

30-025-45027

MAR 28 2019

RECEIVED


PHOENIX
TECHNOLOGY SERVICES

Job #: 63203
Client: Advance Energy Partners
Well: Merchant State Unit #506Y ST01
Field: Delaware
Rig: H&P 262
Phoenix Rep: Chris Marks

North Type: GRID
Total Correction: 6.30 degrees
Target TVD: 10904 feet
Vertical Section Dir.: 179.56 degrees
Dip Angle: 60.26
TMF: 0.4818
TGF: 1.0000

SURVEY DATA															
No.	Date	Time	M. Depth	Bit to DU	SD	INC	AZM	C.L	TVD	VS	N/-S	E/-W	DLS	BR	
0	xxx	xxx	0	0.00	0	0.00	0.00	*****	0.00	0.00	0.00	0.00	*****	*****	
1	28-Jul	4:11	311	62	249	0.50	27.17	(249)	249.00	-0.96	0.97	0.50	0.20	0.20	
2	28-Jul	5:15	432	62	370	0.47	17.50	(121)	369.99	-1.90	1.91	0.89	0.07	-0.02	
3	28-Jul	6:30	524	62	462	0.74	9.27	92	461.99	-2.85	2.86	1.10	0.31	0.29	
4	28-Jul	7:10	584	62	522	0.67	346.40	60	521.98	-3.57	3.58	1.08	0.48	-0.12	
5	28-Jul	7:40	643	62	581	0.98	344.69	59	580.98	-4.39	4.40	0.86	0.53	0.53	
6	28-Jul	8:00	700	62	638	0.89	357.17	57	637.97	-5.31	5.31	0.71	0.39	-0.16	
7	28-Jul	8:35	759	62	697	1.19	350.45	59	696.96	-6.37	6.38	0.59	0.55	0.51	
8	28-Jul	9:00	819	62	757	1.04	348.65	60	756.95	-7.52	7.52	0.38	0.26	-0.25	
9	28-Jul	10:15	911	62	849	1.17	338.35	92	848.93	-9.22	9.22	-0.14	0.26	0.14	
10	28-Jul	11:30	1002	62	940	0.74	344.10	91	939.92	-10.65	10.64	-0.64	0.48	-0.47	
11	28-Jul	12:30	1094	62	1032	0.25	258.95	92	1031.92	-11.18	11.18	-1.00	0.83	-0.53	
12	28-Jul	15:15	1185	62	1123	0.52	196.20	91	1122.91	-10.75	10.74	-1.31	0.51	0.30	
13	28-Jul	16:20	1276	62	1214	0.28	213.70	91	1213.91	-10.17	10.16	-1.55	0.29	-0.26	
14	28-Jul	18:52	1368	62	1306	0.34	208.72	92	1305.91	-9.75	9.73	-1.80	0.07	0.07	
15	28-Jul	20:00	1460	62	1398	0.47	194.64	92	1397.91	-9.14	9.13	-2.03	0.18	0.14	
16	28-Jul	21:09	1552	62	1490	0.48	188.86	92	1489.90	-8.40	8.38	-2.18	0.05	0.01	
17	28-Jul	21:42	1644	62	1582	0.44	190.26	92	1581.90	-7.67	7.66	-2.31	0.05	-0.04	
18	28-Jul	22:16	1738	62	1676	0.49	181.94	94	1675.90	-6.92	6.90	-2.38	0.09	0.05	
19	28-Jul	22:55	1785	62	1723	0.46	187.35	47	1722.90	-6.53	6.51	-2.42	0.11	-0.06	
20	31-Jul	0:19	1934	70	1864	0.91	151.41	(141)	1863.89	-4.98	4.97	-1.95	0.43	0.32	
21	31-Jul	0:47	2029	70	1959	0.91	143.86	95	1958.87	-3.70	3.69	-1.15	0.13	0.00	
22	31-Jul	1:24	2123	70	2053	1.09	121.94	94	2052.86	-2.62	2.62	0.05	0.45	0.19	
23	31-Jul	1:56	2218	70	2148	0.95	103.78	95	2147.85	-1.94	1.95	1.58	0.37	-0.15	
24	31-Jul	2:03	2312	70	2242	0.70	108.77	94	2241.84	-1.56	1.58	2.88	0.28	-0.27	
25	31-Jul	3:13	2407	70	2337	0.43	126.42	95	2336.83	-1.16	1.18	3.72	0.33	-0.28	
26	31-Jul	3:48	2501	70	2431	0.31	72.14	94	2430.83	-1.02	1.05	4.25	0.38	-0.13	
27	31-Jul	4:27	2596	70	2526	0.70	63.08	95	2525.83	-1.36	1.39	5.01	0.42	0.41	
28	31-Jul	4:53	2690	70	2620	0.72	75.53	94	2619.82	-1.76	1.80	6.09	0.17	0.02	
29	31-Jul	5:25	2785	70	2715	0.38	30.69	95	2714.81	-2.17	2.22	6.83	0.55	-0.36	
30	31-Jul	6:00	2879	70	2809	0.32	21.78	94	2808.81	-2.68	2.73	7.09	0.09	-0.06	
31	31-Jul	6:25	2974	70	2904	0.37	21.14	95	2903.81	-3.21	3.27	7.30	0.05	0.05	
32	31-Jul	7:00	3068	70	2998	0.58	70.95	94	2997.81	-3.64	3.70	7.86	0.47	0.22	
33	31-Jul	7:20	3163	70	3093	0.90	50.40	95	3092.80	-4.27	4.34	8.89	0.43	0.34	
34	31-Jul	8:00	3257	70	3187	1.17	65.70	94	3186.79	-5.12	5.20	10.33	0.41	0.29	
35	31-Jul	8:30	3351	70	3281	1.17	64.70	94	3280.77	-5.91	6.01	12.07	0.02	0.00	
36	31-Jul	9:15	3446	70	3376	0.89	48.13	95	3375.75	-6.81	6.91	13.50	0.43	-0.29	
37	31-Jul	9:55	3541	70	3471	0.32	218.35	95	3470.75	-7.09	7.20	13.88	1.27	-0.60	
38	31-Jul	10:50	3635	70	3565	0.93	209.88	94	3564.74	-6.23	6.33	13.34	0.65	0.65	
39	31-Jul	12:50	3730	70	3660	0.71	205.60	95	3659.73	-5.03	5.13	12.70	0.24	-0.23	
40	31-Jul	13:25	3824	70	3754	0.40	196.41	94	3753.73	-4.20	4.29	12.36	0.34	-0.33	
41	31-Jul	13:55	3919	70	3849	0.58	227.87	95	3848.72	-3.56	3.65	11.91	0.33	0.19	
42	31-Jul	14:30	4013	70	3943	0.49	237.25	94	3942.72	-3.03	3.12	11.22	0.13	-0.10	
43	31-Jul	15:00	4202	70	4132	0.43	238.58	(189)	4131.71	-2.23	2.31	9.93	0.03	-0.03	
44	31-Jul	16:00	4390	70	4320	0.38	131.72	(188)	4319.71	-1.45	1.53	9.79	0.35	-0.03	
45	31-Jul	16:20	4485	70	4415	0.36	46.53	95	4414.71	-1.44	1.52	10.25	0.53	-0.02	
46	31-Jul	16:50	4579	70	4509	0.72	25.51	94	4508.71	-2.18	2.26	10.71	0.43	0.38	
47	31-Jul	18:15	4673	70	4603	0.74	56.51	94	4602.70	-3.04	3.13	11.48	0.42	0.02	
48	31-Jul	20:46	4768	70	4698	0.75	44.54	95	4697.69	-3.81	3.91	12.42	0.16	0.01	
49	1-Aug	7:40	4947	60	4887	0.79	35.62	(189)	4886.67	-5.74	5.85	14.05	0.07	0.02	
50	1-Aug	8:05	5041	60	4981	0.58	23.59	94	4980.67	-6.70	6.81	14.62	0.27	-0.22	
51	1-Aug	9:15	5135	60	5075	0.12	306.95	94	5074.66	-7.19	7.31	14.73	0.60	-0.49	
52	1-Aug	9:50	5240	60	5180	0.50	262.10	(105)	5179.66	-7.20	7.31	14.19	0.40	0.36	
53	3-Aug	15:25	5330	71	5259	0.56	250.77	79	5258.66	-7.03	7.13	13.48	0.15	0.08	
54	3-Aug	15:55	5424	71	5353	0.53	252.67	94	5352.66	-6.76	6.85	12.63	0.04	-0.03	
55	3-Aug	18:00	5613	71	5542	0.30	259.72	(189)	5541.65	-6.42	6.51	11.31	0.12	-0.12	
56	3-Aug	18:32	5707	71	5636	0.23	260.18	94	5635.65	-6.35	6.43	10.88	0.07	-0.07	
57	3-Aug	19:22	5802	71	5731	1.22	298.43	95	5730.64	-6.80	6.88	9.81	1.10	1.04	
58	3-Aug	19:51	5896	71	5825	2.07	303.83	94	5824.60	-8.24	8.30	7.52	0.92	0.90	
59	3-Aug	21:19	6084	71	6013	2.04	302.21	(188)	6012.48	-11.96	11.97	1.86	0.03	-0.02	
60	3-Aug	22:00	6178	71	6107	1.99	302.20	94	6106.42	-13.74	13.73	-0.93	0.05	-0.05	
61	3-Aug	22:20	6273	71	6202	2.08	302.41	95	6201.36	-15.57	15.54	-3.78	0.10	0.09	
62	3-Aug	23:11	6462	71	6391	1.84	288.72	(189)	6390.25	-18.42	18.35	-9.55	0.28	-0.13	
63	3-Aug	23:42	6556	71	6485	1.79	276.88	94	6484.21	-19.11	19.01	-12.44	0.40	-0.05	
64	3-Aug	23:55	6651	71	6580	1.68	267.46	95	6579.16	-19.24	19.13	-15.30	0.32	-0.12	
65	4-Aug	0:21	6745	71	6674	1.82	273.91	94	6673.12	-19.31	19.17	-18.17	0.26	0.15	
66	4-Aug	0:46	6840	71	6769	1.75	250.80	95	6768.07	-18.95	18.79	-21.04	0.76	-0.07	
67	4-Aug	1:04	6934	71	6863	2.01	238.94	94	6862.02	-17.65	17.47	-23.81	0.50	0.28	
68	4-Aug	1:27	7029	71	6958	1.92	241.57	95	6956.97	-16.06	15.85	-26.64	0.13	-0.09	
69	4-Aug	2:15	7123	71	7052	1.46	255.08	94	7050.93	-15.02	14.79	-29.18	0.64	-0.49	
70	4-Aug	2:37	7218	71	7147	0.93	267.49	95	7145.91	-14.69	14.45	-31.12	0.62	-0.56	
71	4-Aug	3:14	7312	71	7241	0.22	250.25	94	7239.90	-14.60	14.36	-32.05	0.77	-0.76	
72	4-Aug	3:46	7406	71	7335	0.49	106.89	94	7333.90	-14.42	14.18	-31.84	0.72	0.29	

SURVEY DATA														
No.	Date	Time	M. Depth	Bit to DU	SD	INC	AZM	C.L	TVD	VS	N-S	E-W	DLS	BR
73	4-Aug	4:11	7501	71	7430	0.50	159.36	95	7428.90	-13.91	13.67	-31.30	0.46	0.01
74	4-Aug	4:37	7595	71	7524	0.55	177.57	94	7522.89	-13.08	12.84	-31.14	0.18	0.05
75	4-Aug	5:07	7689	71	7618	0.64	166.44	94	7616.89	-12.11	11.88	-31.00	0.16	0.10
76	4-Aug	5:30	7784	71	7713	0.57	150.96	95	7711.88	-11.18	10.95	-30.64	0.19	-0.07
77	4-Aug	6:30	7972	71	7901	0.71	144.78	(188)	7899.87	-9.40	9.18	-29.52	0.08	0.07
78	4-Aug	7:40	8161	71	8090	0.59	160.45	(189)	8088.86	-7.52	7.30	-28.52	0.11	-0.06
79	4-Aug	8:55	8256	71	8185	0.56	185.03	95	8183.85	-6.60	6.38	-28.39	0.26	-0.03
80	4-Aug	9:40	8350	71	8279	0.76	184.97	94	8277.85	-5.52	5.30	-28.49	0.21	0.21
81	4-Aug	10:05	8445	71	8374	0.86	191.98	95	8372.84	-4.20	3.98	-28.69	0.15	0.11
82	4-Aug	10:50	8539	71	8468	0.53	221.66	94	8466.83	-3.19	2.96	-29.13	0.51	-0.35
83	4-Aug	11:45	8634	71	8563	0.81	319.40	95	8561.83	-3.37	3.14	-29.86	1.08	0.29
84	4-Aug	12:30	8728	71	8657	1.56	340.20	94	8655.81	-5.09	4.85	-30.72	0.91	0.80
85	4-Aug	13:05	8822	71	8751	1.41	334.87	94	8749.78	-7.35	7.10	-31.65	0.22	-0.16
86	4-Aug	14:00	8916	71	8845	1.20	314.90	94	8843.75	-9.10	8.84	-32.83	0.53	-0.22
87	4-Aug	14:50	9010	71	8939	1.15	296.60	94	8937.73	-10.23	9.96	-34.37	0.40	-0.05
88	4-Aug	15:45	9105	71	9034	1.07	265.17	95	9032.71	-10.59	10.31	-36.11	0.64	-0.08
89	4-Aug	17:15	9199	71	9128	0.27	240.00	94	9126.71	-10.41	10.13	-37.18	0.89	-0.85
90	4-Aug	17:55	9294	71	9223	0.21	310.82	95	9221.71	-10.42	10.13	-37.50	0.30	-0.06
91	4-Aug	18:53	9388	71	9317	1.18	356.77	94	9315.70	-11.50	11.21	-37.69	1.11	1.03
92	4-Aug	20:03	9577	71	9506	2.07	19.14	(189)	9504.62	-16.66	16.38	-36.68	0.57	0.47
93	4-Aug	21:16	9671	71	9600	1.77	5.23	94	9598.57	-19.70	19.43	-35.99	0.59	-0.32
94	4-Aug	22:08	9765	71	9694	2.49	346.33	94	9692.51	-23.14	22.86	-36.34	1.06	0.77
95	4-Aug	23:47	9860	71	9789	1.96	358.64	95	9787.44	-26.77	26.49	-36.87	0.75	-0.56
96	6-Aug	4:45	9978	58	9920	0.98	20.54	(131)	9918.39	-30.06	29.78	-36.53	0.85	-0.75
97	6-Aug	6:10	10073	58	10015	1.12	165.28	95	10013.39	-29.91	29.64	-36.00	2.11	0.15
98	6-Aug	8:40	10167	58	10109	1.58	171.28	94	10107.36	-27.74	27.47	-35.58	0.51	0.49
99	6-Aug	11:00	10262	58	10204	1.44	173.39	95	10202.33	-25.26	24.99	-35.24	0.16	-0.15
100	6-Aug	15:30	10356	58	10298	2.68	164.83	94	10296.26	-21.96	21.69	-34.53	1.36	1.32
101	6-Aug	16:00	10403	58	10345	7.90	182.05	47	10343.05	-17.67	17.40	-34.36	11.49	11.11
102	6-Aug	19:30	10451	58	10393	11.15	187.28	48	10390.38	-9.77	9.50	-35.06	7.00	6.77
103	6-Aug	22:36	10498	58	10440	15.29	181.54	47	10436.13	0.93	-1.21	-35.80	9.23	8.81
104	7-Aug	1:13	10545	58	10487	19.76	179.37	47	10480.94	15.08	-15.35	-35.88	9.61	9.51
105	7-Aug	4:10	10592	58	10534	23.12	176.65	47	10524.68	32.24	-32.52	-35.26	7.45	7.15
106	7-Aug	6:40	10639	58	10581	28.43	175.12	47	10566.99	52.63	-52.89	-33.77	11.39	11.30
107	7-Aug	9:05	10686	58	10628	32.59	175.64	47	10607.47	76.42	-76.67	-31.85	8.87	8.85
108	8-Aug	11:00	10770	63	10707	36.19	180.35	79	10672.66	120.99	-121.23	-30.37	5.66	4.56
109	8-Aug	19:43	10865	63	10802	40.38	178.28	95	10747.22	179.83	-180.06	-29.62	4.61	4.41
110	8-Aug	22:25	10912	63	10849	45.38	176.61	47	10781.65	211.78	-212.00	-28.18	10.91	10.64
111	8-Aug	23:50	10959	63	10896	50.58	176.43	47	10813.10	246.63	-246.84	-26.05	11.07	11.06
112	9-Aug	4:15	11006	63	10943	56.68	175.10	47	10840.96	284.37	-284.56	-23.24	13.18	12.98
113	9-Aug	5:34	11053	63	10990	61.64	175.52	47	10885.05	324.60	-324.77	-19.95	10.58	10.55
114	9-Aug	6:25	11100	63	11037	67.89	176.95	47	10885.07	367.03	-367.17	-17.17	13.58	13.30
115	9-Aug	8:30	11147	63	11084	73.98	178.92	47	10900.42	411.41	-411.54	-15.59	13.55	12.96
116	9-Aug	18:00	11242	63	11179	79.41	179.58	95	10922.28	503.82	-503.95	-14.38	5.76	5.72
117	9-Aug	21:30	11336	63	11273	88.15	178.54	94	10932.45	597.17	-597.29	-12.84	9.36	9.30
118	9-Aug	22:30	11431	63	11368	90.22	178.57	95	10933.80	692.14	-692.24	-10.45	2.18	2.18
119	10-Aug	0:15	11525	63	11462	90.36	178.28	94	10933.33	786.12	-786.21	-7.87	0.34	0.15
120	10-Aug	1:20	11620	63	11557	90.42	178.31	95	10932.68	881.10	-881.16	-5.04	0.07	0.06
121	10-Aug	2:40	11714	63	11651	88.41	179.11	94	10933.64	975.08	-975.13	-2.92	2.30	-2.14
122	10-Aug	3:40	11808	63	11745	87.79	179.36	94	10936.76	1069.02	-1069.07	-1.67	0.71	-0.66
123	10-Aug	4:50	11903	63	11840	87.01	178.97	95	10941.07	1163.92	-1163.96	-0.29	0.92	-0.82
124	10-Aug	6:50	11997	63	11934	88.12	179.49	94	10945.06	1257.83	-1257.86	0.98	1.30	1.18
125	10-Aug	7:55	12091	63	12028	89.16	179.94	94	10947.29	1351.80	-1351.83	1.44	1.21	1.11
126	10-Aug	8:55	12186	63	12123	89.55	179.64	95	10948.36	1446.80	-1446.83	1.79	0.52	0.41
127	10-Aug	9:50	12280	63	12217	89.78	179.45	94	10948.91	1540.80	-1540.82	2.54	0.32	0.24
128	10-Aug	11:00	12375	63	12312	89.47	179.31	95	10949.53	1635.79	-1635.81	3.57	0.36	-0.33
129	10-Aug	12:00	12469	63	12406	89.24	179.34	94	10950.59	1729.79	-1729.80	4.67	0.25	-0.24
130	10-Aug	12:55	12564	63	12501	89.08	179.04	95	10951.98	1824.77	-1824.78	6.02	0.36	-0.17
131	10-Aug	13:55	12658	63	12595	88.80	178.89	94	10953.72	1918.75	-1918.75	7.71	0.34	-0.30
132	10-Aug	16:55	12753	63	12690	89.94	178.47	95	10954.77	2013.73	-2013.72	9.90	1.28	1.20
133	10-Aug	19:00	12848	63	12785	90.70	179.05	95	10954.23	2108.72	-2108.69	11.96	1.01	0.80
134	10-Aug	19:55	12942	63	12879	90.45	178.47	94	10953.29	2202.71	-2202.67	13.99	0.67	-0.27
135	10-Aug	21:30	13036	63	12973	89.72	179.07	94	10953.15	2296.70	-2296.64	16.01	1.01	-0.78
136	10-Aug	22:30	13131	63	13068	90.22	178.79	95	10953.20	2391.69	-2391.63	17.78	0.60	0.53
137	11-Aug	0:45	13225	63	13162	89.44	179.05	94	10953.48	2485.68	-2485.61	19.56	0.87	-0.83
138	11-Aug	2:35	13320	63	13257	89.21	180.05	95	10954.60	2580.68	-2580.60	20.30	1.08	-0.24
139	11-Aug	3:30	13414	63	13351	88.69	179.94	94	10956.32	2674.66	-2674.58	20.31	0.57	-0.55
140	11-Aug	4:48	13508	63	13445	88.54	179.27	94	10958.59	2768.63	-2768.55	20.96	0.73	-0.16
141	11-Aug	7:30	13603	63	13540	89.41	180.21	95	10960.29	2863.61	-2863.53	21.39	1.35	0.92
142	11-Aug	8:40	13697	63	13634	90.17	180.58	94	10960.64	2957.60	-2957.53	20.74	0.90	0.81
143	11-Aug	14:15	13791	63	13728	90.17	181.62	94	10960.36	3051.56	-3051.51	18.94	1.11	0.00
144	11-Aug	18:50	13885	63	13822	88.32	181.99	94	10961.60	3145.48	-3145.45	15.98	2.01	-1.97
145	11-Aug	20:14	13980	63	13917	88.66	181.30	95	10964.10	3240.38	-3240.38	13.25	0.81	0.36
146	11-Aug	21:30	14074	63	14011	88.85	180.86	94	10966.14	3334.33	-3334.34	11.48	0.51	0.20
147	11-Aug	22:10	14168	63	14105	89.21	180.42	94	10967.74	3428.30	-3428.32	10.43	0.60	0.38
148	12-Aug	0:50	14263	63	14200	89.24	179.78	95	10969.02	3523.28	-3523.31	10.26	0.67	0.03
149	12-Aug	2:20	14357	63	14294	89.86	179.27	94	10969.76	3617.28	-3617.30	11.04	0.85	0.66
150	12-Aug	3:30	14451	63	14388	89.72	178.50	94	10970.10	3711.27	-3711.28	12.87	0.83	-0.15
151	12-Aug	6:32	14546	63	14483	88.18	179.26	95	10971.84	3806.25	-3806.25	14.73	1.81	-1.62
152	12-Aug	7:40	14640	63	14577	87.76	179.00	94	10975.17	3900.18	-3900.18	16.15	0.53	-0.45
153	12-Aug	8:50	14735	63	14672	87.65	178.66	95	10978.98	3995.10	-3995.08	18.09	0.38	-0.12
154	12-Aug	14:00	14829	63	14766	86.47	179.41	94	10983.80	4088.97	-4088.94	19.67	1.49	-1.26
155	12-Aug	18:57	14924	63	14861	87.53	178.05	95	10988.77	4183.83	-4183.78	21.78	1.81	1.

SURVEY DATA														
No.	Date	Time	M. Depth	Bit to DU	SD	INC	AZM	C.L	TVD	VS	N/S	E/W	DLS	BR
159	13-Aug	4:00	15301	63	15238	91.20	179.61	94	10989.89	4560.76	-4560.71	24.24	0.92	0.91
160	13-Aug	7:00	15396	63	15333	90.11	179.90	95	10988.81	4655.75	-4655.70	24.64	1.19	-1.15
161	13-Aug	9:45	15490	63	15427	89.47	179.48	94	10989.15	4749.75	-4749.70	25.15	0.81	-0.68
162	13-Aug	11:37	15584	63	15521	89.61	179.18	94	10989.90	4843.75	-4843.69	26.25	0.35	0.15
163	13-Aug	13:27	15679	63	15616	89.52	178.70	95	10990.63	4938.74	-4938.67	28.01	0.51	-0.09
164	13-Aug	15:44	15773	63	15710	89.91	178.06	94	10991.09	5032.72	-5032.63	30.66	0.80	0.41
165	13-Aug	18:15	15867	63	15804	88.96	178.26	94	10992.02	5126.69	-5126.58	33.68	1.03	-1.01
166	13-Aug	20:50	15961	63	15898	88.69	178.34	94	10993.95	5220.64	-5220.52	36.47	0.30	-0.29
167	13-Aug	23:00	16055	63	15992	88.60	179.31	94	10996.17	5314.61	-5314.47	38.40	1.04	-0.10
168	14-Aug	1:15	16150	63	16087	88.93	180.39	95	10998.22	5409.58	-5409.45	38.65	1.19	0.35
169	14-Aug	2:25	16244	63	16181	89.41	180.35	94	10999.58	5503.56	-5503.43	38.04	0.51	0.51
170	14-Aug	3:36	16338	63	16275	90.50	179.42	94	10999.65	5597.56	-5597.43	38.23	1.52	1.16
171	14-Aug	5:50	16432	63	16369	90.70	180.19	94	10998.81	5691.55	-5691.42	38.55	0.85	0.21
172	14-Aug	8:25	16527	63	16464	90.50	180.56	95	10997.68	5786.54	-5786.42	37.93	0.44	-0.21
173	14-Aug	11:35	16621	63	16558	89.52	180.65	94	10997.66	5880.52	-5880.41	36.93	1.05	-1.04
174	14-Aug	13:45	16716	63	16653	89.50	179.33	95	10998.47	5975.51	-5975.40	36.95	1.39	-0.02
175	14-Aug	17:00	16810	63	16747	89.41	180.26	94	10999.37	6069.51	-6069.40	37.29	0.99	-0.10
176	14-Aug	18:40	16904	63	16841	89.91	180.31	94	10999.92	6163.50	-6163.40	36.82	0.53	0.53
177	14-Aug	20:45	16999	63	16936	89.16	180.15	95	11000.69	6258.49	-6258.39	36.44	0.81	-0.79
178	14-Aug	23:15	17093	63	17030	89.11	180.18	94	11002.11	6352.47	-6352.38	36.17	0.06	-0.05
179	15-Aug	2:00	17188	63	17125	88.23	180.97	95	11004.32	6447.43	-6447.35	35.21	1.24	-0.93
180	15-Aug	3:34	17282	63	17219	88.15	180.66	94	11007.29	6541.36	-6541.29	33.88	0.34	-0.09
181	15-Aug	5:35	17376	63	17313	88.07	180.00	94	11010.39	6635.30	-6635.24	33.34	0.71	-0.09
182	16-Aug	11:00	17501	62	17439	88.15	178.77	(126)	11014.54	6761.23	-6761.16	34.69	0.98	0.06
183	16-Aug	11:50	17595	62	17533	87.73	178.57	94	11017.92	6855.15	-6855.07	36.87	0.49	-0.45
184	16-Aug	13:30	17689	62	17627	87.81	178.58	94	11021.58	6949.07	-6948.97	39.20	0.09	0.09
185	16-Aug	15:00	17784	62	17722	88.71	178.50	95	11024.46	7044.01	-7043.90	41.62	0.95	0.95
186	16-Aug	17:00	17878	62	17816	88.60	178.08	94	11026.67	7137.96	-7137.83	44.43	0.46	-0.12
187	16-Aug	18:45	17972	62	17910	88.88	178.13	94	11028.74	7231.91	-7231.76	47.54	0.30	0.30
188	16-Aug	21:15	18066	62	18004	90.20	178.16	94	11029.49	7325.87	-7325.70	50.58	1.40	1.40
189	16-Aug	22:05	18161	62	18099	89.33	178.69	95	11029.88	7420.85	-7420.66	53.19	1.07	-0.92
190	17-Aug	0:35	18255	62	18193	90.14	179.40	94	11030.32	7514.85	-7514.65	54.76	1.15	0.86
191	17-Aug	2:30	18349	62	18287	90.84	180.61	94	11029.51	7608.84	-7608.64	54.75	1.49	0.74
192	17-Aug	3:50	18444	62	18382	90.79	179.66	95	11028.16	7703.82	-7703.63	54.52	1.00	-0.05
193	17-Aug	6:00	18538	62	18476	90.36	180.61	94	11027.22	7797.81	-7797.62	54.30	1.11	-0.46
194	17-Aug	7:05	18632	62	18570	90.31	180.00	94	11026.67	7891.80	-7891.62	53.80	0.65	-0.05
195	17-Aug	9:18	18726	62	18664	89.64	180.54	94	11026.71	7985.79	-7985.62	53.36	0.92	-0.71
196	17-Aug	10:15	18821	62	18759	90.26	179.17	95	11026.79	8080.79	-8080.62	53.60	1.58	0.65
197	17-Aug	12:50	18915	62	18853	89.08	180.14	94	11027.33	8174.79	-8174.61	54.17	1.62	-1.26
198	17-Aug	14:05	19010	62	18948	88.85	178.98	95	11029.05	8269.77	-8269.59	54.89	1.24	-0.24
199	17-Aug	17:00	19104	62	19042	87.73	179.15	94	11031.85	8363.72	-8363.53	56.43	1.21	-1.19
200	17-Aug	19:05	19199	62	19137	89.22	179.55	95	11034.38	8458.68	-8458.49	57.50	1.62	1.57
201	17-Aug	20:15	19293	62	19231	89.30	178.86	94	11035.60	8552.67	-8552.47	58.81	0.74	0.09
202	17-Aug	22:45	19388	62	19326	88.66	179.93	95	11037.29	8647.66	-8647.45	59.81	1.31	-0.67
203	18-Aug	1:25	19482	62	19420	88.21	180.65	94	11039.86	8741.61	-8741.42	59.34	0.90	-0.48
204	18-Aug	5:15	19577	62	19515	89.30	181.22	95	11041.92	8836.56	-8836.38	57.79	1.29	1.15
205	18-Aug	7:25	19671	62	19609	90.26	181.54	94	11042.28	8930.51	-8930.35	55.52	1.08	1.02
206	18-Aug	8:30	19766	62	19704	90.34	180.35	95	11041.78	9025.48	-9025.33	53.96	1.26	0.08
207	18-Aug	10:50	19860	62	19798	90.26	180.75	94	11041.29	9119.47	-9119.33	53.05	0.43	-0.09
208	18-Aug	11:45	19955	62	19893	89.38	179.93	95	11041.59	9214.45	-9214.32	52.49	1.27	-0.93
209	20-Aug	22:00	20044	57	19987	87.80	181.70	94	11043.90	9308.40	-9308.28	51.15	2.52	-1.68

[illegible]