

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 31-6 #205 POW
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	6/4/20
Dead-weight Gauge Tubing Pressure	84
Dead-weight Gauge Casing Pressure	20
Shut-in Date (Duration)	
Date / Time on Bottom	06/04/20 @1137
Date / Time off Bottom	06/04/20 @1237

Probe Serial Number	
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3260

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	95.6 psig
Maximum Recorded Probe Temperature	114.8 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 #205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



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 31-6 #205 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/4/20



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK, TAGGED FILL @3264 WLM. RIH WITH BHP GAUGE TO 3260 WLM FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
Well Name SAN JUAN 31-6 #205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Pressure vs. Depth

Probe Serial Number

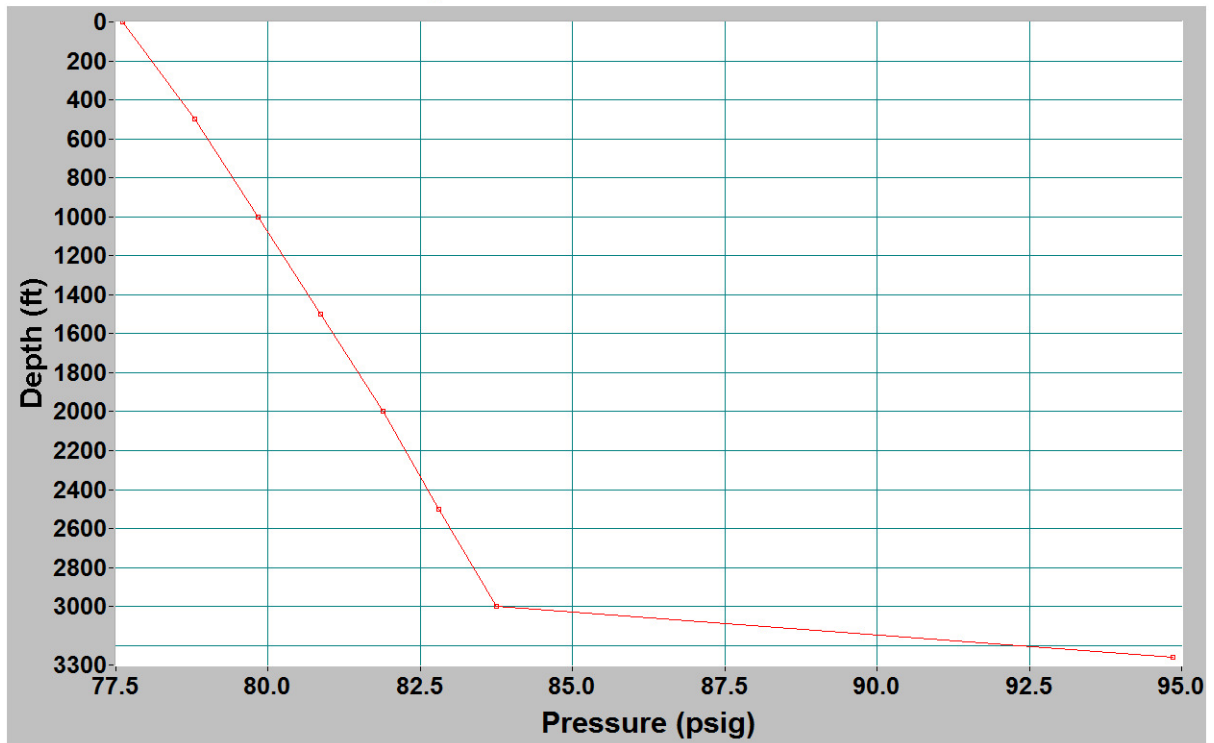
		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1137	1237	3260.000	94.866	-	99.275	-
1238	1243	3000.000	83.751	0.0427	114.089	-0.0570
1244	1249	2500.000	82.800	0.0019	109.549	0.0091
1251	1256	2000.000	81.885	0.0018	103.062	0.0130
1257	1302	1500.000	80.863	0.0020	95.855	0.0144
1304	1309	1000.000	79.839	0.0020	88.338	0.0150
1310	1315	500.000	78.795	0.0021	80.766	0.0151
1316	1321	0.000	77.617	0.0024	72.968	0.0156

Extrapolated to MPP:

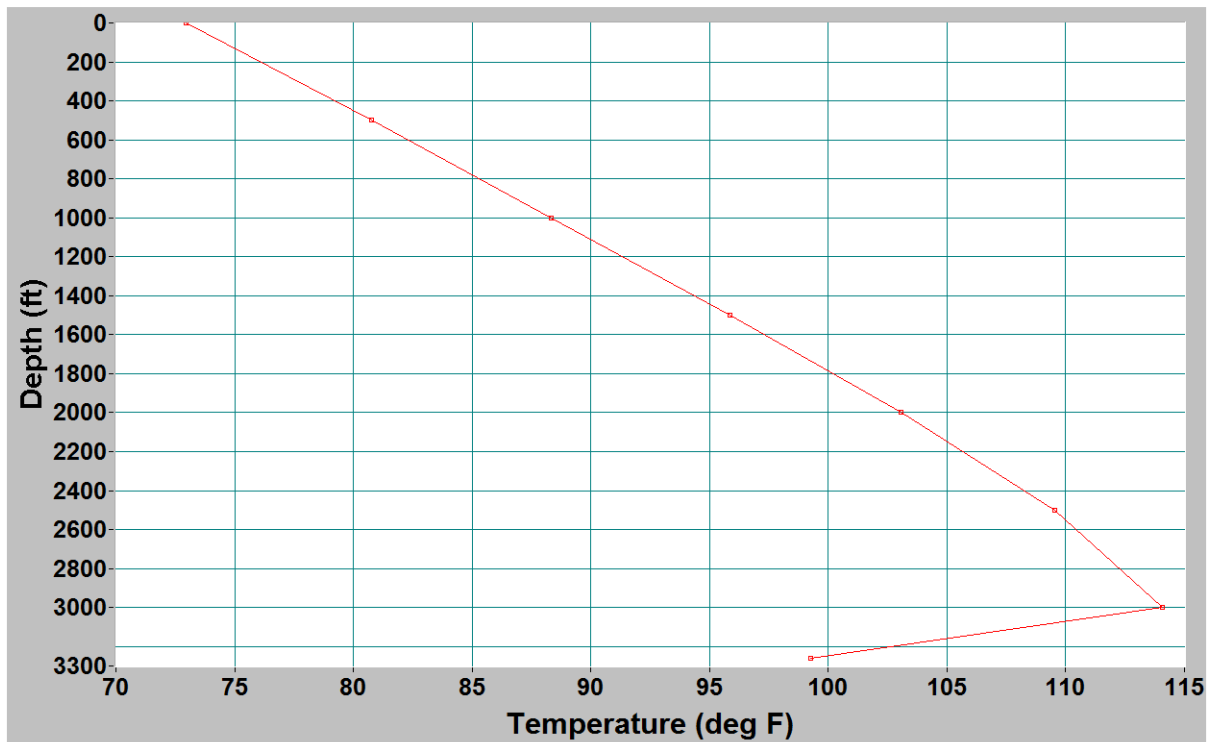
(ft)	(psig)	(deg F)
0.000		

Probe Serial Number

Depth vs. Pressure



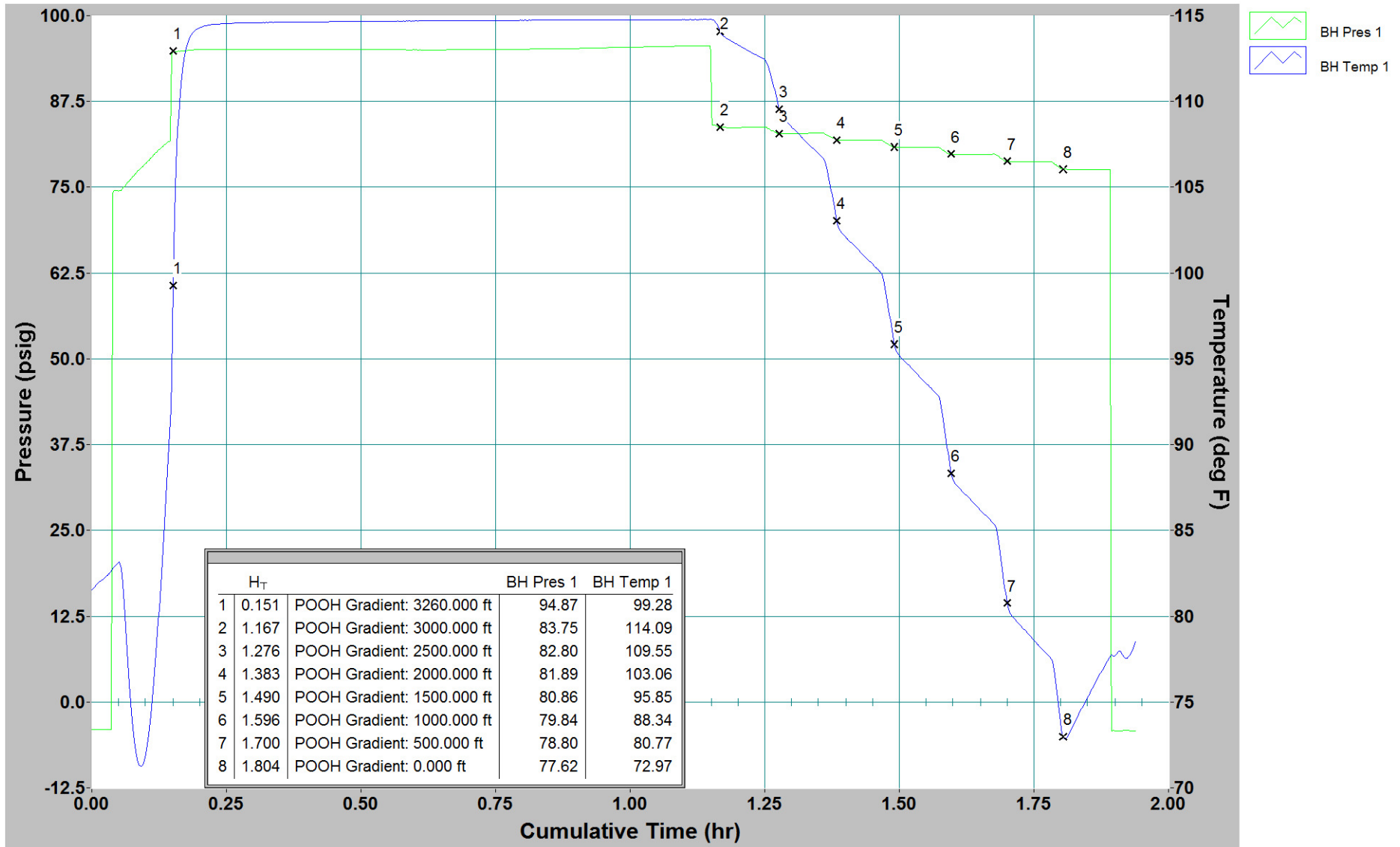
Depth vs. Temperature



Company Name HILCORP
 Well Name SAN JUAN 31-6 #205 POW
 Type of Test POOH STATIC GRADIENT
 Date(s) of Test 6/4/20



SAN JUAN 31-6 #205 POW 2020



Company Name HILCORP
Well Name SAN JUAN 31-6 #205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	11:28:20	0.0000	-3.956	81.516
2020/06/04	11:28:50	0.0083	-3.985	81.806
2020/06/04	11:29:20	0.0167	-3.996	82.056
2020/06/04	11:29:50	0.0250	-4.015	82.279
2020/06/04	11:30:20	0.0333	-4.040	82.521
2020/06/04	11:30:50	0.0417	74.497	82.875
2020/06/04	11:31:20	0.0500	74.469	83.147
2020/06/04	11:31:50	0.0583	74.995	81.329
2020/06/04	11:32:20	0.0667	75.748	77.328
2020/06/04	11:32:50	0.0750	76.455	73.951
2020/06/04	11:33:20	0.0833	77.191	71.893
2020/06/04	11:33:50	0.0917	77.835	71.262
2020/06/04	11:34:20	0.1000	78.542	71.971
2020/06/04	11:34:50	0.1083	79.190	73.839
2020/06/04	11:35:20	0.1167	79.791	76.737
2020/06/04	11:35:50	0.1250	80.516	80.413
2020/06/04	11:36:20	0.1333	81.127	84.661
2020/06/04	11:36:50	0.1417	81.604	89.197
2020/06/04	11:37:20	0.1500	94.950	96.667
POOH Gradient: 3260.000 ft				
2020/06/04	11:37:25	0.1514	94.866	99.275
2020/06/04	11:37:50	0.1583	94.751	107.355
2020/06/04	11:38:20	0.1667	94.837	111.447
2020/06/04	11:38:50	0.1750	94.879	113.077
2020/06/04	11:39:20	0.1833	94.952	113.785
2020/06/04	11:39:50	0.1917	95.039	114.114
2020/06/04	11:40:20	0.2000	95.060	114.294
2020/06/04	11:40:50	0.2083	95.099	114.397
2020/06/04	11:41:20	0.2167	95.101	114.456
2020/06/04	11:41:50	0.2250	95.116	114.481
2020/06/04	11:42:20	0.2333	95.118	114.512
2020/06/04	11:42:50	0.2417	95.111	114.530
2020/06/04	11:43:20	0.2500	95.101	114.543
2020/06/04	11:43:50	0.2583	95.108	114.548
2020/06/04	11:44:20	0.2667	95.097	114.564
2020/06/04	11:44:50	0.2750	95.091	114.570
2020/06/04	11:45:20	0.2833	95.090	114.577
2020/06/04	11:45:50	0.2917	95.077	114.580
2020/06/04	11:46:20	0.3000	95.074	114.584
2020/06/04	11:46:50	0.3083	95.077	114.584
2020/06/04	11:47:20	0.3167	95.080	114.593
2020/06/04	11:47:50	0.3250	95.063	114.604
2020/06/04	11:48:20	0.3333	95.063	114.604
2020/06/04	11:48:50	0.3417	95.066	114.606
2020/06/04	11:49:20	0.3500	95.063	114.611
2020/06/04	11:49:50	0.3583	95.056	114.615
2020/06/04	11:50:20	0.3667	95.046	114.616
2020/06/04	11:50:50	0.3750	95.050	114.620
2020/06/04	11:51:20	0.3833	95.049	114.625
2020/06/04	11:51:50	0.3917	95.043	114.627
2020/06/04	11:52:20	0.4000	95.043	114.634
2020/06/04	11:52:50	0.4083	95.039	114.633
2020/06/04	11:53:20	0.4167	95.049	114.636
2020/06/04	11:53:50	0.4250	95.046	114.642

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	11:54:20	0.4333	95.039	114.640
2020/06/04	11:54:50	0.4417	95.029	114.645
2020/06/04	11:55:20	0.4500	95.032	114.645
2020/06/04	11:55:50	0.4583	95.029	114.651
2020/06/04	11:56:20	0.4667	95.039	114.652
2020/06/04	11:56:50	0.4750	95.035	114.660
2020/06/04	11:57:20	0.4833	95.032	114.658
2020/06/04	11:57:50	0.4917	95.032	114.660
2020/06/04	11:58:20	0.5000	95.032	114.661
2020/06/04	11:58:50	0.5083	95.035	114.665
2020/06/04	11:59:20	0.5167	95.025	114.665
2020/06/04	11:59:50	0.5250	95.031	114.672
2020/06/04	12:00:20	0.5333	95.038	114.672
2020/06/04	12:00:50	0.5417	95.028	114.669
2020/06/04	12:01:20	0.5500	95.035	114.670
2020/06/04	12:01:50	0.5583	95.031	114.678
2020/06/04	12:02:20	0.5667	95.028	114.679
2020/06/04	12:02:50	0.5750	95.025	114.685
2020/06/04	12:03:20	0.5833	95.021	114.681
2020/06/04	12:03:50	0.5917	95.018	114.685
2020/06/04	12:04:20	0.6000	95.018	114.690
2020/06/04	12:04:50	0.6083	95.018	114.690
2020/06/04	12:05:20	0.6167	95.008	114.690
2020/06/04	12:05:50	0.6250	95.011	114.696
2020/06/04	12:06:20	0.6333	95.005	114.697
2020/06/04	12:06:50	0.6417	95.011	114.701
2020/06/04	12:07:20	0.6500	95.014	114.697
2020/06/04	12:07:50	0.6583	95.017	114.706
2020/06/04	12:08:20	0.6667	95.021	114.703
2020/06/04	12:08:50	0.6750	95.030	114.703
2020/06/04	12:09:20	0.6833	95.044	114.708
2020/06/04	12:09:50	0.6917	95.050	114.706
2020/06/04	12:10:20	0.7000	95.057	114.706
2020/06/04	12:10:50	0.7083	95.053	114.712
2020/06/04	12:11:20	0.7167	95.053	114.706
2020/06/04	12:11:50	0.7250	95.066	114.714
2020/06/04	12:12:20	0.7333	95.076	114.715
2020/06/04	12:12:50	0.7417	95.073	114.715
2020/06/04	12:13:20	0.7500	95.089	114.723
2020/06/04	12:13:50	0.7583	95.099	114.723
2020/06/04	12:14:20	0.7667	95.105	114.719
2020/06/04	12:14:50	0.7750	95.109	114.723
2020/06/04	12:15:20	0.7833	95.102	114.724
2020/06/04	12:15:50	0.7917	95.105	114.721
2020/06/04	12:16:20	0.8000	95.108	114.728
2020/06/04	12:16:50	0.8083	95.108	114.726
2020/06/04	12:17:20	0.8167	95.135	114.732
2020/06/04	12:17:50	0.8250	95.144	114.730
2020/06/04	12:18:20	0.8333	95.151	114.732
2020/06/04	12:18:50	0.8417	95.144	114.732
2020/06/04	12:19:20	0.8500	95.151	114.737
2020/06/04	12:19:50	0.8583	95.157	114.737
2020/06/04	12:20:20	0.8667	95.167	114.739
2020/06/04	12:20:50	0.8750	95.183	114.742

Company Name HILCORP
Well Name SAN JUAN 31-6 #205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	12:21:20	0.8833	95.187	114.737
2020/06/04	12:21:50	0.8917	95.197	114.741
2020/06/04	12:22:20	0.9000	95.210	114.739
2020/06/04	12:22:50	0.9083	95.246	114.741
2020/06/04	12:23:20	0.9167	95.259	114.742
2020/06/04	12:23:50	0.9250	95.279	114.737
2020/06/04	12:24:20	0.9333	95.292	114.750
2020/06/04	12:24:50	0.9417	95.304	114.753
2020/06/04	12:25:20	0.9500	95.321	114.748
2020/06/04	12:25:50	0.9583	95.334	114.750
2020/06/04	12:26:20	0.9667	95.347	114.750
2020/06/04	12:26:50	0.9750	95.357	114.748
2020/06/04	12:27:20	0.9833	95.370	114.755
2020/06/04	12:27:50	0.9917	95.383	114.753
2020/06/04	12:28:20	1.0000	95.400	114.757
2020/06/04	12:28:50	1.0083	95.413	114.751
2020/06/04	12:29:20	1.0167	95.426	114.755
2020/06/04	12:29:50	1.0250	95.442	114.757
2020/06/04	12:30:20	1.0333	95.462	114.759
2020/06/04	12:30:50	1.0417	95.475	114.764
2020/06/04	12:31:20	1.0500	95.504	114.768
2020/06/04	12:31:50	1.0583	95.514	114.760
2020/06/04	12:32:20	1.0667	95.531	114.762
2020/06/04	12:32:50	1.0750	95.537	114.764
2020/06/04	12:33:20	1.0833	95.547	114.766
2020/06/04	12:33:50	1.0917	95.557	114.768
2020/06/04	12:34:20	1.1000	95.567	114.769
2020/06/04	12:34:50	1.1083	95.580	114.768
2020/06/04	12:35:20	1.1167	95.590	114.759
2020/06/04	12:35:50	1.1250	95.609	114.766
2020/06/04	12:36:20	1.1333	95.626	114.766
2020/06/04	12:36:50	1.1417	95.642	114.769
2020/06/04	12:37:20	1.1500	94.628	114.771
2020/06/04	12:37:50	1.1583	84.034	114.654
POOH Gradient: 3000.000 ft				
2020/06/04	12:38:20	1.1667	83.751	114.089
2020/06/04	12:38:50	1.1750	83.700	113.769
2020/06/04	12:39:20	1.1833	83.691	113.605
2020/06/04	12:39:50	1.1917	83.685	113.452
2020/06/04	12:40:20	1.2000	83.689	113.301
2020/06/04	12:40:50	1.2083	83.702	113.149
2020/06/04	12:41:20	1.2167	83.709	113.005
2020/06/04	12:41:50	1.2250	83.725	112.869
2020/06/04	12:42:20	1.2333	83.745	112.717
2020/06/04	12:42:50	1.2417	83.758	112.577
2020/06/04	12:43:20	1.2500	83.771	112.444
2020/06/04	12:43:50	1.2583	83.499	111.893
2020/06/04	12:44:20	1.2667	83.186	110.907
2020/06/04	12:44:50	1.2750	82.834	109.724
POOH Gradient: 2500.000 ft				
2020/06/04	12:44:55	1.2764	82.800	109.549
2020/06/04	12:45:20	1.2833	82.815	109.092
2020/06/04	12:45:50	1.2917	82.826	108.802
2020/06/04	12:46:20	1.3000	82.826	108.522

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	12:46:50	1.3083	82.829	108.246
2020/06/04	12:47:20	1.3167	82.836	107.980
2020/06/04	12:47:50	1.3250	82.851	107.719
2020/06/04	12:48:20	1.3333	82.861	107.454
2020/06/04	12:48:50	1.3417	82.867	107.195
2020/06/04	12:49:20	1.3500	82.879	106.948
2020/06/04	12:49:50	1.3583	82.894	106.705
2020/06/04	12:50:20	1.3667	82.567	105.928
2020/06/04	12:50:50	1.3750	82.216	104.569
POOH Gradient: 2000.000 ft				
2020/06/04	12:51:20	1.3833	81.885	103.062
2020/06/04	12:51:50	1.3917	81.883	102.398
2020/06/04	12:52:20	1.4000	81.878	102.110
2020/06/04	12:52:50	1.4083	81.875	101.844
2020/06/04	12:53:20	1.4167	81.872	101.575
2020/06/04	12:53:50	1.4250	81.869	101.309
2020/06/04	12:54:20	1.4333	81.866	101.039
2020/06/04	12:54:50	1.4417	81.879	100.774
2020/06/04	12:55:20	1.4500	81.886	100.521
2020/06/04	12:55:50	1.4583	81.895	100.258
2020/06/04	12:56:20	1.4667	81.866	100.002
2020/06/04	12:56:50	1.4750	81.490	98.897
2020/06/04	12:57:20	1.4833	81.067	97.270
POOH Gradient: 1500.000 ft				
2020/06/04	12:57:45	1.4903	80.863	95.855
2020/06/04	12:57:50	1.4917	80.869	95.679
2020/06/04	12:58:20	1.5000	80.839	95.200
2020/06/04	12:58:50	1.5083	80.837	94.912
2020/06/04	12:59:20	1.5167	80.838	94.645
2020/06/04	12:59:50	1.5250	80.829	94.377
2020/06/04	13:00:20	1.5333	80.831	94.098
2020/06/04	13:00:50	1.5417	80.832	93.828
2020/06/04	13:01:20	1.5500	80.842	93.560
2020/06/04	13:01:50	1.5583	80.849	93.297
2020/06/04	13:02:20	1.5667	80.853	93.033
2020/06/04	13:02:50	1.5750	80.676	92.671
2020/06/04	13:03:20	1.5833	80.420	91.123
2020/06/04	13:03:50	1.5917	79.819	89.236
POOH Gradient: 1000.000 ft				
2020/06/04	13:04:05	1.5958	79.839	88.338
2020/06/04	13:04:20	1.6000	79.781	87.922
2020/06/04	13:04:50	1.6083	79.783	87.571
2020/06/04	13:05:20	1.6167	79.765	87.296
2020/06/04	13:05:50	1.6250	79.776	87.026
2020/06/04	13:06:20	1.6333	79.780	86.754
2020/06/04	13:06:50	1.6417	79.787	86.484
2020/06/04	13:07:20	1.6500	79.786	86.207
2020/06/04	13:07:50	1.6583	79.796	85.939
2020/06/04	13:08:20	1.6667	79.799	85.680
2020/06/04	13:08:50	1.6750	79.819	85.408
2020/06/04	13:09:20	1.6833	79.559	84.605
2020/06/04	13:09:50	1.6917	79.120	82.729
POOH Gradient: 500.000 ft				
2020/06/04	13:10:20	1.7000	78.795	80.766

Company Name HILCORP
Well Name SAN JUAN 31-6 #205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	13:10:50	1.7083	78.758	80.060
2020/06/04	13:11:20	1.7167	78.739	79.754
2020/06/04	13:11:50	1.7250	78.737	79.464
2020/06/04	13:12:20	1.7333	78.732	79.183
2020/06/04	13:12:50	1.7417	78.721	78.895
2020/06/04	13:13:20	1.7500	78.725	78.611
2020/06/04	13:13:50	1.7583	78.726	78.327
2020/06/04	13:14:20	1.7667	78.719	78.033
2020/06/04	13:14:50	1.7750	78.726	77.756
2020/06/04	13:15:20	1.7833	78.674	77.464
2020/06/04	13:15:50	1.7917	78.263	75.922
2020/06/04	13:16:20	1.8000	77.742	73.825
POOH Gradient: 0.000 ft				
2020/06/04	13:16:35	1.8042	77.617	72.968
2020/06/04	13:16:50	1.8083	77.623	72.838
2020/06/04	13:17:20	1.8167	77.592	73.216
2020/06/04	13:17:50	1.8250	77.568	73.731
2020/06/04	13:18:20	1.8333	77.549	74.262
2020/06/04	13:18:50	1.8417	77.543	74.777
2020/06/04	13:19:20	1.8500	77.526	75.267
2020/06/04	13:19:50	1.8583	77.555	75.769
2020/06/04	13:20:20	1.8667	77.541	76.255
2020/06/04	13:20:50	1.8750	77.533	76.737
2020/06/04	13:21:20	1.8833	77.575	77.207
2020/06/04	13:21:50	1.8917	77.579	77.648
2020/06/04	13:22:20	1.9000	-4.166	77.675
2020/06/04	13:22:50	1.9083	-4.216	77.977
2020/06/04	13:23:20	1.9167	-4.156	77.648
2020/06/04	13:23:50	1.9250	-4.156	77.612
2020/06/04	13:24:20	1.9333	-4.204	78.003