

A Gyrodata Directional Survey

for

Yates Petroleum

Well: VADA AVJ STATE NO. 1, 3-1/2" DIRLLPIPE

Location: PATTERSON #56, LEA COUNTY, NEW MEXICO

Job Number: M1100GMO283

Run Date: 11/6/00

Surveyor: Lynn Duncan James Taylor

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.500000 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