# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

# 5. Lease Serial No. NMNM92160

SUNDRYN	OTICES WIL	KEPUK 13	ON WELL	LO
Do not use this	form for prop	osals to drill	or to re-en	iter an
abandoned well.	Use form 316	0-3 (APD) fo	r such pro	posals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

6.	If Indian, Allottee or	Tribe Name	

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  ☐ Gas Well ☐ Other				8. Well Name and No. CHOSA DRAW 27 FEDERAL 3	
2. Name of Operator	Contact: NA	TALIE E KRUEGER	9. API Well N		
CIMAREX ENERGY CO OF C				7180-00-X1	
3a. Address 600 E MARIENFELD ST SUITE 600 MIDLAND, TX 79701		. Phone No. (include area code) h: 432-620-1936 k: 432-620-1940		Pool, or Exploratory IWOOD DRAW	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)		11. County or	Parish, and State	
Sec 27 T25S R26E SESE 248	BOFSL 850FEL		EDDY C	DUNTY, NM	
12. CHECK APPE	ROPRIATE BOX(ES) TO IN	DICATE NATURE OF 1	NOTICE, REPORT, OR	OTHER DATA	
TYPE OF SUBMISSION		TYPE OI	FACTION		
Notice of Intent	☐ Acidize	Deepen	Production (Start/Res	ıme) 🔲 Water Shut-Off	
<del>-</del>	Alter Casing	☐ Fracture Treat	Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	□ New Construction	Recomplete	Other	
☐ Final Abandonment Notice	Change Plans	Plug and Abandon	☐ Temporarily Abandon		
13. Describe Proposed or Completed Op	Convert to Injection	Plug Back	☐ Water Disposal		
following completion of the involved testing has been completed. Final Al determined that the site is ready for f Cimarex is eliminating the fibe instead as outlined below:  Drill 8.75 inch hole to 8570 an 8567 with Lead: 810 sks 50:5 D130, 11.8 ppg, Yield 2.59 an 15.6 ppg, Yield 1.22(50% exc Set cement kickoff plug with 4 kickoff @ 8637 to drill lateral t TVD). Drill well to TD (13000	pandonment Notices shall be filed of inal inspection.)  Perglass portion of the casing partial log up to intermediate @ 1 0 Poz:H + 5% D44 + 10% D2 d Tail: 300 sks H + 0.08 gal/less) TOT @ 7500' TOC surful log sx Class H, wt 17, yld 0.9 oward the west. Land curve MD, 9467 TVD). Run 4.5 incommon line inspection.	plan and will run a cement 766. Run and cement 7 is 220 + 0.2% D46 + 0.5% D sk D177 + 3% D174 + 0.4 ace. Drill through 7 inch t	ing reclamation, have been contend liner  nch casing to 79 + 3pps D42 + 0.25 pp % D167 + 0.2% D46, o 10250 and log.  plug and 945 MD/9555 n liner hanger @ TTA	s A A A A A A A A A A A A A A A A A A A	
	Electronic Submission #1039	CO OF COLÓRADO, sent	to the Carlsbad	, )	
Name (Printed/Typed) NATALIE	E KRUEGER	Title REGUL	ATORY	:	
Signature (Electronic S		Date 03/09/2			
	THIS STAGE TOK	- LULIAL ON STATE		· · · · · · · · · · · · · · · · · · ·	
Approved By CHRISTOPHER WA	ALLS	TitlePETROLE	UM ENGINEER	Date 03/24/2011	
Conditions of approval, if any, are attache ertify that the applicant holds legal or eq which would entitle the applicant to cond	uitable title to those rights in the sul uct operations thereon.	office Carlsba			
States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a crin statements or representations as to a	me for any person knowingly and matter within its jurisdiction	d willfully to make to any depa	rtment or agency of the United	
** BLM REV	ISED ** BLM REVISED **	BLM REVISED ** BLM	/ REVISED ** BLM RE	VISED ** D. 2000	

### Additional data for EC transaction #103941 that would not fit on the form

### 32. Additional remarks, continued

8500 to TD @ 13000. BTC from 8500-10050 and BTC from 10050-13000. Cement with 400 sx 50:50 Poz:H + 2% D20 +0.2% D112 + 0.2% D65, Yield 1.24, 14.58 ppg (15% excess).

## CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Cimarex Energy Co. of Colorado

LEASE NO.: | NM-92160

WELL NAME & NO.: | Chosa Draw 27 Federal #3 SURFACE HOLE FOOTAGE: | 2480' FSL & 850' FEL

LOCATION: Section 27, T. 25 S., R 26 E., NMPM

COUNTY: Eddy County, New Mexico

### I. DRILLING

## A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

## **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling out the surface shoe. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Critical cave/karst.

Possible lost circulation in the Delaware formation.

Possible abnormal pressures in the Wolfcamp formation.

- 1. The 13-3/8 inch surface casing shall be set at approximately 375-440 feet and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i.Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every third joint unless lateral doglegs require greater spacing between centralizers.

- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
  - Cement should come to the top of liner. If cement does not come to the top of the liner, contact the appropriate BLM office.. 100 foot overlap required.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

### C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line with Serial #78598 from BOP to choke manifold. Check condition of 4" flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. Anchor requirements to be onsite for review. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips or where the float does not hold, the minimum wait time before cut-off is eight hours after bumping the plug or when the cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. BOP/BOPE testing can begin after the above conditions are satisfied.
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
  - c. The results of the test shall be reported to the appropriate BLM office.

- d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
- f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Proposed mud weight may not be adequate for drilling through Wolfcamp.

### E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

### F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**CRW 032411**