

SAN JUAN 31-6 UNIT 225
30-039-24522

mk

Pressure Test Report

COMPANY INFORMATION

Company Name	Hilcorp
Representative	Priscilla Shorty
Phone	
Fax	
Address	

MMOCD

JUN 04 2018

DISTRICT III

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

WELL INFORMATION

Well Name	San Juan 31-6 Unit #225
Well Location	T31N, R6W, Sec 31
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	2957-3007
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13
Casing Flange (CF)	
KB-CF	
Ground Level	6207
Plug Back Total Depth	3053
Total Depth	3053
Production Casing	5 1/2 to 3052
Production Tubing	2 3/8 to 2926

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/30/18
Dead-weight Gauge Tubing Pressure	75
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/30/18 @0934
Date / Time off Bottom	5/30/18 @1034
Probe Serial Number	W1031
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3021

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	121.0 psig
Maximum Recorded Probe Temperature	113.4 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 #225
Type of Test POOH Static Gradient
Date(s) of Test 5/30/18



PROBE INFORMATION

Probe Serial Number W1031
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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Type of Test	POOH Static Gradient
Date(s) of Test	5/30/18



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @3025 WLM. RIH with BHP gauge to 3021 for 1 hour, then POOH making 5 second stops per request.

Company Name Hilcorp
Well Name San Juan 31-6 Unit #225
Type of Test PGOH Static Gradient
Date(s) of Test 5/30/18



Pressure vs. Depth

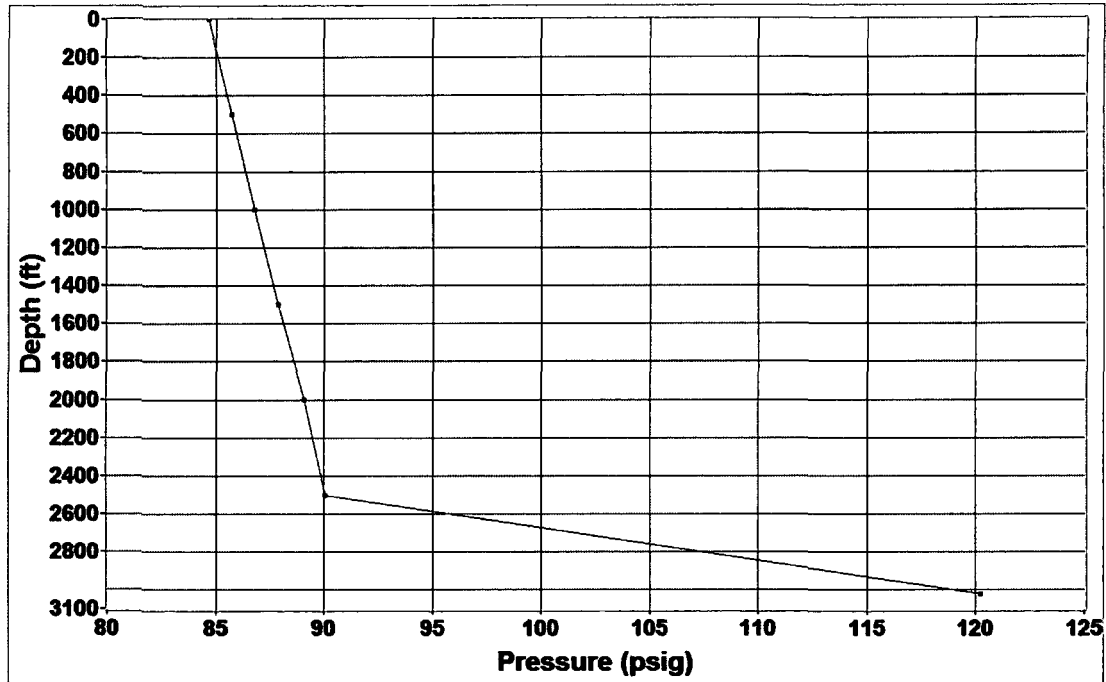
Probe Serial Number W1031

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0934	1034	3021.000	120.226	-	96.368	-
1036	1041	2500.000	90.060	0.0579	110.570	-0.0273
1042	1047	2000.000	89.095	0.0019	104.900	0.0113
1048	1053	1500.000	87.886	0.0024	96.620	0.0166
1055	1100	1000.000	86.799	0.0022	87.980	0.0173
1101	1106	500.000	85.743	0.0021	79.916	0.0161
1107	1112	0.000	84.706	0.0021	72.518	0.0148

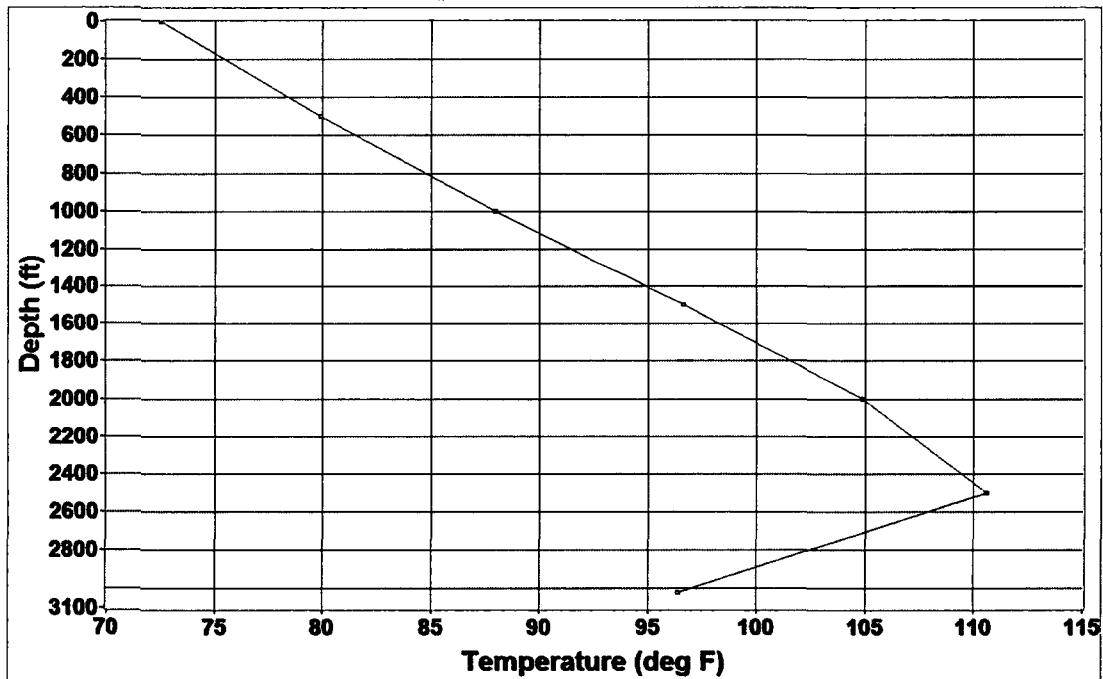
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

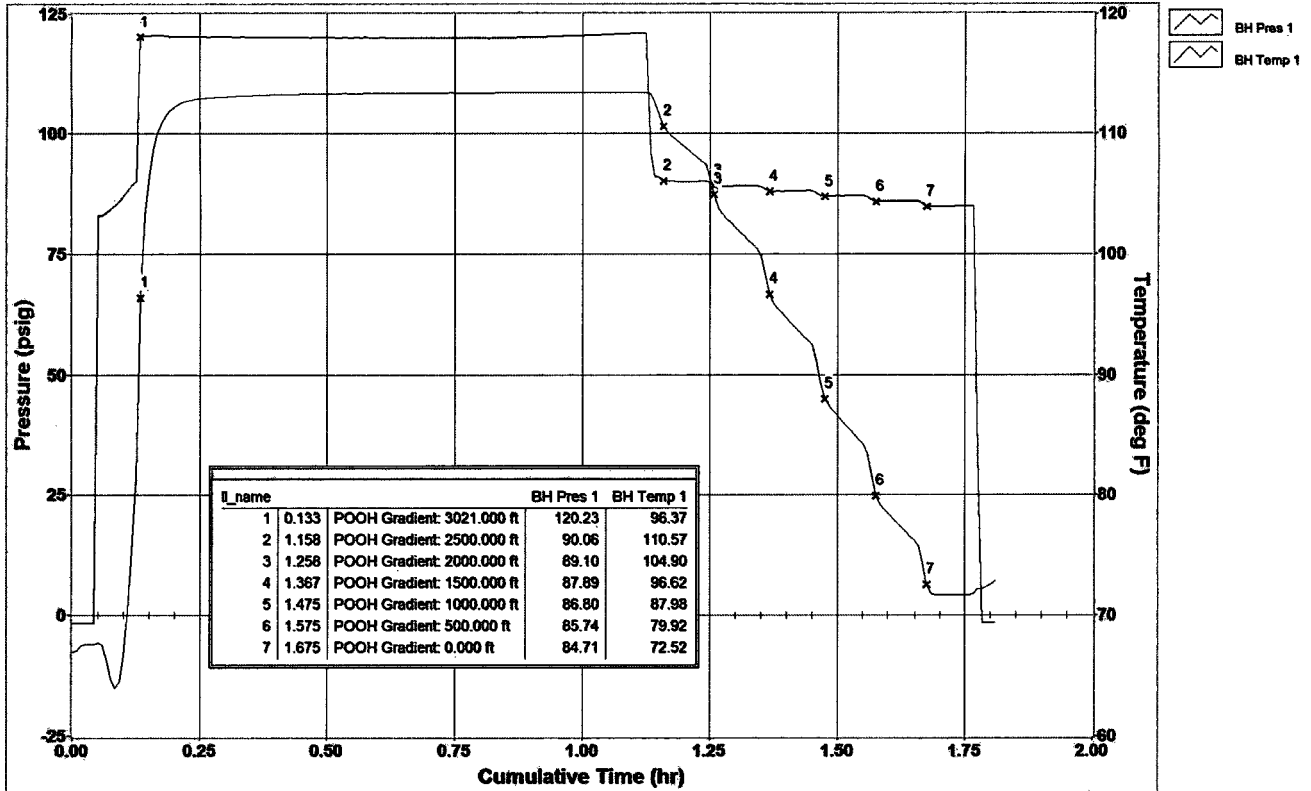
W1031 Depth vs. Pressure



W1031 Depth vs. Temperature



San Juan 31-6 Unit #225



Company Name Hilcorp
Well Name San Juan 31-6 Unit #225
Type of Test POOH Static Gradient
Date(s) of Test 5/30/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/30	09:26:52	0.0000	-1.642	66.992
2018/05/30	09:27:22	0.0083	-1.651	67.064
2018/05/30	09:27:52	0.0167	-1.635	67.478
2018/05/30	09:28:22	0.0250	-1.626	67.604
2018/05/30	09:28:52	0.0333	-1.633	67.604
2018/05/30	09:29:22	0.0417	-1.630	67.604
2018/05/30	09:29:52	0.0500	82.883	67.730
2018/05/30	09:30:22	0.0583	82.986	67.550
2018/05/30	09:30:52	0.0667	83.556	66.200
2018/05/30	09:31:22	0.0750	84.264	64.688
2018/05/30	09:31:52	0.0833	85.072	63.968
2018/05/30	09:32:22	0.0917	86.012	64.508
2018/05/30	09:32:52	0.1000	87.026	66.722
2018/05/30	09:33:22	0.1083	88.050	70.394
2018/05/30	09:33:52	0.1167	89.192	75.380
2018/05/30	09:34:22	0.1250	90.196	81.554
POOH Gradient: 3021.000 ft				
2018/05/30	09:34:52	0.1333	120.226	96.368
2018/05/30	09:35:22	0.1417	120.376	103.172
2018/05/30	09:35:52	0.1500	120.439	106.448
2018/05/30	09:36:22	0.1583	120.579	108.572
2018/05/30	09:36:52	0.1667	120.574	109.940
2018/05/30	09:37:22	0.1750	120.531	110.858
2018/05/30	09:37:52	0.1833	120.413	111.470
2018/05/30	09:38:22	0.1917	120.286	111.902
2018/05/30	09:38:52	0.2000	120.181	112.190
2018/05/30	09:39:22	0.2083	120.184	112.388
2018/05/30	09:39:52	0.2167	120.228	112.550
2018/05/30	09:40:22	0.2250	120.242	112.676
2018/05/30	09:40:52	0.2333	120.259	112.748
2018/05/30	09:41:22	0.2417	120.193	112.820
2018/05/30	09:41:52	0.2500	120.230	112.874
2018/05/30	09:42:22	0.2583	120.213	112.910
2018/05/30	09:42:52	0.2667	120.161	112.964
2018/05/30	09:43:22	0.2750	120.229	112.982
2018/05/30	09:43:52	0.2833	120.215	113.000
2018/05/30	09:44:22	0.2917	120.190	113.036
2018/05/30	09:44:52	0.3000	120.204	113.036
2018/05/30	09:45:22	0.3083	120.196	113.054
2018/05/30	09:45:52	0.3167	120.174	113.072
2018/05/30	09:46:22	0.3250	120.139	113.108
2018/05/30	09:46:52	0.3333	120.184	113.108
2018/05/30	09:47:22	0.3417	120.145	113.126
2018/05/30	09:47:52	0.3500	120.159	113.144
2018/05/30	09:48:22	0.3583	120.104	113.162
2018/05/30	09:48:52	0.3667	120.145	113.180
2018/05/30	09:49:22	0.3750	120.174	113.198
2018/05/30	09:49:52	0.3833	120.135	113.198
2018/05/30	09:50:22	0.3917	120.119	113.216
2018/05/30	09:50:52	0.4000	120.083	113.216
2018/05/30	09:51:22	0.4083	120.151	113.234
2018/05/30	09:51:52	0.4167	120.114	113.234
2018/05/30	09:52:22	0.4250	120.110	113.234
2018/05/30	09:52:52	0.4333	120.098	113.252

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/30	09:53:22	0.4417	120.075	113.252
2018/05/30	09:53:52	0.4500	120.069	113.270
2018/05/30	09:54:22	0.4583	120.083	113.270
2018/05/30	09:54:52	0.4667	120.030	113.270
2018/05/30	09:55:22	0.4750	120.072	113.270
2018/05/30	09:55:52	0.4833	120.038	113.270
2018/05/30	09:56:22	0.4917	120.065	113.288
2018/05/30	09:56:52	0.5000	120.046	113.288
2018/05/30	09:57:22	0.5083	120.078	113.288
2018/05/30	09:57:52	0.5167	120.030	113.306
2018/05/30	09:58:22	0.5250	120.033	113.306
2018/05/30	09:58:52	0.5333	120.080	113.324
2018/05/30	09:59:22	0.5417	120.023	113.306
2018/05/30	09:59:52	0.5500	120.025	113.306
2018/05/30	10:00:22	0.5583	120.042	113.306
2018/05/30	10:00:52	0.5667	120.027	113.306
2018/05/30	10:01:22	0.5750	120.067	113.324
2018/05/30	10:01:52	0.5833	120.019	113.324
2018/05/30	10:02:22	0.5917	120.000	113.324
2018/05/30	10:02:52	0.6000	119.988	113.342
2018/05/30	10:03:22	0.6083	120.043	113.342
2018/05/30	10:03:52	0.6167	119.994	113.342
2018/05/30	10:04:22	0.6250	120.027	113.360
2018/05/30	10:04:52	0.6333	120.016	113.342
2018/05/30	10:05:22	0.6417	120.020	113.342
2018/05/30	10:05:52	0.6500	119.971	113.342
2018/05/30	10:06:22	0.6583	119.974	113.342
2018/05/30	10:06:52	0.6667	119.990	113.342
2018/05/30	10:07:22	0.6750	119.969	113.360
2018/05/30	10:07:52	0.6833	119.961	113.360
2018/05/30	10:08:22	0.6917	119.971	113.342
2018/05/30	10:08:52	0.7000	119.943	113.360
2018/05/30	10:09:22	0.7083	119.958	113.360
2018/05/30	10:09:52	0.7167	119.971	113.360
2018/05/30	10:10:22	0.7250	120.026	113.360
2018/05/30	10:10:52	0.7333	119.984	113.360
2018/05/30	10:11:22	0.7417	119.938	113.378
2018/05/30	10:11:52	0.7500	119.933	113.360
2018/05/30	10:12:22	0.7583	119.980	113.360
2018/05/30	10:12:52	0.7667	119.964	113.360
2018/05/30	10:13:22	0.7750	119.936	113.360
2018/05/30	10:13:52	0.7833	119.930	113.360
2018/05/30	10:14:22	0.7917	119.949	113.360
2018/05/30	10:14:52	0.8000	119.940	113.360
2018/05/30	10:15:22	0.8083	119.913	113.360
2018/05/30	10:15:52	0.8167	119.894	113.360
2018/05/30	10:16:22	0.8250	119.964	113.360
2018/05/30	10:16:52	0.8333	119.938	113.378
2018/05/30	10:17:22	0.8417	119.965	113.378
2018/05/30	10:17:52	0.8500	119.956	113.378
2018/05/30	10:18:22	0.8583	119.993	113.396
2018/05/30	10:18:52	0.8667	120.000	113.396
2018/05/30	10:19:22	0.8750	120.054	113.378
2018/05/30	10:19:52	0.8833	120.078	113.396

Company Name Hilcorp
Well Name San Juan 31-6 Unit #225
Type of Test POOH Static Gradient
Date(s) of Test 5/30/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/30	10:20:22	0.8917	120.067	113.396
2018/05/30	10:20:52	0.9000	120.064	113.396
2018/05/30	10:21:22	0.9083	120.085	113.396
2018/05/30	10:21:52	0.9167	120.170	113.396
2018/05/30	10:22:22	0.9250	120.159	113.378
2018/05/30	10:22:52	0.9333	120.190	113.378
2018/05/30	10:23:22	0.9417	120.215	113.396
2018/05/30	10:23:52	0.9500	120.265	113.378
2018/05/30	10:24:22	0.9583	120.278	113.378
2018/05/30	10:24:52	0.9667	120.318	113.378
2018/05/30	10:25:22	0.9750	120.332	113.396
2018/05/30	10:25:52	0.9833	120.387	113.378
2018/05/30	10:26:22	0.9917	120.428	113.396
2018/05/30	10:26:52	1.0000	120.425	113.396
2018/05/30	10:27:22	1.0083	120.489	113.396
2018/05/30	10:27:52	1.0167	120.552	113.396
2018/05/30	10:28:22	1.0250	120.550	113.396
2018/05/30	10:28:52	1.0333	120.557	113.414
2018/05/30	10:29:22	1.0417	120.641	113.396
2018/05/30	10:29:52	1.0500	120.677	113.414
2018/05/30	10:30:22	1.0583	120.684	113.414
2018/05/30	10:30:52	1.0667	120.773	113.414
2018/05/30	10:31:22	1.0750	120.777	113.414
2018/05/30	10:31:52	1.0833	120.819	113.414
2018/05/30	10:32:22	1.0917	120.819	113.414
2018/05/30	10:32:52	1.1000	120.895	113.414
2018/05/30	10:33:22	1.1083	120.890	113.414
2018/05/30	10:33:52	1.1167	120.938	113.414
2018/05/30	10:34:22	1.1250	120.983	113.414
2018/05/30	10:34:52	1.1333	95.911	113.306
2018/05/30	10:35:22	1.1417	91.027	112.514
2018/05/30	10:35:52	1.1500	90.828	111.632
POOH Gradient: 2500.000 ft				
2018/05/30	10:36:22	1.1583	90.060	110.570
2018/05/30	10:36:52	1.1667	90.018	110.102
2018/05/30	10:37:22	1.1750	89.984	109.778
2018/05/30	10:37:52	1.1833	89.948	109.454
2018/05/30	10:38:22	1.1917	89.944	109.166
2018/05/30	10:38:52	1.2000	89.909	108.860
2018/05/30	10:39:22	1.2083	89.880	108.572
2018/05/30	10:39:52	1.2167	89.971	108.284
2018/05/30	10:40:22	1.2250	89.965	107.996
2018/05/30	10:40:52	1.2333	90.019	107.726
2018/05/30	10:41:22	1.2417	89.994	107.402
2018/05/30	10:41:52	1.2500	89.581	106.322
POOH Gradient: 2000.000 ft				
2018/05/30	10:42:22	1.2583	89.095	104.900
2018/05/30	10:42:52	1.2667	88.882	103.748
2018/05/30	10:43:22	1.2750	88.886	103.280
2018/05/30	10:43:52	1.2833	88.912	102.902
2018/05/30	10:44:22	1.2917	88.959	102.542
2018/05/30	10:44:52	1.3000	89.043	102.182
2018/05/30	10:45:22	1.3083	89.010	101.822
2018/05/30	10:45:52	1.3167	89.031	101.480

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/30	10:46:22	1.3250	89.029	101.120
2018/05/30	10:46:52	1.3333	89.034	100.796
2018/05/30	10:47:22	1.3417	89.088	100.454
2018/05/30	10:47:52	1.3500	88.834	99.806
2018/05/30	10:48:22	1.3583	88.316	98.312
POOH Gradient: 1500.000 ft				
2018/05/30	10:48:52	1.3667	87.886	96.620
2018/05/30	10:49:22	1.3750	87.871	95.846
2018/05/30	10:49:52	1.3833	87.889	95.432
2018/05/30	10:50:22	1.3917	87.875	95.036
2018/05/30	10:50:52	1.4000	87.952	94.658
2018/05/30	10:51:22	1.4083	87.939	94.262
2018/05/30	10:51:52	1.4167	88.010	93.902
2018/05/30	10:52:22	1.4250	87.986	93.542
2018/05/30	10:52:52	1.4333	87.978	93.164
2018/05/30	10:53:22	1.4417	88.055	92.822
2018/05/30	10:53:52	1.4500	88.006	92.462
2018/05/30	10:54:22	1.4583	87.533	91.184
2018/05/30	10:54:52	1.4667	87.001	89.402
POOH Gradient: 1000.000 ft				
2018/05/30	10:55:22	1.4750	86.799	87.980
2018/05/30	10:55:52	1.4833	86.809	87.440
2018/05/30	10:56:22	1.4917	86.857	87.008
2018/05/30	10:56:52	1.5000	86.921	86.594
2018/05/30	10:57:22	1.5083	86.886	86.180
2018/05/30	10:57:52	1.5167	86.917	85.784
2018/05/30	10:58:22	1.5250	86.956	85.370
2018/05/30	10:58:52	1.5333	86.986	84.992
2018/05/30	10:59:22	1.5417	86.985	84.614
2018/05/30	10:59:52	1.5500	86.998	84.236
2018/05/30	11:00:22	1.5583	86.667	83.444
2018/05/30	11:00:52	1.5667	86.141	81.716
POOH Gradient: 500.000 ft				
2018/05/30	11:01:22	1.5750	85.743	79.916
2018/05/30	11:01:52	1.5833	85.801	79.196
2018/05/30	11:02:22	1.5917	85.835	78.800
2018/05/30	11:02:52	1.6000	85.812	78.404
2018/05/30	11:03:22	1.6083	85.835	78.026
2018/05/30	11:03:52	1.6167	85.878	77.648
2018/05/30	11:04:22	1.6250	85.880	77.270
2018/05/30	11:04:52	1.6333	85.886	76.928
2018/05/30	11:05:22	1.6417	85.893	76.568
2018/05/30	11:05:52	1.6500	85.919	76.226
2018/05/30	11:06:22	1.6583	85.791	75.794
2018/05/30	11:06:52	1.6667	85.246	74.318
POOH Gradient: 0.000 ft				
2018/05/30	11:07:22	1.6750	84.706	72.518
2018/05/30	11:07:52	1.6833	84.719	71.816
2018/05/30	11:08:22	1.6917	84.709	71.708
2018/05/30	11:08:52	1.7000	84.753	71.690
2018/05/30	11:09:22	1.7083	84.777	71.690
2018/05/30	11:09:52	1.7167	84.801	71.690
2018/05/30	11:10:22	1.7250	84.796	71.672
2018/05/30	11:10:52	1.7333	84.859	71.672

Company Name Hilcorp
Well Name San Juan 31-6 Unit #225
Type of Test POOH Static Gradient
Date(s) of Test 5/30/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/30	11:11:22	1.7417	84.853	71.672
2018/05/30	11:11:52	1.7500	84.883	71.672
2018/05/30	11:12:22	1.7583	84.901	71.672
2018/05/30	11:12:52	1.7667	84.921	71.816
2018/05/30	11:13:22	1.7750	33.131	72.176
2018/05/30	11:13:52	1.7833	-1.545	72.176
2018/05/30	11:14:22	1.7917	-1.553	72.338
2018/05/30	11:14:52	1.8000	-1.516	72.536