

A Gyrodata Directional Survey

for

Yates Petroleum

Location: KEY #283, LEA COUNTY, NEW MEXICO
Well: GRAHM AKB STATE #4, 2-7/8" TUBING

Job Number: MD0901GMW342

Run Date: 9/5/01 12:26:48 PM

Surveyor: MIKE SHEPHERD

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.422280 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