

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: 7/7/01 9:56:55 AM

Surveyor: Tom Morren

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