

THORNTON OPERATING CO.

McCLELLAN FEDERAL NO. 1, slot #1

non designated, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrack No. 1
Last revised : 18-Feb-98

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
9565.00	1.94	307.32	9563.76	5.47 S	0.62	-25.14
9610.00	12.90	305.80	9608.32	2.06 S	24.36	-19.41
9642.00	24.60	319.60	9638.58	5.13 N	38.86	-9.20
9673.00	37.10	322.10	9665.14	17.47 N	40.53	6.57
9705.00	49.20	319.30	9688.45	34.34 N	38.28	28.31
9737.00	59.40	315.50	9707.10	53.40 N	33.29	54.23
9769.00	70.60	310.50	9720.61	73.09 N	37.74	83.16
9800.00	76.90	311.70	9729.28	92.65 N	20.66	112.83
9831.00	78.70	307.80	9735.83	112.02 N	13.60	143.00
9862.00	77.70	307.60	9742.17	130.58 N	3.29	173.10
9893.00	75.80	308.10	9749.28	149.09 N	6.33	203.04
9924.00	74.70	308.50	9757.17	167.67 N	3.76	232.81
9971.00	74.70	308.50	9769.57	195.89 N	0.00	277.85

Projection to TD

All data is in feet unless otherwise stated.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 277.85 on azimuth 314.83 degrees from wellhead.

Vertical section is from N 0.00 E 0.00 on azimuth 315.00 degrees.

Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ