

IPI

11/10/03

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PLR033173600C
WVS 

WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

7415 East Main
Farmington, New Mexico 87402
(505) 327-4892 • Fax: (505) 327-9834

November 5, 2003

Mr. Will Jones
NM Oil and Gas Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: Step Rate Injection Test
Calpine Natural Gas Company
Roosevelt SWD #1
SE/4 Section 22, T30N, R14W

RECEIVED

NOV 10 2003

Oil Conservation Division

30-045-31448
SWD-879-A

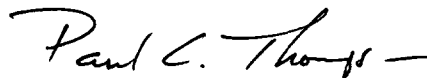
Dear Mr. Jones,

Calpine Natural Gas Company performed a step-rate injection test on their Roosevelt SWD #1 disposal well on November 3, 2003. Based on the results of this test, Calpine Natural Gas requests an increase in the maximum allowable injection pressure to 1075 psi, measured at the surface.

Attached as Exhibit #1 is a summary of the injection rates with surface and bottom hole pressures. Exhibit 2 is a plot of rate vs. pressure, which clearly shows the parting pressure. Exhibits #3 and #4 are the raw bottom-hole and surface pressure data.

Please call if you have any questions or need additional data.

Sincerely,



Paul C. Thompson, P.E.
Agent for Calpine Natural Gas

cc: Mr. Charlie Perrin, NMOCD
Mr. Hugo Cartaya, Calpine

Jones, William V

From: Chavez, Frank
Sent: Friday, November 14, 2003 8:22 AM
To: Jones, William V
Cc: Perrin, Charlie
Subject: Calpine Step Rate Test

We agree that the parting occurs between 4 and 4.5 BPM.

Note that the tubing depth on their 5th page is in error. It should say 3701, which they reported on 4/23.

Exhibit #1

Calpine Natural Gas
Roosevelt SWD #1
Section 22, T30N, R14W
San Juan County, NM

Step Rate Test Results

Injection Rate Bbls/Min	Average Surface Pressure Psig	Average Bottom Hole Pressure Psig
0	515	2135
0.59	543	2150
1.02	577	2174
1.49	629	2201
2.02	700	2232
2.55	777	2262
3.01	855	2292
3.61	958	2321
3.97	1030	2348
4.56	1140	2368
5.03	1211	2365
5.53	1303	2366
6.10	1411	2367
6.43	1471	2369
7.02	1588	2368
7.52	1699	2365
8.00	1816	2366

ROOSEVELT SWD #1

STEP RATE TEST

11/3/03

EXHIBIT #2

13-782 500 SHEETS FILLED 5 SQUARE
42-381 500 SHEETS EYE EASEP 5 SQUARE
42-382 100 SHEETS EYE EASEP 5 SQUARE
42-383 200 SHEETS EYE EASEP 5 SQUARE
42-384 100 RECYCLED WHITE 5 SQUARE
42-385 200 RECYCLED WHITE 5 SQUARE
MADE IN U.S.A.

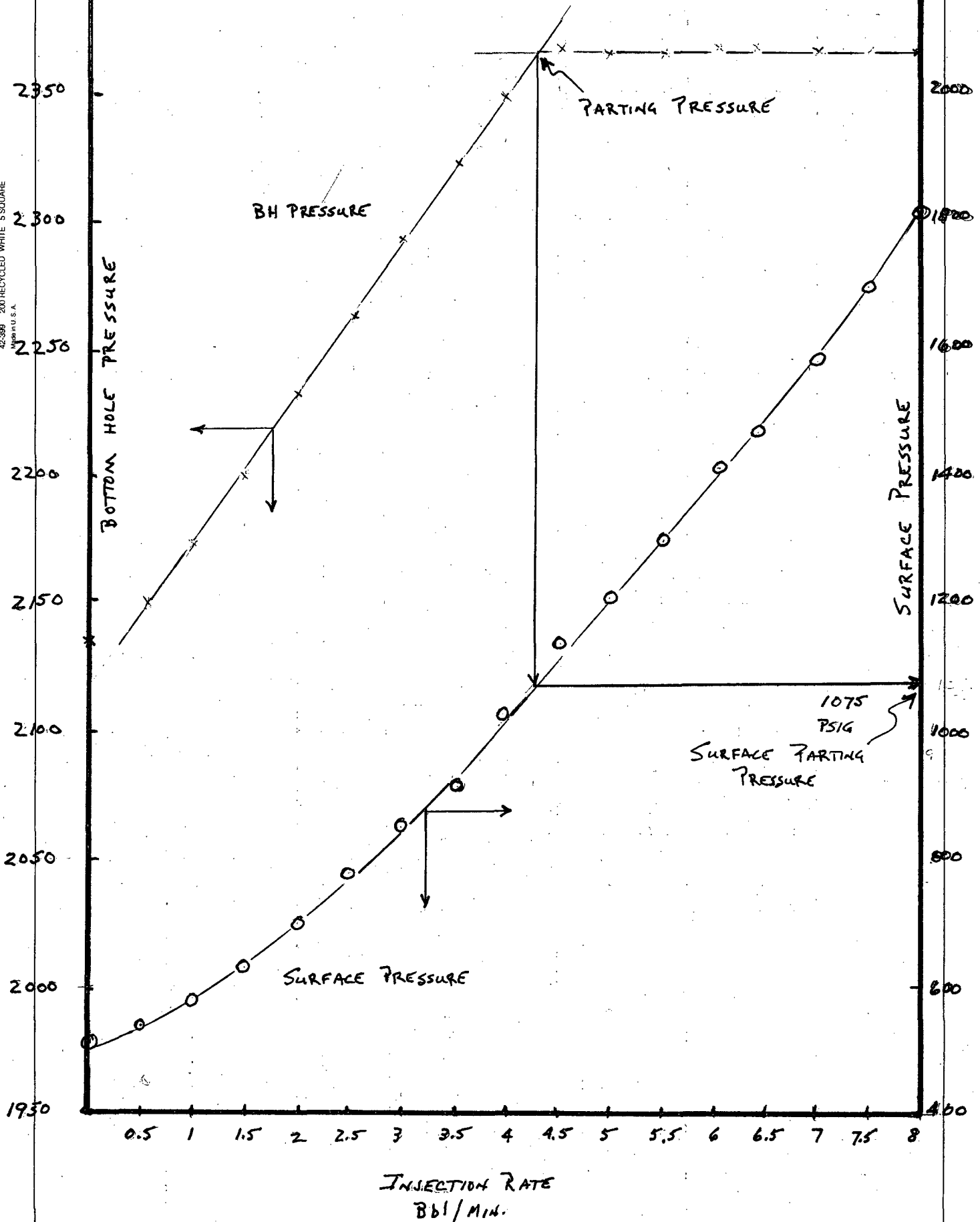


EXHIBIT #3
ROOSEVELT SWD
STEP RATE TEST
BOTTOM HOLE PRESSURE DATA

Pressure Test Report

COMPANY INFORMATION

Company Name
Representative
Phone
Fax
Address

CALPINE NATURAL GAS CO.
PAUL THOMPSON

C/O WALSH ENG & PROD
7415 E. MAIN
FARMINGTON, NM 87402

E-Mail Address
Service Company

phoenixservices@zianet.com
PHOENIX SERVICES, LLC

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

ROOSEVELT SWD 1
T30N, R14W, SEC. 22
POINT LOOKOUT
INJECTION
3745-3830

30-045-31448
SWD-879-A

2 7/8 TO 3107

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

STEP RATE
11/3/03
514
12

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

9459
1820

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

3257.7 psig
108.5 deg F



Company Name CALPINE NATURAL GAS CO.
Well Name ROOSEVELT SWD 1
Type of Test STEP RATE
Date(s) of Test 11/3/03

PROBE INFORMATION

Probe Serial Number 9459
Model 9459
Pressure
 Calibrated Pressure Range 0-6000
 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>
-------------	--------------------	---------------	-----------------	----------------

Program Start Time
Program End Time
Total Samples Taken
Usage for this Test
Generic Data File Name



Company Name	CALPINE NATURAL GAS CO.
Well Name	ROOSEVELT SWD 1
Type of Test	STEP RATE
Date(s) of Test	11/3/03

COMMENTS

Reported By

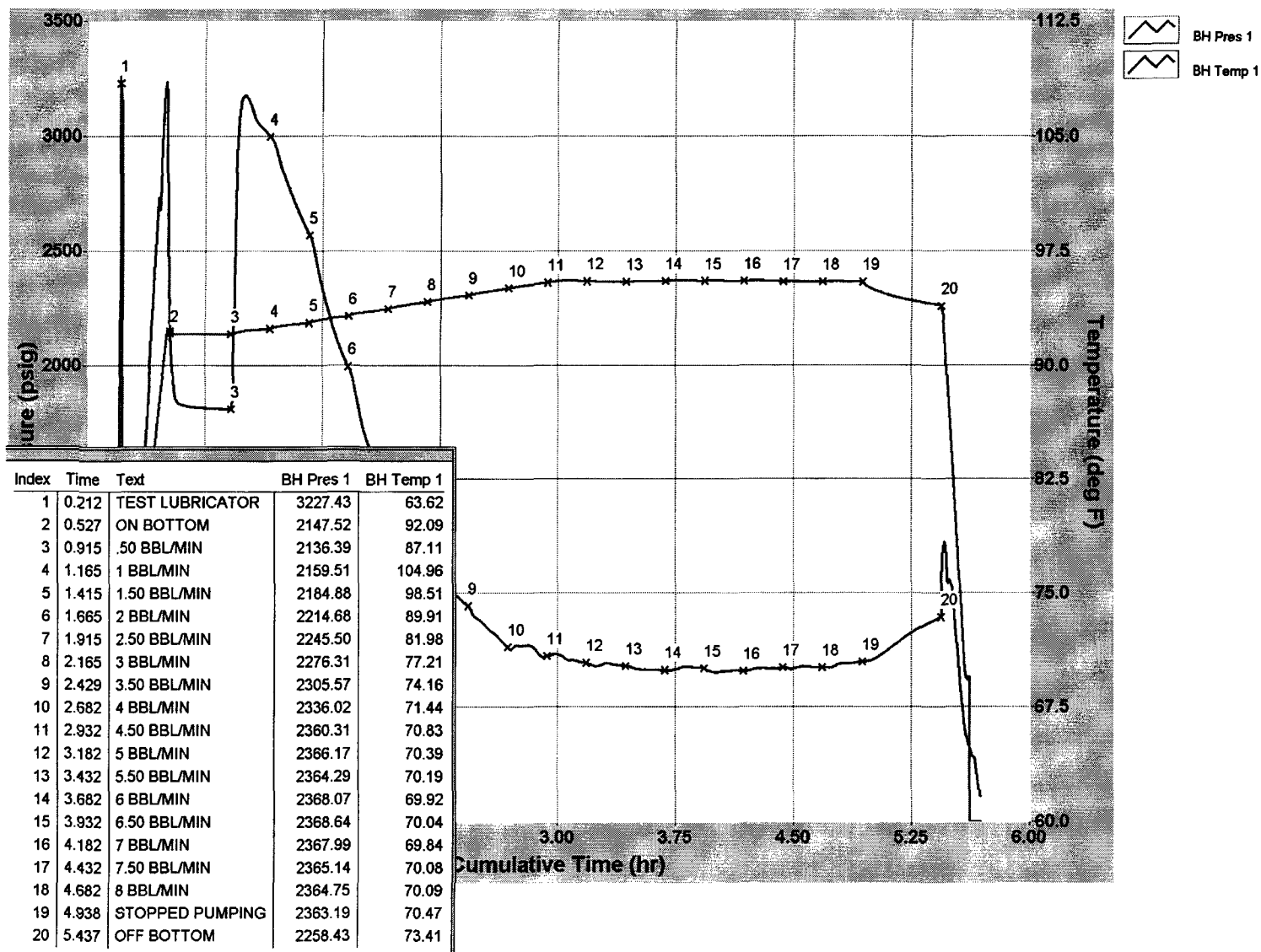
PHOENIX SERVICES, LLC

RAN TANDEM BHP GAUGES TO 3735' KB-HALIBURTON CONDUCTED STEP RATE TEST
BEGINNING @ .50 BBL/MIN UP TO 8 BBL/MIN



Company Name CALPINE NATURAL GAS CO.
 Well Name ROOSEVELT SWD 1
 Type of Test STEP RATE
 Date(s) of Test 11/3/03

Roosevelt SWD #1





Company Name CALPINE NATURAL GAS CO.
Well Name ROOSEVELT SWD 1
Type of Test STEP RATE
Date(s) of Test 11/3/03

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	09:24:05	0.0000	0.000	67.564
2003/11/03	09:25:05	0.0167	0.000	67.359
2003/11/03	09:26:05	0.0333	0.000	67.465
2003/11/03	09:27:05	0.0500	0.000	69.039
2003/11/03	09:28:05	0.0667	0.000	69.762
2003/11/03	09:29:05	0.0833	0.000	69.553
2003/11/03	09:30:05	0.1000	0.000	69.190
2003/11/03	09:31:05	0.1167	0.000	68.783
2003/11/03	09:32:05	0.1333	0.000	68.400
2003/11/03	09:33:05	0.1500	0.000	68.079
2003/11/03	09:34:05	0.1667	0.000	67.777
2003/11/03	09:35:05	0.1833	0.000	67.494
2003/11/03	09:36:05	0.2000	53.339	67.242
TEST LUBRICATOR				
2003/11/03	09:36:47	0.2117	3227.434	63.621
2003/11/03	09:37:05	0.2167	3185.384	62.834
2003/11/03	09:38:05	0.2333	0.000	60.971
2003/11/03	09:39:05	0.2500	504.499	61.518
2003/11/03	09:40:05	0.2667	547.695	64.492
2003/11/03	09:41:05	0.2833	616.563	65.624
2003/11/03	09:42:05	0.3000	767.204	68.196
2003/11/03	09:43:05	0.3167	925.012	72.455
2003/11/03	09:44:05	0.3333	1046.075	76.802
2003/11/03	09:45:05	0.3500	1142.516	81.079
2003/11/03	09:46:05	0.3667	1242.415	84.164
2003/11/03	09:47:05	0.3833	1342.477	86.886
2003/11/03	09:48:05	0.4000	1445.725	90.635
2003/11/03	09:49:05	0.4167	1554.577	94.554
2003/11/03	09:50:05	0.4333	1667.498	97.619
2003/11/03	09:51:05	0.4500	1783.449	100.634
2003/11/03	09:52:05	0.4667	1887.554	101.383
2003/11/03	09:53:05	0.4833	1985.511	105.561
2003/11/03	09:54:05	0.5000	2096.465	108.262
2003/11/03	09:55:05	0.5167	2151.327	96.386
ON BOTTOM				
2003/11/03	09:55:42	0.5269	2147.521	92.091
2003/11/03	09:56:05	0.5333	2146.430	90.743
2003/11/03	09:57:05	0.5500	2137.849	88.333
2003/11/03	09:58:05	0.5667	2136.301	87.627
2003/11/03	09:59:05	0.5833	2135.982	87.467
2003/11/03	10:00:05	0.6000	2135.880	87.406
2003/11/03	10:01:05	0.6167	2135.835	87.368
2003/11/03	10:02:05	0.6333	2135.785	87.321
2003/11/03	10:03:05	0.6500	2135.710	87.283
2003/11/03	10:04:05	0.6667	2135.649	87.253
2003/11/03	10:05:05	0.6833	2135.649	87.244
2003/11/03	10:06:05	0.7000	2135.590	87.222
2003/11/03	10:07:05	0.7167	2135.569	87.215
2003/11/03	10:08:05	0.7333	2135.534	87.201
2003/11/03	10:09:05	0.7500	2135.464	87.190

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	10:10:05	0.7667	2135.421	87.179
2003/11/03	10:11:05	0.7833	2135.425	87.183
2003/11/03	10:12:05	0.8000	2135.349	87.166
2003/11/03	10:13:05	0.8167	2135.313	87.163
2003/11/03	10:14:05	0.8333	2135.269	87.157
2003/11/03	10:15:05	0.8500	2135.251	87.145
2003/11/03	10:16:05	0.8667	2135.205	87.136
2003/11/03	10:17:05	0.8833	2135.174	87.127
2003/11/03	10:18:05	0.9000	2135.121	87.123
.50 BBL/MIN				
2003/11/03	10:19:00	0.9153	2136.391	87.114
2003/11/03	10:19:05	0.9167	2138.827	87.121
2003/11/03	10:20:05	0.9333	2138.961	92.466
2003/11/03	10:21:05	0.9500	2141.593	101.952
2003/11/03	10:22:05	0.9667	2145.715	105.714
2003/11/03	10:23:05	0.9833	2148.205	107.249
2003/11/03	10:24:05	1.0000	2149.942	107.593
2003/11/03	10:25:05	1.0167	2151.460	107.528
2003/11/03	10:26:05	1.0333	2152.583	107.222
2003/11/03	10:27:05	1.0500	2153.714	106.770
2003/11/03	10:28:05	1.0667	2154.642	106.239
2003/11/03	10:29:05	1.0833	2155.729	105.910
2003/11/03	10:30:05	1.1000	2156.325	105.708
2003/11/03	10:31:05	1.1167	2157.096	105.528
2003/11/03	10:32:05	1.1333	2158.023	105.339
2003/11/03	10:33:05	1.1500	2158.712	105.139
1 BBL/MIN				
2003/11/03	10:34:00	1.1653	2159.513	104.958
2003/11/03	10:34:05	1.1667	2159.401	104.938
2003/11/03	10:35:05	1.1833	2164.693	104.747
2003/11/03	10:36:05	1.2000	2167.738	104.349
2003/11/03	10:37:05	1.2167	2170.033	103.741
2003/11/03	10:38:05	1.2333	2171.903	103.120
2003/11/03	10:39:05	1.2500	2173.574	102.562
2003/11/03	10:40:05	1.2667	2174.994	102.074
2003/11/03	10:41:05	1.2833	2176.473	101.617
2003/11/03	10:42:05	1.3000	2177.707	101.178
2003/11/03	10:43:05	1.3167	2178.955	100.751
2003/11/03	10:44:05	1.3333	2180.150	100.341
2003/11/03	10:45:05	1.3500	2181.060	99.946
2003/11/03	10:46:05	1.3667	2182.172	99.561
2003/11/03	10:47:05	1.3833	2183.211	99.199
2003/11/03	10:48:05	1.4000	2184.143	98.841
1.50 BBL/MIN				
2003/11/03	10:49:00	1.4153	2184.881	98.512
2003/11/03	10:49:05	1.4167	2185.062	98.485
2003/11/03	10:50:05	1.4333	2190.864	98.062
2003/11/03	10:51:05	1.4500	2193.921	97.282
2003/11/03	10:52:05	1.4667	2196.504	96.420
2003/11/03	10:53:05	1.4833	2198.464	95.625



Company Name CALPINE NATURAL GAS CO.
Well Name ROOSEVELT SWD 1
Type of Test STEP RATE
Date(s) of Test 11/3/03

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	10:54:05	1.5000	2200.503	94.919
2003/11/03	10:55:05	1.5167	2202.072	94.266
2003/11/03	10:56:05	1.5333	2203.760	93.655
2003/11/03	10:57:05	1.5500	2205.161	93.078
2003/11/03	10:58:05	1.5667	2206.775	92.527
2003/11/03	10:59:05	1.5833	2208.130	92.003
2003/11/03	11:00:05	1.6000	2209.611	91.522
2003/11/03	11:01:05	1.6167	2210.850	91.054
2003/11/03	11:02:05	1.6333	2212.244	90.633
2003/11/03	11:03:05	1.6500	2213.403	90.237
2 BBL/MIN		Average 2201.358		
2003/11/03	11:04:00	1.6653	2214.681	89.906
2003/11/03	11:04:05	1.6667	2214.695	89.877
2003/11/03	11:05:05	1.6833	2220.099	89.476
2003/11/03	11:06:05	1.7000	2223.530	88.666
2003/11/03	11:07:05	1.7167	2226.168	87.807
2003/11/03	11:08:05	1.7333	2228.339	86.992
2003/11/03	11:09:05	1.7500	2230.470	86.196
2003/11/03	11:10:05	1.7667	2232.357	85.543
2003/11/03	11:11:05	1.7833	2234.110	84.985
2003/11/03	11:12:05	1.8000	2235.678	84.501
2003/11/03	11:13:05	1.8167	2237.248	84.058
2003/11/03	11:14:05	1.8333	2238.763	83.651
2003/11/03	11:15:05	1.8500	2240.136	83.273
2003/11/03	11:16:05	1.8667	2241.617	82.915
2003/11/03	11:17:05	1.8833	2242.984	82.582
2003/11/03	11:18:05	1.9000	2244.360	82.261
2.50 BBL/MIN		Average 2231.578		
2003/11/03	11:19:00	1.9153	2245.500	81.977
2003/11/03	11:19:05	1.9167	2245.597	81.957
2003/11/03	11:20:05	1.9333	2250.762	81.597
2003/11/03	11:21:05	1.9500	2253.642	81.070
2003/11/03	11:22:05	1.9667	2256.102	80.668
2003/11/03	11:23:05	1.9833	2258.178	80.391
2003/11/03	11:24:05	2.0000	2260.120	80.128
2003/11/03	11:25:05	2.0167	2262.068	79.756
2003/11/03	11:26:05	2.0333	2264.014	79.430
2003/11/03	11:27:05	2.0500	2265.715	79.120
2003/11/03	11:28:05	2.0667	2267.455	78.845
2003/11/03	11:29:05	2.0833	2268.973	78.537
2003/11/03	11:30:05	2.1000	2270.707	78.208
2003/11/03	11:31:05	2.1167	2272.214	77.911
2003/11/03	11:32:05	2.1333	2273.650	77.637
2003/11/03	11:33:05	2.1500	2275.185	77.403
3 BBL/MIN		Average 2261.868		
2003/11/03	11:34:00	2.1653	2276.307	77.205
2003/11/03	11:34:05	2.1667	2276.404	77.185
2003/11/03	11:35:05	2.1833	2280.107	76.951
2003/11/03	11:36:05	2.2000	2282.718	76.572
2003/11/03	11:37:05	2.2167	2285.115	76.298

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	11:38:05	2.2333	2287.193	76.023
2003/11/03	11:39:05	2.2500	2289.054	75.722
2003/11/03	11:40:05	2.2667	2290.917	75.454
2003/11/03	11:41:05	2.2833	2292.662	75.283
2003/11/03	11:42:05	2.3000	2294.291	75.187
2003/11/03	11:43:05	2.3167	2295.971	75.090
2003/11/03	11:44:05	2.3333	2297.440	74.977
2003/11/03	11:45:05	2.3500	2298.952	74.844
2003/11/03	11:46:05	2.3667	2300.434	74.700
2003/11/03	11:47:05	2.3833	2301.794	74.534
2003/11/03	11:48:05	2.4000	2303.235	74.367
2003/11/03	11:49:05	2.4167	2304.635	74.260
3.50 BBL/MIN		Average 2291.602		
2003/11/03	11:49:50	2.4292	2305.570	74.156
2003/11/03	11:50:05	2.4333	2305.951	74.107
2003/11/03	11:51:05	2.4500	2309.951	73.749
2003/11/03	11:52:05	2.4667	2312.360	73.479
2003/11/03	11:53:05	2.4833	2314.535	73.346
2003/11/03	11:54:05	2.5000	2316.586	73.225
2003/11/03	11:55:05	2.5167	2318.586	73.085
2003/11/03	11:56:05	2.5333	2320.480	72.927
2003/11/03	11:57:05	2.5500	2322.279	72.714
2003/11/03	11:58:05	2.5667	2324.098	72.540
2003/11/03	11:59:05	2.5833	2325.880	72.414
2003/11/03	12:00:05	2.6000	2327.542	72.297
2003/11/03	12:01:05	2.6167	2329.173	72.144
2003/11/03	12:02:05	2.6333	2330.867	71.937
2003/11/03	12:03:05	2.6500	2332.682	71.766
2003/11/03	12:04:05	2.6667	2334.397	71.595
4 BBL/MIN		Average 2320.684		
2003/11/03	12:05:00	2.6819	2336.021	71.442
2003/11/03	12:05:05	2.6833	2336.245	71.429
2003/11/03	12:06:05	2.7000	2338.589	71.290
2003/11/03	12:07:05	2.7167	2340.530	71.388
2003/11/03	12:08:05	2.7333	2342.469	71.541
2003/11/03	12:09:05	2.7500	2344.463	71.542
2003/11/03	12:10:05	2.7667	2346.325	71.494
2003/11/03	12:11:05	2.7833	2347.824	71.539
2003/11/03	12:12:05	2.8000	2349.510	71.537
2003/11/03	12:13:05	2.8167	2351.310	71.562
2003/11/03	12:14:05	2.8333	2352.989	71.492
2003/11/03	12:15:05	2.8500	2354.256	71.350
2003/11/03	12:16:05	2.8667	2355.478	71.143
2003/11/03	12:17:05	2.8833	2356.607	70.927
2003/11/03	12:18:05	2.9000	2357.949	70.781
2003/11/03	12:19:05	2.9167	2359.125	70.767
4.50 BBL/MIN		2348.100		
2003/11/03	12:20:00	2.9319	2360.314	70.833
2003/11/03	12:20:05	2.9333	2360.391	70.846
2003/11/03	12:21:05	2.9500	2362.741	70.898



Company Name CALPINE NATURAL GAS CO.
Well Name ROOSEVELT SWD 1
Type of Test STEP RATE
Date(s) of Test 11/3/03

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	12:22:05	2.9667	2364.669	70.938
2003/11/03	12:23:05	2.9833	2366.302	70.979
2003/11/03	12:24:05	3.0000	2367.725	70.963
2003/11/03	12:25:05	3.0167	2368.960	70.920
2003/11/03	12:26:05	3.0333	2369.967	70.822
2003/11/03	12:27:05	3.0500	2371.058	70.677
2003/11/03	12:28:05	3.0667	2371.865	70.576
2003/11/03	12:29:05	3.0833	2372.244	70.581
2003/11/03	12:30:05	3.1000	2371.771	70.585
2003/11/03	12:31:05	3.1167	2370.199	70.534
2003/11/03	12:32:05	3.1333	2368.265	70.486
2003/11/03	12:33:05	3.1500	2367.097	70.443
2003/11/03	12:34:05	3.1667	2366.645	70.407
5 BBL/MIN		<i>Average 2367.514</i>		
2003/11/03	12:35:00	3.1819	2366.173	70.385
2003/11/03	12:35:05	3.1833	2366.267	70.381
2003/11/03	12:36:05	3.2000	2366.924	70.338
2003/11/03	12:37:05	3.2167	2366.802	70.252
2003/11/03	12:38:05	3.2333	2366.707	70.203
2003/11/03	12:39:05	3.2500	2365.910	70.189
2003/11/03	12:40:05	3.2667	2365.062	70.203
2003/11/03	12:41:05	3.2833	2364.338	70.266
2003/11/03	12:42:05	3.3000	2363.944	70.345
2003/11/03	12:43:05	3.3167	2363.920	70.369
2003/11/03	12:44:05	3.3333	2363.941	70.356
2003/11/03	12:45:05	3.3500	2364.081	70.299
2003/11/03	12:46:05	3.3667	2364.270	70.259
2003/11/03	12:47:05	3.3833	2364.291	70.248
2003/11/03	12:48:05	3.4000	2364.363	70.212
2003/11/03	12:49:05	3.4167	2364.283	70.187
5.50 BBL/MIN		<i>Average 2365.080</i>		
2003/11/03	12:50:00	3.4319	2364.286	70.189
2003/11/03	12:50:05	3.4333	2364.665	70.185
2003/11/03	12:51:05	3.4500	2365.741	70.189
2003/11/03	12:52:05	3.4667	2365.970	70.120
2003/11/03	12:53:05	3.4833	2366.267	70.041
2003/11/03	12:54:05	3.5000	2366.712	69.993
2003/11/03	12:55:05	3.5167	2366.313	69.987
2003/11/03	12:56:05	3.5333	2366.958	69.957
2003/11/03	12:57:05	3.5500	2366.918	69.957
2003/11/03	12:58:05	3.5667	2367.151	69.957
2003/11/03	12:59:05	3.5833	2367.448	69.960
2003/11/03	13:00:05	3.6000	2367.453	69.964
2003/11/03	13:01:05	3.6167	2367.259	69.948
2003/11/03	13:02:05	3.6333	2367.815	69.940
2003/11/03	13:03:05	3.6500	2367.903	69.924
2003/11/03	13:04:05	3.6667	2367.858	69.915
6 BBL/MIN		<i>Average 2366.653</i>		
2003/11/03	13:05:00	3.6819	2368.074	69.919
2003/11/03	13:05:05	3.6833	2367.969	69.922

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	13:06:05	3.7000	2369.129	69.908
2003/11/03	13:07:05	3.7167	2369.407	69.904
2003/11/03	13:08:05	3.7333	2369.962	69.935
2003/11/03	13:09:05	3.7500	2370.037	69.978
2003/11/03	13:10:05	3.7667	2370.321	70.005
2003/11/03	13:11:05	3.7833	2370.061	70.075
2003/11/03	13:12:05	3.8000	2369.837	70.122
2003/11/03	13:13:05	3.8167	2370.067	70.151
2003/11/03	13:14:05	3.8333	2370.004	70.131
2003/11/03	13:15:05	3.8500	2369.634	70.111
2003/11/03	13:16:05	3.8667	2369.578	70.095
2003/11/03	13:17:05	3.8833	2369.139	70.074
2003/11/03	13:18:05	3.9000	2369.001	70.084
2003/11/03	13:19:05	3.9167	2368.513	70.075
6.50 BBL/MIN		<i>Average 2369.421</i>		
2003/11/03	13:20:00	3.9319	2368.644	70.041
2003/11/03	13:20:05	3.9333	2368.829	70.036
2003/11/03	13:21:05	3.9500	2369.393	69.933
2003/11/03	13:22:05	3.9667	2369.611	69.870
2003/11/03	13:23:05	3.9833	2369.708	69.820
2003/11/03	13:24:05	4.0000	2369.581	69.778
2003/11/03	13:25:05	4.0167	2369.536	69.782
2003/11/03	13:26:05	4.0333	2369.456	69.811
2003/11/03	13:27:05	4.0500	2369.368	69.836
2003/11/03	13:28:05	4.0667	2369.203	69.829
2003/11/03	13:29:05	4.0833	2369.153	69.847
2003/11/03	13:30:05	4.1000	2369.009	69.858
2003/11/03	13:31:05	4.1167	2368.837	69.895
2003/11/03	13:32:05	4.1333	2368.589	69.912
2003/11/03	13:33:05	4.1500	2368.375	69.897
2003/11/03	13:34:05	4.1667	2368.084	69.861
7 BBL/MIN		<i>2369.086</i>		
2003/11/03	13:35:00	4.1819	2367.989	69.841
2003/11/03	13:35:05	4.1833	2368.171	69.840
2003/11/03	13:36:05	4.2000	2369.005	69.823
2003/11/03	13:37:05	4.2167	2369.206	69.894
2003/11/03	13:38:05	4.2333	2369.362	69.931
2003/11/03	13:39:05	4.2500	2369.417	69.978
2003/11/03	13:40:05	4.2667	2369.330	70.016
2003/11/03	13:41:05	4.2833	2369.469	70.020
2003/11/03	13:42:05	4.3000	2369.270	70.029
2003/11/03	13:43:05	4.3167	2368.986	70.030
2003/11/03	13:44:05	4.3333	2368.562	69.996
2003/11/03	13:45:05	4.3500	2368.196	70.002
2003/11/03	13:46:05	4.3667	2367.946	70.012
2003/11/03	13:47:05	4.3833	2366.931	70.012
2003/11/03	13:48:05	4.4000	2366.427	70.011
2003/11/03	13:49:05	4.4167	2365.696	70.041
7.50 BBL/MIN		<i>2368.373</i>		
2003/11/03	13:50:00	4.4319	2365.145	70.079



Company Name CALPINE NATURAL GAS CO.
Well Name ROOSEVELT SWD 1
Type of Test STEP RATE
Date(s) of Test 11/3/03

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	13:50:05	4.4333	2365.302	70.086
2003/11/03	13:51:05	4.4500	2365.943	70.088
2003/11/03	13:52:05	4.4667	2366.218	70.020
2003/11/03	13:53:05	4.4833	2366.222	69.967
2003/11/03	13:54:05	4.5000	2366.051	70.020
2003/11/03	13:55:05	4.5167	2366.187	70.063
2003/11/03	13:56:05	4.5333	2366.088	70.097
2003/11/03	13:57:05	4.5500	2365.851	70.140
2003/11/03	13:58:05	4.5667	2365.586	70.138
2003/11/03	13:59:05	4.5833	2365.607	70.151
2003/11/03	14:00:05	4.6000	2365.444	70.128
2003/11/03	14:01:05	4.6167	2365.187	70.101
2003/11/03	14:02:05	4.6333	2365.196	70.083
2003/11/03	14:03:05	4.6500	2365.108	70.084
2003/11/03	14:04:05	4.6667	2364.873	70.084
8 BBL/MIN			2365.626	
2003/11/03	14:05:00	4.6819	2364.749	70.090
2003/11/03	14:05:05	4.6833	2364.729	70.086
2003/11/03	14:06:05	4.7000	2365.778	70.092
2003/11/03	14:07:05	4.7167	2365.849	70.072
2003/11/03	14:08:05	4.7333	2366.141	70.075
2003/11/03	14:09:05	4.7500	2366.364	70.104
2003/11/03	14:10:05	4.7667	2366.260	70.207
2003/11/03	14:11:05	4.7833	2366.330	70.304
2003/11/03	14:12:05	4.8000	2366.056	70.345
2003/11/03	14:13:05	4.8167	2365.898	70.362
2003/11/03	14:14:05	4.8333	2365.783	70.367
2003/11/03	14:15:05	4.8500	2365.523	70.358
2003/11/03	14:16:05	4.8667	2365.478	70.378
2003/11/03	14:17:05	4.8833	2365.383	70.385
2003/11/03	14:18:05	4.9000	2365.620	70.419
2003/11/03	14:19:05	4.9167	2365.721	70.457
2003/11/03	14:20:05	4.9333	2365.565	70.462
STOPPED PUMPING			2365.720	
2003/11/03	14:20:20	4.9375	2363.186	70.468
2003/11/03	14:21:05	4.9500	2351.177	70.466
2003/11/03	14:22:05	4.9667	2343.185	70.495
2003/11/03	14:23:05	4.9833	2336.793	70.525
2003/11/03	14:24:05	5.0000	2331.266	70.585
2003/11/03	14:25:05	5.0167	2326.269	70.669
2003/11/03	14:26:05	5.0333	2321.748	70.765
2003/11/03	14:27:05	5.0500	2317.576	70.869
2003/11/03	14:28:05	5.0667	2313.622	70.993
2003/11/03	14:29:05	5.0833	2309.967	71.116
2003/11/03	14:30:05	5.1000	2306.539	71.253
2003/11/03	14:31:05	5.1167	2303.264	71.386
2003/11/03	14:32:05	5.1333	2300.164	71.514
2003/11/03	14:33:05	5.1500	2297.195	71.620
2003/11/03	14:34:05	5.1667	2294.405	71.748
2003/11/03	14:35:05	5.1833	2291.720	71.881

Date	Time	Cum.Time BH1	BH Pres 1	BH Temp 1
		hr	psig	deg F
2003/11/03	14:36:05	5.2000	2289.202	72.034
2003/11/03	14:37:05	5.2167	2286.791	72.167
2003/11/03	14:38:05	5.2333	2284.400	72.266
2003/11/03	14:39:05	5.2500	2282.168	72.372
2003/11/03	14:40:05	5.2667	2280.090	72.496
2003/11/03	14:41:05	5.2833	2278.037	72.603
2003/11/03	14:42:05	5.3000	2276.087	72.702
2003/11/03	14:43:05	5.3167	2274.220	72.779
2003/11/03	14:44:05	5.3333	2272.405	72.867
2003/11/03	14:45:05	5.3500	2270.662	72.968
2003/11/03	14:46:05	5.3667	2269.027	73.054
2003/11/03	14:47:05	5.3833	2267.399	73.137
2003/11/03	14:48:05	5.4000	2265.912	73.224
2003/11/03	14:49:05	5.4167	2264.518	73.310
2003/11/03	14:50:05	5.4333	2263.131	73.391
OFF BOTTOM				
2003/11/03	14:50:18	5.4369	2258.434	73.405
2003/11/03	14:51:05	5.4500	2218.145	77.711
2003/11/03	14:52:05	5.4667	2049.185	78.112
2003/11/03	14:53:05	5.4833	1873.196	75.637
2003/11/03	14:54:05	5.5000	1694.531	75.645
2003/11/03	14:55:05	5.5167	1503.965	74.313
2003/11/03	14:56:05	5.5333	1309.970	72.194
2003/11/03	14:57:05	5.5500	1112.632	70.324
2003/11/03	14:58:05	5.5667	930.396	68.324
2003/11/03	14:59:05	5.5833	728.247	66.697
2003/11/03	15:00:05	5.6000	627.005	65.608
2003/11/03	15:01:05	5.6167	632.911	64.942
2003/11/03	15:02:05	5.6333	0.000	64.440
2003/11/03	15:03:05	5.6500	0.000	64.198
2003/11/03	15:04:05	5.6667	0.000	63.174
2003/11/03	15:05:05	5.6833	0.000	61.873

ROOSEVELT SWD #1

SURFACE PRESSURE DATA

STEP RATE TEST

11/3/03

2 3 4 12 14 16 3
Job Data Listing
StimWin v4.6.0

EXHIBIT #4

-1 0 2

Time Pressure 1 Total Rate
(hh:mm:ss (psi) (bpm)
10:19:00 514.6703 0

10:19:05	523.2484	0.7043
10:19:10	535.9515	0.6502
10:19:15	531.3265	0.596
10:19:20	529.0453	0.596
10:19:25	539.014	0.596
10:19:30	533.1078	0.596
10:19:35	525.7797	0.5418
10:19:40	526.1547	0.596
10:19:45	525.6859	0.5418
10:19:50	528.1078	0.5418
10:19:55	531.0765	0.596
10:20:00	530.3265	0.5418
10:20:05	529.3422	0.596
10:20:10	525.4359	0.596
10:20:15	524.4984	0.596
10:20:20	524.7328	0.596
10:20:25	529.1234	0.5418
10:20:30	537.7797	0.5418
10:20:35	537.6234	0.5418
10:20:40	534.8578	0.596
10:20:45	531.889	0.596
10:20:50	531.2015	0.596
10:20:55	533.1547	0.596
10:21:00	534.3109	0.5418
10:21:05	538.6703	0.5418
10:21:10	540.1078	0.596
10:21:15	541.2797	0.596
10:21:20	538.3734	0.596
10:21:25	529.0609	0.596
10:21:30	527.889	0.5418
10:21:35	528.9828	0.596
10:21:40	530.4047	0.596
10:21:45	533.4359	0.596
10:21:50	536.5765	0.596

10:21:55	536.014	0.596
10:22:00	532.4828	0.5418
10:22:05	532.389	0.596
10:22:10	529.6234	0.5418
10:22:15	528.4359	0.596
10:22:20	533.7015	0.596
10:22:25	539.9672	0.596
10:22:30	543.3109	0.596
10:22:35	544.139	0.596
10:22:40	544.5453	0.5418
10:22:45	540.4984	0.596
10:22:50	534.5609	0.596
10:22:55	527.9984	0.596
10:23:00	527.2172	0.5418
10:23:05	529.1078	0.596
10:23:10	531.764	0.596
10:23:15	535.7797	0.596
10:23:20	539.4515	0.596
10:23:25	543.9672	0.596
10:23:30	544.0765	0.596
10:23:35	542.4203	0.5418
10:23:40	539.8734	0.596
10:23:45	538.9359	0.596
10:23:50	534.764	0.596
10:23:55	531.9203	0.596
10:24:00	532.2953	0.596
10:24:05	533.6859	0.596
10:24:10	534.1703	0.596
10:24:15	539.0765	0.596
10:24:20	547.2797	0.596
10:24:25	548.5297	0.596
10:24:30	549.4359	0.596
10:24:35	548.889	0.5418
10:24:40	549.1703	0.596
10:24:45	538.139	0.596
10:24:50	530.6859	0.5418
10:24:55	531.4828	0.596
10:25:00	530.9203	0.596
10:25:05	531.6859	0.596
10:25:10	534.9828	0.596
10:25:15	539.1547	0.596
10:25:20	538.5609	0.596
10:25:25	537.764	0.596
10:25:30	535.9828	0.596
10:25:35	533.6234	0.596
10:25:40	535.5297	0.596
10:25:45	543.264	0.596
10:25:50	551.9203	0.596
10:25:55	551.0609	0.596
10:26:00	548.389	0.596
10:26:05	548.2484	0.596
10:26:10	546.0765	0.596

10:26:15	548.7328	0.596
10:26:20	552.3109	0.596
10:26:25	555.4203	0.596
10:26:30	555.3422	0.596
10:26:35	552.0453	0.5418
10:26:40	544.9984	0.596
10:26:45	543.6859	0.596
10:26:50	547.0297	0.6502
10:26:55	553.5453	0.596
10:27:00	554.0453	0.596
10:27:05	546.9359	0.596
10:27:10	543.2953	0.596
10:27:15	546.4359	0.596
10:27:20	553.1078	0.596
10:27:25	556.7484	0.596
10:27:30	559.1547	0.596
10:27:35	553.5297	0.6502
10:27:40	551.4203	0.596
10:27:45	551.8265	0.596
10:27:50	556.8109	0.596
10:27:55	557.6078	0.596
10:28:00	550.5922	0.596
10:28:05	551.3109	0.5418
10:28:10	555.4984	0.596
10:28:15	559.4359	0.596
10:28:20	557.7797	0.596
10:28:25	555.4672	0.596
10:28:30	548.9984	0.596
10:28:35	550.7172	0.596
10:28:40	554.2015	0.596
10:28:45	557.1703	0.596
10:28:50	556.2484	0.596
10:28:55	551.3265	0.596
10:29:00	551.7015	0.596
10:29:05	553.764	0.596
10:29:10	558.4047	0.596
10:29:15	558.0922	0.6502
10:29:20	557.514	0.596
10:29:25	552.1859	0.596
10:29:30	551.9672	0.596
10:29:35	553.4984	0.596
10:29:40	557.5453	0.596
10:29:45	557.8734	0.596
10:29:50	551.0453	0.596
10:29:55	546.8734	0.596
10:30:00	551.8265	0.596
10:30:05	561.7172	0.596
10:30:10	559.5609	0.596
10:30:15	555.1234	0.596
10:30:20	545.5453	0.596
10:30:25	534.9203	0.596
10:30:30	542.7172	0.596

10:30:35	555.2172	0.596
10:30:40	551.3265	0.596
10:30:45	539.9047	0.596
10:30:50	536.5453	0.596
10:30:55	536.2484	0.596
10:31:00	544.7953	0.596
10:31:05	547.3109	0.596
10:31:10	535.9984	0.596
10:31:15	529.9047	0.596
10:31:20	526.5297	0.596
10:31:25	531.8109	0.596
10:31:30	533.9203	0.596
10:31:35	534.0609	0.596
10:31:40	530.3422	0.6502
10:31:45	532.4047	0.596
10:31:50	545.1078	0.596
10:31:55	542.5297	0.596
10:32:00	533.014	0.596
10:32:05	532.1703	0.596
10:32:10	543.7172	0.596
10:32:15	556.3265	0.596
10:32:20	563.8578	0.596
10:32:25	559.9359	0.596
10:32:30	551.7953	0.596
10:32:35	561.014	0.596
10:32:40	562.6234	0.596
10:32:45	558.2484	0.596
10:32:50	554.1703	0.596
10:32:55	557.7484	0.596
10:33:00	568.5453	0.5418
10:33:05	559.4047	0.596
10:33:10	545.4984	0.596
10:33:15	533.7172	0.596
10:33:20	526.7015	0.6502
10:33:25	535.3578	0.596
10:33:30	535.2328	0.596
10:33:35	532.6078	0.596
10:33:40	538.4828	0.596
10:33:45	544.9203	0.596
10:33:50	555.4984	0.596
10:33:55	547.7484	0.596
10:34:00	549.2797	0.596
10:34:05	565.9672	0.596
10:34:10	568.7015	0.596
10:34:15	560.4828	0.596
10:34:20	541.2484	0.596
	542.9735	0.592465
10:34:25	553.4672	0.7585
10:34:30	571.514	0.9752
10:34:35	564.8734	1.0294

10:34:40	561.9359	1.0294
10:34:45	566.4203	1.0294
10:34:50	565.9203	1.0294
10:34:55	566.0765	1.0294
10:35:00	568.7484	1.0294
10:35:05	562.4828	1.0294
10:35:10	568.4515	0.9752
10:35:15	569.1703	0.9752
10:35:20	564.0297	1.0294
10:35:25	569.8265	1.0294
10:35:30	567.9515	1.0294
10:35:35	565.2797	1.0294
10:35:40	570.5297	1.0294
10:35:45	566.7172	0.9752
10:35:50	566.7328	1.0294
10:35:55	569.9984	1.0294
10:36:00	569.8734	0.9752
10:36:05	569.1078	1.0294
10:36:10	568.7328	1.0294
10:36:15	568.9515	1.0294
10:36:20	569.7172	1.0294
10:36:25	570.4515	1.0294
10:36:30	570.3734	1.0294
10:36:35	570.9984	1.0294
10:36:40	570.7484	1.0294
10:36:45	571.5453	1.0294
10:36:50	569.7015	0.9752
10:36:55	570.2797	1.0294
10:37:00	570.6703	1.0294
10:37:05	570.639	0.9752
10:37:10	571.5609	1.0294
10:37:15	571.2953	1.0294
10:37:20	572.6234	1.0294
10:37:25	571.9047	1.0294
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