

ADVANTAGE Field Survey Listing



INTEQ

Operator RMR Operating, LLC **Fields** (Madera) **API No** 300234063300 **Location** S25 T26N R34E
Well Madera "25" Federal No. 2 H **Wellbore** Madera "25" Federal No. 2 H Orig Hole **Rig** Rig 6 **Job** 4RJHX29

Well Origin

Latitude	32.02 deg	Longitude	-103.42 deg
North Reference	Grid	Drill Depth Zero	
Vertical Datum is	Ground Level	Vertical Datum to DDZ	23.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	179.65 deg	Vertical Section Depth	0.00 ft
Grid Convergence	-0.48 deg	Magnetic Declination	7.32 deg
Total Correction	6.84 deg	TVD Calculation Method	Minimum Curvature
D-Row Calculation	Magcorr1	Local Magnetic Field	48243 nT
Local Magnetic Dip Angle	59.92 deg	Local Gravity Field	9.792 m/s^2

Tie In	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Temperature degF	CRS LEN ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	100.00	0.36	235.67	-0.18	-0.26	100.00	0.18		100.00	0.36	0.36	-124.33
	200.00	0.66	225.73	-0.76	-0.93	200.00	0.75		100.00	0.31	0.30	-9.94
	300.00	0.69	220.50	-1.62	-1.73	299.99	1.61		100.00	0.07	0.03	-5.23
	400.00	0.74	222.94	-2.55	-2.57	399.98	2.53		100.00	0.06	0.05	2.44
	500.00	0.76	232.24	-3.43	-3.53	499.97	3.40		100.00	0.12	0.02	9.30
	600.00	0.93	241.29	-4.22	-4.77	599.96	4.19		100.00	0.22	0.17	9.05
	700.00	1.19	243.10	-5.08	-6.40	699.94	5.04		100.00	0.26	0.26	1.81
	800.00	1.42	242.10	-6.13	-8.42	799.92	6.08		100.00	0.23	0.23	-1.00
	900.00	1.51	241.66	-7.34	-10.68	899.89	7.27		100.00	0.09	0.09	-0.44
	1000.00	1.51	239.13	-8.64	-12.97	999.85	8.56		100.00	0.07	0.00	-2.53
	1100.00	1.50	217.93	-10.35	-14.91	1099.82	10.25		100.00	0.55	-0.01	-21.20
	1200.00	1.50	207.31	-12.54	-16.31	1199.78	12.44		100.00	0.28	0.00	-10.62
	1300.00	1.49	205.86	-14.87	-17.48	1299.75	14.77		100.00	0.04	-0.01	-1.45
	1400.00	1.53	207.29	-17.23	-18.66	1399.71	17.12		100.00	0.05	0.04	1.43
	1500.00	1.48	211.67	-19.52	-19.95	1499.68	19.39		100.00	0.13	-0.05	4.38
	1535.00	1.68	218.55	-20.30	-20.50	1534.67	20.18		35.00	0.79	0.57	19.66
	1630.00	0.87	219.18	-21.95	-21.83	1629.64	21.82		95.00	0.85	-0.85	0.66
	1725.00	0.79	234.25	-22.89	-22.82	1724.63	22.75		95.00	0.24	-0.08	15.86
	1820.00	0.84	240.79	-23.61	-23.95	1819.62	23.47		95.00	0.11	0.05	6.88
	1915.00	0.70	217.65	-24.41	-24.92	1914.61	24.26		95.00	0.36	-0.15	-24.36
	2010.00	0.41	184.95	-25.21	-25.30	2009.61	25.06		95.00	0.44	-0.31	-34.42
	2105.00	0.04	99.43	-25.56	-25.30	2104.61	25.40		95.00	0.43	-0.39	-90.02
	2200.00	0.57	121.63	-25.81	-24.86	2199.61	25.66		95.00	0.56	0.56	23.37
	2295.00	0.68	104.81	-26.20	-23.91	2294.60	26.05		95.00	0.22	0.12	-17.71
	2390.00	0.44	105.28	-26.44	-23.02	2389.60	26.30		95.00	0.25	-0.25	0.49
	2486.00	0.57	49.24	-26.23	-22.30	2485.59	26.09		96.00	0.51	0.14	-58.37
	2581.00	0.36	97.77	-25.96	-21.65	2580.59	25.83		95.00	0.45	-0.22	51.08
	2676.00	0.35	62.34	-25.86	-21.09	2675.59	25.73		95.00	0.23	-0.01	-37.29
	2771.00	0.45	40.89	-25.45	-20.59	2770.59	25.32		95.00	0.19	0.11	-22.58
	2866.00	0.44	84.54	-25.13	-19.99	2865.58	25.01		95.00	0.35	-0.01	45.95
	2960.00	0.22	61.13	-25.01	-19.47	2959.58	24.89		94.00	0.27	-0.23	-24.90
	3056.00	0.10	129.20	-24.97	-19.24	3055.58	24.86		96.00	0.21	-0.12	70.91
	3151.00	0.16	315.57	-24.93	-19.27	3150.58	24.81		95.00	0.27	0.06	-182.77
	3246.00	0.17	83.57	-24.82	-19.22	3245.58	24.70		95.00	0.31	0.01	134.74
	3341.00	0.15	44.36	-24.72	-19.00	3340.58	24.60		95.00	0.11	-0.02	-41.27
	3436.00	0.43	39.30	-24.35	-18.68	3435.58	24.24		95.00	0.30	0.29	-5.33
	3531.00	0.50	59.82	-23.87	-18.10	3530.58	23.76		95.00	0.19	0.07	21.60
	3625.00	0.40	36.95	-23.40	-17.55	3624.57	23.29		94.00	0.22	-0.11	-24.33
	3720.00	0.28	347.03	-22.91	-17.40	3719.57	22.80		95.00	0.32	-0.13	-52.55
	3815.00	0.25	3.54	-22.47	-17.44	3814.57	22.37		95.00	0.09	-0.03	17.38
	3910.00	0.04	317.47	-22.24	-17.45	3909.57	22.14		95.00	0.24	-0.22	-48.49
	4005.00	0.17	76.47	-22.19	-17.34	4004.57	22.08		95.00	0.20	0.14	125.26
	4100.00	0.50	39.86	-21.83	-16.93	4099.57	21.73		95.00	0.40	0.35	-38.54
	4195.00	0.61	34.16	-21.10	-16.38	4194.57	21.00		95.00	0.13	0.12	-6.00
	4290.00	1.03	49.01	-20.12	-15.45	4289.56	20.02		95.00	0.49	0.44	15.63
	4385.00	0.83	37.40	-19.01	-14.39	4384.54	18.92		95.00	0.29	-0.21	-12.22
	4480.00	0.94	20.01	-17.73	-13.71	4479.53	17.65		95.00	0.30	0.12	-18.31
	4575.00	0.70	29.43	-16.50	-13.16	4574.52	16.42		95.00	0.29	-0.25	9.92
	4670.00	0.79	47.98	-15.55	-12.38	4669.51	15.48		95.00	0.27	0.09	19.53
	4765.00	0.67	76.79	-14.99	-11.36	4764.51	14.92		95.00	0.40	-0.13	30.33

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	4860.00	0.26	63.08	-14.76	-10.62	4859.50	14.70		95.00	0.44	-0.43	-14.43
	4955.00	0.46	90.44	-14.67	-10.05	4954.50	14.61		95.00	0.27	0.21	28.80
	5050.00	0.62	128.62	-14.99	-9.27	5049.50	14.93		95.00	0.40	0.17	40.19
	5145.00	0.70	110.37	-15.51	-8.32	5144.49	15.46		95.00	0.24	0.08	-19.21
	5240.00	0.35	86.65	-15.70	-7.49	5239.49	15.65		95.00	0.43	-0.37	-24.97
	5315.00	0.28	145.72	-15.84	-7.16	5314.49	15.79		75.00	0.42	-0.09	78.76
	5455.00	0.20	38.46	-15.93	-6.81	5454.49	15.89	104.1	140.00	0.28	-0.06	-76.61
	5550.00	0.28	7.01	-15.57	-6.68	5549.49	15.53	104.1	95.00	0.16	0.08	-33.11
	5645.00	0.28	46.59	-15.18	-6.48	5644.48	15.14	106.8	95.00	0.20	0.00	41.66
	5739.00	0.07	96.36	-15.03	-6.26	5738.48	14.99	109.5	94.00	0.26	-0.22	52.95
	5834.00	0.20	60.80	-14.95	-6.06	5833.48	14.92	112.2	95.00	0.16	0.14	-37.43
	5929.00	0.12	88.19	-14.87	-5.81	5928.48	14.83	112.2	95.00	0.11	-0.08	28.83
	6024.00	0.28	92.63	-14.88	-5.48	6023.48	14.84	112.2	95.00	0.17	0.17	4.67
	6119.00	0.27	105.10	-14.94	-5.03	6118.48	14.91	114.9	95.00	0.06	-0.01	13.13
	6214.00	0.43	98.92	-15.06	-4.46	6213.48	15.03	117.6	95.00	0.17	0.17	-6.51
	6309.00	0.47	103.55	-15.20	-3.73	6308.48	15.18	117.6	95.00	0.06	0.04	4.87
	6404.00	0.39	133.38	-15.52	-3.12	6403.47	15.50	117.6	95.00	0.25	-0.08	31.40
	6499.00	0.31	94.56	-15.76	-2.63	6498.47	15.74	120.3	95.00	0.26	-0.08	-40.86
	6594.00	0.22	127.13	-15.89	-2.23	6593.47	15.88	120.3	95.00	0.18	-0.09	34.28
	6689.00	0.30	88.30	-15.99	-1.83	6688.47	15.98	120.3	95.00	0.20	0.08	-40.87
	6784.00	0.33	104.42	-16.05	-1.32	6783.47	16.05	120.3	95.00	0.10	0.03	16.97
	6879.00	0.17	141.22	-16.23	-0.97	6878.47	16.23	123.0	95.00	0.23	-0.17	38.74
	6974.00	0.12	124.94	-16.40	-0.80	6973.47	16.39	123.0	95.00	0.07	-0.05	-17.14
	7069.00	0.22	141.61	-16.60	-0.61	7068.47	16.59	123.0	95.00	0.12	0.11	17.55
	7164.00	0.28	113.08	-16.83	-0.28	7163.47	16.83	123.0	95.00	0.14	0.06	-30.03
	7259.00	0.24	150.86	-17.10	0.03	7258.47	17.10	123.0	95.00	0.18	-0.04	39.77
	7355.00	0.19	189.03	-17.43	0.10	7354.47	17.43	123.0	96.00	0.15	-0.05	39.76
	7450.00	0.31	176.61	-17.84	0.09	7449.46	17.84	128.4	95.00	0.14	0.13	-13.07
	7544.00	0.26	173.49	-18.31	0.13	7543.46	18.31	128.4	94.00	0.06	-0.05	-3.32
	7639.00	0.54	177.95	-18.97	0.17	7638.46	18.97	128.4	95.00	0.30	0.29	4.69
	7734.00	0.59	181.95	-19.91	0.17	7733.46	19.91	128.4	95.00	0.07	0.05	4.21
	7829.00	0.69	177.77	-20.97	0.18	7828.45	20.97	131.1	95.00	0.12	0.11	-4.40
	7924.00	0.49	172.60	-21.94	0.25	7923.44	21.94	131.1	95.00	0.22	-0.21	-5.44
	8020.00	0.65	172.26	-22.89	0.38	8019.44	22.89	131.1	96.00	0.17	0.17	-0.35
	8114.00	0.70	154.83	-23.94	0.70	8113.43	23.94	131.1	94.00	0.22	0.05	-18.54
	8209.00	1.01	156.43	-25.23	1.28	8208.42	25.24	131.1	95.00	0.33	0.33	1.68
	8305.00	1.17	149.31	-26.85	2.12	8304.41	26.86	133.8	96.00	0.22	0.17	-7.42
	8399.00	1.17	147.99	-28.49	3.11	8398.39	28.50	133.8	94.00	0.03	0.00	-1.40
	8445.00	2.20	165.80	-29.74	3.58	8444.37	29.76	117.6	46.00	2.49	2.25	38.73
	8476.00	3.67	170.74	-31.30	3.89	8475.32	31.32	123.0	31.00	4.78	4.72	15.93
	8508.00	7.24	176.61	-34.32	4.17	8507.17	34.35	123.0	32.00	11.30	11.18	18.34
	8540.00	11.27	178.65	-39.46	4.36	8538.75	39.49	123.0	32.00	12.61	12.57	6.37
	8571.00	15.57	180.22	-46.65	4.42	8568.90	46.68	93.2	31.00	13.92	13.87	5.08
	8603.00	19.86	179.71	-56.39	4.43	8599.37	56.41	128.4	32.00	13.43	13.42	-1.60
	8634.00	23.50	178.22	-67.83	4.65	8628.18	67.86	128.4	31.00	11.88	11.75	-4.81
	8666.00	26.02	177.50	-81.22	5.15	8657.23	81.25	131.1	32.00	7.92	7.86	-2.26
	8698.00	28.55	177.15	-95.87	5.84	8685.67	95.91	131.1	32.00	7.92	7.91	-1.09
	8729.00	31.18	177.25	-111.29	6.59	8712.55	111.33	104.1	31.00	8.50	8.49	0.32
	8761.00	33.32	176.96	-128.34	7.46	8739.61	128.39	131.1	32.00	6.70	6.69	-0.90
	8793.00	35.16	175.85	-146.31	8.59	8766.07	146.36	131.1	32.00	6.06	5.74	-3.46
	8824.00	37.98	177.14	-164.75	9.71	8790.96	164.80	131.1	31.00	9.44	9.11	4.16
	8856.00	40.69	178.26	-185.01	10.52	8815.71	185.07	131.1	32.00	8.75	8.47	3.50
	8888.00	44.09	178.79	-206.57	11.07	8839.34	206.64	133.8	32.00	10.70	10.64	1.66
	8920.00	46.39	179.44	-229.29	11.42	8861.87	229.36	133.8	32.00	7.30	7.16	2.02
	8951.00	48.78	179.03	-252.18	11.73	8882.78	252.24	133.8	31.00	7.80	7.74	-1.32
	8983.00	51.52	179.82	-276.74	11.97	8903.28	276.81	133.8	32.00	8.76	8.55	2.47
	9014.00	54.15	180.86	-301.44	11.83	8922.01	301.51	133.8	31.00	8.88	8.46	3.35
	9046.00	57.71	181.61	-327.94	11.25	8939.93	328.00	133.8	32.00	11.32	11.15	2.36
	9078.00	61.66	181.13	-355.55	10.59	8956.08	355.61	133.8	32.00	12.41	12.34	-1.50
	9109.00	64.12	180.42	-383.14	10.22	8970.20	383.19	133.8	31.00	8.20	7.94	-2.31

ADVANTAGE Field Survey Listing

**BAKER
HUGHES**

INTEQ

Operator RMR Operating, LLC				Fields (Madera)		API No 300234063300		Location S25 T26N R34E				
Well	Madera "25" Federal No. 2 H			Wellbore	Madera "25" Federal No. 2 H Orig Hole			Rig	Rig 6	Job	4RJHX29	
Tie In	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Temperature degF	CRS LEN ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	9141.00	66.25	179.08	-412.18	10.35	8983.63	412.24	133.8	32.00	7.65	6.65	-4.16
	9173.00	69.39	179.43	-441.81	10.73	8995.71	441.86	133.8	32.00	9.84	9.79	1.09
	9204.00	73.31	179.90	-471.17	10.90	9005.62	471.23	136.5	31.00	12.75	12.66	1.51
	9234.00	77.32	180.17	-500.19	10.88	9013.22	500.24	123.0	30.00	13.40	13.37	0.88
	9266.00	79.96	180.01	-531.56	10.84	9019.53	531.61	117.6	32.00	8.25	8.23	-0.51
	9298.00	82.68	179.76	-563.19	10.90	9024.36	563.24	117.6	32.00	8.52	8.49	-0.75
	9329.00	85.18	179.35	-594.01	11.14	9027.64	594.07	117.6	31.00	8.19	8.09	-1.33
	9361.00	87.72	179.17	-625.94	11.55	9029.62	626.00	117.6	32.00	7.95	7.93	-0.58
	9393.00	89.48	179.31	-657.93	11.97	9030.40	657.99	120.3	32.00	5.51	5.49	0.46
	9424.00	90.52	178.83	-688.93	12.48	9030.40	688.99	120.3	31.00	3.72	3.38	-1.56
	9456.00	91.36	178.69	-720.91	13.17	9029.87	720.98	120.3	32.00	2.64	2.60	-0.43
	9488.00	92.03	179.15	-752.89	13.77	9028.93	752.96	120.3	32.00	2.55	2.12	1.42
	9519.00	92.90	178.85	-783.86	14.31	9027.59	783.93	117.6	31.00	2.94	2.78	-0.95
	9551.00	93.42	179.39	-815.81	14.80	9025.83	815.88	120.3	32.00	2.34	1.64	1.67
	9583.00	91.63	179.19	-847.77	15.20	9024.42	847.85	120.3	32.00	5.62	-5.59	-0.62
	9614.00	90.59	179.19	-878.76	15.64	9023.82	878.84	120.3	31.00	3.38	-3.38	-0.00
	9646.00	90.92	178.94	-910.76	16.16	9023.40	910.84	120.3	32.00	1.30	1.06	-0.76
	9678.00	91.82	178.68	-942.74	16.82	9022.63	942.82	120.3	32.00	2.91	2.79	-0.82
	9709.00	92.34	178.88	-973.71	17.48	9021.51	973.80	120.3	31.00	1.82	1.70	0.65
	9741.00	93.18	178.93	-1005.67	18.09	9019.96	1005.76	120.3	32.00	2.61	2.60	0.13
	9773.00	93.05	179.32	-1037.62	18.58	9018.23	1037.71	120.3	32.00	1.30	-0.39	1.24
	9804.00	93.48	179.59	-1068.57	18.87	9016.46	1068.66	120.3	31.00	1.63	1.39	0.86
	9836.00	92.28	179.71	-1100.52	19.07	9014.85	1100.62	117.6	32.00	3.77	-3.75	0.38
	9867.00	92.40	179.93	-1131.50	19.16	9013.59	1131.59	120.3	31.00	0.80	0.40	0.69
	9899.00	91.54	181.24	-1163.48	18.84	9012.48	1163.57	120.3	32.00	4.89	-2.69	4.09
	9931.00	91.79	181.12	-1195.46	18.18	9011.55	1195.55	120.3	32.00	0.84	0.77	-0.35
	9962.00	92.71	180.93	-1226.43	17.63	9010.34	1226.51	123.0	31.00	3.06	2.99	-0.63
	9994.00	92.13	180.90	-1258.39	17.11	9008.99	1258.48	123.0	32.00	1.83	-1.82	-0.08
	10026.00	92.16	180.90	-1290.37	16.61	9007.79	1290.45	128.4	32.00	0.09	0.08	-0.02
	10057.00	91.51	180.49	-1321.35	16.24	9006.80	1321.42	123.0	31.00	2.48	-2.09	-1.33
	10089.00	91.73	181.11	-1353.33	15.79	9005.89	1353.40	128.4	32.00	2.07	0.68	1.96
	10120.00	90.74	180.65	-1384.32	15.32	9005.23	1384.39	125.7	31.00	3.52	-3.18	-1.49
	10152.00	90.83	180.55	-1416.32	14.98	9004.79	1416.38	128.4	32.00	0.42	0.29	-0.31
	10184.00	90.06	180.57	-1448.31	14.67	9004.54	1448.38	128.4	32.00	2.41	-2.41	0.07
	10215.00	89.63	180.38	-1479.31	14.41	9004.62	1479.37	128.4	31.00	1.52	-1.39	-0.61
	10247.00	89.38	180.73	-1511.31	14.10	9004.90	1511.37	128.4	32.00	1.33	-0.77	1.09
	10279.00	90.25	180.43	-1543.31	13.78	9005.00	1543.36	131.1	32.00	2.85	2.70	-0.93
	10310.00	91.51	181.34	-1574.30	13.30	9004.52	1574.35	128.4	31.00	5.01	4.08	2.92
	10342.00	91.60	181.13	-1606.28	12.61	9003.65	1606.33	128.4	32.00	0.72	0.29	-0.66
	10374.00	90.92	181.03	-1638.27	12.01	9002.95	1638.31	131.1	32.00	2.14	-2.12	-0.31
	10405.00	89.45	180.99	-1669.26	11.46	9002.85	1669.30	128.4	31.00	4.76	-4.76	-0.12
	10437.00	89.78	180.75	-1701.26	10.98	9003.06	1701.29	131.1	32.00	1.28	1.03	-0.75
	10469.00	89.48	181.21	-1733.25	10.43	9003.27	1733.28	131.1	32.00	1.72	-0.94	1.44
	10501.00	90.18	180.79	-1765.25	9.87	9003.36	1765.27	128.4	32.00	2.55	2.19	-1.31
	10532.00	90.83	180.85	-1796.24	9.43	9003.09	1796.27	131.1	31.00	2.11	2.10	0.19
	10564.00	90.71	180.60	-1828.24	9.02	9002.66	1828.26	128.4	32.00	0.86	-0.38	-0.78
	10596.00	90.52	180.28	-1860.23	8.78	9002.32	1860.25	128.4	32.00	1.17	-0.58	-1.01
	10627.00	90.03	180.31	-1891.23	8.62	9002.17	1891.25	131.1	31.00	1.60	-1.59	0.12
	10659.00	89.01	179.52	-1923.23	8.66	9002.43	1923.25	128.4	32.00	4.02	-3.18	-2.47
	10690.00	89.32	179.78	-1954.23	8.85	9002.88	1954.24	131.1	31.00	1.28	0.99	0.81
	10722.00	88.37	179.86	-1986.22	8.95	9003.53	1986.24	131.1	32.00	3.00	-2.99	0.26
	10754.00	88.43	179.86	-2018.21	9.03	9004.42	2018.22	131.1	32.00	0.19	0.19	-0.01
	10785.00	89.38	179.93	-2049.20	9.09	9005.01	2049.22	133.8	31.00	3.09	3.08	0.24
	10817.00	90.31	180.00	-2081.20	9.11	9005.10	2081.22	131.1	32.00	2.90	2.89	0.22
	10849.00	91.27	179.98	-2113.20	9.12	9004.66	2113.21	131.1	32.00	2.99	2.99	-0.08
	10880.00	91.23	179.47	-2144.19	9.27	9003.99	2144.21	131.1	31.00	1.63	-0.11	-1.63
	10912.00	91.73	179.75	-2176.18	9.48	9003.16	2176.20	131.1	32.00	1.78	1.54	0.89
	10944.00	91.88	179.13	-2208.16	9.79	9002.15	2208.18	131.1	32.00	2.02	0.48	-1.96
	10975.00	91.14	179.50	-2239.15	10.17	9001.34	2239.17	131.1	31.00	2.67	-2.39	1.20
	11007.00	90.89	179.80	-2271.14	10.36	9000.77	2271.16	131.1	32.00	1.22	-0.77	0.94

ADVANTAGE Field Survey Listing

**BAKER
HUGHES**

INTEQ

Operator RMR Operating, LLC **Fields** (Madera) **API No** 300234063300 **Location** S25 T26N R34E
Well Madera "25" Federal No. 2 H **Wellbore** Madera "25" Federal No. 2 H Orig Hole **Rig** Rig 6 **Job** 4RJHX29

Tie In	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Temperature degF	CRS LEN ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	11039.00	89.63	179.64	-2303.14	10.52	9000.62	2303.16	131.1	32.00	3.98	-3.95	-0.51

Tie Column Legend: I - interpolated tie-point, S - survey station, U - user-defined, T - Surface

Notice: Field Copy Only. Certified results will be provided after submission to the Baker Hughes INTEQ office.

NEXUS

DIRECTIONAL SOLUTIONS, L.P.

Survey Sheet

Company:	RMR	Job Number:	13-0019	Calculation Method:	Minimum Curvature
Well:	Madera 25 fed Com #2H	Mag Decl.:	7.23	Proposed Azimuth	179.51
Location:	Lea County, New Mexico	Dir Driller:	ody Stroud/David Pennington	Depth Reference	Rig
Rig:	Western #6	MWD Eng:	Jered Addy	Tie Into:	Baker Survey
Leg:	Lateral	MWD Eng:			

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)		E/W (ft)		Distance (ft)	Direction Azimuth			
Tie In	11039	89.63	179.64	0	9000.64	2303.15	2303.14	S	10.52	E	0.00	0.00	0.00	0.00	0.00
1	11082	88.90	179.30	43	9001.19	2346.14	2346.13	S	10.92	E	2346.16	179.73	1.87	-1.70	-0.79
2	11113	89.50	179.80	31	9001.62	2377.14	2377.13	S	11.16	E	2377.16	179.73	2.52	1.94	1.61
3	11145	90.50	179.90	32	9001.62	2409.14	2409.13	S	11.24	E	2409.16	179.73	3.14	3.13	0.31
4	11177	92.00	180.40	32	9000.93	2441.13	2441.12	S	11.16	E	2441.15	179.74	4.94	4.69	1.56
5	11208	91.30	180.40	31	9000.03	2472.11	2472.11	S	10.94	E	2472.13	179.75	2.26	-2.26	0.00
6	11240	90.30	180.30	32	8999.59	2504.10	2504.10	S	10.75	E	2504.13	179.75	3.14	-3.13	-0.31
7	11272	88.80	179.80	32	8999.84	2536.10	2536.10	S	10.72	E	2536.12	179.76	4.94	-4.69	-1.56
8	11303	89.20	179.80	31	9000.38	2567.09	2567.10	S	10.83	E	2567.12	179.76	1.29	1.29	0.00
9	11335	88.40	179.20	32	9001.05	2599.09	2599.09	S	11.11	E	2599.11	179.76	3.12	-2.50	-1.88
10	11367	88.70	179.00	32	9001.86	2631.08	2631.07	S	11.61	E	2631.10	179.75	1.13	0.94	-0.62
11	11398	89.20	179.10	31	9002.43	2662.07	2662.06	S	12.13	E	2662.09	179.74	1.64	1.61	0.32
12	11430	89.80	179.10	32	9002.71	2694.07	2694.06	S	12.63	E	2694.09	179.73	1.87	1.87	0.00
13	11462	90.30	178.90	32	9002.68	2726.07	2726.05	S	13.19	E	2726.08	179.72	1.68	1.56	-0.62
14	11493	91.40	179.40	31	9002.22	2757.06	2757.05	S	13.65	E	2757.08	179.72	3.90	3.55	1.61
15	11525	91.40	179.50	32	9001.44	2789.05	2789.03	S	13.95	E	2789.07	179.71	0.31	0.00	0.31
16	11557	90.90	179.00	32	9000.79	2821.05	2821.03	S	14.37	E	2821.06	179.71	2.21	-1.56	-1.56
17	11588	91.00	178.50	31	9000.28	2852.04	2852.01	S	15.05	E	2852.05	179.70	1.64	0.32	-1.61
18	11620	90.30	178.60	32	8999.92	2884.03	2884.00	S	15.86	E	2884.04	179.68	2.21	-2.19	0.31
19	11652	89.80	178.70	32	8999.89	2916.03	2915.99	S	16.61	E	2916.04	179.67	1.59	-1.56	0.31
20	11683	90.50	179.10	31	8999.81	2947.03	2946.99	S	17.21	E	2947.04	179.67	2.60	2.26	1.29
21	11715	91.70	179.50	32	8999.19	2979.02	2978.98	S	17.60	E	2979.03	179.66	3.95	3.75	1.25
22	11746	91.60	179.80	31	8998.30	3010.01	3009.96	S	17.79	E	3010.02	179.66	1.02	-0.32	0.97
23	11777	90.00	181.30	31	8997.87	3041.00	3040.96	S	17.49	E	3041.01	179.67	7.07	-5.16	4.84
24	11809	89.70	181.10	32	8997.95	3072.98	3072.95	S	16.82	E	3073.00	179.69	1.13	-0.94	-0.63
25	11841	89.70	181.30	32	8998.12	3104.97	3104.94	S	16.15	E	3104.98	179.70	0.62	0.00	0.63
26	11873	89.40	180.50	32	8998.37	3136.96	3136.94	S	15.65	E	3136.98	179.71	2.67	-0.94	-2.50
27	11904	89.60	180.40	31	8998.64	3167.95	3167.94	S	15.40	E	3167.97	179.72	0.72	0.65	-0.32
28	11936	90.30	181.10	32	8998.67	3199.94	3199.93	S	14.98	E	3199.97	179.73	3.09	2.19	2.19
29	11968	90.20	180.90	32	8998.53	3231.93	3231.93	S	14.43	E	3231.96	179.74	0.70	-0.31	-0.62
30	11999	90.40	180.90	31	8998.37	3262.92	3262.92	S	13.94	E	3262.95	179.76	0.65	0.65	0.00
31	12031	90.50	181.30	32	8998.12	3294.91	3294.92	S	13.32	E	3294.94	179.77	1.29	0.31	1.25
32	12062	90.90	181.70	31	8997.74	3325.89	3325.90	S	12.51	E	3325.93	179.78	1.82	1.29	1.29
33	12094	91.10	182.00	32	8997.18	3357.86	3357.88	S	11.48	E	3357.90	179.80	1.13	0.62	0.94

Company:	RMR	Job Number:	13-0019
Well:	Madera 25 fed Com #2H	Mag Decl.:	7.23
Location:	Lea County, New Mexico	Dir Driller:	ody Stroud/David Pennington
Rig:	Western #6	MWD Eng:	Jered Addy
Leg:	Lateral	MWD Eng:	

Calculation Method:	Minimum Curvature
Proposed Azimuth	179.51
Depth Reference	Rig
Tie Into:	Baker Survey

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
34	12126	91:30	181:70	32	8996.51	3389.82	3389.86	S 10.45 E	3389.87	179.82	1.13	0.63	-0.94
35	12157	90:30	180:70	31	8996.08	3420.81	3420.85	S 9.80 E	3420.86	179.84	4.56	-3.23	-3.23
36	12189	90:90	180:70	32	8995.74	3452.80	3452.84	S 9.41 E	3452.85	179.84	1.87	1.88	0.00
37	12220	91:60	181:00	31	8995.07	3483.78	3483.83	S 8.95 E	3483.84	179.85	2.46	2.26	0.97
38	12252	91:50	180:80	32	8994.20	3515.76	3515.82	S 8.45 E	3515.83	179.86	0.70	-0.31	-0.62
39	12284	90:50	180:00	32	8993.64	3547.75	3547.81	S 8.22 E	3547.82	179.87	4.00	-3.13	-2.50
40	12315	90:70	179:70	31	8993.32	3578.75	3578.81	S 8.30 E	3578.82	179.87	1.16	0.65	-0.97
41	12347	91:40	180:00	32	8992.73	3610.74	3610.80	S 8.39 E	3610.81	179.87	2.38	2.19	0.94
42	12379	91:60	180:10	32	8991.89	3642.73	3642.79	S 8.36 E	3642.80	179.87	0.70	0.62	0.31
43	12410	90:70	179:20	31	8991.27	3673.72	3673.78	S 8.55 E	3673.79	179.87	4.11	-2.90	-2.90
44	12442	90:60	179:40	32	8990.91	3705.72	3705.78	S 8.94 E	3705.79	179.86	0.70	-0.31	0.63
45	12474	89:50	179:10	32	8990.88	3737.72	3737.78	S 9.36 E	3737.79	179.86	3.56	-3.44	-0.94
46	12506	88:90	179:10	32	8991.33	3769.71	3769.77	S 9.86 E	3769.78	179.85	1.87	-1.87	0.00
47	12537	89:00	179:20	31	8991.89	3800.71	3800.76	S 10.32 E	3800.77	179.84	0.46	0.32	0.32
48	12569	89:10	178:80	32	8992.42	3832.70	3832.75	S 10.88 E	3832.77	179.84	1.29	0.31	-1.25
49	12601	89:00	178:70	32	8992.96	3864.70	3864.74	S 11.58 E	3864.76	179.83	0.44	-0.31	-0.31
50	12632	88:90	178:60	31	8993.52	3895.69	3895.72	S 12.31 E	3895.74	179.82	0.46	-0.32	-0.32
51	12664	88:80	178:80	32	8994.17	3927.68	3927.71	S 13.03 E	3927.73	179.81	0.70	-0.31	0.63
52	12696	88:80	178:50	32	8994.84	3959.67	3959.69	S 13.79 E	3959.72	179.80	0.94	0.00	-0.94
53	12727	88:70	178:30	31	8995.51	3990.65	3990.67	S 14.65 E	3990.70	179.79	0.72	-0.32	-0.65
54	12759	88:60	178:60	32	8996.27	4022.64	4022.65	S 15.52 E	4022.68	179.78	0.99	-0.31	0.94
55	12791	88:90	179:10	32	8996.96	4054.63	4054.64	S 16.16 E	4054.67	179.77	1.82	0.94	1.56
56	12822	88:80	179:10	31	8997.59	4085.62	4085.63	S 16.65 E	4085.66	179.77	0.32	-0.32	0.00
57	12854	89:20	179:90	32	8998.14	4117.62	4117.62	S 16.93 E	4117.66	179.76	2.79	1.25	2.50
58	12886	89:30	179:80	32	8998.56	4149.61	4149.62	S 17.01 E	4149.65	179.77	0.44	0.31	-0.31
59	12917	89:50	179:60	31	8998.89	4180.61	4180.62	S 17.17 E	4180.65	179.76	0.91	0.65	-0.65
60	12949	90:30	179:40	32	8998.94	4212.61	4212.62	S 17.45 E	4212.65	179.76	2.58	2.50	-0.62
61	12981	91:00	179:70	32	8998.58	4244.61	4244.61	S 17.70 E	4244.65	179.76	2.38	2.19	0.94
62	13012	90:90	179:30	31	8998.07	4275.60	4275.61	S 17.97 E	4275.65	179.76	1.33	-0.32	-1.29
63	13044	90:20	178:90	32	8997.76	4307.60	4307.60	S 18.48 E	4307.64	179.75	2.52	-2.19	-1.25
64	13076	90:00	178:40	32	8997.70	4339.60	4339.59	S 19.23 E	4339.64	179.75	1.68	-0.63	-1.56
65	13107	90:50	178:40	31	8997.57	4370.59	4370.58	S 20.09 E	4370.63	179.74	1.61	1.61	0.00
66	13139	90:00	178:20	32	8997.43	4402.58	4402.57	S 21.04 E	4402.62	179.73	1.68	-1.56	-0.63
67	13171	90:10	178:10	32	8997.40	4434.58	4434.55	S 22.08 E	4434.60	179.71	0.44	0.31	-0.31
68	13203	91:20	178:10	32	8997.04	4466.56	4466.53	S 23.14 E	4466.59	179.70	3.44	3.44	0.00
69	13234	91:00	178:40	31	8996.44	4497.55	4497.51	S 24.08 E	4497.57	179.69	1.16	-0.65	0.97
70	13266	91:30	178:40	32	8995.80	4529.54	4529.49	S 24.98 E	4529.56	179.68	0.94	0.94	0.00
71	13298	91:30	178:10	32	8995.07	4561.52	4561.47	S 25.95 E	4561.54	179.67	0.94	0.00	-0.94
72	13329	91:60	178:20	31	8994.29	4592.50	4592.44	S 26.96 E	4592.52	179.66	1.02	0.97	0.32
73	13361	92:60	178:00	32	8993.12	4624.47	4624.40	S 28.02 E	4624.49	179.65	3.19	3.13	-0.62
74	13393	92:50	177:80	32	8991.69	4656.43	4656.35	S 29.19 E	4656.44	179.64	0.70	-0.31	-0.62
75	13424	92:40	178:00	31	8990.37	4687.39	4687.30	S 30.32 E	4687.40	179.63	0.72	-0.32	0.65

Company:	RMR	Job Number:	13-0019
Well:	Madera 25 fed Com #2H	Mag Decl.:	7.23
Location:	Lea County, New Mexico	Dir Driller:	ody Stroud/David Pennington
Rig:	Western #6	MWD Eng:	Jered Addy
Leg:	Lateral	MWD Eng:	

Calculation Method:	Minimum Curvature
Proposed Azimuth	179.51
Depth Reference	Rig
Tie Into:	Baker Survey

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
76	13456	92:50	177:70	32	8989.00	4719.34	4719.25	S 31.52 E	4719.35	179.62	0.99	0.31	-0.94
77	13488	92:40	177:50	32	8987.63	4751.30	4751.19	S 32.86 E	4751.30	179.60	0.70	-0.31	-0.62
78	13519	92:20	177:40	31	8986.39	4782.25	4782.13	S 34.24 E	4782.26	179.59	0.72	-0.65	-0.32
79	13551	92:10	177:60	32	8985.19	4814.21	4814.08	S 35.63 E	4814.21	179.58	0.70	-0.31	0.62
80	13583	92:20	177:70	32	8983.99	4846.17	4846.03	S 36.94 E	4846.17	179.56	0.44	0.31	0.31
81	13614	92:40	177:80	31	8982.74	4877.13	4876.98	S 38.16 E	4877.13	179.55	0.72	0.65	0.32
82	13646	92:40	177:90	32	8981.40	4909.09	4908.93	S 39.36 E	4909.09	179.54	0.31	0.00	0.31
83	13677	92:00	177:10	31	8980.21	4940.05	4939.88	S 40.71 E	4940.05	179.53	2.88	-1.29	-2.58
84	13709	92:00	177:00	32	8979.10	4972.00	4971.82	S 42.36 E	4972.00	179.51	0.31	0.00	-0.31
85	13741	92:70	177:50	32	8977.78	5003.95	5003.75	S 43.89 E	5003.95	179.50	2.69	2.19	1.56
86	13772	92:90	177:70	31	8976.27	5034.89	5034.69	S 45.19 E	5034.89	179.49	0.91	0.65	0.65
87	13804	92:40	178:20	32	8974.79	5066.84	5066.63	S 46.33 E	5066.85	179.48	2.21	-1.56	1.56
88	13836	92:20	178:40	32	8973.51	5098.81	5098.59	S 47.28 E	5098.81	179.47	0.88	-0.63	0.63
89	13868	92:10	178:40	32	8972.31	5130.78	5130.56	S 48.17 E	5130.79	179.46	0.31	-0.31	0.00
90	13899	90:90	178:60	31	8971.49	5161.77	5161.54	S 48.98 E	5161.77	179.46	3.92	-3.87	0.65
91	13931	90:60	178:50	32	8971.08	5193.76	5193.52	S 49.79 E	5193.76	179.45	0.99	-0.94	-0.31
92	13963	90:40	178:40	32	8970.80	5225.75	5225.51	S 50.66 E	5225.76	179.44	0.70	-0.62	-0.31
93	13994	90:50	178:30	31	8970.55	5256.75	5256.50	S 51.55 E	5256.75	179.44	0.46	0.32	-0.32
94	14026	90:80	178:40	32	8970.19	5288.74	5288.48	S 52.47 E	5288.74	179.43	0.99	0.94	0.31
95	14058	90:40	178:40	32	8969.86	5320.73	5320.47	S 53.37 E	5320.74	179.43	1.25	-1.25	0.00
96	14089	90:30	178:30	31	8969.67	5351.72	5351.45	S 54.26 E	5351.73	179.42	0.46	-0.32	-0.32
97	14121	90:60	178:30	32	8969.41	5383.71	5383.44	S 55.21 E	5383.72	179.41	0.94	0.94	0.00
98	14153	91:20	178:40	32	8968.91	5415.70	5415.42	S 56.13 E	5415.71	179.41	1.90	1.88	0.31
99	14184	91:40	178:40	31	8968.21	5446.69	5446.40	S 56.99 E	5446.70	179.40	0.65	0.65	0.00
100	14216	91:50	178:30	32	8967.40	5478.67	5478.38	S 57.92 E	5478.68	179.39	0.44	0.31	-0.31
101	14248	91:00	178:00	32	8966.70	5510.66	5510.35	S 58.95 E	5510.67	179.39	1.82	-1.56	-0.94
102	14279	90:20	177:60	31	8966.38	5541.64	5541.33	S 60.14 E	5541.66	179.38	2.89	-2.58	-1.29
103	14311	89:80	177:80	32	8966.38	5573.62	5573.30	S 61.42 E	5573.64	179.37	1.40	-1.25	0.63
104	14343	90:40	177:90	32	8966.32	5605.61	5605.28	S 62.62 E	5605.63	179.36	1.90	1.88	0.31
105	14374	90:50	177:80	31	8966.08	5636.60	5636.26	S 63.79 E	5636.62	179.35	0.46	0.32	-0.32
106	14406	90:50	178:00	32	8965.80	5668.58	5668.23	S 64.96 E	5668.61	179.34	0.62	0.00	0.62
107	14437	89:90	178:10	31	8965.69	5699.57	5699.22	S 66.01 E	5699.60	179.34	1.96	-1.94	0.32
108	14469	89:80	178:60	32	8965.77	5731.57	5731.20	S 66.93 E	5731.59	179.33	1.59	-0.31	1.56
109	14482	89:60	177:80	13	8965.84	5744.56	5744.20	S 67.34 E	5744.59	179.33	6.34	-1.54	-6.15
110	14513	89:40	177:80	31	8966.11	5775.55	5775.17	S 68.53 E	5775.58	179.32	0.65	-0.65	0.00
111	14545	90:10	177:60	32	8966.25	5807.53	5807.15	S 69.82 E	5807.57	179.31	2.28	2.19	-0.63
112	14577	89:00	177:50	32	8966.50	5839.51	5839.12	S 71.19 E	5839.55	179.30	3.45	-3.44	-0.31
113	14608	88:80	177:30	31	8967.10	5870.48	5870.08	S 72.59 E	5870.53	179.29	0.91	-0.65	-0.65
114	14640	90:10	177:40	32	8967.40	5902.46	5902.04	S 74.07 E	5902.51	179.28	4.07	4.06	0.31
115	14672	90:40	177:30	32	8967.27	5934.44	5934.01	S 75.55 E	5934.49	179.27	0.99	0.94	-0.31
116	14703	91:10	178:10	31	8966.86	5965.42	5964.98	S 76.79 E	5965.47	179.26	3.43	2.26	2.58
117	14735	91:40	178:80	32	8966.16	5997.40	5996.96	S 77.66 E	5997.46	179.26	2.38	0.94	2.19

Company:	RMR	Job Number:	13-0019
Well:	Madera 25 fed Com #2H	Mag Decl.:	7.23
Location:	Lea County, New Mexico	Dir Driller:	ody Stroud/David Pennington
Rig:	Western #6	MWD Eng:	Jered Addy
Leg:	Lateral	MWD Eng:	

Calculation Method:	Minimum Curvature
Proposed Azimuth	179.51
Depth Reference	Rig
Tie Into:	Baker Survey

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (ft/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
118	14767	91.60	178.50	32	8965.32	6029.39	6028.94	S 78.41 E	6029.45	179.25	1.13	0.62	-0.94
119	14798	91.90	178.30	31	8964.38	6060.37	6059.91	S 79.28 E	6060.43	179.25	1.16	0.97	-0.65
120	14830	92.10	178.00	32	8963.26	6092.34	6091.88	S 80.31 E	6092.41	179.24	1.13	0.62	-0.94
121	14862	91.20	179.50	32	8962.34	6124.32	6123.85	S 81.01 E	6124.39	179.24	5.46	-2.81	4.69
122	14893	91.30	179.80	31	8961.66	6155.32	6154.85	S 81.20 E	6155.38	179.24	1.02	0.32	0.97
123	14925	91.40	179.60	32	8960.91	6187.31	6186.84	S 81.36 E	6187.37	179.25	0.70	0.31	-0.63
124	14956	91.60	179.80	31	8960.10	6218.30	6217.83	S 81.53 E	6218.36	179.25	0.91	0.65	0.65
125	14988	92.00	179.80	32	8959.09	6250.28	6249.81	S 81.64 E	6250.34	179.25	1.25	1.25	0.00
126	15020	92.40	179.70	32	8957.86	6282.26	6281.79	S 81.78 E	6282.32	179.25	1.29	1.25	-0.31
127	15051	91.10	179.90	31	8956.92	6313.24	6312.77	S 81.89 E	6313.30	179.26	4.24	-4.19	0.65
128	15083	91.10	179.80	32	8956.30	6345.23	6344.76	S 81.97 E	6345.29	179.26	0.31	0.00	-0.31
129	15115	91.40	179.90	32	8955.60	6377.22	6376.76	S 82.05 E	6377.28	179.26	0.99	0.94	0.31
130	15146	91.10	180.40	31	8954.93	6408.22	6407.75	S 81.97 E	6408.27	179.27	1.88	-0.97	1.61
131	15178	91.30	180.00	32	8954.26	6440.21	6439.74	S 81.86 E	6440.26	179.27	1.40	0.63	-1.25
132	15210	90.20	179.20	32	8953.84	6472.20	6471.74	S 82.08 E	6472.26	179.27	4.25	-3.44	-2.50
133	15241	90.30	179.20	31	8953.70	6503.20	6502.73	S 82.52 E	6503.26	179.27	0.32	0.32	0.00
134	15273	90.60	178.80	32	8953.45	6535.20	6534.73	S 83.08 E	6535.26	179.27	1.56	0.94	-1.25
135	15305	90.80	179.00	32	8953.06	6567.20	6566.72	S 83.69 E	6567.25	179.27	0.88	0.63	0.62
136	15337	91.00	178.70	32	8952.56	6599.19	6598.71	S 84.33 E	6599.25	179.27	1.13	0.63	-0.94
137	15368	91.30	178.20	31	8951.94	6630.18	6629.69	S 85.17 E	6630.24	179.26	1.88	0.97	-1.61
138	15400	91.50	178.60	32	8951.16	6662.16	6661.67	S 86.06 E	6662.23	179.26	1.40	0.63	1.25
139	15432	91.40	177.50	32	8950.35	6694.14	6693.64	S 87.15 E	6694.21	179.25	3.45	-0.31	-3.44
140	15463	90.30	178.10	31	8949.89	6725.12	6724.61	S 88.34 E	6725.19	179.25	4.04	-3.55	1.94
141	15495	89.60	178.40	32	8949.91	6757.11	6756.60	S 89.32 E	6757.19	179.24	2.38	-2.19	0.94
142	15526	89.70	178.30	31	8950.10	6788.11	6787.58	S 90.21 E	6788.18	179.24	0.46	0.32	-0.32
143	15558	89.90	177.80	32	8950.21	6820.10	6819.57	S 91.30 E	6820.18	179.23	1.68	0.63	-1.56
144	15590	90.20	177.90	32	8950.19	6852.08	6851.54	S 92.50 E	6852.17	179.23	0.99	0.94	0.31
145	15621	90.90	177.70	31	8949.89	6883.07	6882.52	S 93.69 E	6883.16	179.22	2.35	2.26	-0.65
146	15653	91.10	177.50	32	8949.33	6915.05	6914.49	S 95.03 E	6915.14	179.21	0.88	0.62	-0.62
147	15684	91.50	177.50	31	8948.63	6946.02	6945.45	S 96.38 E	6946.12	179.20	1.29	1.29	0.00
148	15716	91.60	177.20	32	8947.76	6977.98	6977.40	S 97.86 E	6978.09	179.20	0.99	0.31	-0.94
149	15748	92.10	177.50	32	8946.73	7009.94	7009.35	S 99.34 E	7010.06	179.19	1.82	1.56	0.94
150	15779	92.40	177.20	31	8945.51	7040.90	7040.29	S 100.77 E	7041.02	179.18	1.37	0.97	-0.97
151	15827	92.40	177.20	48	8943.50	7088.82	7088.19	S 103.12 E	7088.94	179.17	0.00	0.00	0.00