

A Gyrodata Directional Survey

CONCHO RESOURCES

Well: SHUGART 31 FED #1, 4-1/2" DRILLPIPE

Location: PATTERSON DRILLING RIG #144, EDDY COUNTY, NEW MEXICO

Job Number: MD0501GMW203

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
6900.0	0.29	265.32	-29.8	0.30	6899.1	30.2 9.7	29.75 N 5.06 E
7000.0	0.57	7.47	-30.2	0.69	6999.1	30.6 9.2	30.22 N 4.87 E
7052.0	1.59	31.18	-31.1	2.11	7051.1	31.5 9.6	31.10 N 5.28 E

Final Station Closure: Distance: 31.54 ft Az: 9.63 deg.