

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 #213 POW
Well Location	T30N, R5W, SEC 5
Field and Pool	BASIN FRUITLAND COAL
Status (Oil, Gas, Water, Injection)	OBSERVATION
Perforated Intervals	3172-3292
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	
Casing Flange (CF)	
KB-CF	
Ground Level	6492
Plug Back Total Depth	
Total Depth	3295
Production Casing	
Production Tubing	2 3/8" TO 3022

TEST INFORMATION

Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/3/20
Dead-weight Gauge Tubing Pressure	190
Dead-weight Gauge Casing Pressure	13
Shut-in Date (Duration)	
Date / Time on Bottom	6/3/20 @1142
Date / Time off Bottom	6/3/20 @1242

Probe Serial Number	
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3000

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	195.2 psig
Maximum Recorded Probe Temperature	108.9 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 30-5 UNIT #213 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 #213 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 BLOACK, TAGGED FILL @3207 WLM. RAN BHP GAUGE TO 3000 FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #213 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/3/20



Pressure vs. Depth

Probe Serial Number

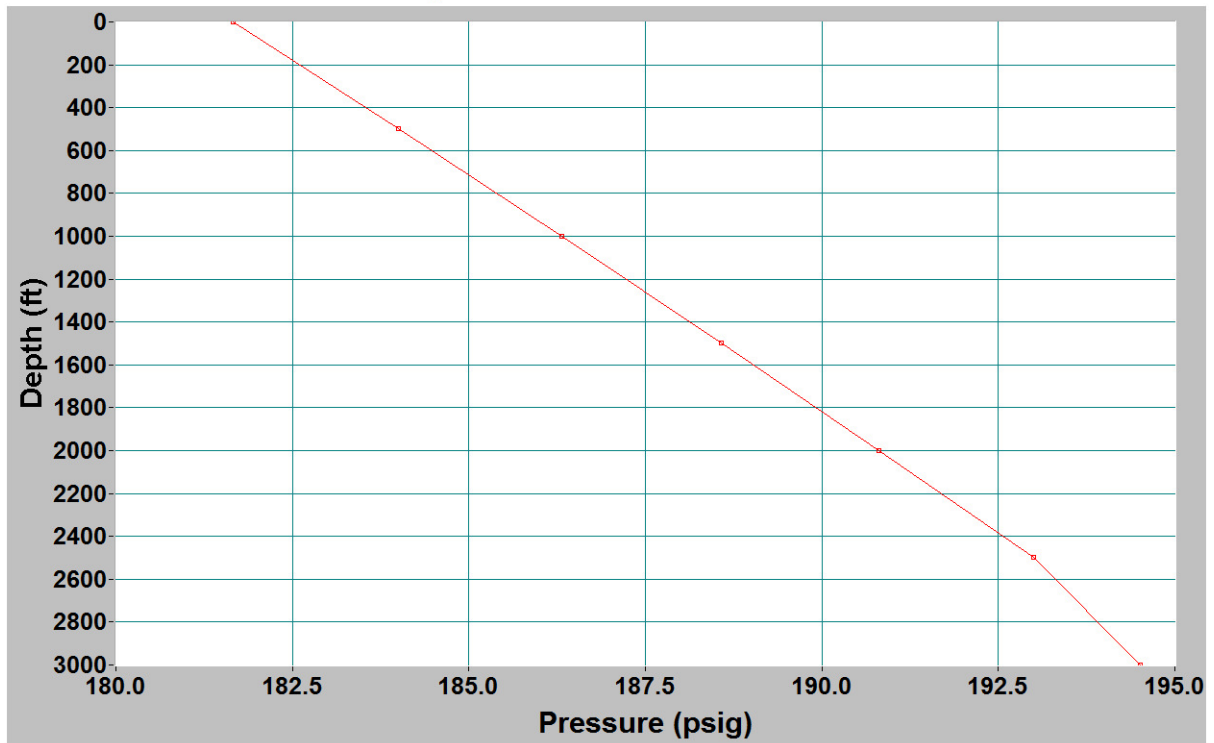
		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1142	1242	3000.000	194.507	-	95.940	-
1244	1249	2500.000	193.004	0.0030	106.864	-0.0218
1251	1256	2000.000	190.812	0.0044	100.697	0.0123
1257	1302	1500.000	188.581	0.0045	92.691	0.0160
1203	1308	1000.000	186.316	0.0045	84.236	0.0169
1310	1315	500.000	184.002	0.0046	76.089	0.0163
1316	1321	0.000	181.656	0.0047	67.878	0.0164

Extrapolated to MPP:

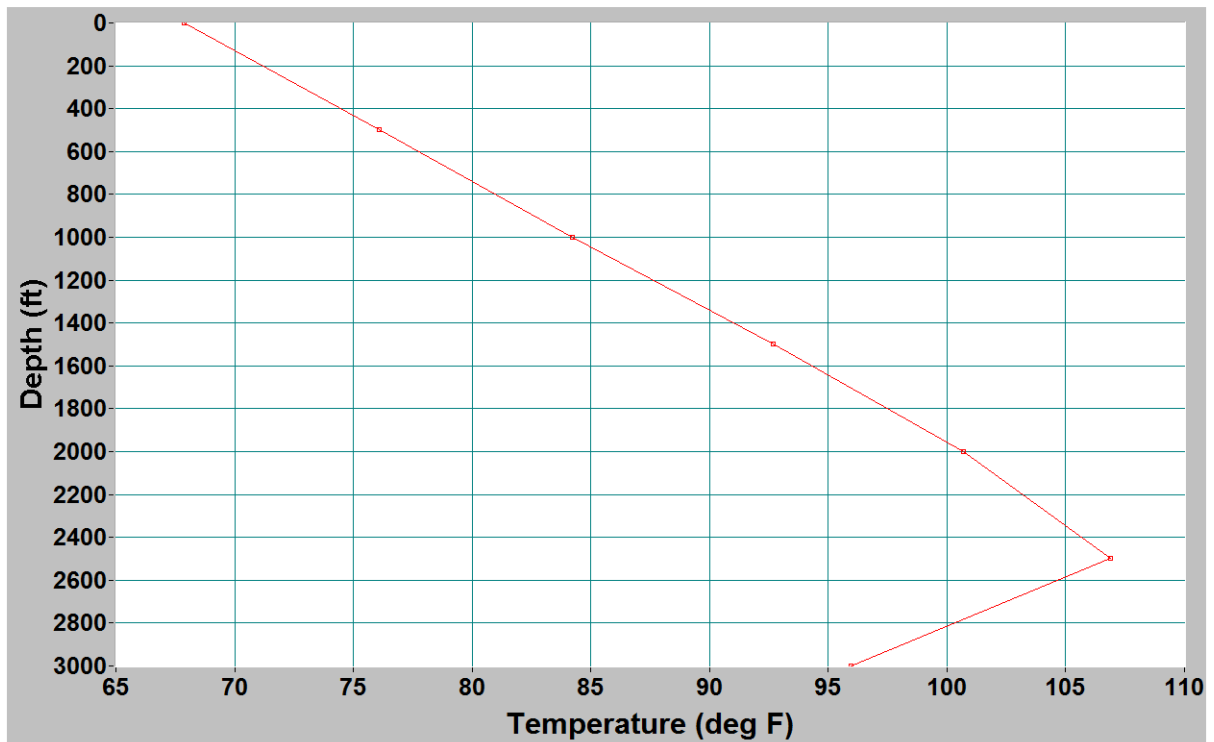
(ft)	(psig)	(deg F)
0.000		

Probe Serial Number

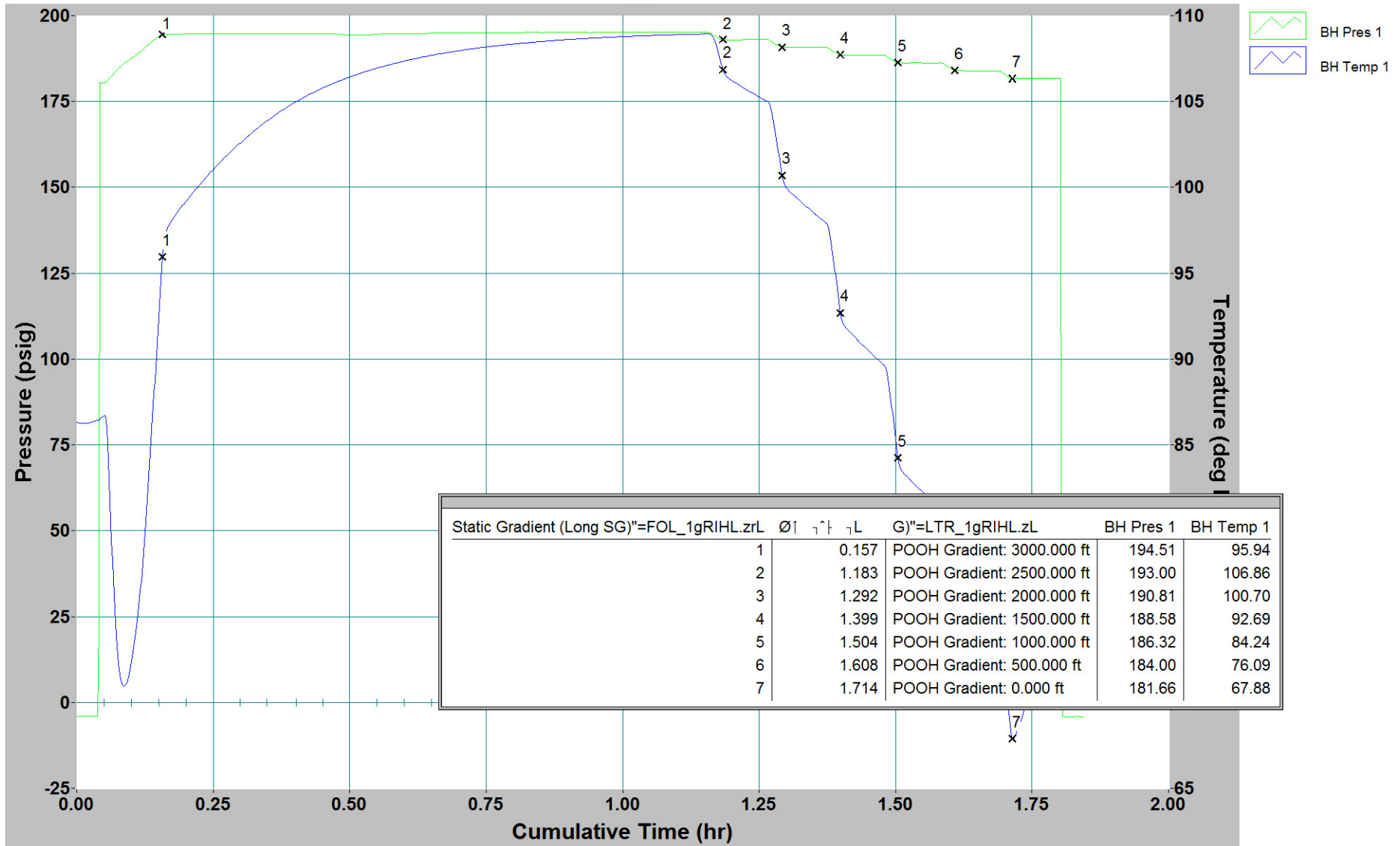
Depth vs. Pressure



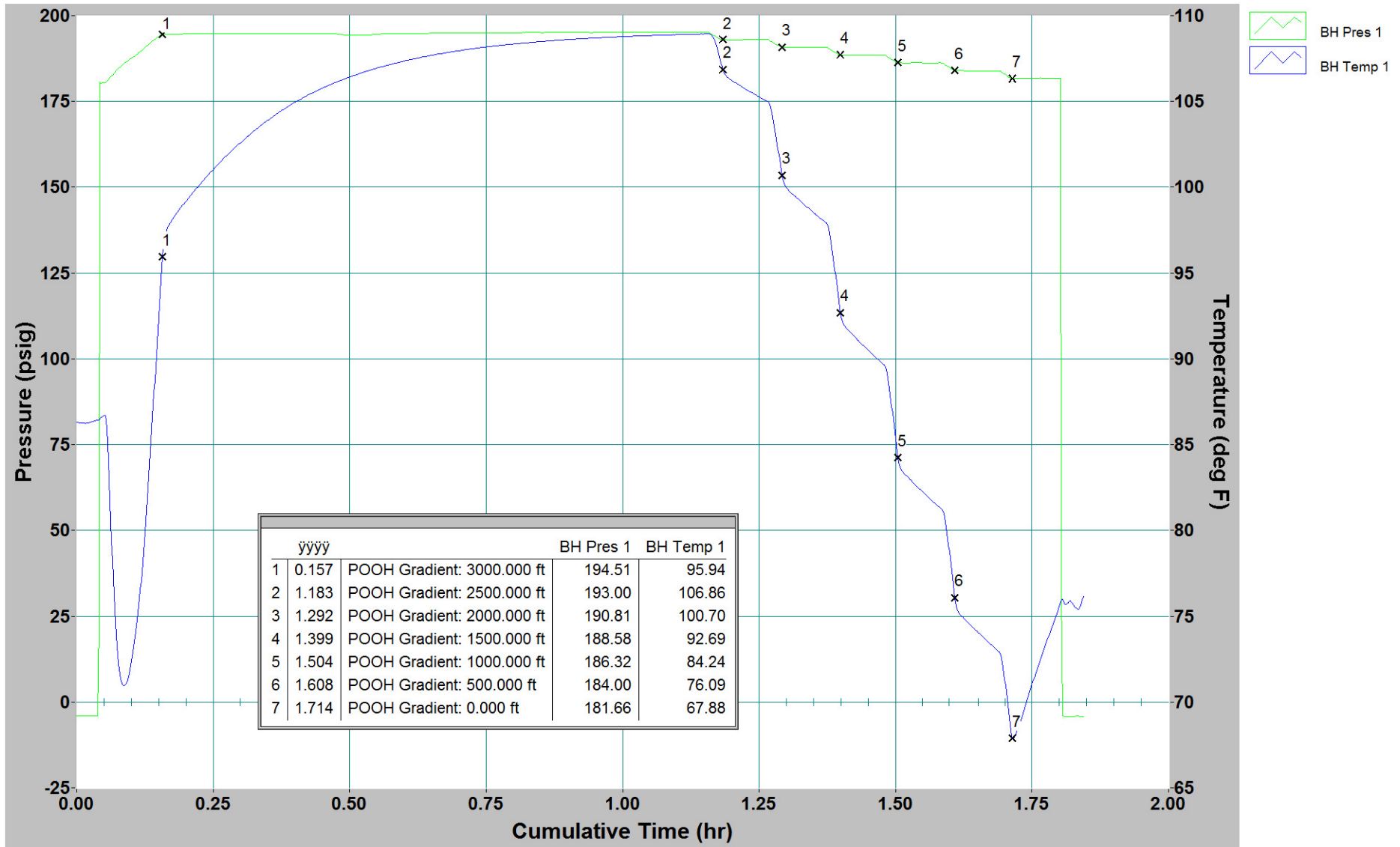
Depth vs. Temperature



SAN JUAN 30-5 @213 POW 2020



SAN JUAN 30-5 #213 POW 2020



Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #213 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	11:33:35	0.0000	-3.959	86.288
2020/06/03	11:34:05	0.0083	-3.974	86.268
2020/06/03	11:34:35	0.0167	-3.993	86.245
2020/06/03	11:35:05	0.0250	-4.008	86.304
2020/06/03	11:35:35	0.0333	-4.038	86.391
2020/06/03	11:36:05	0.0417	180.762	86.482
2020/06/03	11:36:35	0.0500	180.443	86.698
2020/06/03	11:37:05	0.0583	181.425	84.083
2020/06/03	11:37:35	0.0667	182.863	77.218
2020/06/03	11:38:05	0.0750	184.525	72.705
2020/06/03	11:38:35	0.0833	185.545	71.082
2020/06/03	11:39:05	0.0917	186.655	71.159
2020/06/03	11:39:35	0.1000	187.563	72.379
2020/06/03	11:40:05	0.1083	188.390	74.116
2020/06/03	11:40:35	0.1167	189.449	76.545
2020/06/03	11:41:05	0.1250	190.682	79.905
2020/06/03	11:41:35	0.1333	191.870	83.838
2020/06/03	11:42:05	0.1417	192.858	88.020
2020/06/03	11:42:35	0.1500	193.960	92.386
POOH Gradient: 3000.000 ft				
2020/06/03	11:43:00	0.1569	194.507	95.940
2020/06/03	11:43:05	0.1583	194.547	96.408
2020/06/03	11:43:35	0.1667	194.562	97.626
2020/06/03	11:44:05	0.1750	194.592	98.121
2020/06/03	11:44:35	0.1833	194.610	98.497
2020/06/03	11:45:05	0.1917	194.638	98.841
2020/06/03	11:45:35	0.2000	194.668	99.169
2020/06/03	11:46:05	0.2083	194.701	99.500
2020/06/03	11:46:35	0.2167	194.724	99.822
2020/06/03	11:47:05	0.2250	194.734	100.139
2020/06/03	11:47:35	0.2333	194.749	100.447
2020/06/03	11:48:05	0.2417	194.772	100.740
2020/06/03	11:48:35	0.2500	194.783	101.030
2020/06/03	11:49:05	0.2583	194.796	101.318
2020/06/03	11:49:35	0.2667	194.811	101.584
2020/06/03	11:50:05	0.2750	194.800	101.853
2020/06/03	11:50:35	0.2833	194.813	102.105
2020/06/03	11:51:05	0.2917	194.813	102.355
2020/06/03	11:51:35	0.3000	194.776	102.585
2020/06/03	11:52:05	0.3083	194.784	102.823
2020/06/03	11:52:35	0.3167	194.786	103.057
2020/06/03	11:53:05	0.3250	194.787	103.282
2020/06/03	11:53:35	0.3333	194.774	103.496
2020/06/03	11:54:05	0.3417	194.787	103.707
2020/06/03	11:54:35	0.3500	194.802	103.910
2020/06/03	11:55:05	0.3583	194.803	104.094
2020/06/03	11:55:35	0.3667	194.807	104.283
2020/06/03	11:56:05	0.3750	194.797	104.464
2020/06/03	11:56:35	0.3833	194.797	104.639
2020/06/03	11:57:05	0.3917	194.795	104.797
2020/06/03	11:57:35	0.4000	194.796	104.950
2020/06/03	11:58:05	0.4083	194.791	105.107
2020/06/03	11:58:35	0.4167	194.797	105.253
2020/06/03	11:59:05	0.4250	194.787	105.390

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/03	11:59:35	0.4333	194.750	105.521
2020/06/03	12:00:05	0.4417	194.756	105.656
2020/06/03	12:00:35	0.4500	194.705	105.771
2020/06/03	12:01:05	0.4583	194.712	105.888
2020/06/03	12:01:35	0.4667	194.707	106.009
2020/06/03	12:02:05	0.4750	194.665	106.119
2020/06/03	12:02:35	0.4833	194.525	106.223
2020/06/03	12:03:05	0.4917	194.427	106.324
2020/06/03	12:03:35	0.5000	194.413	106.426
2020/06/03	12:04:05	0.5083	194.383	106.522
2020/06/03	12:04:35	0.5167	194.381	106.612
2020/06/03	12:05:05	0.5250	194.337	106.700
2020/06/03	12:05:35	0.5333	194.329	106.783
2020/06/03	12:06:05	0.5417	194.443	106.866
2020/06/03	12:06:35	0.5500	194.535	106.948
2020/06/03	12:07:05	0.5583	194.747	107.022
2020/06/03	12:07:35	0.5667	194.779	107.094
2020/06/03	12:08:05	0.5750	194.801	107.159
2020/06/03	12:08:35	0.5833	194.801	107.233
2020/06/03	12:09:05	0.5917	194.807	107.294
2020/06/03	12:09:35	0.6000	194.818	107.350
2020/06/03	12:10:05	0.6083	194.831	107.413
2020/06/03	12:10:35	0.6167	194.827	107.481
2020/06/03	12:11:05	0.6250	194.829	107.535
2020/06/03	12:11:35	0.6333	194.843	107.589
2020/06/03	12:12:05	0.6417	194.857	107.638
2020/06/03	12:12:35	0.6500	194.917	107.688
2020/06/03	12:13:05	0.6583	194.932	107.740
2020/06/03	12:13:35	0.6667	194.932	107.784
2020/06/03	12:14:05	0.6750	194.976	107.830
2020/06/03	12:14:35	0.6833	194.947	107.874
2020/06/03	12:15:05	0.6917	194.944	107.917
2020/06/03	12:15:35	0.7000	194.948	107.960
2020/06/03	12:16:05	0.7083	194.968	107.996
2020/06/03	12:16:35	0.7167	194.971	108.034
2020/06/03	12:17:05	0.7250	194.971	108.070
2020/06/03	12:17:35	0.7333	194.972	108.113
2020/06/03	12:18:05	0.7417	194.981	108.144
2020/06/03	12:18:35	0.7500	194.994	108.174
2020/06/03	12:19:05	0.7583	195.013	108.207
2020/06/03	12:19:35	0.7667	195.026	108.237
2020/06/03	12:20:05	0.7750	195.051	108.266
2020/06/03	12:20:35	0.7833	195.047	108.293
2020/06/03	12:21:05	0.7917	195.050	108.322
2020/06/03	12:21:35	0.8000	195.052	108.349
2020/06/03	12:22:05	0.8083	195.068	108.378
2020/06/03	12:22:35	0.8167	195.070	108.401
2020/06/03	12:23:05	0.8250	195.075	108.423
2020/06/03	12:23:35	0.8333	195.080	108.446
2020/06/03	12:24:05	0.8417	195.086	108.468
2020/06/03	12:24:35	0.8500	195.071	108.489
2020/06/03	12:25:05	0.8583	195.073	108.509
2020/06/03	12:25:35	0.8667	195.075	108.534
2020/06/03	12:26:05	0.8750	195.084	108.554

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #213 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	12:26:35	0.8833	195.085	108.568
2020/06/03	12:27:05	0.8917	195.083	108.585
2020/06/03	12:27:35	0.9000	195.101	108.604
2020/06/03	12:28:05	0.9083	195.103	108.622
2020/06/03	12:28:35	0.9167	195.111	108.644
2020/06/03	12:29:05	0.9250	195.099	108.655
2020/06/03	12:29:35	0.9333	195.120	108.669
2020/06/03	12:30:05	0.9417	195.037	108.684
2020/06/03	12:30:35	0.9500	195.094	108.702
2020/06/03	12:31:05	0.9583	195.124	108.716
2020/06/03	12:31:35	0.9667	195.133	108.734
2020/06/03	12:32:05	0.9750	195.130	108.736
2020/06/03	12:32:35	0.9833	195.131	108.752
2020/06/03	12:33:05	0.9917	195.132	108.768
2020/06/03	12:33:35	1.0000	195.124	108.781
2020/06/03	12:34:05	1.0083	195.157	108.792
2020/06/03	12:34:35	1.0167	195.159	108.804
2020/06/03	12:35:05	1.0250	195.156	108.815
2020/06/03	12:35:35	1.0333	195.167	108.822
2020/06/03	12:36:05	1.0417	195.155	108.833
2020/06/03	12:36:35	1.0500	195.175	108.846
2020/06/03	12:37:05	1.0583	195.192	108.851
2020/06/03	12:37:35	1.0667	195.199	108.860
2020/06/03	12:38:05	1.0750	195.197	108.865
2020/06/03	12:38:35	1.0833	195.191	108.880
2020/06/03	12:39:05	1.0917	195.227	108.882
2020/06/03	12:39:35	1.1000	195.189	108.891
2020/06/03	12:40:05	1.1083	195.216	108.901
2020/06/03	12:40:35	1.1167	195.210	108.903
2020/06/03	12:41:05	1.1250	195.211	108.916
2020/06/03	12:41:35	1.1333	195.215	108.919
2020/06/03	12:42:05	1.1417	195.212	108.928
2020/06/03	12:42:35	1.1500	195.210	108.937
2020/06/03	12:43:05	1.1583	195.046	108.934
2020/06/03	12:43:35	1.1667	194.226	108.682
2020/06/03	12:44:05	1.1750	193.503	107.953
POOH Gradient: 2500.000 ft				
2020/06/03	12:44:35	1.1833	193.004	106.864
2020/06/03	12:45:05	1.1917	192.974	106.414
2020/06/03	12:45:35	1.2000	192.966	106.219
2020/06/03	12:46:05	1.2083	192.971	106.054
2020/06/03	12:46:35	1.2167	192.963	105.885
2020/06/03	12:47:05	1.2250	193.011	105.728
2020/06/03	12:47:35	1.2333	192.993	105.571
2020/06/03	12:48:05	1.2417	192.983	105.422
2020/06/03	12:48:35	1.2500	192.982	105.262
2020/06/03	12:49:05	1.2583	192.979	105.116
2020/06/03	12:49:35	1.2667	192.989	104.974
2020/06/03	12:50:05	1.2750	192.177	104.067
2020/06/03	12:50:35	1.2833	191.427	102.510
POOH Gradient: 2000.000 ft				
2020/06/03	12:51:05	1.2917	190.812	100.697
2020/06/03	12:51:35	1.3000	190.780	99.991
2020/06/03	12:52:05	1.3083	190.759	99.703

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/03	12:52:35	1.3167	190.772	99.453
2020/06/03	12:53:05	1.3250	190.806	99.210
2020/06/03	12:53:35	1.3333	190.786	98.973
2020/06/03	12:54:05	1.3417	190.763	98.744
2020/06/03	12:54:35	1.3500	190.750	98.521
2020/06/03	12:55:05	1.3583	190.750	98.298
2020/06/03	12:55:35	1.3667	190.815	98.082
2020/06/03	12:56:05	1.3750	190.689	97.853
2020/06/03	12:56:35	1.3833	189.954	96.476
2020/06/03	12:57:05	1.3917	189.036	94.474
POOH Gradient: 1500.000 ft				
2020/06/03	12:57:30	1.3986	188.581	92.691
2020/06/03	12:57:35	1.4000	188.565	92.467
2020/06/03	12:58:05	1.4083	188.536	91.872
2020/06/03	12:58:35	1.4167	188.526	91.562
2020/06/03	12:59:05	1.4250	188.524	91.287
2020/06/03	12:59:35	1.4333	188.508	91.020
2020/06/03	13:00:05	1.4417	188.517	90.757
2020/06/03	13:00:35	1.4500	188.522	90.509
2020/06/03	13:01:05	1.4583	188.538	90.252
2020/06/03	13:01:35	1.4667	188.507	90.005
2020/06/03	13:02:05	1.4750	188.501	89.755
2020/06/03	13:02:35	1.4833	188.226	89.366
2020/06/03	13:03:05	1.4917	187.421	87.571
2020/06/03	13:03:35	1.5000	186.506	85.339
POOH Gradient: 1000.000 ft				
2020/06/03	13:03:50	1.5042	186.316	84.236
2020/06/03	13:04:05	1.5083	186.275	83.710
2020/06/03	13:04:35	1.5167	186.252	83.302
2020/06/03	13:05:05	1.5250	186.253	83.021
2020/06/03	13:05:35	1.5333	186.281	82.760
2020/06/03	13:06:05	1.5417	186.277	82.494
2020/06/03	13:06:35	1.5500	186.261	82.233
2020/06/03	13:07:05	1.5583	186.264	81.982
2020/06/03	13:07:35	1.5667	186.246	81.739
2020/06/03	13:08:05	1.5750	186.235	81.495
2020/06/03	13:08:35	1.5833	186.258	81.257
2020/06/03	13:09:05	1.5917	185.596	80.479
2020/06/03	13:09:35	1.6000	184.675	78.397
POOH Gradient: 500.000 ft				
2020/06/03	13:10:05	1.6083	184.002	76.089
2020/06/03	13:10:35	1.6167	183.976	75.191
2020/06/03	13:11:05	1.6250	183.954	74.871
2020/06/03	13:11:35	1.6333	183.931	74.602
2020/06/03	13:12:05	1.6417	183.914	74.345
2020/06/03	13:12:35	1.6500	183.925	74.080
2020/06/03	13:13:05	1.6583	183.909	73.830
2020/06/03	13:13:35	1.6667	183.922	73.587
2020/06/03	13:14:05	1.6750	183.953	73.339
2020/06/03	13:14:35	1.6833	183.931	73.103
2020/06/03	13:15:05	1.6917	183.903	72.858
2020/06/03	13:15:35	1.7000	182.946	71.326
2020/06/03	13:16:05	1.7083	181.911	69.055
POOH Gradient: 0.000 ft				

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #213 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	13:16:25	1.7139	181.656	67.878
2020/06/03	13:16:35	1.7167	181.658	67.870
2020/06/03	13:17:05	1.7250	181.704	68.515
2020/06/03	13:17:35	1.7333	181.766	69.337
2020/06/03	13:18:05	1.7417	181.811	70.192
2020/06/03	13:18:35	1.7500	181.837	71.022
2020/06/03	13:19:05	1.7583	181.825	71.830
2020/06/03	13:19:35	1.7667	181.784	72.608
2020/06/03	13:20:05	1.7750	181.830	73.357
2020/06/03	13:20:35	1.7833	181.818	74.091
2020/06/03	13:21:05	1.7917	181.836	74.804
2020/06/03	13:21:35	1.8000	181.769	75.556
2020/06/03	13:22:05	1.8083	-4.178	75.774
2020/06/03	13:22:35	1.8167	-4.191	75.796
2020/06/03	13:23:05	1.8250	-4.169	75.717
2020/06/03	13:23:35	1.8333	-4.129	75.412
2020/06/03	13:24:05	1.8417	-4.210	75.925