

WELL PROGNOSIS

OPERATOR: Read & Stevens, Inc.

WELL: #3 Rose

FIELD & DEPTH: Buffalo Valley Penn Gas - Atoka - 9250'

LOCATION: 1650' FSL & 990' FEL Sec. 18, T-15-S, R-28-E, Chaves County, New Mexico

CONTRACTOR: Hondo Drilling Company

ELEVATION: 3565.2' GR - 3577 RKB

ESTIMATED FORMATION TOPS

T/Queen	1077' (+2500)
T/San Andres	1673' (+1904)
T/Glorieta	3228' (+ 349)
T/Tubb	4541' (- 964)
T/Abo	5345' (-1768)
T/Wolfcamp	6525' (-2948)
T/Cisco	7352' (-3775)
T/Canyon	7667' (-4090)
T/Strawn	8163' (-4586)
T/Atoka	8582' (-5005)
T/Chester	9003' (-5426)
T/Mississippian Lime	9083' (-5506)

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	400'	450 sx. - Circ.
11"	8 5/8"	24# J-55	1800'	200 sx.
7 7/8"	4 1/2"	10.5#, 11.6# J-55	9250'	500 sx.

MUD PROGRAM

0' - 400'	Spud mud with Magcobar gel and lime. If seepage is noted, add lost circulation material. If circulation is lost, dry drill to 400' and set surface casing.
450' - 1,800'	Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, WL no control.
1,800' - 5,200'	Fresh water and native mud. Mud wt. 8.4#, Vis. 30-32, WL no control.
5,200' - 8,000'	Magcogel and oil type drilling fluid. Mud wt. 8.5# - 8.8#, Vis. 30-32, 3% - 4% oil, WL no control.
8,000' - 9,250'	Fresh water, low solids spersene mud system with Magcogel and Magco CMC. Mud wt. 9.0# - 9.5#, Vis. 40-45, WL 10 or below, Ph. 9 - 9.5. Circulate portion of reserve pit when mudding up at 8,000'.