

A Gyrodata Directional Survey

for

Louis Dreyfus Natural Gas

Well: LOCO HILLS 4 FED COM 4

Location: PATTERSON #55, EDDY COUNTY, NEW MEXICO

Job Number: MD0500STW161

Run Date: 5/12/00 5:42:00 PM

Surveyor: Troy Paredes David Sober

Calculation Method: MINIMUM CURVATURE

Total Magnetic: 6.40000 deg East to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location