

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 #1 POW
Well Location	T32N, R6W, SEC 17
Field and Pool	BASIN FRUITLAND COAL
Status (Oil, Gas, Water, Injection)	OBSERVATION
Perforated Intervals	3064-3114
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	
Casing Flange (CF)	
KB-CF	
Ground Level	6547
Plug Back Total Depth	8082
Total Depth	8660
Production Casing	7 TO 3240
Production Tubing	2 3/8" TO 2989

TEST INFORMATION

Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/1/20
Dead-weight Gauge Tubing Pressure	0
Dead-weight Gauge Casing Pressure	20
Shut-in Date (Duration)	
Date / Time on Bottom	6/1/20 1258
Date / Time off Bottom	6/1/20 1358

Probe Serial Number	
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3000

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	1318.7 psig
Maximum Recorded Probe Temperature	113.5 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

Company Name HILCORP
Well Name ALLISON UNIT #1 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/1/20



PROBE INFORMATION

Probe Serial Number

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 #1 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/1/20



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK, TAGGED FILL @3004 WLM. RIH WITH BHP GAUGES TO 3000 WLM FOR 1 HOUR, THEN MADE 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
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Pressure vs. Depth

Probe Serial Number

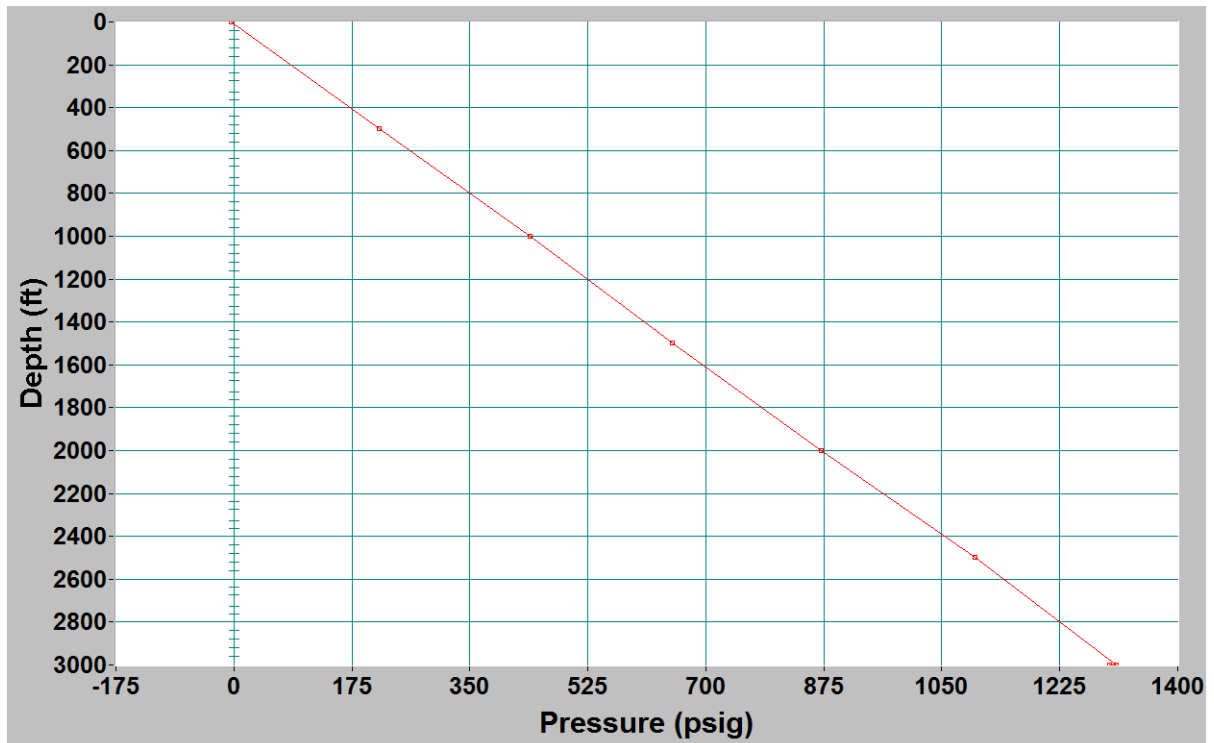
		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
		3000.000	1309.091	-	108.810	-
1258	1358	3000.000	1298.979	-	113.529	-
1359	1404	2500.000	1099.891	0.3982	106.140	0.0148
1405	1410	2000.000	871.794	0.4562	96.541	0.0192
1411	1416	1500.000	649.629	0.4443	86.027	0.0210
1417	1422	1000.000	438.629	0.4220	75.340	0.0214
1423	1428	500.000	216.201	0.4449	65.745	0.0192
1429	1434	0.000	-4.632	0.4417	59.265	0.0130

Extrapolated to MPP:

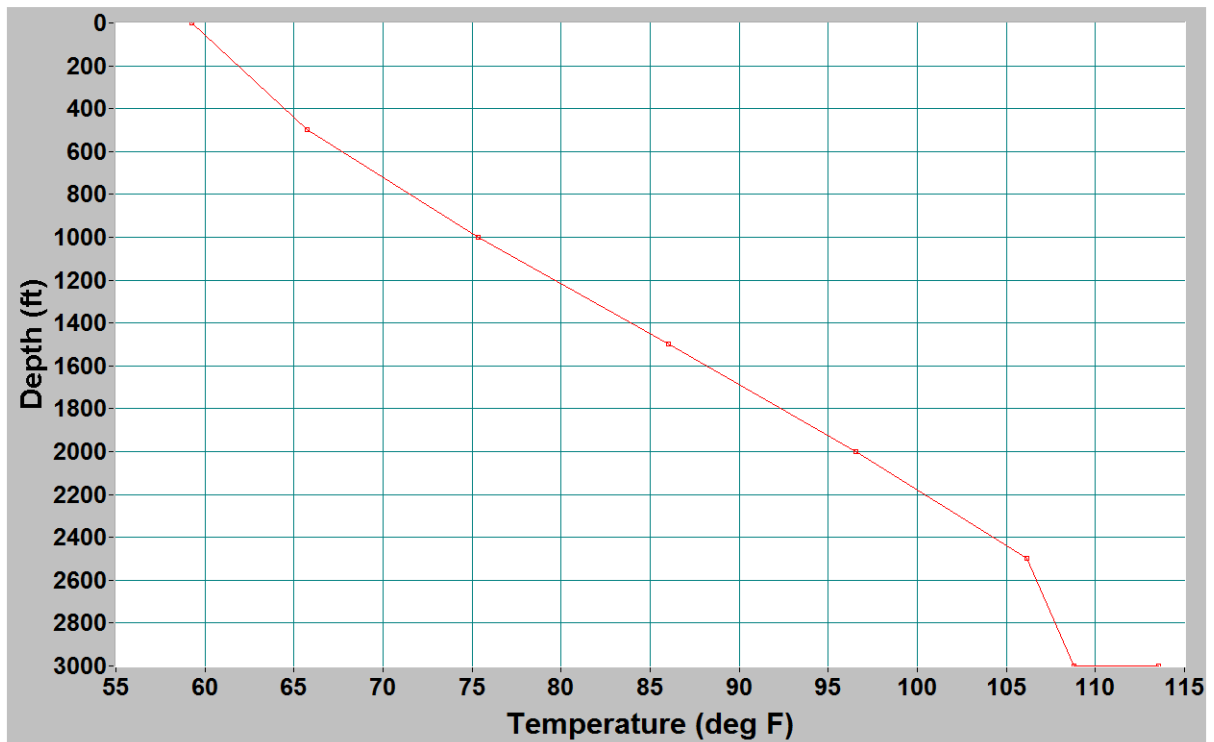
(ft)	(psig)	(deg F)
0.000		

Probe Serial Number

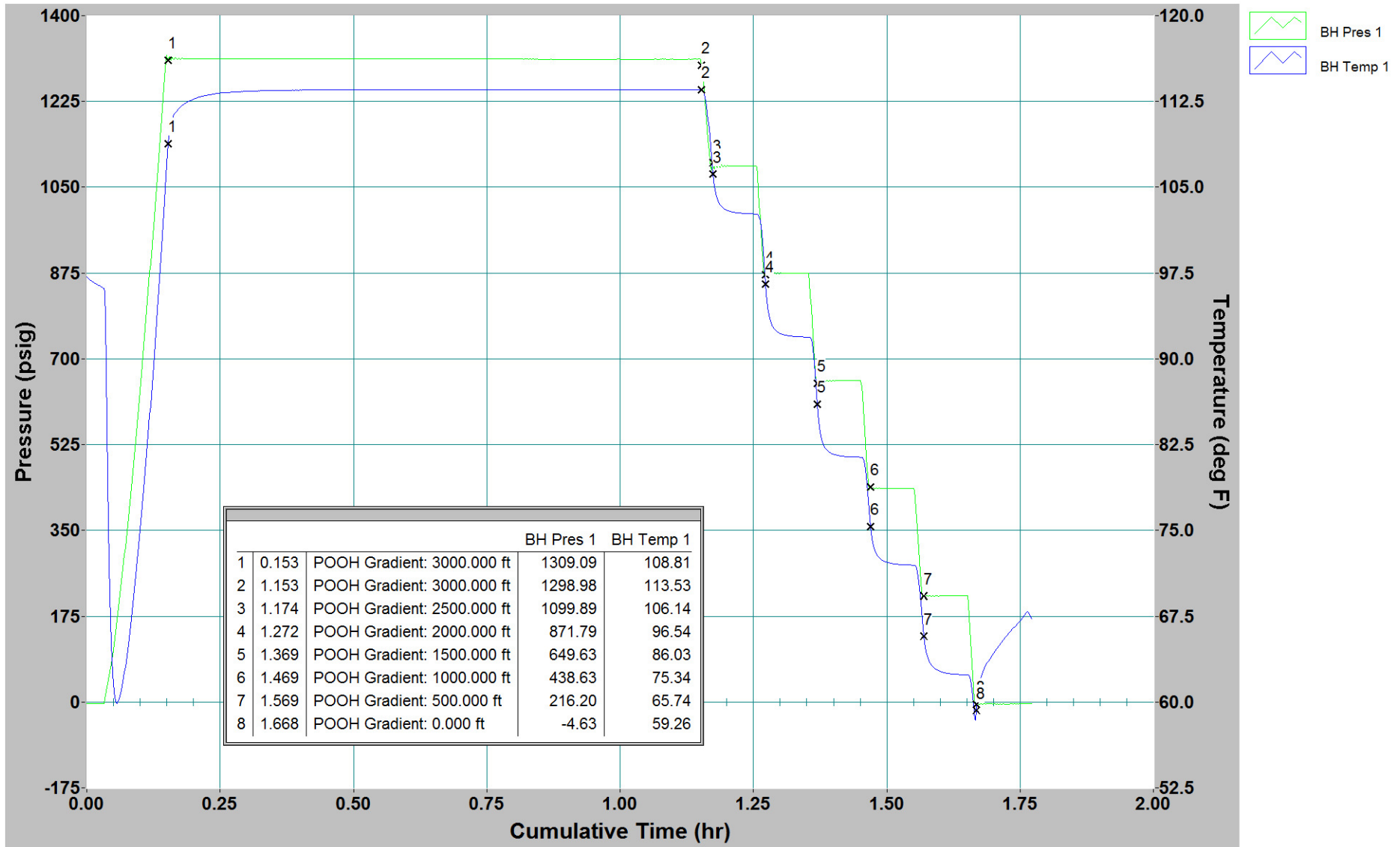
Depth vs. Pressure



Depth vs. Temperature



ALLISON 1 POW



Company Name HILCORP
Well Name ALLISON UNIT #1 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/1/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/01	12:49:25	0.0000	-3.794	97.142
2020/06/01	12:49:55	0.0083	-3.642	96.827
2020/06/01	12:50:25	0.0167	-3.603	96.579
2020/06/01	12:50:55	0.0250	-3.599	96.348
2020/06/01	12:51:25	0.0333	6.064	95.862
2020/06/01	12:51:55	0.0417	53.673	72.198
2020/06/01	12:52:25	0.0500	106.017	61.623
2020/06/01	12:52:55	0.0583	179.840	59.965
2020/06/01	12:53:25	0.0667	259.152	61.362
2020/06/01	12:53:55	0.0750	345.961	64.017
2020/06/01	12:54:25	0.0833	437.474	67.284
2020/06/01	12:54:55	0.0917	533.375	71.089
2020/06/01	12:55:25	0.1000	634.182	75.074
2020/06/01	12:55:55	0.1083	743.772	79.383
2020/06/01	12:56:25	0.1167	856.314	84.231
2020/06/01	12:56:55	0.1250	970.303	89.451
2020/06/01	12:57:25	0.1333	1088.451	95.169
2020/06/01	12:57:55	0.1417	1210.968	100.764
2020/06/01	12:58:25	0.1500	1318.732	106.993
POOH Gradient: 3000.000 ft				
2020/06/01	12:58:35	0.1528	1309.091	108.810
2020/06/01	12:58:55	0.1583	1309.145	110.620
2020/06/01	12:59:25	0.1667	1314.222	111.528
2020/06/01	12:59:55	0.1750	1311.120	112.006
2020/06/01	13:00:25	0.1833	1312.623	112.318
2020/06/01	13:00:55	0.1917	1311.940	112.518
2020/06/01	13:01:25	0.2000	1311.976	112.680
2020/06/01	13:01:55	0.2083	1312.057	112.840
2020/06/01	13:02:25	0.2167	1311.924	112.955
2020/06/01	13:02:55	0.2250	1311.938	113.043
2020/06/01	13:03:25	0.2333	1311.862	113.108
2020/06/01	13:03:55	0.2417	1311.875	113.175
2020/06/01	13:04:25	0.2500	1311.785	113.227
2020/06/01	13:04:55	0.2583	1311.790	113.268
2020/06/01	13:05:25	0.2667	1311.732	113.297
2020/06/01	13:05:55	0.2750	1311.704	113.320
2020/06/01	13:06:25	0.2833	1311.652	113.346
2020/06/01	13:06:55	0.2917	1311.635	113.362
2020/06/01	13:07:25	0.3000	1311.646	113.394
2020/06/01	13:07:55	0.3083	1311.631	113.405
2020/06/01	13:08:25	0.3167	1311.589	113.418
2020/06/01	13:08:55	0.3250	1311.584	113.427
2020/06/01	13:09:25	0.3333	1311.582	113.439
2020/06/01	13:09:55	0.3417	1311.579	113.448
2020/06/01	13:10:25	0.3500	1311.546	113.452
2020/06/01	13:10:55	0.3583	1311.552	113.468
2020/06/01	13:11:25	0.3667	1311.533	113.466
2020/06/01	13:11:55	0.3750	1311.529	113.479
2020/06/01	13:12:25	0.3833	1311.514	113.484
2020/06/01	13:12:55	0.3917	1311.502	113.490
2020/06/01	13:13:25	0.4000	1311.488	113.491
2020/06/01	13:13:55	0.4083	1311.470	113.490
2020/06/01	13:14:25	0.4167	1311.475	113.500
2020/06/01	13:14:55	0.4250	1311.467	113.504

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/01	13:15:25	0.4333	1311.462	113.508
2020/06/01	13:15:55	0.4417	1311.425	113.509
2020/06/01	13:16:25	0.4500	1311.431	113.517
2020/06/01	13:16:55	0.4583	1311.427	113.515
2020/06/01	13:17:25	0.4667	1311.422	113.513
2020/06/01	13:17:55	0.4750	1311.427	113.518
2020/06/01	13:18:25	0.4833	1311.422	113.520
2020/06/01	13:18:55	0.4917	1311.415	113.520
2020/06/01	13:19:25	0.5000	1311.406	113.524
2020/06/01	13:19:55	0.5083	1311.397	113.517
2020/06/01	13:20:25	0.5167	1311.411	113.518
2020/06/01	13:20:55	0.5250	1311.402	113.515
2020/06/01	13:21:25	0.5333	1311.406	113.520
2020/06/01	13:21:55	0.5417	1311.406	113.520
2020/06/01	13:22:25	0.5500	1311.406	113.518
2020/06/01	13:22:55	0.5583	1311.411	113.524
2020/06/01	13:23:25	0.5667	1311.409	113.527
2020/06/01	13:23:55	0.5750	1311.395	113.522
2020/06/01	13:24:25	0.5833	1311.397	113.524
2020/06/01	13:24:55	0.5917	1311.384	113.518
2020/06/01	13:25:25	0.6000	1311.383	113.522
2020/06/01	13:25:55	0.6083	1311.387	113.526
2020/06/01	13:26:25	0.6167	1311.374	113.524
2020/06/01	13:26:55	0.6250	1311.384	113.526
2020/06/01	13:27:25	0.6333	1311.371	113.524
2020/06/01	13:27:55	0.6417	1311.357	113.522
2020/06/01	13:28:25	0.6500	1311.351	113.526
2020/06/01	13:28:55	0.6583	1311.346	113.526
2020/06/01	13:29:25	0.6667	1311.343	113.531
2020/06/01	13:29:55	0.6750	1311.336	113.529
2020/06/01	13:30:25	0.6833	1311.325	113.529
2020/06/01	13:30:55	0.6917	1311.315	113.526
2020/06/01	13:31:25	0.7000	1311.312	113.533
2020/06/01	13:31:55	0.7083	1311.300	113.533
2020/06/01	13:32:25	0.7167	1311.307	113.536
2020/06/01	13:32:55	0.7250	1311.283	113.531
2020/06/01	13:33:25	0.7333	1311.281	113.536
2020/06/01	13:33:55	0.7417	1311.273	113.533
2020/06/01	13:34:25	0.7500	1311.254	113.529
2020/06/01	13:34:55	0.7583	1311.263	113.535
2020/06/01	13:35:25	0.7667	1311.257	113.533
2020/06/01	13:35:55	0.7750	1311.249	113.536
2020/06/01	13:36:25	0.7833	1311.237	113.538
2020/06/01	13:36:55	0.7917	1311.227	113.531
2020/06/01	13:37:25	0.8000	1311.225	113.538
2020/06/01	13:37:55	0.8083	1311.218	113.533
2020/06/01	13:38:25	0.8167	1311.213	113.535
2020/06/01	13:38:55	0.8250	1311.202	113.529
2020/06/01	13:39:25	0.8333	1311.194	113.527
2020/06/01	13:39:55	0.8417	1311.190	113.526
2020/06/01	13:40:25	0.8500	1311.184	113.526
2020/06/01	13:40:55	0.8583	1311.181	113.526
2020/06/01	13:41:25	0.8667	1311.190	113.527
2020/06/01	13:41:55	0.8750	1311.191	113.526

Company Name HILCORP
Well Name ALLISON UNIT #1 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/1/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/01	13:42:25	0.8833	1311.179	113.524
2020/06/01	13:42:55	0.8917	1311.185	113.526
2020/06/01	13:43:25	0.9000	1311.172	113.518
2020/06/01	13:43:55	0.9083	1311.176	113.526
2020/06/01	13:44:25	0.9167	1311.176	113.522
2020/06/01	13:44:55	0.9250	1311.179	113.526
2020/06/01	13:45:25	0.9333	1311.163	113.520
2020/06/01	13:45:55	0.9417	1311.172	113.522
2020/06/01	13:46:25	0.9500	1311.180	113.526
2020/06/01	13:46:55	0.9583	1311.180	113.524
2020/06/01	13:47:25	0.9667	1311.184	113.522
2020/06/01	13:47:55	0.9750	1311.191	113.527
2020/06/01	13:48:25	0.9833	1311.179	113.522
2020/06/01	13:48:55	0.9917	1311.182	113.526
2020/06/01	13:49:25	1.0000	1311.193	113.518
2020/06/01	13:49:55	1.0083	1311.185	113.520
2020/06/01	13:50:25	1.0167	1311.182	113.522
2020/06/01	13:50:55	1.0250	1311.169	113.520
2020/06/01	13:51:25	1.0333	1311.169	113.520
2020/06/01	13:51:55	1.0417	1311.173	113.522
2020/06/01	13:52:25	1.0500	1311.181	113.526
2020/06/01	13:52:55	1.0583	1311.189	113.527
2020/06/01	13:53:25	1.0667	1311.199	113.529
2020/06/01	13:53:55	1.0750	1311.200	113.529
2020/06/01	13:54:25	1.0833	1311.196	113.529
2020/06/01	13:54:55	1.0917	1311.194	113.531
2020/06/01	13:55:25	1.1000	1311.190	113.527
2020/06/01	13:55:55	1.1083	1311.195	113.535
2020/06/01	13:56:25	1.1167	1311.192	113.536
2020/06/01	13:56:55	1.1250	1311.185	113.529
2020/06/01	13:57:25	1.1333	1311.193	113.529
2020/06/01	13:57:55	1.1417	1311.200	113.535
2020/06/01	13:58:25	1.1500	1311.201	113.535
POOH Gradient: 3000.000 ft				
2020/06/01	13:58:35	1.1528	1298.979	113.529
2020/06/01	13:58:55	1.1583	1246.699	113.153
2020/06/01	13:59:25	1.1667	1124.342	110.158
POOH Gradient: 2500.000 ft				
2020/06/01	13:59:50	1.1736	1099.891	106.140
2020/06/01	13:59:55	1.1750	1089.439	105.566
2020/06/01	14:00:25	1.1833	1094.608	103.851
2020/06/01	14:00:55	1.1917	1093.063	103.255
2020/06/01	14:01:25	1.2000	1093.277	102.997
2020/06/01	14:01:55	1.2083	1093.563	102.861
2020/06/01	14:02:25	1.2167	1093.145	102.789
2020/06/01	14:02:55	1.2250	1093.372	102.738
2020/06/01	14:03:25	1.2333	1093.226	102.708
2020/06/01	14:03:55	1.2417	1093.271	102.688
2020/06/01	14:04:25	1.2500	1093.255	102.673
2020/06/01	14:04:55	1.2583	1076.698	102.652
2020/06/01	14:05:25	1.2667	906.218	100.270
POOH Gradient: 2000.000 ft				
2020/06/01	14:05:45	1.2722	871.794	96.541
2020/06/01	14:05:55	1.2750	873.527	95.072

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/01	14:06:25	1.2833	874.641	93.128
2020/06/01	14:06:55	1.2917	874.964	92.502
2020/06/01	14:07:25	1.3000	874.336	92.223
2020/06/01	14:07:55	1.3083	874.788	92.089
2020/06/01	14:08:25	1.3167	874.356	92.012
2020/06/01	14:08:55	1.3250	874.576	91.960
2020/06/01	14:09:25	1.3333	874.393	91.940
2020/06/01	14:09:55	1.3417	874.454	91.917
2020/06/01	14:10:25	1.3500	874.447	91.908
2020/06/01	14:10:55	1.3583	805.814	91.681
2020/06/01	14:11:25	1.3667	654.833	87.874
POOH Gradient: 1500.000 ft				
2020/06/01	14:11:35	1.3694	649.629	86.027
2020/06/01	14:11:55	1.3750	652.914	83.610
2020/06/01	14:12:25	1.3833	656.868	82.324
2020/06/01	14:12:55	1.3917	654.516	81.865
2020/06/01	14:13:25	1.4000	655.867	81.662
2020/06/01	14:13:55	1.4083	655.117	81.550
2020/06/01	14:14:25	1.4167	655.427	81.487
2020/06/01	14:14:55	1.4250	655.310	81.450
2020/06/01	14:15:25	1.4333	655.304	81.428
2020/06/01	14:15:55	1.4417	655.284	81.414
2020/06/01	14:16:25	1.4500	655.268	81.403
2020/06/01	14:16:55	1.4583	553.766	80.726
2020/06/01	14:17:25	1.4667	432.802	76.795
POOH Gradient: 1000.000 ft				
2020/06/01	14:17:35	1.4694	438.629	75.340
2020/06/01	14:17:55	1.4750	437.142	73.686
2020/06/01	14:18:25	1.4833	435.049	72.772
2020/06/01	14:18:55	1.4917	436.198	72.401
2020/06/01	14:19:25	1.5000	435.685	72.221
2020/06/01	14:19:55	1.5083	435.715	72.113
2020/06/01	14:20:25	1.5167	435.763	72.055
2020/06/01	14:20:55	1.5250	435.717	72.021
2020/06/01	14:21:25	1.5333	435.757	71.994
2020/06/01	14:21:55	1.5417	435.753	71.978
2020/06/01	14:22:25	1.5500	435.746	71.962
2020/06/01	14:22:55	1.5583	331.857	71.002
2020/06/01	14:23:25	1.5667	214.883	67.208
POOH Gradient: 500.000 ft				
2020/06/01	14:23:35	1.5694	216.201	65.745
2020/06/01	14:23:55	1.5750	216.640	64.209
2020/06/01	14:24:25	1.5833	215.993	63.293
2020/06/01	14:24:55	1.5917	216.222	62.888
2020/06/01	14:25:25	1.6000	216.270	62.679
2020/06/01	14:25:55	1.6083	216.253	62.559
2020/06/01	14:26:25	1.6167	216.243	62.487
2020/06/01	14:26:55	1.6250	216.227	62.442
2020/06/01	14:27:25	1.6333	216.220	62.411
2020/06/01	14:27:55	1.6417	216.212	62.398
2020/06/01	14:28:25	1.6500	216.196	62.375
2020/06/01	14:28:55	1.6583	101.787	61.574
2020/06/01	14:29:25	1.6667	-4.486	58.392
POOH Gradient: 0.000 ft				

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Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/1/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/01	14:29:30	1.6681	-4.632	59.265
2020/06/01	14:29:55	1.6750	-4.164	61.840
2020/06/01	14:30:25	1.6833	-3.901	62.922
2020/06/01	14:30:55	1.6917	-3.961	63.644
2020/06/01	14:31:25	1.7000	-3.965	64.247
2020/06/01	14:31:55	1.7083	-3.997	64.792
2020/06/01	14:32:25	1.7167	-4.017	65.293
2020/06/01	14:32:55	1.7250	-4.025	65.768
2020/06/01	14:33:25	1.7333	-3.971	66.223
2020/06/01	14:33:55	1.7417	-3.999	66.672
2020/06/01	14:34:25	1.7500	-3.973	67.102
2020/06/01	14:34:55	1.7583	-3.982	67.568
2020/06/01	14:35:25	1.7667	-3.904	67.771