

**ATTACHMENT TO FORM 3160-3  
SAGEBRUSH 24 FEDERAL COM #1  
SECTION 24, T19S, R33E  
LEA COUNTY, NEW MEXICO**

**DRILLING PROGRAM**

**1. GEOLOGIC NAME OF SURFACE FORMATION**

Red Beds

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS**

|             |         |        |         |
|-------------|---------|--------|---------|
| Rustler     | 1,600'  | Strawn | 12,150' |
| Yates       | 3,490'  | Atoka  | 12,450' |
| Queen       | 4,450'  | Morrow | 12,720' |
| Delaware    | 5,900'  | TD     | 13,600' |
| Bone Spring | 7,950'  |        |         |
| Wolfcamp    | 11,050' |        |         |

**3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL, OR GAS**

|             |     |
|-------------|-----|
| Bone Spring | Oil |
| Morrow      | Gas |

**4. CASING AND CEMENTING PROGRAM**

| <u>Casing Size</u> | <u>From</u>    | <u>To</u> | <u>Weight</u> | <u>Grade</u> | <u>Joint</u> |
|--------------------|----------------|-----------|---------------|--------------|--------------|
| 13-3/8"            | 0-350'         |           | 48#           | H40          | ST&C         |
| 8-5/8"             | 0-2,000'       |           | 24#           | K55          | ST&C         |
|                    | 2,000'-4,400'  |           | 32#           | K55          | ST&C         |
|                    | 4,400'-5,200'  |           | 32#           | HCK55        | ST&C         |
| 5-1/2"             | 0-4,200'       |           | 20#           | N80          | LT&C         |
|                    | 4,200'-8,400'  |           | 17#           | N80          | LT&C         |
|                    | 8,400'-13,600' |           | 20#           | N80          | LT&C         |

Equivalent or adequate grades and weights of casing may be substituted at time casing is run, depending on availability.

We plan to drill a 17-1/2" hole to equal 350'. 13-3/8" casing will be cemented with 400 sx "C" or volume necessary to circulate to surface.

We plan to drill an 11" hole to equal 5,200". 8-5/8" casing will be cemented with 2,300 sx 35/65 Poz "C" or volume based on a fluid caliper necessary to circulate to surface.

We plan to drill a 7-7/8" hole to equal to 13,600'. 5-1/2" casing will be cemented with 1,500 sx 50/50 and 35/65 Poz "H" or volume necessary to tie back to 8-5/8" casing.