

A Gyrodata Directional Survey

for

Yates Petroleum

Well: ARREGUY NO. 1, 2-7/8" DRILLPIPE

Location: PATTERSON #49, LEA COUNTY, NEW MEXICO

Job Number: MD0800GMW223

Run Date: 8/25/00

Surveyor: John Zugg James Taylor Ruben Clemence

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.000000 deg. N

Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location