Form 3160-5 (November 1994)

UNITED STATES DEPARTMENT OF THE INTERIOR OCD Artesia **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0135 Expires July 31, 1996

Lease Serial No.

NM-14124

SUNDRY NOTICES AND REPORTS ON WELLS

	not use this form for propos doned well. Use form 3160			6. If h	ndian, Allottee or Tribe Name				
	IPLICATE • Other instruction			7. If t	Init or CA/Agreement, Name and/or No				
1. Type of Well Oil Well X Gas Well	Other			8 We	ell Name and No	-			
2. Name of Operator					Marquardt 1 Federal 13				
Cimarex Energy Co. of Colorado		7		9. AP	l Well No.				
a. Address	3b. Phone No. (includ	le area code)	30-0)15-37382	_				
PO Box 140907; Irving, TX 75014	-0907	972-401-3111		10. Fie	ld and Pool, or Exploratory Area				
Location of Well (Footege, Sec., T., R., M.	, or Survey Description)			Blac	k River; Delaware				
150 FSL 1650FEL	-			11. Co	unty or Parish, State				
Section 1-T25S-R26E				Edd	y County, NM	_			
12. CHECK APP	PROPRIATE BOX(ES) T	O INDICATE NAT	URE OF NOTIC	E, REPO	ORT, OR OTHER DATA				
TYPE OF SUBMISSION	T	YPE OF ACTION			_				
X Notice of Intent	Acidize Alter Casing	Deepen	Production (Start/	Resume)	Water Shut-Off Well Integrity				
Subsequent Report	Casing Repair	New Construction	Recomplete		X other Permit extension	_			
. <u> </u>	Change Plans	Plug and Abandon	Temporanly Aband	nob		_			
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal			_			
13. Describe Proposed or Completed Operation	on (clearly state all pertinent details,	included estimated starting	date of any proposed w	ork and appro	oximate duration thereof.				
If the proposal is to deepen directionally or			•						
Attach the bond under which the work will	he performed or provide the Bond N	lo on file with RIM/RIA D	antirod cubecquant roce	ete chall ha fi	lad within 30 days				

The APD for this well is due to expire on 11/05/11. Cimarex requests an extension due to rig scheduling.

following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has

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(Instructions on reverse)

determined that the site is ready for final inspection.)

Accepted for record NMOCD /

	·			ENDING				
14. I hereby certify the	t the foregoing is true and correct						===	
Name (Printed/Typ	ped)	Title		l				
Carolyn Lars	Regulatory Analyst							
Signatura	hn-Larson	Date November	· 4, 201	11				
	## THIS SPACE FO	R FEDERAL OR STA	TE OFF	ICE USE				
Approved by	/s/ Don Peterson		Title	FIELD MANAGER	Date	FEB	1	2012
Conditions of Approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CA	RLSBAD FIELD OFFICE				-	
	n 1001, makes it a crime for any person knowingly and or representations as to any matter within its jurisdiction		epartmen	t or agency of the United States	any fals	e, fictitiou	s or	-

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Cimarex Energy Co. of Colorado

LEASE NO.: | NM-14124

WELL NAME & NO.: Marquardt 1 Federal 13
SURFACE HOLE FOOTAGE: 0150' FSL & 1650' FEL
BOTTOM HOLE FOOTAGE 0330' FNL & 2080' FEL

LOCATION: Section 1, T.25 S., R.26 E., NMPM

COUNTY: Eddy County, New Mexico

The previously approved Conditions of Approval for the approved APD dated 11/05/2009 still apply. Any additions to the originally approved COAs will be addressed below.

⊠ Drilling

H2S requirements Logging requirements Waste Material and Fluids

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.

Medium cave/karst.

Possible lost circulation in the Delaware.

- 1. The 9-5/8 inch surface casing shall be set at **approximately 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.
- 2. The minimum required fill of cement behind the 7 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 concerns. Additional cement will be needed as excess cement calculates to a negative 8%.

- 3. The minimum required fill of cement behind the 4-1/2 inch production casing is:
 - Cement not required using Peak System completion assembly. Completion assembly to be set a minimum of 100' inside 7" casing.

Contingency Casing Plan For Surface Casing

- 4. The 13-3/8 inch surface casing shall be set at approximately 370 feet and cemented to the surface. Additional cement may be required as the excess calculates to less than 50%.
 - 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 action will be done prior to drilling out that string.
- 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. Operator installing 5M system and testing as 3M.

- 3. 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. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - 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. Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.

D. DRILL STEM TEST

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

E. 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.

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