

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

SURVEY LISTING Page 2
 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
2500.00	2.29	91.60	2499.48	12.27 S	9.04 E	0.14
2600.00	2.25	101.70	2599.41	12.73 S	12.96 E	0.40
2700.00	2.08	102.52	2699.34	13.52 S	16.65 E	0.17
2800.00	1.25	119.12	2799.29	14.44 S	19.38 E	0.95
3000.00	0.61	129.44	2899.28	15.31 S	20.74 E	0.66
3100.00	0.48	168.93	2999.28	16.06 S	21.23 E	0.39
3200.00	0.34	178.52	3099.27	16.77 S	21.32 E	0.16
3300.00	0.31	157.25	3199.27	17.32 S	21.43 E	0.12
3400.00	0.32	191.35	3299.27	17.84 S	21.48 E	0.18
3500.00	0.24	181.20	3399.27	18.32 S	21.42 E	0.09
3600.00	0.32	193.25	3499.27	18.80 S	21.35 E	0.10
3700.00	0.14	236.02	3599.27	19.14 S	21.19 E	0.24
3800.00	0.30	251.37	3699.26	19.29 S	20.84 E	0.17
3900.00	0.56	271.22	3799.26	19.37 S	20.10 E	0.30
4000.00	0.53	277.24	3899.26	19.30 S	19.16 E	0.06
4100.00	0.64	272.23	3999.25	19.22 S	18.14 E	0.12
4200.00	0.59	278.55	4099.25	19.12 S	17.07 E	0.08
4300.00	0.67	266.33	4199.24	19.08 S	15.98 E	0.16
4400.00	0.62	289.56	4299.24	18.94 S	14.89 E	0.26
4500.00	0.64	272.84	4399.23	18.73 S	13.82 E	0.18
4600.00	0.62	288.09	4499.22	18.53 S	12.75 E	0.17
4700.00	0.74	276.81	4599.22	18.29 S	11.59 E	0.18
4800.00	0.74	288.98	4699.21	18.00 S	10.34 E	0.16
4900.00	0.61	279.05	4799.20	17.71 S	9.20 E	0.17
4900.00	0.58	298.58	4899.20	17.38 S	8.23 E	0.20

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