

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 #219 POW
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	5/28/19
Dead-weight Gauge Tubing Pressure	10
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/28/19 @0937
Date / Time off Bottom	5/28/19 @1037
Probe Serial Number	1162
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3065

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	57.6 psig
Maximum Recorded Probe Temperature	113.3 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

NMOCD

MAY 31 2019

DISTRICT III

Company Name HILCORP
Well Name SAN JUAN 30-5 #219 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/28/19



PROBE INFORMATION

Probe Serial Number 1162
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 #219 POW
Type of Test	POOH STATIC GRADIENT
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COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK AND TAGGED FILL @3069 WLM. RIH WITH BHP GAUGE TO 3065 WLM FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
 Well Name SAN JUAN 30-5 #219 POW
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Pressure vs. Depth

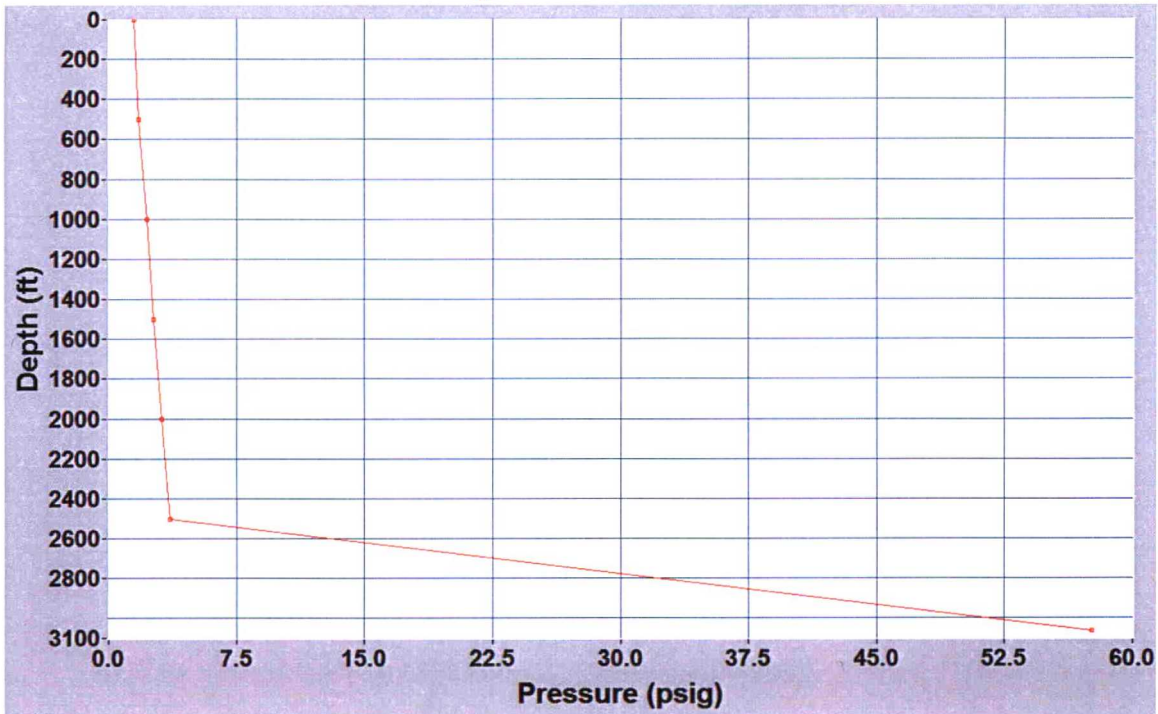
Probe Serial Number 1162

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0937	1037	3065.000	57.632	-	101.858	-
1039	1044	2500.000	3.630	0.0956	107.492	-0.0100
1045	1050	2000.000	3.156	0.0009	103.244	0.0085
1051	1056	1500.000	2.666	0.0010	99.626	0.0072
1057	1102	1000.000	2.257	0.0008	95.000	0.0093
1104	1109	500.000	1.787	0.0009	89.330	0.0113
1110	1115	0.000	1.501	0.0006	83.336	0.0120

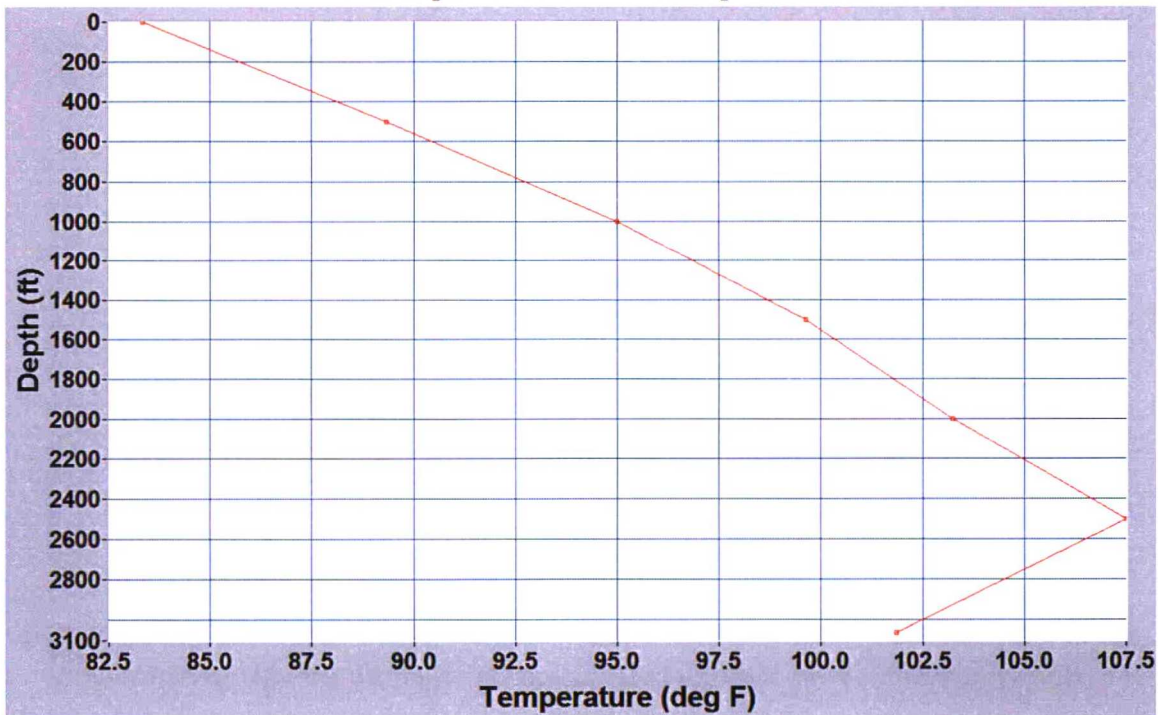
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

1162 Depth vs. Pressure



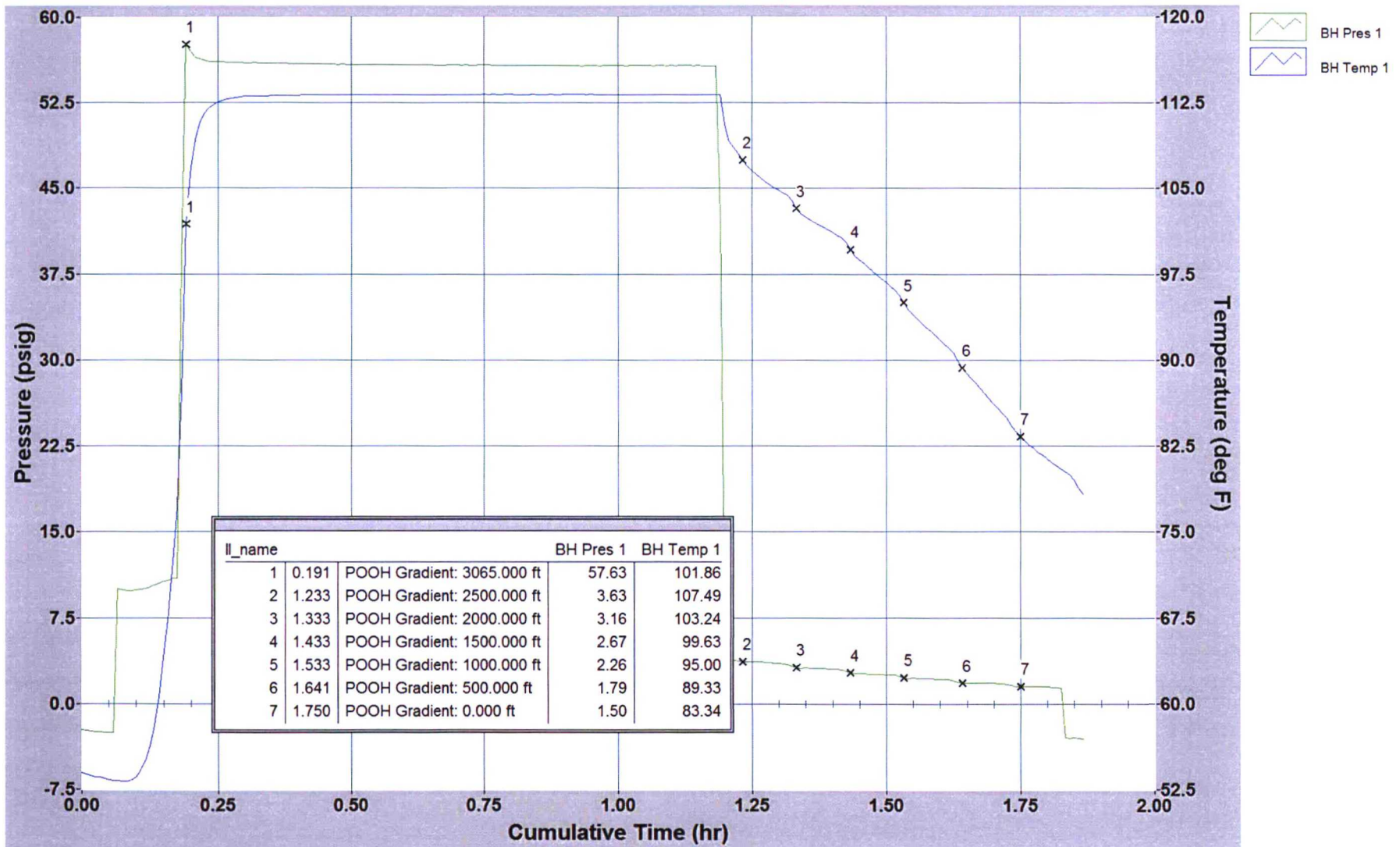
1162 Depth vs. Temperature



Company Name HILCORP
 Well Name SAN JUAN 30-5 #219 POW
 Type of Test POOH STATIC GRADIENT
 Date(s) of Test 5/28/19



SAN JUAN 30-5 UNIT #219 POW



Company Name HILCORP
Well Name SAN JUAN 30-5 #219 POW
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	09:25:40	0.0000	-2.294	53.924
2019/05/28	09:26:09	0.0081	-2.338	53.834
2019/05/28	09:27:09	0.0247	-2.454	53.600
2019/05/28	09:28:09	0.0414	-2.505	53.420
2019/05/28	09:29:09	0.0581	-2.508	53.276
2019/05/28	09:29:39	0.0664	10.029	53.258
2019/05/28	09:30:39	0.0831	9.881	53.204
2019/05/28	09:31:39	0.0997	9.900	53.582
2019/05/28	09:32:39	0.1164	10.051	55.022
2019/05/28	09:33:09	0.1247	10.196	56.300
2019/05/28	09:34:09	0.1414	10.509	60.620
2019/05/28	09:35:09	0.1581	10.772	67.910
2019/05/28	09:36:09	0.1747	10.921	77.198
2019/05/28	09:36:39	0.1831	38.570	87.188
POOH Gradient: 3065.000 ft				
2019/05/28	09:37:09	0.1914	57.632	101.858
2019/05/28	09:37:39	0.1997	56.952	106.844
2019/05/28	09:38:39	0.2164	56.327	110.732
2019/05/28	09:39:39	0.2331	56.130	112.064
2019/05/28	09:40:09	0.2414	56.072	112.352
2019/05/28	09:41:09	0.2581	56.069	112.712
2019/05/28	09:42:09	0.2747	56.037	112.910
2019/05/28	09:43:09	0.2914	56.045	113.018
2019/05/28	09:43:39	0.2997	56.001	113.054
2019/05/28	09:44:39	0.3164	56.009	113.072
2019/05/28	09:45:39	0.3331	55.969	113.108
2019/05/28	09:46:39	0.3497	55.953	113.126
2019/05/28	09:47:09	0.3581	55.943	113.126
2019/05/28	09:48:09	0.3747	55.970	113.162
2019/05/28	09:49:09	0.3914	55.905	113.162
2019/05/28	09:50:09	0.4081	55.925	113.180
2019/05/28	09:50:39	0.4164	55.934	113.180
2019/05/28	09:51:39	0.4331	55.905	113.198
2019/05/28	09:52:39	0.4497	55.905	113.198
2019/05/28	09:53:39	0.4664	55.902	113.198
2019/05/28	09:54:09	0.4747	55.877	113.180
2019/05/28	09:55:09	0.4914	55.857	113.216
2019/05/28	09:56:09	0.5081	55.873	113.234
2019/05/28	09:57:09	0.5247	55.866	113.216
2019/05/28	09:57:39	0.5331	55.831	113.216
2019/05/28	09:58:39	0.5497	55.864	113.216
2019/05/28	09:59:39	0.5664	55.857	113.216
2019/05/28	10:00:39	0.5831	55.857	113.234
2019/05/28	10:01:09	0.5914	55.840	113.216
2019/05/28	10:02:09	0.6081	55.828	113.216
2019/05/28	10:03:09	0.6247	55.842	113.216
2019/05/28	10:04:09	0.6414	55.842	113.216
2019/05/28	10:04:39	0.6497	55.831	113.216
2019/05/28	10:05:39	0.6664	55.792	113.216
2019/05/28	10:06:39	0.6831	55.829	113.216
2019/05/28	10:07:39	0.6997	55.831	113.198
2019/05/28	10:08:09	0.7081	55.800	113.216
2019/05/28	10:09:09	0.7247	55.799	113.216
2019/05/28	10:10:09	0.7414	55.845	113.234

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/28	10:11:09	0.7581	55.829	113.234
2019/05/28	10:11:39	0.7664	55.805	113.252
2019/05/28	10:12:39	0.7831	55.780	113.234
2019/05/28	10:13:39	0.7997	55.787	113.252
2019/05/28	10:14:39	0.8164	55.792	113.234
2019/05/28	10:15:09	0.8247	55.811	113.234
2019/05/28	10:16:09	0.8414	55.773	113.252
2019/05/28	10:17:09	0.8581	55.770	113.234
2019/05/28	10:18:09	0.8747	55.799	113.252
2019/05/28	10:19:09	0.8914	55.779	113.234
2019/05/28	10:20:09	0.9081	55.774	113.252
2019/05/28	10:21:09	0.9247	55.771	113.252
2019/05/28	10:22:09	0.9414	55.795	113.234
2019/05/28	10:22:39	0.9497	55.757	113.252
2019/05/28	10:23:39	0.9664	55.750	113.234
2019/05/28	10:24:39	0.9831	55.771	113.234
2019/05/28	10:25:39	0.9997	55.777	113.234
2019/05/28	10:26:09	1.0081	55.757	113.216
2019/05/28	10:27:09	1.0247	55.771	113.216
2019/05/28	10:28:09	1.0414	55.777	113.234
2019/05/28	10:29:09	1.0581	55.764	113.234
2019/05/28	10:29:39	1.0664	55.750	113.216
2019/05/28	10:30:39	1.0831	55.770	113.234
2019/05/28	10:31:39	1.0997	55.797	113.234
2019/05/28	10:32:39	1.1164	55.795	113.234
2019/05/28	10:33:09	1.1247	55.774	113.234
2019/05/28	10:34:09	1.1414	55.742	113.234
2019/05/28	10:35:09	1.1581	55.737	113.234
2019/05/28	10:36:09	1.1747	55.741	113.234
2019/05/28	10:36:39	1.1831	55.737	113.216
2019/05/28	10:37:39	1.1997	3.775	110.606
2019/05/28	10:38:39	1.2164	3.733	108.554
POOH Gradient: 2500.000 ft				
2019/05/28	10:39:39	1.2331	3.630	107.492
2019/05/28	10:40:09	1.2414	3.635	106.988
2019/05/28	10:41:09	1.2581	3.617	106.214
2019/05/28	10:42:09	1.2747	3.581	105.584
2019/05/28	10:43:09	1.2914	3.511	105.062
2019/05/28	10:43:39	1.2997	3.516	104.828
2019/05/28	10:44:39	1.3164	3.400	104.414
POOH Gradient: 2000.000 ft				
2019/05/28	10:45:39	1.3331	3.156	103.244
2019/05/28	10:46:39	1.3497	3.143	102.506
2019/05/28	10:47:09	1.3581	3.076	102.254
2019/05/28	10:48:09	1.3747	3.072	101.786
2019/05/28	10:49:09	1.3914	3.030	101.336
2019/05/28	10:50:09	1.4081	2.994	100.886
2019/05/28	10:50:39	1.4164	2.965	100.652
POOH Gradient: 1500.000 ft				
2019/05/28	10:51:39	1.4331	2.666	99.626
2019/05/28	10:52:39	1.4497	2.619	98.744
2019/05/28	10:53:39	1.4664	2.580	98.060
2019/05/28	10:54:09	1.4747	2.567	97.736
2019/05/28	10:55:09	1.4914	2.543	97.088

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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	10:56:09	1.5081	2.519	96.440
2019/05/28	10:57:09	1.5247	2.395	95.684
POOH Gradient: 1000.000 ft				
2019/05/28	10:57:39	1.5331	2.257	95.000
2019/05/28	10:58:39	1.5497	2.221	93.956
2019/05/28	10:59:39	1.5664	2.194	93.218
2019/05/28	11:00:39	1.5831	2.196	92.480
2019/05/28	11:01:09	1.5914	2.154	92.120
2019/05/28	11:02:09	1.6081	2.145	91.400
2019/05/28	11:03:09	1.6247	2.002	90.644
POOH Gradient: 500.000 ft				
2019/05/28	11:04:09	1.6414	1.787	89.330
2019/05/28	11:04:39	1.6497	1.814	88.862
2019/05/28	11:05:39	1.6664	1.836	87.962
2019/05/28	11:06:39	1.6831	1.797	87.080
2019/05/28	11:07:39	1.6997	1.813	86.216
2019/05/28	11:08:09	1.7081	1.774	85.784
2019/05/28	11:09:09	1.7247	1.697	84.938
2019/05/28	11:10:09	1.7414	1.523	83.804
POOH Gradient: 0.000 ft				
2019/05/28	11:10:39	1.7497	1.501	83.336
2019/05/28	11:11:09	1.7581	1.521	82.958
2019/05/28	11:11:39	1.7664	1.474	82.598
2019/05/28	11:12:39	1.7831	1.479	81.968
2019/05/28	11:13:39	1.7997	1.476	81.356
2019/05/28	11:14:39	1.8164	1.413	80.798
2019/05/28	11:15:39	1.8331	-2.999	80.240
2019/05/28	11:16:39	1.8497	-2.991	79.520