

Application for Permit to Drill Elizondo-Federal "A" No. 3

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August 18, 1976

5. Rotary drilling equipment will be utilized to drill the well to T.D. and run casing. This equipment will then be rigged down and the well will be completed with a pulling unit.

6. Proposed total depth 11,730'.

7. Estimated tops of important geologic markers:

Bone Springs	5030'
Dean	8440'
Wolfcamp	8740'
Strawn	10200'
Atoka	10770'
Morrow	11100'
Chester	11680'
Total Depth	11730'

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

A. Primary objective (top) Morrow Sands 11100'

B. Secondary objectives (tops) Wolfcamp 8740'
Strawn 10200'
Atoka 10770'

9. The proposed casing program is as follows:

Surface: 13-3/8" OD 48# H40 ST&C new casing

Intermediate: 8-5/8" OD 24# and 32# K55 ST&C new casing

Production: 5-1/2" OD 17# and 20# N80 LT&C new casing

10. Casing setting depth and cementing program:

A. 13-3/8" OD surface casing set at 600'. Cement with 300 sx Class C, 4% gel, 12# Gilsonite and 1/4# Flocele/sack with 2% CaCl followed by 200 sx Class C with 2% CaCl.

B. 8-5/8" OD intermediate casing set at 3000'. Cement with 300 sx Halliburton Thick Set Class C with 10# Gilsonite and 1/2# Flocele per sack and 3% CaCl followed by 800 sx Halliburton Lite with 5# Gilsonite and 1/4# Flocele per sack followed by 200 sx Class C with 2% CaCl.