

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 31-6 UNIT #225 POW
Well Location	T31N, R6W, SEC 31
Field and Pool	BASIN FRUITLAND COAL
Status (Oil, Gas, Water, Injection)	OBSERVATION
Perforated Intervals	2957-3007
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	13
Casing Flange (CF)	
KB-CF	
Ground Level	6207
Plug Back Total Depth	3053
Total Depth	3053
Production Casing	5 1/2 TO 3052
Production Tubing	2 3/8 TO 2926

TEST INFORMATION

Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/4/20
Dead-weight Gauge Tubing Pressure	85
Dead-weight Gauge Casing Pressure	0
Shut-in Date (Duration)	
Date / Time on Bottom	06/04/20 @0841
Date / Time off Bottom	06/04/20 @0941

Probe Serial Number	
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	3021

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	118.2 psig
Maximum Recorded Probe Temperature	114.3 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT #225 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



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	SAN JUAN 31-6 UNIT #225 POW
Type of Test	POOH STATIC GRADIENT
Date(s) of Test	6/4/20



COMMENTS

Reported By

EXPERT DOWNHOLE SERVICES, INC.

RIH WITH 1.50 IMPRESSION BLOCK, TAGGED FILL @3025 WLM. RIH WITH BHP GAUGE TO 3021 WLM FOR 1 HOUR, THEN POOH MAKING 5 MINUTE STOPS PER REQUEST.

Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT #225 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Pressure vs. Depth

Probe Serial Number

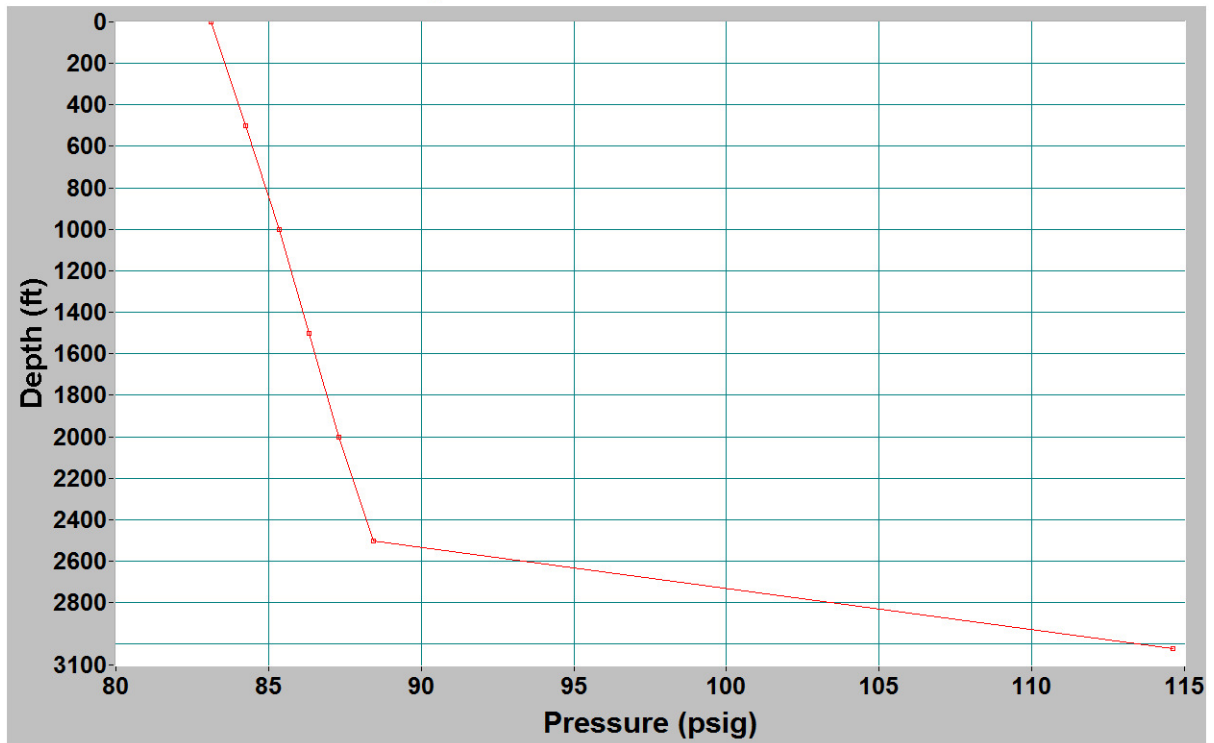
		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
0841	0941	3021.000	114.616	-	97.929	-
0943	0948	2500.000	88.426	0.0503	111.628	-0.0263
0949	0954	2000.000	87.291	0.0023	105.498	0.0123
0956	1001	1500.000	86.335	0.0019	98.456	0.0141
1002	1007	1000.000	85.341	0.0020	90.131	0.0166
1008	1013	500.000	84.241	0.0022	82.002	0.0163
1015	1020	0.000	83.117	0.0022	74.057	0.0159

Extrapolated to MPP:

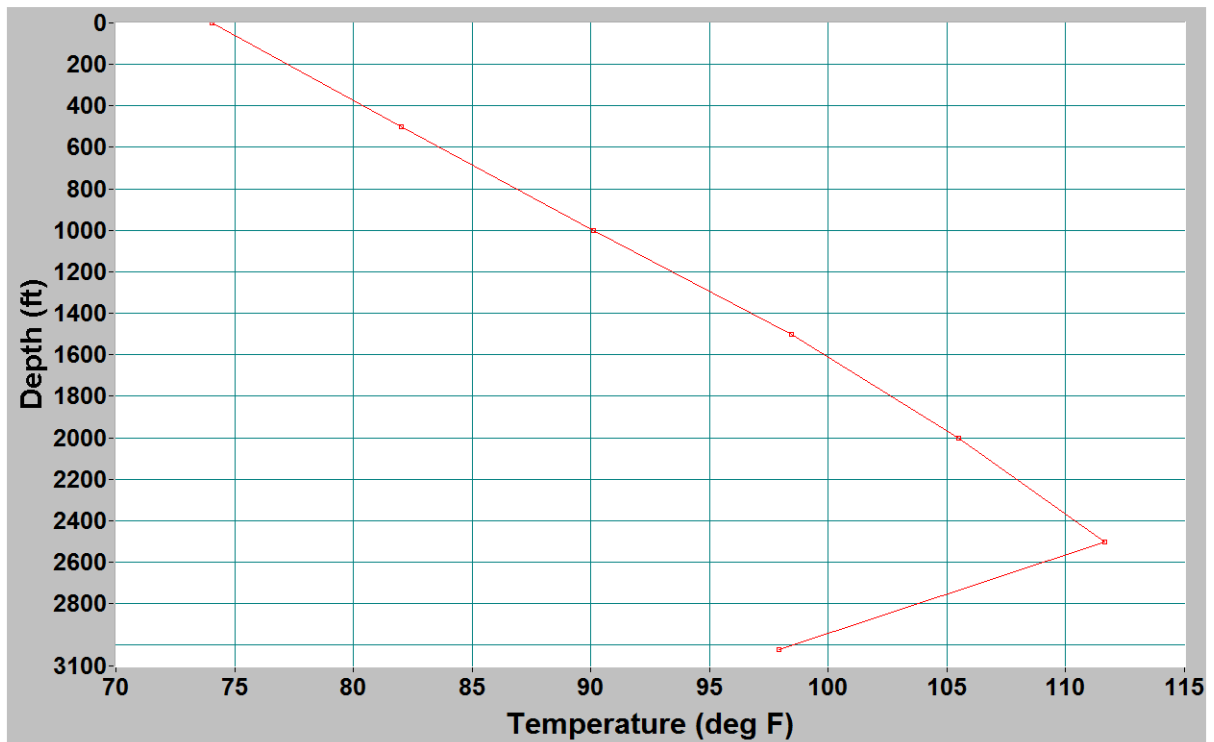
(ft)	(psig)	(deg F)
0.000		

Probe Serial Number

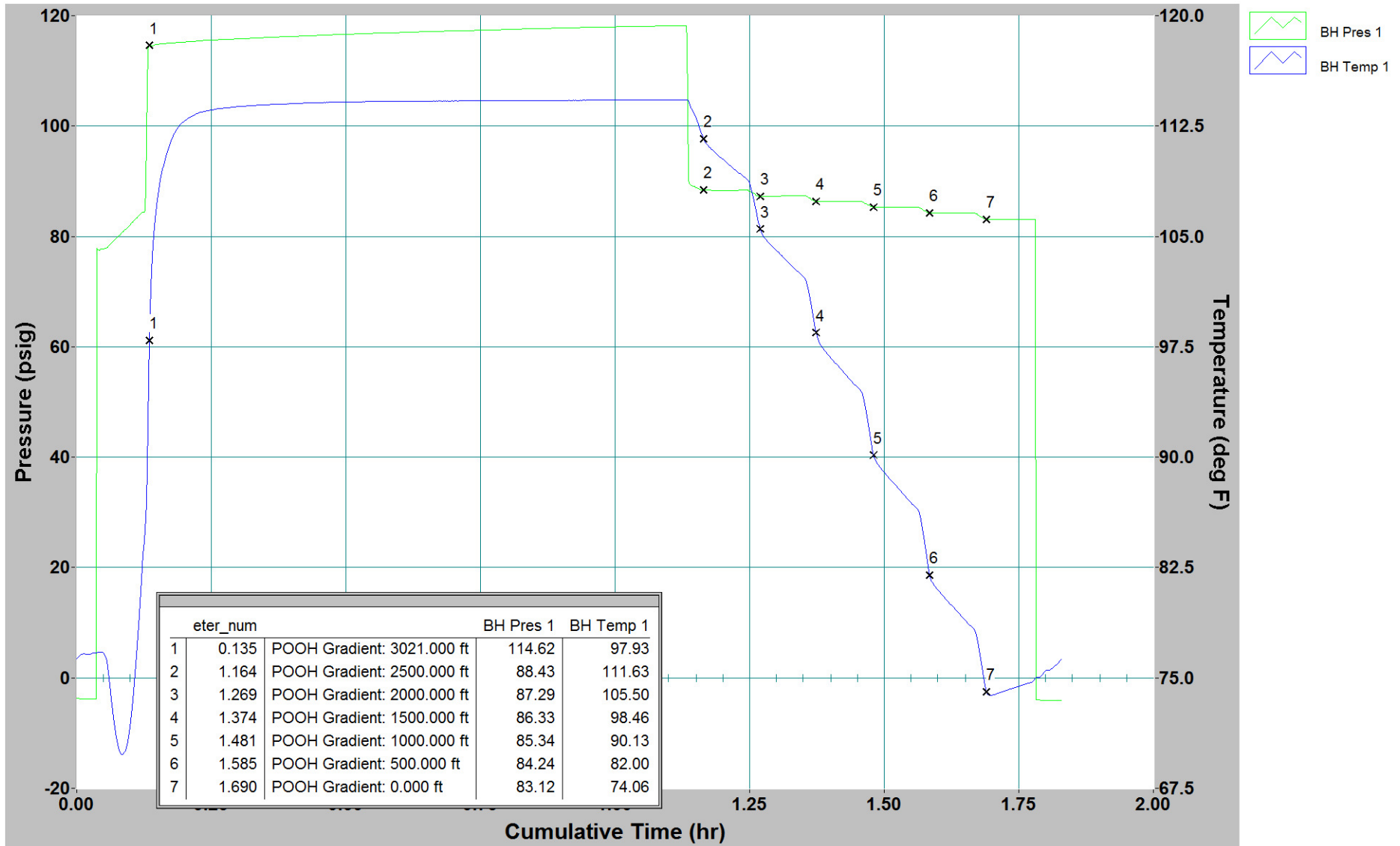
Depth vs. Pressure



Depth vs. Temperature



SAN JUAN 31-6 #225 POW 2020



Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT #225 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	08:33:45	0.0000	-3.661	76.300
2020/06/04	08:34:15	0.0083	-3.783	76.588
2020/06/04	08:34:45	0.0167	-3.779	76.622
2020/06/04	08:35:15	0.0250	-3.777	76.609
2020/06/04	08:35:45	0.0333	-3.792	76.703
2020/06/04	08:36:15	0.0417	77.501	76.741
2020/06/04	08:36:45	0.0500	77.675	76.705
2020/06/04	08:37:15	0.0583	78.255	75.367
2020/06/04	08:37:45	0.0667	79.068	72.734
2020/06/04	08:38:15	0.0750	79.752	70.725
2020/06/04	08:38:45	0.0833	80.588	69.804
2020/06/04	08:39:15	0.0917	81.327	70.228
2020/06/04	08:39:45	0.1000	82.166	72.075
2020/06/04	08:40:15	0.1083	83.071	75.267
2020/06/04	08:40:45	0.1167	83.854	79.299
2020/06/04	08:41:15	0.1250	84.443	84.265
2020/06/04	08:41:45	0.1333	114.616	95.284
POOH Gradient: 3021.000 ft				
2020/06/04	08:41:50	0.1347	114.616	97.929
2020/06/04	08:42:15	0.1417	114.568	104.410
2020/06/04	08:42:45	0.1500	114.805	107.461
2020/06/04	08:43:15	0.1583	114.864	109.333
2020/06/04	08:43:45	0.1667	114.991	110.586
2020/06/04	08:44:15	0.1750	115.072	111.474
2020/06/04	08:44:45	0.1833	115.074	112.095
2020/06/04	08:45:15	0.1917	115.126	112.534
2020/06/04	08:45:45	0.2000	115.189	112.838
2020/06/04	08:46:15	0.2083	115.296	113.067
2020/06/04	08:46:45	0.2167	115.357	113.221
2020/06/04	08:47:15	0.2250	115.418	113.367
2020/06/04	08:47:45	0.2333	115.483	113.461
2020/06/04	08:48:15	0.2417	115.548	113.522
2020/06/04	08:48:45	0.2500	115.597	113.587
2020/06/04	08:49:15	0.2583	115.619	113.635
2020/06/04	08:49:45	0.2667	115.638	113.686
2020/06/04	08:50:15	0.2750	115.674	113.731
2020/06/04	08:50:45	0.2833	115.687	113.758
2020/06/04	08:51:15	0.2917	115.756	113.787
2020/06/04	08:51:45	0.3000	115.801	113.819
2020/06/04	08:52:15	0.3083	115.840	113.848
2020/06/04	08:52:45	0.3167	115.883	113.869
2020/06/04	08:53:15	0.3250	115.899	113.882
2020/06/04	08:53:45	0.3333	115.965	113.904
2020/06/04	08:54:15	0.3417	115.981	113.916
2020/06/04	08:54:45	0.3500	116.027	113.940
2020/06/04	08:55:15	0.3583	116.043	113.952
2020/06/04	08:55:45	0.3667	116.095	113.972
2020/06/04	08:56:15	0.3750	116.125	113.977
2020/06/04	08:56:45	0.3833	116.167	113.997
2020/06/04	08:57:15	0.3917	116.193	114.008
2020/06/04	08:57:45	0.4000	116.226	114.024
2020/06/04	08:58:15	0.4083	116.262	114.035
2020/06/04	08:58:45	0.4167	116.305	114.046
2020/06/04	08:59:15	0.4250	116.318	114.057

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	08:59:45	0.4333	116.354	114.073
2020/06/04	09:00:15	0.4417	116.403	114.087
2020/06/04	09:00:45	0.4500	116.416	114.089
2020/06/04	09:01:15	0.4583	116.465	114.098
2020/06/04	09:01:45	0.4667	116.481	114.103
2020/06/04	09:02:15	0.4750	116.521	114.121
2020/06/04	09:02:45	0.4833	116.583	114.114
2020/06/04	09:03:15	0.4917	116.596	114.125
2020/06/04	09:03:45	0.5000	116.612	114.127
2020/06/04	09:04:15	0.5083	116.635	114.130
2020/06/04	09:04:45	0.5167	116.701	114.141
2020/06/04	09:05:15	0.5250	116.704	114.141
2020/06/04	09:05:45	0.5333	116.720	114.148
2020/06/04	09:06:15	0.5417	116.750	114.156
2020/06/04	09:06:45	0.5500	116.770	114.159
2020/06/04	09:07:15	0.5583	116.822	114.163
2020/06/04	09:07:45	0.5667	116.838	114.172
2020/06/04	09:08:15	0.5750	116.897	114.175
2020/06/04	09:08:45	0.5833	116.904	114.177
2020/06/04	09:09:15	0.5917	116.917	114.181
2020/06/04	09:09:45	0.6000	116.943	114.179
2020/06/04	09:10:15	0.6083	116.953	114.184
2020/06/04	09:10:45	0.6167	117.002	114.183
2020/06/04	09:11:15	0.6250	117.019	114.186
2020/06/04	09:11:45	0.6333	117.041	114.195
2020/06/04	09:12:15	0.6417	117.091	114.192
2020/06/04	09:12:45	0.6500	117.104	114.193
2020/06/04	09:13:15	0.6583	117.150	114.193
2020/06/04	09:13:45	0.6667	117.166	114.199
2020/06/04	09:14:15	0.6750	117.182	114.199
2020/06/04	09:14:45	0.6833	117.196	114.199
2020/06/04	09:15:15	0.6917	117.215	114.201
2020/06/04	09:15:45	0.7000	117.238	114.201
2020/06/04	09:16:15	0.7083	117.255	114.201
2020/06/04	09:16:45	0.7167	117.278	114.208
2020/06/04	09:17:15	0.7250	117.297	114.213
2020/06/04	09:17:45	0.7333	117.313	114.210
2020/06/04	09:18:15	0.7417	117.333	114.215
2020/06/04	09:18:45	0.7500	117.363	114.222
2020/06/04	09:19:15	0.7583	117.382	114.220
2020/06/04	09:19:45	0.7667	117.408	114.219
2020/06/04	09:20:15	0.7750	117.432	114.222
2020/06/04	09:20:45	0.7833	117.441	114.229
2020/06/04	09:21:15	0.7917	117.520	114.231
2020/06/04	09:21:45	0.8000	117.530	114.231
2020/06/04	09:22:15	0.8083	117.543	114.237
2020/06/04	09:22:45	0.8167	117.559	114.233
2020/06/04	09:23:15	0.8250	117.582	114.231
2020/06/04	09:23:45	0.8333	117.602	114.238
2020/06/04	09:24:15	0.8417	117.618	114.237
2020/06/04	09:24:45	0.8500	117.635	114.240
2020/06/04	09:25:15	0.8583	117.664	114.240
2020/06/04	09:25:45	0.8667	117.681	114.242
2020/06/04	09:26:15	0.8750	117.703	114.247

Company Name HILCORP
Well Name SAN JUAN 31-6 UNIT #225 POW
Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	09:26:45	0.8833	117.753	114.244
2020/06/04	09:27:15	0.8917	117.759	114.244
2020/06/04	09:27:45	0.9000	117.776	114.249
2020/06/04	09:28:15	0.9083	117.785	114.249
2020/06/04	09:28:45	0.9167	117.795	114.246
2020/06/04	09:29:15	0.9250	117.825	114.242
2020/06/04	09:29:45	0.9333	117.841	114.249
2020/06/04	09:30:15	0.9417	117.854	114.255
2020/06/04	09:30:45	0.9500	117.871	114.253
2020/06/04	09:31:15	0.9583	117.890	114.258
2020/06/04	09:31:45	0.9667	117.910	114.251
2020/06/04	09:32:15	0.9750	117.933	114.264
2020/06/04	09:32:45	0.9833	117.949	114.264
2020/06/04	09:33:15	0.9917	117.962	114.276
2020/06/04	09:33:45	1.0000	117.972	114.267
2020/06/04	09:34:15	1.0083	117.992	114.265
2020/06/04	09:34:45	1.0167	118.012	114.264
2020/06/04	09:35:15	1.0250	118.025	114.265
2020/06/04	09:35:45	1.0333	118.041	114.274
2020/06/04	09:36:15	1.0417	118.058	114.278
2020/06/04	09:36:45	1.0500	118.064	114.283
2020/06/04	09:37:15	1.0583	118.077	114.276
2020/06/04	09:37:45	1.0667	118.097	114.289
2020/06/04	09:38:15	1.0750	118.110	114.287
2020/06/04	09:38:45	1.0833	118.126	114.291
2020/06/04	09:39:15	1.0917	118.143	114.287
2020/06/04	09:39:45	1.1000	118.159	114.282
2020/06/04	09:40:15	1.1083	118.175	114.285
2020/06/04	09:40:45	1.1167	118.189	114.283
2020/06/04	09:41:15	1.1250	118.199	114.291
2020/06/04	09:41:45	1.1333	115.677	114.282
2020/06/04	09:42:15	1.1417	89.243	113.709
2020/06/04	09:42:45	1.1500	88.782	113.128
2020/06/04	09:43:15	1.1583	88.514	112.278
POOH Gradient: 2500.000 ft				
2020/06/04	09:43:35	1.1639	88.426	111.628
2020/06/04	09:43:45	1.1667	88.372	111.429
2020/06/04	09:44:15	1.1750	88.367	111.069
2020/06/04	09:44:45	1.1833	88.352	110.791
2020/06/04	09:45:15	1.1917	88.348	110.509
2020/06/04	09:45:45	1.2000	88.345	110.242
2020/06/04	09:46:15	1.2083	88.343	109.978
2020/06/04	09:46:45	1.2167	88.347	109.722
2020/06/04	09:47:15	1.2250	88.351	109.468
2020/06/04	09:47:45	1.2333	88.364	109.225
2020/06/04	09:48:15	1.2417	88.374	108.984
2020/06/04	09:48:45	1.2500	88.201	108.599
2020/06/04	09:49:15	1.2583	87.817	107.427
2020/06/04	09:49:45	1.2667	87.304	105.967
POOH Gradient: 2000.000 ft				
2020/06/04	09:49:55	1.2694	87.291	105.498
2020/06/04	09:50:15	1.2750	87.279	105.017
2020/06/04	09:50:45	1.2833	87.288	104.661
2020/06/04	09:51:15	1.2917	87.298	104.347

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	09:51:45	1.3000	87.305	104.031
2020/06/04	09:52:15	1.3083	87.318	103.730
2020/06/04	09:52:45	1.3167	87.335	103.420
2020/06/04	09:53:15	1.3250	87.354	103.127
2020/06/04	09:53:45	1.3333	87.357	102.830
2020/06/04	09:54:15	1.3417	87.369	102.538
2020/06/04	09:54:45	1.3500	87.391	102.258
2020/06/04	09:55:15	1.3583	87.123	101.500
2020/06/04	09:55:45	1.3667	86.605	99.928
POOH Gradient: 1500.000 ft				
2020/06/04	09:56:10	1.3736	86.335	98.456
2020/06/04	09:56:15	1.3750	86.320	98.211
2020/06/04	09:56:45	1.3833	86.331	97.522
2020/06/04	09:57:15	1.3917	86.316	97.140
2020/06/04	09:57:45	1.4000	86.318	96.793
2020/06/04	09:58:15	1.4083	86.321	96.440
2020/06/04	09:58:45	1.4167	86.330	96.091
2020/06/04	09:59:15	1.4250	86.338	95.745
2020/06/04	09:59:45	1.4333	86.350	95.412
2020/06/04	10:00:15	1.4417	86.368	95.077
2020/06/04	10:00:45	1.4500	86.379	94.746
2020/06/04	10:01:15	1.4583	86.349	94.397
2020/06/04	10:01:45	1.4667	85.941	93.067
2020/06/04	10:02:15	1.4750	85.430	91.278
POOH Gradient: 1000.000 ft				
2020/06/04	10:02:35	1.4806	85.341	90.131
2020/06/04	10:02:45	1.4833	85.348	89.821
2020/06/04	10:03:15	1.4917	85.294	89.330
2020/06/04	10:03:45	1.5000	85.294	88.977
2020/06/04	10:04:15	1.5083	85.296	88.624
2020/06/04	10:04:45	1.5167	85.293	88.273
2020/06/04	10:05:15	1.5250	85.308	87.924
2020/06/04	10:05:45	1.5333	85.313	87.582
2020/06/04	10:06:15	1.5417	85.332	87.238
2020/06/04	10:06:45	1.5500	85.333	86.904
2020/06/04	10:07:15	1.5583	85.348	86.576
2020/06/04	10:07:45	1.5667	85.183	85.986
2020/06/04	10:08:15	1.5750	84.658	84.243
2020/06/04	10:08:45	1.5833	84.233	82.267
POOH Gradient: 500.000 ft				
2020/06/04	10:08:50	1.5847	84.241	82.002
2020/06/04	10:09:15	1.5917	84.225	81.347
2020/06/04	10:09:45	1.6000	84.223	80.960
2020/06/04	10:10:15	1.6083	84.219	80.618
2020/06/04	10:10:45	1.6167	84.221	80.276
2020/06/04	10:11:15	1.6250	84.219	79.936
2020/06/04	10:11:45	1.6333	84.227	79.601
2020/06/04	10:12:15	1.6417	84.235	79.268
2020/06/04	10:12:45	1.6500	84.236	78.939
2020/06/04	10:13:15	1.6583	84.250	78.616
2020/06/04	10:13:45	1.6667	84.260	78.298
2020/06/04	10:14:15	1.6750	83.849	77.176
2020/06/04	10:14:45	1.6833	83.356	75.400
POOH Gradient: 0.000 ft				

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Type of Test POOH STATIC GRADIENT
Date(s) of Test 6/4/20



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2020/06/04	10:15:10	1.6903	83.117	74.057
2020/06/04	10:15:15	1.6917	83.065	73.949
2020/06/04	10:15:45	1.7000	83.058	73.828
2020/06/04	10:16:15	1.7083	83.045	73.913
2020/06/04	10:16:45	1.7167	83.053	74.017
2020/06/04	10:17:15	1.7250	83.055	74.125
2020/06/04	10:17:45	1.7333	83.054	74.230
2020/06/04	10:18:15	1.7417	83.056	74.332
2020/06/04	10:18:45	1.7500	83.062	74.428
2020/06/04	10:19:15	1.7583	83.073	74.523
2020/06/04	10:19:45	1.7667	83.072	74.622
2020/06/04	10:20:15	1.7750	83.080	74.741
2020/06/04	10:20:45	1.7833	-4.002	75.052
2020/06/04	10:21:15	1.7917	-4.034	75.139
2020/06/04	10:21:45	1.8000	-4.085	75.474
2020/06/04	10:22:15	1.8083	-4.065	75.569
2020/06/04	10:22:45	1.8167	-4.092	75.807
2020/06/04	10:23:15	1.8250	-4.088	76.069