

Chappell, Michelle

From: Melissa Luke <Melissa.Luke@qepres.com>
Sent: Monday, August 15, 2016 3:03 PM
To: C.R. Salinas; Kelly Hamden; Lindsey Shoulders; Melissa Luke; Scott Peterson; OGRregulatory
Subject: First Sales Notification: University 7-1726 S 06SS, S 07SS, and S 08SS
Attachments: University 7-1726 S 06SS Perf Sheet.xlsx; University 7-1726 S 06SS Crescent Final Surveys 7-7-16.xlsx; University 7-1726 S 06SS Crescent Final Surveys 7-7-16.pdf; University 7-1726 S 07SS Perf Sheet.xlsx; University 7-1726 S 07SS Crescent Final Surveys 7-26-16.xlsx; University 7-1726 S 07SS Crescent Final Surveys 6-27-16.pdf; University 7-1726 S 08SS Perf Sheet.xlsx; University 7-1726 S 08SS Crescent Final Surveys 6-14-16.pdf; University 7-1726 S 08SS Crescent Final Surveys 6-14-16.xlsx

Hello –

Please note that the above wells went on production on **08/13/2016**. Please find the attached directional surveys and perf sheets.

The **University 7-1726 S 06SS** was completed as an oil well.

It was perforated from 9,633'-16,903'

Both oil and gas are to be reported.

The **University 7-1726 S 07SS** was completed as an oil well

It was perforated from 9,475'-16,822'

Both oil and gas are to be reported.

The **University 7-1726 S 08SS** was completed as an oil well

It was perforated from 9,643'-16,995'

Both oil and gas are to be reported.

Toe Sleeve	16,822		Well: University 7
Top Perf	9,475	Deepest of red box depths	Prop/Ft: 1,400
Stgs=	32	7,347	Prop/Stg: 321,433
Dist btw Perfs	59		2 ft guns or
Dist btw Perf/Plug	30		Stage Spacing: 236

Stage 1	Plug	-		Stage 2	Plug	16,773	
	RSI	16,822 - 16,805			Perf 1	16,744 - 16,742	
		16,883 - 16,866			Perf 2	16,685 - 16,683	
					Perf 3	16,626 - 16,624	
					Perf 4	16,566 - 16,564	
Stage 4	Plug	16,301		Stage 5	Plug	16,064	
	Perf 1	16,271 - 16,269			Perf 1	16,035 - 16,033	
	Perf 2	16,212 - 16,210			Perf 2	15,976 - 15,974	
	Perf 3	16,153 - 16,151			Perf 3	15,917 - 15,915	
	Perf 4	16,094 - 16,092			Perf 4	15,858 - 15,856	
Stage 7	Plug	15,592		Stage 8	Plug	15,355	
	Perf 1	15,562 - 15,560			Perf 1	15,326 - 15,324	
	Perf 2	15,503 - 15,501			Perf 2	15,267 - 15,265	
	Perf 3	15,444 - 15,442			Perf 3	15,208 - 15,206	
	Perf 4	15,385 - 15,383			Perf 4	15,149 - 15,147	
Stage 10	Plug	14,883		Stage 11	Plug	14,646	
	Perf 1	14,853 - 14,851			Perf 1	14,617 - 14,615	
	Perf 2	14,794 - 14,792			Perf 2	14,558 - 14,556	
	Perf 3	14,735 - 14,733			Perf 3	14,499 - 14,497	
	Perf 4	14,676 - 14,674			Perf 4	14,440 - 14,438	
Stage 13	Plug	14,174		Stage 14	Plug	13,937	
	Perf 1	14,144 - 14,142			Perf 1	13,908 - 13,906	
	Perf 2	14,085 - 14,083			Perf 2	13,849 - 13,847	
	Perf 3	14,026 - 14,024			Perf 3	13,790 - 13,788	
	Perf 4	13,967 - 13,965			Perf 4	13,731 - 13,729	
Stage 16	Plug	13,465		Stage 17	Plug	13,229	
	Perf 1	13,435 - 13,433			Perf 1	13,199 - 13,197	
	Perf 2	13,376 - 13,374			Perf 2	13,140 - 13,138	
	Perf 3	13,317 - 13,315			Perf 3	13,081 - 13,079	
	Perf 4	13,258 - 13,256			Perf 4	13,022 - 13,020	
Stage 19	Plug	12,756		Stage 20	Plug	12,520	
	Perf 1	12,726 - 12,724			Perf 1	12,490 - 12,488	
	Perf 2	12,667 - 12,665			Perf 2	12,431 - 12,429	
	Perf 3	12,608 - 12,606			Perf 3	12,372 - 12,370	
	Perf 4	12,549 - 12,547			Perf 4	12,313 - 12,311	
Stage 22	Plug	12,047		Stage 23	Plug	11,811	
	Perf 1	12,017 - 12,015			Perf 1	11,781 - 11,779	
	Perf 2	11,958 - 11,956			Perf 2	11,722 - 11,720	
	Perf 3	11,899 - 11,897			Perf 3	11,663 - 11,661	

	Perf 4	11,840 -	11,838		Perf 4	11,604 -	11,602
Stage 25	Plug	11,338		Stage 26	Plug	11,102	
	Perf 1	11,308 -	11,306		Perf 1	11,072 -	11,070
	Perf 2	11,249 -	11,247		Perf 2	11,013 -	11,011
	Perf 3	11,190 -	11,188		Perf 3	10,954 -	10,952
	Perf 4	11,131 -	11,129		Perf 4	10,895 -	10,893
Stage 28	Plug	10,629		Stage 29	Plug	10,393	
	Perf 1	10,600 -	10,598		Perf 1	10,363 -	10,361
	Perf 2	10,540 -	10,538		Perf 2	10,304 -	10,302
	Perf 3	10,481 -	10,479		Perf 3	10,245 -	10,243
	Perf 4	10,422 -	10,420		Perf 4	10,186 -	10,184
Stage 31	Plug	9,920		Stage 32	Plug	9,684	
	Perf 1	9,891 -	9,889		Perf 1	9,654 -	9,652
	Perf 2	9,831 -	9,829		Perf 2	9,595 -	9,593
	Perf 3	9,772 -	9,770		Perf 3	9,536 -	9,534
	Perf 4	9,713 -	9,711		Perf 4	9,477 -	9,475

7-1726 S 07SS

lbs/ft

lbs/stg

1 the deepest custer

Stage 3	Plug	16,537	
	Perf 1	16,507 -	16,505
	Perf 2	16,448 -	16,446
	Perf 3	16,389 -	16,387
	Perf 4	16,330 -	16,328
Stage 6	Plug	15,828	
	Perf 1	15,798 -	15,796
	Perf 2	15,739 -	15,737
	Perf 3	15,680 -	15,678
	Perf 4	15,621 -	15,619
Stage 9	Plug	15,119	
	Perf 1	15,090 -	15,088
	Perf 2	15,030 -	15,028
	Perf 3	14,971 -	14,969
	Perf 4	14,912 -	14,910
Stage 12	Plug	14,410	
	Perf 1	14,381 -	14,379
	Perf 2	14,321 -	14,319
	Perf 3	14,262 -	14,260
	Perf 4	14,203 -	14,201
Stage 15	Plug	13,701	
	Perf 1	13,672 -	13,670
	Perf 2	13,613 -	13,611
	Perf 3	13,553 -	13,551
	Perf 4	13,494 -	13,492
Stage 18	Plug	12,992	
	Perf 1	12,963 -	12,961
	Perf 2	12,904 -	12,902
	Perf 3	12,845 -	12,843
	Perf 4	12,785 -	12,783
Stage 21	Plug	12,283	
	Perf 1	12,254 -	12,252
	Perf 2	12,195 -	12,193
	Perf 3	12,136 -	12,134
	Perf 4	12,076 -	12,074
Stage 24	Plug	11,574	
	Perf 1	11,545 -	11,543
	Perf 2	11,486 -	11,484
	Perf 3	11,427 -	11,425

Holes
12
12
12
12

1.302083333 bbls/perf (50 BPM)

1.5625 bbls/perf (60 BPM)

1.822916667 bbls/perf (70 BPM)

Old design
6
6
6
6
6
6

Formation Top	9,457
70° @	9,475
Perf Hardline	
Perf Hardline + 10'	10

	Perf 4	11,368 -	11,366
Stage 27	Plug	10,865	
	Perf 1	10,836 -	10,834
	Perf 2	10,777 -	10,775
	Perf 3	10,718 -	10,716
	Perf 4	10,659 -	10,657
Stage 30	Plug	10,156	
	Perf 1	10,127 -	10,125
	Perf 2	10,068 -	10,066
	Perf 3	10,009 -	10,007
	Perf 4	9,950 -	9,948

Goal seek to D2 by changing D4

← Goal Seek to D2 value by modifying D4

Current Design

	12	
	12	
	12	
1.736111 bbls/perf (50 BP	12	1.666667 bbls/perf 80 BPM)
2.083333 bbls/perf (60 BP	6	1.875 bbls/perf 90 BPM)
2.430556 bbls/perf (70 BP	6	2.083333 bbls/perf (100 BPM)

MD Choose the deeper of
MD these for Top of Formation (D2)
MD *Input to D2 Automatically*
MD

	Stage	Plug Depth MD (ft)
1	1	16,773
1	2	16,537
1	3	16,301
1	4	16,064
1	5	15,828
1	6	15,592
1	7	15,355
1	8	15,119
1	9	14,883
1	10	14,646
1	11	14,410
1	12	14,174
1	13	13,937
1	14	13,701
1	15	13,465
1	16	13,229
1	17	12,992
1	18	12,756
1	19	12,520
1	20	12,283
1	21	12,047
1	22	11,811
1	23	11,574
1	24	11,338
1	25	11,102
1	26	10,865
1	27	10,629
1	28	10,393
1	29	10,156
1	30	9,920
1	31	9,684
1	32	0
1	33	0
1	34	0
1	35	0
1	36	
1	37	
1	38	
1	39	
1	40	
1	41	
1	42	
1	43	
1	44	
1	45	

Perfs

16,813

16,874

16,744

16,685

16,626

16,566

16,507

16,448

16,389

16,330

16,271

16,212

16,153

16,094

16,035

15,976

15,917

15,858

15,798

15,739

15,680

15,621

15,562

15,503

15,444

15,385

15,326

15,267

15,208

15,149

15,090

15,030

14,971

14,912

14,853

14,794

14,735

14,676

14,617

14,558

14,499

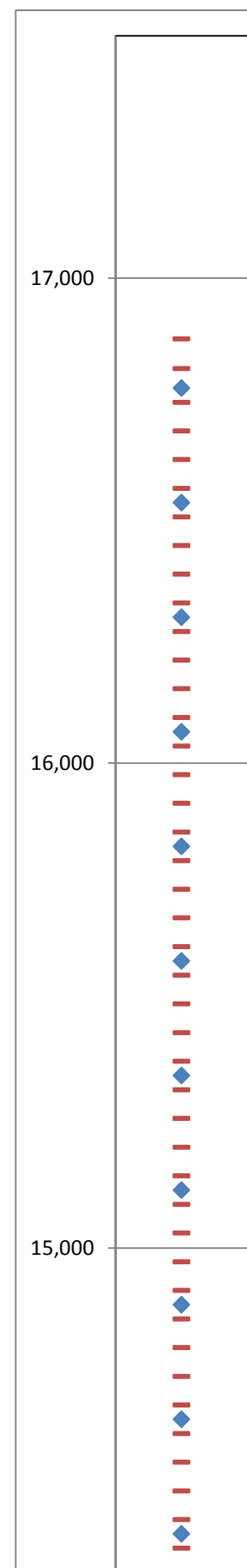
14,440

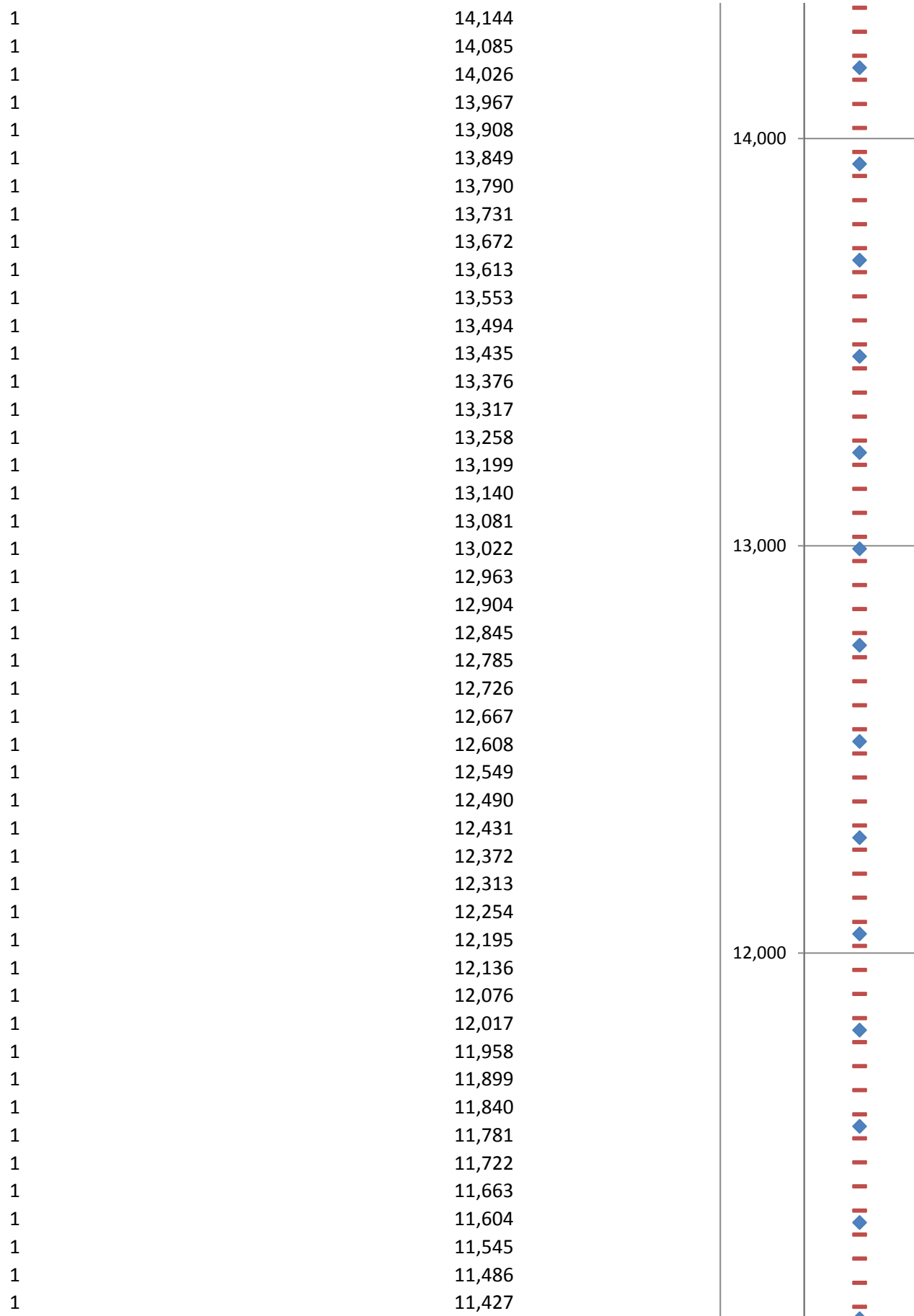
14,381

14,321

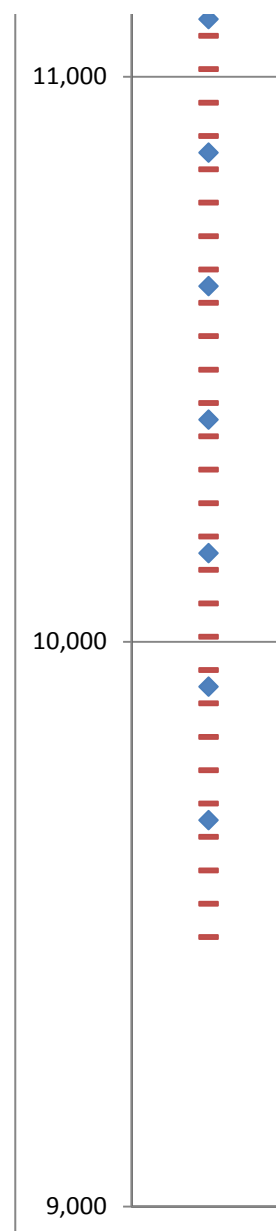
14,262

14,203





1	11,368
1	11,308
1	11,249
1	11,190
1	11,131
1	11,072
1	11,013
1	10,954
1	10,895
1	10,836
1	10,777
1	10,718
1	10,659
1	10,600
1	10,540
1	10,481
1	10,422
1	10,363
1	10,304
1	10,245
1	10,186
1	10,127
1	10,068
1	10,009
1	9,950
1	9,891
1	9,831
1	9,772
1	9,713
1	9,654
1	9,595
1	9,536
1	9,477
	0
	0
	0
	0



MD (ft)	Inc (°)	Azi (°)	TVD (usft)	N/S (ft)	E/W (ft)	Dogleg (°/100ft)
8,741	0.8	226.8	8,715	240	-302	0
8,793	0.9	212.5	8,767	240	-302	0
8,825	2.9	191.5	8,799	239	-303	7
8,857	6.4	184.8	8,831	236	-303	11
8,889	9.7	182.5	8,862	232	-303	10
8,920	12.0	180.1	8,893	226	-303	8
8,952	14.3	178.6	8,924	219	-303	7
8,983	17.2	174.4	8,954	210	-303	10
9,015	20.3	175.1	8,984	200	-302	10
9,046	23.3	174.9	9,013	188	-301	10
9,078	25.5	174.0	9,042	175	-299	7
9,110	24.1	177.8	9,071	162	-298	7
9,141	25.6	176.8	9,099	149	-298	5
9,172	28.1	175.1	9,127	135	-297	8
9,204	31.0	173.2	9,155	119	-295	10
9,235	34.1	172.4	9,181	103	-293	10
9,267	36.3	171.1	9,207	85	-290	7
9,299	41.5	171.1	9,232	65	-287	16
9,330	47.9	171.2	9,254	43	-284	21
9,361	54.8	172.1	9,273	19	-281	22
9,393	59.7	171.9	9,291	-8	-277	15
9,425	62.8	169.5	9,306	-35	-272	12
9,456	67.6	167.5	9,319	-63	-267	16
9,489	71.8	167.7	9,331	-93	-260	13
9,521	74.9	167.3	9,340	-123	-253	10
9,552	76.9	167.0	9,347	-152	-247	7
9,584	79.7	166.9	9,354	-183	-240	9
9,616	82.9	167.2	9,359	-214	-232	10
9,647	85.7	167.1	9,362	-244	-226	9
9,679	88.8	167.2	9,363	-275	-218	10
9,742	90.9	167.5	9,363	-336	-205	3
9,836	91.0	167.2	9,362	-428	-184	0
9,931	90.8	166.7	9,360	-520	-162	1
10,026	90.7	165.9	9,359	-613	-140	1
10,121	91.2	166.1	9,357	-705	-117	1
10,216	91.2	163.8	9,356	-797	-92	2
10,310	91.8	165.6	9,353	-887	-68	2
10,405	91.7	166.9	9,350	-980	-45	1
10,499	90.8	167.3	9,348	-1,071	-24	1
10,593	91.1	165.7	9,346	-1,162	-2	2
10,688	90.4	166.5	9,345	-1,255	21	1
10,783	90.2	167.2	9,345	-1,347	42	1
10,878	91.4	169.1	9,343	-1,440	62	2
10,973	90.5	168.3	9,342	-1,533	81	1
11,067	90.3	167.9	9,341	-1,625	100	0
11,162	89.2	168.6	9,342	-1,718	119	1

11,257	89.3	168.4	9,343	-1,811	138	0
11,352	89.0	168.7	9,344	-1,904	157	0
11,448	88.3	167.5	9,347	-1,998	177	1
11,542	88.7	169.2	9,349	-2,090	196	2
11,637	89.3	169.5	9,351	-2,184	213	1
11,732	89.6	169.3	9,352	-2,277	231	0
11,827	90.9	169.9	9,351	-2,371	248	2
11,921	91.0	169.5	9,350	-2,463	265	0
12,017	91.3	171.3	9,348	-2,558	281	2
12,111	90.3	170.5	9,347	-2,650	296	1
12,206	90.5	170.0	9,346	-2,744	312	1
12,301	90.3	169.9	9,345	-2,838	329	0
12,395	90.7	169.7	9,344	-2,930	345	0
12,489	90.3	168.5	9,344	-3,022	363	1
12,584	89.8	167.7	9,344	-3,115	383	1
12,679	90.5	167.4	9,343	-3,208	403	1
12,774	90.0	166.7	9,343	-3,301	424	1
12,806	89.8	166.4	9,343	-3,332	432	1
12,837	89.8	166.4	9,343	-3,362	439	0
12,868	89.9	166.4	9,343	-3,392	447	0
12,900	90.0	166.4	9,343	-3,423	454	0
12,963	89.9	166.2	9,343	-3,484	469	0
13,058	90.8	167.6	9,343	-3,577	491	2
13,152	89.8	166.7	9,342	-3,669	511	1
13,247	90.0	166.1	9,342	-3,761	534	1
13,341	90.4	166.8	9,342	-3,852	556	1
13,437	90.7	166.2	9,341	-3,946	578	1
13,532	91.3	167.7	9,340	-4,038	600	2
13,627	90.0	167.5	9,339	-4,131	620	1
13,721	90.3	167.0	9,338	-4,223	641	1
13,817	91.2	166.8	9,337	-4,316	663	1
13,911	90.4	167.7	9,336	-4,408	683	1
14,005	90.6	167.5	9,335	-4,500	704	0
14,100	91.4	167.4	9,333	-4,592	724	1
14,194	91.3	166.9	9,331	-4,684	745	1
14,289	89.5	167.2	9,331	-4,776	767	2
14,384	90.3	166.3	9,331	-4,869	788	1
14,480	89.5	168.6	9,331	-4,963	809	3
14,574	89.2	168.4	9,332	-5,055	828	0
14,670	88.9	167.8	9,334	-5,149	848	1
14,765	89.1	167.4	9,335	-5,241	868	0
14,860	89.2	167.5	9,337	-5,334	889	0
14,955	89.7	167.8	9,337	-5,427	909	1
15,049	90.9	167.9	9,337	-5,519	929	1
15,144	89.3	168.8	9,337	-5,612	948	2
15,238	89.7	169.2	9,338	-5,704	966	1
15,333	89.7	167.8	9,338	-5,797	985	1

[illegible]