

SAN JUAN 31-6 UNIT 205 POW *bl*
30-039-24486

Pressure Test Report

COMPANY INFORMATION

Company Name
Representative
Phone
Fax
Address

HILCORP
PRISCILLA SHORTY

NMOC D

MAY 22 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 31-6 UNIT 205 POW
T31N, R6W, SEC 4
BASIN FRUITLAND COAL
OBSERVATION
2148-3208

13

6441
3282
3282
5 1/2 TO 3282
2 3/8 TO 3198

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

POOH STATIC GRADIENT
5/16/19
80

05/16/19 @1253
05/16/19 @1353

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

W1032
0-6000
3260

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

99.9 psig
113.9 deg F

tb

Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT 205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/16/19



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 31-6 UNIT 205 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/16/19



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK AND TAGGED FILL @3264 WLM. RIH WITH BHP GAUGE TO 3260 WLM FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
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Pressure vs. Depth

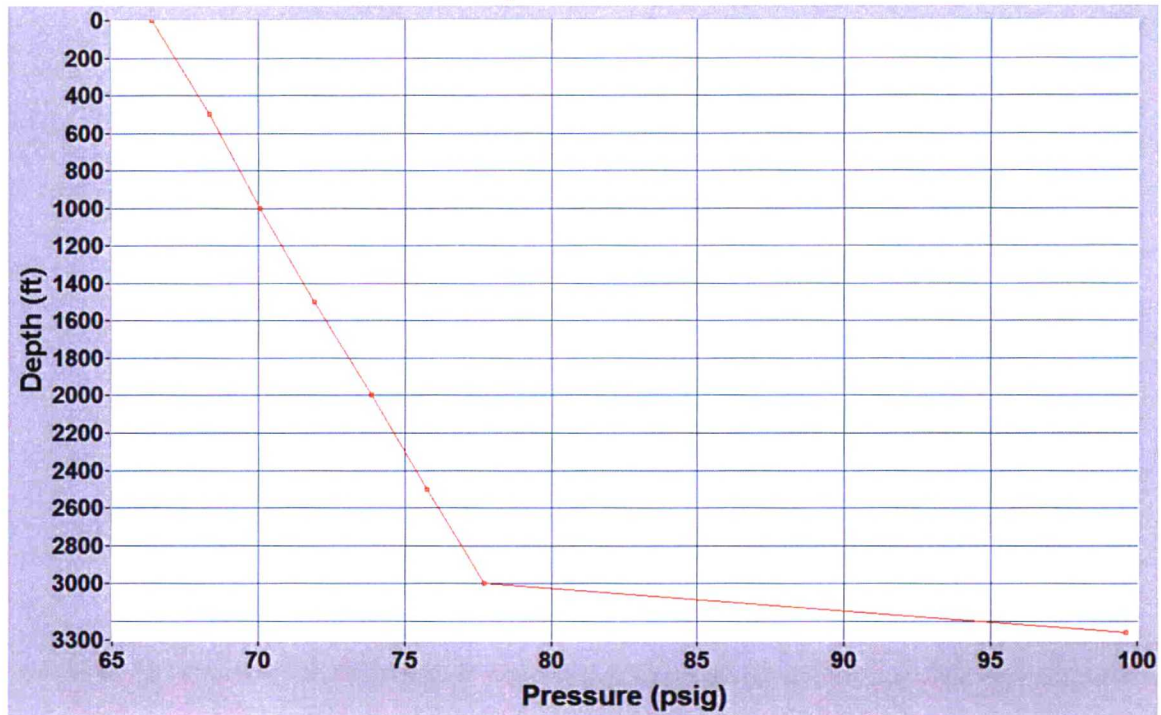
Probe Serial Number W1032

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1253	1353	3260.000	99.612	-	99.356	-
1355	1400	3000.000	77.713	0.0842	112.694	-0.0513
1401	1406	2500.000	75.752	0.0039	107.888	0.0096
1408	1413	2000.000	73.875	0.0038	102.200	0.0114
1414	1419	1500.000	71.939	0.0039	94.208	0.0160
1420	1425	1000.000	70.065	0.0037	86.792	0.0148
1426	1431	500.000	68.349	0.0034	79.448	0.0147
1433	1438	0.000	66.391	0.0039	71.276	0.0163

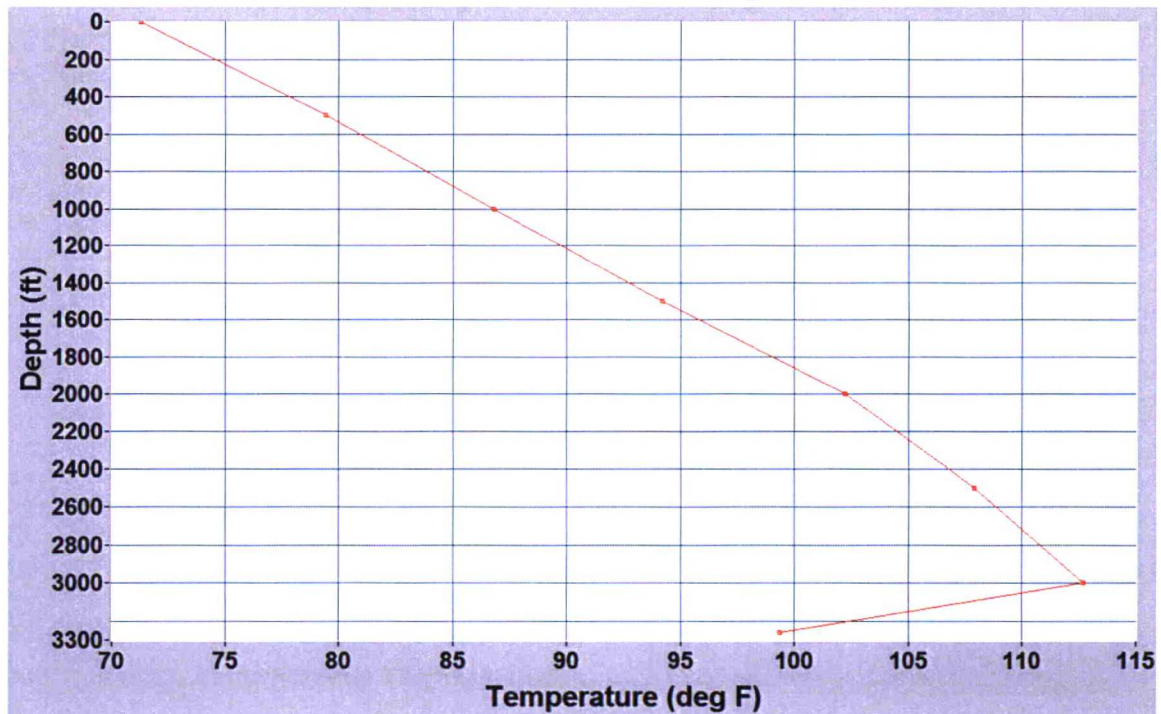
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

W1032 Depth vs. Pressure



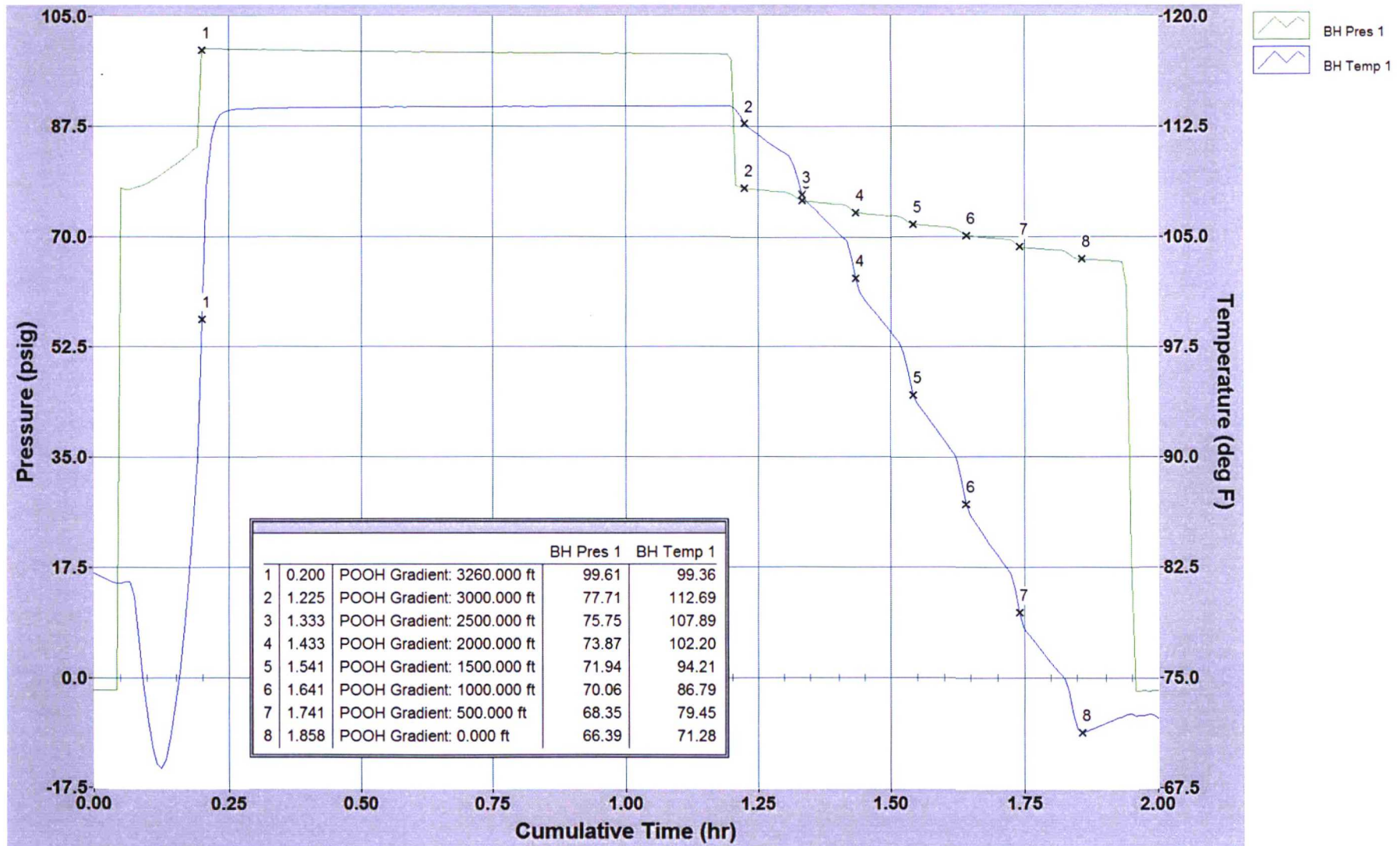
W1032 Depth vs. Temperature



Company Name HILCORP
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SAN JUAN 31-6 UNIT #205 POW



Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT 205 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/16/19



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/16	12:41:50	0.0000	-1.925	82.148
2019/05/16	12:42:19	0.0081	-1.942	81.986
2019/05/16	12:43:19	0.0247	-1.955	81.698
2019/05/16	12:44:19	0.0414	-1.958	81.446
2019/05/16	12:45:19	0.0581	77.543	81.536
2019/05/16	12:46:19	0.0747	77.679	80.492
2019/05/16	12:47:19	0.0914	78.188	74.642
2019/05/16	12:48:19	0.1081	78.969	70.250
2019/05/16	12:49:19	0.1247	79.909	68.810
2019/05/16	12:49:49	0.1331	80.393	69.422
2019/05/16	12:50:49	0.1497	81.400	72.878
2019/05/16	12:51:49	0.1664	82.521	78.260
2019/05/16	12:52:49	0.1831	83.742	85.604
POOH Gradient: 3260.000 ft				
2019/05/16	12:53:49	0.1997	99.612	99.356
2019/05/16	12:54:49	0.2164	99.890	111.578
2019/05/16	12:55:49	0.2331	99.845	113.288
2019/05/16	12:56:49	0.2497	99.792	113.576
2019/05/16	12:57:19	0.2581	99.787	113.630
2019/05/16	12:58:19	0.2747	99.737	113.684
2019/05/16	12:59:19	0.2914	99.721	113.702
2019/05/16	13:00:19	0.3081	99.687	113.738
2019/05/16	13:01:19	0.3247	99.686	113.738
2019/05/16	13:02:19	0.3414	99.671	113.756
2019/05/16	13:03:19	0.3581	99.634	113.756
2019/05/16	13:04:19	0.3747	99.619	113.774
2019/05/16	13:04:49	0.3831	99.625	113.774
2019/05/16	13:05:49	0.3997	99.554	113.792
2019/05/16	13:06:49	0.4164	99.539	113.792
2019/05/16	13:07:49	0.4331	99.496	113.792
2019/05/16	13:08:49	0.4497	99.481	113.792
2019/05/16	13:09:49	0.4664	99.439	113.810
2019/05/16	13:10:49	0.4831	99.422	113.792
2019/05/16	13:11:49	0.4997	99.442	113.810
2019/05/16	13:12:19	0.5081	99.438	113.810
2019/05/16	13:13:19	0.5247	99.435	113.810
2019/05/16	13:14:19	0.5414	99.403	113.828
2019/05/16	13:15:19	0.5581	99.358	113.810
2019/05/16	13:16:19	0.5747	99.380	113.828
2019/05/16	13:17:19	0.5914	99.354	113.828
2019/05/16	13:18:19	0.6081	99.339	113.828
2019/05/16	13:19:19	0.6247	99.312	113.828
2019/05/16	13:19:49	0.6331	99.325	113.828
2019/05/16	13:20:49	0.6497	99.313	113.828
2019/05/16	13:21:49	0.6664	99.287	113.828
2019/05/16	13:22:49	0.6831	99.312	113.846
2019/05/16	13:23:49	0.6997	99.297	113.846
2019/05/16	13:24:49	0.7164	99.270	113.846
2019/05/16	13:25:49	0.7331	99.268	113.846
2019/05/16	13:26:49	0.7497	99.274	113.846
2019/05/16	13:27:19	0.7581	99.228	113.846
2019/05/16	13:28:19	0.7747	99.226	113.864
2019/05/16	13:29:19	0.7914	99.217	113.864
2019/05/16	13:30:19	0.8081	99.190	113.846

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/16	13:31:19	0.8247	99.165	113.864
2019/05/16	13:32:19	0.8414	99.158	113.846
2019/05/16	13:33:19	0.8581	99.190	113.864
2019/05/16	13:34:19	0.8747	99.145	113.864
2019/05/16	13:35:19	0.8914	99.154	113.864
2019/05/16	13:36:19	0.9081	99.167	113.864
2019/05/16	13:37:19	0.9247	99.158	113.864
2019/05/16	13:38:19	0.9414	99.125	113.864
2019/05/16	13:39:19	0.9581	99.103	113.864
2019/05/16	13:40:19	0.9747	99.104	113.882
2019/05/16	13:41:19	0.9914	99.096	113.882
2019/05/16	13:42:19	1.0081	99.125	113.882
2019/05/16	13:42:49	1.0164	99.080	113.864
2019/05/16	13:43:49	1.0331	99.074	113.882
2019/05/16	13:44:49	1.0497	99.109	113.864
2019/05/16	13:45:49	1.0664	99.103	113.882
2019/05/16	13:46:49	1.0831	99.064	113.882
2019/05/16	13:47:49	1.0997	99.078	113.882
2019/05/16	13:48:49	1.1164	99.059	113.882
2019/05/16	13:49:49	1.1331	99.072	113.882
2019/05/16	13:50:19	1.1414	99.072	113.900
2019/05/16	13:51:19	1.1581	99.023	113.882
2019/05/16	13:52:19	1.1747	99.020	113.882
2019/05/16	13:53:19	1.1914	99.001	113.882
2019/05/16	13:54:19	1.2081	78.200	113.648
POOH Gradient: 3000.000 ft				
2019/05/16	13:55:19	1.2247	77.713	112.694
2019/05/16	13:56:19	1.2414	77.591	112.172
2019/05/16	13:57:19	1.2581	77.430	111.722
2019/05/16	13:57:49	1.2664	77.367	111.506
2019/05/16	13:58:49	1.2831	77.234	111.092
2019/05/16	13:59:49	1.2997	77.104	110.714
2019/05/16	14:00:49	1.3164	76.535	109.922
POOH Gradient: 2500.000 ft				
2019/05/16	14:01:49	1.3331	75.752	107.888
2019/05/16	14:02:49	1.3497	75.618	107.114
2019/05/16	14:03:49	1.3664	75.488	106.520
2019/05/16	14:04:49	1.3831	75.333	105.908
2019/05/16	14:05:19	1.3914	75.251	105.620
2019/05/16	14:06:19	1.4081	75.188	105.044
2019/05/16	14:07:19	1.4247	74.454	103.640
POOH Gradient: 2000.000 ft				
2019/05/16	14:07:49	1.4331	73.875	102.200
2019/05/16	14:08:19	1.4414	73.810	101.210
2019/05/16	14:09:19	1.4581	73.646	100.400
2019/05/16	14:10:19	1.4747	73.540	99.662
2019/05/16	14:11:19	1.4914	73.407	98.888
2019/05/16	14:12:19	1.5081	73.296	98.150
2019/05/16	14:12:49	1.5164	73.195	97.790
2019/05/16	14:13:49	1.5331	72.291	95.648
POOH Gradient: 1500.000 ft				
2019/05/16	14:14:19	1.5414	71.939	94.208
2019/05/16	14:14:49	1.5497	71.876	93.650
2019/05/16	14:15:49	1.5664	71.740	92.822

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/16	14:16:49	1.5831	71.614	91.958
2019/05/16	14:17:49	1.5997	71.501	91.130
2019/05/16	14:18:49	1.6164	71.369	90.320
2019/05/16	14:19:49	1.6331	70.593	88.466
POOH Gradient: 1000.000 ft				
2019/05/16	14:20:19	1.6414	70.065	86.792
2019/05/16	14:21:19	1.6581	69.962	85.532
2019/05/16	14:22:19	1.6747	69.840	84.650
2019/05/16	14:23:19	1.6914	69.705	83.786
2019/05/16	14:24:19	1.7081	69.595	82.922
2019/05/16	14:25:19	1.7247	69.448	82.094
POOH Gradient: 500.000 ft				
2019/05/16	14:26:19	1.7414	68.349	79.448
2019/05/16	14:27:19	1.7581	68.166	77.936
2019/05/16	14:27:49	1.7664	68.105	77.558
2019/05/16	14:28:49	1.7831	67.995	76.802
2019/05/16	14:29:49	1.7997	67.879	76.028
2019/05/16	14:30:49	1.8164	67.765	75.290
2019/05/16	14:31:49	1.8331	67.203	74.066
2019/05/16	14:32:49	1.8497	66.466	71.528
POOH Gradient: 0.000 ft				
2019/05/16	14:33:19	1.8581	66.391	71.276
2019/05/16	14:33:49	1.8664	66.353	71.384
2019/05/16	14:34:49	1.8831	66.265	71.618
2019/05/16	14:35:49	1.8997	66.173	71.870
2019/05/16	14:36:49	1.9164	66.088	72.104
2019/05/16	14:37:49	1.9331	65.994	72.356
2019/05/16	14:38:49	1.9497	19.178	72.518
2019/05/16	14:39:49	1.9664	-2.070	72.446
2019/05/16	14:40:49	1.9831	-2.032	72.536