



TEXAS MUD AND CHEMICAL CO.

P. O. BOX 1968

PHONE A/C 915/381-0400

ODESSA, TEXAS 79760

January 17, 1980

Depco, Inc.
800 Central
Odessa, Texas 79761

Attn: Mr. C. O. Bizzell

Dear Carl;

We are pleased to submit a Mud Program for your No. 1 Papalotes Federal drilled in Sec. 14, T-15S, R-28E in Chaves County, New Mexico.

0 - 350'	T.M.C. Gel and Lime Vis. 40-45 for hole conditions.
350 - 2150	Drill with native mud, circulating reserve. Add Mud Seal as needed for seepage. Caustic for P.H. control. 9.5 - 10. Sweep hole with 100 bbl. slug. 45-50 Vis. to run pipe.
2150 - 5500	Drill with fresh water, circulating reserve. Caustic for P.H. control, adding Mud Seal if needed for seepage.
5500 - 6500	Add brine if needed to raise chloride to 100,000 P.P.M. Add Salt Gel and Visbestos to raise Vis. 33-34. Add 2-3% oil, also, 2-3% K.C.L. to go into Abo shale.
6500 - 9,000'	Maintain Vis. 33-34, Lower W/L 20 cc or less for D.S.T. in Wolfcamp. Maintain 2-3% oil.
9,000 - T.D.	Maintain same characteristic and lower W/L to 5 cc to go into Marrow.
Drilg. Hazards:	Possible Abo shale heaving.
Est. Mud Cost:	\$20,000.00
Engineer:	Ronnie Koonce - Odessa 915/381 0400
Stock Point:	Lovington, New Mexico - call Odessa - 915/381-0400