

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 31-6 UNIT 225 POW
Well Location	T31N, R6W, SEC 31
Field and Pool	BASIN FRUITLAND COAL
Status (Oil, Gas, Water, Injection)	OBSERVATION
Perforated Intervals	2957-3007
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13
Casing Flange (CF)	
KB-CF	
Ground Level	6207
Plug Back Total Depth	3053
Total Depth	3053
Production Casing	5 1/2 TO 3052
Production Tubing	2 3/8 TO 2926

TEST INFORMATION

Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/16/19
Dead-weight Gauge Tubing Pressure	80
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	05/16/19 @0941
Date / Time off Bottom	05/16/19 @1043
Probe Serial Number	W1162
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3021

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	115.1 psig
Maximum Recorded Probe Temperature	113.2 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

NMOCB

MAY 22 2019

DISTRICT III

Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT 225 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/16/19



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

Company Name	HILCORP
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COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK AND TAGGED FILL @3025 WLM. RIH WITH BHP GAUGE TO 3021 FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
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Pressure vs. Depth

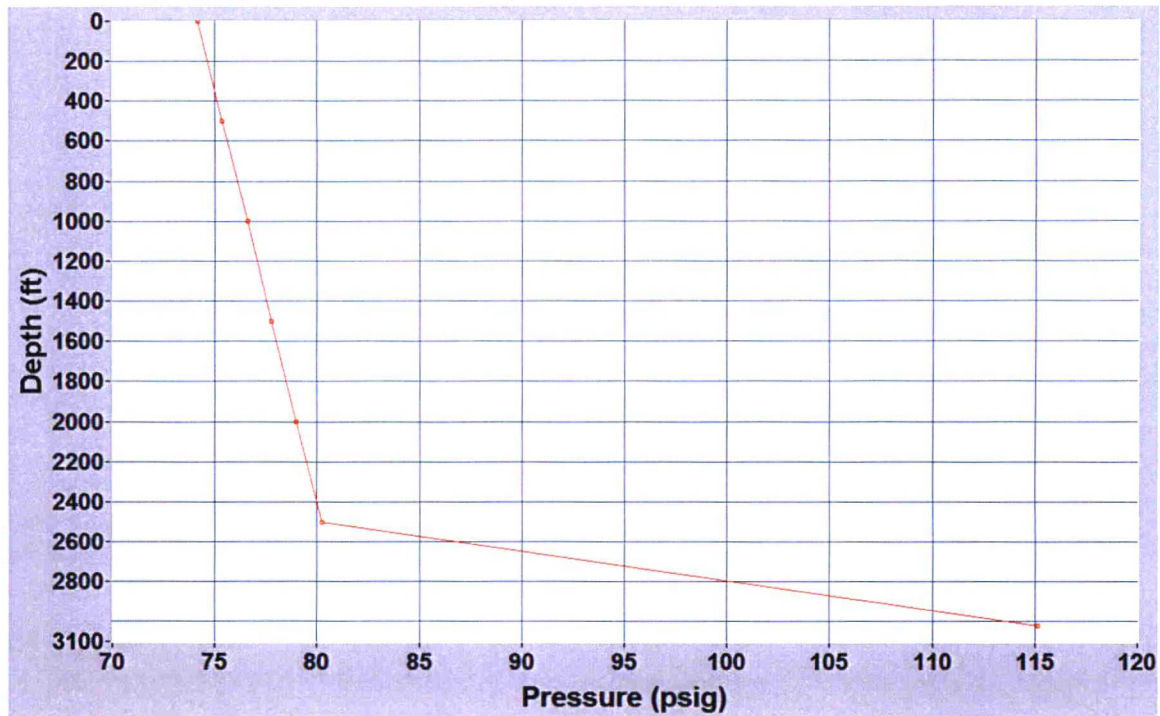
Probe Serial Number W1162

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0941	1041	3021.000	115.143	-	97.538	-
1043	1048	2500.000	80.262	0.0669	110.678	-0.0252
1049	1054	2000.000	78.980	0.0026	105.008	0.0113
1055	1100	1500.000	77.769	0.0024	97.034	0.0159
1101	1106	1000.000	76.592	0.0024	88.952	0.0162
1107	1112	500.000	75.356	0.0025	80.744	0.0164
1114	1119	0.000	74.197	0.0023	72.698	0.0161

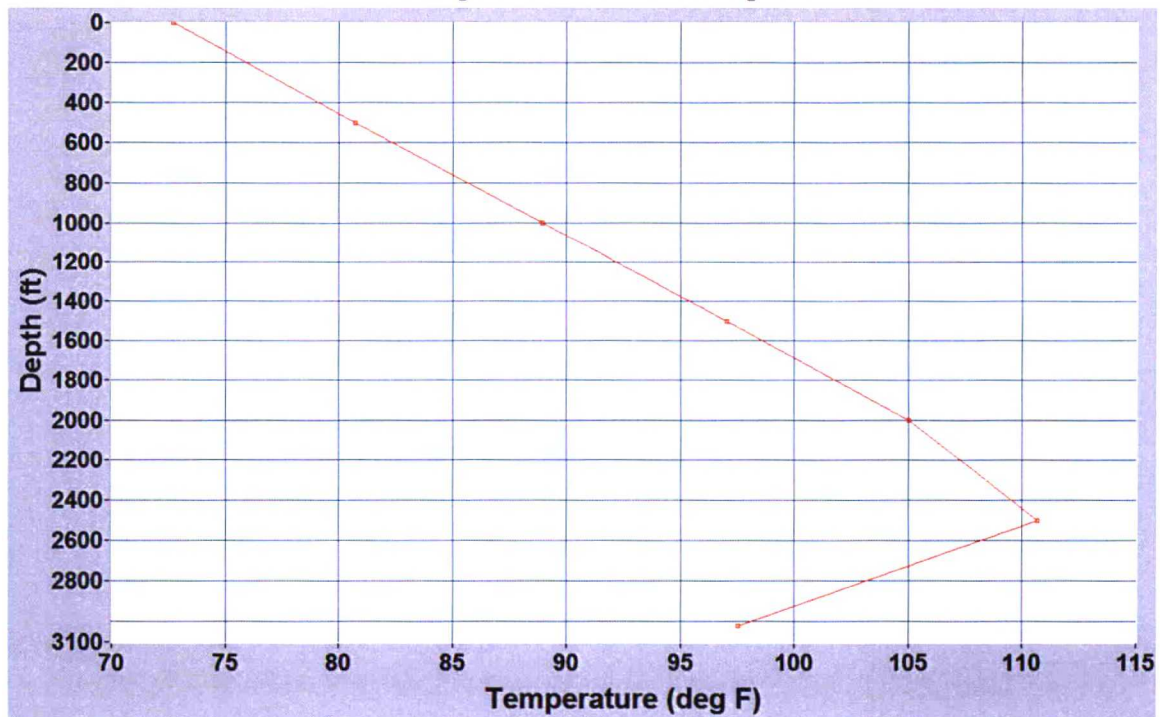
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

W1162 Depth vs. Pressure



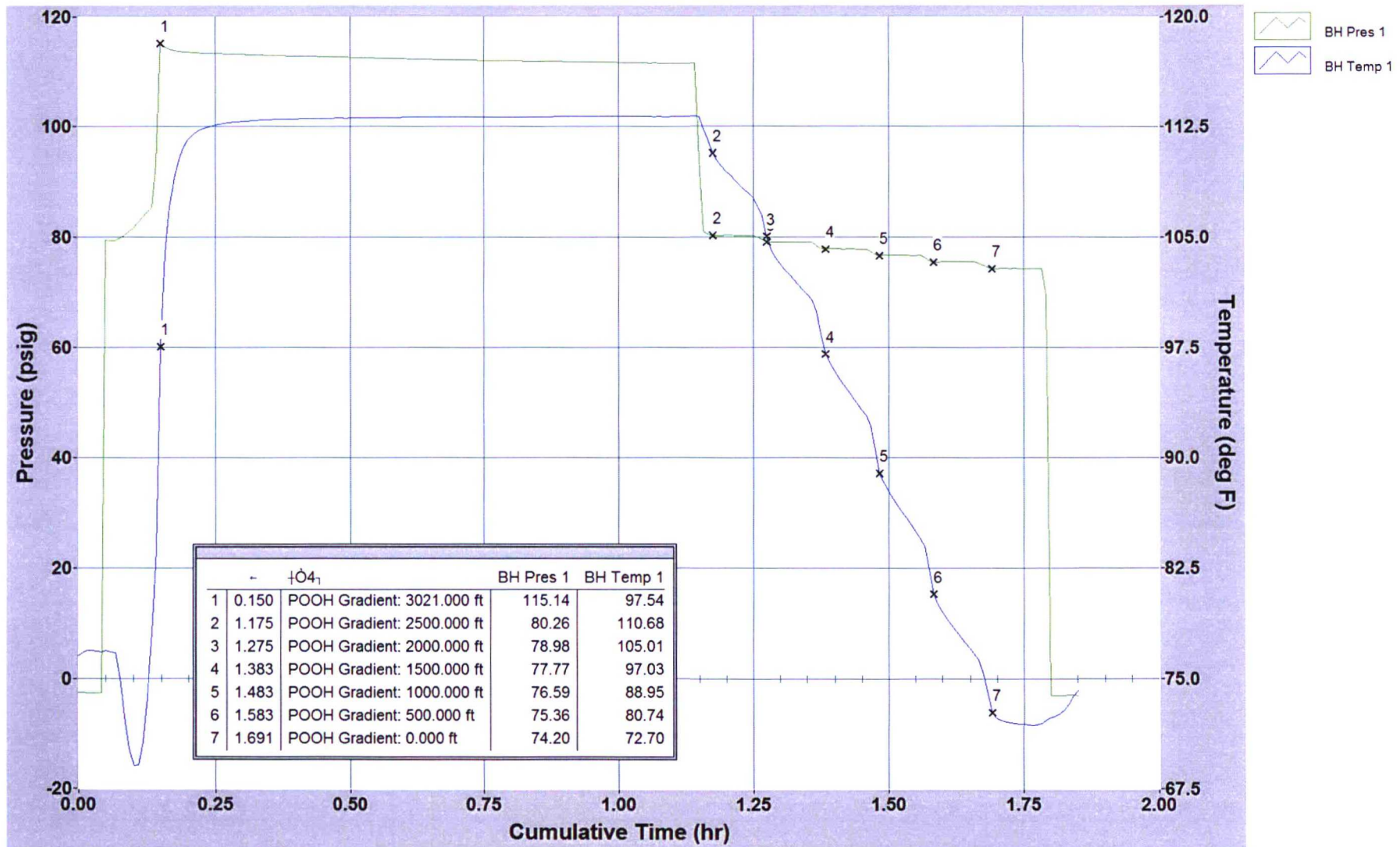
W1162 Depth vs. Temperature



Company Name HILCORP
 Well Name SAN JUAN 31-6 UNIT 225 POW
 Type of Test POOH STATIC GRADIENT
 Date(s) of Test 5/16/19



SAN JUAN 31-6 UNIT #225 POW



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/16	09:32:49	0.0000	-2.461	76.532
2019/05/16	09:33:18	0.0081	-2.561	76.766
2019/05/16	09:34:18	0.0247	-2.647	76.910
2019/05/16	09:34:48	0.0331	-2.669	76.856
2019/05/16	09:35:48	0.0497	79.436	76.874
2019/05/16	09:36:18	0.0581	79.308	76.820
2019/05/16	09:37:18	0.0747	79.717	75.056
2019/05/16	09:38:18	0.0914	80.909	70.250
2019/05/16	09:39:18	0.1081	82.563	69.116
2019/05/16	09:39:48	0.1164	83.433	70.700
2019/05/16	09:40:48	0.1331	85.291	78.134
POOH Gradient: 3021.000 ft				
2019/05/16	09:41:48	0.1497	115.143	97.538
2019/05/16	09:42:48	0.1664	114.107	107.024
2019/05/16	09:43:18	0.1747	113.855	109.004
2019/05/16	09:44:18	0.1914	113.656	111.038
2019/05/16	09:45:18	0.2081	113.492	111.920
2019/05/16	09:46:18	0.2247	113.408	112.316
2019/05/16	09:46:48	0.2331	113.389	112.424
2019/05/16	09:47:48	0.2497	113.332	112.604
2019/05/16	09:48:48	0.2664	113.250	112.712
2019/05/16	09:49:48	0.2831	113.199	112.784
2019/05/16	09:50:18	0.2914	113.153	112.820
2019/05/16	09:51:18	0.3081	113.131	112.874
2019/05/16	09:52:18	0.3247	113.073	112.910
2019/05/16	09:53:18	0.3414	112.987	112.946
2019/05/16	09:53:48	0.3497	113.000	112.964
2019/05/16	09:54:48	0.3664	112.950	112.982
2019/05/16	09:55:48	0.3831	112.889	113.000
2019/05/16	09:56:48	0.3997	112.855	113.018
2019/05/16	09:57:18	0.4081	112.850	113.036
2019/05/16	09:58:18	0.4247	112.791	113.036
2019/05/16	09:59:18	0.4414	112.744	113.036
2019/05/16	10:00:18	0.4581	112.683	113.054
2019/05/16	10:00:48	0.4664	112.686	113.072
2019/05/16	10:01:48	0.4831	112.632	113.090
2019/05/16	10:02:48	0.4997	112.617	113.090
2019/05/16	10:03:48	0.5164	112.572	113.090
2019/05/16	10:04:18	0.5247	112.562	113.090
2019/05/16	10:05:18	0.5414	112.503	113.090
2019/05/16	10:06:18	0.5581	112.478	113.108
2019/05/16	10:07:18	0.5747	112.432	113.108
2019/05/16	10:07:48	0.5831	112.409	113.108
2019/05/16	10:08:48	0.5997	112.374	113.126
2019/05/16	10:09:48	0.6164	112.323	113.126
2019/05/16	10:10:48	0.6331	112.271	113.126
2019/05/16	10:11:18	0.6414	112.294	113.126
2019/05/16	10:12:18	0.6581	112.236	113.144
2019/05/16	10:13:18	0.6747	112.200	113.144
2019/05/16	10:14:18	0.6914	112.200	113.144
2019/05/16	10:14:48	0.6997	112.169	113.144
2019/05/16	10:15:48	0.7164	112.146	113.144
2019/05/16	10:16:48	0.7331	112.117	113.144
2019/05/16	10:17:48	0.7497	112.079	113.162

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/16	10:18:18	0.7581	112.074	113.144
2019/05/16	10:19:18	0.7747	112.042	113.144
2019/05/16	10:20:18	0.7914	112.010	113.144
2019/05/16	10:21:18	0.8081	111.995	113.162
2019/05/16	10:21:48	0.8164	111.979	113.144
2019/05/16	10:22:48	0.8331	111.937	113.162
2019/05/16	10:23:48	0.8497	111.904	113.162
2019/05/16	10:24:48	0.8664	111.873	113.162
2019/05/16	10:25:18	0.8747	111.862	113.162
2019/05/16	10:26:18	0.8914	111.850	113.180
2019/05/16	10:27:18	0.9081	111.811	113.180
2019/05/16	10:28:18	0.9247	111.783	113.198
2019/05/16	10:28:48	0.9331	111.795	113.180
2019/05/16	10:29:48	0.9497	111.775	113.180
2019/05/16	10:30:18	0.9581	111.740	113.180
2019/05/16	10:31:18	0.9747	111.721	113.180
2019/05/16	10:31:48	0.9831	111.727	113.180
2019/05/16	10:32:48	0.9997	111.685	113.198
2019/05/16	10:33:48	1.0164	111.662	113.198
2019/05/16	10:34:48	1.0331	111.640	113.180
2019/05/16	10:35:18	1.0414	111.624	113.180
2019/05/16	10:36:18	1.0581	111.576	113.180
2019/05/16	10:37:18	1.0747	111.578	113.180
2019/05/16	10:38:18	1.0914	111.567	113.162
2019/05/16	10:38:48	1.0997	111.541	113.180
2019/05/16	10:39:48	1.1164	111.540	113.180
2019/05/16	10:40:48	1.1331	111.528	113.180
2019/05/16	10:41:48	1.1497	93.996	113.126
2019/05/16	10:42:18	1.1581	81.033	112.334
POOH Gradient: 2500.000 ft				
2019/05/16	10:43:18	1.1747	80.262	110.678
2019/05/16	10:44:18	1.1914	80.251	109.778
2019/05/16	10:45:18	1.2081	80.280	109.130
2019/05/16	10:45:48	1.2164	80.264	108.806
2019/05/16	10:46:48	1.2331	80.232	108.194
2019/05/16	10:47:48	1.2497	80.202	107.618
POOH Gradient: 2000.000 ft				
2019/05/16	10:49:18	1.2747	78.980	105.008
2019/05/16	10:49:48	1.2831	78.993	104.054
2019/05/16	10:50:48	1.2997	78.999	103.172
2019/05/16	10:51:48	1.3164	79.024	102.434
2019/05/16	10:52:48	1.3331	78.988	101.732
2019/05/16	10:53:18	1.3414	78.967	101.390
2019/05/16	10:54:18	1.3581	78.973	100.724
2019/05/16	10:55:18	1.3747	77.885	98.420
POOH Gradient: 1500.000 ft				
2019/05/16	10:55:48	1.3831	77.769	97.034
2019/05/16	10:56:18	1.3914	77.837	96.404
2019/05/16	10:56:48	1.3997	77.829	95.918
2019/05/16	10:57:48	1.4164	77.791	95.000
2019/05/16	10:58:48	1.4331	77.817	94.118
2019/05/16	10:59:48	1.4497	77.778	93.290
2019/05/16	11:00:18	1.4581	77.782	92.876
2019/05/16	11:01:18	1.4747	76.792	90.590

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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
POOH Gradient: 1000.000 ft				
2019/05/16	11:01:48	1.4831	76.592	88.952
2019/05/16	11:02:18	1.4914	76.645	88.232
2019/05/16	11:03:18	1.5081	76.667	87.224
2019/05/16	11:03:48	1.5164	76.671	86.774
2019/05/16	11:04:48	1.5331	76.663	85.874
2019/05/16	11:05:48	1.5497	76.596	84.992
2019/05/16	11:06:48	1.5664	76.281	84.002
2019/05/16	11:07:18	1.5747	75.653	82.436
POOH Gradient: 500.000 ft				
2019/05/16	11:07:48	1.5831	75.356	80.744
2019/05/16	11:08:18	1.5914	75.438	80.006
2019/05/16	11:09:18	1.6081	75.465	79.070
2019/05/16	11:10:18	1.6247	75.476	78.242
2019/05/16	11:10:48	1.6331	75.444	77.846
2019/05/16	11:11:48	1.6497	75.478	77.072
2019/05/16	11:12:48	1.6664	75.301	76.298
2019/05/16	11:13:48	1.6831	74.475	73.940
POOH Gradient: 0.000 ft				
2019/05/16	11:14:18	1.6914	74.197	72.698
2019/05/16	11:15:18	1.7081	74.301	72.158
2019/05/16	11:16:18	1.7247	74.262	72.014
2019/05/16	11:17:18	1.7414	74.243	71.924
2019/05/16	11:17:48	1.7497	74.230	71.888
2019/05/16	11:18:48	1.7664	74.211	71.816
2019/05/16	11:20:18	1.7914	69.285	72.212
2019/05/16	11:21:18	1.8081	-2.973	72.446
2019/05/16	11:21:48	1.8164	-3.010	72.626
2019/05/16	11:22:48	1.8331	-2.947	73.274