

MK

Pressure Test Report

COMPANY INFORMATION

Company Name	Hilcorp
Representative	Priscilla Shorty
Phone	
Fax	
Address	

NMOC D

JUN 04 2018

DISTRICT III

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

WELL INFORMATION

Well Name	San Juan 30-6 Unit 402 POW
Well Location	T30N, R6W, Sec 15
Field and Pool	Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	12
Casing Flange (CF)	
KB-CF	
Ground Level	6250
Plug Back Total Depth	3155
Total Depth	3160
Production Casing	5 1/2 to 3156
Production Tubing	2 3/8 to 3041

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/25/18
Dead-weight Gauge Tubing Pressure	20
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/25/18 @0917
Date / Time off Bottom	5/25/18 @1017
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3130

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	65.1 psig
Maximum Recorded Probe Temperature	108.2 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 30-6 Unit 402 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/25/18



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

Con / S Hilcorp
Well Name San Juan 30-6 Unit 402 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/25/18



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @3135 WLM. RIH with BHP gauge to 3130 for 1 hour, then POOH making 5 minute stops per request.

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Pressure vs. Depth

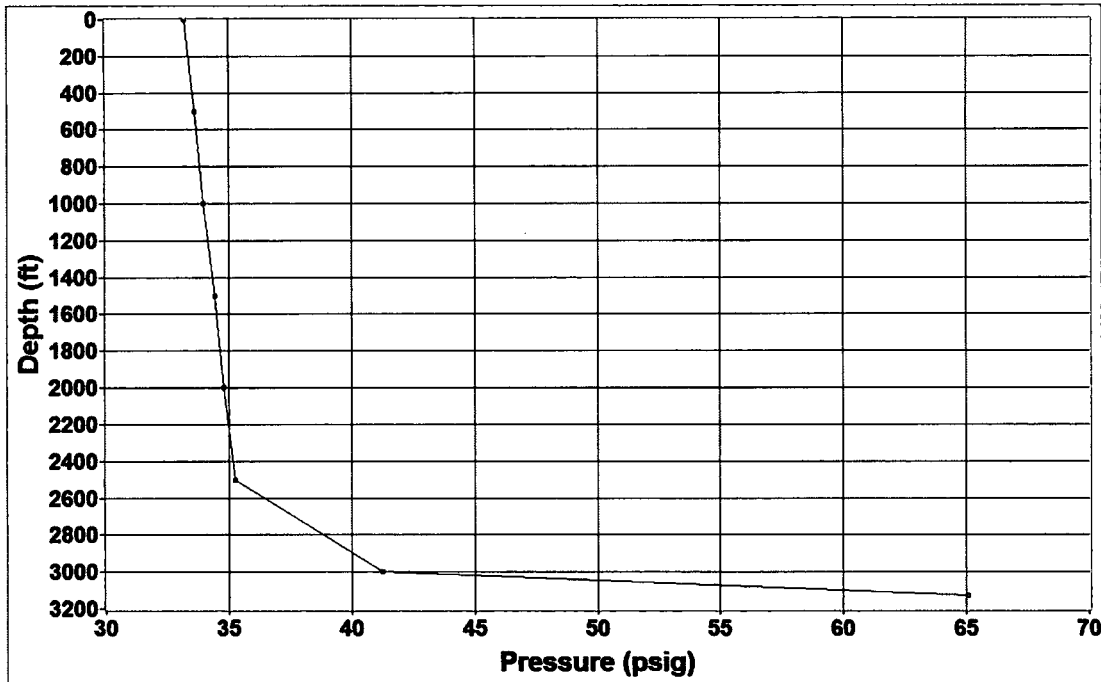
Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0917	1017	3130.000	65.075	-	91.290	-
1018	1023	3000.000	41.246	0.1833	108.032	-0.1288
1024	1029	2500.000	35.244	0.0120	105.051	0.0060
1030	1035	2000.000	34.779	0.0009	99.945	0.0102
1036	1041	1500.000	34.419	0.0007	94.921	0.0100
1043	1048	1000.000	33.970	0.0009	88.227	0.0134
1049	1054	500.000	33.628	0.0007	82.074	0.0123
1055	1100	0.000	33.226	0.0008	75.304	0.0135

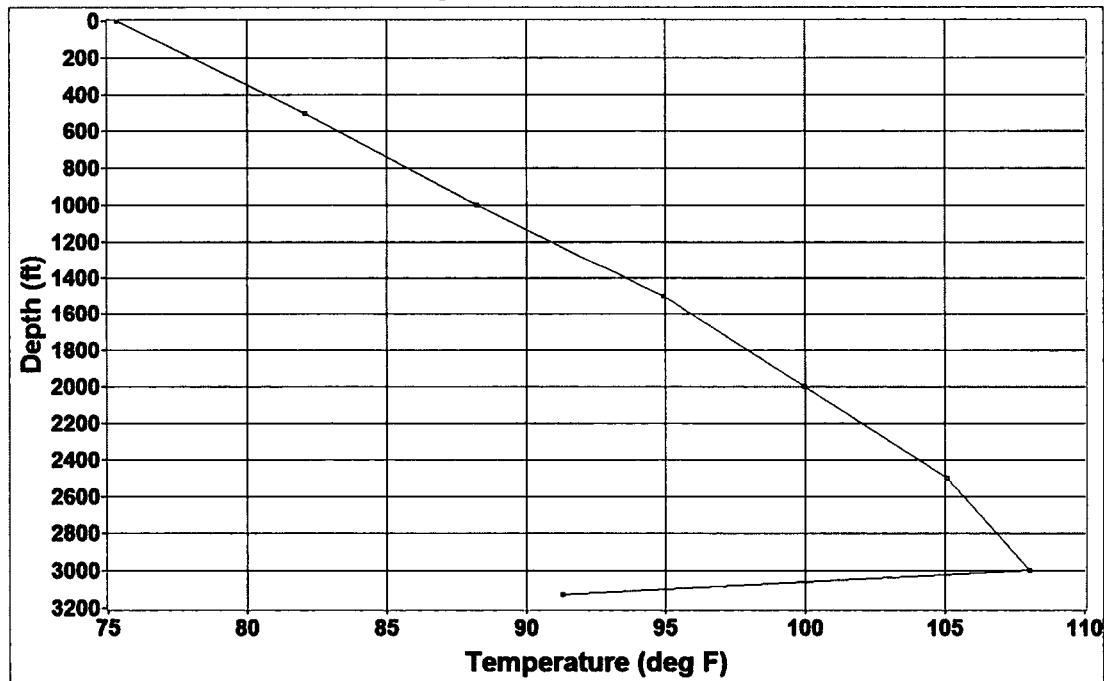
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

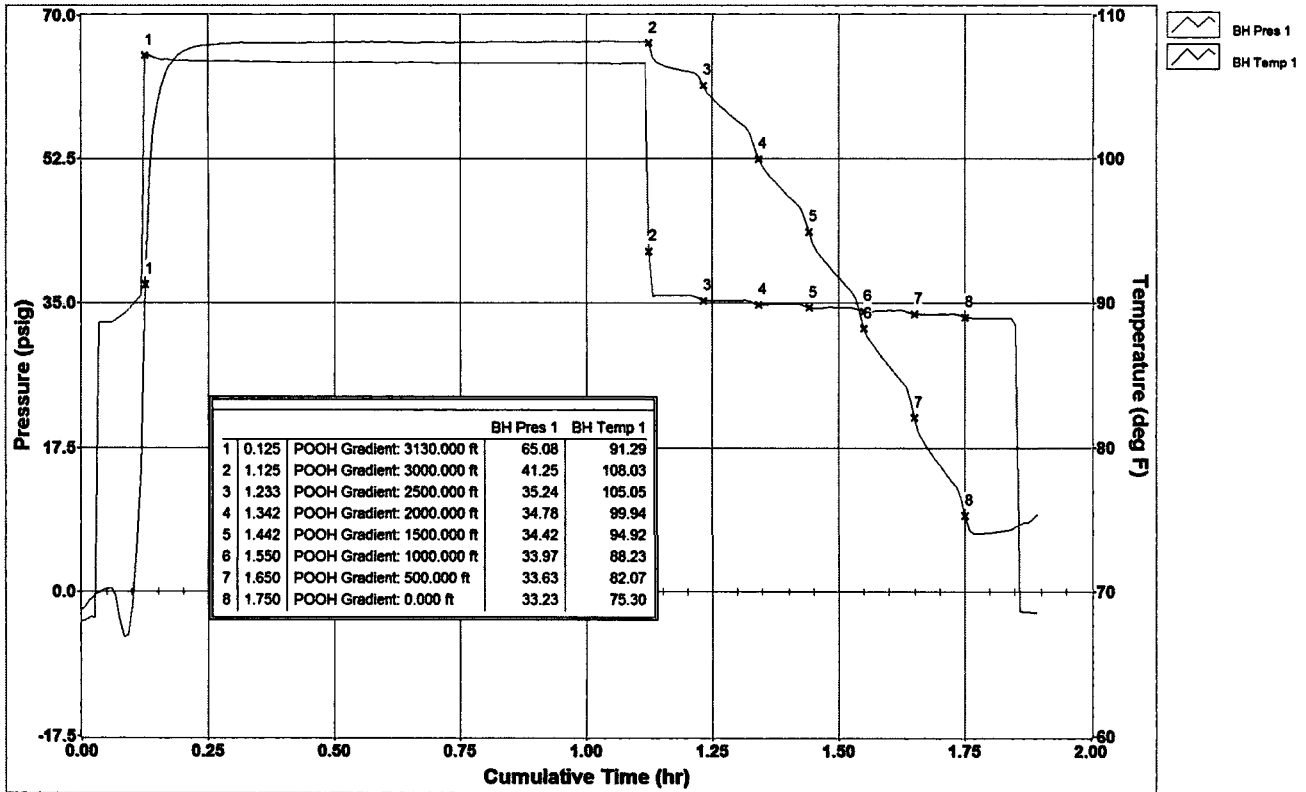
W1036 Depth vs. Pressure



W1036 Depth vs. Temperature



San Juan 30-6 Unit POW #402



Company Name Hilcorp
Well Name San Juan 30-6 Unit 402 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/25/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/25	09:10:20	0.0000	-3.567	68.796
2018/05/25	09:10:50	0.0083	-3.377	69.049
2018/05/25	09:11:20	0.0167	-3.098	69.456
2018/05/25	09:11:50	0.0250	-3.110	69.782
2018/05/25	09:12:20	0.0333	32.649	69.946
2018/05/25	09:12:50	0.0417	32.647	70.124
2018/05/25	09:13:20	0.0500	32.651	70.198
2018/05/25	09:13:50	0.0583	32.685	70.245
2018/05/25	09:14:20	0.0667	32.974	69.751
2018/05/25	09:14:50	0.0750	33.327	68.063
2018/05/25	09:15:20	0.0833	33.678	66.850
2018/05/25	09:15:50	0.0917	34.173	67.030
2018/05/25	09:16:20	0.1000	34.738	69.037
2018/05/25	09:16:50	0.1083	35.304	72.909
2018/05/25	09:17:20	0.1167	35.906	78.517
POOH Gradient: 3130.000 ft				
2018/05/25	09:17:50	0.1250	65.075	91.290
2018/05/25	09:18:20	0.1333	65.143	98.580
2018/05/25	09:18:50	0.1417	64.853	101.890
2018/05/25	09:19:20	0.1500	64.675	103.834
2018/05/25	09:19:50	0.1583	64.538	105.109
2018/05/25	09:20:20	0.1667	64.587	105.958
2018/05/25	09:20:50	0.1750	64.529	106.516
2018/05/25	09:21:20	0.1833	64.485	106.947
2018/05/25	09:21:50	0.1917	64.454	107.236
2018/05/25	09:22:20	0.2000	64.432	107.438
2018/05/25	09:22:50	0.2083	64.417	107.598
2018/05/25	09:23:20	0.2167	64.406	107.708
2018/05/25	09:23:50	0.2250	64.395	107.805
2018/05/25	09:24:20	0.2333	64.387	107.857
2018/05/25	09:24:50	0.2417	64.380	107.895
2018/05/25	09:25:20	0.2500	64.380	107.919
2018/05/25	09:25:50	0.2583	64.374	107.947
2018/05/25	09:26:20	0.2667	64.369	107.971
2018/05/25	09:26:50	0.2750	64.364	107.989
2018/05/25	09:27:20	0.2833	64.360	108.007
2018/05/25	09:27:50	0.2917	64.356	108.018
2018/05/25	09:28:20	0.3000	64.351	108.039
2018/05/25	09:28:50	0.3083	64.347	108.046
2018/05/25	09:29:20	0.3167	64.295	108.066
2018/05/25	09:29:50	0.3250	64.299	108.050
2018/05/25	09:30:20	0.3333	64.297	108.041
2018/05/25	09:30:50	0.3417	64.294	108.048
2018/05/25	09:31:20	0.3500	64.291	108.046
2018/05/25	09:31:50	0.3583	64.289	108.045
2018/05/25	09:32:20	0.3667	64.287	108.036
2018/05/25	09:32:50	0.3750	64.285	108.055
2018/05/25	09:33:20	0.3833	64.285	108.054
2018/05/25	09:33:50	0.3917	64.244	108.041
2018/05/25	09:34:20	0.4000	64.244	108.041
2018/05/25	09:34:50	0.4083	64.239	108.059
2018/05/25	09:35:20	0.4167	64.242	108.061
2018/05/25	09:35:50	0.4250	64.240	108.050
2018/05/25	09:36:20	0.4333	64.240	108.057

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/25	09:36:50	0.4417	64.236	108.064
2018/05/25	09:37:20	0.4500	64.191	108.070
2018/05/25	09:37:50	0.4583	64.193	108.070
2018/05/25	09:38:20	0.4667	64.192	108.079
2018/05/25	09:38:50	0.4750	64.189	108.084
2018/05/25	09:39:20	0.4833	64.186	108.088
2018/05/25	09:39:50	0.4917	64.219	108.093
2018/05/25	09:40:20	0.5000	64.218	108.099
2018/05/25	09:40:50	0.5083	64.214	108.111
2018/05/25	09:41:20	0.5167	64.212	108.104
2018/05/25	09:41:50	0.5250	64.208	108.117
2018/05/25	09:42:20	0.5333	64.206	108.106
2018/05/25	09:42:50	0.5417	64.204	108.100
2018/05/25	09:43:20	0.5500	64.202	108.095
2018/05/25	09:43:50	0.5583	64.202	108.118
2018/05/25	09:44:20	0.5667	64.206	108.106
2018/05/25	09:44:50	0.5750	64.202	108.118
2018/05/25	09:45:20	0.5833	64.200	108.111
2018/05/25	09:45:50	0.5917	64.198	108.106
2018/05/25	09:46:20	0.6000	64.195	108.108
2018/05/25	09:46:50	0.6083	64.197	108.113
2018/05/25	09:47:20	0.6167	64.171	108.095
2018/05/25	09:47:50	0.6250	64.169	108.088
2018/05/25	09:48:20	0.6333	64.173	108.081
2018/05/25	09:48:50	0.6417	64.178	108.054
2018/05/25	09:49:20	0.6500	64.177	108.041
2018/05/25	09:49:50	0.6583	64.172	108.064
2018/05/25	09:50:20	0.6667	64.173	108.054
2018/05/25	09:50:50	0.6750	64.173	108.079
2018/05/25	09:51:20	0.6833	64.173	108.082
2018/05/25	09:51:50	0.6917	64.171	108.093
2018/05/25	09:52:20	0.7000	64.167	108.109
2018/05/25	09:52:50	0.7083	64.163	108.095
2018/05/25	09:53:20	0.7167	64.164	108.084
2018/05/25	09:53:50	0.7250	64.163	108.064
2018/05/25	09:54:20	0.7333	64.161	108.059
2018/05/25	09:54:50	0.7417	64.157	108.070
2018/05/25	09:55:20	0.7500	64.153	108.086
2018/05/25	09:55:50	0.7583	64.150	108.084
2018/05/25	09:56:20	0.7667	64.147	108.084
2018/05/25	09:56:50	0.7750	64.145	108.077
2018/05/25	09:57:20	0.7833	64.143	108.097
2018/05/25	09:57:50	0.7917	64.140	108.100
2018/05/25	09:58:20	0.8000	64.142	108.106
2018/05/25	09:58:50	0.8083	64.138	108.122
2018/05/25	09:59:20	0.8167	64.140	108.127
2018/05/25	09:59:50	0.8250	64.142	108.131
2018/05/25	10:00:20	0.8333	64.139	108.133
2018/05/25	10:00:50	0.8417	64.119	108.138
2018/05/25	10:01:20	0.8500	64.117	108.127
2018/05/25	10:01:50	0.8583	64.121	108.117
2018/05/25	10:02:20	0.8667	64.119	108.111
2018/05/25	10:02:50	0.8750	64.124	108.095
2018/05/25	10:03:20	0.8833	64.122	108.086

Company Name Hllcorp
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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/25	10:03:50	0.8917	64.118	108.091
2018/05/25	10:04:20	0.9000	64.119	108.108
2018/05/25	10:04:50	0.9083	64.117	108.108
2018/05/25	10:05:20	0.9167	64.115	108.122
2018/05/25	10:05:50	0.9250	64.111	108.131
2018/05/25	10:06:20	0.9333	64.113	108.142
2018/05/25	10:06:50	0.9417	64.111	108.131
2018/05/25	10:07:20	0.9500	64.109	108.126
2018/05/25	10:07:50	0.9583	64.112	108.127
2018/05/25	10:08:20	0.9667	64.112	108.120
2018/05/25	10:08:50	0.9750	64.110	108.113
2018/05/25	10:09:20	0.9833	64.112	108.099
2018/05/25	10:09:50	0.9917	64.107	108.117
2018/05/25	10:10:20	1.0000	64.104	108.124
2018/05/25	10:10:50	1.0083	64.101	108.126
2018/05/25	10:11:20	1.0167	64.097	108.133
2018/05/25	10:11:50	1.0250	64.092	108.156
2018/05/25	10:12:20	1.0333	64.089	108.162
2018/05/25	10:12:50	1.0417	64.088	108.163
2018/05/25	10:13:20	1.0500	64.086	108.160
2018/05/25	10:13:50	1.0583	64.086	108.135
2018/05/25	10:14:20	1.0667	64.087	108.124
2018/05/25	10:14:50	1.0750	64.090	108.122
2018/05/25	10:15:20	1.0833	64.092	108.129
2018/05/25	10:15:50	1.0917	64.093	108.118
2018/05/25	10:16:20	1.1000	64.089	108.127
2018/05/25	10:16:50	1.1083	64.093	108.122
2018/05/25	10:17:20	1.1167	64.089	108.129
POOH Gradient: 3000.000 ft				
2018/05/25	10:17:50	1.1250	41.246	108.032
2018/05/25	10:18:20	1.1333	35.872	106.948
2018/05/25	10:18:50	1.1417	35.880	106.637
2018/05/25	10:19:20	1.1500	35.899	106.482
2018/05/25	10:19:50	1.1583	35.908	106.380
2018/05/25	10:20:20	1.1667	35.912	106.299
2018/05/25	10:20:50	1.1750	35.917	106.221
2018/05/25	10:21:20	1.1833	35.923	106.160
2018/05/25	10:21:50	1.1917	35.912	106.102
2018/05/25	10:22:20	1.2000	35.904	106.043
2018/05/25	10:22:50	1.2083	35.905	105.994
2018/05/25	10:23:20	1.2167	35.746	105.919
2018/05/25	10:23:50	1.2250	35.473	105.625
POOH Gradient: 2500.000 ft				
2018/05/25	10:24:20	1.2333	35.244	105.051
2018/05/25	10:24:50	1.2417	35.291	104.484
2018/05/25	10:25:20	1.2500	35.256	104.157
2018/05/25	10:25:50	1.2583	35.296	103.870
2018/05/25	10:26:20	1.2667	35.282	103.588
2018/05/25	10:26:50	1.2750	35.248	103.330
2018/05/25	10:27:20	1.2833	35.262	103.066
2018/05/25	10:27:50	1.2917	35.285	102.819
2018/05/25	10:28:20	1.3000	35.268	102.580
2018/05/25	10:28:50	1.3083	35.278	102.344
2018/05/25	10:29:20	1.3167	35.311	102.108

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/25	10:29:50	1.3250	35.197	101.683
2018/05/25	10:30:20	1.3333	34.902	100.881
POOH Gradient: 2000.000 ft				
2018/05/25	10:30:50	1.3417	34.779	99.945
2018/05/25	10:31:20	1.3500	34.795	99.410
2018/05/25	10:31:50	1.3583	34.772	99.025
2018/05/25	10:32:20	1.3667	34.822	98.681
2018/05/25	10:32:50	1.3750	34.815	98.355
2018/05/25	10:33:20	1.3833	34.852	98.044
2018/05/25	10:33:50	1.3917	34.830	97.729
2018/05/25	10:34:20	1.4000	34.873	97.435
2018/05/25	10:34:50	1.4083	34.849	97.149
2018/05/25	10:35:20	1.4167	34.863	96.867
2018/05/25	10:35:50	1.4250	34.852	96.582
2018/05/25	10:36:20	1.4333	34.628	95.889
POOH Gradient: 1500.000 ft				
2018/05/25	10:36:50	1.4417	34.419	94.921
2018/05/25	10:37:20	1.4500	34.381	94.033
2018/05/25	10:37:50	1.4583	34.368	93.573
2018/05/25	10:38:20	1.4667	34.382	93.180
2018/05/25	10:38:50	1.4750	34.442	92.815
2018/05/25	10:39:20	1.4833	34.493	92.467
2018/05/25	10:39:50	1.4917	34.436	92.127
2018/05/25	10:40:20	1.5000	34.479	91.800
2018/05/25	10:40:50	1.5083	34.443	91.470
2018/05/25	10:41:20	1.5167	34.452	91.150
2018/05/25	10:41:50	1.5250	34.441	90.837
2018/05/25	10:42:20	1.5333	34.316	90.352
2018/05/25	10:42:50	1.5417	34.107	89.373
POOH Gradient: 1000.000 ft				
2018/05/25	10:43:20	1.5500	33.970	88.227
2018/05/25	10:43:50	1.5583	34.039	87.593
2018/05/25	10:44:20	1.5667	33.987	87.147
2018/05/25	10:44:50	1.5750	34.033	86.738
2018/05/25	10:45:20	1.5833	34.063	86.356
2018/05/25	10:45:50	1.5917	34.039	85.986
2018/05/25	10:46:20	1.6000	34.087	85.627
2018/05/25	10:46:50	1.6083	34.061	85.276
2018/05/25	10:47:20	1.6167	34.085	84.934
2018/05/25	10:47:50	1.6250	34.081	84.596
2018/05/25	10:48:20	1.6333	33.963	84.240
2018/05/25	10:48:50	1.6417	33.799	83.347
POOH Gradient: 500.000 ft				
2018/05/25	10:49:20	1.6500	33.628	82.074
2018/05/25	10:49:50	1.6583	33.606	81.072
2018/05/25	10:50:20	1.6667	33.663	80.524
2018/05/25	10:50:50	1.6750	33.654	80.058
2018/05/25	10:51:20	1.6833	33.591	79.626
2018/05/25	10:51:50	1.6917	33.661	79.209
2018/05/25	10:52:20	1.7000	33.643	78.813
2018/05/25	10:52:50	1.7083	33.639	78.417
2018/05/25	10:53:20	1.7167	33.631	78.033
2018/05/25	10:53:50	1.7250	33.698	77.646
2018/05/25	10:54:20	1.7333	33.657	77.281

Cor / Hilcorp
 Well Name San Juan 30-6 Unit 402 POW
 Type of Test POOH Static Gradient
 Date(s) of Test 5/25/18



Date	Time	Cum. Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/25	10:54:50	1.7417	33.477	76.557
POOH Gradient: 0.000 ft				
2018/05/25	10:55:20	1.7500	33.226	75.304
2018/05/25	10:55:50	1.7583	33.197	74.304
2018/05/25	10:56:20	1.7667	33.170	74.088
2018/05/25	10:56:50	1.7750	33.173	74.053
2018/05/25	10:57:20	1.7833	33.170	74.057
2018/05/25	10:57:50	1.7917	33.165	74.098
2018/05/25	10:58:20	1.8000	33.180	74.131
2018/05/25	10:58:50	1.8083	33.176	74.170
2018/05/25	10:59:20	1.8167	33.171	74.212
2018/05/25	10:59:50	1.8250	33.164	74.260
2018/05/25	11:00:20	1.8333	33.159	74.302
2018/05/25	11:00:50	1.8417	33.151	74.363
2018/05/25	11:01:20	1.8500	32.290	74.559
2018/05/25	11:01:50	1.8583	-2.369	74.694
2018/05/25	11:02:20	1.8667	-2.400	74.817
2018/05/25	11:02:50	1.8750	-2.403	74.827
2018/05/25	11:03:20	1.8833	-2.455	75.067