

BP

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	Allison Unit #2 POW
Well Location	T32N, R6W, Sec. 19
Field and Pool	Basin Fruitland Coal
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	3062-3134
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	12
Casing Flange (CF)	
KB-CF	
Ground Level	6141
Plug Back Total Depth	3600
Total Depth	3645
Production Casing	4 1/2 to 3643
Production Tubing	2 3/8 to 3040

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/15/18
Dead-weight Gauge Tubing Pressure	70
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/15/18 @1325
Date / Time off Bottom	5/15/18 @1425
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3500

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	270.8 psig
Maximum Recorded Probe Temperature	129.5 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

NMOCD

MAY 29 2018

DISTRICT III

Company Name Hilcorp
Well Name Allison Unit #2 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/15/18



PROBE INFORMATION

Probe Serial Number W1036

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 Allison Unit #2 POW
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COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.5 IB and tagged fill @ 3587 WLM. RIH with BHP gauge to 3500 for 1 hour, then POOH making 5 minute stops per request.

Company Name Hilcorp
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Pressure vs. Depth

Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1325	1425	3500.000	267.918	-	112.933	-
1426	1431	3000.000	82.560	0.3707	124.169	-0.0225
1433	1438	2500.000	80.758	0.0036	115.732	0.0169
1439	1444	2000.000	79.920	0.0017	108.552	0.0144
1446	1451	1500.000	78.997	0.0018	100.000	0.0171
1452	1457	1000.000	78.232	0.0015	90.781	0.0184
1458	1503	500.000	77.576	0.0013	83.691	0.0142
1505	1510	0.000	76.803	0.0015	73.938	0.0195

Extrapolated to MPP:

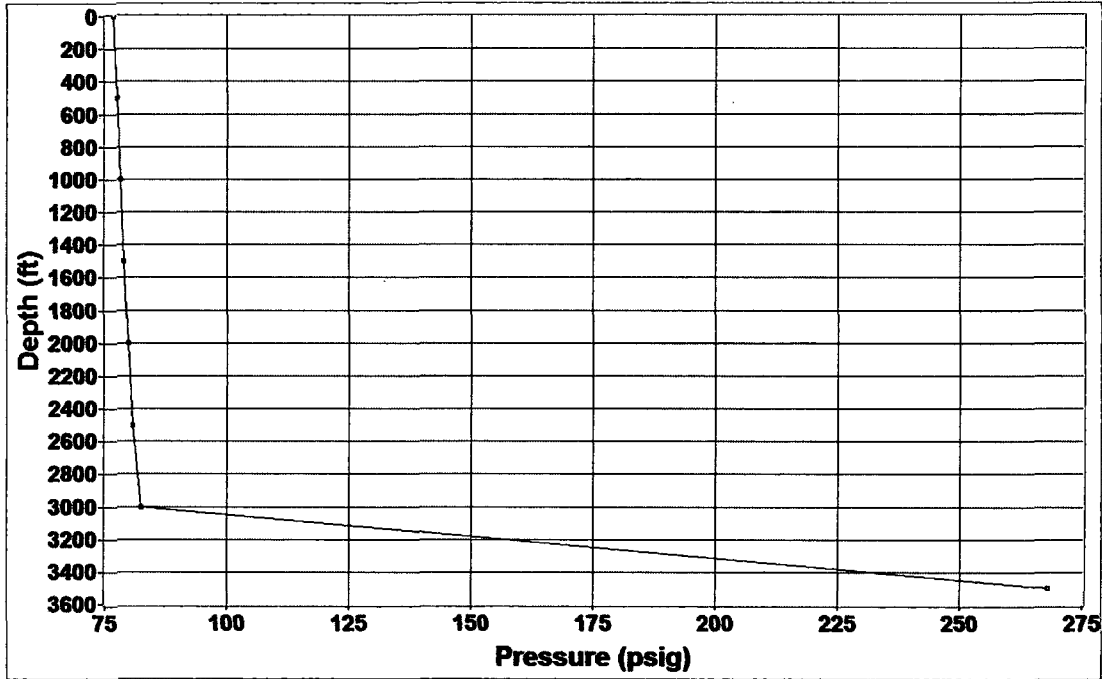
(ft)	(psig)	(deg F)
0.000		

Company Name Hilcorp
 Well Name Allison Unit #2 POW
 Type of Test POOH Static Gradient
 Date(s) of Test 5/15/18

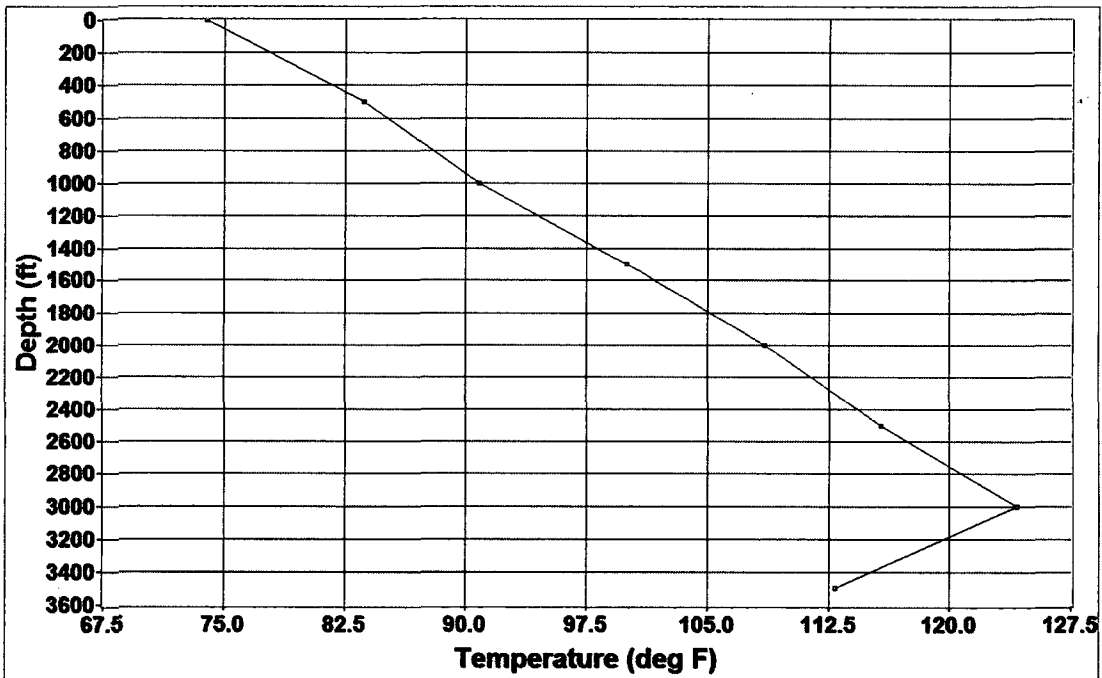


Probe Serial Number W1036

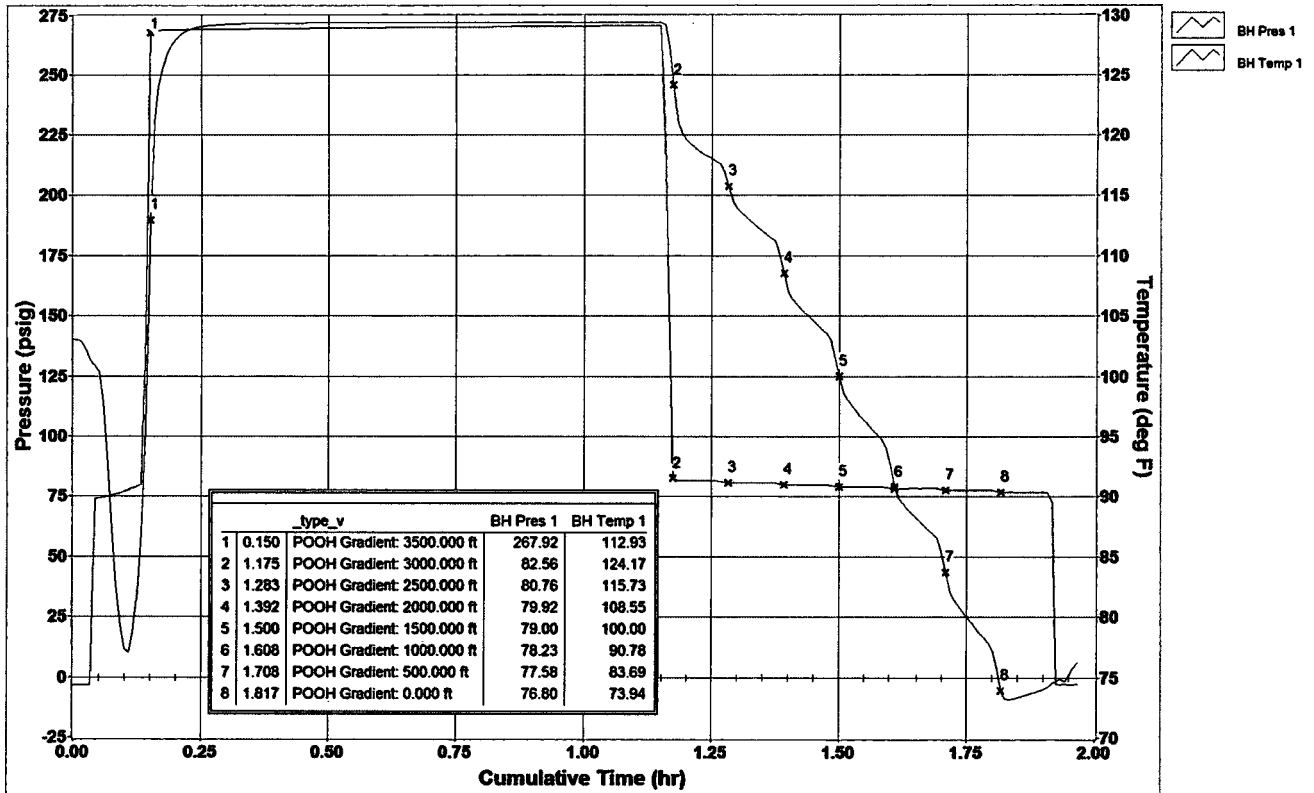
W1036 Depth vs. Pressure



W1036 Depth vs. Temperature



Allison Unit #2 POW



Company Name Hilcorp
Well Name Allison Unit #2 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/15/18



Date	Time	Cum. Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/15	13:16:12	0.0000	-3.170	103.060
2018/05/15	13:16:42	0.0083	-3.158	102.970
2018/05/15	13:17:12	0.0167	-3.175	102.747
2018/05/15	13:17:42	0.0250	-3.164	102.126
2018/05/15	13:18:12	0.0333	-3.240	101.331
2018/05/15	13:18:42	0.0417	74.102	100.891
2018/05/15	13:19:12	0.0500	74.204	100.364
2018/05/15	13:19:42	0.0583	74.472	97.866
2018/05/15	13:20:12	0.0667	74.887	92.631
2018/05/15	13:20:42	0.0750	75.378	87.267
2018/05/15	13:21:12	0.0833	75.874	82.600
2018/05/15	13:21:42	0.0917	76.320	79.221
2018/05/15	13:22:12	0.1000	76.985	77.311
2018/05/15	13:22:42	0.1083	77.606	77.065
2018/05/15	13:23:12	0.1167	78.325	78.706
2018/05/15	13:23:42	0.1250	78.986	82.044
2018/05/15	13:24:12	0.1333	79.716	87.013
2018/05/15	13:24:42	0.1417	142.815	95.581
POOH Gradient: 3500.000 ft				
2018/05/15	13:25:12	0.1500	267.918	112.933
2018/05/15	13:25:42	0.1583	268.903	121.078
2018/05/15	13:26:12	0.1667	268.968	124.077
2018/05/15	13:26:42	0.1750	269.043	125.739
2018/05/15	13:27:12	0.1833	269.092	126.797
2018/05/15	13:27:42	0.1917	269.205	127.530
2018/05/15	13:28:12	0.2000	269.264	128.052
2018/05/15	13:28:42	0.2083	269.254	128.401
2018/05/15	13:29:12	0.2167	269.251	128.631
2018/05/15	13:29:42	0.2250	269.275	128.806
2018/05/15	13:30:12	0.2333	269.292	128.926
2018/05/15	13:30:42	0.2417	269.307	129.024
2018/05/15	13:31:12	0.2500	269.318	129.088
2018/05/15	13:31:42	0.2583	269.340	129.142
2018/05/15	13:32:12	0.2667	269.351	129.193
2018/05/15	13:32:42	0.2750	269.407	129.232
2018/05/15	13:33:12	0.2833	269.433	129.256
2018/05/15	13:33:42	0.2917	269.441	129.286
2018/05/15	13:34:12	0.3000	269.463	129.315
2018/05/15	13:34:42	0.3083	269.491	129.330
2018/05/15	13:35:12	0.3167	269.496	129.339
2018/05/15	13:35:42	0.3250	269.503	129.351
2018/05/15	13:36:12	0.3333	269.511	129.366
2018/05/15	13:36:42	0.3417	269.540	129.367
2018/05/15	13:37:12	0.3500	269.561	129.375
2018/05/15	13:37:42	0.3583	269.609	129.382
2018/05/15	13:38:12	0.3667	269.613	129.391
2018/05/15	13:38:42	0.3750	269.616	129.393
2018/05/15	13:39:12	0.3833	269.624	129.405
2018/05/15	13:39:42	0.3917	269.626	129.403
2018/05/15	13:40:12	0.4000	269.661	129.402
2018/05/15	13:40:42	0.4083	269.717	129.411
2018/05/15	13:41:12	0.4167	269.719	129.411
2018/05/15	13:41:42	0.4250	269.722	129.409
2018/05/15	13:42:12	0.4333	269.772	129.412

Date	Time	Cum. Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/15	13:42:42	0.4417	269.771	129.411
2018/05/15	13:43:12	0.4500	269.823	129.412
2018/05/15	13:43:42	0.4583	269.824	129.418
2018/05/15	13:44:12	0.4667	269.828	129.421
2018/05/15	13:44:42	0.4750	269.830	129.418
2018/05/15	13:45:12	0.4833	269.834	129.423
2018/05/15	13:45:42	0.4917	269.877	129.423
2018/05/15	13:46:12	0.5000	269.879	129.420
2018/05/15	13:46:42	0.5083	269.883	129.427
2018/05/15	13:47:12	0.5167	269.887	129.432
2018/05/15	13:47:42	0.5250	269.897	129.427
2018/05/15	13:48:12	0.5333	269.902	129.436
2018/05/15	13:48:42	0.5417	269.912	129.427
2018/05/15	13:49:12	0.5500	269.923	129.427
2018/05/15	13:49:42	0.5583	269.929	129.429
2018/05/15	13:50:12	0.5667	269.996	129.436
2018/05/15	13:50:42	0.5750	270.013	129.432
2018/05/15	13:51:12	0.5833	270.015	129.429
2018/05/15	13:51:42	0.5917	270.062	129.434
2018/05/15	13:52:12	0.6000	270.066	129.438
2018/05/15	13:52:42	0.6083	270.068	129.436
2018/05/15	13:53:12	0.6167	270.113	129.429
2018/05/15	13:53:42	0.6250	270.117	129.434
2018/05/15	13:54:12	0.6333	270.120	129.436
2018/05/15	13:54:42	0.6417	270.123	129.438
2018/05/15	13:55:12	0.6500	270.125	129.432
2018/05/15	13:55:42	0.6583	270.192	129.434
2018/05/15	13:56:12	0.6667	270.194	129.434
2018/05/15	13:56:42	0.6750	270.198	129.438
2018/05/15	13:57:12	0.6833	270.197	129.436
2018/05/15	13:57:42	0.6917	270.200	129.432
2018/05/15	13:58:12	0.7000	270.224	129.438
2018/05/15	13:58:42	0.7083	270.226	129.436
2018/05/15	13:59:12	0.7167	270.238	129.439
2018/05/15	13:59:42	0.7250	270.245	129.443
2018/05/15	14:00:12	0.7333	270.312	129.432
2018/05/15	14:00:42	0.7417	270.315	129.434
2018/05/15	14:01:12	0.7500	270.318	129.432
2018/05/15	14:01:42	0.7583	270.321	129.434
2018/05/15	14:02:12	0.7667	270.324	129.434
2018/05/15	14:02:42	0.7750	270.327	129.436
2018/05/15	14:03:12	0.7833	270.350	129.439
2018/05/15	14:03:42	0.7917	270.353	129.439
2018/05/15	14:04:12	0.8000	270.380	129.441
2018/05/15	14:04:42	0.8083	270.381	129.434
2018/05/15	14:05:12	0.8167	270.386	129.447
2018/05/15	14:05:42	0.8250	270.388	129.445
2018/05/15	14:06:12	0.8333	270.425	129.438
2018/05/15	14:06:42	0.8417	270.428	129.441
2018/05/15	14:07:12	0.8500	270.432	129.445
2018/05/15	14:07:42	0.8583	270.434	129.441
2018/05/15	14:08:12	0.8667	270.477	129.443
2018/05/15	14:08:42	0.8750	270.480	129.443
2018/05/15	14:09:12	0.8833	270.531	129.441

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/15	14:09:42	0.8917	270.535	129.443
2018/05/15	14:10:12	0.9000	270.538	129.445
2018/05/15	14:10:42	0.9083	270.541	129.447
2018/05/15	14:11:12	0.9167	270.543	129.439
2018/05/15	14:11:42	0.9250	270.598	129.443
2018/05/15	14:12:12	0.9333	270.602	129.448
2018/05/15	14:12:42	0.9417	270.599	129.448
2018/05/15	14:13:12	0.9500	270.598	129.445
2018/05/15	14:13:42	0.9583	270.602	129.454
2018/05/15	14:14:12	0.9667	270.605	129.450
2018/05/15	14:14:42	0.9750	270.607	129.447
2018/05/15	14:15:12	0.9833	270.610	129.443
2018/05/15	14:15:42	0.9917	270.618	129.443
2018/05/15	14:16:12	1.0000	270.621	129.445
2018/05/15	14:16:42	1.0083	270.642	129.450
2018/05/15	14:17:12	1.0167	270.641	129.445
2018/05/15	14:17:42	1.0250	270.659	129.445
2018/05/15	14:18:12	1.0333	270.697	129.450
2018/05/15	14:18:42	1.0417	270.699	129.445
2018/05/15	14:19:12	1.0500	270.702	129.447
2018/05/15	14:19:42	1.0583	270.705	129.448
2018/05/15	14:20:12	1.0667	270.708	129.448
2018/05/15	14:20:42	1.0750	270.711	129.448
2018/05/15	14:21:12	1.0833	270.736	129.445
2018/05/15	14:21:42	1.0917	270.768	129.445
2018/05/15	14:22:12	1.1000	270.773	129.457
2018/05/15	14:22:42	1.1083	270.774	129.445
2018/05/15	14:23:12	1.1167	270.777	129.448
2018/05/15	14:23:42	1.1250	270.780	129.448
2018/05/15	14:24:12	1.1333	270.797	129.450
2018/05/15	14:24:42	1.1417	270.799	129.441
2018/05/15	14:25:12	1.1500	270.803	129.452
2018/05/15	14:25:42	1.1583	222.770	129.189
2018/05/15	14:26:12	1.1667	153.442	127.416
POOH Gradient: 3000.000 ft				
2018/05/15	14:26:42	1.1750	82.560	124.169
2018/05/15	14:27:12	1.1833	81.448	121.071
2018/05/15	14:27:42	1.1917	81.443	120.105
2018/05/15	14:28:12	1.2000	81.481	119.575
2018/05/15	14:28:42	1.2083	81.465	119.205
2018/05/15	14:29:12	1.2167	81.484	118.906
2018/05/15	14:29:42	1.2250	81.478	118.645
2018/05/15	14:30:12	1.2333	81.491	118.427
2018/05/15	14:30:42	1.2417	81.501	118.209
2018/05/15	14:31:12	1.2500	81.502	118.009
2018/05/15	14:31:42	1.2583	81.513	117.819
2018/05/15	14:32:12	1.2667	81.351	117.599
2018/05/15	14:32:42	1.2750	81.091	116.874
POOH Gradient: 2500.000 ft				
2018/05/15	14:33:12	1.2833	80.758	115.732
2018/05/15	14:33:42	1.2917	80.615	114.467
2018/05/15	14:34:12	1.3000	80.653	113.916
2018/05/15	14:34:42	1.3083	80.652	113.544
2018/05/15	14:35:12	1.3167	80.659	113.211

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/15	14:35:42	1.3250	80.600	112.894
2018/05/15	14:36:12	1.3333	80.622	112.584
2018/05/15	14:36:42	1.3417	80.604	112.289
2018/05/15	14:37:12	1.3500	80.626	111.994
2018/05/15	14:37:42	1.3583	80.618	111.713
2018/05/15	14:38:12	1.3667	80.631	111.427
2018/05/15	14:38:42	1.3750	80.554	111.130
2018/05/15	14:39:12	1.3833	80.245	110.070
POOH Gradient: 2000.000 ft				
2018/05/15	14:39:42	1.3917	79.920	108.552
2018/05/15	14:40:12	1.4000	79.755	107.002
2018/05/15	14:40:42	1.4083	79.771	106.390
2018/05/15	14:41:12	1.4167	79.807	105.958
2018/05/15	14:41:42	1.4250	79.791	105.580
2018/05/15	14:42:12	1.4333	79.824	105.220
2018/05/15	14:42:42	1.4417	79.840	104.868
2018/05/15	14:43:12	1.4500	79.807	104.535
2018/05/15	14:43:42	1.4583	79.799	104.196
2018/05/15	14:44:12	1.4667	79.776	103.876
2018/05/15	14:44:42	1.4750	79.804	103.550
2018/05/15	14:45:12	1.4833	79.680	103.122
2018/05/15	14:45:42	1.4917	79.330	101.730
POOH Gradient: 1500.000 ft				
2018/05/15	14:46:12	1.5000	78.997	100.000
2018/05/15	14:46:42	1.5083	78.946	98.658
2018/05/15	14:47:12	1.5167	78.965	98.064
2018/05/15	14:47:42	1.5250	78.984	97.576
2018/05/15	14:48:12	1.5333	78.950	97.128
2018/05/15	14:48:42	1.5417	78.991	96.696
2018/05/15	14:49:12	1.5500	79.027	96.296
2018/05/15	14:49:42	1.5583	79.047	95.895
2018/05/15	14:50:12	1.5667	79.071	95.511
2018/05/15	14:50:42	1.5750	79.069	95.135
2018/05/15	14:51:12	1.5833	79.091	94.770
2018/05/15	14:51:42	1.5917	78.826	94.096
2018/05/15	14:52:12	1.6000	78.524	92.584
POOH Gradient: 1000.000 ft				
2018/05/15	14:52:42	1.6083	78.232	90.781
2018/05/15	14:53:12	1.6167	78.259	89.854
2018/05/15	14:53:42	1.6250	78.296	89.379
2018/05/15	14:54:12	1.6333	78.300	88.979
2018/05/15	14:54:42	1.6417	78.315	88.605
2018/05/15	14:55:12	1.6500	78.328	88.252
2018/05/15	14:55:42	1.6583	78.303	87.897
2018/05/15	14:56:12	1.6667	78.339	87.557
2018/05/15	14:56:42	1.6750	78.374	87.226
2018/05/15	14:57:12	1.6833	78.386	86.887
2018/05/15	14:57:42	1.6917	78.423	86.569
2018/05/15	14:58:12	1.7000	78.012	85.444
POOH Gradient: 500.000 ft				
2018/05/15	14:58:42	1.7083	77.576	83.691
2018/05/15	14:59:12	1.7167	77.499	82.128
2018/05/15	14:59:42	1.7250	77.513	81.437
2018/05/15	15:00:12	1.7333	77.529	80.910

Company Name Hilcorp
Well Name Allison Unit #2 POW
Type of Test POOH Static Gradient
Date(s) of Test 5/15/18



Date	Time	Cum. Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/15	15:00:42	1.7417	77.584	80.434
2018/05/15	15:01:12	1.7500	77.580	79.986
2018/05/15	15:01:42	1.7583	77.611	79.542
2018/05/15	15:02:12	1.7667	77.637	79.119
2018/05/15	15:02:42	1.7750	77.657	78.694
2018/05/15	15:03:12	1.7833	77.650	78.271
2018/05/15	15:03:42	1.7917	77.699	77.864
2018/05/15	15:04:12	1.8000	77.477	77.270
2018/05/15	15:04:42	1.8083	77.033	75.756
POOH Gradient: 0.000 ft				
2018/05/15	15:05:12	1.8167	76.803	73.938
2018/05/15	15:05:42	1.8250	76.731	73.236
2018/05/15	15:06:12	1.8333	76.737	73.171
2018/05/15	15:06:42	1.8417	76.731	73.234
2018/05/15	15:07:12	1.8500	76.722	73.330
2018/05/15	15:07:42	1.8583	76.771	73.447
2018/05/15	15:08:12	1.8667	76.764	73.560
2018/05/15	15:08:42	1.8750	76.752	73.675
2018/05/15	15:09:12	1.8833	76.770	73.800
2018/05/15	15:09:42	1.8917	76.819	73.902
2018/05/15	15:10:12	1.9000	76.807	74.010
2018/05/15	15:10:42	1.9083	76.783	74.214
2018/05/15	15:11:12	1.9167	72.717	74.509
2018/05/15	15:11:42	1.9250	-2.757	74.700
2018/05/15	15:12:12	1.9333	-2.789	74.853
2018/05/15	15:12:42	1.9417	-2.752	74.680
2018/05/15	15:13:12	1.9500	-2.860	75.184
2018/05/15	15:13:42	1.9583	-2.811	75.798