

30-015-36134



Cimarex Energy Co. of Colorado

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February 20, 2008

Oil Conservation Division
District II Office
1301 W. Grand Ave.
Artesia, New Mexico 88210
Attn: Ms. Kimberly Wilson

Re: Statewide Rule 118
Hydrogen Sulfide Gas Contingency Plan
Proposed Barbwire 9 State Com No. 1 Well

Dear Ms. Wilson:

In accordance with NMAC 19.15.3.118 C. (1) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Cimarex Energy Co. of Colorado does not anticipate that there will be enough H₂S from the surface to the Morrow formations to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Barbwire 9 State Com No. 1
9-17S-29E
1980' FNL & 660' FWL
Eddy County, NM

If anything further is needed regarding this issue, or if you have any questions, please feel free to contact the undersigned at 972-443-6489.

Yours truly,

A handwritten signature in cursive script that reads "Zeno Farris".

Zeno Farris
Manager, Operations Administration

Casing, Cementing, BOP, and Mud Details

Cimarex Energy Co. of Colorado

Barbwire 9 State Com No. 1

Unit Letter E Section 9

T17S – R29E Eddy County, NM

1. Cementing & Setting Depth:

13 $\frac{3}{8}$ " Surface

In 17 $\frac{1}{2}$ " hole, run 13 $\frac{3}{8}$ " 48# H-40 STC casing to 350.'

Cement with lead of 200 sx Halliburton Light Premium Plus + 0.125# Poly-e-flake + 1% CaCl₂ (wt 12.5, yld 1.97) and tail of 220 sx Premium Plus + 0.125# Poly-e-flake + 2% CaCl₂ (wt 14.8, yld 1.34)

9 $\frac{5}{8}$ " Intermediate

In 12 $\frac{1}{4}$ " hole, run 9 $\frac{5}{8}$ " 40# J-55 LTC casing to 3000.'

Cement with lead of 460 sx Interfill C + 0.125# Poly-e-flake (wt 11.9, yld 2.45) and tail of 200 sx Premium Plus + 1% CaCl₂ (wt 14.8, yld 1.33)

5 $\frac{1}{2}$ " Production

In 8 $\frac{3}{4}$ " hole, run 5 $\frac{1}{2}$ " 17# P-110 LTC to 10850.'

Cement with lead of 700 sx Interfill H + 0.125# Poly-e-flake + 0.25% HR-7 + 5# Gilsonite (wt 11.9, yld 2.49) and tail of 540 sx Super H + 0.5% Halad-344 + 0.4% CFR-3 + 1# Salt + 5# Gilsonite + 0.125# Poly-e-flake + 0.35% HR-7 (wt 13.0, yld 1.67).

Estimated TOC @ 2450

2. Pressure control Equipment:

A 13-3/8" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000# annular-type preventor. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. BOP unit will be hydraulically operated. BOP will be nipped up on the 9 5/8" casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

Casing, Cementing, BOP, and Mud Details

Cimarex Energy Co. of Colorado

Barbwire 9 State Com No. 1

Unit Letter E Section 9

T17S – R29E Eddy County, NM

3. Proposed Mud Circulating System:

Depth 0 – 350'

Mud Wt: 8.4-8.6

Viscosity: 28-30

Fluid Loss: NC

pH: 10.0-10.5

Type: Spud with fresh water spud mud. Add fresh water to control weight and viscosity and add paper to prevent seepage.

Depth: 350' – 3000'

Mud Wt: 9.7-10.0

Viscosity: 28-30

Fluid Loss: NC

pH: 9.5 – 10.0

Type: Drill with fresh water. If Basinal Sediment is encountered the well should be displaced with brine. Add lime to control pH and add paper in order to best control seepage. Sweep hole as needed.

Depth: 3000' - 8300'

Mud Weight: 9.8-10.0

Viscosity: 28-30

Fluid Loss: NC

pH: 9.5 – 10.0

Type: Drill with brine. Add lime to control pH and add paper in order to best control seepage. Add salt to help viscosity. Sweep hole as needed.

Depth: 8300' – 10000'

Mud Wt: 9.1-9.8

Viscosity: 28 – 29

Fluid Loss: NC

pH: 9.5 – 10.0

Type: Drill this interval with Brine to TD. At 10,000', mud up as needed.

Casing, Cementing, BOP, and Mud Details

Cimarex Energy Co. of Colorado

Barbwire 9 State Com No. 1

Unit Letter E Section 9

T17S – R29E Eddy County, NM

Depth: 10000' – 10850'

Mud Wt: 9.8 – 10.0 Brine

Viscosity: 29 – 45

Fluid Loss: 10-15

pH: 9.5 – 10.0

Type: Drill this interval with Brine to TD.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.