

BP

Pressure Test Report

COMPANY INFORMATION

Company Name	HILCORP
Representative	PRISCILLA SHORTY
Phone	
Fax	
Address	

E-Mail Address	
Service Company	EXPERT DOWNHOLE SERVICES, INC.

WELL INFORMATION

Well Name	SAN JUAN 30-5 UNIT #216 POW
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	6/3/20
Dead-weight Gauge Tubing Pressure	45
Dead-weight Gauge Casing Pressure	100
Shut-in Date (Duration)	
Date / Time on Bottom	6/3/20 @1430
Date / Time off Bottom	6/3/20 @1530
Probe Serial Number	
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3005

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	42.5 psig
Maximum Recorded Probe Temperature	110.1 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 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



PROBE INFORMATION

Probe Serial Number

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
Well Name	SAN JUAN 30-5 UNIT #216 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/3/20



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK, TAGGED FILL @3008 WLM. RIH WITH BHP GAUGE TO 3005 WLM FOR 1 HOUR, THE POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



Pressure vs. Depth

Probe Serial Number

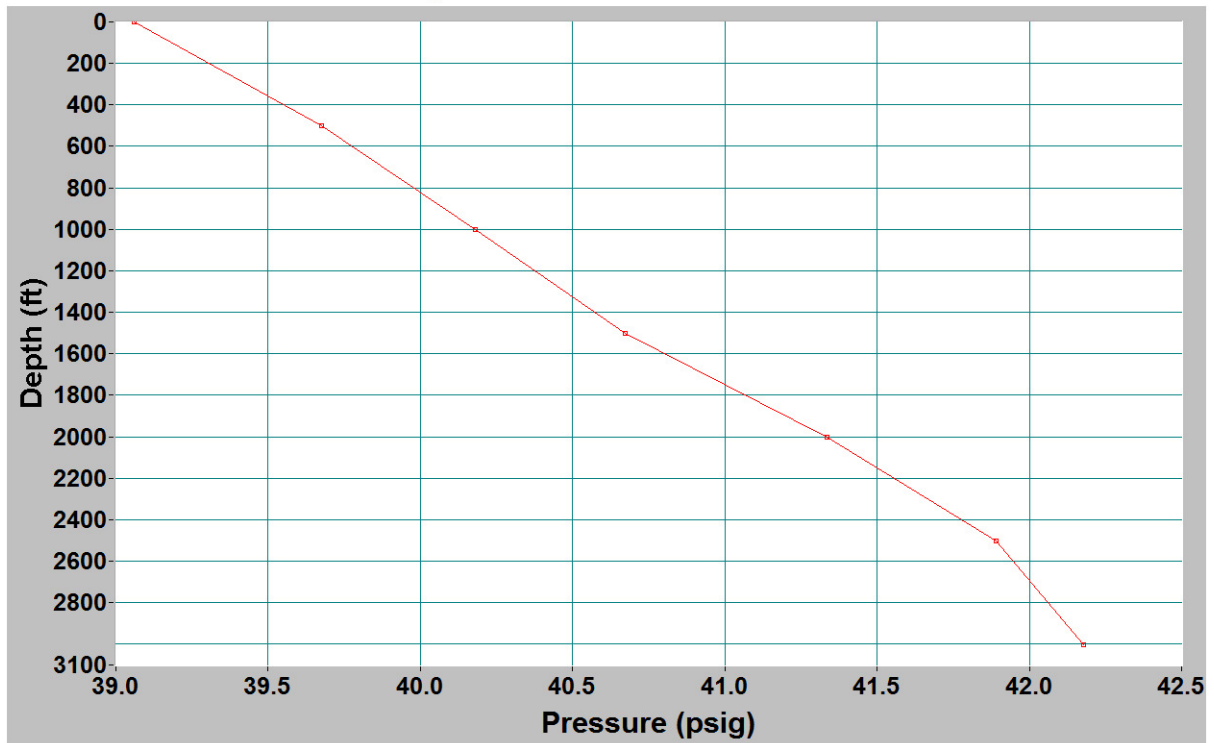
		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1430	1530	3005.000	42.180	-	90.626	-
1531	1536	2500.000	41.890	0.0006	108.914	-0.0362
1538	1543	2000.000	41.336	0.0011	104.531	0.0088
1544	1549	1500.000	40.673	0.0013	98.861	0.0113
1550	1555	1000.000	40.181	0.0010	92.412	0.0129
1557	1602	500.000	39.676	0.0010	85.577	0.0137
1603	1608	0.000	39.061	0.0012	78.516	0.0141

Extrapolated to MPP:

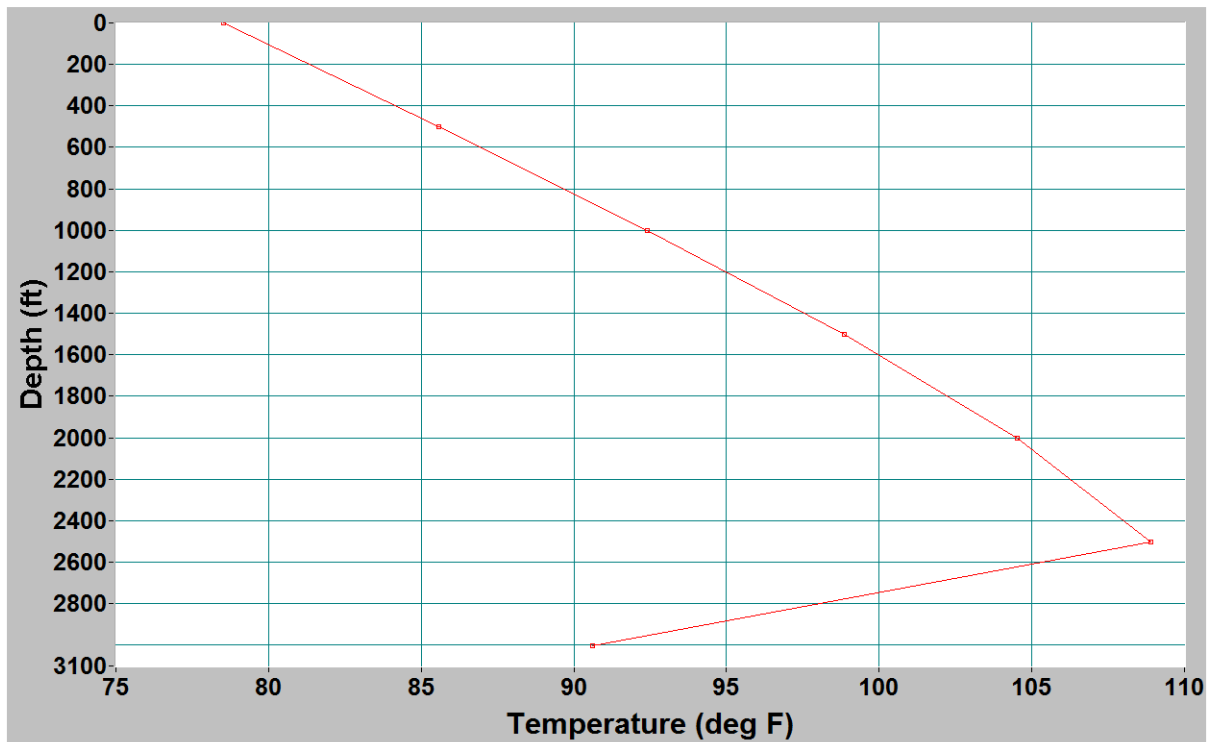
(ft)	(psig)	(deg F)
0.000		

Probe Serial Number

Depth vs. Pressure



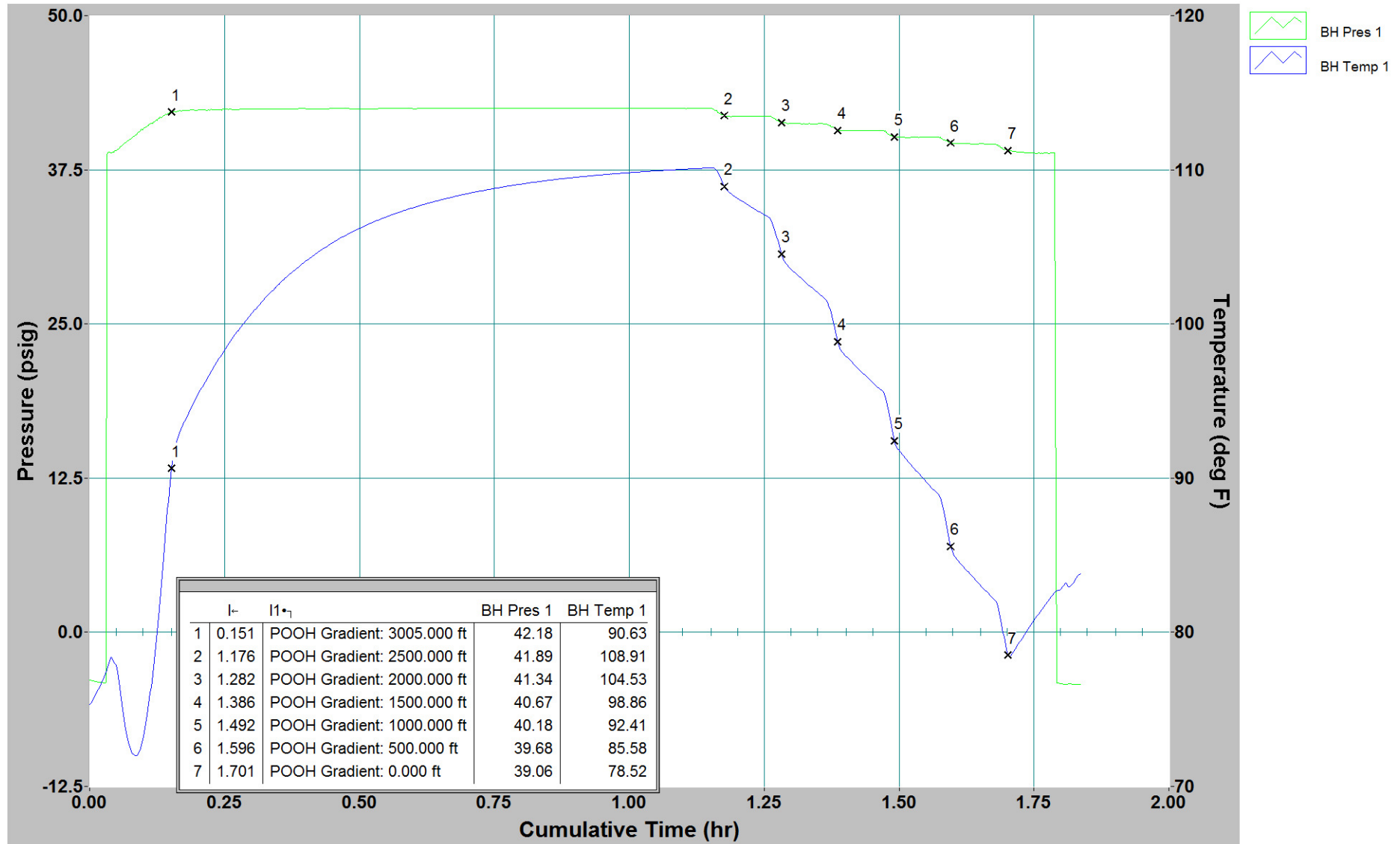
Depth vs. Temperature



Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



SAN JUAN 30-5 #216 POW 2020



Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/03	14:21:15	0.0000	-3.882	75.333
2020/06/03	14:21:45	0.0083	-3.962	75.731
2020/06/03	14:22:15	0.0167	-4.040	76.325
2020/06/03	14:22:45	0.0250	-4.085	76.962
2020/06/03	14:23:15	0.0333	38.871	77.715
2020/06/03	14:23:45	0.0417	38.900	78.364
2020/06/03	14:24:15	0.0500	39.108	77.657
2020/06/03	14:24:45	0.0583	39.419	75.699
2020/06/03	14:25:15	0.0667	39.697	73.747
2020/06/03	14:25:45	0.0750	39.991	72.554
2020/06/03	14:26:15	0.0833	40.269	72.012
2020/06/03	14:26:45	0.0917	40.567	72.223
2020/06/03	14:27:15	0.1000	40.850	73.252
2020/06/03	14:27:45	0.1083	41.081	75.002
2020/06/03	14:28:15	0.1167	41.243	77.272
2020/06/03	14:28:45	0.1250	41.514	80.028
2020/06/03	14:29:15	0.1333	41.738	83.129
2020/06/03	14:29:45	0.1417	42.003	86.713
2020/06/03	14:30:15	0.1500	42.180	90.171
POOH Gradient: 3005.000 ft				
2020/06/03	14:30:20	0.1514	42.180	90.626
2020/06/03	14:30:45	0.1583	42.213	92.030
2020/06/03	14:31:15	0.1667	42.295	92.905
2020/06/03	14:31:45	0.1750	42.292	93.578
2020/06/03	14:32:15	0.1833	42.329	94.208
2020/06/03	14:32:45	0.1917	42.351	94.791
2020/06/03	14:33:15	0.2000	42.322	95.347
2020/06/03	14:33:45	0.2083	42.343	95.873
2020/06/03	14:34:15	0.2167	42.334	96.386
2020/06/03	14:34:45	0.2250	42.404	96.877
2020/06/03	14:35:15	0.2333	42.365	97.367
2020/06/03	14:35:45	0.2417	42.347	97.842
2020/06/03	14:36:15	0.2500	42.411	98.294
2020/06/03	14:36:45	0.2583	42.420	98.730
2020/06/03	14:37:15	0.2667	42.391	99.151
2020/06/03	14:37:45	0.2750	42.390	99.556
2020/06/03	14:38:15	0.2833	42.416	99.943
2020/06/03	14:38:45	0.2917	42.416	100.296
2020/06/03	14:39:15	0.3000	42.417	100.652
2020/06/03	14:39:45	0.3083	42.425	100.994
2020/06/03	14:40:15	0.3167	42.437	101.329
2020/06/03	14:40:45	0.3250	42.413	101.664
2020/06/03	14:41:15	0.3333	42.415	101.971
2020/06/03	14:41:45	0.3417	42.444	102.268
2020/06/03	14:42:15	0.3500	42.445	102.556
2020/06/03	14:42:45	0.3583	42.434	102.830
2020/06/03	14:43:15	0.3667	42.436	103.098
2020/06/03	14:43:45	0.3750	42.424	103.359
2020/06/03	14:44:15	0.3833	42.430	103.590
2020/06/03	14:44:45	0.3917	42.468	103.833
2020/06/03	14:45:15	0.4000	42.458	104.059
2020/06/03	14:45:45	0.4083	42.446	104.279
2020/06/03	14:46:15	0.4167	42.438	104.495
2020/06/03	14:46:45	0.4250	42.434	104.700

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/03	14:47:15	0.4333	42.432	104.889
2020/06/03	14:47:45	0.4417	42.439	105.076
2020/06/03	14:48:15	0.4500	42.488	105.267
2020/06/03	14:48:45	0.4583	42.475	105.436
2020/06/03	14:49:15	0.4667	42.462	105.604
2020/06/03	14:49:45	0.4750	42.460	105.760
2020/06/03	14:50:15	0.4833	42.454	105.915
2020/06/03	14:50:45	0.4917	42.449	106.063
2020/06/03	14:51:15	0.5000	42.445	106.209
2020/06/03	14:51:45	0.5083	42.448	106.335
2020/06/03	14:52:15	0.5167	42.448	106.471
2020/06/03	14:52:45	0.5250	42.449	106.594
2020/06/03	14:53:15	0.5333	42.453	106.716
2020/06/03	14:53:45	0.5417	42.467	106.839
2020/06/03	14:54:15	0.5500	42.467	106.941
2020/06/03	14:54:45	0.5583	42.468	107.062
2020/06/03	14:55:15	0.5667	42.467	107.168
2020/06/03	14:55:45	0.5750	42.465	107.265
2020/06/03	14:56:15	0.5833	42.465	107.361
2020/06/03	14:56:45	0.5917	42.462	107.456
2020/06/03	14:57:15	0.6000	42.456	107.553
2020/06/03	14:57:45	0.6083	42.470	107.643
2020/06/03	14:58:15	0.6167	42.468	107.730
2020/06/03	14:58:45	0.6250	42.473	107.807
2020/06/03	14:59:15	0.6333	42.485	107.890
2020/06/03	14:59:45	0.6417	42.477	107.971
2020/06/03	15:00:15	0.6500	42.477	108.039
2020/06/03	15:00:45	0.6583	42.475	108.117
2020/06/03	15:01:15	0.6667	42.482	108.181
2020/06/03	15:01:45	0.6750	42.488	108.259
2020/06/03	15:02:15	0.6833	42.475	108.322
2020/06/03	15:02:45	0.6917	42.465	108.394
2020/06/03	15:03:15	0.7000	42.466	108.451
2020/06/03	15:03:45	0.7083	42.459	108.514
2020/06/03	15:04:15	0.7167	42.493	108.570
2020/06/03	15:04:45	0.7250	42.481	108.628
2020/06/03	15:05:15	0.7333	42.466	108.678
2020/06/03	15:05:45	0.7417	42.470	108.738
2020/06/03	15:06:15	0.7500	42.472	108.786
2020/06/03	15:06:45	0.7583	42.470	108.838
2020/06/03	15:07:15	0.7667	42.478	108.892
2020/06/03	15:07:45	0.7750	42.483	108.937
2020/06/03	15:08:15	0.7833	42.492	108.982
2020/06/03	15:08:45	0.7917	42.488	109.027
2020/06/03	15:09:15	0.8000	42.486	109.072
2020/06/03	15:09:45	0.8083	42.492	109.114
2020/06/03	15:10:15	0.8167	42.491	109.157
2020/06/03	15:10:45	0.8250	42.490	109.200
2020/06/03	15:11:15	0.8333	42.486	109.242
2020/06/03	15:11:45	0.8417	42.502	109.278
2020/06/03	15:12:15	0.8500	42.482	109.314
2020/06/03	15:12:45	0.8583	42.492	109.351
2020/06/03	15:13:15	0.8667	42.488	109.386
2020/06/03	15:13:45	0.8750	42.482	109.416

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/03	15:14:15	0.8833	42.483	109.445
2020/06/03	15:14:45	0.8917	42.476	109.481
2020/06/03	15:15:15	0.9000	42.483	109.512
2020/06/03	15:15:45	0.9083	42.473	109.546
2020/06/03	15:16:15	0.9167	42.480	109.569
2020/06/03	15:16:45	0.9250	42.481	109.593
2020/06/03	15:17:15	0.9333	42.481	109.625
2020/06/03	15:17:45	0.9417	42.485	109.648
2020/06/03	15:18:15	0.9500	42.496	109.675
2020/06/03	15:18:45	0.9583	42.494	109.699
2020/06/03	15:19:15	0.9667	42.498	109.722
2020/06/03	15:19:45	0.9750	42.493	109.742
2020/06/03	15:20:15	0.9833	42.480	109.771
2020/06/03	15:20:45	0.9917	42.475	109.787
2020/06/03	15:21:15	1.0000	42.476	109.812
2020/06/03	15:21:45	1.0083	42.474	109.834
2020/06/03	15:22:15	1.0167	42.472	109.850
2020/06/03	15:22:45	1.0250	42.483	109.875
2020/06/03	15:23:15	1.0333	42.484	109.895
2020/06/03	15:23:45	1.0417	42.489	109.917
2020/06/03	15:24:15	1.0500	42.493	109.936
2020/06/03	15:24:45	1.0583	42.492	109.947
2020/06/03	15:25:15	1.0667	42.500	109.965
2020/06/03	15:25:45	1.0750	42.492	109.981
2020/06/03	15:26:15	1.0833	42.484	110.001
2020/06/03	15:26:45	1.0917	42.476	110.016
2020/06/03	15:27:15	1.1000	42.471	110.030
2020/06/03	15:27:45	1.1083	42.460	110.050
2020/06/03	15:28:15	1.1167	42.461	110.064
2020/06/03	15:28:45	1.1250	42.460	110.080
2020/06/03	15:29:15	1.1333	42.468	110.093
2020/06/03	15:29:45	1.1417	42.460	110.109
2020/06/03	15:30:15	1.1500	42.475	110.124
2020/06/03	15:30:45	1.1583	42.340	110.075
2020/06/03	15:31:15	1.1667	42.062	109.711
2020/06/03	15:31:45	1.1750	41.960	109.029
POOH Gradient: 2500.000 ft				
2020/06/03	15:31:50	1.1764	41.890	108.914
2020/06/03	15:32:15	1.1833	41.866	108.588
2020/06/03	15:32:45	1.1917	41.820	108.365
2020/06/03	15:33:15	1.2000	41.827	108.160
2020/06/03	15:33:45	1.2083	41.836	107.969
2020/06/03	15:34:15	1.2167	41.837	107.789
2020/06/03	15:34:45	1.2250	41.846	107.609
2020/06/03	15:35:15	1.2333	41.847	107.427
2020/06/03	15:35:45	1.2417	41.850	107.265
2020/06/03	15:36:15	1.2500	41.851	107.091
2020/06/03	15:36:45	1.2583	41.851	106.923
2020/06/03	15:37:15	1.2667	41.742	106.416
2020/06/03	15:37:45	1.2750	41.479	105.469
POOH Gradient: 2000.000 ft				
2020/06/03	15:38:10	1.2819	41.336	104.531
2020/06/03	15:38:15	1.2833	41.336	104.373
2020/06/03	15:38:45	1.2917	41.279	103.876

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/03	15:39:15	1.3000	41.242	103.559
2020/06/03	15:39:45	1.3083	41.254	103.285
2020/06/03	15:40:15	1.3167	41.245	103.015
2020/06/03	15:40:45	1.3250	41.210	102.758
2020/06/03	15:41:15	1.3333	41.235	102.501
2020/06/03	15:41:45	1.3417	41.225	102.252
2020/06/03	15:42:15	1.3500	41.236	102.009
2020/06/03	15:42:45	1.3583	41.244	101.772
2020/06/03	15:43:15	1.3667	41.184	101.498
2020/06/03	15:43:45	1.3750	40.996	100.544
2020/06/03	15:44:15	1.3833	40.732	99.295
POOH Gradient: 1500.000 ft				
2020/06/03	15:44:25	1.3861	40.673	98.861
2020/06/03	15:44:45	1.3917	40.680	98.346
2020/06/03	15:45:15	1.4000	40.698	97.977
2020/06/03	15:45:45	1.4083	40.662	97.671
2020/06/03	15:46:15	1.4167	40.679	97.371
2020/06/03	15:46:45	1.4250	40.667	97.083
2020/06/03	15:47:15	1.4333	40.673	96.796
2020/06/03	15:47:45	1.4417	40.683	96.514
2020/06/03	15:48:15	1.4500	40.665	96.242
2020/06/03	15:48:45	1.4583	40.674	95.970
2020/06/03	15:49:15	1.4667	40.684	95.709
2020/06/03	15:49:45	1.4750	40.552	95.149
2020/06/03	15:50:15	1.4833	40.280	93.852
POOH Gradient: 1000.000 ft				
2020/06/03	15:50:45	1.4917	40.181	92.412
2020/06/03	15:51:15	1.5000	40.148	91.787
2020/06/03	15:51:45	1.5083	40.163	91.429
2020/06/03	15:52:15	1.5167	40.121	91.085
2020/06/03	15:52:45	1.5250	40.133	90.752
2020/06/03	15:53:15	1.5333	40.154	90.417
2020/06/03	15:53:45	1.5417	40.139	90.093
2020/06/03	15:54:15	1.5500	40.152	89.778
2020/06/03	15:54:45	1.5583	40.165	89.460
2020/06/03	15:55:15	1.5667	40.158	89.150
2020/06/03	15:55:45	1.5750	40.126	88.837
2020/06/03	15:56:15	1.5833	39.930	87.795
2020/06/03	15:56:45	1.5917	39.777	86.329
POOH Gradient: 500.000 ft				
2020/06/03	15:57:00	1.5958	39.676	85.577
2020/06/03	15:57:15	1.6000	39.623	85.104
2020/06/03	15:57:45	1.6083	39.650	84.679
2020/06/03	15:58:15	1.6167	39.630	84.342
2020/06/03	15:58:45	1.6250	39.643	84.022
2020/06/03	15:59:15	1.6333	39.568	83.705
2020/06/03	15:59:45	1.6417	39.594	83.385
2020/06/03	16:00:15	1.6500	39.606	83.077
2020/06/03	16:00:45	1.6583	39.573	82.769
2020/06/03	16:01:15	1.6667	39.593	82.474
2020/06/03	16:01:45	1.6750	39.592	82.171
2020/06/03	16:02:15	1.6833	39.503	81.676
2020/06/03	16:02:45	1.6917	39.281	80.251
2020/06/03	16:03:15	1.7000	39.126	78.676

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
POOH Gradient: 0.000 ft				
2020/06/03	16:03:20	1.7014	39.061	78.516
2020/06/03	16:03:45	1.7083	39.022	78.530
2020/06/03	16:04:15	1.7167	38.963	78.966
2020/06/03	16:04:45	1.7250	38.923	79.428
2020/06/03	16:05:15	1.7333	38.890	79.887
2020/06/03	16:05:45	1.7417	38.861	80.328
2020/06/03	16:06:15	1.7500	38.853	80.758
2020/06/03	16:06:45	1.7583	38.855	81.176
2020/06/03	16:07:15	1.7667	38.840	81.577
2020/06/03	16:07:45	1.7750	38.851	81.961
2020/06/03	16:08:15	1.7833	38.895	82.342
2020/06/03	16:08:45	1.7917	-4.124	82.695
2020/06/03	16:09:15	1.8000	-4.166	82.821
2020/06/03	16:09:45	1.8083	-4.230	83.172
2020/06/03	16:10:15	1.8167	-4.189	82.954
2020/06/03	16:10:45	1.8250	-4.240	83.316
2020/06/03	16:11:15	1.8333	-4.226	83.732