

Pressure Test Report

COMPANY INFORMATION

Company Name
Representative
Phone
Fax
Address

HILCORP
PRISCILLA SHORTY

WMOCD

MAY 31 2019

DISTRICT III

E-Mail Address
Service Company

EXPERT DOWNHOLE SERVICES, INC.

WELL INFORMATION

Well Name
Well Location
Field and Pool
Status (Oil, Gas, Water, Injection)
Perforated Intervals
Mid-point of Perforated Intervals (MPP)
Drilling Rig Number
Elevations
 Kelly Bushing (KB)
 Casing Flange (CF)
 KB-CF
 Ground Level
Plug Back Total Depth
Total Depth
Production Casing
Production Tubing

SAN JUAN 30-5 UNIT #216
T30N, R5W, SEC 20
BASIN FRUITLAND COAL
OBSERVATION
2984-3114

13

6275
3124
3124
7 TO 2962
2 3/8 TO 2969

TEST INFORMATION

Type of Test
Date(s) of Test
Dead-weight Gauge Tubing Pressure
Dead-weight Gauge Casing Pressure
Shut-in Date (Duration)
Date / Time on Bottom
Date / Time off Bottom

Probe Serial Number
Probe Offset from End of Tool String
Run Depth at Probe Pressure Port

POOH STATIC GRADIENT
5/28/19
45

5/28/19 @1223
5/28/19 @1323

W1032
0-6000
3004

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure
Maximum Recorded Probe Temperature
Final Buildup Pressure
Gradient Survey Information
 Extrapolated Pressure to MPP
 Final Gradient at Depth
Job Number

47.1 psig
109.0 deg F

Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/28/19



PROBE INFORMATION

Probe Serial Number W1032
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 #216
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/28/19



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK AND TAGGED FILL @3007 WLM. RIH WITH BHP GAUGE TO 3004 FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
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Pressure vs. Depth

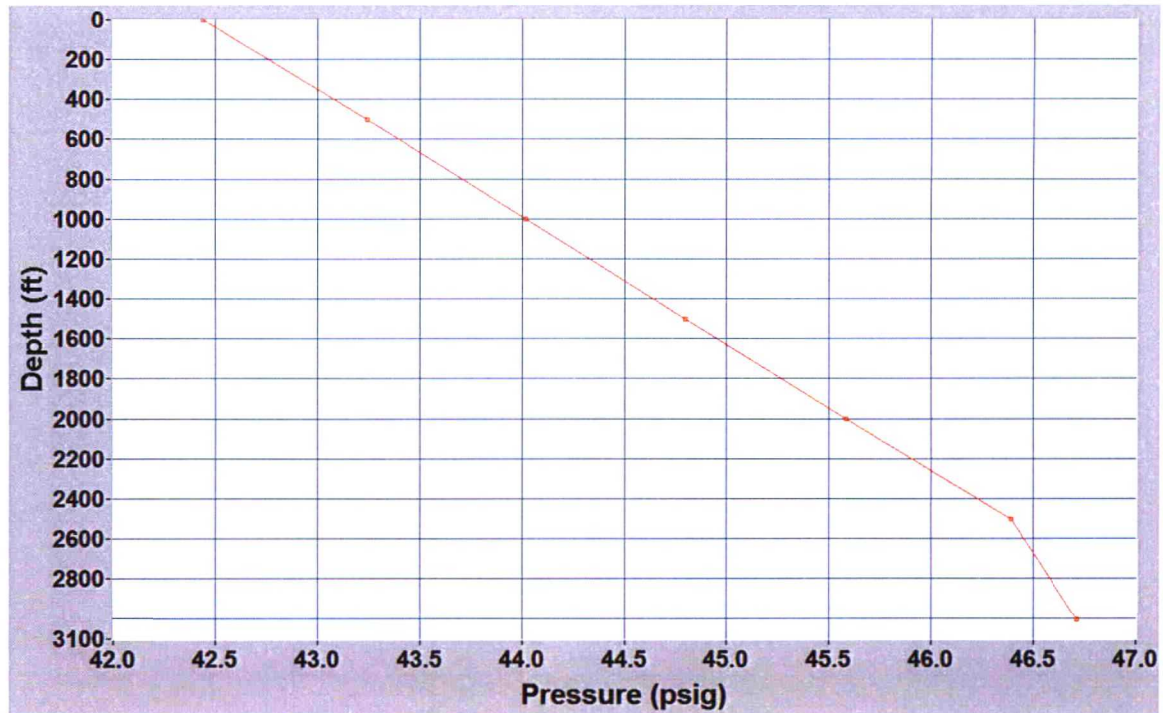
Probe Serial Number W1032

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1223	1323	3004.000	46.712	-	88.772	-
1324	1329	2500.000	46.390	0.0006	107.870	-0.0379
1330	1335	2000.000	45.584	0.0016	102.722	0.0103
1336	1341	1500.000	44.801	0.0016	96.620	0.0122
1342	1347	1000.000	44.019	0.0016	90.104	0.0130
1348	1353	500.000	43.244	0.0015	83.048	0.0141
1355	1400	0.000	42.441	0.0016	75.452	0.0152

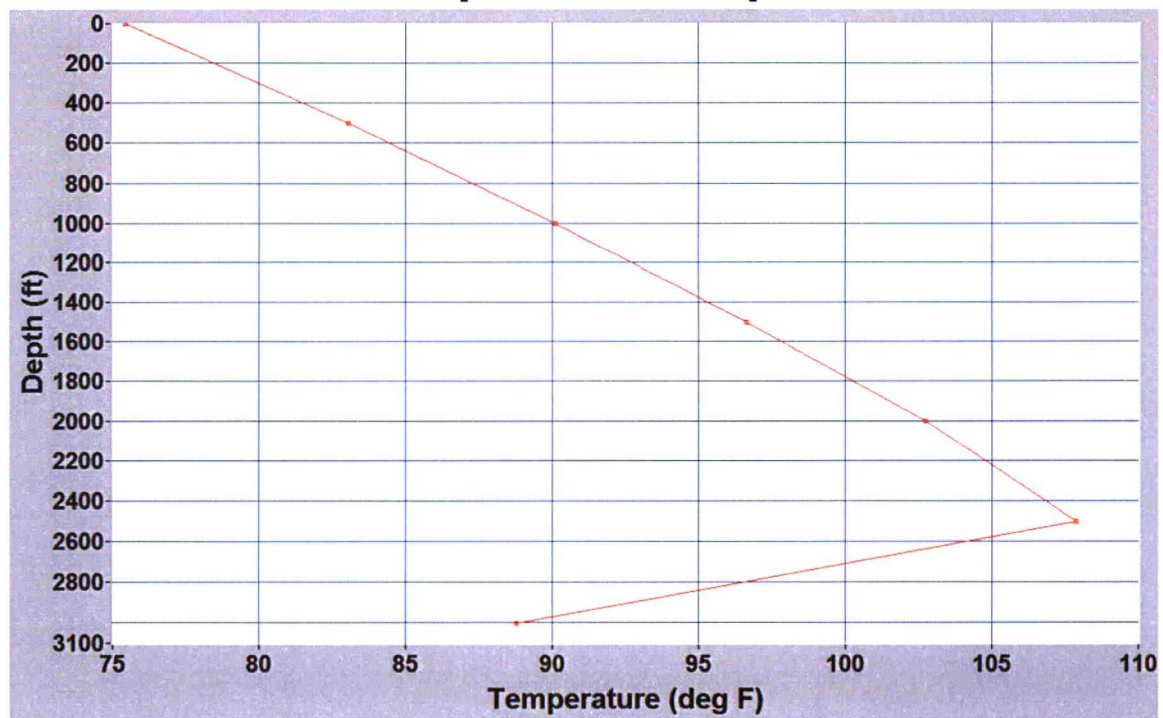
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

W1032 Depth vs. Pressure



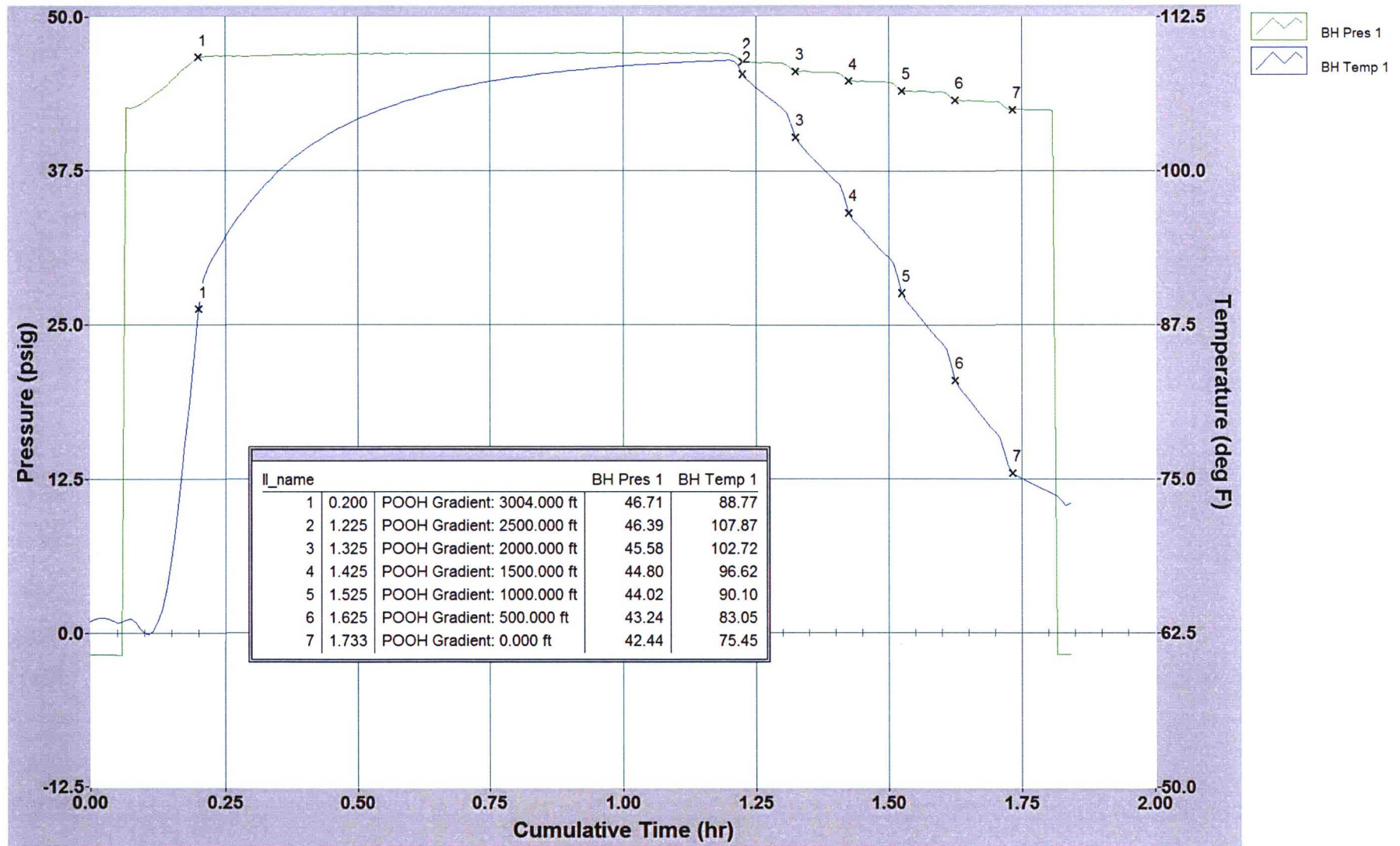
W1032 Depth vs. Temperature



Company Name HILCORP
 Well Name SAN JUAN 30-5 UNIT #216
 Type of Test POOH STATIC GRADIENT
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San Juan 30-5 Unit #216 POW



Company Name HILCORP
Well Name SAN JUAN 30-5 UNIT #216
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/28/19



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/28	12:11:29	0.0000	-1.797	63.464
2019/05/28	12:11:58	0.0081	-1.767	63.608
2019/05/28	12:12:58	0.0247	-1.777	63.734
2019/05/28	12:13:28	0.0331	-1.790	63.662
2019/05/28	12:14:28	0.0497	-1.814	63.356
2019/05/28	12:14:58	0.0581	-1.813	63.392
2019/05/28	12:15:58	0.0747	42.534	63.698
2019/05/28	12:16:58	0.0914	42.835	62.870
2019/05/28	12:17:58	0.1081	43.314	62.420
2019/05/28	12:18:28	0.1164	43.591	62.708
2019/05/28	12:19:28	0.1331	44.091	64.562
2019/05/28	12:20:28	0.1497	44.788	68.522
2019/05/28	12:21:28	0.1664	45.497	74.354
2019/05/28	12:21:58	0.1747	45.806	77.864
2019/05/28	12:22:58	0.1914	46.425	85.046
POOH Gradient: 3004.000 ft				
2019/05/28	12:23:28	0.1997	46.712	88.772
2019/05/28	12:23:58	0.2081	46.765	91.058
2019/05/28	12:24:58	0.2247	46.820	92.786
2019/05/28	12:25:28	0.2331	46.849	93.434
2019/05/28	12:26:28	0.2497	46.828	94.640
2019/05/28	12:27:28	0.2664	46.823	95.702
2019/05/28	12:28:28	0.2831	46.815	96.710
2019/05/28	12:28:58	0.2914	46.820	97.178
2019/05/28	12:29:58	0.3081	46.856	98.060
2019/05/28	12:30:58	0.3247	46.881	98.870
2019/05/28	12:31:58	0.3414	46.897	99.608
2019/05/28	12:32:28	0.3497	46.885	99.950
2019/05/28	12:33:28	0.3664	46.901	100.580
2019/05/28	12:34:28	0.3831	46.956	101.192
2019/05/28	12:35:28	0.3997	46.953	101.714
2019/05/28	12:35:58	0.4081	46.920	101.966
2019/05/28	12:36:58	0.4247	46.966	102.434
2019/05/28	12:37:58	0.4414	46.957	102.884
2019/05/28	12:38:58	0.4581	46.944	103.280
2019/05/28	12:39:28	0.4664	46.969	103.478
2019/05/28	12:40:28	0.4831	47.010	103.820
2019/05/28	12:41:28	0.4997	46.986	104.162
2019/05/28	12:42:28	0.5164	47.010	104.486
2019/05/28	12:42:58	0.5247	46.985	104.630
2019/05/28	12:43:58	0.5414	47.007	104.900
2019/05/28	12:44:58	0.5581	46.995	105.170
2019/05/28	12:45:58	0.5747	47.021	105.422
2019/05/28	12:46:28	0.5831	47.037	105.548
2019/05/28	12:47:28	0.5997	47.013	105.764
2019/05/28	12:48:28	0.6164	47.007	105.980
2019/05/28	12:49:28	0.6331	47.026	106.178
2019/05/28	12:49:58	0.6414	47.028	106.268
2019/05/28	12:50:58	0.6581	47.039	106.448
2019/05/28	12:51:58	0.6747	47.040	106.610
2019/05/28	12:52:58	0.6914	47.042	106.772
2019/05/28	12:53:28	0.6997	47.036	106.826
2019/05/28	12:54:28	0.7164	47.007	106.988
2019/05/28	12:55:28	0.7331	47.024	107.114

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/28	12:56:28	0.7497	47.042	107.240
2019/05/28	12:56:58	0.7581	47.043	107.312
2019/05/28	12:57:58	0.7747	47.046	107.420
2019/05/28	12:58:58	0.7914	47.044	107.528
2019/05/28	12:59:58	0.8081	47.010	107.636
2019/05/28	13:00:28	0.8164	47.023	107.690
2019/05/28	13:01:28	0.8331	47.030	107.780
2019/05/28	13:02:28	0.8497	47.043	107.870
2019/05/28	13:03:28	0.8664	47.044	107.960
2019/05/28	13:03:58	0.8747	47.060	107.996
2019/05/28	13:04:58	0.8914	47.008	108.068
2019/05/28	13:05:58	0.9081	47.052	108.140
2019/05/28	13:06:58	0.9247	47.068	108.212
2019/05/28	13:07:28	0.9331	47.017	108.248
2019/05/28	13:08:28	0.9497	47.040	108.320
2019/05/28	13:09:28	0.9664	47.047	108.374
2019/05/28	13:10:28	0.9831	47.063	108.428
2019/05/28	13:10:58	0.9914	47.073	108.464
2019/05/28	13:11:58	1.0081	47.043	108.518
2019/05/28	13:12:58	1.0247	47.059	108.572
2019/05/28	13:13:58	1.0414	47.037	108.608
2019/05/28	13:14:28	1.0497	47.040	108.644
2019/05/28	13:15:28	1.0664	47.057	108.680
2019/05/28	13:16:28	1.0831	47.040	108.734
2019/05/28	13:17:28	1.0997	47.073	108.770
2019/05/28	13:17:58	1.1081	47.033	108.788
2019/05/28	13:18:58	1.1247	47.053	108.824
2019/05/28	13:19:58	1.1414	47.026	108.878
2019/05/28	13:20:58	1.1581	47.046	108.896
2019/05/28	13:21:28	1.1664	47.079	108.914
2019/05/28	13:22:28	1.1831	47.062	108.950
2019/05/28	13:23:28	1.1997	47.036	108.986
2019/05/28	13:24:28	1.2164	46.659	108.626
POOH Gradient: 2500.000 ft				
2019/05/28	13:24:58	1.2247	46.390	107.870
2019/05/28	13:25:58	1.2414	46.324	107.114
2019/05/28	13:26:58	1.2581	46.293	106.502
2019/05/28	13:27:58	1.2747	46.303	105.926
2019/05/28	13:28:28	1.2831	46.277	105.656
2019/05/28	13:29:28	1.2997	46.296	105.116
2019/05/28	13:30:28	1.3164	45.803	103.766
POOH Gradient: 2000.000 ft				
2019/05/28	13:30:58	1.3247	45.584	102.722
2019/05/28	13:31:28	1.3331	45.569	102.200
2019/05/28	13:31:58	1.3414	45.606	101.804
2019/05/28	13:32:58	1.3581	45.533	100.994
2019/05/28	13:33:58	1.3747	45.507	100.256
2019/05/28	13:34:58	1.3914	45.498	99.572
2019/05/28	13:35:28	1.3997	45.490	99.248
2019/05/28	13:36:28	1.4164	45.123	97.880
POOH Gradient: 1500.000 ft				
2019/05/28	13:36:58	1.4247	44.801	96.620
2019/05/28	13:37:28	1.4331	44.821	96.044
2019/05/28	13:38:28	1.4497	44.796	95.252

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Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/28/19



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/28	13:38:58	1.4581	44.767	94.856
2019/05/28	13:39:58	1.4747	44.731	94.082
2019/05/28	13:40:58	1.4914	44.756	93.326
2019/05/28	13:41:58	1.5081	44.647	92.570
2019/05/28	13:42:28	1.5164	44.299	91.472
POOH Gradient: 1000.000 ft				
2019/05/28	13:42:58	1.5247	44.019	90.104
2019/05/28	13:43:28	1.5331	43.997	89.510
2019/05/28	13:44:28	1.5497	43.967	88.610
2019/05/28	13:45:28	1.5664	43.974	87.728
2019/05/28	13:45:58	1.5747	43.944	87.278
2019/05/28	13:46:58	1.5914	43.949	86.450
2019/05/28	13:47:58	1.6081	43.836	85.568
POOH Gradient: 500.000 ft				
2019/05/28	13:48:58	1.6247	43.244	83.048
2019/05/28	13:49:28	1.6331	43.236	82.418
2019/05/28	13:50:28	1.6497	43.217	81.500
2019/05/28	13:51:28	1.6664	43.185	80.600
2019/05/28	13:52:28	1.6831	43.128	79.700
2019/05/28	13:52:58	1.6914	43.136	79.268
2019/05/28	13:53:58	1.7081	43.060	78.386
2019/05/28	13:54:58	1.7247	42.482	76.046
POOH Gradient: 0.000 ft				
2019/05/28	13:55:28	1.7331	42.441	75.452
2019/05/28	13:55:58	1.7414	42.464	75.218
2019/05/28	13:56:28	1.7497	42.458	75.020
2019/05/28	13:57:28	1.7664	42.405	74.642
2019/05/28	13:58:28	1.7831	42.439	74.282
2019/05/28	13:59:28	1.7997	42.441	73.940
2019/05/28	13:59:58	1.8081	42.392	73.778
2019/05/28	14:00:58	1.8247	-1.729	73.238