

SUPPLEMENTAL DRILLING DATA

MWJ PRODUCING COMPANY
WELL #1 BROWN 21 FEDERAL
SW¹/₄NW¹/₄ SEC. 21-7S-35E
ROOSEVELT COUNTY, NEW MEXICO

1. SURFACE FORMATION: Sandy soils of Tertiary Age (G.L. Elev. 4226').

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	260'	Glorietta	4800'
Ease Salt	2070'	Clearfork	5430'
Yates	2330'	Tubb	6060'
Queen	2980'	Abo	6820'
San Andres	3500'	Wolfcamp	7370'

3. ANTICIPATED POROSITY ZONES:

Water: Less than 250'
Oil: 4235 - 4300' (Slaughter P-3)
Oil: 7600 - 7700' (Wolfcamp)

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
13 3/8"	0 - 350'	48.0#	H-40	STC
8 5/8"	0 - 2400'	24.0#	K-55	STC
	2400 - 3200'	24.0#	S-80	STC
	3200 - 3500'	28.0#	S-80	STC
5 1/2"	0 - 900'	15.5#	K-55	STC
	900 - 5100'	14.0#	K-55	STC
	5100 - 7000'	15.5#	K-55	STC
	7000 - 8000'	17.0#	K-55	STC

5. SURFACE CONTROL EQUIPMENT: Two ram-type preventors.

6. CIRCULATING MEDIUM:

0 - 350' Fresh spud mud.
350 - 3500' Native mud with additives, as needed.
3500 - 8000' Fresh water conditioned as necessary for control of viscosity and water-loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.