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DRILTECH MWD SURVEY REPORT

BS OCD

NOV 14 2016



Company: EOG Resources, Inc.
Well: Hawk 26 Fed #709H
Location: Lea Co., NM
Rig: H&P 659

Job Number: DM-2016-039-EODT-NM
Vertical Section Plane: 181.39
Well API Number: 30-025-42402
Tie Into: VES

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Tie In	Surf	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	GYRO	102.00	0.18	35.53	102	102.00	-0.13	0.13	N 0.09	E 0.16	35.53	0.18	0.18	34.83
2	GYRO	195.00	0.45	48.00	93	195.00	-0.50	0.49	N 0.45	E 0.67	42.31	0.30	0.29	13.41
3	GYRO	288.00	0.49	48.25	93	288.00	-1.03	1.00	N 1.02	E 1.43	45.42	0.04	0.04	0.27
4	GYRO	382.00	0.42	51.65	94	381.99	-1.52	1.48	N 1.59	E 2.17	46.93	0.08	-0.07	3.62
5	GYRO	475.00	0.44	65.08	93	474.99	-1.90	1.85	N 2.18	E 2.86	49.72	0.11	0.02	14.44
6	GYRO	568.00	0.50	81.34	93	567.99	-2.13	2.06	N 2.90	E 3.56	54.68	0.16	0.06	17.48
7	GYRO	661.00	0.43	74.61	93	660.98	-2.30	2.21	N 3.64	E 4.26	58.73	0.10	-0.08	-7.24
8	GYRO	755.00	0.64	75.74	94	754.98	-2.54	2.43	N 4.49	E 5.11	61.54	0.22	0.22	1.20
9	GYRO	848.00	0.71	67.17	93	847.97	-2.92	2.79	N 5.52	E 6.19	63.24	0.13	0.08	-9.22
10	GYRO	941.00	0.74	60.41	93	940.97	-3.46	3.31	N 6.58	E 7.36	63.32	0.10	0.03	-7.27
11	GYRO	1035.00	0.66	59.94	94	1034.96	-4.06	3.88	N 7.57	E 8.51	62.89	0.09	-0.09	-0.50
12	GYRO	1127.00	0.58	68.70	92	1126.95	-4.52	4.31	N 8.47	E 9.50	63.01	0.13	-0.09	9.52
13	GYRO	1221.00	0.54	71.41	94	1220.95	-4.85	4.63	N 9.33	E 10.41	63.63	0.05	-0.04	2.88
14	GYRO	1315.00	0.57	57.88	94	1314.94	-5.26	5.02	N 10.15	E 11.32	63.70	0.14	0.03	-14.39
15	GYRO	1345.00	0.58	56.76	30	1344.94	-5.43	5.18	N 10.40	E 11.62	63.53	0.05	0.03	-3.73
16	SDI	1439.00	0.50	314.10	94	1438.94	-5.98	5.72	N 10.50	E 11.96	61.41	0.90	-0.09	273.77
17	SDI	1533.00	0.50	241.10	94	1532.94	-6.05	5.81	N 9.85	E 11.44	59.46	0.63	0.00	-77.66
18	SDI	1628.00	0.30	188.00	95	1627.93	-5.59	5.36	N 9.45	E 10.87	60.42	0.42	-0.21	-55.89
19	SDI	1722.00	0.30	334.40	94	1721.93	-5.57	5.34	N 9.31	E 10.73	60.15	0.61	0.00	155.74
20	SDI	1816.00	0.70	337.50	94	1815.93	-6.31	6.10	N 8.98	E 10.86	55.85	0.43	0.43	3.30
21	SDI	1910.00	0.20	222.20	94	1909.93	-6.71	6.50	N 8.65	E 10.83	53.07	0.86	-0.53	-122.66
22	SDI	2004.00	0.20	294.40	94	2003.93	-6.65	6.45	N 8.40	E 10.59	52.46	0.25	0.00	76.81
23	SDI	2097.00	0.30	232.70	93	2096.93	-6.56	6.37	N 8.05	E 10.27	51.66	0.29	0.11	-66.34
24	SDI	2191.00	0.10	181.40	94	2190.93	-6.33	6.14	N 7.86	E 9.97	51.99	0.27	-0.21	-54.57
25	SDI	2284.00	0.10	104.20	93	2283.93	-6.23	6.04	N 7.93	E 9.97	52.72	0.13	0.00	-83.01
26	SDI	2379.00	0.10	348.00	95	2378.93	-6.29	6.10	N 8.00	E 10.06	52.67	0.18	0.00	256.63
27	SDI	2473.00	0.30	272.40	94	2472.93	-6.37	6.19	N 7.73	E 9.90	51.33	0.31	0.21	-80.43
28	SDI	2567.00	0.20	166.50	94	2566.93	-6.22	6.04	N 7.53	E 9.65	51.25	0.43	-0.11	-112.66
29	SDI	2661.00	0.30	180.20	94	2660.92	-5.82	5.63	N 7.56	E 9.43	53.31	0.12	0.11	14.57
30	SDI	2755.00	0.30	160.70	94	2754.92	-5.34	5.16	N 7.64	E 9.22	56.00	0.11	0.00	-20.74
31	SDI	2848.00	0.10	25.50	93	2847.92	-5.19	5.00	N 7.76	E 9.23	57.20	0.41	-0.22	-145.38
32	SDI	2942.00	0.20	349.80	94	2941.92	-5.42	5.24	N 7.76	E 9.36	56.01	0.14	0.11	345.00
33	SDI	3035.00	0.40	344.40	93	3034.92	-5.89	5.71	N 7.65	E 9.54	53.27	0.22	0.22	-5.81
34	SDI	3129.00	0.30	314.90	94	3128.92	-6.37	6.20	N 7.39	E 9.64	50.00	0.22	-0.11	-31.38
35	SDI	3223.00	0.30	320.50	94	3222.92	-6.73	6.56	N 7.06	E 9.63	47.08	0.03	0.00	5.96
36	SDI	3318.00	0.40	305.60	95	3317.92	-7.10	6.95	N 6.63	E 9.60	43.66	0.14	0.11	-15.68
37	SDI	3412.00	0.20	307.20	94	3411.91	-7.38	7.24	N 6.23	E 9.55	40.73	0.21	-0.21	1.70
38	SDI	3505.00	0.20	114.60	93	3504.91	-7.42	7.27	N 6.25	E 9.58	40.69	0.43	0.00	-207.10
39	SDI	3598.00	0.30	75.50	93	3597.91	-7.42	7.26	N 6.63	E 9.83	42.41	0.21	0.11	-42.04
40	SDI	3693.00	0.80	23.00	95	3692.91	-8.10	7.93	N 7.13	E 10.67	41.96	0.70	0.53	-55.26
41	SDI	3786.00	0.90	354.00	93	3785.90	-9.43	9.26	N 7.31	E 11.79	38.29	0.47	0.11	355.91
42	SDI	3880.00	0.60	252.20	94	3879.89	-10.00	9.84	N 6.76	E 11.94	34.50	1.25	-0.32	-108.30
43	SDI	3974.00	1.30	218.00	94	3973.88	-8.98	8.85	N 5.64	E 10.49	32.50	0.93	0.74	-36.38
44	SDI	4067.00	1.50	158.10	93	4066.86	-7.02	6.89	N 5.44	E 8.78	38.31	1.51	0.22	-64.41
45	SDI	4161.00	2.00	114.60	94	4160.82	-5.24	5.06	N 7.39	E 8.96	55.59	1.47	0.53	-46.28
46	SDI	4255.00	2.10	64.70	94	4254.76	-5.37	5.12	N 10.44	E 11.63	63.89	1.84	0.11	-53.09
47	SDI	4349.00	2.40	21.30	94	4348.70	-7.99	7.69	N 12.71	E 14.86	58.84	1.79	0.32	-46.17
48	SDI	4444.00	1.80	353.50	95	4443.64	-11.34	11.02	N 13.27	E 17.25	50.28	1.23	-0.63	349.68
49	SDI	4538.00	1.10	357.00	94	4537.61	-13.70	13.39	N 13.05	E 18.70	44.27	0.75	-0.74	3.72
50	SDI	4632.00	0.90	331.30	94	4631.59	-15.24	14.94	N 12.65	E 19.58	40.26	0.52	-0.21	-27.34
51	SDI	4727.00	1.00	257.70	95	4726.58	-15.69	15.42	N 11.48	E 19.22	36.68	1.20	0.11	-77.47
52	SDI	4821.00	1.00	168.30	94	4820.57	-14.70	14.44	N 10.85	E 18.06	36.92	1.50	0.00	-95.11
53	SDI	4914.00	1.50	139.50	93	4913.55	-13.00	12.72	N 11.80	E 17.35	42.86	0.85	0.54	-30.97
54	SDI	5008.00	2.40	110.50	94	5007.50	-11.44	11.09	N 14.45	E 18.21	52.48	1.39	0.96	-30.85
55	SDI	5102.00	1.90	76.60	94	5101.44	-11.20	10.77	N 17.81	E 20.81	58.84	1.43	-0.53	-36.06
56	SDI	5196.00	2.00	44.70	94	5195.38	-12.79	12.29	N 20.47	E 23.88	59.02	1.14	0.11	-33.94
57	SDI	5289.00	2.00	5.70	93	5288.33	-15.59	15.06	N 21.78	E 26.48	55.33	1.44	0.00	-41.94
58	SDI	5383.00	2.60	320.70	94	5382.26	-18.84	18.34	N 20.59	E 27.58	48.30	1.96	0.64	335.11
59	SDI	5477.00	2.50	288.80	94	5476.17	-21.07	20.65	N 17.30	E 26.94	39.95	1.49	-0.11	-33.94
60	SDI	5571.00	2.00	245.60	94	5570.11	-20.97	20.64	N 13.86	E 24.86	33.89	1.83	-0.53	-45.96
61	SDI	5666.00	1.90	202.80	95	5665.06	-18.78	18.50	N 11.74	E 21.91	32.41	1.50	-0.11	-45.05

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Vertical Section Plane: 181.39
Well API Number: 30-025-42402
Tie Into: VES

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
62	SDI	5760.00	2.00	155.80	94	5759.01	-15.85	15.57 N	11.81 E	19.54	37.19	1.66	0.11	-50.00
63	SDI	5854.00	2.30	112.00	94	5852.95	-13.71	13.37 N	14.23 E	19.53	46.80	1.73	0.32	-46.60
64	SDI	5949.00	2.20	66.00	95	5947.88	-13.82	13.39 N	17.67 E	22.17	52.84	1.85	-0.11	-48.42
65	SDI	6043.00	2.00	30.40	94	6041.82	-16.03	15.54 N	20.15 E	25.44	52.35	1.38	-0.21	-37.87
66	SDI	6137.00	2.10	354.20	94	6135.77	-19.17	18.67 N	20.80 E	27.95	48.09	1.36	0.11	344.47
67	SDI	6232.00	1.90	307.80	95	6230.72	-21.83	21.37 N	19.38 E	28.85	42.21	1.67	-0.21	-48.84
68	SDI	6325.00	1.90	281.10	93	6323.67	-23.01	22.61 N	16.65 E	28.08	36.37	0.94	0.00	-28.71
69	SDI	6419.00	2.10	231.80	94	6417.62	-22.17	21.84 N	13.77 E	25.82	32.22	1.78	0.21	-52.45
70	SDI	6513.00	1.90	183.80	94	6511.56	-19.52	19.22 N	12.31 E	22.83	32.64	1.74	-0.21	-51.06
71	SDI	6606.00	2.30	139.90	93	6604.51	-16.58	16.26 N	13.41 E	21.08	39.52	1.73	0.43	-47.20
72	SDI	6700.00	3.10	113.20	94	6698.41	-14.22	13.81 N	16.96 E	21.88	50.84	1.56	0.85	-28.40
73	SDI	6793.00	2.90	74.70	93	6791.29	-13.96	13.44 N	21.54 E	25.39	58.03	2.14	-0.22	-41.40
74	SDI	6887.00	2.30	38.30	94	6885.20	-16.15	15.55 N	25.01 E	29.45	58.12	1.83	-0.64	-38.72
75	SDI	6980.00	2.60	2.00	93	6978.12	-19.76	19.12 N	26.24 E	32.47	53.91	1.67	0.32	-39.03
76	SDI	7074.00	2.90	341.70	94	7072.01	-24.13	23.51 N	25.56 E	34.73	47.39	1.08	0.32	361.38
77	SDI	7168.00	2.10	298.10	94	7165.93	-27.14	26.58 N	23.30 E	35.35	41.23	2.13	-0.85	-46.38
78	SDI	7261.00	2.00	251.60	93	7258.88	-27.36	26.87 N	20.25 E	33.65	37.01	1.74	-0.11	-50.00
79	SDI	7354.00	1.50	207.20	93	7351.84	-25.71	25.28 N	18.16 E	31.12	35.69	1.51	-0.54	-47.74
80	SDI	7448.00	1.40	146.80	94	7445.81	-23.66	23.22 N	18.22 E	29.52	38.12	1.55	-0.11	-64.26
81	SDI	7542.00	1.50	95.30	94	7539.78	-22.63	22.15 N	20.08 E	29.89	42.19	1.34	0.11	-54.79
82	SDI	7635.00	0.80	36.90	93	7632.77	-23.07	22.55 N	21.68 E	31.28	43.87	1.37	-0.75	-62.80
83	SDI	7729.00	0.50	342.10	94	7726.76	-23.99	23.47 N	21.95 E	32.13	43.08	0.70	-0.32	324.68
84	SDI	7822.00	0.50	295.50	93	7819.76	-24.54	24.03 N	21.46 E	32.22	41.76	0.43	0.00	-50.11
85	SDI	7915.00	0.30	198.80	93	7912.76	-24.48	23.97 N	21.01 E	31.88	41.23	0.66	-0.22	-103.98
86	SDI	8009.00	1.10	55.00	94	8006.75	-24.78	24.26 N	21.67 E	32.53	41.78	1.44	0.85	-152.98
87	SDI	8103.00	1.00	17.60	94	8100.74	-26.10	25.56 N	22.66 E	34.16	41.56	0.72	-0.11	-39.79
88	SDI	8196.00	1.10	284.40	93	8193.73	-27.08	26.55 N	22.04 E	34.51	39.69	1.64	0.11	286.88
89	SDI	8290.00	0.60	245.20	94	8287.72	-27.07	26.57 N	20.72 E	33.70	37.95	0.79	-0.53	-41.70
90	SDI	8383.00	0.30	129.20	93	8380.72	-26.70	26.21 N	20.47 E	33.26	37.98	0.84	-0.32	-124.73
91	SDI	8477.00	0.30	23.00	94	8474.72	-26.78	26.28 N	20.75 E	33.49	38.29	0.51	0.00	-112.98
92	SDI	8571.00	1.40	323.30	94	8568.70	-27.91	27.43 N	20.16 E	34.05	36.32	1.36	1.17	319.47
93	SDI	8664.00	1.20	265.60	93	8661.68	-28.71	28.27 N	18.51 E	33.79	33.22	1.36	-0.22	-62.04
94	SDI	8758.00	0.80	278.00	94	8755.67	-28.69	28.28 N	16.88 E	32.94	30.83	0.48	-0.43	13.19
95	SDI	8945.00	0.60	243.00	187	8942.66	-28.37	28.02 N	14.72 E	31.65	27.71	0.25	-0.11	-18.72
96	SDI	9066.00	0.30	185.50	121	9063.65	-27.75	27.42 N	14.12 E	30.84	27.25	0.42	-0.25	-47.52
97	SDI	9159.00	0.20	108.80	93	9156.65	-27.46	27.12 N	14.25 E	30.64	27.72	0.34	-0.11	-82.47
98	SDI	9252.00	0.30	344.50	93	9249.65	-27.65	27.31 N	14.34 E	30.84	27.71	0.48	0.11	253.44
99	SDI	9440.00	0.40	275.50	188	9437.65	-28.16	27.84 N	13.56 E	30.97	25.96	0.22	0.05	-36.70
100	SDI	9533.00	0.40	221.30	93	9530.65	-27.94	27.63 N	13.02 E	30.54	25.23	0.39	0.00	-58.28
101	SDI	9627.00	0.30	199.40	94	9624.65	-27.45	27.15 N	12.72 E	29.98	25.10	0.18	-0.11	-23.30
102	SDI	9721.00	0.30	210.60	94	9718.64	-27.00	26.71 N	12.51 E	29.49	25.10	0.06	0.00	11.91
103	SDI	9815.00	0.60	202.60	94	9812.64	-26.33	26.04 N	12.20 E	28.76	25.10	0.33	0.32	-8.51
104	SDI	9908.00	0.60	208.20	93	9905.64	-25.44	25.16 N	11.78 E	27.78	25.09	0.06	0.00	6.02
105	SDI	10001.00	0.70	211.70	93	9998.63	-24.52	24.25 N	11.25 E	26.73	24.89	0.12	0.11	3.76
106	SDI	10095.00	0.80	216.10	94	10092.62	-23.48	23.23 N	10.56 E	25.52	24.45	0.12	0.11	4.68
107	SDI	10187.00	1.00	190.90	92	10184.61	-22.16	21.92 N	10.03 E	24.11	24.59	0.48	0.22	-27.39
108	SDI	10280.00	0.30	201.50	93	10277.60	-21.13	20.90 N	9.79 E	23.08	25.10	0.76	-0.75	11.40
109	SDI	10374.00	0.40	214.50	94	10371.60	-20.63	20.40 N	9.52 E	22.51	25.00	0.14	0.11	13.83
110	SDI	10467.00	0.50	195.30	93	10464.60	-19.96	19.74 N	9.22 E	21.79	25.04	0.19	0.11	-20.65
111	SDI	10653.00	0.50	172.00	186	10650.59	-18.37	18.16 N	9.12 E	20.32	26.68	0.11	0.00	-12.53
112	SDI	10746.00	0.60	169.60	93	10743.59	-17.50	17.28 N	9.27 E	19.60	28.21	0.11	0.11	-2.58
113	SDI	10839.00	0.80	148.90	93	10836.58	-16.47	16.24 N	9.69 E	18.91	30.83	0.34	0.22	-22.26
114	SDI	10933.00	0.40	127.40	94	10930.58	-15.72	15.48 N	10.29 E	18.59	33.62	0.48	-0.43	-22.87
115	SDI	11026.00	0.10	24.60	93	11023.58	-15.61	15.36 N	10.58 E	18.65	34.57	0.47	-0.32	-110.54
116	SDI	11095.00	0.30	322.40	69	11092.58	-15.80	15.55 N	10.50 E	18.76	34.02	0.39	0.29	431.59
117	MWD	11277.00	0.35	214.48	182	11274.57	-15.71	15.47 N	9.89 E	18.36	32.59	0.29	0.03	-59.30
118	MWD	11371.00	2.64	240.85	94	11368.54	-14.37	14.18 N	7.84 E	16.20	28.93	2.48	2.44	28.05
119	MWD	11464.00	4.75	242.60	93	11461.34	-11.42	11.37 N	2.55 E	11.65	12.64	2.27	2.27	1.88
120	MWD	11558.00	6.69	252.45	94	11554.87	-7.77	7.92 N	6.13 W	10.02	322.28	2.31	2.06	10.48
121	MWD	11650.00	6.16	255.79	92	11646.29	-4.71	5.10 N	16.02 W	16.81	287.64	0.70	-0.58	3.63
122	MWD	11743.00	5.63	255.96	93	11738.80	-2.15	2.76 N	25.29 W	25.44	276.24	0.57	-0.57	0.18
123	MWD	11837.00	4.75	258.95	94	11832.41	-0.09	0.90 N	33.58 W	33.59	271.54	0.98	-0.94	3.18
124	MWD	11931.00	3.70	262.99	94	11926.15	1.20	0.22 S	40.41 W	40.41	269.69	1.16	-1.12	4.30
125	MWD	11984.00	3.52	263.17	53	11979.05	1.68	0.62 S	43.72 W	43.73	269.19	0.34	-0.34	0.34
126	MWD	12024.00	2.99	267.21	40	12018.98	1.93	0.82 S	45.98 W	45.99	268.98	1.44	-1.33	10.10

Job Number:	DM-2016-039-EODT-NM
Vertical Section Plane:	181.39
Well API Number:	30-025-42402
Tie Into:	VES

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
127	MWD	12071.00	6.69	231.35	47	12065.82	3.78	2.59 S	49.35 W	49.42	267.00	9.81	7.87	-76.30
128	MWD	12116.00	14.25	223.80	45	12110.04	9.57	8.23 S	55.24 W	55.85	261.53	17.04	16.80	-16.78
129	MWD	12163.00	20.76	224.85	47	12154.84	19.89	18.32 S	65.13 W	67.65	254.29	13.87	13.85	2.23
130	MWD	12209.00	22.70	223.27	46	12197.57	32.42	30.56 S	76.96 W	82.81	248.34	4.40	4.22	-3.43
131	MWD	12256.00	24.46	219.23	47	12240.64	46.86	44.71 S	89.33 W	99.89	243.41	5.08	3.74	-8.60
132	MWD	12302.00	29.91	205.34	46	12281.59	64.89	62.48 S	100.28 W	118.15	238.08	18.12	11.85	-30.20
133	MWD	12349.00	40.47	197.25	47	12319.97	90.36	87.72 S	109.85 W	140.58	231.39	24.52	22.47	-17.21
134	MWD	12396.00	44.34	193.91	47	12354.67	121.08	118.25 S	118.33 W	167.28	225.02	9.52	8.23	-7.11
135	MWD	12443.00	44.52	192.33	47	12388.23	153.30	150.29 S	125.80 W	195.99	219.93	2.38	0.38	-3.36
136	MWD	12489.00	45.40	191.98	46	12420.78	185.23	182.06 S	132.64 W	225.26	216.07	1.99	1.91	-0.76
137	MWD	12536.00	51.20	185.83	47	12452.05	219.98	216.70 S	137.98 W	256.90	212.49	15.73	12.34	-13.09
138	MWD	12582.00	58.94	182.84	46	12478.37	257.61	254.27 S	140.78 W	290.64	208.97	17.65	16.83	-6.50
139	MWD	12629.00	68.97	182.14	47	12498.98	299.78	296.41 S	142.60 W	328.93	205.69	21.38	21.34	-1.49
140	MWD	12676.00	78.65	183.89	47	12512.07	344.84	341.42 S	144.99 W	370.93	203.01	20.90	20.60	3.72
141	MWD	12723.00	79.53	183.54	47	12520.97	390.95	387.48 S	147.98 W	414.77	200.90	2.01	1.87	-0.74
142	MWD	12770.00	82.17	180.73	47	12528.44	437.34	433.84 S	149.71 W	458.94	199.04	8.15	5.62	-5.98
143	MWD	12863.00	83.75	179.67	93	12539.84	529.62	526.13 S	150.03 W	547.10	195.92	2.04	1.70	-1.14
144	MWD	12956.00	86.04	179.50	93	12548.12	622.19	618.75 S	149.35 W	636.52	193.57	2.47	2.46	-0.18
145	MWD	13049.00	89.74	180.38	93	12551.54	715.08	711.67 S	149.26 W	727.16	191.84	4.09	3.98	0.95
146	MWD	13142.00	93.43	180.20	93	12548.97	808.02	804.62 S	149.73 W	818.43	190.54	3.97	3.97	-0.19
147	MWD	13236.00	90.97	177.92	94	12545.36	901.86	898.53 S	148.19 W	910.66	189.37	3.57	-2.62	-2.43
148	MWD	13329.00	90.09	178.44	93	12544.50	994.70	991.47 S	145.23 W	1002.05	188.33	1.10	-0.95	0.56
149	MWD	13422.00	94.31	178.44	93	12540.93	1087.49	1084.35 S	142.70 W	1093.70	187.50	4.54	4.54	0.00
150	MWD	13514.00	92.90	179.15	92	12535.15	1179.21	1176.14 S	140.77 W	1184.54	186.83	1.72	-1.53	0.77
151	MWD	13608.00	89.38	181.08	94	12533.28	1273.15	1270.11 S	140.96 W	1277.90	186.33	4.27		