:24:32	0.0167	-1.776	66.000
2018/05/23	09:25:02	0.0250	-1.827	66.204
2018/05/23	09:25:32	0.0333	-1.861	66.337
2018/05/23	09:26:02	0.0417	43.394	66.529
2018/05/23	09:26:32	0.0500	43.368	66.690
2018/05/23	09:27:02	0.0583	43.351	66.830
2018/05/23	09:27:32	0.0667	43.407	66.861
2018/05/23	09:28:02	0.0750	43.582	66.268
2018/05/23	09:28:32	0.0833	43.880	65.419
2018/05/23	09:29:02	0.0917	44.271	64.980
2018/05/23	09:29:32	0.1000	44.747	65.313
2018/05/23	09:30:02	0.1083	45.260	66.807
2018/05/23	09:30:32	0.1167	45.864	69.706
2018/05/23	09:31:02	0.1250	46.403	73.958
2018/05/23	09:31:32	0.1333	47.003	79.482
POOH Gradient: 3004.000 ft				
2018/05/23	09:32:02	0.1417	47.145	85.246
2018/05/23	09:32:32	0.1500	46.974	88.039
2018/05/23	09:33:02	0.1583	46.935	89.584
2018/05/23	09:33:32	0.1667	46.818	90.702
2018/05/23	09:34:02	0.1750	46.739	91.632
2018/05/23	09:34:32	0.1833	46.694	92.430
2018/05/23	09:35:02	0.1917	46.648	93.168
2018/05/23	09:35:32	0.2000	46.630	93.852
2018/05/23	09:36:02	0.2083	46.623	94.482
2018/05/23	09:36:32	0.2167	46.539	95.077
2018/05/23	09:37:02	0.2250	46.561	95.646
2018/05/23	09:37:32	0.2333	46.532	96.190
2018/05/23	09:38:02	0.2417	46.511	96.705
2018/05/23	09:38:32	0.2500	46.528	97.198
2018/05/23	09:39:02	0.2583	46.486	97.671
2018/05/23	09:39:32	0.2667	46.460	98.110
2018/05/23	09:40:02	0.2750	46.470	98.546
2018/05/23	09:40:32	0.2833	46.482	98.971
2018/05/23	09:41:02	0.2917	46.445	99.369
2018/05/23	09:41:32	0.3000	46.407	99.739
2018/05/23	09:42:02	0.3083	46.470	100.105
2018/05/23	09:42:32	0.3167	46.427	100.434
2018/05/23	09:43:02	0.3250	46.432	100.762
2018/05/23	09:43:32	0.3333	46.398	101.084
2018/05/23	09:44:02	0.3417	46.360	101.379
2018/05/23	09:44:32	0.3500	46.425	101.678
2018/05/23	09:45:02	0.3583	46.409	101.955
2018/05/23	09:45:32	0.3667	46.375	102.227
2018/05/23	09:46:02	0.3750	46.371	102.479
2018/05/23	09:46:32	0.3833	46.384	102.727
2018/05/23	09:47:02	0.3917	46.391	102.963
2018/05/23	09:47:32	0.4000	46.384	103.201
2018/05/23	09:48:02	0.4083	46.365	103.426
2018/05/23	09:48:32	0.4167	46.352	103.645
2018/05/23	09:49:02	0.4250	46.371	103.833
2018/05/23	09:49:32	0.4333	46.356	104.032

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/23	09:50:02	0.4417	46.349	104.230
2018/05/23	09:50:32	0.4500	46.329	104.401
2018/05/23	09:51:02	0.4583	46.308	104.574
2018/05/23	09:51:32	0.4667	46.311	104.745
2018/05/23	09:52:02	0.4750	46.323	104.902
2018/05/23	09:52:32	0.4833	46.305	105.062
2018/05/23	09:53:02	0.4917	46.326	105.215
2018/05/23	09:53:32	0.5000	46.312	105.346
2018/05/23	09:54:02	0.5083	46.295	105.490
2018/05/23	09:54:32	0.5167	46.294	105.624
2018/05/23	09:55:02	0.5250	46.305	105.753
2018/05/23	09:55:32	0.5333	46.294	105.877
2018/05/23	09:56:02	0.5417	46.320	106.000
2018/05/23	09:56:32	0.5500	46.317	106.110
2018/05/23	09:57:02	0.5583	46.337	106.216
2018/05/23	09:57:32	0.5667	46.325	106.322
2018/05/23	09:58:02	0.5750	46.311	106.430
2018/05/23	09:58:32	0.5833	46.301	106.533
2018/05/23	09:59:02	0.5917	46.292	106.623
2018/05/23	09:59:32	0.6000	46.298	106.720
2018/05/23	10:00:02	0.6083	46.290	106.810
2018/05/23	10:00:32	0.6167	46.293	106.891
2018/05/23	10:01:02	0.6250	46.284	106.977
2018/05/23	10:01:32	0.6333	46.277	107.055
2018/05/23	10:02:02	0.6417	46.298	107.132
2018/05/23	10:02:32	0.6500	46.290	107.211
2018/05/23	10:03:02	0.6583	46.301	107.280
2018/05/23	10:03:32	0.6667	46.295	107.346
2018/05/23	10:04:02	0.6750	46.289	107.418
2018/05/23	10:04:32	0.6833	46.283	107.481
2018/05/23	10:05:02	0.6917	46.277	107.548
2018/05/23	10:05:32	0.7000	46.272	107.614
2018/05/23	10:06:02	0.7083	46.270	107.670
2018/05/23	10:06:32	0.7167	46.296	107.730
2018/05/23	10:07:02	0.7250	46.290	107.793
2018/05/23	10:07:32	0.7333	46.287	107.841
2018/05/23	10:08:02	0.7417	46.283	107.892
2018/05/23	10:08:32	0.7500	46.290	107.949
2018/05/23	10:09:02	0.7583	46.286	107.996
2018/05/23	10:09:32	0.7667	46.284	108.039
2018/05/23	10:10:02	0.7750	46.280	108.088
2018/05/23	10:10:32	0.7833	46.277	108.135
2018/05/23	10:11:02	0.7917	46.274	108.181
2018/05/23	10:11:32	0.8000	46.272	108.217
2018/05/23	10:12:02	0.8083	46.270	108.257
2018/05/23	10:12:32	0.8167	46.268	108.295
2018/05/23	10:13:02	0.8250	46.265	108.338
2018/05/23	10:13:32	0.8333	46.264	108.369
2018/05/23	10:14:02	0.8417	46.262	108.406
2018/05/23	10:14:32	0.8500	46.259	108.446
2018/05/23	10:15:02	0.8583	46.258	108.482
2018/05/23	10:15:32	0.8667	46.285	108.511
2018/05/23	10:16:02	0.8750	46.284	108.538
2018/05/23	10:16:32	0.8833	46.283	108.568

Company Name Hilcorp
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Type of Test POOH Static Gradient
Date(s) of Test 5/23/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/23	10:17:02	0.8917	46.282	108.599
2018/05/23	10:17:32	0.9000	46.281	108.626
2018/05/23	10:18:02	0.9083	46.280	108.658
2018/05/23	10:18:32	0.9167	46.279	108.685
2018/05/23	10:19:02	0.9250	46.278	108.716
2018/05/23	10:19:32	0.9333	46.273	108.738
2018/05/23	10:20:02	0.9417	46.272	108.766
2018/05/23	10:20:32	0.9500	46.272	108.784
2018/05/23	10:21:02	0.9583	46.272	108.810
2018/05/23	10:21:32	0.9667	46.271	108.838
2018/05/23	10:22:02	0.9750	46.271	108.860
2018/05/23	10:22:32	0.9833	46.268	108.882
2018/05/23	10:23:02	0.9917	46.264	108.909
2018/05/23	10:23:32	1.0000	46.265	108.927
2018/05/23	10:24:02	1.0083	46.262	108.946
2018/05/23	10:24:32	1.0167	46.262	108.970
2018/05/23	10:25:02	1.0250	46.263	108.988
2018/05/23	10:25:32	1.0333	46.263	109.006
2018/05/23	10:26:02	1.0417	46.264	109.026
2018/05/23	10:26:32	1.0500	46.264	109.045
2018/05/23	10:27:02	1.0583	46.265	109.060
2018/05/23	10:27:32	1.0667	46.266	109.074
2018/05/23	10:28:02	1.0750	46.263	109.098
2018/05/23	10:28:32	1.0833	46.263	109.117
2018/05/23	10:29:02	1.0917	46.258	109.134
2018/05/23	10:29:32	1.1000	46.257	109.146
2018/05/23	10:30:02	1.1083	46.258	109.155
2018/05/23	10:30:32	1.1167	46.258	109.175
2018/05/23	10:31:02	1.1250	46.260	109.186
2018/05/23	10:31:32	1.1333	46.261	109.202
2018/05/23	10:32:02	1.1417	46.255	109.225
2018/05/23	10:32:32	1.1500	46.074	109.103
POOH Gradient: 2500.000 ft				
2018/05/23	10:33:02	1.1583	45.789	108.667
2018/05/23	10:33:32	1.1667	45.733	107.996
2018/05/23	10:34:02	1.1750	45.666	107.607
2018/05/23	10:34:32	1.1833	45.700	107.321
2018/05/23	10:35:02	1.1917	45.691	107.051
2018/05/23	10:35:32	1.2000	45.719	106.813
2018/05/23	10:36:02	1.2083	45.746	106.588
2018/05/23	10:36:32	1.2167	45.750	106.369
2018/05/23	10:37:02	1.2250	45.716	106.156
2018/05/23	10:37:32	1.2333	45.651	105.957
2018/05/23	10:38:02	1.2417	45.678	105.753
2018/05/23	10:38:32	1.2500	45.610	105.503
2018/05/23	10:39:02	1.2583	45.357	104.833
POOH Gradient: 2000.000 ft				
2018/05/23	10:39:32	1.2667	45.152	103.851
2018/05/23	10:40:02	1.2750	45.110	102.999
2018/05/23	10:40:32	1.2833	45.163	102.553
2018/05/23	10:41:02	1.2917	45.123	102.175
2018/05/23	10:41:32	1.3000	45.149	101.833
2018/05/23	10:42:02	1.3083	45.154	101.512
2018/05/23	10:42:32	1.3167	45.194	101.208

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/23	10:43:02	1.3250	45.143	100.915
2018/05/23	10:43:32	1.3333	45.184	100.623
2018/05/23	10:44:02	1.3417	45.222	100.350
2018/05/23	10:44:32	1.3500	45.196	100.078
2018/05/23	10:45:02	1.3583	44.973	99.603
2018/05/23	10:45:32	1.3667	44.722	98.622
POOH Gradient: 1500.000 ft				
2018/05/23	10:46:02	1.3750	44.560	97.423
2018/05/23	10:46:32	1.3833	44.575	96.714
2018/05/23	10:47:02	1.3917	44.630	96.260
2018/05/23	10:47:32	1.4000	44.607	95.869
2018/05/23	10:48:02	1.4083	44.651	95.499
2018/05/23	10:48:32	1.4167	44.675	95.151
2018/05/23	10:49:02	1.4250	44.626	94.813
2018/05/23	10:49:32	1.4333	44.669	94.483
2018/05/23	10:50:02	1.4417	44.702	94.165
2018/05/23	10:50:32	1.4500	44.737	93.843
2018/05/23	10:51:02	1.4583	44.646	93.528
2018/05/23	10:51:32	1.4667	44.390	92.673
POOH Gradient: 1000.000 ft				
2018/05/23	10:52:02	1.4750	44.085	91.398
2018/05/23	10:52:32	1.4833	44.043	90.277
2018/05/23	10:53:02	1.4917	44.094	89.717
2018/05/23	10:53:32	1.5000	44.043	89.256
2018/05/23	10:54:02	1.5083	44.107	88.828
2018/05/23	10:54:32	1.5167	44.169	88.428
2018/05/23	10:55:02	1.5250	44.077	88.041
2018/05/23	10:55:32	1.5333	44.134	87.661
2018/05/23	10:56:02	1.5417	44.124	87.294
2018/05/23	10:56:32	1.5500	44.172	86.938
2018/05/23	10:57:02	1.5583	44.172	86.578
2018/05/23	10:57:32	1.5667	43.957	85.989
2018/05/23	10:58:02	1.5750	43.733	84.776
POOH Gradient: 500.000 ft				
2018/05/23	10:58:32	1.5833	43.538	83.417
2018/05/23	10:59:02	1.5917	43.616	82.708
2018/05/23	10:59:32	1.6000	43.639	82.218
2018/05/23	11:00:02	1.6083	43.607	81.788
2018/05/23	11:00:32	1.6167	43.601	81.385
2018/05/23	11:01:02	1.6250	43.619	80.994
2018/05/23	11:01:32	1.6333	43.617	80.616
2018/05/23	11:02:02	1.6417	43.675	80.251
2018/05/23	11:02:32	1.6500	43.680	79.882
2018/05/23	11:03:02	1.6583	43.680	79.525
2018/05/23	11:03:32	1.6667	43.634	79.140
2018/05/23	11:04:02	1.6750	43.254	78.093
POOH Gradient: 0.000 ft				
2018/05/23	11:04:32	1.6833	43.096	76.757
2018/05/23	11:05:02	1.6917	43.072	75.934
2018/05/23	11:05:32	1.7000	43.097	75.774
2018/05/23	11:06:02	1.7083	43.096	75.769
2018/05/23	11:06:32	1.7167	43.085	75.816
2018/05/23	11:07:02	1.7250	43.077	75.879
2018/05/23	11:07:32	1.7333	43.064	75.956

Company Hilcorp
Well Name San Juan 30-5 Unit #216
Type of Test POOH Static Gradient
Date(s) of Test 5/23/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/23	11:08:02	1.7417	43.052	76.037
2018/05/23	11:08:32	1.7500	43.042	76.114
2018/05/23	11:09:02	1.7583	43.031	76.192
2018/05/23	11:09:32	1.7667	43.022	76.276
2018/05/23	11:10:02	1.7750	43.007	76.383
2018/05/23	11:10:32	1.7833	13.512	76.559
2018/05/23	11:11:02	1.7917	-2.410	76.555
2018/05/23	11:11:32	1.8000	-2.417	76.573
2018/05/23	11:12:02	1.8083	-2.420	76.577
2018/05/23	11:12:32	1.8167	-2.479	76.849