

SAN JUAN 30-5 UNIT 213
30-039-24826

mk

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
Well Location	T30N, R5W, Sec 5
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Basin Fruitland Coal
Perforated Intervals	Observation
Mid-point of Perforated Intervals (MPP)	3172-3292
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

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/24/18
Dead-weight Gauge Tubing Pressure	200
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/24/18 @1244
Date / Time off Bottom	5/24/18 @1344
Probe Serial Number	W1159
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3000

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	212.7 psig
Maximum Recorded Probe Temperature	108.9 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

NMOCB

JUN 04 2018

DISTRICT III

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Company Name Hilcorp
Well Name San Juan 30-5 Unit #213
Type of Test POOH Static Gradient
Date(s) of Test 5/24/18



PROBE INFORMATION

Probe Serial Number W1159
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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Date(s) of Test	5/24/18



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB 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 W1159

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1244	1344	3000.000	212.723	-	94.982	-
1345	1350	2500.000	207.737	0.0100	107.632	-0.0253
1352	1357	2000.000	203.848	0.0078	101.511	0.0122
1358	1403	1500.000	201.045	0.0056	92.806	0.0174
1404	1409	1000.000	198.238	0.0056	85.356	0.0149
1410	1415	500.000	195.042	0.0064	75.751	0.0192
1417	1422	0.000	192.994	0.0041	68.310	0.0149

Extrapolated to MPP:

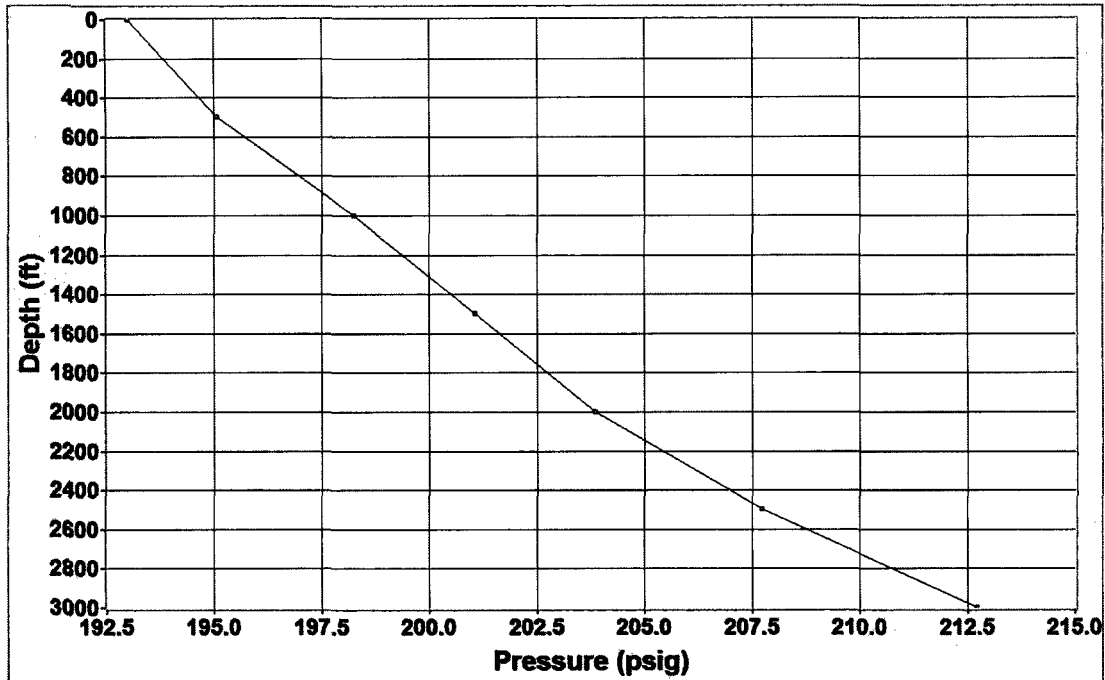
(ft)	(psig)	(deg F)
0.000		

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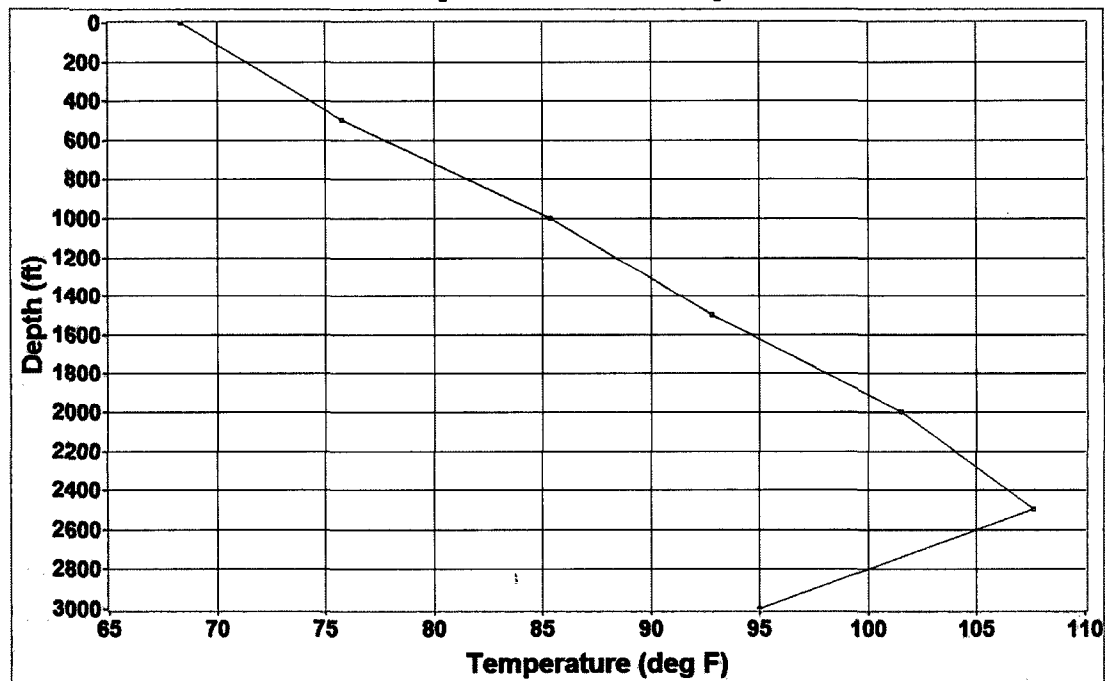


Probe Serial Number W1159

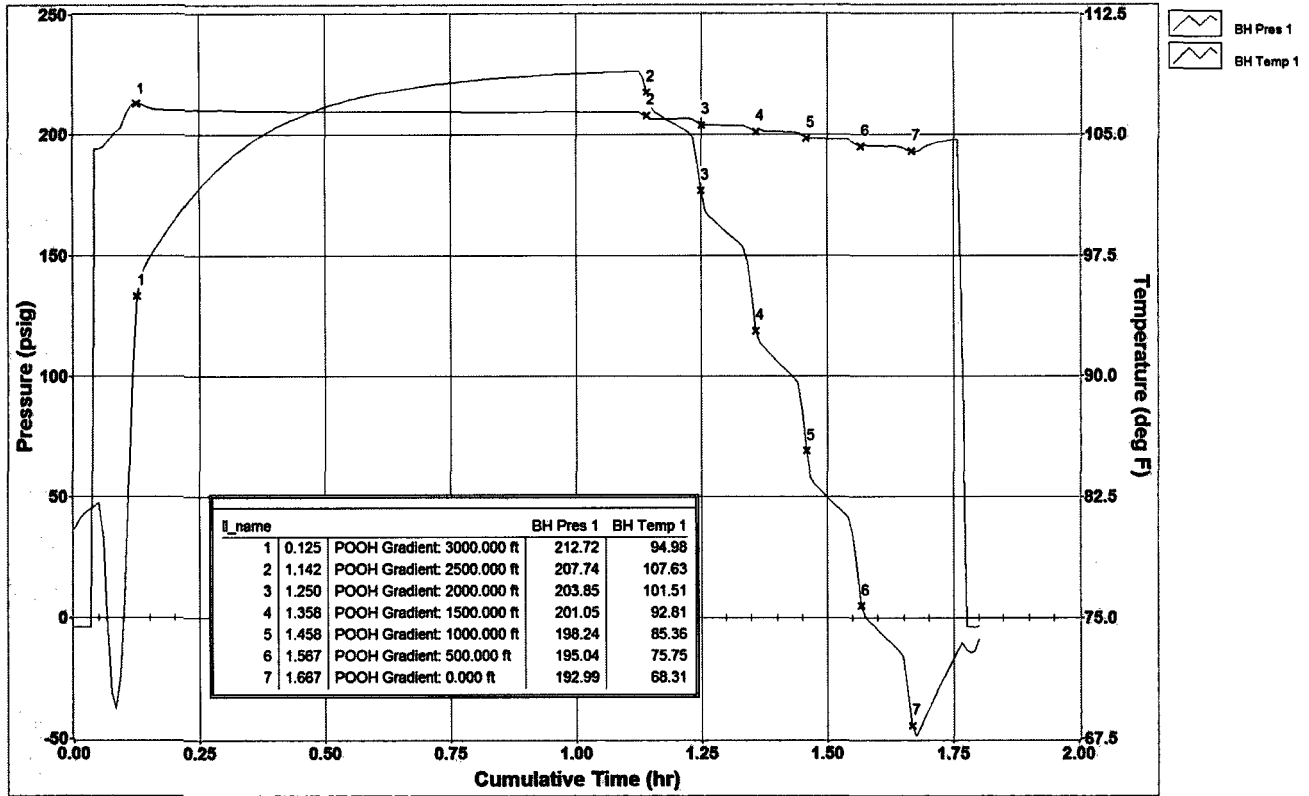
W1159 Depth vs. Pressure



W1159 Depth vs. Temperature



San Juan 30-5 Unit #213



Company Name Hilcorp
Well Name San Juan 30-5 Unit #213
Type of Test POOH Static Gradient
Date(s) of Test 5/24/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	12:36:59	0.0000	-3.906	80.485
2018/05/24	12:37:29	0.0083	-3.798	80.902
2018/05/24	12:37:59	0.0167	-3.752	81.293
2018/05/24	12:38:29	0.0250	-3.794	81.585
2018/05/24	12:38:59	0.0333	-3.819	81.766
2018/05/24	12:39:29	0.0417	194.114	81.932
2018/05/24	12:39:59	0.0500	194.130	82.130
2018/05/24	12:40:29	0.0583	194.927	79.851
2018/05/24	12:40:59	0.0667	196.995	74.350
2018/05/24	12:41:29	0.0750	198.873	70.297
2018/05/24	12:41:59	0.0833	201.120	69.350
2018/05/24	12:42:29	0.0917	202.454	71.443
2018/05/24	12:42:59	0.1000	206.577	76.176
2018/05/24	12:43:29	0.1083	209.921	82.647
2018/05/24	12:43:59	0.1167	212.457	89.836
POOH Gradient: 3000.000 ft				
2018/05/24	12:44:29	0.1250	212.723	94.982
2018/05/24	12:44:59	0.1333	212.605	96.274
2018/05/24	12:45:29	0.1417	211.761	96.865
2018/05/24	12:45:59	0.1500	211.048	97.320
2018/05/24	12:46:29	0.1583	210.575	97.736
2018/05/24	12:46:59	0.1667	210.423	98.137
2018/05/24	12:47:29	0.1750	210.223	98.535
2018/05/24	12:47:59	0.1833	210.086	98.920
2018/05/24	12:48:29	0.1917	210.015	99.302
2018/05/24	12:48:59	0.2000	210.008	99.680
2018/05/24	12:49:29	0.2083	210.045	100.042
2018/05/24	12:49:59	0.2167	210.080	100.386
2018/05/24	12:50:29	0.2250	210.004	100.719
2018/05/24	12:50:59	0.2333	210.149	101.043
2018/05/24	12:51:29	0.2417	210.248	101.350
2018/05/24	12:51:59	0.2500	210.109	101.646
2018/05/24	12:52:29	0.2583	210.140	101.926
2018/05/24	12:52:59	0.2667	209.989	102.198
2018/05/24	12:53:29	0.2750	210.002	102.461
2018/05/24	12:53:59	0.2833	209.920	102.718
2018/05/24	12:54:29	0.2917	210.247	102.954
2018/05/24	12:54:59	0.3000	210.114	103.185
2018/05/24	12:55:29	0.3083	209.899	103.415
2018/05/24	12:55:59	0.3167	209.920	103.633
2018/05/24	12:56:29	0.3250	209.846	103.845
2018/05/24	12:56:59	0.3333	209.828	104.038
2018/05/24	12:57:29	0.3417	209.840	104.236
2018/05/24	12:57:59	0.3500	209.797	104.430
2018/05/24	12:58:29	0.3583	209.777	104.608
2018/05/24	12:58:59	0.3667	209.792	104.778
2018/05/24	12:59:29	0.3750	209.753	104.947
2018/05/24	12:59:59	0.3833	209.725	105.105
2018/05/24	13:00:29	0.3917	209.692	105.251
2018/05/24	13:00:59	0.4000	209.686	105.402
2018/05/24	13:01:29	0.4083	209.698	105.546
2018/05/24	13:01:59	0.4167	209.650	105.674
2018/05/24	13:02:29	0.4250	209.582	105.795
2018/05/24	13:02:59	0.4333	209.598	105.906

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	13:03:29	0.4417	209.558	106.020
2018/05/24	13:03:59	0.4500	209.570	106.126
2018/05/24	13:04:29	0.4583	209.577	106.228
2018/05/24	13:04:59	0.4667	209.582	106.331
2018/05/24	13:05:29	0.4750	209.589	106.423
2018/05/24	13:05:59	0.4833	209.551	106.518
2018/05/24	13:06:29	0.4917	209.525	106.608
2018/05/24	13:06:59	0.5000	209.469	106.696
2018/05/24	13:07:29	0.5083	209.475	106.781
2018/05/24	13:07:59	0.5167	209.468	106.862
2018/05/24	13:08:29	0.5250	209.444	106.939
2018/				

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	13:30:29	0.8917	209.257	108.639
2018/05/24	13:30:59	0.9000	209.258	108.646
2018/05/24	13:31:29	0.9083	209.259	108.657
2018/05/24	13:31:59	0.9167	209.265	108.676
2018/05/24	13:32:29	0.9250	209.266	108.689
2018/05/24	13:32:59	0.9333	209.268	108.705
2018/05/24	13:33:29	0.9417	209.334	108.718
2018/05/24	13:33:59	0.9500	209.332	108.732
2018/05/24	13:34:29	0.9583	209.331	108.750
2018/05/24	13:34:59	0.9667	209.329	108.761
2018/05/24	13:35:29	0.9750	209.326	108.766
2018/05/24	13:35:59	0.9833	209.325	108.788
2018/05/24	13:36:29	0.9917	209.323	108.795
2018/05/24	13:36:59	1.0000	209.321	108.806
2018/05/24	13:37:29	1.0083	209.315	108.817
2018/05/24	13:37:59	1.0167	209.313	108.824
2018/05/24	13:38:29	1.0250	209.311	108.838
2018/05/24	13:38:59	1.0333	209.312	108.846
2018/05/24	13:39:29	1.0417	209.310	108.856
2018/05/24	13:39:59	1.0500	209.310	108.860
2018/05/24	13:40:29	1.0583	209.309	108.876
2018/05/24	13:40:59	1.0667	209.307	108.885
2018/05/24	13:41:29	1.0750	209.304	108.889
2018/05/24	13:41:59	1.0833	209.302	108.900
2018/05/24	13:42:29	1.0917	209.302	108.905
2018/05/24	13:42:59	1.1000	209.304	108.919
2018/05/24	13:43:29	1.1083	209.308	108.925
2018/05/24	13:43:59	1.1167	209.311	108.928
2018/05/24	13:44:29	1.1250	209.264	108.918
2018/05/24	13:44:59	1.1333	208.185	108.541
POOH Gradient: 2500.000 ft				
2018/05/24	13:45:29	1.1417	207.737	107.632
2018/05/24	13:45:59	1.1500	206.491	106.671
2018/05/24	13:46:29	1.1583	206.465	106.394
2018/05/24	13:46:59	1.1667	206.449	106.214
2018/05/24	13:47:29	1.1750	206.451	106.047
2018/05/24	13:47:59	1.1833	206.516	105.890
2018/05/24	13:48:29	1.1917	206.503	105.732
2018/05/24	13:48:59	1.2000	206.490	105.582
2018/05/24	13:49:29	1.2083	206.691	105.427
2018/05/24	13:49:59	1.2167	206.608	105.283
2018/05/24	13:50:29	1.2250	206.553	105.136
2018/05/24	13:50:59	1.2333	205.983	104.734
2018/05/24	13:51:29	1.2417	204.868	103.323
POOH Gradient: 2000.000 ft				
2018/05/24	13:51:59	1.2500	203.848	101.511
2018/05/24	13:52:29	1.2583	203.792	100.270
2018/05/24	13:52:59	1.2667	203.759	99.918
2018/05/24	13:53:29	1.2750	203.736	99.660
2018/05/24	13:53:59	1.2833	203.737	99.415
2018/05/24	13:54:29	1.2917	203.716	99.178
2018/05/24	13:54:59	1.3000	203.691	98.940
2018/05/24	13:55:29	1.3083	203.668	98.708
2018/05/24	13:55:59	1.3167	203.709	98.485

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	13:56:29	1.3250	203.690	98.265
2018/05/24	13:56:59	1.3333	203.715	98.047
2018/05/24	13:57:29	1.3417	202.737	97.083
2018/05/24	13:57:59	1.3500	201.960	95.056
POOH Gradient: 1500.000 ft				
2018/05/24	13:58:29	1.3583	201.045	92.806
2018/05/24	13:58:59	1.3667	201.834	92.053
2018/05/24	13:59:29	1.3750	201.115	91.731
2018/05/24	13:59:59	1.3833	201.049	91.450
2018/05/24	14:00:29	1.3917	201.019	91.189
2018/05/24	14:00:59	1.4000	200.969	90.914
2018/05/24	14:			

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/24	14:21:29	1.7417	197.467	71.989
2018/05/24	14:21:59	1.7500	197.603	72.475
2018/05/24	14:22:29	1.7583	197.781	73.006
2018/05/24	14:22:59	1.7667	115.714	73.463
2018/05/24	14:23:29	1.7750	-3.704	73.044
2018/05/24	14:23:59	1.7833	-3.726	72.819
2018/05/24	14:24:29	1.7917	-3.749	72.948