

A Gyrodata Directional Survey

for

Yates Petroleum

Location: PATTERSON/UTI #512, EDDY COUNTY NEW MEXICO
Well: LOWE STAPLES AWR FED #1, 7-1/2" CASING

Job Number: MD0601GMW228

Run Date: 6/3/01

Surveyor: James Taylor Reed Ellis

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.461780 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 Local Horizontal Reference