

30-015-43929



Job #: 60838
 Client: Chevron Wellbore Name
 Well: HH SO P3 #16H OWB
 Field: Permian
 Rig: Patterson 270
 Phoenix Rep: Johnson/Robinson

North Type: Grid
 Total Correction: 7.29 degrees
 Target TVD: 10212.08 feet
 Vertical Section Dir.: 172.96 degrees
 Dip Angle: 59.8
 TMF: 0.48011
 TGF: 0.9992

WIM OIL CONSERVATION
 ARTESIA DISTRICT

JUL 03 2018

RECEIVED

SURVEY DATA

No.	Date	Time	M. Depth	Bit to DU	SD	INC	AZM	C.L	TVD	VS	N/-S	E/-W	DLS	B./D.
0	xxx	xxx	xxx	xxx	0	0.00	0.00	xxx	0.00	0.00	0.00	0.00	0.00	****
1	27-Aug	20:06	173	0	173	0.60	342.00	(173)	173.00	-0.89	0.86	-0.28	0.35	0.35
2	27-Aug	20:06	358	0	358	1.00	342.00	(185)	357.98	-3.43	3.32	-1.08	0.22	0.22
3	27-Aug	20:06	438	0	438	1.20	317.00	80	437.96	-4.79	4.59	-1.87	0.64	0.25
4	27-Aug	20:06	600	74	526	1.60	324.26	88	525.94	-6.61	6.27	-3.21	0.50	0.45
5	27-Aug	20:06	692	74	618	0.68	106.79	92	617.93	-7.52	7.15	-3.44	2.37	-1.00
6	27-Aug	20:06	785	74	711	3.53	114.94	93	710.86	-5.78	5.78	-0.31	3.07	3.06
7	27-Aug	20:06	875	74	801	5.06	134.63	90	800.60	-1.20	1.83	5.02	2.34	1.70
8	27-Aug	20:06	1034	74	960	8.96	124.18	(159)	958.39	12.47	-10.06	20.26	2.57	2.45
9	27-Aug	20:06	1129	74	1055	11.05	112.55	95	1051.95	21.84	-17.71	34.79	3.05	2.20
10	27-Aug	20:06	1224	74	1150	12.26	109.87	95	1144.99	30.90	-24.63	52.69	1.40	1.27
11	27-Aug	20:06	1319	74	1245	13.80	108.71	95	1237.54	40.39	-31.69	72.91	1.64	1.62
12	27-Aug	20:06	1415	74	1341	13.40	106.77	96	1330.85	49.85	-38.57	94.40	0.63	-0.42
13	27-Aug	20:06	1510	74	1436	14.29	107.79	95	1423.09	59.22	-45.33	116.11	0.97	0.94
14	27-Aug	20:06	1605	74	1531	16.92	108.93	95	1514.58	70.20	-53.40	140.35	2.79	2.77
15	27-Aug	20:06	1700	74	1626	17.66	110.10	95	1605.29	82.83	-62.84	166.96	0.86	0.78
16	27-Aug	20:06	1794	74	1720	17.90	108.20	94	1694.80	95.49	-72.25	194.08	0.67	0.26
17	27-Aug	20:06	1888	74	1814	15.59	106.33	94	1784.81	106.66	-80.32	219.92	2.52	-2.46
18	27-Aug	20:06	1983	74	1909	14.19	105.73	95	1876.62	116.24	-87.06	243.38	1.48	-1.47
19	27-Aug	20:06	2077	74	2003	14.61	106.17	94	1967.66	125.37	-93.49	265.86	0.46	0.45
20	27-Aug	20:06	2172	74	2098	15.47	104.52	95	2059.41	134.74	-100.00	289.63	1.01	0.91
21	27-Aug	20:06	2267	74	2193	15.66	105.35	95	2150.92	144.28	-106.57	314.26	0.31	0.20
22	27-Aug	20:06	2362	74	2288	14.94	104.16	95	2242.56	153.60	-112.96	338.50	0.83	-0.76
23	27-Aug	20:06	2456	74	2382	13.60	104.86	94	2333.65	162.10	-118.76	360.93	1.44	-1.43
24	27-Aug	20:06	2551	74	2477	13.11	105.11	95	2426.08	170.33	-124.43	382.13	0.52	-0.52
25	27-Aug	20:06	2646	74	2572	13.47	104.02	95	2518.54	178.37	-129.92	403.27	0.46	0.38
26	27-Aug	20:06	2742	74	2668	13.57	104.35	96	2611.88	186.49	-135.42	425.03	0.13	0.10
27	27-Aug	20:06	2836	74	2762	13.55	103.27	94	2703.26	194.34	-140.68	446.43	0.27	-0.02
28	27-Aug	20:06	2932	74	2858	13.59	104.78	96	2796.58	202.43	-146.14	468.28	0.37	0.04
29	27-Aug	20:06	3027	74	2953	13.31	104.40	95	2888.97	210.58	-151.71	489.66	0.31	-0.29
30	27-Aug	20:06	3122	74	3048	13.96	105.28	95	2981.30	218.93	-157.45	511.31	0.72	0.68
31	27-Aug	20:06	3217	74	3143	14.47	105.13	95	3073.39	227.76	-163.57	533.82	0.54	0.54
32	27-Aug	20:06	3312	74	3238	13.98	104.09	95	3165.47	236.37	-169.46	556.41	0.58	-0.52
33	27-Aug	20:06	3407	74	3333	13.64	105.69	95	3257.73	244.84	-175.28	578.32	0.54	-0.36
34	27-Aug	20:06	3502	74	3428	14.77	106.38	95	3349.82	253.98	-181.72	600.72	1.20	1.19
35	27-Aug	20:06	3597	74	3523	15.97	108.10	95	3441.42	264.35	-189.20	624.77	1.35	1.26
36	27-Aug	20:09	3692	74	3618	16.48	107.60	95	3532.64	275.52	-197.33	650.03	0.56	0.54
37	27-Aug	20:09	3786	74	3712	16.58	108.40	94	3622.75	286.84	-205.60	675.47	0.26	0.11
38	27-Aug	20:09	3881	74	3807	16.13	108.97	95	3713.91	298.45	-214.17	700.81	0.50	-0.47
39	27-Aug	20:09	3975	74	3901	16.30	110.11	94	3804.17	310.19	-222.95	725.54	0.38	0.18
40	27-Aug	20:09	4070	74	3996	16.14	110.73	95	3895.39	322.43	-232.21	750.41	0.25	-0.17
41	27-Aug	20:09	4165	74	4091	16.05	111.80	95	3986.67	334.91	-241.76	774.96	0.33	-0.09
42	27-Aug	20:09	4259	74	4185	15.88	112.41	94	4077.04	347.50	-251.48	798.91	0.25	-0.18
43	27-Aug	20:09	4353	74	4279	15.98	113.10	94	4167.43	360.32	-261.46	822.70	0.23	0.11
44	27-Aug	20:09	4448	74	4374	15.82	113.47	95	4258.80	373.46	-271.75	846.61	0.20	-0.17
45	27-Aug	20:09	4542	74	4468	15.86	114.73	94	4349.23	386.73	-282.23	870.03	0.37	0.04
46	27-Aug	20:09	4637	74	4563	15.52	116.00	95	4440.69	400.50	-293.23	893.24	0.51	-0.36
47	27-Aug	20:09	4731	74	4657	14.97	116.22	94	4531.38	414.01	-304.11	915.44	0.59	-0.59
48	27-Aug	20:09	4826	74	4752	16.35	116.31	95	4622.85	428.09	-315.46	938.43	1.45	1.45
49	27-Aug	20:09	4919	74	4845	17.19	115.75	93	4711.90	442.73	-327.23	962.54	0.92	0.90
50	27-Aug	20:09	5014	74	4940	17.03	116.71	95	4802.69	458.06	-339.58	987.61	0.34	-0.17
51	27-Aug	20:09	5108	74	5034	16.61	117.69	94	4892.67	473.37	-352.01	1011.81	0.54	-0.45
52	27-Aug	20:09	5202	74	5128	16.49	118.11	94	4982.77	488.70	-364.54	1035.47	0.18	-0.13
53	27-Aug	20:09	5297	74	5223	16.58	118.87	95	5073.85	504.41	-377.44	1059.23	0.25	0.09
54	27-Aug	20:09	5392	74	5318	16.60	119.12	95	5164.89	520.37	-390.58	1082.96	0.08	0.02
55	27-Aug	20:09	5487	74	5413	15.57	116.51	95	5256.17	535.42	-402.88	1106.22	1.32	-1.08
56	27-Aug	20:09	5583	74	5509	14.86	111.86	96	5348.81	548.49	-413.21	1129.18	1.47	-0.74
57	27-Aug	20:09	5677	74	5603	14.20	108.68	94	5439.81	559.32	-421.40	1151.29	1.10	-0.70
58	27-Aug	20:09	5772	74	5698	12.90	106.34	95	5532.16	568.59	-428.11	1172.50	1.48	-1.37
59	27-Aug	20:09	5866	74	5792	10.72	101.73	94	5624.17	575.57	-432.84	1191.13	2.53	-2.32
60	27-Aug	20:09	5960	74	5886	8.00	97.26	94	5716.91	580.00	-435.45	1206.19	2.99	-2.89
61	27-Aug	20:09	6055	74	5981	5.86	92.08	95	5811.21	582.40	-436.46	1217.59	2.34	-2.25
62	27-Aug	20:09	6149	74	6075	3.52	85.40	94	5904.89	583.28	-436.40	1225.26	2.55	-2.49
63	27-Aug	20:11	6244	74	6170	3.15	82.44	95	5999.73	583.38	-435.82	1230.76	0.43	-0.39
64	27-Aug	20:11	6339	74	6265	2.65	85.98	95	6094.61	583.47	-435.32	1235.54	0.56	-0.53
65	27-Aug	20:11	6434	74	6360	1.48	74.22	95	6189.54	583.40	-434.84	1238.91	1.30	-1.23
66	27-Aug	20:11	6529	74	6455	1.07	64.33	95	6284.52	582.93	-434.12	1240.89	0.49	-0.43
67	27-Aug	20:11	6623	74	6549	0.38	43.70	94	6378.51	582.46	-433.51	1241.90	0.77	-0.73
68	27-Aug	20:11	6718	74	6644	0.30	344.87	95	6473.51	582.01	-433.05	1242.05	0.36	-0.08
69	27-Aug	20:11	6812	74	6738	0.34	276.21	94	6567.51	581.70	-432.78	1241.71	0.39	0.04
70	27-Aug	20:11	6907	74	6833	0.88	268.84	95	6662.50	581.56	-432.76	1240.70	0.57	0.57
71	27-Aug	20:11	7003	74	6929	1.19	283.50	96	6758.49	581.14	-432.54	1238.99	0.42	0.32
72	27-Aug	20:11	7098	74	7024	1.20	278.11	95	6853.47	580.53	-432.17	1237.05	0.12	0.01

SURVEY DATA

No.	Date	Time	M. Depth	Bit to DU	SD	INC	AZM	C/L	TVD	VS	N/S	E/W	DLS	B/D.
73	27-Aug	20:11	7192	74	7118	0.93	275.66	94	6947.45	580.11	-431.96	1235.31	0.29	-0.29
74	27-Aug	20:11	7286	74	7212	0.73	261.26	94	7041.44	579.96	-431.98	1233.96	0.31	-0.21
75	27-Aug	20:11	7381	74	7307	0.52	278.58	95	7136.43	579.86	-432.00	1232.94	0.29	-0.22
76	27-Aug	20:11	7475	74	7401	0.95	305.54	94	7230.43	579.49	-431.73	1231.22	0.25	-0.07
77	27-Aug	20:11	7570	74	7496	0.97	297.21	95	7325.42	578.79	-431.14	1231.20	0.56	-0.55
78	27-Aug	20:11	7665	74	7591	1.67	294.90	95	7420.40	577.60	-430.19	1229.23	0.74	-0.74
79	27-Aug	20:11	7760	74	7688	2.00	290.43	95	7515.35	576.11	-429.03	1226.42	0.38	-0.35
80	27-Aug	20:11	7856	74	7782	2.00	282.90	96	7611.29	574.76	-428.07	1223.21	0.27	0.00
81	27-Aug	20:11	7951	74	7877	1.91	283.29	95	7706.24	573.65	-427.34	1220.06	0.10	-0.12
82	27-Aug	20:11	8046	74	7972	1.80	287.96	95	7801.19	572.47	-426.51	1217.10	0.20	-0.19
83	27-Aug	20:11	8141	74	8067	1.80	285.87	95	7886.14	571.26	-425.64	1214.24	0.07	-0.50
84	27-Aug	20:11	8236	74	8162	1.29	285.11	95	7991.10	570.27	-424.96	1211.78	0.54	-0.54
85	27-Aug	20:11	8330	74	8256	1.33	279.26	94	8085.08	569.57	-424.51	1209.68	0.15	0.04
86	27-Aug	20:11	8424	74	8350	1.33	279.70	94	8179.05	568.95	-424.15	1207.53	0.01	0.00
87	27-Aug	20:11	8519	74	8445	1.63	301.93	95	8274.02	567.78	-423.25	1205.29	0.68	0.32
88	27-Aug	20:11	8614	74	8540	1.70	306.62	95	8368.98	565.96	-421.69	1203.01	0.16	0.07
89	27-Aug	20:11	8709	74	8635	1.92	307.09	95	8463.94	563.87	-419.89	1200.61	0.23	0.23
90	27-Aug	20:11	8804	74	8730	1.82	312.22	95	8558.88	561.62	-417.92	1198.23	0.21	-0.11
91	27-Aug	20:11	8900	74	8826	1.74	313.16	96	8654.84	559.35	-415.90	1196.03	0.09	-0.08
92	27-Aug	20:11	8994	74	8920	1.47	312.47	94	8748.80	557.34	-414.11	1194.10	0.29	-0.29
93	27-Aug	20:11	9089	74	9015	1.51	308.30	95	8843.77	555.52	-414.51	1192.22	0.12	0.04
94	27-Aug	20:11	9184	74	9110	1.34	304.97	95	8938.74	553.88	-411.09	1190.33	0.20	-0.18
95	27-Aug	20:11	9278	74	9204	1.40	299.46	94	9032.71	552.47	-409.90	1188.43	0.15	0.06
96	27-Aug	20:11	9373	74	9299	1.48	292.14	95	9127.68	551.18	-408.87	1186.28	0.21	0.08
97	27-Aug	20:11	9453	74	9361	1.24	291.21	(162)	9219.64	549.33	-406.32	1183.71	0.15	-0.15
98	27-Aug	20:14	9552	59	9593	1.46	291.33	(132)	9421.60	547.85	-406.32	1179.81	0.17	0.17
99	8-Nov	21:17	9777	54	9723	6.87	191.34	(130)	9551.29	554.45	-413.35	1176.74	5.59	4.16
100	8-Nov	21:41	9871	54	9817	6.71	192.64	94	9644.63	554.96	-424.22	1174.43	0.24	-0.17
101	9-Nov	0:44	9966	54	9912	12.89	196.03	95	9738.20	579.95	-439.83	1170.29	6.53	6.51
102	9-Nov	4:35	10061	54	10007	23.44	190.91	95	9828.34	607.75	-468.65	1165.76	11.22	11.11
103	9-Nov	21:11	10156	54	10102	32.43	181.07	95	9912.23	651.06	-512.79	1159.70	10.61	9.46
104	9-Nov	23:55	10251	54	10197	38.23	179.27	95	9999.70	705.54	-567.70	1159.60	6.20	6.11
105	10-Nov	2:50	10346	54	10292	45.37	178.48	95	10060.48	768.48	-630.96	1160.87	7.54	7.52
106	10-Nov	5:43	10442	54	10388	53.63	177.43	96	10122.77	841.15	-703.85	1163.52	8.64	8.60
107	10-Nov	9:12	10536	54	10482	60.29	176.88	94	10173.98	919.69	-782.51	1167.44	7.10	7.09
108	10-Nov	12:14	10631	54	10572	64.55	181.28	95	10217.99	1003.36	-866.65	1168.23	6.08	4.48
109	10-Nov	14:38	10726	54	10672	79.50	184.39	95	10247.22	1092.10	-956.63	1164.17	16.04	15.74
110	10-Nov	17:18	10821	54	10767	87.96	182.97	95	10257.59	1184.80	-1050.78	1158.12	9.03	8.91
111	10-Nov	19:41	10915	54	10861	90.98	182.63	94	10258.46	1277.40	-1144.65	1153.53	3.23	3.21
112	10-Nov	22:31	11010	54	10956	92.12	180.39	95	10255.89	1371.30	-1239.58	1151.03	2.64	1.20
113	11-Nov	0:28	11105	54	11051	90.13	178.61	95	10254.03	1465.66	-1334.55	1151.86	2.81	-2.09
114	11-Nov	2:34	11199	54	11145	88.56	177.15	94	10255.10	1559.30	-1428.47	1153.34	2.28	-1.67
115	11-Nov	4:35	11293	54	11239	88.68	178.37	94	10259.37	1652.94	-1522.37	1159.01	1.30	0.13
116	11-Nov	6:28	11386	54	11332	88.11	178.36	93	10259.97	1745.49	-1615.29	1161.66	0.61	-0.61
117	11-Nov	9:12	11478	54	11424	87.59	178.34	92	10263.42	1837.02	-1707.19	1164.31	0.57	-0.57
118	11-Nov	12:20	11571	54	11517	87.13	178.12	93	10267.70	1929.53	-1800.05	1167.18	0.55	-0.49
119	12-Nov	12:03	11685	53	11632	85.73	177.19	(115)	10274.86	2043.92	-1914.72	1171.87	1.46	-1.22
120	12-Nov	13:37	11778	53	11725	86.96	177.40	93	10280.79	2136.48	-2007.42	1176.50	1.33	1.32
121	12-Nov	14:51	11870	53	11817	87.59	176.83	92	10285.17	2228.15	-2099.18	1181.36	0.74	0.68
122	12-Nov	15:52	11963	53	11910	87.35	176.12	93	10289.27	2320.88	-2191.92	1187.07	0.81	-0.26
123	12-Nov	17:17	12056	53	12003	86.95	175.96	93	10293.90	2413.63	-2284.58	1193.09	0.66	-0.43
124	12-Nov	18:40	12148	53	12095	88.58	175.96	92	10297.48	2505.43	-2376.28	1199.56	1.77	1.77
125	12-Nov	19:32	12241	53	12188	88.45	174.75	93	10299.89	2598.32	-2468.94	1207.46	1.27	-0.14
126	12-Nov	20:53	12336	53	12283	87.39	174.35	95	10302.89	2693.24	-2563.46	1216.53	0.79	-0.55
127	12-Nov	22:10	12431	53	12378	88.13	175.32	95	10306.16	2788.13	-2658.01	1225.16	1.15	0.21
128	13-Nov	0:02	12526	53	12473	88.39	177.81	95	10309.05	2882.89	-2752.79	1230.85	2.63	0.27
129	13-Nov	1:17	12621	53	12568	87.65	177.82	95	10312.33	2977.51	-2847.65	1234.72	3.19	-0.78
130	13-Nov	2:30	12716	53	12663	87.78	177.80	95	10316.12	3072.15	-2942.48	1239.00	0.77	0.14
131	13-Nov	3:38	12810	53	12757	88.59	178.65	94	10319.09	3165.74	-3036.37	1242.32	1.67	0.86
132	13-Nov	4:57	12904	53	12851	90.07	179.53	94	10320.19	3259.19	-3130.35	1243.82	1.83	1.57
133	13-Nov	6:09	12999	53	12946	89.38	177.44	95	10320.65	3353.67	-3225.33	1245.50	1.36	-0.73
134	13-Nov	7:19	13094	53	13041	89.37	177.69	95	10321.68	3448.28	-3320.27	1248.71	0.79	-0.01
135	13-Nov	7:24	13189	53	13136	88.15	176.54	95	10322.33	3543.01	-3415.13	1253.49	1.76	-1.28
136	13-Nov	10:24	13284	53	13231	92.35	178.29	95	10322.33	3637.69	-3510.01	1257.69	4.83	4.42
137	13-Nov	11:31	13379	53	13326	87.98	175.49	95	10323.05	3732.43	-3604.84	1262.76	5.52	-4.60
138	13-Nov	12:34	13474	53	13421	90.27	177.47	95	10324.50	3827.22	-3699.64	1268.59	3.19	2.41
139	13-Nov	13:40	13569	53	13516	89.83	176.80	95	10324.62	3921.97	-3794.52	1273.25	0.76	-0.46
140	13-Nov	14:50	13663	53	13610	92.65	180.50	94	10322.35	4015.45	-3888.45	1276.39	4.89	3.04
141	13-Nov	15:46	13758	53	13705	87.95	177.86	95	10321.82	4109.85	-3983.40	1276.75	5.71	-4.99
142	13-Nov	16:35	13852	53	13799	90.35	177.77	94	10323.22	4203.50	-4077.32	1280.33	2.55	2.55
143	13-Nov	17:37	13947	53	13894	89.57	175.07	95	10323.28	4302.94	-4172.23	1284.32	0.80	-0.82
144	13-Nov	9:02	14042	53	13989	86.05	175.07	95	10326.91	4392.94	-4266.94	1289.53	4.45	-3.71
145	15-Nov	13:10	14137	53	14084	88.82	175.32	95	10331.16	4487.75	-4361.51	1288.31	2.95	2.92
146	15-Nov	19:02	14232	53	14179	89.41	175.05	95	10334.65	4582.66	-4456.18	1304.53	1.11	-1.07
147	15-Nov	21:29	14327	53	14274	88.39	174.79	95	10334.46	4677.59	-4550.79	1314.53	1.11	-1.07
148	16-Nov	0:12	14422	53	14369	90.53	179.61	95	10335.55	4772.29	-4645.64	1319.17	5.55	2.25
149	16-Nov	3:26	14518	53	14465	91.20	181.07	96	10333.90	4867.48	-4741.62	1318.60	1.67	0.70
150	16-Nov	5:19	14613	53	14560	92.03	184.06	95	10331.22	4961.10	-4836.48	1314.35	3.27	0.87
151	16-Nov	9:48	14708	53	14655	90.44	185.20	95	10329.18	5054.11	-4931.14	1297.68	2.66	-1.67
152	16-Nov	13:09	14803	53	14750	88.48	186.48	95	10330.07	5146.71	-5025.64	1287.02	2.46	-2.06
153	18-Nov	5:40	14898	53	14845	92.03	185.82	95	10329.65	5239.19	-5120.07	1286.84	3.80	3.74
154	18-Nov	8:07	14993	53	14940	92.44	18							

SURVEY DATA														
No.	Date	Time	M. Depth	Bit to DU	SD	INC	AZM	C.L	TVD	VS	N/S	E/W	D/S	8/D.
159	19-Nov	6:10	15466	53	15413	93.50	181.29	94	10298.46	5797.89	-5866.38	1259.65	2.38	-1.48
160	19-Nov	9:57	15561	53	15508	92.25	177.49	95	10293.70	5892.16	-5781.23	1260.66	4.21	-1.32
161	19-Nov	14:41	15656	53	15603	91.58	176.41	95	10290.52	5866.87	-5876.05	1265.72	1.34	-0.71
162	21-Nov	1:03	15751	53	15698	92.86	176.07	95	10286.84	6081.59	-5970.82	1271.12	1.52	1.31
163	21-Nov	4:07	15846	53	15793	90.59	177.03	95	10283.98	6176.30	-6065.64	1276.00	2.39	-2.39
164	21-Nov	6:40	15941	53	15888	92.85	175.42	95	10281.13	6270.99	-6160.48	1280.60	2.41	2.38
165	21-Nov	10:04	16036	53	15983	91.41	173.47	95	10277.67	6365.75	-6255.22	1286.57	2.64	-1.52
166	21-Nov	12:46	16130	53	16077	91.36	175.13	94	10275.50	6454.51	-6348.87	1291.35	0.26	-0.05
167	21-Nov	15:14	16225	53	16172	92.05	175.68	95	10272.50	6545.51	-6443.52	1301.96	0.93	0.73
168	21-Nov	17:19	16319	53	16266	92.36	176.00	94	10268.88	6648.33	-6537.21	1308.77	0.47	0.33
169	21-Nov	22:50	16415	53	16362	92.23	176.15	96	10265.04	6744.11	-6632.90	1315.34	0.21	-0.14
170	21-Nov	22:50	16509	53	16456	92.90	176.41	94	10260.83	6837.85	-6726.61	1321.43	0.76	0.71
171	22-Nov	2:12	16605	53	16552	94.74	177.99	96	10254.44	6933.37	-6822.28	1326.11	2.52	1.92
172	22-Nov	6:41	16694	53	16646	93.33	179.12	94	10247.82	7026.69	-6916.91	1328.47	1.92	-1.50
173	22-Nov	9:41	16794	53	16741	91.65	179.13	95	10243.70	7121.05	-7010.90	1329.92	1.77	-1.77
174	22-Nov	14:52	16889	53	16836	90.58	179.69	95	10241.27	7215.41	-7105.87	1330.80	0.71	-0.39
175	24-Nov	3:07	16984	53	16931	90.66	179.38	95	10238.78	7304.09	-7205.85	1331.37	0.79	-0.79
176	24-Nov	5:45	17079	53	17026	90.66	179.58	95	10236.78	7404.09	-7295.85	1331.92	0.73	0.14
177	24-Nov	9:01	17174	53	17121	89.87	178.48	95	10233.38	7498.55	-7390.83	1333.53	1.43	-0.83
178	24-Nov	12:09	17269	53	17216	88.88	177.82	95	10230.34	7593.15	-7485.77	1336.60	1.25	-1.04
179	24-Nov	14:38	17364	53	17311	88.62	177.84	95	10241.45	7687.79	-7580.68	1340.19	0.27	-0.27
180	24-Nov	19:47	17458	53	17405	89.78	177.64	94	10247.16	7781.45	-7674.60	1343.90	1.23	1.23
181	24-Nov	21:53	17553	53	17500	90.70	178.83	95	10242.36	7876.04	-7769.55	1346.82	1.58	0.97
182	25-Nov	0:53	17648	53	17595	92.19	180.02	95	10239.92	7970.41	-7864.51	1347.78	2.01	1.57
183	25-Nov	3:25	17743	53	17690	91.71	179.21	95	10236.74	8064.66	-7959.46	1348.00	0.60	-0.51
184	25-Nov	6:41	17838	53	17785	90.19	178.33	95	10235.16	8159.10	-8054.43	1349.46	2.03	-1.60
185	25-Nov	10:03	17933	53	17880	92.73	179.44	95	10233.74	8253.53	-8149.37	1351.14	2.84	2.67
186	25-Nov	15:24	18027	53	17974	91.72	179.45	95	10229.09	8346.86	-8243.30	1352.05	1.07	-1.07
187	25-Nov	17:51	18121	53	18068	90.79	178.48	94	10227.03	8440.31	-8337.26	1353.67	1.35	-0.99
188	25-Nov	20:46	18216	53	18163	89.53	178.48	95	10226.77	8534.86	-8432.22	1356.11	1.33	-1.33
189	26-Nov	0:27	18311	53	18258	92.46	179.88	95	10225.12	8629.27	-8527.19	1357.47	3.42	3.08
190	26-Nov	3:19	18406	53	18353	92.62	179.88	95	10220.91	8723.49	-8622.09	1357.66	0.17	0.17
191	26-Nov	6:30	18502	53	18449	94.09	180.49	96	10215.92	8818.56	-8717.93	1357.55	1.66	1.53
192	27-Nov	17:07	18596	53	18543	93.59	182.02	94	10208.99	8911.36	-8811.69	1355.30	1.71	-0.53
193	27-Nov	20:25	18692	53	18639	90.14	181.07	96	10205.87	9006.22	-8907.58	1357.71	3.73	-3.59
194	27-Nov	23:39	18786	53	18733	90.49	180.46	94	10205.35	9099.35	-9001.58	1351.46	0.75	0.37
195	28-Nov	2:12	18881	53	18828	90.65	180.94	95	10204.41	9193.48	-9096.57	1350.30	0.53	0.17
196	28-Nov	4:30	18977	53	18924	91.41	180.76	94	10201.28	9288.23	-9192.45	1347.00	3.32	2.53
197	28-Nov	7:10	19071	53	19018	91.41	180.76	94	10197.60	9381.02	-9286.31	1343.92	2.97	-1.78
198	28-Nov	9:45	19166	53	19113	92.09	181.04	95	10194.70	9475.06	-9381.26	1340.43	0.77	0.72
199	28-Nov	12:25	19262	53	19209	92.01	180.84	96	10191.27	9570.07	-9477.18	1340.66	0.22	-0.08
200	28-Nov	16:23	19357	53	19304	93.04	180.28	95	10187.08	9664.14	-9572.08	1339.83	1.23	1.08
201	28-Nov	19:38	19452	53	19399	91.41	179.88	95	10183.39	9756.34	-9667.01	1339.80	1.77	-1.72
202	28-Nov	21:43	19547	53	19494	91.12	179.75	95	10181.30	9852.63	-9761.98	1340.10	0.33	-0.31
203	29-Nov	1:02	19643	53	19590	90.63	178.65	96	10179.83	9948.05	-9857.96	1341.44	1.25	-0.51
204	29-Nov	4:25	19738	53	19685	90.27	180.54	95	10179.08	10042.41	-9952.95	1342.11	2.03	-0.38
205	29-Nov	8:31	19833	53	19780	89.95	179.28	95	10178.30	10136.71	-10047.95	1342.76	1.37	-0.34
206	29-Nov	11:19	19928	53	19875	89.33	179.33	95	10179.17	10231.06	-10142.95	1343.35	0.85	-0.41
207	29-Nov	13:27	20023	53	19970	89.33	179.68	95	10179.96	10325.40	-10237.94	1343.35	0.85	-0.24
208	29-Nov	16:27	20118	53	20065	92.18	179.68	95	10178.71	10419.76	-10337.92	1344.17	3.02	3.00
209	29-Nov	18:24	20213	53	20160	95.59	179.76	95	10172.27	10513.87	-10427.69	1344.63	3.59	3.59
210	30-Nov	0:51	20308	53	20255	93.60	178.96	95	10164.66	10607.97	-10527.37	1345.69	2.26	-2.09
211	30-Nov	7:06	20402	53	20349	92.75	179.93	94	10159.46	10701.22	-10616.22	1346.60	1.37	-0.90
212	30-Nov	12:57	20497	53	20444	95.03	182.60	95	10153.01	10795.00	-10710.96	1346.51	3.69	2.40
213	30-Nov	19:29	20591	53	20538	95.76	182.48	94	10144.17	10887.28	-10804.45	1340.37	0.79	0.78
214	30-Nov	23:46	20686	53	20633	95.59	181.91	95	10134.78	10980.58	-10989.92	1336.74	0.62	-0.18
215	1-Dec	5:38	20775	53	20722	96.01	182.70	89	10125.79	11067.95	-10987.39	1333.18	1.00	0.47
216	1-Dec	5:38			20775	96.01	182.70	53	10120.24	11119.90	-11040.04	1330.70	0.00	0.00
217														