

A Gyrodata Directional Survey

CONCHO RESOURCES

Well: FILAREE 18 FEDERAL WELL #1, 4-1/2" DRILLPIPE

Location: PATTERSON #144, EDDY COUNTY, NEW MEXICO

Job Number: MD0701GME269

MEASURED DEPTH feet	I N C L deg.	A Z I M U T H deg.	V E R T I C A L SECTION feet	D O G L E G SEVERITY deg./ 100 ft.	V E R T I C A L DEPTH feet	C L O S U R E D I S T . feet	A Z I M U T H deg.	H O R I Z O N T A L C O O R D I N A T E S feet
0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.0	0.00 N 0.00 E

0 - 4958 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE								
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #144 R.K.B.								

100.0	0.18	314.89	0.0	0.18	100.0	0.2	314.9	0.11 N 0.11 W
200.0	0.14	333.43	0.1	0.07	200.0	0.4	320.1	0.34 N 0.28 W
300.0	0.32	334.78	0.2	0.17	300.0	0.8	326.8	0.70 N 0.46 W
400.0	0.23	276.16	0.2	0.28	400.0	1.2	321.4	0.97 N 0.77 W
500.0	0.50	291.03	-0.1	0.29	500.0	1.8	309.8	1.15 N 1.38 W
600.0	0.60	316.62	-0.3	0.26	600.0	2.7	308.1	1.69 N 2.15 W
700.0	1.32	348.12	0.4	0.86	700.0	4.2	319.3	3.20 N 2.75 W
800.0	1.39	340.60	1.6	0.19	799.9	6.4	328.2	5.47 N 3.39 W
900.0	1.61	347.81	3.0	0.29	899.9	9.0	332.9	7.99 N 4.09 W
1000.0	1.86	353.79	4.8	0.30	999.9	11.9	337.4	10.98 N 4.56 W
1100.0	2.23	0.62	7.3	0.44	1099.8	15.3	342.0	14.53 N 4.72 W
1200.0	2.07	2.58	10.1	0.17	1199.7	18.9	345.8	18.28 N 4.62 W
1300.0	1.87	16.90	12.9	0.53	1299.7	22.0	349.4	21.65 N 4.06 W
1400.0	1.65	25.69	15.8	0.35	1399.6	24.7	353.1	24.51 N 2.96 W
1500.0	1.44	33.79	18.4	0.30	1499.6	26.9	356.5	26.85 N 1.64 W
1600.0	1.36	27.94	20.8	0.16	1599.6	28.9	359.2	28.95 N 0.38 W
1700.0	1.14	32.68	22.9	0.25	1699.5	30.8	1.3	30.83 N 0.71 E
1800.0	0.98	26.29	24.7	0.20	1799.5	32.5	2.9	32.44 N 1.63 E
1900.0	0.97	34.23	26.4	0.14	1899.5	34.0	4.2	33.91 N 2.49 E
2000.0	0.95	41.39	28.0	0.12	1999.5	35.4	5.7	35.23 N 3.51 E