

SAN JUAN 27-5 UNIT 916 POW
30-039-30300

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 27-5 Unit POW 916
Well Location	T27N, R5W, Sec 8
Field and Pool	MV/DK
Status (Oil, Gas, Water, Injection)	Observation
Perforated Intervals	4564-7876
Mid-point of Perforated Intervals (MPP)	
Drilling Rig Number	
Elevations	
Kelly Bushing (KB)	15
Casing Flange (CF)	
KB-CF	
Ground Level	6599
Plug Back Total Depth	7968
Total Depth	8040
Production Casing	
Production Tubing	2 3/8

TEST INFORMATION

Type of Test	POOH Static Gradient
Date(s) of Test	5/22/18
Dead-weight Gauge Tubing Pressure	120
Dead-weight Gauge Casing Pressure	
Shut-in Date (Duration)	
Date / Time on Bottom	5/22/18 @1256
Date / Time off Bottom	5/22/18 @1356
Probe Serial Number	W1036
Probe Offset from End of Tool String	0-6000
Run Depth at Probe Pressure Port	7500

PRESSURE TEST RESULTS

Maximum Recorded Probe Pressure	296.6 psig
Maximum Recorded Probe Temperature	198.9 deg F
Final Buildup Pressure	
Gradient Survey Information	
Extrapolated Pressure to MPP	
Final Gradient at Depth	
Job Number	

NMOC D
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DISTRICT III

8

Company Name Hilcorp
Well Name San Juan 27-5 Unit POW 916
Type of Test POOH Static Gradient
Date(s) of Test 5/22/18



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
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Date(s) of Test	5/22/18



COMMENTS

Reported By

Expert Downhole Services, Inc.

RIH with 1.50 IB and tagged fill @ 7599 WLM. RIH with BHP gauge to 7500 for 1 hour, then POOH making 5 minute stops per request.

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Pressure vs. Depth

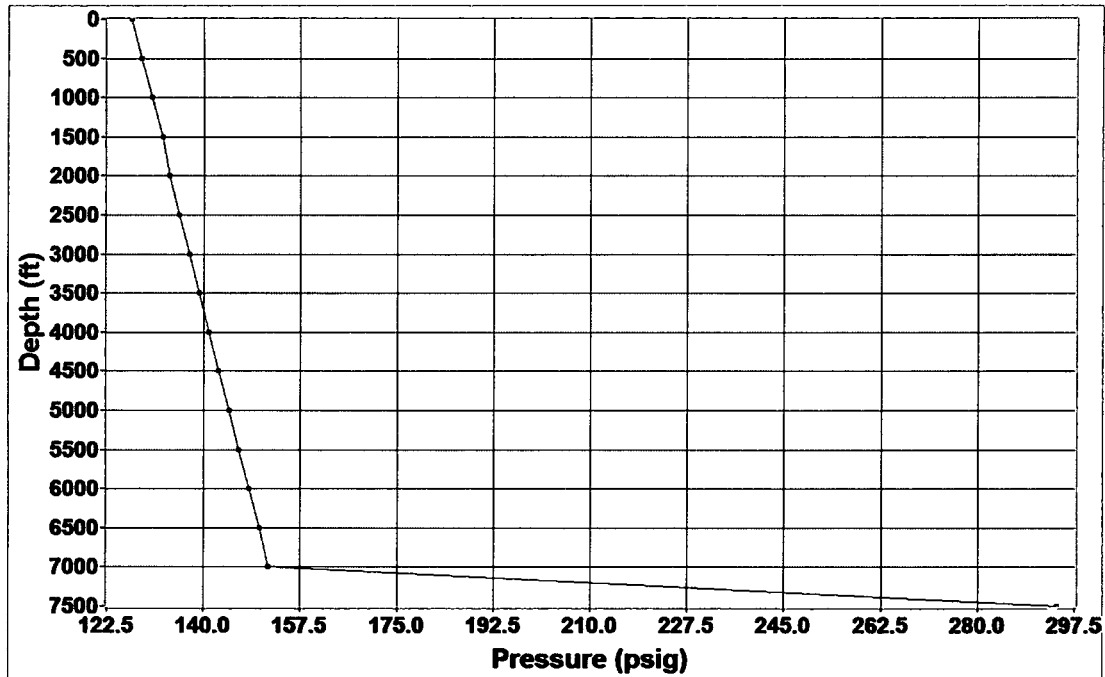
Probe Serial Number W1036

		(ft)	(psig)	(psi/ft)	(deg F)	(deg F/ft)
1256	1356	7500.000	294.341	-	182.773	-
1358	1403	7000.000	151.657	0.2854	191.077	-0.0166
1405	1410	6500.000	150.055	0.0032	185.887	0.0104
1412	1417	6000.000	148.230	0.0036	177.805	0.0162
1419	1424	5500.000	146.351	0.0038	168.370	0.0189
1425	1430	5000.000	144.522	0.0037	158.295	0.0201
1432	1437	4500.000	142.681	0.0037	149.974	0.0166
1439	1444	4000.000	140.943	0.0035	142.394	0.0152
1445	1450	3500.000	139.211	0.0035	134.443	0.0159
1452	1457	3000.000	137.448	0.0035	124.313	0.0203
1458	1503	2500.000	135.545	0.0038	110.921	0.0268
1505	1510	2000.000	133.712	0.0037	99.941	0.0220
1511	1516	1500.000	132.529	0.0024	92.251	0.0154
1517	1522	1000.000	130.548	0.0040	83.080	0.0183
1523	1528	500.000	128.718	0.0037	74.527	0.0171
		0.000	126.974	0.0035	67.784	0.0135

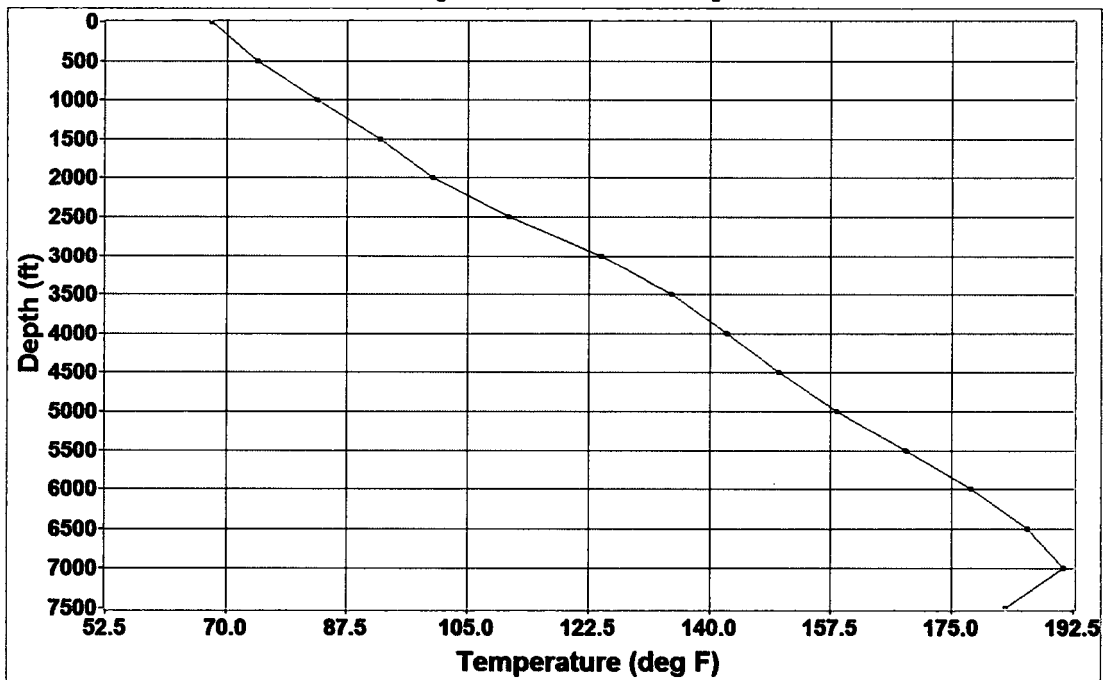
Extrapolated to MPP:

(ft)	(psig)	(deg F)
0.000		

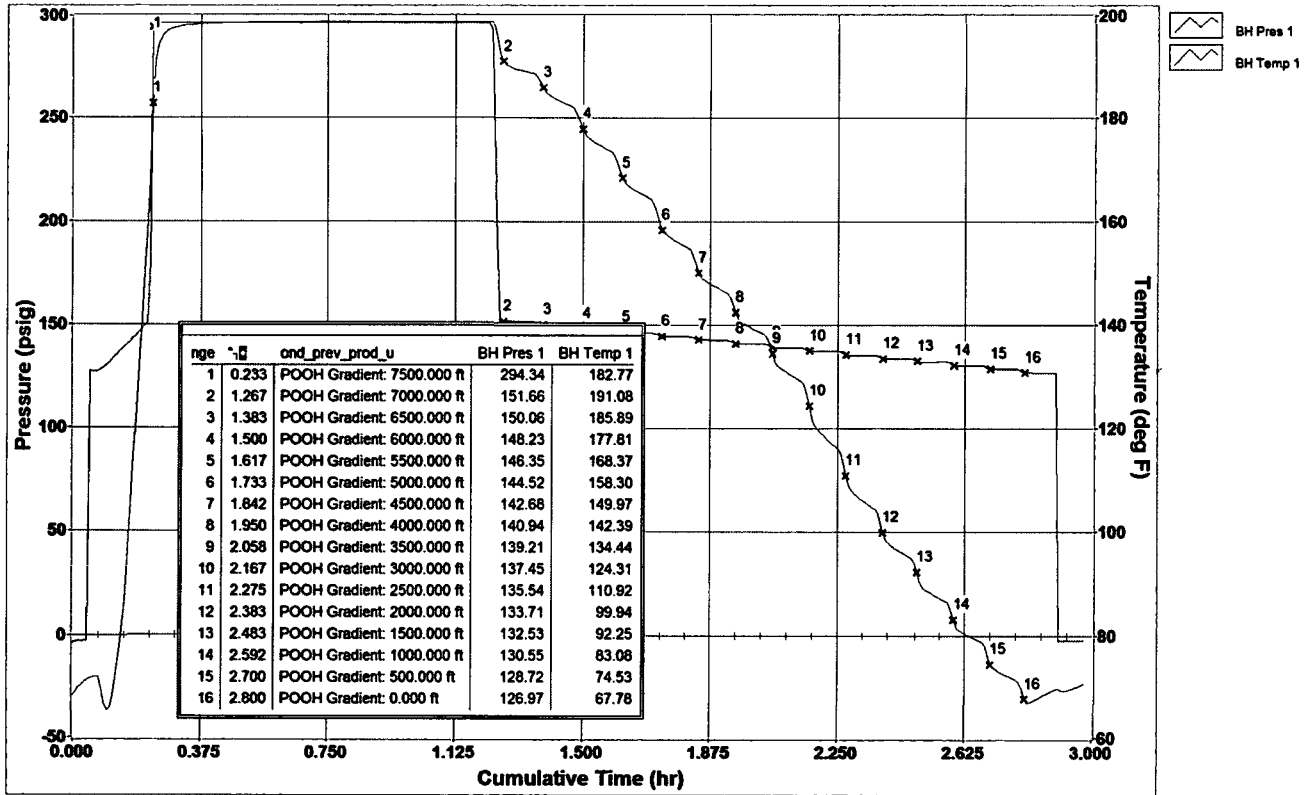
W1036 Depth vs. Pressure



W1036 Depth vs. Temperature



San Juan 27-5 Unit POW 916



Company Name Hilcorp
Well Name San Juan 27-5 Unit POW 916
Type of Test POOH Static Gradient
Date(s) of Test 5/22/18



Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/22	12:42:05	0.0000	-3.759	68.324
2018/05/22	12:43:05	0.0167	-2.779	69.856
2018/05/22	12:44:05	0.0333	-2.858	70.941
2018/05/22	12:45:05	0.0500	127.564	71.647
2018/05/22	12:46:05	0.0667	127.227	72.043
2018/05/22	12:47:05	0.0833	128.316	69.598
2018/05/22	12:48:05	0.1000	130.680	65.435
2018/05/22	12:49:05	0.1167	133.721	68.324
2018/05/22	12:50:05	0.1333	136.361	75.981
2018/05/22	12:51:05	0.1500	139.030	86.587
2018/05/22	12:52:05	0.1667	141.568	103.487
2018/05/22	12:53:05	0.1833	144.547	121.563
2018/05/22	12:54:05	0.2000	147.833	138.870
2018/05/22	12:55:05	0.2167	151.073	157.818
POOH Gradient: 7500.000 ft				
2018/05/22	12:56:05	0.2333	294.341	182.773
2018/05/22	12:57:05	0.2500	296.144	194.182
2018/05/22	12:58:05	0.2667	296.468	196.484
2018/05/22	12:59:05	0.2833	296.461	197.265
2018/05/22	13:00:05	0.3000	296.524	197.681
2018/05/22	13:01:05	0.3167	296.542	197.944
2018/05/22	13:02:05	0.3333	296.547	198.124
2018/05/22	13:03:05	0.3500	296.566	198.234
2018/05/22	13:04:05	0.3667	296.532	198.325
2018/05/22	13:05:05	0.3833	296.502	198.387
2018/05/22	13:06:05	0.4000	296.502	198.424
2018/05/22	13:07:05	0.4167	296.508	198.464
2018/05/22	13:08:05	0.4333	296.508	198.487
2018/05/22	13:09:05	0.4500	296.506	198.520
2018/05/22	13:10:05	0.4667	296.511	198.556
2018/05/22	13:11:05	0.4833	296.508	198.583
2018/05/22	13:12:05	0.5000	296.511	198.606
2018/05/22	13:13:05	0.5167	296.510	198.631
2018/05/22	13:14:05	0.5333	296.493	198.653
2018/05/22	13:15:05	0.5500	296.489	198.658
2018/05/22	13:16:05	0.5667	296.488	198.684
2018/05/22	13:17:05	0.5833	296.485	198.696
2018/05/22	13:18:05	0.6000	296.479	198.700
2018/05/22	13:19:05	0.6167	296.476	198.712
2018/05/22	13:20:05	0.6333	296.474	198.730
2018/05/22	13:21:05	0.6500	296.472	198.736
2018/05/22	13:22:05	0.6667	296.468	198.743
2018/05/22	13:23:05	0.6833	296.463	198.750
2018/05/22	13:24:05	0.7000	296.459	198.759
2018/05/22	13:25:05	0.7167	296.453	198.761
2018/05/22	13:26:05	0.7333	296.451	198.765
2018/05/22	13:27:05	0.7500	296.447	198.774
2018/05/22	13:28:05	0.7667	296.442	198.781
2018/05/22	13:29:05	0.7833	296.440	198.783
2018/05/22	13:30:05	0.8000	296.439	198.792
2018/05/22	13:31:05	0.8167	296.433	198.793
2018/05/22	13:32:05	0.8333	296.435	198.801
2018/05/22	13:33:05	0.8500	296.437	198.811
2018/05/22	13:34:05	0.8667	296.430	198.808

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/22	13:35:05	0.8833	296.427	198.808
2018/05/22	13:36:05	0.9000	296.424	198.808
2018/05/22	13:37:05	0.9167	296.424	198.806
2018/05/22	13:38:05	0.9333	296.427	198.822
2018/05/22	13:39:05	0.9500	296.426	198.828
2018/05/22	13:40:05	0.9667	296.411	198.835
2018/05/22	13:41:05	0.9833	296.413	198.828
2018/05/22	13:42:05	1.0000	296.408	198.831
2018/05/22	13:43:05	1.0167	296.405	198.831
2018/05/22	13:44:05	1.0333	296.406	198.835
2018/05/22	13:45:05	1.0500	296.402	198.835
2018/05/22	13:46:05	1.0667	296.400	198.837
2018/05/22	13:47:05	1.0833	296.400	198.837
2018/05/22	13:48:05	1.1000	296.399	198.847
2018/05/22	13:49:05	1.1167	296.395	198.846
2018/05/22	13:50:05	1.1333	296.397	198.840
2018/05/22	13:51:05	1.1500	296.398	198.842
2018/05/22	13:52:05	1.1667	296.400	198.849
2018/05/22	13:53:05	1.1833	296.399	198.849
2018/05/22	13:54:05	1.2000	296.396	198.849
2018/05/22	13:55:05	1.2167	296.398	198.846
2018/05/22	13:56:05	1.2333	293.272	198.842
2018/05/22	13:57:05	1.2500	190.713	195.582
POOH Gradient: 7000.000 ft				
2018/05/22	13:58:05	1.2667	151.657	191.077
2018/05/22	13:59:05	1.2833	151.584	190.026
2018/05/22	14:00:05	1.3000	151.647	189.608
2018/05/22	14:01:05	1.3167	151.624	189.315
2018/05/22	14:02:05	1.3333	151.603	189.063
2018/05/22	14:03:05	1.3500	151.594	188.841
2018/05/22	14:04:05	1.3667	150.885	187.938
POOH Gradient: 6500.000 ft				
2018/05/22	14:05:05	1.3833	150.055	185.887
2018/05/22	14:06:05	1.4000	149.942	184.424
2018/05/22	14:07:05	1.4167	149.894	183.778
2018/05/22	14:08:05	1.4333	149.861	183.214
2018/05/22	14:09:05	1.4500	149.834	182.710
2018/05/22	14:10:05	1.4667	149.811	182.250
2018/05/22	14:11:05	1.4833	149.149	180.684
POOH Gradient: 6000.000 ft				
2018/05/22	14:12:05	1.5000	148.230	177.805
2018/05/22	14:13:05	1.5167	148.130	176.101
2018/05/22	14:14:05	1.5333	148.114	175.347
2018/05/22	14:15:05	1.5500	148.080	174.702
2018/05/22	14:16:05	1.5667	148.052	174.099
2018/05/22	14:17:05	1.5833	148.026	173.545
2018/05/22	14:18:05	1.6000	147.251	171.568
POOH Gradient: 5500.000 ft				
2018/05/22	14:19:05	1.6167	146.351	168.370
2018/05/22	14:20:05	1.6333	146.270	166.861
2018/05/22	14:21:05	1.6500	146.239	166.129
2018/05/22	14:22:05	1.6667	146.213	165.481
2018/05/22	14:23:05	1.6833	146.190	164.876
2018/05/22	14:24:05	1.7000	146.166	164.305

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Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/22	14:25:05	1.7167	145.276	161.859
POOH Gradient: 5000.000 ft				
2018/05/22	14:26:05	1.7333	144.522	158.295
2018/05/22	14:27:05	1.7500	144.470	157.176
2018/05/22	14:28:05	1.7667	144.438	156.441
2018/05/22	14:29:05	1.7833	144.412	155.763
2018/05/22	14:30:05	1.8000	144.393	155.125
2018/05/22	14:31:05	1.8167	144.244	154.402
2018/05/22	14:32:05	1.8333	143.128	151.560
POOH Gradient: 4500.000 ft				
2018/05/22	14:32:35	1.8417	142.681	149.974
2018/05/22	14:33:05	1.8500	142.647	148.978
2018/05/22	14:34:05	1.8667	142.617	148.194
2018/05/22	14:35:05	1.8833	142.601	147.571
2018/05/22	14:36:05	1.9000	142.587	146.973
2018/05/22	14:37:05	1.9167	142.570	146.404
2018/05/22	14:38:05	1.9333	142.125	145.319
POOH Gradient: 4000.000 ft				
2018/05/22	14:39:05	1.9500	140.943	142.394
2018/05/22	14:40:05	1.9667	140.818	140.563
2018/05/22	14:41:05	1.9833	140.798	139.879
2018/05/22	14:42:05	2.0000	140.780	139.258
2018/05/22	14:43:05	2.0167	140.769	138.668
2018/05/22	14:44:05	2.0333	140.753	138.105
2018/05/22	14:45:05	2.0500	139.866	136.170
POOH Gradient: 3500.000 ft				
2018/05/22	14:45:35	2.0583	139.211	134.443
2018/05/22	14:46:05	2.0667	138.983	132.719
2018/05/22	14:47:05	2.0833	138.946	131.578
2018/05/22	14:48:05	2.1000	138.922	130.827
2018/05/22	14:49:05	2.1167	138.911	130.131
2018/05/22	14:50:05	2.1333	138.903	129.461
2018/05/22	14:51:05	2.1500	138.645	128.676
POOH Gradient: 3000.000 ft				
2018/05/22	14:52:05	2.1667	137.448	124.313
2018/05/22	14:53:05	2.1833	137.175	120.549
2018/05/22	14:54:05	2.2000	137.143	119.230
2018/05/22	14:55:05	2.2167	137.128	118.107
2018/05/22	14:56:05	2.2333	137.102	117.063
2018/05/22	14:57:05	2.2500	137.072	116.092
2018/05/22	14:58:05	2.2667	136.224	113.344
POOH Gradient: 2500.000 ft				
2018/05/22	14:58:35	2.2750	135.545	110.921
2018/05/22	14:59:05	2.2833	135.383	108.799
2018/05/22	15:00:05	2.3000	135.373	107.420
2018/05/22	15:01:05	2.3167	135.388	106.495
2018/05/22	15:02:05	2.3333	135.401	105.678
2018/05/22	15:03:05	2.3500	135.389	104.911
2018/05/22	15:04:05	2.3667	134.936	103.872
POOH Gradient: 2000.000 ft				
2018/05/22	15:05:05	2.3833	133.712	99.941
2018/05/22	15:06:05	2.4000	133.658	97.821
2018/05/22	15:07:05	2.4167	133.693	96.969
2018/05/22	15:08:05	2.4333	133.733	96.238

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2018/05/22	15:09:05	2.4500	133.755	95.562
2018/05/22	15:10:05	2.4667	133.773	94.919
POOH Gradient: 1500.000 ft				
2018/05/22	15:11:05	2.4833	132.529	92.251
2018/05/22	15:12:05	2.5000	132.121	89.303
2018/05/22	15:13:05	2.5167	132.144	88.462
2018/05/22	15:14:05	2.5333	132.160	87.813
2018/05/22	15:15:05	2.5500	132.183	87.215
2018/05/22	15:16:05	2.5667	132.206	86.635
2018/05/22	15:17:05	2.5833	131.251	84.969
POOH Gradient: 1000.000 ft				
2018/05/22	15:17:35	2.5917	130.548	83.080
2018/05/22	15:18:05	2.6000	130.431	81.592
2018/05/22	15:19:05	2.6167	130.476	80.697
2018/05/22	15:20:05	2.6333	130.496	80.100
2018/05/22	15:21:05	2.6500	130.469	79.565
2018/05/22	15:22:05	2.6667	130.461	79.056
2018/05/22	15:23:05	2.6833	129.928	78.093
POOH Gradient: 500.000 ft				
2018/05/22	15:24:05	2.7000	128.718	74.527
2018/05/22	15:25:05	2.7167	128.740	73.393
2018/05/22	15:26:05	2.7333	128.761	72.766
2018/05/22	15:27:05	2.7500	128.781	72.216
2018/05/22	15:28:05	2.7667	128.797	71.694
2018/05/22	15:29:05	2.7833	128.484	71.082
POOH Gradient: 0.000 ft				
2018/05/22	15:30:05	2.8000	126.974	67.784
2018/05/22	15:31:05	2.8167	126.963	67.141
2018/05/22	15:32:05	2.8333	126.925	67.685
2018/05/22	15:33:05	2.8500	126.922	68.288
2018/05/22	15:34:05	2.8667	126.887	68.864
2018/05/22	15:35:05	2.8833	126.887	69.406
2018/05/22	15:36:05	2.9000	-2.319	69.805
2018/05/22	15:37:05	2.9167	-2.309	69.345
2018/05/22	15:38:05	2.9333	-2.377	69.598
2018/05/22	15:39:05	2.9500	-2.415	70.000
2018/05/22	15:40:05	2.9667	-2.375	70.453