

WELL PROGNOSIS

OPERATOR: Read & Stevens, Inc.
WELL: #1 Hissom State Com
FIELD & DEPTH: Burton Flat Morrow-12,000'-OWDD
LOCATION: 660' FSL & 660' FWL Section 23, T-21-S, R-27-E,
Eddy County, New Mexico
CONTRACTOR: Rial Drilling Company, Inc., Rig #2
ELEVATION: 3228.5' GR-3245' RKB

FORMATION TOPS

T/Capitan Reef	810' (+2435)
T/Delaware Mtn.	3112' (+133)
T/Bone Spring	5348' (-2103)
T/3rd Bone Spring Sand	8600' (-5355)
T/Wolfcamp Lime	9148' (-5903)
T/Strawn	10,405' (-7160)
T/Atoka	10,635' (-7390)
T/Morrow Lime	11,286' (-8041)
T/Upper Morrow Clastics	11,370' (-8125)
T/Lower Morrow Clastics	11,603' (-8358)
T/Barnett	11,815' (-8570)

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"	13 3/8"	48# & 54.5#	700'	700 sx. - Circ.
12 1/4"	9 5/8"	40#	3035'	580 sx. - top @1160'
8 3/4" to 10,652'				
7 7/8" to 12,000'	4 1/2"	11.6#	12,000'	900 sx. - top @8000'

MUD PROGRAM

0'-10,652' Load 9 5/8" csg. with 10.0# brine water and drill out cast iron bridge plug @ 2850 and cement plug across csg. shoe. Displace hole with brine water as remaining plugs are drilled to add total depth of 10,652'. Build wt. to 10.5# with Soda Ash if necessary.

10,652'-12,000' Continue brine water system to 11,250' and introduce brine polymer system with 3%-4% KCL added. Mud wt. 10.0#, Vis. 32-34, WL 8 cc or below, PH 9.5 with caustic.

LOGGING PROGRAM

Run Schlumberger Simultaneous Gamma Ray-Caliper, Compensated Neutron-Formation Density as porosity tool with Dual Laterolog-RXO as resistivity tool. Detail from 9000' to total depth.

DRILLING PROGRAM

1. Using workover unit, squeeze Capitan Reef perfs in 9 5/8" csg. from 1538'-1936'. Drill out squeeze cement and pressure test squeeze job.
2. Move-in rotary rig. Mix brine water system and drill out cast iron bridge plug @ 2850'. Drill out cement plugs 2970'-3100', 5270'-5400', 9000'-9200', 9520'-9650', and 10,220'-10,350'.
3. Drill 7 7/8" hole from old total depth 10,652' to 12,000'. Run 12,000' 4 1/2", 11.6#, N-80, L.T.&C. casing, cemented with 900 sx. Class "H" cement with 3/4 of 1% CFR-2 and 5# KCL per sx., if completion attempt is warranted.