

mk

Pressure Test Report

COMPANY INFORMATION

Company Name	Hilcorp
Representative	Priscilla Shorty
Phone	
Fax	
Address	

NMOCD

JUN 04 2018

DISTRICT III

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

WELL INFORMATION

Well Name	San Juan 31-6 Unit #205
Well Location	T31N, R6W, Sec 4
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	2148-3208
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13
Casing Flange (CF)	
KB-CF	
Ground Level	6441
Plug Back Total Depth	3282
Total Depth	3282
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	5/29/18
Dead-weight Gauge Tubing Pressure	40
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/29/18 @0943
Date / Time off Bottom	5/29/18 @1043
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3260

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	103.3 psig
Maximum Recorded Probe Temperature	113.9 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 31-6 Unit #205
Type of Test POOH Static Gradient
Date(s) of Test 5/29/18



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

Cor	/	Hilcorp
Well Name		San Juan 31-6 Unit #205
Type of Test		POOH Static Gradient
Date(s) of Test		5/29/18



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @3264 WLM. RIH with BHP gauge to 3260 for 1 hour, then POOH making 5 minute stops per request.

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Pressure vs. Depth

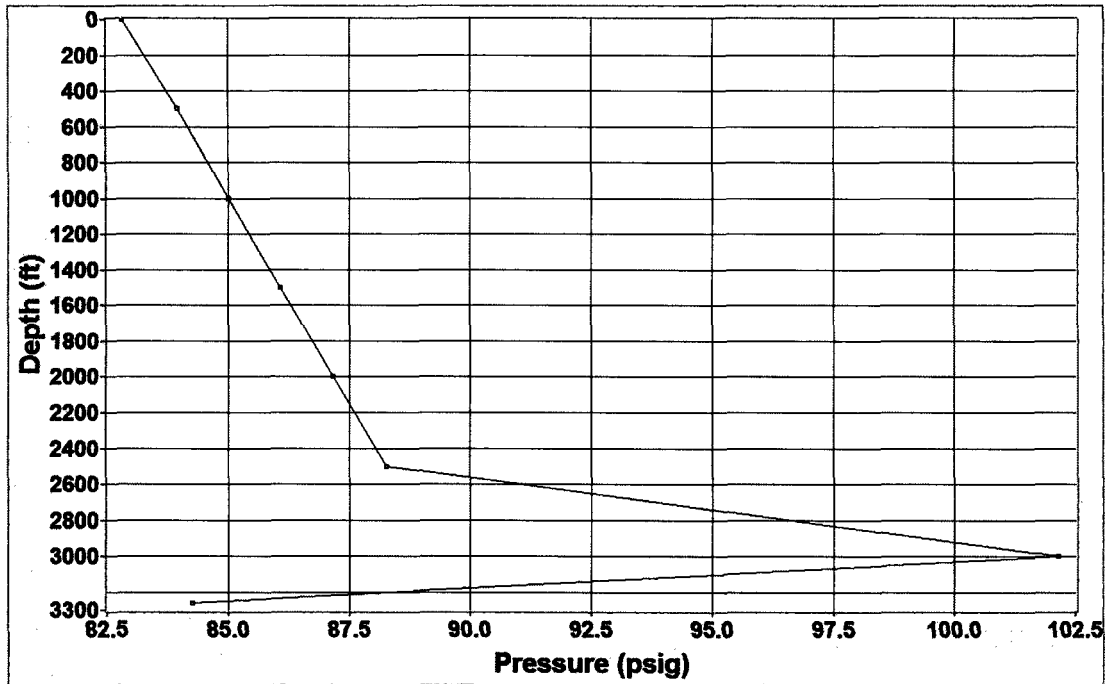
Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0943	1043	3260.000	84.257	-	66.254	-
1043	1048	3000.000	102.132	-0.0687	113.853	-0.1831
1050	1055	2500.000	88.272	0.0277	111.628	0.0044
1056	1101	2000.000	87.156	0.0022	105.656	0.0119
1102	1107	1500.000	86.078	0.0022	98.595	0.0141
1109	1114	1000.000	85.008	0.0021	90.691	0.0158
1115	1120	500.000	83.947	0.0021	83.008	0.0154
1121	1126	0.000	82.810	0.0023	75.240	0.0155

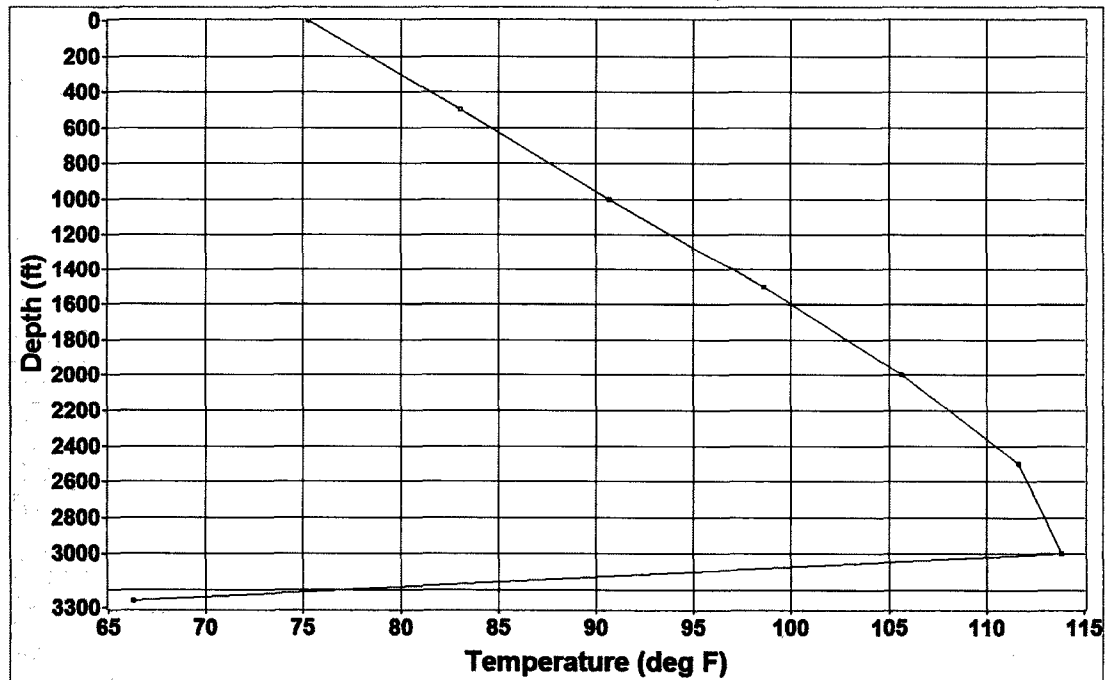
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

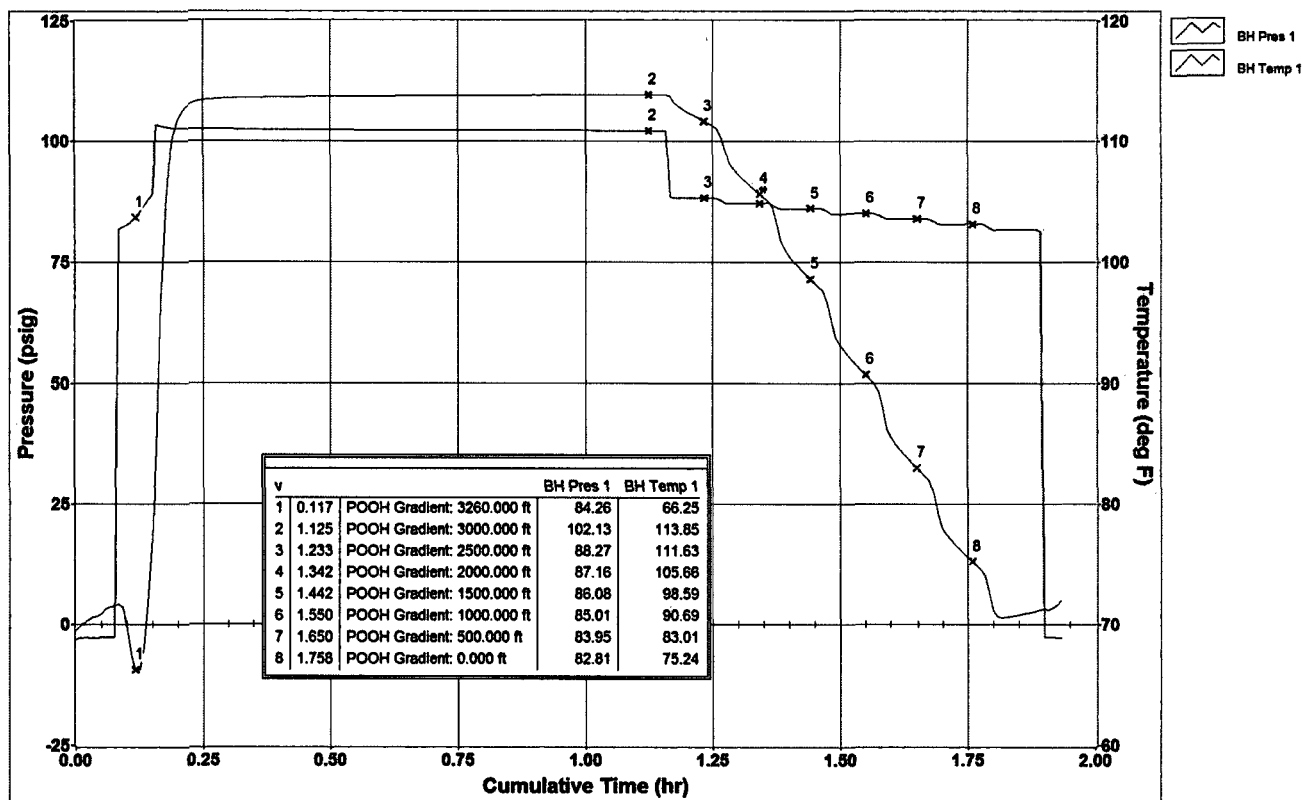
W1036 Depth vs. Pressure



W1036 Depth vs. Temperature



San Juan 31-6 Unit #205



Company Name Hilcorp
Well Name San Juan 31-6 Unit #205
Type of Test POOH Static Gradient
Date(s) of Test 5/29/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	09:36:17	0.0000	-3.048	69.492
2018/05/29	09:36:47	0.0083	-2.780	69.850
2018/05/29	09:37:17	0.0167	-2.662	70.142
2018/05/29	09:37:47	0.0250	-2.717	70.385
2018/05/29	09:38:17	0.0333	-2.755	70.614
2018/05/29	09:38:47	0.0417	-2.737	70.700
2018/05/29	09:39:17	0.0500	-2.669	70.896
2018/05/29	09:39:47	0.0583	-2.604	71.317
2018/05/29	09:40:17	0.0667	-2.602	71.467
2018/05/29	09:40:47	0.0750	-2.609	71.521
2018/05/29	09:41:17	0.0833	81.795	71.676
2018/05/29	09:41:47	0.0917	82.164	71.400
2018/05/29	09:42:17	0.1000	82.696	69.679
2018/05/29	09:42:47	0.1083	83.406	67.602
POOH Gradient: 3260.000 ft				
2018/05/29	09:43:17	0.1167	84.257	66.254
2018/05/29	09:43:47	0.1250	85.354	66.272
2018/05/29	09:44:17	0.1333	86.555	68.086
2018/05/29	09:44:47	0.1417	87.801	71.794
2018/05/29	09:45:17	0.1500	89.131	77.175
2018/05/29	09:45:47	0.1583	103.314	84.553
2018/05/29	09:46:17	0.1667	103.233	96.780
2018/05/29	09:46:47	0.1750	102.972	103.953
2018/05/29	09:47:17	0.1833	102.777	108.043
2018/05/29	09:47:47	0.1917	102.678	110.332
2018/05/29	09:48:17	0.2000	102.632	111.619
2018/05/29	09:48:47	0.2083	102.593	112.366
2018/05/29	09:49:17	0.2167	102.567	112.795
2018/05/29	09:49:47	0.2250	102.549	113.063
2018/05/29	09:50:17	0.2333	102.538	113.227
2018/05/29	09:50:47	0.2417	102.529	113.329
2018/05/29	09:51:17	0.2500	102.511	113.400
2018/05/29	09:51:47	0.2583	102.497	113.448
2018/05/29	09:52:17	0.2667	102.493	113.482
2018/05/29	09:52:47	0.2750	102.488	113.520
2018/05/29	09:53:17	0.2833	102.476	113.538
2018/05/29	09:53:47	0.2917	102.458	113.558
2018/05/29	09:54:17	0.3000	102.454	113.569
2018/05/29	09:54:47	0.3083	102.451	113.581
2018/05/29	09:55:17	0.3167	102.410	113.598
2018/05/29	09:55:47	0.3250	102.407	113.612
2018/05/29	09:56:17	0.3333	102.404	113.619
2018/05/29	09:56:47	0.3417	102.400	113.626
2018/05/29	09:57:17	0.3500	102.397	113.637
2018/05/29	09:57:47	0.3583	102.394	113.648
2018/05/29	09:58:17	0.3667	102.391	113.644
2018/05/29	09:58:47	0.3750	102.387	113.657
2018/05/29	09:59:17	0.3833	102.384	113.664
2018/05/29	09:59:47	0.3917	102.381	113.673
2018/05/29	10:00:17	0.4000	102.378	113.675
2018/05/29	10:00:47	0.4083	102.372	113.682
2018/05/29	10:01:17	0.4167	102.369	113.680
2018/05/29	10:01:47	0.4250	102.361	113.686
2018/05/29	10:02:17	0.4333	102.357	113.700

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	10:02:47	0.4417	102.354	113.697
2018/05/29	10:03:17	0.4500	102.351	113.700
2018/05/29	10:03:47	0.4583	102.339	113.713
2018/05/29	10:04:17	0.4667	102.336	113.715
2018/05/29	10:04:47	0.4750	102.333	113.722
2018/05/29	10:05:17	0.4833	102.334	113.715
2018/05/29	10:05:47	0.4917	102.330	113.722
2018/05/29	10:06:17	0.5000	102.327	113.724
2018/05/29	10:06:47	0.5083	102.291	113.724
2018/05/29	10:07:17	0.5167	102.291	113.725
2018/05/29	10:07:47	0.5250	102.287	113.736
2018/05/29	10:08:17	0.5333	102.287	113.734
2018/05/29	10:08:47	0.5417	102.284	113.740
2018/05/29	10:09:17	0.5500	102.279	113.738
2018/05/29	10:09:47	0.5583	102.276	113.742
2018/05/29	10:10:17	0.5667	102.272	113.751
2018/05/29	10:10:47	0.5750	102.270	113.751
2018/05/29	10:11:17	0.5833	102.267	113.751
2018/05/29	10:11:47	0.5917	102.264	113.752
2018/05/29	10:12:17	0.6000	102.261	113.754
2018/05/29	10:12:47	0.6083	102.261	113.761
2018/05/29	10:13:17	0.6167	102.258	113.765
2018/05/29	10:13:47	0.6250	102.255	113.758
2018/05/29	10:14:17	0.6333	102.252	113.767
2018/05/29	10:14:47	0.6417	102.249	113.767
2018/05/29	10:15:17	0.6500	102.246	113.770
2018/05/29	10:15:47	0.6583	102.243	113.769
2018/05/29	10:16:17	0.6667	102.240	113.776
2018/05/29	10:16:47	0.6750	102.237	113.778
2018/05/29	10:17:17	0.6833	102.234	113.776
2018/05/29	10:17:47	0.6917	102.231	113.787
2018/05/29	10:18:17	0.7000	102.228	113.787
2018/05/29	10:18:47	0.7083	102.226	113.783
2018/05/29	10:19:17	0.7167	102.223	113.783
2018/05/29	10:19:47	0.7250	102.220	113.790
2018/05/29	10:20:17	0.7333	102.217	113.790
2018/05/29	10:20:47	0.7417	102.216	113.797
2018/05/29	10:21:17	0.7500	102.214	113.797
2018/05/29	10:21:47	0.7583	102.211	113.799
2018/05/29	10:22:17	0.7667	102.211	113.796
2018/05/29	10:22:47	0.7750	102.208	113.805
2018/05/29	10:23:17	0.7833	102.205	113.792
2018/05/29	10:23:47	0.7917	102.202	113.799
2018/05/29	10:24:17	0.8000	102.202	113.801
2018/05/29	10:24:47	0.8083	102.199	113.805
2018/05/29	10:25:17	0.8167	102.196	113.806
2018/05/29	10:25:47	0.8250	102.193	113.808
2018/05/29	10:26:17	0.8333	102.191	113.803
2018/05/29	10:26:47	0.8417	102.187	113.812
2018/05/29	10:27:17	0.8500	102.185	113.812
2018/05/29	10:27:47	0.8583	102.184	113.819
2018/05/29	10:28:17	0.8667	102.182	113.817
2018/05/29	10:28:47	0.8750	102.184	113.814
2018/05/29	10:29:17	0.8833	102.182	113.815

Company Name Hilcorp
Well Name San Juan 31-6 Unit #205
Type of Test POOH Static Gradient
Date(s) of Test 5/29/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	10:29:47	0.8917	102.179	113.819
2018/05/29	10:30:17	0.9000	102.178	113.824
2018/05/29	10:30:47	0.9083	102.176	113.821
2018/05/29	10:31:17	0.9167	102.173	113.824
2018/05/29	10:31:47	0.9250	102.170	113.823
2018/05/29	10:32:17	0.9333	102.167	113.824
2018/05/29	10:32:47	0.9417	102.164	113.832
2018/05/29	10:33:17	0.9500	102.161	113.830
2018/05/29	10:33:47	0.9583	102.158	113.826
2018/05/29	10:34:17	0.9667	102.155	113.832
2018/05/29	10:34:47	0.9750	102.155	113.837
2018/05/29	10:35:17	0.9833	102.152	113.835
2018/05/29	10:35:47	0.9917	102.150	113.833
2018/05/29	10:36:17	1.0000	102.147	113.833
2018/05/29	10:36:47	1.0083	102.144	113.841
2018/05/29	10:37:17	1.0167	102.143	113.844
2018/05/29	10:37:47	1.0250	102.141	113.837
2018/05/29	10:38:17	1.0333	102.141	113.837
2018/05/29	10:38:47	1.0417	102.132	113.842
2018/05/29	10:39:17	1.0500	102.129	113.844
2018/05/29	10:39:47	1.0583	102.126	113.848
2018/05/29	10:40:17	1.0667	102.129	113.848
2018/05/29	10:40:47	1.0750	102.126	113.848
2018/05/29	10:41:17	1.0833	102.124	113.844
2018/05/29	10:41:47	1.0917	102.121	113.850
2018/05/29	10:42:17	1.1000	102.123	113.851
2018/05/29	10:42:47	1.1083	102.126	113.846
2018/05/29	10:43:17	1.1167	102.129	113.848
POOH Gradient: 3000.000 ft				
2018/05/29	10:43:47	1.1250	102.132	113.853
2018/05/29	10:44:17	1.1333	102.134	113.855
2018/05/29	10:44:47	1.1417	102.131	113.859
2018/05/29	10:45:17	1.1500	102.134	113.860
2018/05/29	10:45:47	1.1583	102.137	113.860
2018/05/29	10:46:17	1.1667	88.361	113.745
2018/05/29	10:46:47	1.1750	88.256	113.166
2018/05/29	10:47:17	1.1833	88.277	112.840
2018/05/29	10:47:47	1.1917	88.286	112.602
2018/05/29	10:48:17	1.2000	88.298	112.395
2018/05/29	10:48:47	1.2083	88.287	112.194
2018/05/29	10:49:17	1.2167	88.265	112.003
2018/05/29	10:49:47	1.2250	88.276	111.812
POOH Gradient: 2500.000 ft				
2018/05/29	10:50:17	1.2333	88.272	111.628
2018/05/29	10:50:47	1.2417	88.283	111.452
2018/05/29	10:51:17	1.2500	88.276	111.277
2018/05/29	10:51:47	1.2583	88.067	111.070
2018/05/29	10:52:17	1.2667	87.605	110.340
2018/05/29	10:52:47	1.2750	87.163	109.198
2018/05/29	10:53:17	1.2833	87.173	108.151
2018/05/29	10:53:47	1.2917	87.150	107.661
2018/05/29	10:54:17	1.3000	87.153	107.272
2018/05/29	10:54:47	1.3083	87.165	106.918
2018/05/29	10:55:17	1.3167	87.094	106.585

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	10:55:47	1.3250	87.112	106.264
2018/05/29	10:56:17	1.3333	87.135	105.953
POOH Gradient: 2000.000 ft				
2018/05/29	10:56:47	1.3417	87.156	105.656
2018/05/29	10:57:17	1.3500	87.178	105.357
2018/05/29	10:57:47	1.3583	87.190	105.076
2018/05/29	10:58:17	1.3667	86.780	104.544
2018/05/29	10:58:47	1.3750	86.316	103.325
2018/05/29	10:59:17	1.3833	86.040	101.838
2018/05/29	10:59:47	1.3917	85.952	100.994
2018/05/29	11:00:17	1.4000	85.985	100.495
2018/05/29	11:00:47	1.4083	86.021	100.063
2018/05/29	11:01:17	1.4167	86.020	99.684
2018/05/29	11:01:47	1.4250	86.054	99.309
2018/05/29	11:02:17	1.4333	86.051	98.949
POOH Gradient: 1500.000 ft				
2018/05/29	11:02:47	1.4417	86.078	98.595
2018/05/29	11:03:17	1.4500	86.090	98.258
2018/05/29	11:03:47	1.4583	86.100	97.936
2018/05/29	11:04:17	1.4667	85.946	97.608
2018/05/29	11:04:47	1.4750	85.498	96.622
2018/05/29	11:05:17	1.4833	84.944	95.157
2018/05/29	11:05:47	1.4917	84.861	93.798
2018/05/29	11:06:17	1.5000	84.923	93.175
2018/05/29	11:06:47	1.5083	84.941	92.694
2018/05/29	11:07:17	1.5167	84.983	92.250
2018/05/29	11:07:47	1.5250	85.012	91.836
2018/05/29	11:08:17	1.5333	85.016	91.441
2018/05/29	11:08:47	1.5417	84.973	91.058
POOH Gradient: 1000.000 ft				
2018/05/29	11:09:17	1.5500	85.008	90.691
2018/05/29	11:09:47	1.5583	85.023	90.329
2018/05/29	11:10:17	1.5667	84.978	89.973
2018/05/29	11:10:47	1.5750	84.628	89.368
2018/05/29	11:11:17	1.5833	84.185	87.955
2018/05/29	11:11:47	1.5917	83.867	86.302
2018/05/29	11:12:17	1.6000	83.906	85.476
2018/05/29	11:12:47	1.6083	83.847	84.967
2018/05/29	11:13:17	1.6167	83.893	84.531
2018/05/29	11:13:47	1.6250	83.882	84.121
2018/05/29	11:14:17	1.6333	83.922	83.737
2018/05/29	11:14:47	1.6417	83.912	83.368
POOH Gradient: 500.000 ft				
2018/05/29	11:15:17	1.6500	83.947	83.008
2018/05/29	11:15:47	1.6583	83.965	82.650
2018/05/29	11:16:17	1.6667	83.966	82.308
2018/05/29	11:16:47	1.6750	83.806	81.954
2018/05/29	11:17:17	1.6833	83.329	80.803
2018/05/29	11:17:47	1.6917	82.757	79.196
2018/05/29	11:18:17	1.7000	82.767	78.019
2018/05/29	11:18:47	1.7083	82.818	77.472
2018/05/29	11:19:17	1.7167	82.791	77.043
2018/05/29	11:19:47	1.7250	82.809	76.647
2018/05/29	11:20:17	1.7333	82.832	76.280

Company Name Hilcorp
Well Name San Juan 31-6 Unit #205
Type of Test POOH Static Gradient
Date(s) of Test 5/29/16



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/29	11:20:47	1.7417	82.835	75.920
2018/05/29	11:21:17	1.7500	82.874	75.574
POOH Gradient: 0.000 ft				
2018/05/29	11:21:47	1.7583	82.810	75.240
2018/05/29	11:22:17	1.7667	82.848	74.908
2018/05/29	11:22:47	1.7750	82.884	74.592
2018/05/29	11:23:17	1.7833	82.572	74.086
2018/05/29	11:23:47	1.7917	82.000	72.716
2018/05/29	11:24:17	1.8000	81.586	71.197
2018/05/29	11:24:47	1.8083	81.636	70.671
2018/05/29	11:25:17	1.8167	81.645	70.585
2018/05/29	11:25:47	1.8250	81.643	70.599
2018/05/29	11:26:17	1.8333	81.634	70.666
2018/05/29	11:26:47	1.8417	81.629	70.725
2018/05/29	11:27:17	1.8500	81.651	70.806
2018/05/29	11:27:47	1.8583	81.644	70.882
2018/05/29	11:28:17	1.8667	81.637	70.957
2018/05/29	11:28:47	1.8750	81.630	71.037
2018/05/29	11:29:17	1.8833	81.622	71.119
2018/05/29	11:29:47	1.8917	81.179	71.260
2018/05/29	11:30:17	1.9000	-2.567	71.317
2018/05/29	11:30:47	1.9083	-2.641	71.224
2018/05/29	11:31:17	1.9167	-2.679	71.384
2018/05/29	11:31:47	1.9250	-2.705	71.620