

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

SURVEY LISTING Page 1
Your ref : LAT. NO.1
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
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00
100.00	0.38	207.50	100.00	0.29 S	0.15 W	-0.29
200.00	0.50	214.24	200.00	0.95 S	0.55 W	-0.95
300.00	1.23	172.54	299.98	2.37 S	0.66 W	-2.37
400.00	1.16	168.50	399.96	4.43 S	0.32 W	-4.43
500.00	1.09	173.46	499.94	6.37 S	0.01 W	-6.37
600.00	1.05	175.05	599.93	8.22 S	0.18 E	-8.22
700.00	1.01	177.06	699.91	10.02 S	0.30 E	-10.02
800.00	0.95	182.96	799.90	11.72 S	0.31 E	-11.72
900.00	0.90	185.11	899.88	13.34 S	0.19 E	-13.34
1000.00	0.79	191.38	999.87	14.79 S	0.01 W	-14.79
1100.00	0.76	206.44	1099.86	16.06 S	0.44 W	-16.06
1200.00	0.87	219.38	1199.85	17.24 S	1.22 W	-17.24
1300.00	0.89	217.31	1299.84	18.45 S	2.17 W	-18.45
1400.00	0.76	222.96	1399.83	19.55 S	3.09 W	-19.55
1500.00	0.68	245.40	1499.82	20.28 S	4.09 W	-20.28
1600.00	0.47	288.39	1599.82	20.40 S	5.01 W	-20.40
1700.00	0.62	313.20	1699.81	19.90 S	5.80 W	-19.90
1800.00	0.83	333.08	1799.80	18.88 S	6.52 W	-18.88
1900.00	0.97	354.68	1899.79	17.40 S	6.93 W	-17.40
2000.00	1.24	15.36	1999.78	15.51 S	6.72 W	-15.51
2100.00	1.60	61.45	2099.75	13.80 S	5.21 W	-13.80
2200.00	2.02	82.31	2199.70	12.90 S	2.23 W	-12.90
2300.00	2.17	83.23	2299.63	12.44 S	1.39 E	-12.44
2400.00	2.16	90.04	2399.56	12.22 S	5.16 E	-12.22

All data is in feet unless otherwise stated
Coordinates from structure and TVD from wellhead.
Vertical section is from N 0.00 E 0.00 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