

A Gyrodata Directional Survey

for

YATES/DARLEY

WELL: AWP COM, 4 1/2"

Location: UTI #164, LEA COUNTY, NEW MEXICO

Job Number: MD0101GME124

Run Dates: 1-Feb-01 00:31:03

Surveyors: JOHN ZUGB

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.333480 deg. N

Azimuth Correction:

Rate-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

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MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg. / 100 ft.	VERTICAL DEPTH feet	VERTICAL SECTION feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
0.0	0.00	0.00	N 0 0 E	0.00	0.0	0.0	0.0	0.0	0.00 N 0.00 E

RATE: GYROSCOPIC MULTISWITCH RUN INSIDE 4 1/2" DRILL PIPE

ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO UTI #164 R.K.B.