

SANTA FE ENERGY
 FEDERAL AE, WELL #1
 EDDY COUNTY, NEW MEXICO
 RIG: DAWSON
 JOB NUMBER: 377186 05/26/97 L. BENZEN
 DECLINATION: 9.20 DEGREES EAST (TRUE)
 PROPOSED DIRECTION: 350.00

MULTI-SHOT, INC.

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Report of Survey

Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	R E C T A N G U L A R C O O R D I N A T E S	DLS Deg/100'
0	0	0	0	0	0	
200.00	.30	126.64	200.00	-.38	.31 S	.15
400.00	.31	126.28	400.00	-1.15	.94 S	0
600.00	.60	144.23	599.99	-2.49	2.11 S	.16
800.00	1.35	141.88	799.96	-5.51	4.82 S	.37
1000.00	1.95	143.96	999.87	-10.64	9.42 S	.30
1200.00	2.56	144.45	1199.72	-17.73	15.81 S	.30
1400.00	2.76	147.39	1399.50	-26.20	23.50 S	.12
1600.00	3.70	141.33	1599.18	-36.31	32.59 S	.50
1800.00	3.80	140.70	1798.76	-47.75	42.76 S	.05
2000.00	2.44	135.90	1998.46	-57.06	50.95 S	.69
2200.00	2.13	125.75	2198.30	-63.25	56.18 S	.25
2400.00	.72	127.47	2398.23	-66.83	59.11 S	.70
2600.00	.22	183.86	2598.22	-68.13	60.26 S	.31
2800.00	.26	210.28	2798.22	-68.85	61.03 S	.06
3000.00	.33	207.24	2998.22	-69.66	61.94 S	.04
3200.00	.36	222.61	3198.22	-70.50	62.91 S	.05
3400.00	.15	59.38	3398.21	-70.79	63.24 S	.25
3485.00	.37	334.11	3483.21	-70.48	62.94 S	.46

Final location: 79.74 feet at 142.12 degrees
 Plane of Vertical Section: 350.00 degrees