

Oil Conservation Division

Case No. 519
 Exhibit No. 519

A Gyrodata Directional Survey

Location: HURRICANE SWABBING UNIT 1, SAN JUAN COUNTY, NEW MEXICO
 Lease: NEBU Well: 233, 2-3/8" TUBING
 Job Number: MD0306G_156

MEASURED DEPTH	INCL	AZIMUTH	DOGLEG SEVERITY	VERTICAL DEPTH	CLOSURE DIST.	CLOSURE AZIMUTH	HORIZONTAL COORDINATES
feet	deg.	deg.	deg./100 ft.	feet	feet	deg.	feet
0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.00 N 0.00 E

0 - 3370 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 2-3/8" TUBING
 ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO ORIGINAL R.K.B. OF 16.5'

200.00	0.54	95.54	0.27	200.00	0.9	95.5	0.09 S 0.93 E
400.00	1.28	98.01	0.37	399.97	4.1	96.9	0.49 S 4.07 E
500.00	1.55	96.36	0.27	499.94	6.6	97.0	0.80 S 6.52 E
600.00	1.57	90.31	0.17	599.90	9.3	95.9	0.95 S 9.23 E
700.00	1.71	77.25	0.40	699.86	12.1	93.0	0.63 S 12.06 E
800.00	1.77	73.40	0.13	799.82	15.0	89.5	0.14 N 15.00 E
900.00	1.65	71.09	0.14	899.77	17.9	86.6	1.05 N 17.84 E
1000.00	1.54	71.72	0.11	999.73	20.6	84.6	1.94 N 20.48 E
1100.00	1.38	85.02	0.37	1099.70	23.1	83.9	2.46 N 22.95 E
1200.00	1.47	84.00	0.09	1199.67	25.6	83.9	2.70 N 25.42 E
1300.00	1.48	68.56	0.40	1299.64	28.1	83.2	3.31 N 27.90 E
1400.00	1.56	69.59	0.08	1399.60	30.7	82.0	4.26 N 30.38 E
1500.00	1.49	66.01	0.12	1499.57	33.3	80.9	5.26 N 32.84 E
1600.00	1.51	66.45	0.02	1599.53	35.8	79.8	6.31 N 35.24 E
1700.00	1.44	52.12	0.37	1699.50	38.2	78.5	7.61 N 37.44 E
1800.00	1.20	49.03	0.25	1799.47	40.3	77.0	9.07 N 39.22 E
1900.00	1.25	41.56	0.17	1899.45	42.1	75.4	10.57 N 40.73 E
2000.00	1.28	35.01	0.15	1999.43	43.9	73.7	12.31 N 42.10 E
2100.00	1.21	11.89	0.50	2099.40	45.3	71.6	14.25 N 42.96 E

A Gyrodatta Directional Survey

DEVON ENERGY

Location: HURRICANE SWABBING UNIT 1, SAN JUAN COUNTY, NEW MEXICO

Lease: NEBU Well: 233, 2- 3/8" TUBING

Job Number: MD0306G_156

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg/ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2200.00	1.07	344.04	0.56	2199.38	45.9 69.3	16.18 N 42.92 E
2300.00	1.10	336.21	0.15	2299.37	45.9 67.0	17.95 N 42.27 E
2400.00	1.08	341.55	0.10	2399.35	46.0 64.6	19.72 N 41.59 E
2500.00	1.15	340.56	0.07	2499.33	46.3 62.2	21.56 N 40.96 E
2600.00	1.26	332.21	0.21	2599.31	46.5 59.7	23.48 N 40.11 E
2700.00	0.92	323.67	0.38	2699.29	46.5 57.3	25.10 N 39.12 E
2800.00	0.84	288.08	0.54	2799.28	46.0 55.6	25.98 N 37.95 E
2900.00	0.77	300.44	0.19	2899.27	45.3 54.1	26.54 N 36.68 E
3000.00	0.71	315.03	0.20	2999.26	44.9 52.5	27.32 N 35.66 E
3100.00	0.85	342.80	0.40	3099.25	45.1 50.9	28.47 N 35.01 E
3200.00	1.61	314.97	0.95	3199.23	45.3 48.2	30.17 N 33.79 E
3300.00	2.01	342.13	0.93	3299.18	46.0 44.5	32.84 N 32.26 E
3370.00	1.49	339.67	0.75	3369.15	47.0 42.2	34.86 N 31.57 E

Final Station Closure: Distance: 47.03 ft Az: 42.16 deg.