

A Gyrodata Directional Survey

for

CONCHO RESOURCES

Well: SHUGART 31 FED #1, 4-1/2" DRILLPIPE
Location: PATTERSON DRILLING RIG #144, EDDY COUNTY, NEW MEXICO

Job Number: MD0501GMW203

Run Date: 5/8/01 3:40:00 PM

Surveyor: James Taylor

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.707176 deg. N

Azimuth Correction:

Gyro: Bearings are Relative to True North

Proposed Well Direction: 180.000 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location