

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 S E C T I O N feet	D O G L E G S E V E R I T Y deg./ 100 ft.	V E R T I C A L D E P T H feet	C L O S U R E D I S T . A Z I M U T H feet deg.	H O R I Z O N T A L C O O R D I N A T E S feet
4500.0	0.88	97.10	63.9	0.12	4499.1	63.9 45.1	45.11 N 45.25 E
4600.0	0.81	104.98	64.7	0.14	4599.1	64.7 46.2	44.83 N 46.69 E
4700.0	1.17	262.36	64.2	1.94	4699.0	64.3 46.2	44.51 N 46.36 E
4800.0	0.46	134.84	63.4	1.50	4799.0	63.4 46.0	44.09 N 45.63 E
4900.0	0.62	142.53	63.3	0.17	4899.0	63.4 46.8	43.37 N 46.25 E
4958.0	0.31	169.99	63.1	0.65	4957.0	63.3 47.2	42.97 N 46.47 E

Final Station Closure: Distance: 63.29 ft Az: 47.24 deg.