

BLM 8-POINT DRILLING PLAN  
ALTWEIN "B" FEDERAL COM. #1  
Section 12, T-19-S, R-23-E  
Eddy County, New Mexico

1. Estimated tops of important geological markers:

San Andres	630'
Cisco	6,000'
Morrow	8,300'

2. Estimated depths at which the top and the bottom of anticipated water, oil, gas or other mineral bearing formations are expected to be encountered and the plan for protecting such resources.

	<u>TOP</u>	<u>BOTTOM</u>	<u>PROTECTION</u>
Deepest FW	-----	1,700'	8-5/8" Casing and Cement
Cisco	6,000'	6,600'	
Atoka	8,000'	8,300' }	5" Casing and Cement
Morrow	8,300'	8,500' }	

3. Minimum specifications for pressure control equipment:

A. Wellhead Equipment:

Flange type, 3000 psi WP for 13-3/8" x 8-5/8" x 5" casing program with 2-3/8" tubing hanger.

B. Blowout Preventers:

<u>TYPE</u>	<u>PRESSURE RATING</u>	<u>INSTALLED ON CASING</u>
SA BOP	---	13-3/8"
RRA	3000 psi	8-5/8"

Refer to attached drawings and list of equipment.

C. BOP Control Unit:

The unit, located at least 40' from the BOP's, will be hydraulically operated and have two control systems.

- D. Upon installation, the Type "SA" BOP will be actuated and checked for proper working condition.

Upon installation, the TYPE "RRA" BOP will be tested to a low pressure (200-300 psi) and to a high pressure of 2000 psi. Casing rams will be tested in a like manner. An operational test of the blowout preventers will be performed on each round trip (but not more than once each day); the annular and pipe ram preventers will be closed on drill pipe and the blind rams will be closed while pipe is out of the hole.