

ALLISON UNIT 1 POW bl
30-045-11411

Pressure Test Report

COMPANY INFORMATION

Company Name
Representative
Phone
Fax
Address

HILCORP
PRISCILLA SHORTY

NMOCD

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

ALLISON UNIT #1 POW
T32N, R6W, SEC 17
BASIN FRUITLAND COAL
OBSERVATION
3064-3114

6547
8082
8660
7 TO 3240
2 3/8 TO 2989

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
5/14/19
10
5/14/19 1247
5/14/19 1347

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

W1032
0-6000
3000

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

1315.3 psig
112.6 deg F

Company Name	HILCORP
Well Name	ALLISON UNIT #1 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	5/14/19



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1 1/2 IMPRESSION BLOCK AND TAGGED FILL @3007 WLM. RIH WITH BHP GAUGE TO 3000 FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
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Pressure vs. Depth

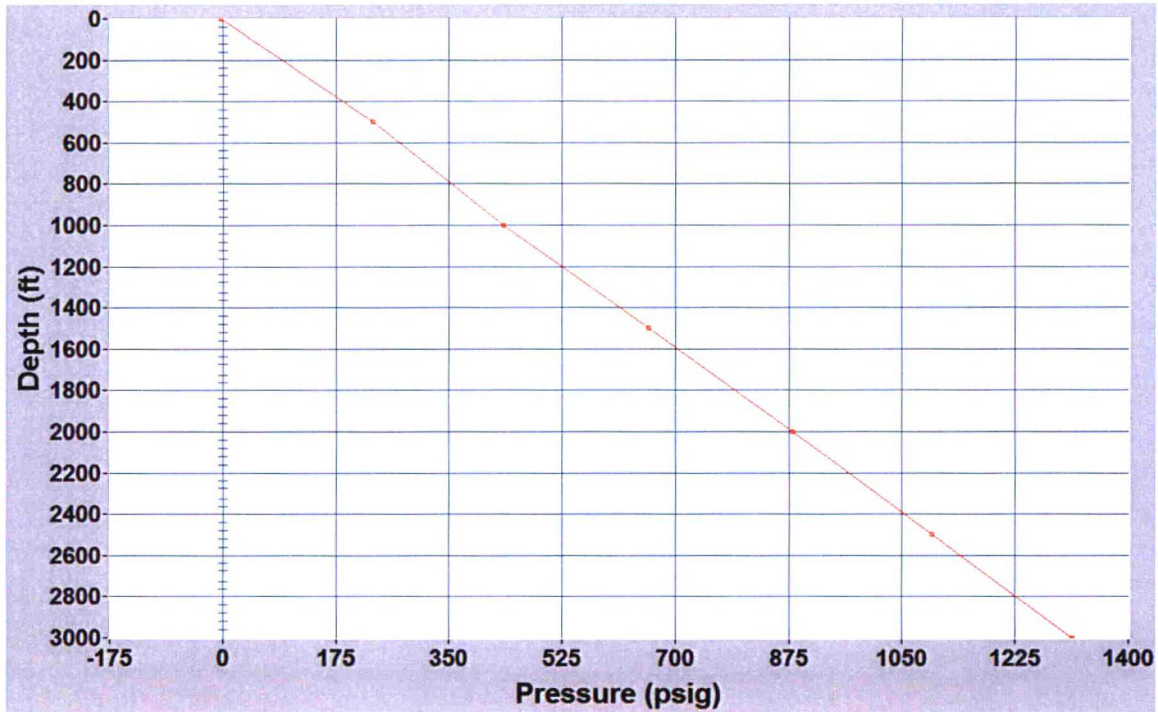
Probe Serial Number W1032

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1247	1347	3000.000	1313.251	-	107.780	-
1348	1353	2500.000	1096.068	0.4344	102.650	0.0103
1354	1359	2000.000	881.077	0.4300	93.938	0.0174
1400	1405	1500.000	658.853	0.4444	83.156	0.0216
1406	1411	1000.000	435.651	0.4464	73.220	0.0199
1412	1417	500.000	233.337	0.4046	66.794	0.0129
1419	1424	0.000	-2.673	0.4720	59.018	0.0156

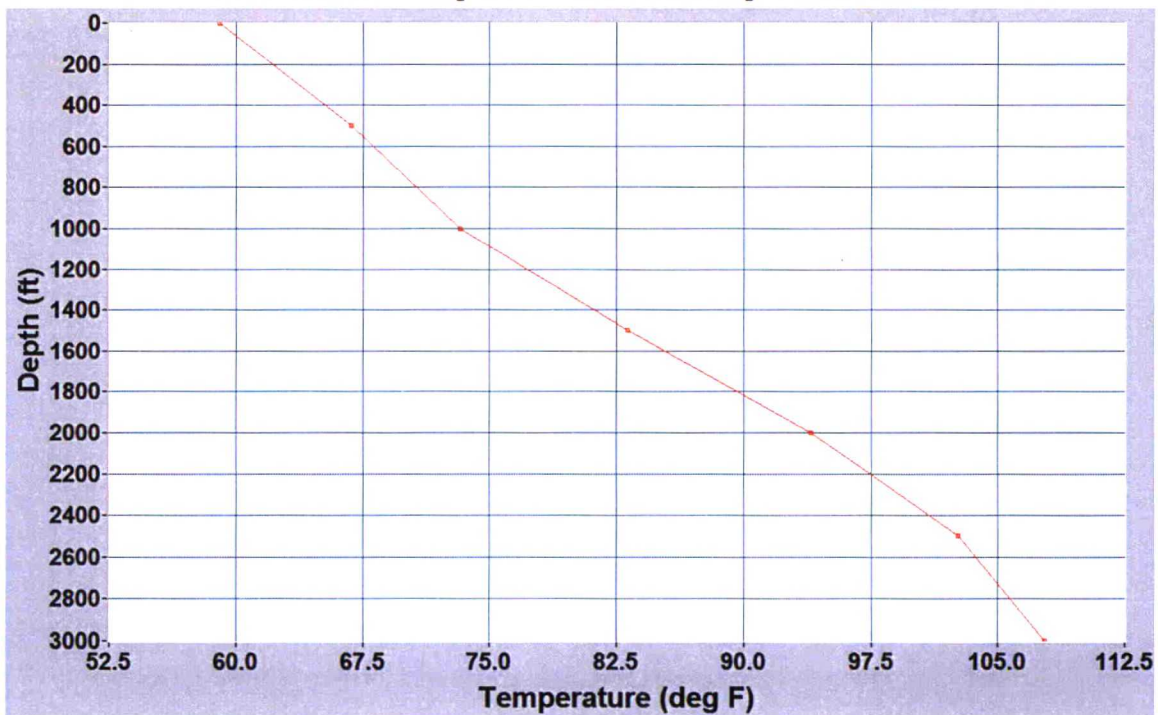
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

W1032 Depth vs. Pressure



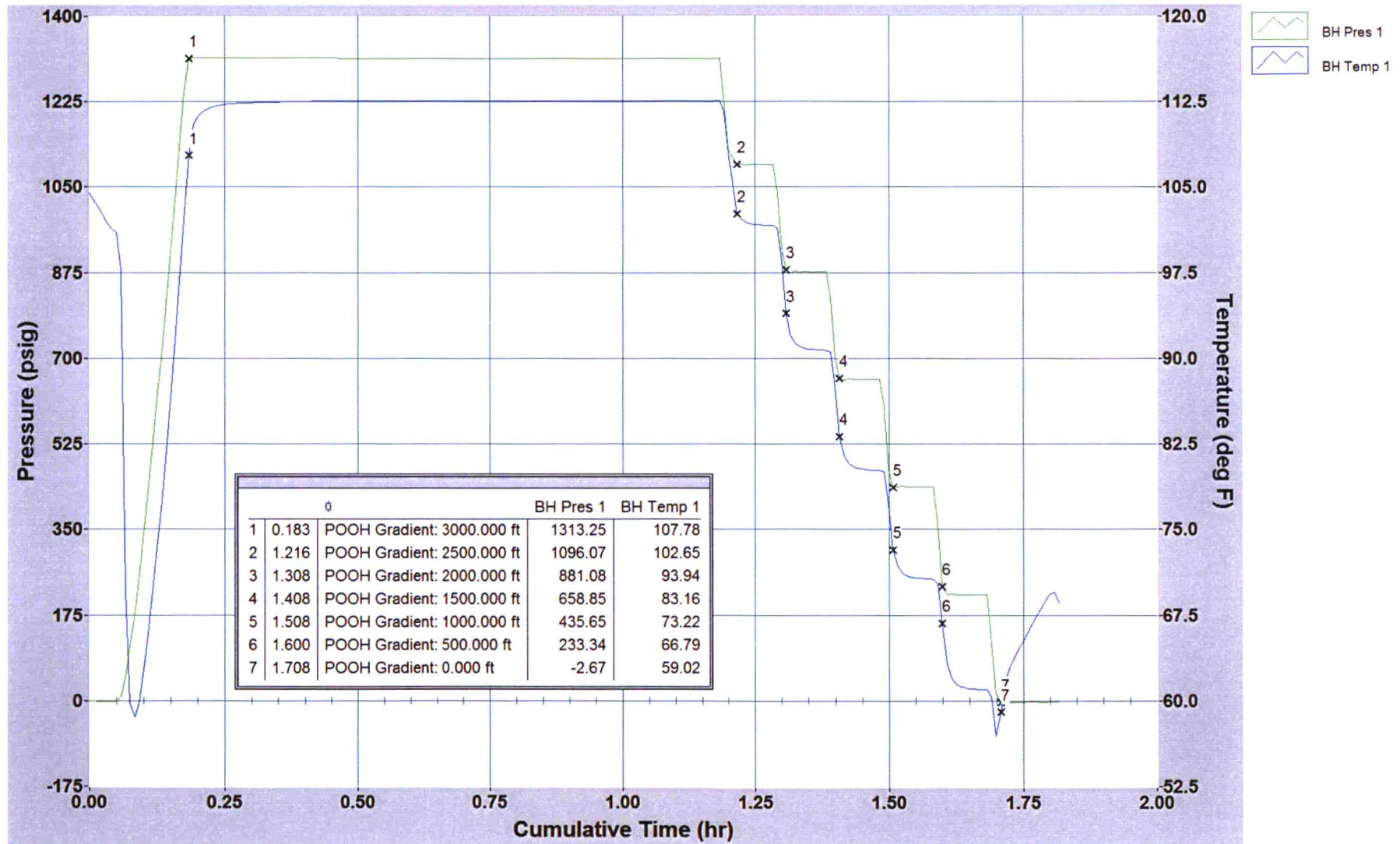
W1032 Depth vs. Temperature



Company Name HILCORP
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ALLISON UNIT #1 POW



Company Name HILCORP
Well Name ALLISON UNIT #1 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 5/14/19



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/14	12:36:25	0.0000	-1.015	104.486
2019/05/14	12:36:54	0.0081	-1.041	103.838
2019/05/14	12:37:54	0.0247	-1.099	102.560
2019/05/14	12:38:24	0.0331	-1.131	101.858
2019/05/14	12:39:24	0.0497	-1.185	100.976
2019/05/14	12:39:54	0.0581	7.965	97.772
2019/05/14	12:40:54	0.0747	111.170	59.774
2019/05/14	12:41:54	0.0914	257.153	59.954
2019/05/14	12:42:54	0.1081	428.147	65.858
2019/05/14	12:43:24	0.1164	520.915	69.548
2019/05/14	12:44:24	0.1331	715.181	77.432
2019/05/14	12:45:24	0.1497	918.817	86.504
2019/05/14	12:46:24	0.1664	1131.207	96.782
2019/05/14	12:46:54	0.1747	1243.118	102.110
POOH Gradient: 3000.000 ft				
2019/05/14	12:47:24	0.1831	1313.251	107.780
2019/05/14	12:47:54	0.1914	1315.334	110.444
2019/05/14	12:48:54	0.2081	1314.725	111.578
2019/05/14	12:49:54	0.2247	1314.616	112.010
2019/05/14	12:50:24	0.2331	1314.682	112.118
2019/05/14	12:51:24	0.2497	1314.597	112.262
2019/05/14	12:51:54	0.2581	1314.547	112.316
2019/05/14	12:52:54	0.2747	1314.523	112.370
2019/05/14	12:53:24	0.2831	1314.526	112.406
2019/05/14	12:54:24	0.2997	1314.452	112.406
2019/05/14	12:55:24	0.3164	1314.429	112.460
2019/05/14	12:56:24	0.3331	1314.378	112.478
2019/05/14	12:56:54	0.3414	1314.362	112.478
2019/05/14	12:57:54	0.3581	1314.323	112.496
2019/05/14	12:58:54	0.3747	1314.284	112.514
2019/05/14	12:59:54	0.3914	1314.248	112.532
2019/05/14	13:00:24	0.3997	1314.217	112.532
2019/05/14	13:01:24	0.4164	1314.193	112.550
2019/05/14	13:02:24	0.4331	1314.171	112.568
2019/05/14	13:03:24	0.4497	1314.132	112.568
2019/05/14	13:03:54	0.4581	1314.142	112.568
2019/05/14	13:04:54	0.4747	1314.112	112.568
2019/05/14	13:05:24	0.4831	1314.114	112.586
2019/05/14	13:06:24	0.4997	1314.067	112.568
2019/05/14	13:06:54	0.5081	1314.078	112.568
2019/05/14	13:07:54	0.5247	1314.052	112.568
2019/05/14	13:08:54	0.5414	1314.046	112.586
2019/05/14	13:09:54	0.5581	1314.022	112.568
2019/05/14	13:10:24	0.5664	1314.019	112.586
2019/05/14	13:11:24	0.5831	1313.998	112.586
2019/05/14	13:12:24	0.5997	1314.010	112.604
2019/05/14	13:13:24	0.6164	1313.987	112.586
2019/05/14	13:13:54	0.6247	1313.975	112.586
2019/05/14	13:14:54	0.6414	1313.962	112.604
2019/05/14	13:15:54	0.6581	1313.929	112.586
2019/05/14	13:16:54	0.6747	1313.927	112.586
2019/05/14	13:17:24	0.6831	1313.901	112.586
2019/05/14	13:18:24	0.6997	1313.881	112.586
2019/05/14	13:19:24	0.7164	1313.859	112.586

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/14	13:20:24	0.7331	1313.858	112.586
2019/05/14	13:20:54	0.7414	1313.849	112.586
2019/05/14	13:21:54	0.7581	1313.842	112.604
2019/05/14	13:22:54	0.7747	1313.808	112.586
2019/05/14	13:23:54	0.7914	1313.817	112.586
2019/05/14	13:24:24	0.7997	1313.801	112.586
2019/05/14	13:25:24	0.8164	1313.818	112.604
2019/05/14	13:26:24	0.8331	1313.814	112.604
2019/05/14	13:27:24	0.8497	1313.790	112.586
2019/05/14	13:27:54	0.8581	1313.788	112.586
2019/05/14	13:28:54	0.8747	1313.756	112.586
2019/05/14	13:29:54	0.8914	1313.745	112.586
2019/05/14	13:30:54	0.9081	1313.711	112.586
2019/05/14	13:31:24	0.9164	1313.714	112.586
2019/05/14	13:32:24	0.9331	1313.695	112.586
2019/05/14	13:32:54	0.9414	1313.684	112.586
2019/05/14	13:33:54	0.9581	1313.672	112.586
2019/05/14	13:34:24	0.9664	1313.672	112.586
2019/05/14	13:35:24	0.9831	1313.655	112.586
2019/05/14	13:36:24	0.9997	1313.643	112.604
2019/05/14	13:37:24	1.0164	1313.614	112.586
2019/05/14	13:37:54	1.0247	1313.595	112.586
2019/05/14	13:38:54	1.0414	1313.571	112.586
2019/05/14	13:39:54	1.0581	1313.565	112.604
2019/05/14	13:40:54	1.0747	1313.544	112.586
2019/05/14	13:41:24	1.0831	1313.540	112.586
2019/05/14	13:42:24	1.0997	1313.533	112.586
2019/05/14	13:43:24	1.1164	1313.533	112.604
2019/05/14	13:44:24	1.1331	1313.521	112.586
2019/05/14	13:44:54	1.1414	1313.512	112.586
2019/05/14	13:45:54	1.1581	1313.508	112.586
2019/05/14	13:46:24	1.1664	1313.520	112.586
2019/05/14	13:47:24	1.1831	1313.476	112.586
2019/05/14	13:47:54	1.1914	1218.587	111.596
POOH Gradient: 2500.000 ft				
2019/05/14	13:49:24	1.2164	1096.068	102.650
2019/05/14	13:50:24	1.2331	1095.128	101.912
2019/05/14	13:51:24	1.2497	1095.437	101.714
2019/05/14	13:51:54	1.2581	1095.776	101.678
2019/05/14	13:52:54	1.2747	1095.676	101.624
2019/05/14	13:53:54	1.2914	1037.668	101.390
POOH Gradient: 2000.000 ft				
2019/05/14	13:54:54	1.3081	881.077	93.938
2019/05/14	13:55:24	1.3164	873.787	91.994
2019/05/14	13:56:24	1.3331	875.931	91.040
2019/05/14	13:57:24	1.3497	876.824	90.824
2019/05/14	13:58:24	1.3664	876.885	90.734
2019/05/14	13:58:54	1.3747	876.749	90.734
2019/05/14	13:59:54	1.3914	821.601	90.554
2019/05/14	14:00:24	1.3997	704.915	87.512
POOH Gradient: 1500.000 ft				
2019/05/14	14:00:54	1.4081	658.853	83.156
2019/05/14	14:01:24	1.4164	656.255	81.428
2019/05/14	14:01:54	1.4247	658.898	80.798

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2019/05/14	14:02:54	1.4414	658.000	80.384
2019/05/14	14:03:54	1.4581	657.695	80.240
2019/05/14	14:05:24	1.4831	657.765	80.168
2019/05/14	14:05:54	1.4914	602.375	80.042
POOH Gradient: 1000.000 ft				
2019/05/14	14:06:54	1.5081	435.651	73.220
2019/05/14	14:07:54	1.5247	437.834	71.186
2019/05/14	14:08:54	1.5414	437.817	70.826
2019/05/14	14:09:24	1.5497	437.469	70.736
2019/05/14	14:10:24	1.5664	437.601	70.682
2019/05/14	14:11:24	1.5831	437.643	70.646
POOH Gradient: 500.000 ft				
2019/05/14	14:12:24	1.5997	233.337	66.794
2019/05/14	14:12:54	1.6081	217.004	63.248
2019/05/14	14:13:54	1.6247	217.288	61.502
2019/05/14	14:14:54	1.6414	217.480	61.160
2019/05/14	14:15:54	1.6581	217.528	61.034
2019/05/14	14:16:24	1.6664	217.516	60.998
2019/05/14	14:17:24	1.6831	217.541	60.962
2019/05/14	14:18:24	1.6997	16.402	56.930
POOH Gradient: 0.000 ft				
2019/05/14	14:18:54	1.7081	-2.673	59.018
2019/05/14	14:19:24	1.7164	-2.696	61.736
2019/05/14	14:19:54	1.7247	-2.640	62.852
2019/05/14	14:20:54	1.7414	-2.561	64.508
2019/05/14	14:21:54	1.7581	-2.498	65.984
2019/05/14	14:22:54	1.7747	-2.519	67.388
2019/05/14	14:23:24	1.7831	-2.566	68.054
2019/05/14	14:24:24	1.7997	-1.687	69.350