

**IMCO Services**

A Division of Halliburton Company
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DELTA US

STATE #8-1

SECTION 8, T-15-S, R-35-E

LEA COUNTY, NEW MEXICO 10,700'

Intermediate 400' - 4,650' (Continued):

Hole stability, at or near, intermediate casing point, will dictate the need for raising the viscosity or lowering the fluid loss.

Open Hole 4,650' - Total Depth

Drill from below intermediate casing with fresh water. Circulate the reserve pit for maximum settling of drilled solids. The use of a flocculant will enhance this operation. Maintain a 10.0 - 10.5 pH with additions of lime to minimize corrosion.

Some seepage loss may be experienced with drilling the upper portion of this interval. Small additions of IMCO Paper should easily rectify the problem. Total loss of returns was experienced on the Great Western "State 82 #1" at 5,400'±. Should this problem be encountered, we suggest spotting a 150 - 200 barrel viscous pill heavily laden with various lost circulation material. This procedure should restore circulation and allow drilling operations to continue.

At approximately 9,500', prior to the top of the Wolfcamp Formation, we recommend confining circulation to the steel pits. At this point begin mudding-up with a low solids non-dispersed IMCO Gel/Drispac System having the following properties:

Mud Weight	8.6 - 8.8	ppg
Viscosity	34 - 36	sec
Fluid Loss	10 - 15	ml
pH with caustic soda	9.0 - 9.5	

This fluid, with properties adjusted as hole dictates, should be adequate to reach total depth. It should also insure safe logging and casing operations.

ESTIMATED MUD COST:

\$12,000.00 - \$14,000.00 (with minimum problems)

REC-100

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HOMELAND SECURITY