

WELL PROGNOSIS

OPERATOR: Harvard Exploration & Development Corporation
WELL: #1 Mobil Federal Com
FIELD & DEPTH: Cemetary Morrow - 9550'
LOCATION 1960' FEL & 1980 FSL Sec. 7, T-20-S, R-25-E, Eddy County, N.M.
CONTRACTOR: Cactus Drilling or Moranco
ELEVATION: 3548' GR, 3560' RKB

ESTIMATED FORMATION TOPS

T/San Andres	600'
T/Glorieta	1410'
T/Tubb	2140'
T/Bone Spring Sand	3060'
T/Wolfcamp	6400'
T/Cisco	7610'
T/Strawn	8195'
T/Atoka	8500'
T/Barnett	9500'

CASING PROGRAM

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt. Per Foot</u>	<u>Setting Depth</u>	<u>Cement</u>
17 1/2"	12 3/4"	34# Foster	310'	300 sx. - Circ.
11 1/4"	8 5/8"	24# & 32#	1250'	400 sx.
7 7/8"	4 1/2"	11.6#	9500'	500 sx.

MUD PROGRAM

0 - 300' - Spud Mud
300 -1250' - Native mud
1250 -6500' - Water
6500 -8000' - Mud up - build weight and viscosity
8000 -9600' - 9.5# to 9.8# - Vis 34-40 - WL 10 cc or less through Morrow sands.

LOGGING PROGRAM

Run Schlumberger Simultaneous Gamma Ray-Caliper, Compensated Neutron Formation Density as porosity tool with Dual Laterolog as Resistivity tool if needed. Detail from 3000' to total depth. Mud logging and gas detector equipment will be put on the well from 6000' to total depth.

TESTING PROGRAM

All good shows of oil and/or gas will be drill stem tested. A minimum of 2 DST's are planned for the Morrow sand sections from approximately 9200' to 9500'.

WELL SUPERVISION

Well site supervision will be maintained from surface to total depth. Samples will be caught, washed and sacked from below intermediate csg. at 1250' to total depth at 10 foot intervals. Mud logging and gas detector unit will be operative from 6000' to total depth. All significant shows of oil and/or gas will be drill stem tested. Mechanically recorded drilling time will be maintained from surface to total depth. Blowout preventor stack and casing head will be independently pressure tested before drilling into the Wolfcamp Formation. A daily check of the blowout preventor system will be made from 8500' to total depth.