

JERRY BUTTS
Owner-Engineer

box 283
artesia, new mexico
88210

phone
24 hours
~~505-748-6600~~
746-2907

*Adobe
drilling mud*

PROPOSED MUD PROGRAM
for
HONDO DRILLING COMPANY
Proposed Morrow Test 11,500'
Sec.30 - T18s - R29e
Eddy County, New Mexico

SURFACE:

Drill with Spud Mud of Gel and Lime having 40 sec/1000 Viscosity.

INTERMEDIATE:

Drill with Brine water to prevent washout in the Salt stringers.
For Drag on connections add Salt Gel to flush hole or raise viscosity.
For lost circulation, drill to casing point blind; at casing point
spot 200 barrels 40 vis mud in hole to insure a clean hole for running
pipe.

PRODUCTION:

Drill with fresh water to 8500'.
Add Lime for pH @ 10 plus
Sodium BiChromate for corrosion control of the drill string.
Paper to control seepage.

@ 8500' begin adding Brine to increase weight of fluid to 9.5 #/gal.
before drilling into the Wolfcamp. Continue drilling through the
Atoka with fluid as suggested. If no high pressures encountered before
mud up @ 11,000', I suggest reducing weight of fluid to 9.3 - 9.4#/gal .

@ 11,000' Mud Up with Drispac for Water Loss @ 5 - 7cc, Caustic Soda for
pH @ 10, Potash for KCL @ 2 %. This should have a viscosity @ 33 - 36
sec/1000. For sloughing shales, I suggest increasing the mud weight
with additions of Salt to control the shales. A weight of 9.6 - 9.8
was sufficient on the Wright Federal.#1 and it should be sufficient for
this well also.

Estimated mud cost for this well, No abnormal pressures, no lost circulation ,
and no shale problems should not exceed \$15,000.00.

Prepared by
Jerry D. Butts
ADOBE DRILLING MUD