

MUD PROGRAM

CITIES SERVICE OIL COMPANY
SIMPSON A WELL NO. 1
SEC. 29-T2IS-R27E
EDDY COUNTY, NEW MEXICO

0' - 400'	Spud with fresh water and native mud. Mud weight 8.5 ppg. Viscosity 30-34.
400' - 3,550'	Drill with fresh water and native mud. If circulation is lost and cannot be regained, dry drill to 3,550' with fresh water. Mud weight 8.5 ppg. Viscosity 28-30.
3,550' - 7,000'	Drill with fresh water - brine system. Mud weight 9.4 - 9.5 ppg. Maintain ph of 10.
7,000' - 10,000'	Start increasing mud weight gradually at 7000' to 9.8 ppg at 8500'. Maintain weight and viscosity as dictated by hole conditions.
10,000' - 11,800' T.D.	Mud up at 10,700'. Reduce water loss to 6 - 10 cc prior to drilling through the Morrow. Mud weight approximately 9.8 ppg. Viscosity 30 - 34 sec.