

MLC

Pressure Test Report

COMPANY INFORMATION

Company Name	Hilcorp
Representative	Priscilla Shorty
Phone	
Fax	
Address	

NMOCD

JUN 04 2018

DISTRICT III

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

WELL INFORMATION

Well Name	San Juan 30-5 Unit #219
Well Location	T30N, R5W, Sec 16
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	3044-3080
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13
Casing Flange (CF)	
KB-CF	
Ground Level	6344
Plug Back Total Depth	3096
Total Depth	3096
Production Casing	5 1/2 to 3096
Production Tubing	2 3/8 to 2864

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/24/18
Dead-weight Gauge Tubing Pressure	10
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/24/18 @0942
Date / Time off Bottom	5/24/18 @1042
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3065

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	59.9 psig
Maximum Recorded Probe Temperature	113.6 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 #219
Type of Test POOH Static Gradient
Date(s) of Test 5/24/18



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

Company Name	Hilcorp
Well Name	San Juan 30-5 Unit #219
Type of Test	POOH Static Gradient
Date(s) of Test	5/24/16



COMMENTS

Reported By

Expert Downhole Services, Inc

RIH with 1.50 IB and tagged fill @3069 WLM. RIH with BHP gauge to 3065 for 1 hour, then POOH making 5 minute stops per request.

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Pressure vs. Depth

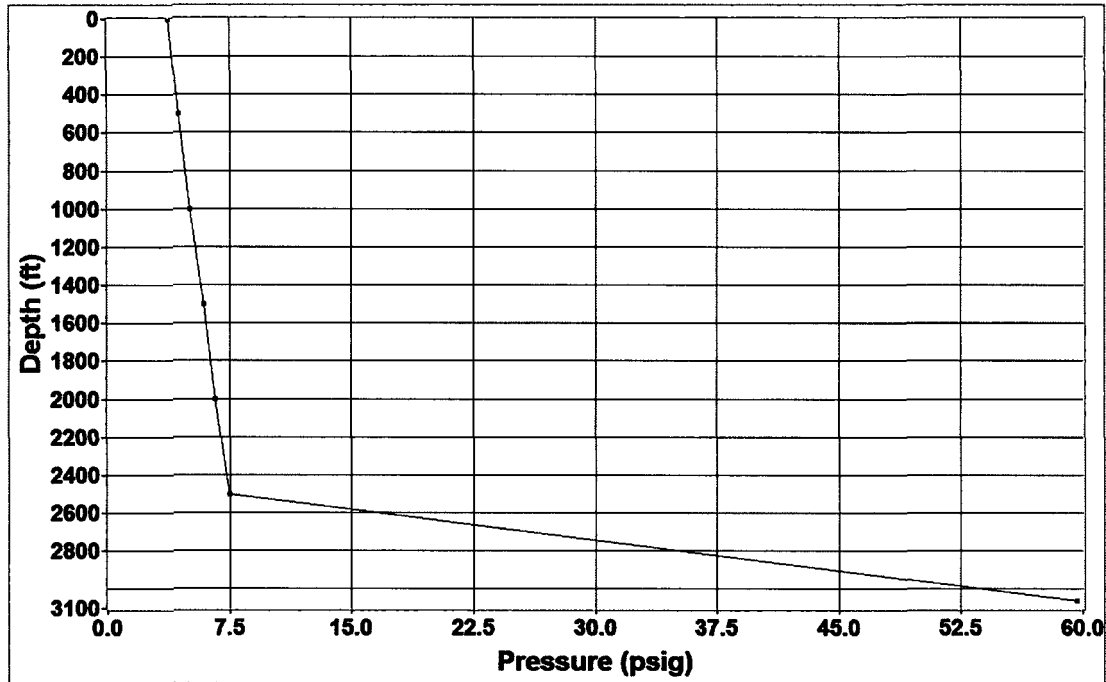
Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0942	1042	3065.000	59.597	-	89.659	-
1043	1048	2500.000	7.474	0.0923	109.315	-0.0348
1049	1054	2000.000	6.597	0.0018	104.389	0.0099
1056	1101	1500.000	5.890	0.0014	99.851	0.0091
1102	1107	1000.000	5.030	0.0017	94.131	0.0114
1108	1113	500.000	4.353	0.0014	88.810	0.0106
1114	1119	0.000	3.711	0.0013	83.111	0.0114

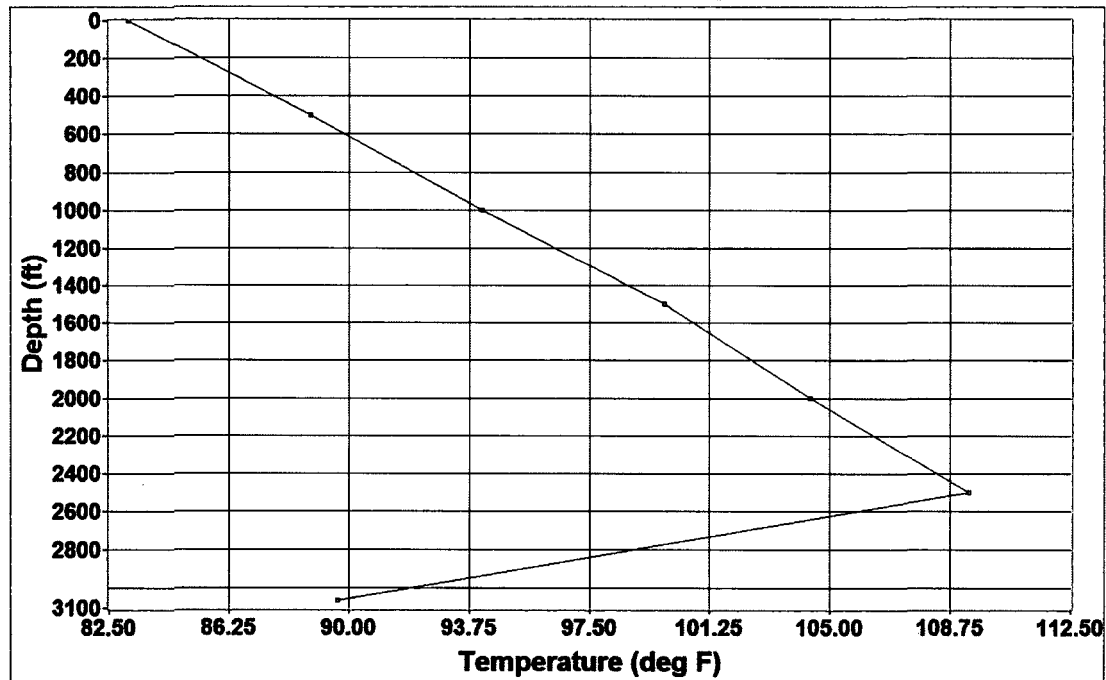
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

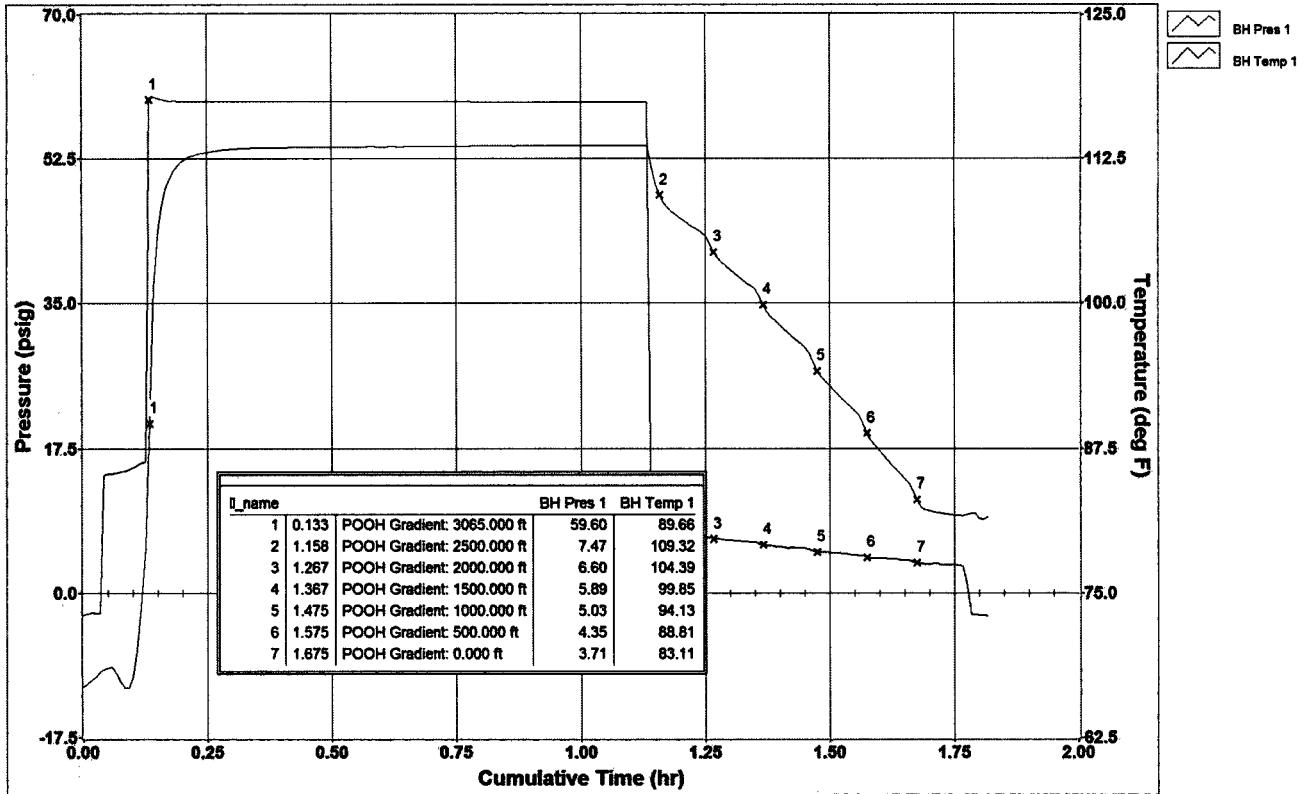
W1036 Depth vs. Pressure



W1036 Depth vs. Temperature



San Juan 30-5 Unit #219



Company Name Hilcorp
Well Name San Juan 30-5 Unit #219
Type of Test POOH Static Gradient
Date(s) of Test 5/24/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	09:34:08	0.0000	-2.686	66.936
2018/05/24	09:34:38	0.0083	-2.495	67.150
2018/05/24	09:35:08	0.0167	-2.363	67.435
2018/05/24	09:35:38	0.0250	-2.431	67.777
2018/05/24	09:36:08	0.0333	-2.434	68.180
2018/05/24	09:36:38	0.0417	14.342	68.412
2018/05/24	09:37:08	0.0500	14.478	68.572
2018/05/24	09:37:38	0.0583	14.466	68.639
2018/05/24	09:38:08	0.0667	14.584	68.101
2018/05/24	09:38:38	0.0750	14.711	67.327
2018/05/24	09:39:08	0.0833	14.824	66.792
2018/05/24	09:39:38	0.0917	14.943	66.803
2018/05/24	09:40:08	0.1000	15.181	67.786
2018/05/24	09:40:38	0.1083	15.438	70.066
2018/05/24	09:41:08	0.1167	15.741	73.803
2018/05/24	09:41:38	0.1250	15.955	78.958
POOH Gradient: 3065.000 ft				
2018/05/24	09:42:08	0.1333	59.597	89.659
2018/05/24	09:42:38	0.1417	59.912	101.388
2018/05/24	09:43:08	0.1500	59.727	105.845
2018/05/24	09:43:38	0.1583	59.586	108.253
2018/05/24	09:44:08	0.1667	59.444	109.803
2018/05/24	09:44:38	0.1750	59.343	110.773
2018/05/24	09:45:08	0.1833	59.363	111.443
2018/05/24	09:45:38	0.1917	59.317	111.895
2018/05/24	09:46:08	0.2000	59.309	112.249
2018/05/24	09:46:38	0.2083	59.295	112.483
2018/05/24	09:47:08	0.2167	59.303	112.647
2018/05/24	09:47:38	0.2250	59.298	112.773
2018/05/24	09:48:08	0.2333	59.315	112.874
2018/05/24	09:48:38	0.2417	59.328	112.964
2018/05/24	09:49:08	0.2500	59.324	113.027
2018/05/24	09:49:38	0.2583	59.321	113.085
2018/05/24	09:50:08	0.2667	59.322	113.130
2018/05/24	09:50:38	0.2750	59.316	113.178
2018/05/24	09:51:08	0.2833	59.316	113.214
2018/05/24	09:51:38	0.2917	59.316	113.239
2018/05/24	09:52:08	0.3000	59.315	113.274
2018/05/24	09:52:38	0.3083	59.313	113.313
2018/05/24	09:53:08	0.3167	59.313	113.338
2018/05/24	09:53:38	0.3250	59.314	113.360
2018/05/24	09:54:08	0.3333	59.315	113.376
2018/05/24	09:54:38	0.3417	59.317	113.391
2018/05/24	09:55:08	0.3500	59.318	113.403
2018/05/24	09:55:38	0.3583	59.320	113.407
2018/05/24	09:56:08	0.3667	59.322	113.418
2018/05/24	09:56:38	0.3750	59.324	113.430
2018/05/24	09:57:08	0.3833	59.320	113.432
2018/05/24	09:57:38	0.3917	59.320	113.434
2018/05/24	09:58:08	0.4000	59.323	113.437
2018/05/24	09:58:38	0.4083	59.320	113.436
2018/05/24	09:59:08	0.4167	59.322	113.446
2018/05/24	09:59:38	0.4250	59.325	113.443
2018/05/24	10:00:08	0.4333	59.327	113.448

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	10:00:38	0.4417	59.330	113.450
2018/05/24	10:01:08	0.4500	59.327	113.448
2018/05/24	10:01:38	0.4583	59.330	113.446
2018/05/24	10:02:08	0.4667	59.326	113.461
2018/05/24	10:02:38	0.4750	59.323	113.464
2018/05/24	10:03:08	0.4833	59.322	113.473
2018/05/24	10:03:38	0.4917	59.324	113.477
2018/05/24	10:04:08	0.5000	59.321	113.484
2018/05/24	10:04:38	0.5083	59.321	113.484
2018/05/24	10:05:08	0.5167	59.323	113.484
2018/05/24	10:05:38	0.5250	59.321	113.482
2018/05/24	10:06:08	0.5333	59.324	113.481
2018/05/24	10:06:38	0.5417	59.320	113.484
2018/05/24	10:07:08	0.5500	59.321	113.481
2018/05/24	10:07:38	0.5583	59.321	113.482
2018/05/24	10:08:08	0.5667	59.317	113.490
2018/05/24	10:08:38	0.5750	59.314	113.497
2018/05/24	10:09:08	0.5833	59.316	113.497
2018/05/24	10:09:38	0.5917	59.314	113.491
2018/05/24	10:10:08	0.6000	59.312	113.484
2018/05/24	10:10:38	0.6083	59.311	113.491
2018/05/24	10:11:08	0.6167	59.308	113.497
2018/05/24	10:11:38	0.6250	59.305	113.500
2018/05/24	10:12:08	0.6333	59.302	113.495
2018/05/24	10:12:38	0.6417	59.302	113.495
2018/05/24	10:13:08	0.6500	59.304	113.504
2018/05/24	10:13:38	0.6583	59.303	113.517
2018/05/24	10:14:08	0.6667	59.302	113.529
2018/05/24	10:14:38	0.6750	59.302	113.526
2018/05/24	10:15:08	0.6833	59.298	113.542
2018/05/24	10:15:38	0.6917	59.295	113.540
2018/05/24	10:16:08	0.7000	59.291	113.547
2018/05/24	10:16:38	0.7083	59.289	113.545
2018/05/24	10:17:08	0.7167	59.285	113.549
2018/05/24	10:17:38	0.7250	59.285	113.551
2018/05/24	10:18:08	0.7333	59.286	113.547
2018/05/24	10:18:38	0.7417	59.286	113.545
2018/05/24	10:19:08	0.7500	59.284	113.538
2018/05/24	10:19:38	0.7583	59.286	113.544
2018/05/24	10:20:08	0.7667	59.284	113.540
2018/05/24	10:20:38	0.7750	59.280	113.549
2018/05/24	10:21:08	0.7833	59.276	113.562
2018/05/24	10:21:38	0.7917	59.272	113.574
2018/05/24	10:22:08	0.8000	59.272	113.569
2018/05/24	10:22:38	0.8083	59.269	113.569
2018/05/24	10:23:08	0.8167	59.267	113.562
2018/05/24	10:23:38	0.8250	59.265	113.560
2018/05/24	10:24:08	0.8333	59.240	113.554
2018/05/24	10:24:38	0.8417	59.240	113.554
2018/05/24	10:25:08	0.8500	59.240	113.554
2018/05/24	10:25:38	0.8583	59.243	113.554
2018/05/24	10:26:08	0.8667	59.246	113.553
2018/05/24	10:26:38	0.8750	59.245	113.563
2018/05/24	10:27:08	0.8833	59.245	113.563

Company Name Hilcorp
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Date(s) of Test 5/24/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	10:27:38	0.8917	59.243	113.554
2018/05/24	10:28:08	0.9000	59.239	113.560
2018/05/24	10:28:38	0.9083	59.239	113.563
2018/05/24	10:29:08	0.9167	59.238	113.569
2018/05/24	10:29:38	0.9250	59.236	113.567
2018/05/24	10:30:08	0.9333	59.233	113.563
2018/05/24	10:30:38	0.9417	59.236	113.565
2018/05/24	10:31:08	0.9500	59.236	113.560
2018/05/24	10:31:38	0.9583	59.234	113.562
2018/05/24	10:32:08	0.9667	59.231	113.562
2018/05/24	10:32:38	0.9750	59.227	113.565
2018/05/24	10:33:08	0.9833	59.227	113.565
2018/05/24	10:33:38	0.9917	59.228	113.562
2018/05/24	10:34:08	1.0000	59.224	113.571
2018/05/24	10:34:38	1.0083	59.221	113.574
2018/05/24	10:35:08	1.0167	59.218	113.571
2018/05/24	10:35:38	1.0250	59.215	113.574
2018/05/24	10:36:08	1.0333	59.218	113.572
2018/05/24	10:36:38	1.0417	59.221	113.572
2018/05/24	10:37:08	1.0500	59.221	113.574
2018/05/24	10:37:38	1.0583	59.218	113.571
2018/05/24	10:38:08	1.0667	59.216	113.569
2018/05/24	10:38:38	1.0750	59.216	113.571
2018/05/24	10:39:08	1.0833	59.219	113.567
2018/05/24	10:39:38	1.0917	59.216	113.569
2018/05/24	10:40:08	1.1000	59.216	113.572
2018/05/24	10:40:38	1.1083	59.215	113.574
2018/05/24	10:41:08	1.1167	59.211	113.589
2018/05/24	10:41:38	1.1250	59.208	113.585
2018/05/24	10:42:08	1.1333	59.205	113.587
2018/05/24	10:42:38	1.1417	7.857	111.931
2018/05/24	10:43:08	1.1500	7.618	110.197
POOH Gradient: 2500.000 ft				
2018/05/24	10:43:38	1.1583	7.474	109.315
2018/05/24	10:44:08	1.1667	7.411	108.637
2018/05/24	10:44:38	1.1750	7.394	108.221
2018/05/24	10:45:08	1.1833	7.398	107.881
2018/05/24	10:45:38	1.1917	7.358	107.582
2018/05/24	10:46:08	1.2000	7.337	107.310
2018/05/24	10:46:38	1.2083	7.279	107.037
2018/05/24	10:47:08	1.2167	7.233	106.792
2018/05/24	10:47:38	1.2250	7.192	106.554
2018/05/24	10:48:08	1.2333	7.075	106.333
2018/05/24	10:48:38	1.2417	7.042	106.110
2018/05/24	10:49:08	1.2500	6.889	105.780
2018/05/24	10:49:38	1.2583	6.722	105.161
POOH Gradient: 2000.000 ft				
2018/05/24	10:50:08	1.2667	6.597	104.389
2018/05/24	10:50:38	1.2750	6.648	103.896
2018/05/24	10:51:08	1.2833	6.576	103.532
2018/05/24	10:51:38	1.2917	6.477	103.194
2018/05/24	10:52:08	1.3000	6.469	102.875
2018/05/24	10:52:38	1.3083	6.425	102.569
2018/05/24	10:53:08	1.3167	6.368	102.276

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	10:53:38	1.3250	6.301	101.993
2018/05/24	10:54:08	1.3333	6.290	101.725
2018/05/24	10:54:38	1.3417	6.245	101.458
2018/05/24	10:55:08	1.3500	6.229	101.187
2018/05/24	10:55:38	1.3583	6.008	100.620
POOH Gradient: 1500.000 ft				
2018/05/24	10:56:08	1.3667	5.890	99.851
2018/05/24	10:56:38	1.3750	5.837	99.185
2018/05/24	10:57:08	1.3833	5.795	98.793
2018/05/24	10:57:38	1.3917	5.684	98.449
2018/05/24	10:58:08	1.4000	5.665	98.098
2018/05/24	10:58:38	1.4083	5.611	97.761
2018/05/24	10:59:08	1.4167	5.534	97.443
2018/05/24	10:59:38	1.4250	5.583	97.120
2018/05/24	11:00:08	1.4333	5.502	96.809
2018/05/24	11:00:38	1.4417	5.470	96.492
2018/05/24	11:01:08	1.4500	5.465	96.192
2018/05/24	11:01:38	1.4583	5.351	95.761
2018/05/24	11:02:08	1.4667	5.136	94.973
POOH Gradient: 1000.000 ft				
2018/05/24	11:02:38	1.4750	5.030	94.131
2018/05/24	11:03:08	1.4833	5.004	93.652
2018/05/24	11:03:38	1.4917	5.002	93.259
2018/05/24	11:04:08	1.5000	4.965	92.883
2018/05/24	11:04:38	1.5083	4.909	92.520
2018/05/24	11:05:08	1.5167	4.935	92.156
2018/05/24	11:05:38	1.5250	4.836	91.800
2018/05/24	11:06:08	1.5333	4.834	91.445
2018/05/24	11:06:38	1.5417	4.716	91.094
2018/05/24	11:07:08	1.5500	4.701	90.748
2018/05/24	11:07:38	1.5583	4.627	90.385
2018/05/24	11:08:08	1.5667	4.560	89.665
POOH Gradient: 500.000 ft				
2018/05/24	11:08:38	1.5750	4.353	88.810
2018/05/24	11:09:08	1.5833	4.267	88.182
2018/05/24	11:09:38	1.5917	4.299	87.748
2018/05/24	11:10:08	1.6000	4.277	87.328
2018/05/24	11:10:38	1.6083	4.238	86.925
2018/05/24	11:11:08	1.6167	4.181	86.520
2018/05/24	11:11:38	1.6250	4.168	86.115
2018/05/24	11:12:08	1.6333	4.174	85.725
2018/05/24	11:12:38	1.6417	4.054	85.338
2018/05/24	11:13:08	1.6500	4.012	84.942
2018/05/24	11:13:38	1.6583	4.026	84.567
2018/05/24	11:14:08	1.6667	3.855	83.964
POOH Gradient: 0.000 ft				
2018/05/24	11:14:38	1.6750	3.711	83.111
2018/05/24	11:15:08	1.6833	3.633	82.449
2018/05/24	11:15:38	1.6917	3.580	82.269
2018/05/24	11:16:08	1.7000	3.567	82.175
2018/05/24	11:16:38	1.7083	3.582	82.094
2018/05/24	11:17:08	1.7167	3.593	82.027
2018/05/24	11:17:38	1.7250	3.458	81.963
2018/05/24	11:18:08	1.7333	3.468	81.909

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Well Name San Juan 30-5 Unit #219
Type of Test POOH Static Gradient
Date(s) of Test 5/24/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	11:18:38	1.7417	3.479	81.855
2018/05/24	11:19:08	1.7500	3.427	81.808
2018/05/24	11:19:38	1.7583	3.383	81.763
2018/05/24	11:20:08	1.7667	3.288	81.738
2018/05/24	11:20:38	1.7750	1.454	81.851
2018/05/24	11:21:08	1.7833	-2.590	81.977
2018/05/24	11:21:38	1.7917	-2.586	81.946
2018/05/24	11:22:08	1.8000	-2.652	81.489
2018/05/24	11:22:38	1.8083	-2.671	81.441