

Application to Drill
Cottonwood Draw 22 Federal No. 2
Cimarex Energy Co. of Colorado
Unit I, Section 22
T25S-R26E, Eddy County, NM



30-015-36757

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location: SHL 2310 FSL & 380 FEL
BHL 330 FSL & 530 FEL

2. Elevation above sea level: 3,303' GR

3. Geologic name of surface formation: Quaternary Alluvium Deposits

4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.

5. Proposed drilling depth: Pilot Hole 3750' MD 4755' TVD 2976'

6. Estimated tops of geological markers:

Top Salt	1036'	Cherry Canyon M3	2941'
Base Salt	1652'	M3 TVD Target	2976'
Bell Canyon	1850'	Cherry Canyon L	3096'
Cherry Canyon	2803'	Cherry Canyon K	3177'
Cherry Canyon M	2872'	Cherry Canyon H	3498'

7. Possible mineral bearing formation:

Cherry Canyon	Oil
Bell Canyon	Oil

8. Proposed drilling Plan

In 12 $\frac{1}{4}$ " hole, set 8 $\frac{3}{4}$ " casing @ 430' and cement to surface. In 7 $\frac{7}{8}$ " hole, drill to Pilot Hole TD 3750.' Run open hole logs. Set cement plug from 2270' to 2770' (250' above and below KOP). Dress off cement plug.

Drill 7 $\frac{7}{8}$ " hole through curve and set & cement 5 $\frac{1}{2}$ " LTC casing from 0-2520' (KOP) and BTC from 2520'-3270' (EOC). Drill lateral 4 $\frac{3}{4}$ " hole from 3270' MD to 4755' MD (2976' TVD). Attempt natural open-hole completion. If natural flow is not possible with open-hole completion, attempt completion with 2 $\frac{7}{8}$ " slotted liner and no cement (liner hanger @ 2413' MD). If not viable, attempt completion with 2 $\frac{7}{8}$ " Peak Completion Assembly (RSB packer @ 2413' MD).