

DATE 10/3/2013	SUSPENSE	ENGINEER PRG	LOGGED IN 10/4/13	TYPE IPI 456	APP NO. PPRG1328034483
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location]** **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**
- [DHC-Downhole Commingling]** **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**
- [PC-Pool Commingling]** **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**
- [WFX-Waterflood Expansion]** **[PMX-Pressure Maintenance Expansion]**
- [SWD-Salt Water Disposal]** **[IPI-Injection Pressure Increase]**
- [EOR-Qualified Enhanced Oil Recovery Certification]** **[PPR-Positive Production Response]**

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify SWD - 1084

*Kaiser - Francis Oil
 North Bell Lake Unit 4#15
 30-025-24771*

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ~~Does Not Apply~~
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

David Zerger *David Zerger* Petroleum Engineer 10/3/13
 Print or Type Name Signature Title Date
David.Z@KFOC.net
 e-mail Address

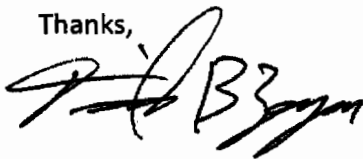
October 3, 2013

Mr. Goetze,

Please find the attached data from our step-rate test on the Bell Lake 4-15 SWD (API 30-025-24771) conducted on 9/24/13. After we turned off our injection pump and our wellhead pressure stabilized, we conducted a step-rate test with nine successively-higher injection rates. Our final rate was 3.9 BPM (5616 B/D) with a surface injection pressure of 1920# (1242# when corrected to compensate for friction). The test was observed by a NMOCD field inspector. The corrected pressures were plotted vs. rate (see attached). A break-over point was not observed however, so we feel we will not be fracturing the formation if we are allowed to increase our permitted surface injection pressure from the current 1012# to 1900#. Please note that during the test, actual bottom hole pressure only increased by ~330#. Most of the pressure increase at the surface was due to friction.

I have included the raw data from our step-rate test as well for you review. Please let me know if you need any other information or have any additional questions.

Thanks,

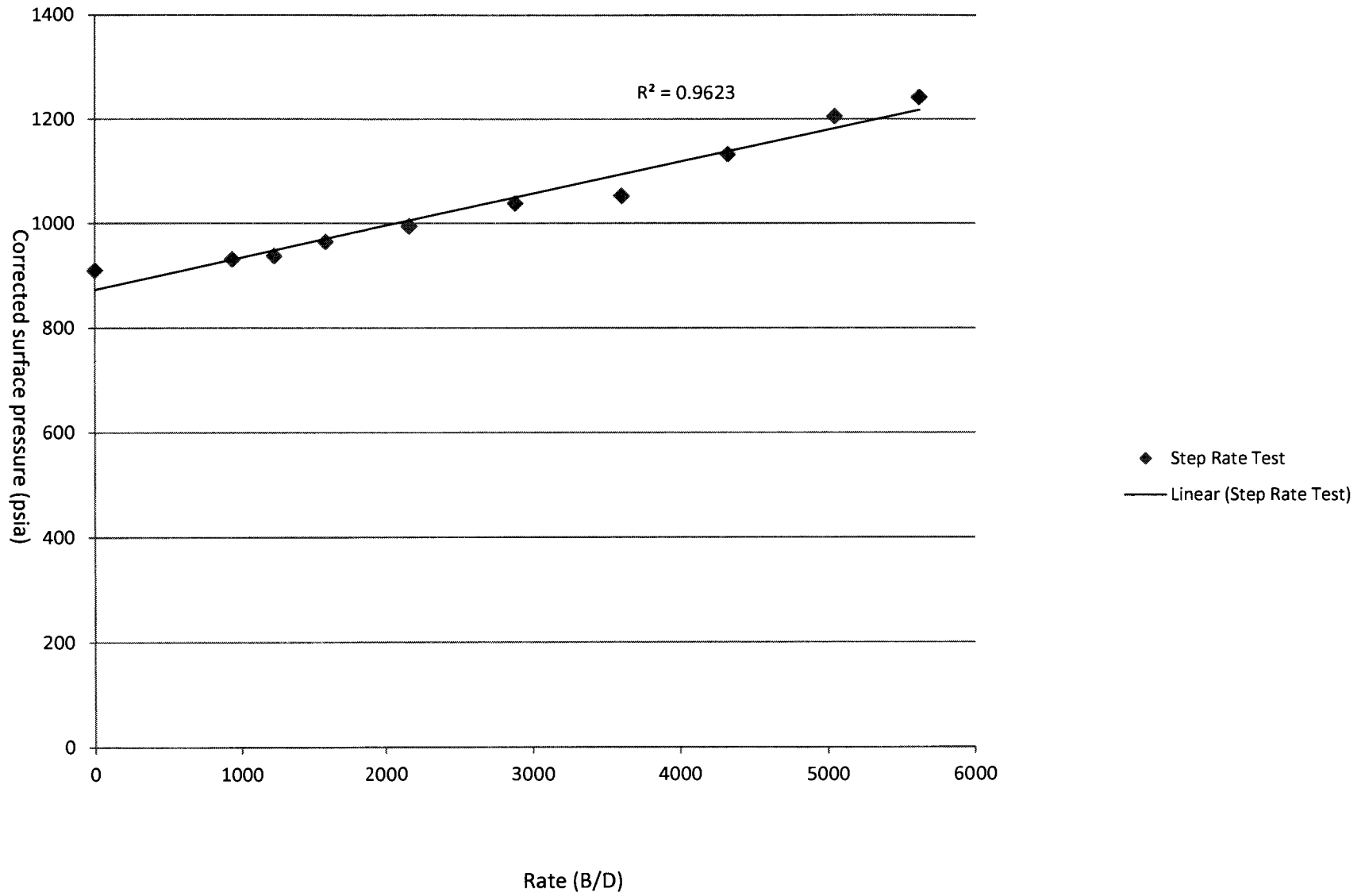


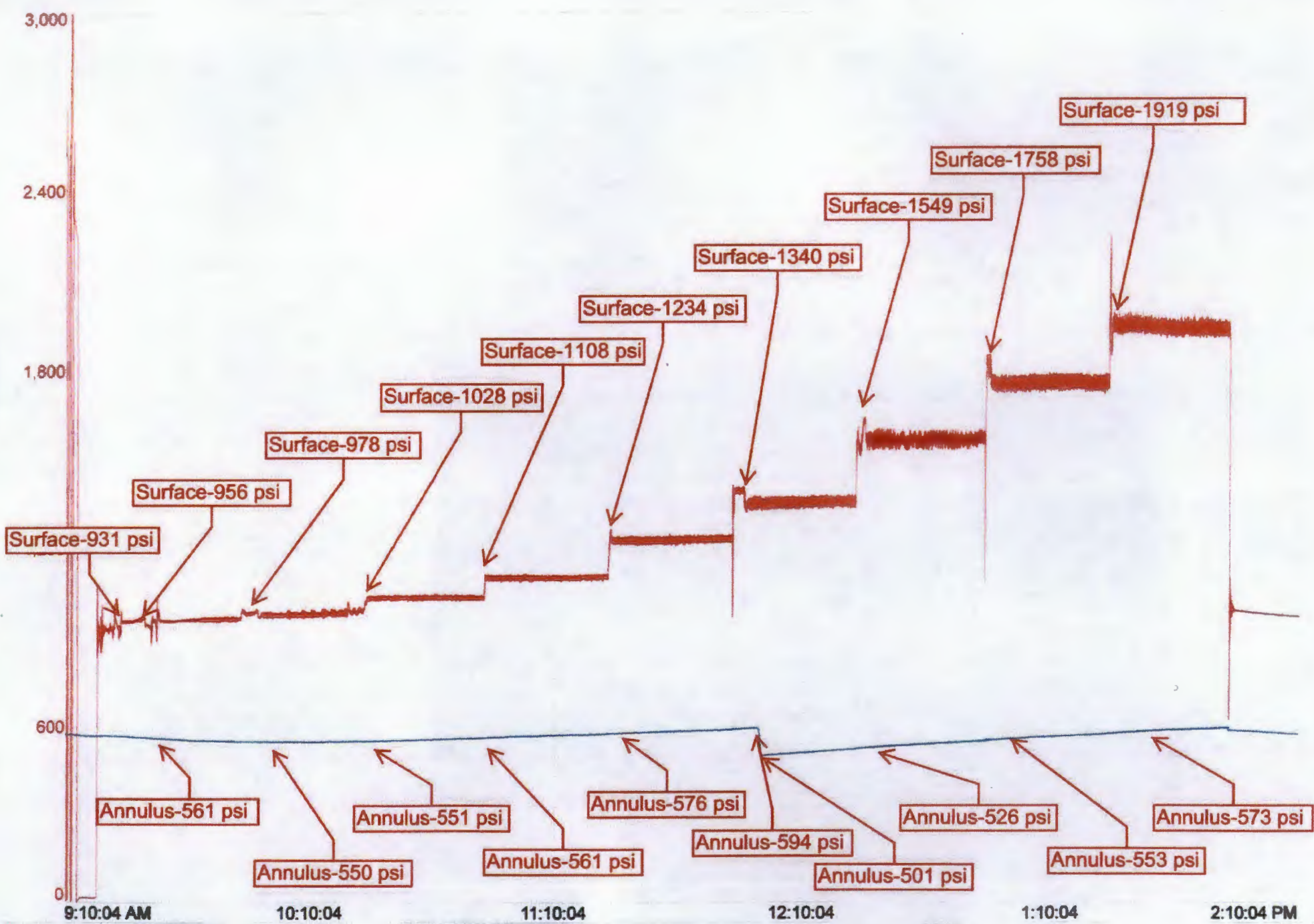
David Zerger
Petroleum Engineer
Kaiser-Francis Oil Company
918-491-4350 Office
918-557-6708 Mobile

$$\begin{array}{r} 1920 \text{ psi} \\ - 50 \text{ psi} \\ \hline 1870 \text{ psi} \end{array}$$

$$\frac{1870 \text{ psi}}{5060 \text{ ft}} = 0.37 \text{ psi/ft}$$

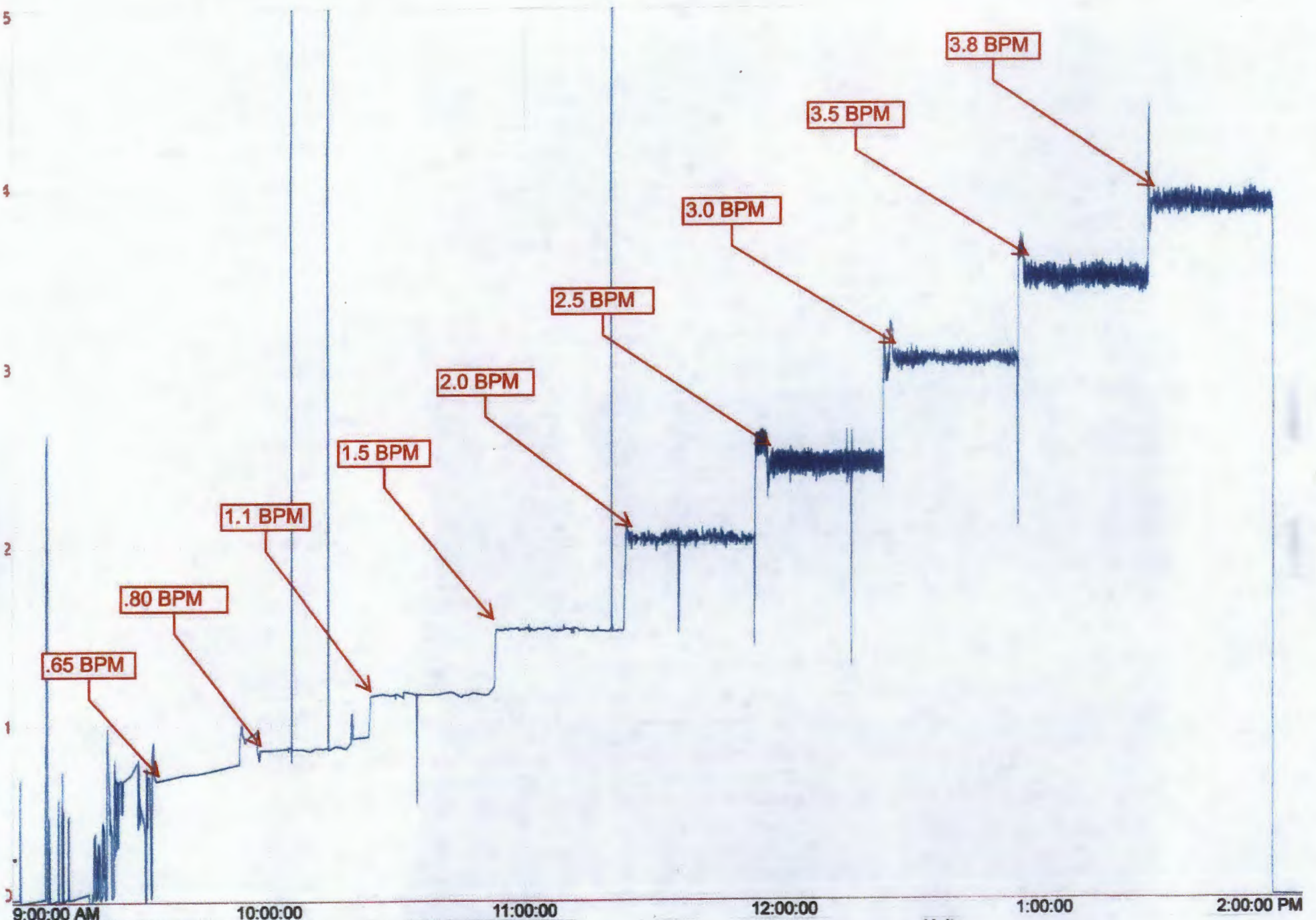
Step Rate Test





9:10:04 AM 10:10:04 11:10:04 12:10:04 1:10:04 2:10:04 PM
 Caption 9:36:48 AM Min Max
 DataServer.Data:RSLinx Enterprise:CmLX.A -671 03,000
 DataServer.Data:RSLinx Enterprise:CmLX.A -799 03,000

Units



3:02:37 PM MinMax

Units	Min	Max
DataServer.Data:RSLinx Enterprise:CmLX.T	0	5
DataServer.Data:RSLinx Enterprise:CmLX.T	0	5

Time	Well Head Pressure	Annulus Pressure	Flow Rate 1	Flow Rate 2	Total Barrels 1	Total Barr
09/24/13 09:00:00	-7	582	0.000	0.018	0	
09/24/13 09:00:15	-5	582	0.000	0.018	0	
09/24/13 09:00:30	-3	582	0.000	0.019	0	
09/24/13 09:00:45	-2	582	0.000	0.019	0	
09/24/13 09:01:00	0	582	0.000	0.019	0	
09/24/13 09:01:15	2	582	0.000	0.019	0	
09/24/13 09:01:30	4	582	0.000	0.019	0	
09/24/13 09:01:45	7	582	0.000	0.020	0	
09/24/13 09:02:00	9	582	0.000	0.000	0	
09/24/13 09:02:15	11	582	0.000	0.001	0	
09/24/13 09:02:30	14	582	0.000	0.002	0	
09/24/13 09:02:45	16	582	0.000	0.004	0	
09/24/13 09:03:00	18	582	0.000	0.005	0	
09/24/13 09:03:15	20	582	0.000	0.006	0	
09/24/13 09:03:30	23	583	0.000	0.007	0	
09/24/13 09:03:45	25	583	0.000	0.008	0	
09/24/13 09:04:00	27	583	0.000	0.009	0	
09/24/13 09:04:15	30	583	0.000	0.010	0	
09/24/13 09:04:30	32	582	0.000	0.011	0	
09/24/13 09:04:45	34	582	0.000	0.012	0	
09/24/13 09:05:00	36	582	0.000	0.013	0	
09/24/13 09:05:15	39	582	0.000	0.014	0	
09/24/13 09:05:30	41	582	0.000	0.015	0	
09/24/13 09:05:45	43	582	0.000	0.016	0	
09/24/13 09:06:00	46	582	0.000	0.018	0	
09/24/13 09:06:15	48	582	0.000	0.019	0	
09/24/13 09:06:30	50	581	0.000	0.020	0	
09/24/13 09:06:45	52	581	0.000	0.021	0	
09/24/13 09:07:00	55	580	0.000	0.022	0	
09/24/13 09:07:15	57	580	0.000	0.023	0	
09/24/13 09:07:30	0	580	0.000	0.024	0	
09/24/13 09:07:45	1	580	0.000	0.695	0	
09/24/13 09:08:00	9	580	0.000	1.909	0	
09/24/13 09:08:15	0	579	0.000	0.002	0	
09/24/13 09:08:30	4	579	0.000	0.026	0	
09/24/13 09:08:45	997	579	0.000	0.000	0	
09/24/13 09:09:00	2013	579	0.000	0.003	0	
09/24/13 09:09:15	1949	579	0.000	0.005	0	
09/24/13 09:09:30	1923	578	0.000	0.008	0	
09/24/13 09:09:45	2795	578	0.000	0.010	0	
09/24/13 09:10:00	2760	578	0.000	0.013	0	
09/24/13 09:10:15	2534	578	0.000	0.015	0	
09/24/13 09:10:30	13	577	0.000	0.018	0	
09/24/13 09:10:45	123	577	0.000	0.520	0	

09/24/13 09:11:00	2331	577	0.000	0.012	0
09/24/13 09:11:15	3144	577	0.000	0.010	0
09/24/13 09:11:30	1981	577	0.000	0.009	0
09/24/13 09:11:45	12	576	0.000	0.003	0
09/24/13 09:12:00	2481	576	0.000	0.009	0
09/24/13 09:12:15	2320	576	0.000	0.014	0
09/24/13 09:12:30	2289	575	0.000	0.020	0
09/24/13 09:12:45	2269	575	0.000	0.025	0
09/24/13 09:13:00	961	575	0.000	0.030	0
09/24/13 09:13:15	10	574	0.000	0.018	0
09/24/13 09:13:30	12	574	0.000	0.019	0
09/24/13 09:13:45	18	574	0.000	0.021	0
09/24/13 09:14:00	21	574	0.000	0.023	0
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09/24/13 09:14:45	20	572	0.000	0.029	0
09/24/13 09:15:00	20	572	0.000	0.030	0
09/24/13 09:15:15	20	572	0.000	0.032	0
09/24/13 09:15:30	19	572	0.000	0.034	0
09/24/13 09:15:45	19	572	0.000	0.036	0
09/24/13 09:16:00	19	572	0.000	0.038	0
09/24/13 09:16:15	19	572	0.000	0.040	0
09/24/13 09:16:30	19	572	0.000	0.041	0
09/24/13 09:16:45	18	572	0.000	0.043	0
09/24/13 09:17:00	18	572	0.000	0.045	0
09/24/13 09:17:15	18	572	0.000	0.047	0
09/24/13 09:17:30	19	572	0.000	0.049	0
09/24/13 09:17:45	22	571	0.000	0.050	0
09/24/13 09:18:00	957	573	0.000	0.000	0
09/24/13 09:18:15	894	572	0.000	0.000	0
09/24/13 09:18:30	932	571	0.000	0.000	0
09/24/13 09:18:45	936	571	0.000	0.022	0
09/24/13 09:19:00	876	572	0.000	0.078	0
09/24/13 09:19:15	947	572	0.000	0.288	0
09/24/13 09:19:30	932	572	0.000	0.027	0
09/24/13 09:19:45	929	572	0.000	0.202	0
09/24/13 09:20:00	933	572	0.000	0.144	0
09/24/13 09:20:15	936	572	0.000	0.307	0
09/24/13 09:20:30	929	572	0.000	0.013	0
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09/24/13 09:21:15	936	572	0.000	0.428	0
09/24/13 09:21:30	936	571	0.000	0.137	0
09/24/13 09:21:45	905	571	0.000	0.025	0
09/24/13 09:22:00	933	571	0.000	0.041	0

09/24/13 09:22:15	984	572	0.000	0.890	0
09/24/13 09:22:30	958	571	0.000	0.693	0
09/24/13 09:22:45	945	570	0.000	0.522	0
09/24/13 09:23:00	942	570	0.000	0.429	0
09/24/13 09:23:15	944	570	0.000	0.026	0
09/24/13 09:23:30	913	570	0.000	0.036	0
09/24/13 09:23:45	948	570	0.000	0.508	0
09/24/13 09:24:00	963	570	0.000	0.334	0
09/24/13 09:24:15	955	569	0.000	0.687	0
09/24/13 09:24:30	963	569	0.000	0.675	0
09/24/13 09:24:45	960	569	0.000	0.672	0
09/24/13 09:25:00	961	569	0.000	0.682	0
09/24/13 09:25:15	960	569	0.000	0.692	0
09/24/13 09:25:30	963	569	0.000	0.674	0
09/24/13 09:25:45	957	568	0.000	0.602	0
09/24/13 09:26:00	959	568	0.000	0.690	0
09/24/13 09:26:15	961	568	0.000	0.695	0
09/24/13 09:26:30	962	567	0.000	0.700	0
09/24/13 09:26:45	961	567	0.000	0.705	0
09/24/13 09:27:00	963	567	0.000	0.711	0
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09/24/13 09:27:30	966	566	0.000	0.721	0
09/24/13 09:27:45	963	566	0.000	0.727	0
09/24/13 09:28:00	966	566	0.000	0.739	0
09/24/13 09:28:15	969	566	0.000	0.750	0
09/24/13 09:28:30	969	566	0.000	0.762	0
09/24/13 09:28:45	967	565	0.000	0.774	0
09/24/13 09:29:00	970	565	0.000	0.785	0
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09/24/13 09:29:45	949	565	0.000	0.494	0
09/24/13 09:30:00	946	564	0.000	0.530	0
09/24/13 09:30:15	946	564	0.000	0.503	0
09/24/13 09:30:30	941	564	0.000	0.477	0
09/24/13 09:30:45	937	564	0.000	0.450	0
09/24/13 09:31:00	920	563	0.000	0.270	0
09/24/13 09:31:15	954	563	0.000	0.046	0
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09/24/13 09:31:45	960	563	0.000	0.708	0
09/24/13 09:32:00	961	563	0.000	0.709	0
09/24/13 09:32:15	939	563	0.000	0.459	0
09/24/13 09:32:30	935	563	0.000	0.053	0
09/24/13 09:32:45	987	562	0.000	0.866	0
09/24/13 09:33:00	968	562	0.000	0.816	0
09/24/13 09:33:15	962	562	0.000	0.711	0

09/24/13 09:33:30	964	562	0.000	0.689	0
09/24/13 09:33:45	960	561	0.000	0.687	0
09/24/13 09:34:00	958	561	0.000	0.689	0
09/24/13 09:34:15	961	561	0.000	0.690	0
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09/24/13 09:35:00	958	560	0.000	0.695	0
09/24/13 09:35:15	960	560	0.000	0.696	0
09/24/13 09:35:30	962	560	0.000	0.697	0
09/24/13 09:35:45	961	559	0.000	0.699	0
09/24/13 09:36:00	961	559	0.000	0.700	0
09/24/13 09:36:15	962	559	0.000	0.702	0
09/24/13 09:36:30	957	559	0.000	0.703	0
09/24/13 09:36:45	961	559	0.000	0.704	0
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09/24/13 09:37:30	963	559	0.000	0.709	0
09/24/13 09:37:45	964	558	0.000	0.710	0
09/24/13 09:38:00	961	558	0.000	0.711	0
09/24/13 09:38:15	963	558	0.000	0.713	0
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09/24/13 09:38:45	962	557	0.000	0.716	0
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09/24/13 09:39:15	964	557	0.000	0.718	0
09/24/13 09:39:30	963	557	0.000	0.720	0
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09/24/13 09:40:00	961	556	0.000	0.723	0
09/24/13 09:40:15	965	556	0.000	0.723	0
09/24/13 09:40:30	966	555	0.000	0.723	0
09/24/13 09:40:45	965	555	0.000	0.724	0
09/24/13 09:41:00	964	555	0.000	0.724	0
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09/24/13 09:42:30	963	554	0.000	0.726	0
09/24/13 09:42:45	963	554	0.000	0.727	0
09/24/13 09:43:00	967	554	0.000	0.728	0
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09/24/13 09:46:30	969	554	0.000	0.745	0
09/24/13 09:46:45	972	553	0.000	0.746	0
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09/24/13 09:47:15	968	553	0.000	0.749	0
09/24/13 09:47:30	961	553	0.000	0.750	0
09/24/13 09:47:45	962	553	0.000	0.752	0
09/24/13 09:48:00	966	553	0.000	0.753	0
09/24/13 09:48:15	969	553	0.000	0.755	0
09/24/13 09:48:30	962	552	0.000	0.756	0
09/24/13 09:48:45	964	552	0.000	0.757	0
09/24/13 09:49:00	962	552	0.000	0.759	0
09/24/13 09:49:15	966	552	0.000	0.760	0
09/24/13 09:49:30	964	552	0.000	0.762	0
09/24/13 09:49:45	963	552	0.000	0.763	0
09/24/13 09:50:00	968	552	0.000	0.764	0
09/24/13 09:50:15	965	552	0.000	0.766	0
09/24/13 09:50:30	969	552	0.000	0.767	0
09/24/13 09:50:45	964	552	0.000	0.769	0
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09/24/13 09:51:30	967	552	0.000	0.773	0
09/24/13 09:51:45	969	552	0.000	0.774	0
09/24/13 09:52:00	971	551	0.000	0.776	0
09/24/13 09:52:15	968	551	0.000	0.777	0
09/24/13 09:52:30	967	551	0.000	0.778	0
09/24/13 09:52:45	967	551	0.000	0.780	0
09/24/13 09:53:00	987	552	0.000	0.857	0
09/24/13 09:53:15	991	552	0.000	0.955	0
09/24/13 09:53:30	998	551	0.000	1.000	0
09/24/13 09:53:45	989	552	0.000	0.941	0
09/24/13 09:54:00	986	552	0.000	0.933	0
09/24/13 09:54:15	978	551	0.000	0.900	0
09/24/13 09:54:30	982	551	0.000	0.908	0
09/24/13 09:54:45	990	551	0.000	0.917	0
09/24/13 09:55:00	980	551	0.000	0.926	0
09/24/13 09:55:15	982	551	0.000	0.935	0
09/24/13 09:55:30	989	551	0.000	0.940	0
09/24/13 09:55:45	988	551	0.000	0.942	0

09/24/13 09:56:00	985	551	0.000	0.943	0
09/24/13 09:56:15	989	551	0.000	0.947	0
09/24/13 09:56:30	992	552	0.000	0.953	0
09/24/13 09:56:45	993	552	0.000	0.960	0
09/24/13 09:57:00	993	551	0.000	0.966	0
09/24/13 09:57:15	975	550	0.000	0.846	0
09/24/13 09:57:30	974	551	0.000	0.815	0
09/24/13 09:57:45	976	550	0.000	0.838	0
09/24/13 09:58:00	977	550	0.000	0.860	0
09/24/13 09:58:15	989	551	0.000	0.860	0
09/24/13 09:58:30	971	551	0.000	0.860	0
09/24/13 09:58:45	978	551	0.000	0.860	0
09/24/13 09:59:00	975	551	0.000	0.859	0
09/24/13 09:59:15	978	551	0.000	0.860	0
09/24/13 09:59:30	977	551	0.000	0.860	0
09/24/13 09:59:45	982	549	0.000	0.860	0
09/24/13 10:00:00	982	550	0.000	0.860	0
09/24/13 10:00:15	988	550	0.000	0.860	0
09/24/13 10:00:30	985	551	0.000	0.860	0
09/24/13 10:00:45	985	550	0.000	0.860	0
09/24/13 10:01:00	983	550	0.000	0.860	0
09/24/13 10:01:15	979	550	0.000	0.860	0
09/24/13 10:01:30	975	550	0.000	0.860	0
09/24/13 10:01:45	977	551	0.000	0.861	0
09/24/13 10:02:00	983	551	0.000	0.862	0
09/24/13 10:02:15	979	551	0.000	0.862	0
09/24/13 10:02:30	987	550	0.000	0.863	0
09/24/13 10:02:45	985	550	0.000	0.864	0
09/24/13 10:03:00	985	551	0.000	0.865	0
09/24/13 10:03:15	979	550	0.000	0.865	0
09/24/13 10:03:30	975	551	0.000	0.866	0
09/24/13 10:03:45	984	550	0.000	0.867	0
09/24/13 10:04:00	979	550	0.000	0.867	0
09/24/13 10:04:15	977	551	0.000	0.868	0
09/24/13 10:04:30	992	551	0.000	0.876	0
09/24/13 10:04:45	992	551	0.000	0.874	0
09/24/13 10:05:00	990	551	0.000	0.872	0
09/24/13 10:05:15	978	551	0.000	0.864	0
09/24/13 10:05:30	982	551	0.000	0.864	0
09/24/13 10:05:45	985	551	0.000	0.864	0
09/24/13 10:06:00	987	550	0.000	0.864	0
09/24/13 10:06:15	978	550	0.000	0.864	0
09/24/13 10:06:30	976	551	0.000	0.864	0
09/24/13 10:06:45	970	551	0.000	0.864	0
09/24/13 10:07:00	976	550	0.000	0.864	0

09/24/13 10:07:15	980	551	0.000	0.864	0
09/24/13 10:07:30	983	551	0.000	0.864	0
09/24/13 10:07:45	980	551	0.000	0.863	0
09/24/13 10:08:00	996	550	0.000	0.861	0
09/24/13 10:08:15	990	551	0.000	0.860	0
09/24/13 10:08:30	975	550	0.000	0.858	0
09/24/13 10:08:45	982	550	0.000	0.857	0
09/24/13 10:09:00	981	550	0.000	0.855	0
09/24/13 10:09:15	984	550	0.000	0.854	0
09/24/13 10:09:30	980	550	0.000	0.853	0
09/24/13 10:09:45	984	550	0.000	0.857	0
09/24/13 10:10:00	979	550	0.000	0.860	0
09/24/13 10:10:15	988	550	0.000	0.863	0
09/24/13 10:10:30	978	550	0.000	0.866	0
09/24/13 10:10:45	986	550	0.000	0.868	0
09/24/13 10:11:00	979	551	0.000	0.868	0
09/24/13 10:11:15	981	550	0.000	0.868	0
09/24/13 10:11:30	986	550	0.000	0.868	0
09/24/13 10:11:45	988	550	0.000	0.867	0
09/24/13 10:12:00	983	551	0.000	0.867	0
09/24/13 10:12:15	981	550	0.000	0.867	0
09/24/13 10:12:30	982	550	0.000	0.867	0
09/24/13 10:12:45	986	550	0.000	0.868	0
09/24/13 10:13:00	976	550	0.000	0.869	0
09/24/13 10:13:15	1000	550	0.000	0.871	0
09/24/13 10:13:30	980	550	0.000	0.872	0
09/24/13 10:13:45	991	551	0.000	208.282	0
09/24/13 10:14:00	995	551	0.000	0.861	0
09/24/13 10:14:15	987	551	0.000	0.865	0
09/24/13 10:14:30	985	550	0.000	0.868	0
09/24/13 10:14:45	988	551	0.000	0.872	0
09/24/13 10:15:00	985	551	0.000	0.875	0
09/24/13 10:15:15	1000	551	0.000	0.879	0
09/24/13 10:15:30	997	552	0.000	0.882	0
09/24/13 10:15:45	981	551	0.000	0.881	0
09/24/13 10:16:00	993	551	0.000	0.880	0
09/24/13 10:16:15	989	551	0.000	0.879	0
09/24/13 10:16:30	979	551	0.000	0.878	0
09/24/13 10:16:45	992	551	0.000	0.877	0
09/24/13 10:17:00	986	550	0.000	0.875	0
09/24/13 10:17:15	986	551	0.000	0.872	0
09/24/13 10:17:30	982	551	0.000	0.869	0
09/24/13 10:17:45	988	551	0.000	0.866	0
09/24/13 10:18:00	982	551	0.000	0.869	0
09/24/13 10:18:15	985	552	0.000	0.876	0

09/24/13 10:18:30	990	551	0.000	0.884	0
09/24/13 10:18:45	1003	551	0.000	0.891	0
09/24/13 10:19:00	983	551	0.000	0.898	0
09/24/13 10:19:15	1014	551	0.000	1.066	0
09/24/13 10:19:30	1013	551	0.000	1.046	0
09/24/13 10:19:45	987	552	0.000	0.926	0
09/24/13 10:20:00	982	551	0.000	0.926	0
09/24/13 10:20:15	984	551	0.000	0.927	0
09/24/13 10:20:30	990	551	0.000	0.928	0
09/24/13 10:20:45	996	551	0.000	0.928	0
09/24/13 10:21:00	986	552	0.000	0.929	0
09/24/13 10:21:15	991	553	0.000	0.930	0
09/24/13 10:21:30	989	552	0.000	0.930	0
09/24/13 10:21:45	1000	552	0.000	0.931	0
09/24/13 10:22:00	1006	552	0.000	0.932	0
09/24/13 10:22:15	995	552	0.000	0.932	0
09/24/13 10:22:30	990	552	0.000	0.933	0
09/24/13 10:22:45	990	552	0.000	0.933	0
09/24/13 10:23:00	1002	551	0.000	0.934	0
09/24/13 10:23:15	997	551	0.000	0.939	0
09/24/13 10:23:30	1013	552	0.000	1.065	0
09/24/13 10:23:45	1029	552	0.000	1.163	0
09/24/13 10:24:00	1034	552	0.000	1.162	0
09/24/13 10:24:15	1034	552	0.000	1.163	0
09/24/13 10:24:30	1036	553	0.000	1.164	0
09/24/13 10:24:45	1036	552	0.000	1.166	0
09/24/13 10:25:00	1036	552	0.000	1.167	0
09/24/13 10:25:15	1033	552	0.000	1.168	0
09/24/13 10:25:30	1036	552	0.000	1.169	0
09/24/13 10:25:45	1040	553	0.000	1.170	0
09/24/13 10:26:00	1035	553	0.000	1.171	0
09/24/13 10:26:15	1039	553	0.000	1.173	0
09/24/13 10:26:30	1039	553	0.000	1.174	0
09/24/13 10:26:45	1036	553	0.000	1.173	0
09/24/13 10:27:00	1040	553	0.000	1.171	0
09/24/13 10:27:15	1035	553	0.000	1.170	0
09/24/13 10:27:30	1039	554	0.000	1.169	0
09/24/13 10:27:45	1046	554	0.000	1.168	0
09/24/13 10:28:00	1035	554	0.000	1.167	0
09/24/13 10:28:15	1040	553	0.000	1.165	0
09/24/13 10:28:30	1041	553	0.000	1.165	0
09/24/13 10:28:45	1037	553	0.000	1.167	0
09/24/13 10:29:00	1042	554	0.000	1.168	0
09/24/13 10:29:15	1038	554	0.000	1.170	0
09/24/13 10:29:30	1034	554	0.000	1.151	0

09/24/13 10:29:45	1035	554	0.000	1.175	0
09/24/13 10:30:00	1039	554	0.000	1.172	0
09/24/13 10:30:15	1042	555	0.000	1.169	0
09/24/13 10:30:30	1045	555	0.000	1.166	0
09/24/13 10:30:45	1038	555	0.000	1.164	0
09/24/13 10:31:00	1044	554	0.000	1.161	0
09/24/13 10:31:15	1040	554	0.000	1.158	0
09/24/13 10:31:30	1042	555	0.000	1.186	0
09/24/13 10:31:45	1042	555	0.000	1.185	0
09/24/13 10:32:00	1036	554	0.000	1.183	0
09/24/13 10:32:15	1047	554	0.000	1.182	0
09/24/13 10:32:30	1039	555	0.000	1.181	0
09/24/13 10:32:45	1040	555	0.000	1.180	0
09/24/13 10:33:00	1041	555	0.000	1.178	0
09/24/13 10:33:15	1037	555	0.000	1.177	0
09/24/13 10:33:30	1043	556	0.000	1.176	0
09/24/13 10:33:45	1043	556	0.000	1.174	0
09/24/13 10:34:00	1035	556	0.000	1.173	0
09/24/13 10:34:15	1036	556	0.000	1.169	0
09/24/13 10:34:30	1040	556	0.000	1.163	0
09/24/13 10:34:45	1041	556	0.000	1.169	0
09/24/13 10:35:00	1043	556	0.000	1.170	0
09/24/13 10:35:15	1039	556	0.000	1.172	0
09/24/13 10:35:30	1045	556	0.000	1.174	0
09/24/13 10:35:45	1040	556	0.000	1.172	0
09/24/13 10:36:00	1037	556	0.000	1.171	0
09/24/13 10:36:15	1039	556	0.000	1.170	0
09/24/13 10:36:30	1032	557	0.000	1.170	0
09/24/13 10:36:45	1038	557	0.000	1.170	0
09/24/13 10:37:00	1040	557	0.000	1.170	0
09/24/13 10:37:15	1037	557	0.000	1.170	0
09/24/13 10:37:30	1032	557	0.000	1.170	0
09/24/13 10:37:45	1034	557	0.000	1.170	0
09/24/13 10:38:00	1039	557	0.000	1.170	0
09/24/13 10:38:15	1031	558	0.000	1.170	0
09/24/13 10:38:30	1042	557	0.000	1.170	0
09/24/13 10:38:45	1041	558	0.000	1.170	0
09/24/13 10:39:00	1033	558	0.000	1.171	0
09/24/13 10:39:15	1032	557	0.000	1.171	0
09/24/13 10:39:30	1040	557	0.000	1.171	0
09/24/13 10:39:45	1038	557	0.000	1.171	0
09/24/13 10:40:00	1031	557	0.000	1.172	0
09/24/13 10:40:15	1038	558	0.000	1.173	0
09/24/13 10:40:30	1039	558	0.000	1.174	0
09/24/13 10:40:45	1040	558	0.000	1.175	0

09/24/13 10:41:00	1036	558	0.000	1.176	0
09/24/13 10:41:15	1032	558	0.000	1.177	0
09/24/13 10:41:30	1037	558	0.000	1.178	0
09/24/13 10:41:45	1042	558	0.000	1.179	0
09/24/13 10:42:00	1040	558	0.000	1.180	0
09/24/13 10:42:15	1034	558	0.000	1.181	0
09/24/13 10:42:30	1041	558	0.000	1.183	0
09/24/13 10:42:45	1036	558	0.000	1.184	0
09/24/13 10:43:00	1046	558	0.000	1.184	0
09/24/13 10:43:15	1040	558	0.000	1.180	0
09/24/13 10:43:30	1042	558	0.000	1.177	0
09/24/13 10:43:45	1039	558	0.000	1.174	0
09/24/13 10:44:00	1042	559	0.000	1.171	0
09/24/13 10:44:15	1042	558	0.000	1.168	0
09/24/13 10:44:30	1040	559	0.000	1.164	0
09/24/13 10:44:45	1037	559	0.000	1.161	0
09/24/13 10:45:00	1031	558	0.000	1.158	0
09/24/13 10:45:15	1039	559	0.000	1.155	0
09/24/13 10:45:30	1042	559	0.000	1.166	0
09/24/13 10:45:45	1037	559	0.000	1.166	0
09/24/13 10:46:00	1034	560	0.000	1.166	0
09/24/13 10:46:15	1038	560	0.000	1.166	0
09/24/13 10:46:30	1039	560	0.000	1.166	0
09/24/13 10:46:45	1041	560	0.000	1.166	0
09/24/13 10:47:00	1037	560	0.000	1.166	0
09/24/13 10:47:15	1034	560	0.000	1.170	0
09/24/13 10:47:30	1043	560	0.000	1.173	0
09/24/13 10:47:45	1038	560	0.000	1.176	0
09/24/13 10:48:00	1036	560	0.000	1.178	0
09/24/13 10:48:15	1042	560	0.000	1.177	0
09/24/13 10:48:30	1040	560	0.000	1.176	0
09/24/13 10:48:45	1040	560	0.000	1.175	0
09/24/13 10:49:00	1038	561	0.000	1.174	0
09/24/13 10:49:15	1043	561	0.000	1.173	0
09/24/13 10:49:30	1038	560	0.000	1.172	0
09/24/13 10:49:45	1037	560	0.000	1.170	0
09/24/13 10:50:00	1035	561	0.000	1.169	0
09/24/13 10:50:15	1038	561	0.000	1.168	0
09/24/13 10:50:30	1034	560	0.000	1.167	0
09/24/13 10:50:45	1030	560	0.000	1.166	0
09/24/13 10:51:00	1035	560	0.000	1.167	0
09/24/13 10:51:15	1037	560	0.000	1.167	0
09/24/13 10:51:30	1040	560	0.000	1.171	0
09/24/13 10:51:45	1034	561	0.000	1.178	0
09/24/13 10:52:00	1042	562	0.000	1.186	0

09/24/13 10:52:15	1040	561	0.000	1.193	0
09/24/13 10:52:30	1037	561	0.000	1.200	0
09/24/13 10:52:45	1039	561	0.000	1.208	0
09/24/13 10:53:00	1072	562	0.000	1.340	0
09/24/13 10:53:15	1099	562	0.000	1.525	0
09/24/13 10:53:30	1107	563	0.000	1.538	0
09/24/13 10:53:45	1107	563	0.000	1.536	0
09/24/13 10:54:00	1106	562	0.000	1.533	0
09/24/13 10:54:15	1105	563	0.000	1.533	0
09/24/13 10:54:30	1098	562	0.000	1.533	0
09/24/13 10:54:45	1103	563	0.000	1.531	0
09/24/13 10:55:00	1109	562	0.000	1.533	0
09/24/13 10:55:15	1100	563	0.000	1.536	0
09/24/13 10:55:30	1104	564	0.000	1.540	0
09/24/13 10:55:45	1103	564	0.000	1.536	0
09/24/13 10:56:00	1109	564	0.000	1.532	0
09/24/13 10:56:15	1104	564	0.000	1.537	0
09/24/13 10:56:30	1103	563	0.000	1.541	0
09/24/13 10:56:45	1100	564	0.000	1.541	0
09/24/13 10:57:00	1092	564	0.000	1.540	0
09/24/13 10:57:15	1101	565	0.000	1.540	0
09/24/13 10:57:30	1099	564	0.000	1.540	0
09/24/13 10:57:45	1101	565	0.000	1.540	0
09/24/13 10:58:00	1103	565	0.000	1.544	0
09/24/13 10:58:15	1102	564	0.000	1.546	0
09/24/13 10:58:30	1101	565	0.000	1.545	0
09/24/13 10:58:45	1100	566	0.000	1.532	0
09/24/13 10:59:00	1102	565	0.000	1.537	0
09/24/13 10:59:15	1106	566	0.000	1.537	0
09/24/13 10:59:30	1102	566	0.000	1.537	0
09/24/13 10:59:45	1098	565	0.000	1.536	0
09/24/13 11:00:00	1101	566	0.000	1.536	0
09/24/13 11:00:15	1101	566	0.000	1.543	0
09/24/13 11:00:30	1097	566	0.000	1.542	0
09/24/13 11:00:45	1103	566	0.000	1.534	0
09/24/13 11:01:00	1105	566	0.000	1.533	0
09/24/13 11:01:15	1099	567	0.000	1.541	0
09/24/13 11:01:30	1101	566	0.000	1.538	0
09/24/13 11:01:45	1106	567	0.000	1.533	0
09/24/13 11:02:00	1104	567	0.000	1.531	0
09/24/13 11:02:15	1104	567	0.000	1.531	0
09/24/13 11:02:30	1105	567	0.000	1.532	0
09/24/13 11:02:45	1107	567	0.000	1.538	0
09/24/13 11:03:00	1100	567	0.000	1.541	0
09/24/13 11:03:15	1111	566	0.000	1.540	0

09/24/13 11:03:30	1100	567	0.000	1.539	0
09/24/13 11:03:45	1106	568	0.000	1.538	0
09/24/13 11:04:00	1096	566	0.000	1.537	0
09/24/13 11:04:15	1094	567	0.000	1.538	0
09/24/13 11:04:30	1102	568	0.000	1.541	0
09/24/13 11:04:45	1097	567	0.000	1.545	0
09/24/13 11:05:00	1109	567	0.000	1.542	0
09/24/13 11:05:15	1108	568	0.000	1.541	0
09/24/13 11:05:30	1103	567	0.000	1.544	0
09/24/13 11:05:45	1108	568	0.000	1.541	0
09/24/13 11:06:00	1099	568	0.000	1.534	0
09/24/13 11:06:15	1104	568	0.000	1.527	0
09/24/13 11:06:30	1104	569	0.000	1.529	0
09/24/13 11:06:45	1100	569	0.000	1.531	0
09/24/13 11:07:00	1108	568	0.000	1.533	0
09/24/13 11:07:15	1104	569	0.000	1.535	0
09/24/13 11:07:30	1108	569	0.000	1.523	0
09/24/13 11:07:45	1100	569	0.000	1.530	0
09/24/13 11:08:00	1104	569	0.000	1.532	0
09/24/13 11:08:15	1095	568	0.000	1.530	0
09/24/13 11:08:30	1104	571	0.000	1.531	0
09/24/13 11:08:45	1098	569	0.000	1.531	0
09/24/13 11:09:00	1104	570	0.000	1.531	0
09/24/13 11:09:15	1103	570	0.000	1.537	0
09/24/13 11:09:30	1101	570	0.000	1.538	0
09/24/13 11:09:45	1107	570	0.000	1.540	0
09/24/13 11:10:00	1104	570	0.000	1.540	0
09/24/13 11:10:15	1098	570	0.000	1.537	0
09/24/13 11:10:30	1102	570	0.000	1.535	0
09/24/13 11:10:45	1100	571	0.000	1.533	0
09/24/13 11:11:00	1098	571	0.000	1.536	0
09/24/13 11:11:15	1106	571	0.000	1.521	0
09/24/13 11:11:30	1102	570	0.000	1.545	0
09/24/13 11:11:45	1104	571	0.000	1.543	0
09/24/13 11:12:00	1099	571	0.000	1.541	0
09/24/13 11:12:15	1102	572	0.000	1.539	0
09/24/13 11:12:30	1105	571	0.000	1.527	0
09/24/13 11:12:45	1104	571	0.000	1.528	0
09/24/13 11:13:00	1103	571	0.000	1.529	0
09/24/13 11:13:15	1106	571	0.000	1.529	0
09/24/13 11:13:30	1094	572	0.000	1.531	0
09/24/13 11:13:45	1098	572	0.000	1.534	0
09/24/13 11:14:00	1104	572	0.000	1.531	0
09/24/13 11:14:15	1106	572	0.000	1.528	0
09/24/13 11:14:30	1097	572	0.000	1.529	0

09/24/13 11:14:45	1101	572	0.000	1.529	0
09/24/13 11:15:00	1102	572	0.000	1.526	0
09/24/13 11:15:15	1102	572	0.000	1.526	0
09/24/13 11:15:30	1103	573	0.000	1.526	0
09/24/13 11:15:45	1107	572	0.000	1.526	0
09/24/13 11:16:00	1099	572	0.000	1.526	0
09/24/13 11:16:15	1108	571	0.000	1.527	0
09/24/13 11:16:30	1100	572	0.000	1.528	0
09/24/13 11:16:45	1107	572	0.000	1.542	0
09/24/13 11:17:00	1102	572	0.000	1.529	0
09/24/13 11:17:15	1108	571	0.000	1.527	0
09/24/13 11:17:30	1105	571	0.000	1.527	0
09/24/13 11:17:45	1099	572	0.000	1.527	0
09/24/13 11:18:00	1107	571	0.000	1.527	0
09/24/13 11:18:15	1102	572	0.000	1.527	0
09/24/13 11:18:30	1107	574	0.000	1.526	0
09/24/13 11:18:45	1104	572	0.000	1.525	0
09/24/13 11:19:00	1106	573	0.000	1.524	0
09/24/13 11:19:15	1105	573	0.000	1.523	0
09/24/13 11:19:30	1103	573	0.000	1.530	0
09/24/13 11:19:45	1111	572	0.000	1.542	0
09/24/13 11:20:00	1103	574	0.000	1.530	0
09/24/13 11:20:15	1100	574	0.000	1.524	0
09/24/13 11:20:30	1110	574	0.000	1.525	0
09/24/13 11:20:45	1107	574	0.000	1.526	0
09/24/13 11:21:00	1103	573	0.000	1.526	0
09/24/13 11:21:15	1107	573	0.000	1.519	0
09/24/13 11:21:30	1093	573	0.000	1.531	0
09/24/13 11:21:45	1104	574	0.000	1.529	0
09/24/13 11:22:00	1109	574	0.000	1.529	0
09/24/13 11:22:15	1108	574	0.000	1.528	0
09/24/13 11:22:30	1103	574	0.000	1.527	0
09/24/13 11:22:45	1107	575	0.000	1.552	0
09/24/13 11:23:00	1215	574	0.000	1.885	0
09/24/13 11:23:15	1242	576	0.000	2.085	0
09/24/13 11:23:30	1254	576	0.000	2.080	0
09/24/13 11:23:45	1235	576	0.000	2.037	0
09/24/13 11:24:00	1237	576	0.000	2.059	0
09/24/13 11:24:15	1228	577	0.000	2.052	0
09/24/13 11:24:30	1226	576	0.000	2.024	0
09/24/13 11:24:45	1227	576	0.000	2.043	0
09/24/13 11:25:00	1223	576	0.000	2.044	0
09/24/13 11:25:15	1227	576	0.000	2.056	0
09/24/13 11:25:30	1239	576	0.000	2.059	0
09/24/13 11:25:45	1224	577	0.000	2.029	0

09/24/13 11:26:00	1234	577	0.000	2.042	0
09/24/13 11:26:15	1233	576	0.000	2.040	0
09/24/13 11:26:30	1231	577	0.000	2.042	0
09/24/13 11:26:45	1226	577	0.000	2.071	0
09/24/13 11:27:00	1230	577	0.000	2.048	0
09/24/13 11:27:15	1226	577	0.000	2.065	0
09/24/13 11:27:30	1238	578	0.000	2.077	0
09/24/13 11:27:45	1222	578	0.000	2.043	0
09/24/13 11:28:00	1233	578	0.000	2.024	0
09/24/13 11:28:15	1227	577	0.000	2.029	0
09/24/13 11:28:30	1237	578	0.000	2.034	0
09/24/13 11:28:45	1216	578	0.000	2.047	0
09/24/13 11:29:00	1227	579	0.000	2.039	0
09/24/13 11:29:15	1228	579	0.000	2.014	0
09/24/13 11:29:30	1234	580	0.000	2.051	0
09/24/13 11:29:45	1217	579	0.000	2.046	0
09/24/13 11:30:00	1231	580	0.000	2.040	0
09/24/13 11:30:15	1230	580	0.000	2.001	0
09/24/13 11:30:30	1230	579	0.000	2.045	0
09/24/13 11:30:45	1221	580	0.000	2.024	0
09/24/13 11:31:00	1229	580	0.000	2.031	0
09/24/13 11:31:15	1232	580	0.000	2.031	0
09/24/13 11:31:30	1232	580	0.000	2.047	0
09/24/13 11:31:45	1222	580	0.000	2.045	0
09/24/13 11:32:00	1234	580	0.000	2.040	0
09/24/13 11:32:15	1225	580	0.000	2.053	0
09/24/13 11:32:30	1229	581	0.000	2.032	0
09/24/13 11:32:45	1216	580	0.000	2.040	0
09/24/13 11:33:00	1227	581	0.000	2.032	0
09/24/13 11:33:15	1223	580	0.000	2.046	0
09/24/13 11:33:30	1234	581	0.000	2.037	0
09/24/13 11:33:45	1223	581	0.000	2.064	0
09/24/13 11:34:00	1224	581	0.000	2.040	0
09/24/13 11:34:15	1233	581	0.000	2.032	0
09/24/13 11:34:30	1229	582	0.000	2.028	0
09/24/13 11:34:45	1222	582	0.000	2.062	0
09/24/13 11:35:00	1236	581	0.000	2.048	0
09/24/13 11:35:15	1218	582	0.000	2.062	0
09/24/13 11:35:30	1227	582	0.000	2.037	0
09/24/13 11:35:45	1218	583	0.000	2.023	0
09/24/13 11:36:00	1230	583	0.000	2.041	0
09/24/13 11:36:15	1224	582	0.000	2.046	0
09/24/13 11:36:30	1232	583	0.000	2.027	0
09/24/13 11:36:45	1233	583	0.000	2.020	0
09/24/13 11:37:00	1218	583	0.000	2.044	0

09/24/13 11:37:15	1218	583	0.000	2.016	0
09/24/13 11:37:30	1228	583	0.000	2.028	0
09/24/13 11:37:45	1231	583	0.000	2.085	0
09/24/13 11:38:00	1229	583	0.000	2.044	0
09/24/13 11:38:15	1238	583	0.000	2.053	0
09/24/13 11:38:30	1228	583	0.000	2.030	0
09/24/13 11:38:45	1231	583	0.000	2.041	0
09/24/13 11:39:00	1232	584	0.000	2.028	0
09/24/13 11:39:15	1230	584	0.000	2.034	0
09/24/13 11:39:30	1225	584	0.000	2.022	0
09/24/13 11:39:45	1232	584	0.000	2.052	0
09/24/13 11:40:00	1234	584	0.000	2.025	0
09/24/13 11:40:15	1227	585	0.000	2.042	0
09/24/13 11:40:30	1233	585	0.000	2.030	0
09/24/13 11:40:45	1231	584	0.000	2.055	0
09/24/13 11:41:00	1228	584	0.000	2.027	0
09/24/13 11:41:15	1217	585	0.000	2.022	0
09/24/13 11:41:30	1239	584	0.000	2.050	0
09/24/13 11:41:45	1232	585	0.000	2.046	0
09/24/13 11:42:00	1229	585	0.000	2.074	0
09/24/13 11:42:15	1226	585	0.000	2.050	0
09/24/13 11:42:30	1240	585	0.000	2.068	0
09/24/13 11:42:45	1227	584	0.000	2.046	0
09/24/13 11:43:00	1232	585	0.000	2.022	0
09/24/13 11:43:15	1231	585	0.000	2.050	0
09/24/13 11:43:30	1231	586	0.000	2.039	0
09/24/13 11:43:45	1233	587	0.000	2.034	0
09/24/13 11:44:00	1230	586	0.000	2.023	0
09/24/13 11:44:15	1234	586	0.000	2.036	0
09/24/13 11:44:30	1236	587	0.000	2.072	0
09/24/13 11:44:45	1225	587	0.000	2.029	0
09/24/13 11:45:00	1231	587	0.000	2.016	0
09/24/13 11:45:15	1241	586	0.000	2.100	0
09/24/13 11:45:30	1225	587	0.000	2.056	0
09/24/13 11:45:45	1232	587	0.000	2.025	0
09/24/13 11:46:00	1234	586	0.000	2.039	0
09/24/13 11:46:15	1235	587	0.000	2.040	0
09/24/13 11:46:30	1221	587	0.000	2.044	0
09/24/13 11:46:45	1239	587	0.000	2.046	0
09/24/13 11:47:00	1234	588	0.000	2.033	0
09/24/13 11:47:15	1233	587	0.000	2.049	0
09/24/13 11:47:30	1237	588	0.000	2.074	0
09/24/13 11:47:45	1223	587	0.000	2.078	0
09/24/13 11:48:00	1231	587	0.000	2.024	0
09/24/13 11:48:15	1226	588	0.000	2.044	0

09/24/13 11:48:30	1241	588	0.000	2.055	0
09/24/13 11:48:45	1225	589	0.000	2.004	0
09/24/13 11:49:00	1228	588	0.000	2.035	0
09/24/13 11:49:15	1230	588	0.000	2.027	0
09/24/13 11:49:30	1241	588	0.000	2.039	0
09/24/13 11:49:45	1240	588	0.000	2.020	0
09/24/13 11:50:00	1225	588	0.000	2.022	0
09/24/13 11:50:15	1238	588	0.000	2.035	0
09/24/13 11:50:30	1230	589	0.000	2.042	0
09/24/13 11:50:45	1232	588	0.000	2.049	0
09/24/13 11:51:00	1238	589	0.000	2.006	0
09/24/13 11:51:15	1238	589	0.000	2.037	0
09/24/13 11:51:30	1234	589	0.000	2.029	0
09/24/13 11:51:45	1238	589	0.000	2.051	0
09/24/13 11:52:00	1234	590	0.000	2.022	0
09/24/13 11:52:15	1229	590	0.000	2.027	0
09/24/13 11:52:30	1231	589	0.000	2.034	0
09/24/13 11:52:45	1238	589	0.000	2.039	0
09/24/13 11:53:00	1343	592	0.000	2.101	0
09/24/13 11:53:15	1381	592	0.000	2.530	0
09/24/13 11:53:30	1397	591	0.000	2.513	0
09/24/13 11:53:45	1386	592	0.000	2.584	0
09/24/13 11:54:00	1393	591	0.000	2.592	0
09/24/13 11:54:15	1392	591	0.000	2.598	0
09/24/13 11:54:30	1390	592	0.000	2.572	0
09/24/13 11:54:45	1402	592	0.000	2.598	0
09/24/13 11:55:00	1394	592	0.000	2.614	0
09/24/13 11:55:15	1389	592	0.000	2.563	0
09/24/13 11:55:30	1395	594	0.000	2.555	0
09/24/13 11:55:45	1376	593	0.000	2.530	0
09/24/13 11:56:00	1334	594	0.000	2.415	0
09/24/13 11:56:15	1345	593	0.000	2.398	0
09/24/13 11:56:30	1345	593	0.000	2.423	0
09/24/13 11:56:45	1366	594	0.000	2.479	0
09/24/13 11:57:00	1363	594	0.000	2.467	0
09/24/13 11:57:15	1361	594	0.000	2.477	0
09/24/13 11:57:30	1368	595	0.000	2.440	0
09/24/13 11:57:45	1359	595	0.000	2.434	0
09/24/13 11:58:00	1345	596	0.000	2.473	0
09/24/13 11:58:15	1358	595	0.000	2.449	0
09/24/13 11:58:30	1352	594	0.000	2.532	0
09/24/13 11:58:45	1351	594	0.000	2.496	0
09/24/13 11:59:00	1361	595	0.000	2.464	0
09/24/13 11:59:15	1352	592	0.000	2.488	0
09/24/13 11:59:30	1360	576	0.000	2.442	0

09/24/13 11:59:45	1355	538	0.000	2.451	0
09/24/13 12:00:00	1349	501	0.000	2.506	0
09/24/13 12:00:15	1351	501	0.000	2.475	0
09/24/13 12:00:30	1339	502	0.000	2.473	0
09/24/13 12:00:45	1353	502	0.000	2.467	0
09/24/13 12:01:00	1365	502	0.000	2.442	0
09/24/13 12:01:15	1356	503	0.000	2.377	0
09/24/13 12:01:30	1355	504	0.000	2.456	0
09/24/13 12:01:45	1350	504	0.000	2.453	0
09/24/13 12:02:00	1373	503	0.000	2.511	0
09/24/13 12:02:15	1361	504	0.000	2.483	0
09/24/13 12:02:30	1362	504	0.000	2.469	0
09/24/13 12:02:45	1350	503	0.000	2.442	0
09/24/13 12:03:00	1355	504	0.000	2.470	0
09/24/13 12:03:15	1355	505	0.000	2.429	0
09/24/13 12:03:30	1351	505	0.000	2.473	0
09/24/13 12:03:45	1344	505	0.000	2.472	0
09/24/13 12:04:00	1347	506	0.000	2.449	0
09/24/13 12:04:15	1357	505	0.000	2.461	0
09/24/13 12:04:30	1357	506	0.000	2.461	0
09/24/13 12:04:45	1369	507	0.000	2.405	0
09/24/13 12:05:00	1348	507	0.000	2.482	0
09/24/13 12:05:15	1351	506	0.000	2.484	0
09/24/13 12:05:30	1367	507	0.000	2.457	0
09/24/13 12:05:45	1355	507	0.000	2.475	0
09/24/13 12:06:00	1357	507	0.000	2.517	0
09/24/13 12:06:15	1354	508	0.000	2.496	0
09/24/13 12:06:30	1359	508	0.000	2.450	0
09/24/13 12:06:45	1365	507	0.000	2.464	0
09/24/13 12:07:00	1340	508	0.000	2.449	0
09/24/13 12:07:15	1353	508	0.000	2.413	0
09/24/13 12:07:30	1359	509	0.000	2.467	0
09/24/13 12:07:45	1361	508	0.000	2.443	0
09/24/13 12:08:00	1349	509	0.000	2.427	0
09/24/13 12:08:15	1355	510	0.000	2.476	0
09/24/13 12:08:30	1359	510	0.000	2.403	0
09/24/13 12:08:45	1348	510	0.000	2.481	0
09/24/13 12:09:00	1342	510	0.000	2.472	0
09/24/13 12:09:15	1357	511	0.000	2.468	0
09/24/13 12:09:30	1356	510	0.000	2.447	0
09/24/13 12:09:45	1348	511	0.000	2.489	0
09/24/13 12:10:00	1348	511	0.000	2.471	0
09/24/13 12:10:15	1348	511	0.000	2.464	0
09/24/13 12:10:30	1350	511	0.000	2.476	0
09/24/13 12:10:45	1359	512	0.000	2.470	0

09/24/13 12:11:00	1367	512	0.000	2.417	0
09/24/13 12:11:15	1356	512	0.000	2.446	0
09/24/13 12:11:30	1349	512	0.000	2.463	0
09/24/13 12:11:45	1351	513	0.000	2.468	0
09/24/13 12:12:00	1357	513	0.000	2.447	0
09/24/13 12:12:15	1350	513	0.000	2.482	0
09/24/13 12:12:30	1365	513	0.000	2.466	0
09/24/13 12:12:45	1361	514	0.000	2.461	0
09/24/13 12:13:00	1359	513	0.000	2.463	0
09/24/13 12:13:15	1353	514	0.000	2.451	0
09/24/13 12:13:30	1373	514	0.000	2.477	0
09/24/13 12:13:45	1370	515	0.000	2.452	0
09/24/13 12:14:00	1358	515	0.000	2.468	0
09/24/13 12:14:15	1368	515	0.000	2.484	0
09/24/13 12:14:30	1352	516	0.000	2.464	0
09/24/13 12:14:45	1338	516	0.000	2.483	0
09/24/13 12:15:00	1361	516	0.000	2.481	0
09/24/13 12:15:15	1350	516	0.000	2.455	0
09/24/13 12:15:30	1350	517	0.000	2.507	0
09/24/13 12:15:45	1354	516	0.000	2.434	0
09/24/13 12:16:00	1350	516	0.000	2.434	0
09/24/13 12:16:15	1360	517	0.000	2.478	0
09/24/13 12:16:30	1374	517	0.000	2.484	0
09/24/13 12:16:45	1363	518	0.000	2.457	0
09/24/13 12:17:00	1371	517	0.000	2.486	0
09/24/13 12:17:15	1365	518	0.000	2.449	0
09/24/13 12:17:30	1361	519	0.000	2.445	0
09/24/13 12:17:45	1358	518	0.000	2.468	0
09/24/13 12:18:00	1351	519	0.000	2.424	0
09/24/13 12:18:15	1353	520	0.000	2.454	0
09/24/13 12:18:30	1357	520	0.000	2.473	0
09/24/13 12:18:45	1357	520	0.000	2.473	0
09/24/13 12:19:00	1360	520	0.000	2.457	0
09/24/13 12:19:15	1367	521	0.000	2.437	0
09/24/13 12:19:30	1354	520	0.000	2.480	0
09/24/13 12:19:45	1361	521	0.000	2.478	0
09/24/13 12:20:00	1362	520	0.000	2.450	0
09/24/13 12:20:15	1359	521	0.000	2.474	0
09/24/13 12:20:30	1365	520	0.000	2.473	0
09/24/13 12:20:45	1359	522	0.000	2.459	0
09/24/13 12:21:00	1371	522	0.000	2.459	0
09/24/13 12:21:15	1361	521	0.000	2.486	0
09/24/13 12:21:30	1359	522	0.000	2.462	0
09/24/13 12:21:45	1365	522	0.000	2.477	0
09/24/13 12:22:00	1343	522	0.000	2.519	0

09/24/13 12:22:15	1363	522	0.000	2.455	0
09/24/13 12:22:30	1347	522	0.000	2.451	0
09/24/13 12:22:45	1526	524	0.000	2.926	0
09/24/13 12:23:00	1601	524	0.000	3.117	0
09/24/13 12:23:15	1545	526	0.000	3.016	0
09/24/13 12:23:30	1547	525	0.000	2.969	0
09/24/13 12:23:45	1527	525	0.000	2.946	0
09/24/13 12:24:00	1567	525	0.000	3.057	0
09/24/13 12:24:15	1629	526	0.000	3.157	0
09/24/13 12:24:30	1632	527	0.000	3.214	0
09/24/13 12:24:45	1634	527	0.000	3.190	0
09/24/13 12:25:00	1571	527	0.000	3.034	0
09/24/13 12:25:15	1559	528	0.000	3.023	0
09/24/13 12:25:30	1568	527	0.000	3.023	0
09/24/13 12:25:45	1558	527	0.000	3.033	0
09/24/13 12:26:00	1557	528	0.000	3.025	0
09/24/13 12:26:15	1564	527	0.000	3.019	0
09/24/13 12:26:30	1565	529	0.000	3.055	0
09/24/13 12:26:45	1583	527	0.000	3.018	0
09/24/13 12:27:00	1597	528	0.000	3.041	0
09/24/13 12:27:15	1586	528	0.000	3.035	0
09/24/13 12:27:30	1585	528	0.000	3.038	0
09/24/13 12:27:45	1598	529	0.000	3.022	0
09/24/13 12:28:00	1590	529	0.000	3.038	0
09/24/13 12:28:15	1582	530	0.000	3.051	0
09/24/13 12:28:30	1562	530	0.000	3.005	0
09/24/13 12:28:45	1564	529	0.000	3.026	0
09/24/13 12:29:00	1540	532	0.000	3.011	0
09/24/13 12:29:15	1561	531	0.000	3.028	0
09/24/13 12:29:30	1557	532	0.000	3.025	0
09/24/13 12:29:45	1571	531	0.000	3.019	0
09/24/13 12:30:00	1572	534	0.000	2.999	0
09/24/13 12:30:15	1571	532	0.000	3.015	0
09/24/13 12:30:30	1580	532	0.000	3.071	0
09/24/13 12:30:45	1564	533	0.000	3.004	0
09/24/13 12:31:00	1580	535	0.000	3.016	0
09/24/13 12:31:15	1577	532	0.000	3.037	0
09/24/13 12:31:30	1598	532	0.000	3.007	0
09/24/13 12:31:45	1573	533	0.000	3.038	0
09/24/13 12:32:00	1546	533	0.000	3.017	0
09/24/13 12:32:15	1539	534	0.000	3.038	0
09/24/13 12:32:30	1557	534	0.000	3.025	0
09/24/13 12:32:45	1553	534	0.000	3.038	0
09/24/13 12:33:00	1562	533	0.000	3.041	0
09/24/13 12:33:15	1553	534	0.000	3.055	0

09/24/13 12:33:30	1574	534	0.000	3.042	0
09/24/13 12:33:45	1585	534	0.000	3.041	0
09/24/13 12:34:00	1567	536	0.000	3.026	0
09/24/13 12:34:15	1553	536	0.000	3.038	0
09/24/13 12:34:30	1571	535	0.000	3.055	0
09/24/13 12:34:45	1540	535	0.000	3.039	0
09/24/13 12:35:00	1566	535	0.000	3.053	0
09/24/13 12:35:15	1549	536	0.000	3.035	0
09/24/13 12:35:30	1563	538	0.000	3.033	0
09/24/13 12:35:45	1583	536	0.000	3.030	0
09/24/13 12:36:00	1553	537	0.000	3.044	0
09/24/13 12:36:15	1553	536	0.000	3.025	0
09/24/13 12:36:30	1582	536	0.000	3.032	0
09/24/13 12:36:45	1576	538	0.000	3.040	0
09/24/13 12:37:00	1549	537	0.000	3.030	0
09/24/13 12:37:15	1553	538	0.000	3.072	0
09/24/13 12:37:30	1579	537	0.000	3.037	0
09/24/13 12:37:45	1542	536	0.000	3.077	0
09/24/13 12:38:00	1557	539	0.000	3.046	0
09/24/13 12:38:15	1563	540	0.000	3.031	0
09/24/13 12:38:30	1559	537	0.000	3.050	0
09/24/13 12:38:45	1546	539	0.000	3.060	0
09/24/13 12:39:00	1565	537	0.000	3.060	0
09/24/13 12:39:15	1592	537	0.000	3.031	0
09/24/13 12:39:30	1553	539	0.000	3.039	0
09/24/13 12:39:45	1562	541	0.000	3.039	0
09/24/13 12:40:00	1569	540	0.000	3.036	0
09/24/13 12:40:15	1570	539	0.000	3.041	0
09/24/13 12:40:30	1586	541	0.000	3.043	0
09/24/13 12:40:45	1564	541	0.000	3.066	0
09/24/13 12:41:00	1555	540	0.000	3.048	0
09/24/13 12:41:15	1570	542	0.000	3.026	0
09/24/13 12:41:30	1581	540	0.000	3.056	0
09/24/13 12:41:45	1578	542	0.000	3.022	0
09/24/13 12:42:00	1592	542	0.000	3.030	0
09/24/13 12:42:15	1547	541	0.000	3.051	0
09/24/13 12:42:30	1556	540	0.000	3.053	0
09/24/13 12:42:45	1559	543	0.000	3.024	0
09/24/13 12:43:00	1565	542	0.000	3.020	0
09/24/13 12:43:15	1579	540	0.000	3.048	0
09/24/13 12:43:30	1583	541	0.000	3.041	0
09/24/13 12:43:45	1570	542	0.000	3.032	0
09/24/13 12:44:00	1545	543	0.000	3.052	0
09/24/13 12:44:15	1572	543	0.000	3.004	0
09/24/13 12:44:30	1558	542	0.000	3.031	0

09/24/13 12:44:45	1566	542	0.000	3.029	0
09/24/13 12:45:00	1578	542	0.000	3.039	0
09/24/13 12:45:15	1582	543	0.000	3.037	0
09/24/13 12:45:30	1544	543	0.000	3.016	0
09/24/13 12:45:45	1545	545	0.000	3.042	0
09/24/13 12:46:00	1536	543	0.000	2.995	0
09/24/13 12:46:15	1529	545	0.000	3.057	0
09/24/13 12:46:30	1561	544	0.000	3.006	0
09/24/13 12:46:45	1543	545	0.000	3.036	0
09/24/13 12:47:00	1565	546	0.000	3.029	0
09/24/13 12:47:15	1564	544	0.000	3.035	0
09/24/13 12:47:30	1561	544	0.000	3.042	0
09/24/13 12:47:45	1570	544	0.000	3.038	0
09/24/13 12:48:00	1559	546	0.000	3.048	0
09/24/13 12:48:15	1574	545	0.000	3.048	0
09/24/13 12:48:30	1547	547	0.000	3.034	0
09/24/13 12:48:45	1565	545	0.000	3.050	0
09/24/13 12:49:00	1588	546	0.000	3.037	0
09/24/13 12:49:15	1554	545	0.000	3.061	0
09/24/13 12:49:30	1544	546	0.000	3.054	0
09/24/13 12:49:45	1574	547	0.000	3.056	0
09/24/13 12:50:00	1558	546	0.000	3.025	0
09/24/13 12:50:15	1565	547	0.000	3.048	0
09/24/13 12:50:30	1578	548	0.000	3.055	0
09/24/13 12:50:45	1551	547	0.000	3.032	0
09/24/13 12:51:00	1557	549	0.000	3.041	0
09/24/13 12:51:15	1574	547	0.000	3.038	0
09/24/13 12:51:30	1553	548	0.000	2.990	0
09/24/13 12:51:45	1583	548	0.000	2.988	0
09/24/13 12:52:00	1557	547	0.000	3.020	0
09/24/13 12:52:15	1588	546	0.000	3.028	0
09/24/13 12:52:30	1573	550	0.000	3.023	0
09/24/13 12:52:45	1573	548	0.000	3.050	0
09/24/13 12:53:00	1580	547	0.000	3.011	0
09/24/13 12:53:15	1567	549	0.000	3.063	0
09/24/13 12:53:30	1587	550	0.000	3.025	0
09/24/13 12:53:45	1219	545	0.000	2.112	0
09/24/13 12:54:00	1821	553	0.000	3.638	0
09/24/13 12:54:15	1837	551	0.000	3.632	0
09/24/13 12:54:30	1845	550	0.000	3.637	0
09/24/13 12:54:45	1848	551	0.000	3.659	0
09/24/13 12:55:00	1844	551	0.000	3.669	0
09/24/13 12:55:15	1762	554	0.000	3.484	0
09/24/13 12:55:30	1749	552	0.000	3.483	0
09/24/13 12:55:45	1752	553	0.000	3.466	0

09/24/13 12:56:00	1750	553	0.000	3.445	0
09/24/13 12:56:15	1750	553	0.000	3.500	0
09/24/13 12:56:30	1774	552	0.000	3.492	0
09/24/13 12:56:45	1742	552	0.000	3.436	0
09/24/13 12:57:00	1770	552	0.000	3.455	0
09/24/13 12:57:15	1752	553	0.000	3.494	0
09/24/13 12:57:30	1756	554	0.000	3.498	0
09/24/13 12:57:45	1752	554	0.000	3.547	0
09/24/13 12:58:00	1746	554	0.000	3.492	0
09/24/13 12:58:15	1740	555	0.000	3.453	0
09/24/13 12:58:30	1765	556	0.000	3.481	0
09/24/13 12:58:45	1751	555	0.000	3.485	0
09/24/13 12:59:00	1753	554	0.000	3.522	0
09/24/13 12:59:15	1748	555	0.000	3.467	0
09/24/13 12:59:30	1757	556	0.000	3.498	0
09/24/13 12:59:45	1763	556	0.000	3.510	0
09/24/13 13:00:00	1750	555	0.000	3.503	0
09/24/13 13:00:15	1764	556	0.000	3.505	0
09/24/13 13:00:30	1754	556	0.000	3.503	0
09/24/13 13:00:45	1746	556	0.000	3.453	0
09/24/13 13:01:00	1752	556	0.000	3.481	0
09/24/13 13:01:15	1758	557	0.000	3.495	0
09/24/13 13:01:30	1755	556	0.000	3.470	0
09/24/13 13:01:45	1736	556	0.000	3.488	0
09/24/13 13:02:00	1760	557	0.000	3.511	0
09/24/13 13:02:15	1778	557	0.000	3.540	0
09/24/13 13:02:30	1763	557	0.000	3.509	0
09/24/13 13:02:45	1740	558	0.000	3.485	0
09/24/13 13:03:00	1750	558	0.000	3.437	0
09/24/13 13:03:15	1739	558	0.000	3.451	0
09/24/13 13:03:30	1751	557	0.000	3.487	0
09/24/13 13:03:45	1747	558	0.000	3.488	0
09/24/13 13:04:00	1752	559	0.000	3.489	0
09/24/13 13:04:15	1734	559	0.000	3.495	0
09/24/13 13:04:30	1751	559	0.000	3.445	0
09/24/13 13:04:45	1750	559	0.000	3.463	0
09/24/13 13:05:00	1746	560	0.000	3.401	0
09/24/13 13:05:15	1756	560	0.000	3.523	0
09/24/13 13:05:30	1750	560	0.000	3.548	0
09/24/13 13:05:45	1744	561	0.000	3.458	0
09/24/13 13:06:00	1746	562	0.000	3.485	0
09/24/13 13:06:15	1748	562	0.000	3.443	0
09/24/13 13:06:30	1755	560	0.000	3.429	0
09/24/13 13:06:45	1744	561	0.000	3.504	0
09/24/13 13:07:00	1758	560	0.000	3.477	0

09/24/13 13:07:15	1743	562	0.000	3.477	0
09/24/13 13:07:30	1745	562	0.000	3.483	0
09/24/13 13:07:45	1756	561	0.000	3.472	0
09/24/13 13:08:00	1748	561	0.000	3.502	0
09/24/13 13:08:15	1739	561	0.000	3.484	0
09/24/13 13:08:30	1753	562	0.000	3.495	0
09/24/13 13:08:45	1755	561	0.000	3.526	0
09/24/13 13:09:00	1756	563	0.000	3.487	0
09/24/13 13:09:15	1760	563	0.000	3.446	0
09/24/13 13:09:30	1755	563	0.000	3.462	0
09/24/13 13:09:45	1784	562	0.000	3.463	0
09/24/13 13:10:00	1766	562	0.000	3.462	0
09/24/13 13:10:15	1755	563	0.000	3.469	0
09/24/13 13:10:30	1752	563	0.000	3.484	0
09/24/13 13:10:45	1764	563	0.000	3.485	0
09/24/13 13:11:00	1757	562	0.000	3.493	0
09/24/13 13:11:15	1758	564	0.000	3.433	0
09/24/13 13:11:30	1747	564	0.000	3.556	0
09/24/13 13:11:45	1739	564	0.000	3.498	0
09/24/13 13:12:00	1761	564	0.000	3.527	0
09/24/13 13:12:15	1740	564	0.000	3.512	0
09/24/13 13:12:30	1747	564	0.000	3.465	0
09/24/13 13:12:45	1734	564	0.000	3.472	0
09/24/13 13:13:00	1753	565	0.000	3.475	0
09/24/13 13:13:15	1750	566	0.000	3.459	0
09/24/13 13:13:30	1755	565	0.000	3.440	0
09/24/13 13:13:45	1760	565	0.000	3.552	0
09/24/13 13:14:00	1753	564	0.000	3.487	0
09/24/13 13:14:15	1779	565	0.000	3.478	0
09/24/13 13:14:30	1761	565	0.000	3.482	0
09/24/13 13:14:45	1750	566	0.000	3.527	0
09/24/13 13:15:00	1750	566	0.000	3.474	0
09/24/13 13:15:15	1748	566	0.000	3.440	0
09/24/13 13:15:30	1763	567	0.000	3.478	0
09/24/13 13:15:45	1755	567	0.000	3.447	0
09/24/13 13:16:00	1746	566	0.000	3.510	0
09/24/13 13:16:15	1754	567	0.000	3.482	0
09/24/13 13:16:30	1757	567	0.000	3.476	0
09/24/13 13:16:45	1772	567	0.000	3.472	0
09/24/13 13:17:00	1767	567	0.000	3.478	0
09/24/13 13:17:15	1751	567	0.000	3.522	0
09/24/13 13:17:30	1751	568	0.000	3.472	0
09/24/13 13:17:45	1745	567	0.000	3.495	0
09/24/13 13:18:00	1747	567	0.000	3.504	0
09/24/13 13:18:15	1759	568	0.000	3.465	0

09/24/13 13:18:30	1758	567	0.000	3.455	0
09/24/13 13:18:45	1747	568	0.000	3.469	0
09/24/13 13:19:00	1735	568	0.000	3.468	0
09/24/13 13:19:15	1762	566	0.000	3.463	0
09/24/13 13:19:30	1759	567	0.000	3.456	0
09/24/13 13:19:45	1743	568	0.000	3.425	0
09/24/13 13:20:00	1763	569	0.000	3.479	0
09/24/13 13:20:15	1741	568	0.000	3.427	0
09/24/13 13:20:30	1751	570	0.000	3.499	0
09/24/13 13:20:45	1743	570	0.000	3.434	0
09/24/13 13:21:00	1747	568	0.000	3.540	0
09/24/13 13:21:15	1756	569	0.000	3.544	0
09/24/13 13:21:30	1744	570	0.000	3.520	0
09/24/13 13:21:45	1745	570	0.000	3.509	0
09/24/13 13:22:00	1767	570	0.000	3.482	0
09/24/13 13:22:15	1745	570	0.000	3.442	0
09/24/13 13:22:30	1733	570	0.000	3.402	0
09/24/13 13:22:45	1741	569	0.000	3.497	0
09/24/13 13:23:00	1738	571	0.000	3.470	0
09/24/13 13:23:15	1741	571	0.000	3.498	0
09/24/13 13:23:30	1745	571	0.000	3.441	0
09/24/13 13:23:45	1751	572	0.000	3.523	0
09/24/13 13:24:00	2242	575	0.000	4.391	0
09/24/13 13:24:15	1876	572	0.000	3.753	0
09/24/13 13:24:30	1941	573	0.000	3.892	0
09/24/13 13:24:45	1950	572	0.000	3.895	0
09/24/13 13:25:00	1953	573	0.000	3.910	0
09/24/13 13:25:15	1929	573	0.000	3.898	0
09/24/13 13:25:30	1947	575	0.000	3.865	0
09/24/13 13:25:45	1950	574	0.000	3.897	0
09/24/13 13:26:00	1962	575	0.000	3.833	0
09/24/13 13:26:15	1949	575	0.000	3.892	0
09/24/13 13:26:30	1946	575	0.000	3.884	0
09/24/13 13:26:45	1950	576	0.000	3.857	0
09/24/13 13:27:00	1942	576	0.000	3.874	0
09/24/13 13:27:15	1935	575	0.000	3.869	0
09/24/13 13:27:30	1934	575	0.000	3.918	0
09/24/13 13:27:45	1950	577	0.000	3.928	0
09/24/13 13:28:00	1941	577	0.000	3.906	0
09/24/13 13:28:15	1939	577	0.000	3.939	0
09/24/13 13:28:30	1946	576	0.000	3.854	0
09/24/13 13:28:45	1968	577	0.000	3.884	0
09/24/13 13:29:00	1951	578	0.000	3.912	0
09/24/13 13:29:15	1968	577	0.000	3.921	0
09/24/13 13:29:30	1957	579	0.000	3.889	0

09/24/13 13:29:45	1970	578	0.000	3.911	0
09/24/13 13:30:00	1959	579	0.000	3.939	0
09/24/13 13:30:15	1956	578	0.000	3.936	0
09/24/13 13:30:30	1937	578	0.000	3.929	0
09/24/13 13:30:45	1942	579	0.000	3.875	0
09/24/13 13:31:00	1935	579	0.000	3.932	0
09/24/13 13:31:15	1939	578	0.000	3.884	0
09/24/13 13:31:30	1930	579	0.000	3.870	0
09/24/13 13:31:45	1941	579	0.000	3.879	0
09/24/13 13:32:00	1937	578	0.000	3.868	0
09/24/13 13:32:15	1950	579	0.000	3.943	0
09/24/13 13:32:30	1940	580	0.000	3.887	0
09/24/13 13:32:45	1947	580	0.000	3.890	0
09/24/13 13:33:00	1953	580	0.000	3.859	0
09/24/13 13:33:15	1935	581	0.000	3.894	0
09/24/13 13:33:30	1963	580	0.000	3.908	0
09/24/13 13:33:45	1974	582	0.000	3.905	0
09/24/13 13:34:00	1952	582	0.000	3.883	0
09/24/13 13:34:15	1949	581	0.000	3.864	0
09/24/13 13:34:30	1930	581	0.000	3.868	0
09/24/13 13:34:45	1941	581	0.000	3.865	0
09/24/13 13:35:00	1942	582	0.000	3.917	0
09/24/13 13:35:15	1939	582	0.000	3.898	0
09/24/13 13:35:30	1946	583	0.000	3.875	0
09/24/13 13:35:45	1941	582	0.000	3.853	0
09/24/13 13:36:00	1942	582	0.000	3.920	0
09/24/13 13:36:15	1965	583	0.000	3.886	0
09/24/13 13:36:30	1930	581	0.000	3.861	0
09/24/13 13:36:45	1940	582	0.000	3.891	0
09/24/13 13:37:00	1940	583	0.000	3.831	0
09/24/13 13:37:15	1951	584	0.000	3.921	0
09/24/13 13:37:30	1949	586	0.000	3.879	0
09/24/13 13:37:45	1949	583	0.000	3.890	0
09/24/13 13:38:00	1925	584	0.000	3.908	0
09/24/13 13:38:15	1959	585	0.000	3.915	0
09/24/13 13:38:30	1952	585	0.000	3.856	0
09/24/13 13:38:45	1935	585	0.000	3.901	0
09/24/13 13:39:00	1925	585	0.000	3.906	0
09/24/13 13:39:15	1950	586	0.000	3.893	0
09/24/13 13:39:30	1923	584	0.000	3.887	0
09/24/13 13:39:45	1926	584	0.000	3.924	0
09/24/13 13:40:00	1921	585	0.000	3.871	0
09/24/13 13:40:15	1934	585	0.000	3.941	0
09/24/13 13:40:30	1917	585	0.000	3.869	0
09/24/13 13:40:45	1929	585	0.000	3.892	0

09/24/13 13:41:00	1962	586	0.000	3.868	0
09/24/13 13:41:15	1942	585	0.000	3.872	0
09/24/13 13:41:30	1929	584	0.000	3.925	0
09/24/13 13:41:45	1954	585	0.000	3.900	0
09/24/13 13:42:00	1928	586	0.000	3.874	0
09/24/13 13:42:15	1946	586	0.000	3.900	0
09/24/13 13:42:30	1947	585	0.000	3.920	0
09/24/13 13:42:45	1929	585	0.000	3.933	0
09/24/13 13:43:00	1917	585	0.000	3.940	0
09/24/13 13:43:15	1949	585	0.000	3.873	0
09/24/13 13:43:30	1933	586	0.000	3.875	0
09/24/13 13:43:45	1919	585	0.000	3.887	0
09/24/13 13:44:00	1936	587	0.000	3.857	0
09/24/13 13:44:15	1932	587	0.000	3.855	0
09/24/13 13:44:30	1928	586	0.000	3.856	0
09/24/13 13:44:45	1916	588	0.000	3.855	0
09/24/13 13:45:00	1942	586	0.000	3.846	0
09/24/13 13:45:15	1921	586	0.000	3.894	0
09/24/13 13:45:30	1948	588	0.000	3.875	0
09/24/13 13:45:45	1944	588	0.000	3.829	0
09/24/13 13:46:00	1937	586	0.000	3.864	0
09/24/13 13:46:15	1944	586	0.000	3.880	0
09/24/13 13:46:30	1934	587	0.000	3.871	0
09/24/13 13:46:45	1930	588	0.000	3.890	0
09/24/13 13:47:00	1932	587	0.000	3.880	0
09/24/13 13:47:15	1937	587	0.000	3.899	0
09/24/13 13:47:30	1932	587	0.000	3.849	0
09/24/13 13:47:45	1927	587	0.000	3.882	0
09/24/13 13:48:00	1937	587	0.000	3.892	0
09/24/13 13:48:15	1948	588	0.000	3.859	0
09/24/13 13:48:30	1928	588	0.000	3.862	0
09/24/13 13:48:45	1928	587	0.000	3.881	0
09/24/13 13:49:00	1931	588	0.000	3.960	0
09/24/13 13:49:15	1953	589	0.000	3.872	0
09/24/13 13:49:30	1952	589	0.000	3.922	0
09/24/13 13:49:45	1923	589	0.000	3.890	0
09/24/13 13:50:00	1939	590	0.000	3.854	0
09/24/13 13:50:15	1923	590	0.000	3.870	0
09/24/13 13:50:30	1942	590	0.000	3.881	0
09/24/13 13:50:45	1937	590	0.000	3.926	0
09/24/13 13:51:00	1936	590	0.000	3.920	0
09/24/13 13:51:15	1919	591	0.000	3.865	0
09/24/13 13:51:30	1936	590	0.000	3.843	0
09/24/13 13:51:45	1936	590	0.000	3.850	0
09/24/13 13:52:00	1945	590	0.000	3.899	0

09/24/13 13:52:15	1927	590	0.000	3.911	0
09/24/13 13:52:30	1927	590	0.000	3.875	0
09/24/13 13:52:45	1933	590	0.000	3.902	0
09/24/13 13:53:00	1150	583	0.000	2.160	0
09/24/13 13:53:15	958	581	0.000	0.017	0
09/24/13 13:53:30	1010	582	0.000	0.017	0
09/24/13 13:53:45	979	582	0.000	0.017	0
09/24/13 13:54:00	994	582	0.000	0.016	0
09/24/13 13:54:15	985	582	0.000	0.016	0
09/24/13 13:54:30	988	582	0.000	0.016	0
09/24/13 13:54:45	986	581	0.000	0.016	0
09/24/13 13:55:00	986	581	0.000	0.016	0
09/24/13 13:55:15	985	581	0.000	0.016	0
09/24/13 13:55:30	985	581	0.000	0.016	0
09/24/13 13:55:45	984	581	0.000	0.016	0
09/24/13 13:56:00	984	581	0.000	0.016	0
09/24/13 13:56:15	984	580	0.000	0.016	0
09/24/13 13:56:30	983	580	0.000	0.016	0
09/24/13 13:56:45	983	580	0.000	0.015	0
09/24/13 13:57:00	982	580	0.000	0.015	0
09/24/13 13:57:15	982	580	0.000	0.015	0
09/24/13 13:57:30	981	580	0.000	0.015	0
09/24/13 13:57:45	981	580	0.000	0.015	0
09/24/13 13:58:00	981	579	0.000	0.015	0
09/24/13 13:58:15	980	579	0.000	0.015	0
09/24/13 13:58:30	980	579	0.000	0.015	0
09/24/13 13:58:45	980	579	0.000	0.015	0
09/24/13 13:59:00	979	579	0.000	0.015	0
09/24/13 13:59:15	979	578	0.000	0.015	0
09/24/13 13:59:30	979	578	0.000	0.014	0
09/24/13 13:59:45	978	578	0.000	0.014	0
09/24/13 14:00:00	978	578	0.000	0.014	0
09/24/13 14:00:15	978	578	0.000	0.014	0
09/24/13 14:00:30	977	577	0.000	0.014	0
09/24/13 14:00:45	977	577	0.000	0.014	0
09/24/13 14:01:00	977	577	0.000	0.014	0
09/24/13 14:01:15	976	576	0.000	0.014	0
09/24/13 14:01:30	976	576	0.000	0.014	0
09/24/13 14:01:45	976	576	0.000	0.014	0
09/24/13 14:02:00	975	576	0.000	0.014	0
09/24/13 14:02:15	975	575	0.000	0.013	0
09/24/13 14:02:30	975	575	0.000	0.013	0
09/24/13 14:02:45	974	575	0.000	0.013	0
09/24/13 14:03:00	974	575	0.000	0.013	0
09/24/13 14:03:15	974	574	0.000	0.013	0

09/24/13 14:03:30	973	574	0.000	0.013	0
09/24/13 14:03:45	973	574	0.000	0.013	0
09/24/13 14:04:00	973	574	0.000	0.013	0
09/24/13 14:04:15	972	573	0.000	0.013	0
09/24/13 14:04:30	972	573	0.000	0.013	0
09/24/13 14:04:45	972	573	0.000	0.013	0

Goetze, Phillip, EMNRD

From: David Zerger <DavidZ@kfoc.net>
Sent: Wednesday, October 02, 2013 12:46 PM
To: Goetze, Phillip, EMNRD
Subject: FW: Step-rate test results
Attachments: Step rate test2.xls; David Z 2.pdf; David Z.pdf

Mr. Goetze,

Please find the attached data from our step-rate test on the Bell Lake 4-15 SWD (API 30-025-24771) conducted on 9/24/13. After we turned off our injection pump and our wellhead pressure stabilized, we conducted a step-rate test with nine successively-higher injection rates. Our final rate was 3.9 BPM (5616 B/D) with a surface injection pressure of 1920# (1242# when corrected to compensate for friction). The test was observed by a NMOCD field inspector. The corrected pressures were plotted vs rate (see attached). A break-over point was not observed however, so we feel we will not be fracturing the formation if we are allowed to increase our permitted surface injection pressure from the current 1012# to 1900#. Please note that during the test, actual bottom hole pressure only increased by ~330#. Most of the pressure increase at the surface was due to friction.

I have included the raw data from our step-rate test as well for you review. Please let me know if you need any other information or have any additional questions.

Thanks,

David Zerger
Petroleum Engineer
Kaiser-Francis Oil Company
918-491-4350 Office
918-557-6708 Mobile

From: Goetze, Phillip, EMNRD [<mailto:Phillip.Goetze@state.nm.us>]
Sent: Friday, September 06, 2013 10:23 AM
To: David Zerger
Subject: SRT References

David:

Per our conversation. PRG

Phillip R. Goetze, P.G.
Engineering Bureau, Oil Conservation Division
1220 South St. Francis Dr., Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462

SWD-1084 IPI Application - SRT 2013 Results

