

COLLINS AND WARE, INC.
QUAHADA RIDGE 31 FEDERAL NO.1, slot #1
DELAWARE SAND, EDDY COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : LAT. NO.2
Last revised : 21-Nov-94

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	
6130.00	69.70	330.60	6115.10	10.99 N	23.50 W	138.03	10.99
6135.00	73.40	331.50	6116.68	15.14 N	25.80 W	75.94	15.14
6140.00	81.50	333.60	6117.77	19.47 N	28.05 W	167.10	19.47
6145.00	88.10	335.40	6118.22	23.96 N	30.19 W	136.78	23.96
.50.00	91.80	338.60	6118.22	28.56 N	32.14 W	97.83	28.56
							OPEN HOLE SIDETRACK
6153.00	91.41	339.08	6118.14	31.36 N	33.22 W	20.61	31.36
6160.00	90.50	340.20	6118.02	37.92 N	35.66 W	20.61	37.92
6170.00	86.20	341.80	6118.31	47.37 N	38.91 W	45.88	47.37
6180.00	83.90	343.40	6119.17	56.87 N	41.89 W	27.98	56.87
6190.00	82.30	344.20	6120.38	66.40 N	44.66 W	17.86	66.40
							COMPLETE TIME DRILL
6200.00	81.70	345.80	6121.77	75.97 N	47.22 W	16.94	75.97
6210.00	80.50	346.60	6123.31	85.56 N	49.58 W	14.37	85.56
6220.00	80.70	348.20	6124.95	95.19 N	51.73 W	15.91	95.19
6230.00	81.20	349.00	6126.52	104.87 N	53.68 W	9.35	104.87
6240.00	81.70	349.00	6128.01	114.58 N	55.57 W	5.00	114.58
6250.00	81.90	349.00	6129.43	124.30 N	57.46 W	2.00	124.30
6260.00	81.30	349.00	6130.89	134.01 N	59.35 W	6.00	134.01
6270.00	81.20	350.60	6132.42	143.73 N	61.10 W	15.84	143.73
6280.00	84.40	351.40	6133.67	153.53 N	62.65 W	32.97	153.53
284.00	87.59	355.01	6133.95	157.49 N	63.12 W	120.33	157.49
							TOH F/ MOTOR CHANGE-NOT BUI
6290.00	92.40	0.40	6133.95	163.48 N	63.36 W	120.33	163.48
6300.00	93.70	8.20	6133.42	173.43 N	62.61 W	78.96	173.43
6310.00	93.80	9.00	6132.76	183.30 N	61.12 W	8.04	183.30
6320.00	90.10	10.60	6132.42	193.14 N	59.42 W	40.31	193.14
6330.00	85.00	12.20	6132.85	202.94 N	57.45 W	53.44	202.94

All data is in feet unless otherwise stated
Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 0.00 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ