

A Gyrodata Directional Survey

for

CONCHO RESOURCES

Location: PATTERSON #144, EDDY COUNTY, NEW MEXICO
Well: FILAREE 18 FEDERAL WELL #1, 4-1/2" DRILLPIPE

Job Number: MD0701GME269

Run Date: 9/20/01 2:05:20 PM

Surveyor: Tom Morren Kelsey Reece

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.386290 deg. N

Azimuth Correction:

Gyro: Bearings are Relative to True North

Proposed Well Direction: 43.380 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference