

Cementing and Mud Details
Cimarex Energy Co. of Colorado
Neo State Com No. 1
Unit Letter D Section 32
T25S - R26E Eddy County, NM
30.015.35263

1. Cementing & Setting Depth:

13 3/8" Surface

Set 250' of 13-3/8" H-40 48# ST&C casing. Cement with 220 Sx. Of Class "C" cement + additives, circulate cement to surface.

9 5/8" Intermediate

Set 2750' of 9-5/8" J-55 40# LT&C casing. Cement lead with 500 sx Class POZ/C Cement + additives and tail with 275 sx Class "C" + additives, circulate cement to surface.

5 1/2" Production

Set 12600' of 5-1/2" P-110 17# LT&C casing. Cement lead with 620 Sx. of Class POZ/C Cement + additives and tail with 500 Sx of Class "C". Estimated top of cement 1310'.

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.

3. Proposed Mud Circulating System:

Depth 0-250'

Mud Wt: 8.4-8.6

Viscosity: 30-32

Fluid Loss: May lose Circ

Type: Mud Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.

Depth: 250' - 2750'

Mud Wt: 9.7 - 10.0

Viscosity: 28 - 29

Fluid Loss: May lose circ.

Type: Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.

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Depth: 2750' - 8300'
Mud Weight: 8.4 - 9.9
Viscosity: 28 - 29
Fluid Loss: NC
Type: Fresh water. Paper for seepage. Lime for pH (9 - 9.5)

Depth: 8300' - 10000'
Mud Wt: 8.45 - 8.9
Viscosity: 28 - 29
Fluid Loss: NC
Type: Cut brine. Caustic for pH control.

Depth: 10000' - 12600'
Mud Wt: 8.9 - 9.7
Viscosity: 29 - 45
Fluid Loss: NC
Type: XCD Polymer mud system.

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.



Cimarex Energy Co. of Colorado

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December 1, 2006

Oil Conservation Division
District II Office
1301 W. Grand Ave.
Artesia, New Mexico 88210
Attn: Mr. Bryan Arrant

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

Dear Mr. Arrant:

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 formation to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Neo State Com No. 1
660' FNL & 760' FWL
D-32-25S-26E
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