

A Gyrodata Directional Survey

for

Yates Petroleum

Location: PATTERSON #56, LEA COUNTY, NEW MEXICO
Well: ALAR AYL STATE #1, 4-1/2" DRILLPIPE

Job Number: MD0701GMW271

Run Date: 9/20/01 2:03:45 PM

Surveyor: Mike Shepherd Kelsey Reece

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.996930 deg. N

Azimuth Correction:

Gyro: Bearings are Relative to True North

Proposed Well Direction: 98.620 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

