

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

NMOCD

JUN 05 2019

DISTRICT III

TEST INFORMATION

Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/29/19
Dead-weight Gauge Tubing Pressure	190
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/29/19 @0940
Date / Time off Bottom	5/29/19 @1040

Probe Serial Number	W1162
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3000

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	203.6 psig
Maximum Recorded Probe Temperature	107.8 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 30-5 UNIT #213 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/29/19



PROBE INFORMATION

Probe Serial Number W1162
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

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COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC

RIH WITH 1.50 IMPRESSION BLOCK AND TAGGED FILL @3207 WLM. RIH WITH BHP GAUGE TO 3000 FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

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Pressure vs. Depth

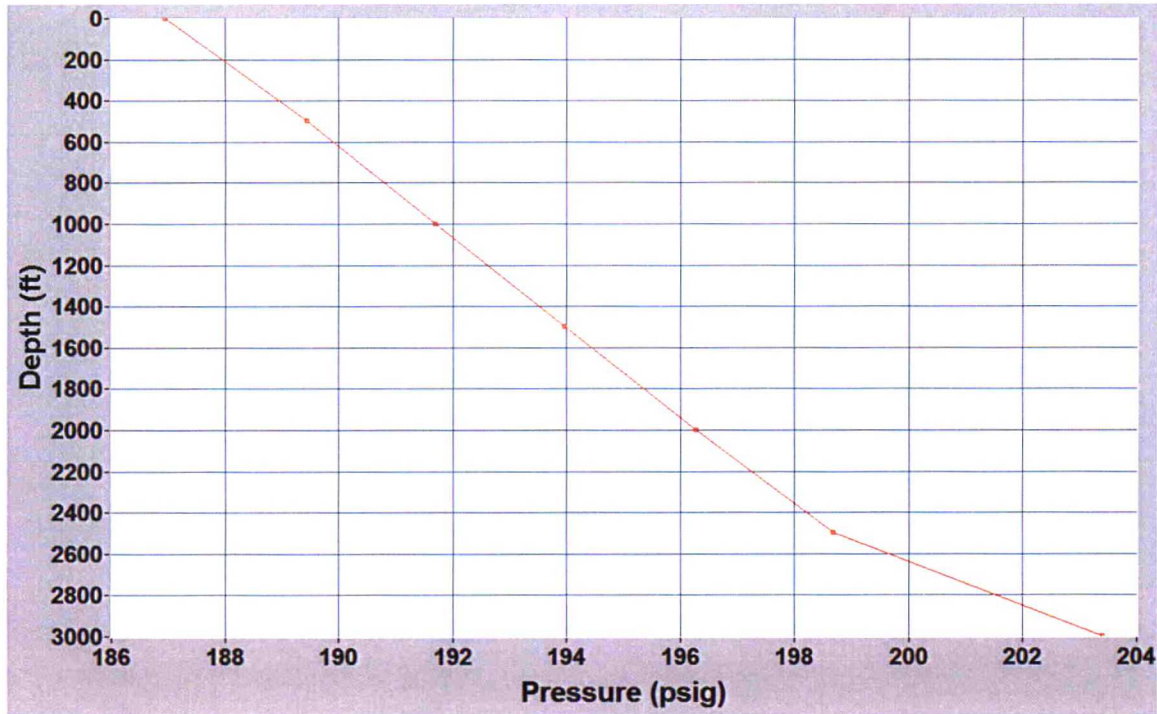
Probe Serial Number W1162

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0940	1040	3000.000	203.397	-	95.468	-
1042	1047	2500.000	198.680	0.0094	105.602	-0.0203
1048	1053	2000.000	196.282	0.0048	99.590	0.0120
1054	1059	1500.000	193.965	0.0046	92.210	0.0148
1100	1105	1000.000	191.691	0.0045	84.182	0.0161
1106	1111	500.000	189.448	0.0045	74.300	0.0198
1113	1118	0.000	186.951	0.0050	66.290	0.0160

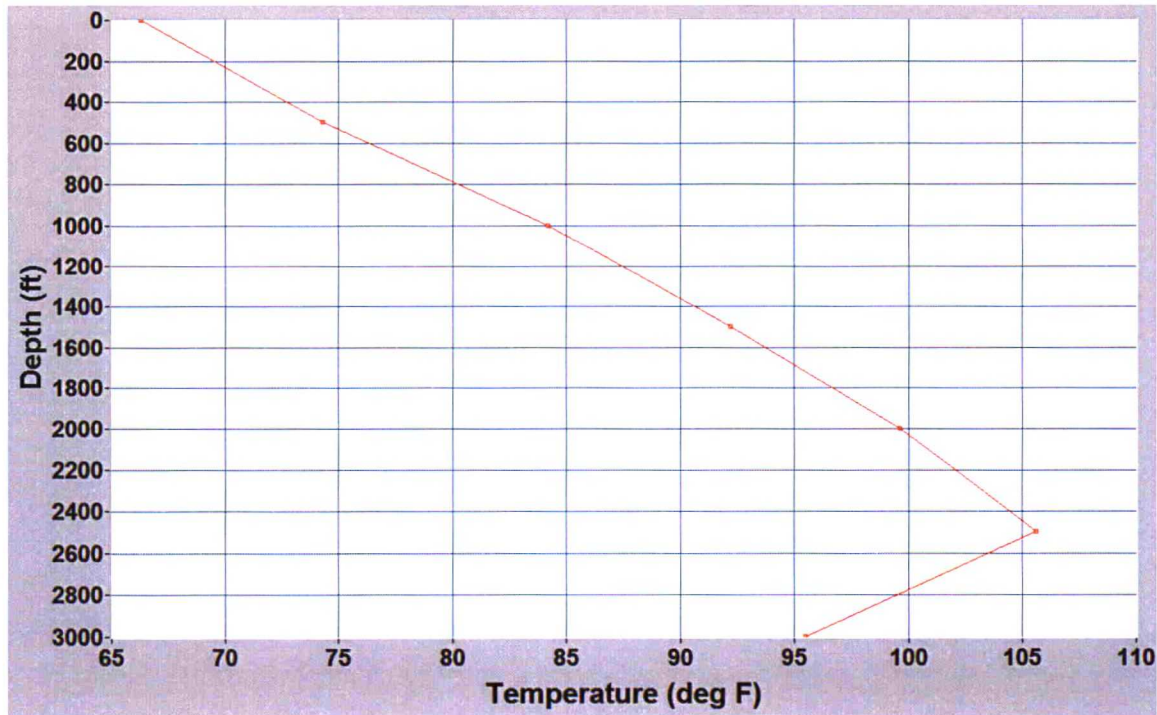
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

W1162 Depth vs. Pressure



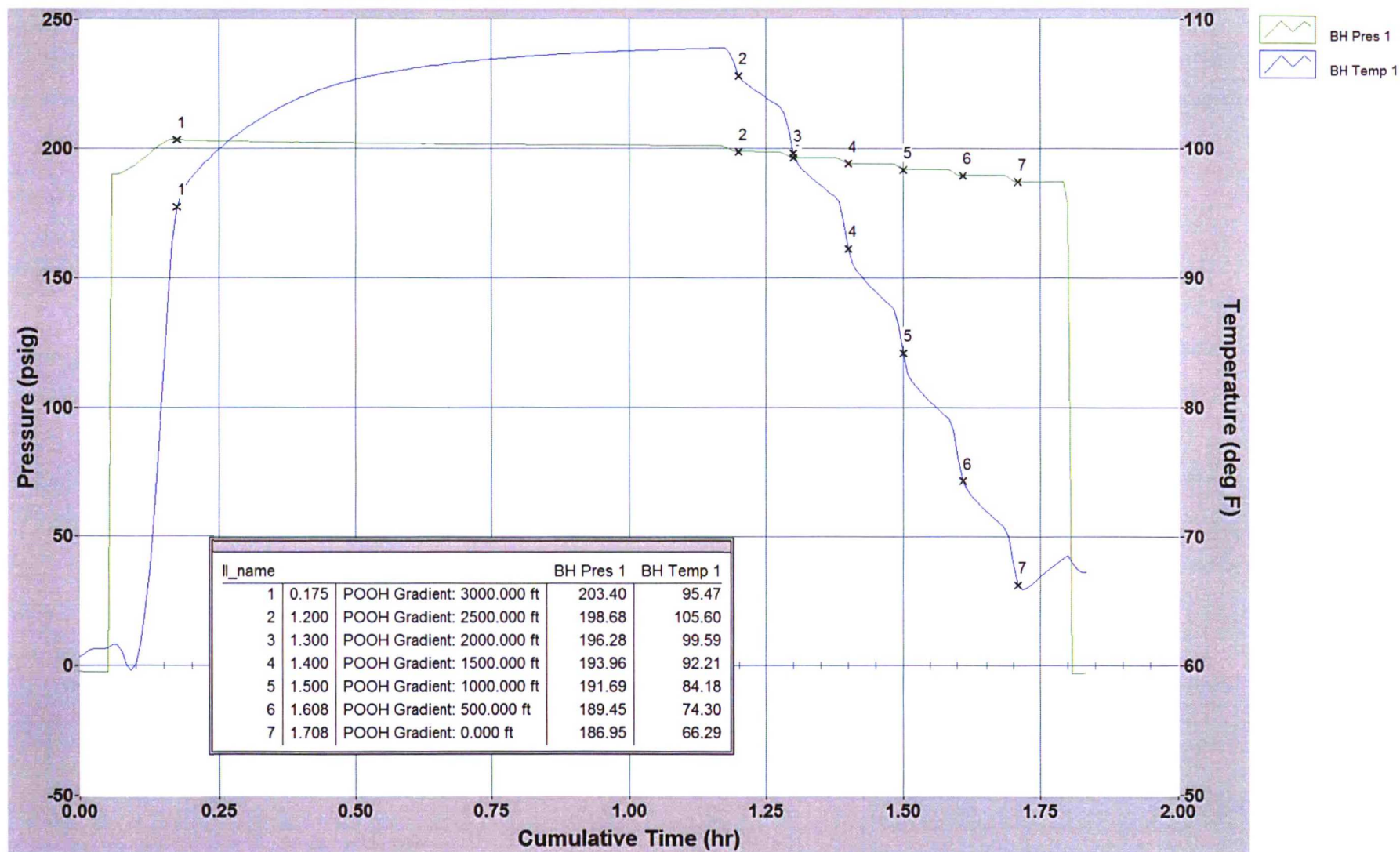
W1162 Depth vs. Temperature



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SAN JUAN 30-5 UNIT #213 POW



Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #213 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/29/19



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/29	09:30:16	0.0000	-2.300	60.674
2019/05/29	09:30:45	0.0081	-2.351	60.890
2019/05/29	09:31:45	0.0247	-2.444	61.304
2019/05/29	09:32:15	0.0331	-2.499	61.286
2019/05/29	09:33:15	0.0497	-2.503	61.358
2019/05/29	09:33:45	0.0581	189.898	61.628
2019/05/29	09:34:45	0.0747	190.382	61.088
2019/05/29	09:35:45	0.0914	192.290	59.594
2019/05/29	09:36:45	0.1081	194.836	61.682
2019/05/29	09:37:15	0.1164	196.281	64.202
2019/05/29	09:38:15	0.1331	199.308	71.978
2019/05/29	09:39:15	0.1497	201.930	82.310
2019/05/29	09:40:15	0.1664	203.649	92.678
POOH Gradient: 3000.000 ft				
2019/05/29	09:40:45	0.1747	203.397	95.468
2019/05/29	09:41:45	0.1914	203.105	97.160
2019/05/29	09:42:45	0.2081	202.977	98.096
2019/05/29	09:43:45	0.2247	202.950	98.870
2019/05/29	09:44:15	0.2331	202.864	99.230
2019/05/29	09:45:15	0.2497	202.860	99.896
2019/05/29	09:46:15	0.2664	202.766	100.526
2019/05/29	09:47:15	0.2831	202.693	101.066
2019/05/29	09:47:45	0.2914	202.663	101.354
2019/05/29	09:48:45	0.3081	202.589	101.840
2019/05/29	09:49:45	0.3247	202.547	102.308
2019/05/29	09:50:45	0.3414	202.474	102.722
2019/05/29	09:51:15	0.3497	202.439	102.920
2019/05/29	09:52:15	0.3664	202.400	103.298
2019/05/29	09:53:15	0.3831	202.325	103.640
2019/05/29	09:54:15	0.3997	202.273	103.946
2019/05/29	09:54:45	0.4081	202.281	104.090
2019/05/29	09:55:45	0.4247	202.236	104.360
2019/05/29	09:56:45	0.4414	202.203	104.630
2019/05/29	09:57:45	0.4581	202.158	104.846
2019/05/29	09:58:15	0.4664	202.120	104.954
2019/05/29	09:59:15	0.4831	202.097	105.152
2019/05/29	10:00:15	0.4997	202.026	105.332
2019/05/29	10:01:15	0.5164	201.998	105.512
2019/05/29	10:01:45	0.5247	202.003	105.584
2019/05/29	10:02:45	0.5414	201.939	105.728
2019/05/29	10:03:45	0.5581	201.943	105.854
2019/05/29	10:04:45	0.5747	201.884	105.998
2019/05/29	10:05:15	0.5831	201.894	106.052
2019/05/29	10:06:15	0.5997	201.845	106.160
2019/05/29	10:07:15	0.6164	201.782	106.268
2019/05/29	10:08:15	0.6331	201.790	106.376
2019/05/29	10:08:45	0.6414	201.785	106.412
2019/05/29	10:09:45	0.6581	201.734	106.502
2019/05/29	10:10:45	0.6747	201.684	106.592
2019/05/29	10:11:45	0.6914	201.685	106.664
2019/05/29	10:12:15	0.6997	201.636	106.718
2019/05/29	10:13:15	0.7164	201.640	106.772
2019/05/29	10:14:15	0.7331	201.626	106.844
2019/05/29	10:15:15	0.7497	201.587	106.916

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/29	10:15:45	0.7581	201.588	106.952
2019/05/29	10:16:45	0.7747	201.530	107.006
2019/05/29	10:17:45	0.7914	201.531	107.060
2019/05/29	10:18:45	0.8081	201.499	107.114
2019/05/29	10:19:15	0.8164	201.473	107.132
2019/05/29	10:20:15	0.8331	201.447	107.186
2019/05/29	10:21:15	0.8497	201.465	107.222
2019/05/29	10:22:15	0.8664	201.434	107.276
2019/05/29	10:22:45	0.8747	201.436	107.294
2019/05/29	10:23:45	0.8914	201.365	107.330
2019/05/29	10:24:45	0.9081	201.379	107.384
2019/05/29	10:25:45	0.9247	201.385	107.402
2019/05/29	10:26:15	0.9331	201.347	107.438
2019/05/29	10:27:15	0.9497	201.339	107.456
2019/05/29	10:27:45	0.9581	201.323	107.474
2019/05/29	10:28:45	0.9747	201.307	107.510
2019/05/29	10:29:15	0.9831	201.294	107.528
2019/05/29	10:30:15	0.9997	201.260	107.546
2019/05/29	10:31:15	1.0164	201.256	107.582
2019/05/29	10:32:15	1.0331	201.238	107.600
2019/05/29	10:32:45	1.0414	201.209	107.618
2019/05/29	10:33:45	1.0581	201.186	107.636
2019/05/29	10:34:45	1.0747	201.180	107.636
2019/05/29	10:35:45	1.0914	201.146	107.672
2019/05/29	10:36:15	1.0997	201.153	107.672
2019/05/29	10:37:15	1.1164	201.146	107.708
2019/05/29	10:38:15	1.1331	201.102	107.708
2019/05/29	10:39:15	1.1497	201.088	107.744
2019/05/29	10:39:45	1.1581	201.095	107.744
2019/05/29	10:40:45	1.1747	200.597	107.744
2019/05/29	10:41:45	1.1914	198.800	106.574
POOH Gradient: 2500.000 ft				
2019/05/29	10:42:15	1.1997	198.680	105.602
2019/05/29	10:42:45	1.2081	198.741	105.206
2019/05/29	10:43:15	1.2164	198.709	104.900
2019/05/29	10:44:15	1.2331	198.687	104.414
2019/05/29	10:45:15	1.2497	198.694	103.910
2019/05/29	10:46:15	1.2664	198.693	103.478
2019/05/29	10:46:45	1.2747	198.674	103.244
2019/05/29	10:47:45	1.2914	196.850	101.372
POOH Gradient: 2000.000 ft				
2019/05/29	10:48:15	1.2997	196.282	99.590
2019/05/29	10:48:45	1.3081	196.374	98.834
2019/05/29	10:49:45	1.3247	196.406	98.042
2019/05/29	10:50:15	1.3331	196.419	97.718
2019/05/29	10:51:15	1.3497	196.400	97.124
2019/05/29	10:52:15	1.3664	196.371	96.548
2019/05/29	10:53:15	1.3831	195.949	95.936
2019/05/29	10:53:45	1.3914	194.812	94.424
POOH Gradient: 1500.000 ft				
2019/05/29	10:54:15	1.3997	193.965	92.210
2019/05/29	10:54:45	1.4081	194.052	91.058
2019/05/29	10:55:45	1.4247	194.113	90.068
2019/05/29	10:56:45	1.4414	194.140	89.276

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		hr	psig	deg F
2019/05/29	10:57:15	1.4497	194.130	88.916
2019/05/29	10:58:15	1.4664	194.142	88.232
2019/05/29	10:59:15	1.4831	194.004	87.566
POOH Gradient: 1000.000 ft				
2019/05/29	11:00:15	1.4997	191.691	84.182
2019/05/29	11:00:45	1.5081	191.740	82.562
2019/05/29	11:01:45	1.5247	191.825	81.518
2019/05/29	11:02:45	1.5414	191.839	80.744
2019/05/29	11:03:45	1.5581	191.834	80.060
2019/05/29	11:04:15	1.5664	191.815	79.736
2019/05/29	11:05:15	1.5831	191.827	79.124
2019/05/29	11:06:15	1.5997	189.557	76.136
POOH Gradient: 500.000 ft				
2019/05/29	11:06:45	1.6081	189.448	74.300
2019/05/29	11:07:15	1.6164	189.486	73.634
2019/05/29	11:07:45	1.6247	189.519	73.166
2019/05/29	11:08:45	1.6414	189.556	72.392
2019/05/29	11:09:45	1.6581	189.511	71.708
2019/05/29	11:10:45	1.6747	189.553	71.060
2019/05/29	11:11:15	1.6831	189.532	70.754
2019/05/29	11:12:15	1.6997	187.479	68.126
POOH Gradient: 0.000 ft				
2019/05/29	11:12:45	1.7081	186.951	66.290
2019/05/29	11:13:15	1.7164	187.080	65.930
2019/05/29	11:14:15	1.7331	187.148	66.344
2019/05/29	11:14:45	1.7414	187.149	66.632
2019/05/29	11:15:45	1.7581	187.144	67.244
2019/05/29	11:16:45	1.7747	187.142	67.802
2019/05/29	11:17:45	1.7914	187.097	68.324
2019/05/29	11:18:15	1.7997	178.086	68.576
2019/05/29	11:19:15	1.8164	-2.931	67.496