MERIT ENERGY COMPANY

Sundance Federal Well #4 1980' FEL and 660' FNL Unit B Section 5-T24S-R31E Eddy County, New Mexico

1. The estimated top of geologic markers are as follows:

40601 Delaware Lime 5175' Cherry Canyon 63251 Brushy Canyon 79001 Bone Springs

2. The estimated depth at which anticipated water, oil and gas are expected to be encountered:

Surface to 500' Oil and Gas Delaware Lime 4060' to Bone Springs 8200'

- 3. Pressure Control Equipment: BOPE will be installled on the 13 3/8" casing and rated for 3000#. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B & B-1.
- 4. Auxiliary Equipment and proposed Casing Program:
 - A. Auxiliary Equipment: Kelly Cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit drill pipe and collars will be available on rig floor in open position at all times for use when Kelly is not in use.
 - B. Casing and Cementing Program: Casing Size: 13 3/8" Total Depth: 650' Hole Size: 17 1/2" Setting Depth: 650' Mud Weight: 8.8 ppg

Casing Design: Thread Coupling Interval Length Grade Weight D.D. 650° ST & C 0~6**5**0 ′ 8R J-55 13 3/8" 54.50#

Minimum Casing Design Factors: Collapse 11.30, Burst 27.30, Tensile Strength 8.53

Cement Program:

Lead Slurry: 280 sacks-3565 posC with 6% Bentonite 2% CaCl2 1/8 lb per sack Cellophane Flake Expected Linear Fill: True Hole Volume-554 feet Slurry Properties: Weight-12.8 ppg Yeild-1.98 cu.ft./sack

Tail Slurry: 290 sacks Class "C" with 2% CaCl2 Expected Linear Fill: True Hole Volume-552.94 feet Slurry Properties: Weight-12.8 ppg Yeild-1.32 cu.ft./sack

Total Depth: 4200' Casing Size: 8 5/8" Hole Size: 12 1/4" Mud Weight: 10.0 Setting Depth: 4200'