

MESCALERO RIDGE 35 UNIT #23
DRILLING PLAN
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4. Casing Program

<u>Hole Size</u>	<u>Interval</u>	<u>Casing OD</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>
17 1/2"	0' - 40'	14"		Conductor	0.30" wall
12 1/4"	0' - 1500'	8 5/8"	24#	J-55	ST&C, new R-3
7 7/8"	0' - TD (6000'±)	5 1/2"	15.5#	J-55	ST&C, new R-3

Cementing Program

14" Conductor Casing: Cement with Ready-mix to surface.

8 5/8" Surface Casing: Cement to surface: 500 sks Lite (35% Poz, 65% Class C, 6% gel) with 2% CaCl₂ and 1/4 lb/sk Cellophane flakes + 200 sks Class C with 2% CaCl₂ and 1/4 lb/sk Cellophane flakes.

5 1/2" Production Casing: Cement to 1300': 550 sks Lite (35% Poz, 65% Class C, 6% gel) with 5 lb/sx salt and 1/4 lb/sk Cellophane flakes + 500 sks Class C with 3% salt, .5% Fluid Loss, 1/4 lb/sk Cellophane flakes.

The cement volumes for the 5 1/2" casing could be revised pending the caliper measurement from the open hole logs.

5. Minimum Specifications for Pressure Control

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (3M system) double ram type (3000 psi WP) preventor and a bag-type (Hydril) preventor (3000 psi WP). Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be installed on the 8 5/8" surface casing and utilized continuously until total depth is reached. As per BLM Drilling Operations Order #2, prior to drilling out the 8-5/8" casing shoe, the BOP's and Hydril will be function tested.