•Form 3160-5 (November 1994)

SHL 2310 FNL & 660 FEL

BHL 2310 FNL & 330 FWL

## **UNITED STATES** DEPARTMENT OF THE INTERIOR

23-16S-29E

OCD-AF	TESIA

FORM APPROVED OMB No 1004-0135

2TV		Expi	res	July	31,
	_			-	

11. County or Parish, State

Eddy County, NM

	BUREAU OF LAND	MANAGEMENT	OCD-Ar	TICOLA B	Expires July 31, 1996	
<b>)</b>	SUNDRY NOTICES AND Do not use this form for propo abandoned well. Use form 3160	sals to drill or to re-enter		6. If Indian,	311 Allottee or Tribe Name	
	SUBMIT IN TRIPLICATE - Other instruction	ons on reverse side		7. If Unit or (	CA/Agreement, Name and/or N	D.
Type of Well     Oil Well	Gas Well Other			8. Well Nam	ne and No.	
2. Name of Operator		High Lonesc	me 23 Federal No. 1			
Cimarex Energy	y Co. of Colorado	,		9. API Well	No.	
3a. Address		3b. Phone No. (include are	ea code)	30-015-359	34	
5215 N. O'Conr	nor Blvd., Ste. 1500; Irving, TX 75039	972-401-3111		10. Field and	Pool, or Exploratory Area	
4. Location of Well (Foo	otage, Sec., T., R., M , or Survey Description)			County Line	Tank; Abo	

12. CHECK APP	ROPRIATE BOX(ES)	TO INDICATE NAT	URE OF NOTICE, REPO	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION			
Notice of Intent	Acidize Alter Casing	Deepen	Production (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplete Temporarily Abandon	Other
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days 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 determined that the site is ready for final inspection.)

Set 13%" casing @ 362' in 17%" hole. Set 9%" casing @ 2690' in 12%" hole. Reached TD of 8%" hole (7545'). Logged, decided to plug per the following procedure:

Plug Depth	Plug Length	<u>Tag?</u>	Plug Description
0-60'	60' Class C	N	Surface
300-510'	210' Class C	Υ	Surface casing shoe & top of salt @ 460'
880-990'	110' Class C	Υ	Bottom of salt @ 940'
2610-2740'	130' Class C	Υ	Intermediate casing shoe plus excess
3970-4110'	140' Class C	Υ	Top of Glorieta @ 4060'
5985-6145'	160' Class C	Υ	Top of Abo Shale @ 6095'
7300-7545'	245' Class C	Υ	BH plug & top of Wolfcamp @ 7395'

7		SEE ATTACHED FOR
<ol> <li>I hereby certify that the foregoing is true and correct Name (<i>Printed/Typed</i>)</li> </ol>	Title	CONDITIONS OF APPROVAL
Natalie Krueger	Regulatory	Analyst
Signature	Date	
Watalinghueon	May 29, 20	09
THIS SPACE FOR	FEDERAL OR STA	TE OFFICE USE
Approved by Rom D. Hall		Peroleum Engineer Pate MAY 2 9 2009
Conditions of Approval, if any, are attached. Approval of this notice does not wa certify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct operations thereon.		Office CFO

fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 . (November 1994)

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

	FORM APPROVED
780	OMB No. 1004-013
D-ARTESIA Le	Expires July 31, 199
5.7 Le	ase Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

NM-0556811
6 If Indian, Allottee or Tribe Name

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

SU	BMIT IN TRIPLICATE - Other instruct	tions on reverse side	
1. Type of Well Oil Well Gas	Well Other		8. Well Name and No.
2. Name of Operator			High Lonesome 23 Federal No. 1
Cimarex Energy Co.	of Colorado		9. API Well No.
3a. Address		3b. Phone No. (include area code)	30-015-35934
5215 N. O'Connor B	lvd., Ste. 1500; Irving, TX 75039	972-401-3111	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage,	Sec., T., R., M., or Survey Description)		County Line Tank; Abo
SHL 2310 FNL & 660	FEL 23-16S-29E	•	11. County or Parish, State
BHL-2310-FNL-&-330	).FWI		Eddy_County,_NM
12. CH	ECK APPROPRIATE BOX(ES)	TO INDICATE NATURE OF NO	TICE, REPORT, OR OTHER DATA
TYPE OF SUBMIS	SION	TYPE OF ACTIO	N
Notice of Intent	Acidize Alter Casing	Deepen Production (S	Start/Resume) Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction Recomplete	Other set surface &
	Change Plans	Plug and Abandon Temporarily A	Abandon intermediate casing, prep
Final Abandonment No	otice Convert to Injection	Plug Back Water Dispos	to plug
If the proposal is to deeper Attach the bond under whic following completion of the	n directionally or recomplete horizontally, give such the work will be performed or provide the Bore involved operations. If the operation results in ed. Final Abandonment Notices shall be filed on	ails, included estimated starting date of any propulsor and measured and true vertically on file with BLM/BIA. Required subseque a multiple completion or recompletion in a new fully after all requirements, including reclamation, here	cal depths of all pertinent markers and zones int reports shall be filed within 30 days interval, a Form 3160-4 shall be filed once
•	ed 17½" hole.		
CaCl <sub>2</sub> ( surfac	(wt 13.5, yld 1.75) and <u>Tail</u> 220 sx F e. WOC 26.75 hrs.	Premium Plus Class C + 2% CaCl <sub>2</sub> (w	Premium Plus Class C + 4% Bentonite + 2% t 14.8, yld 1.35). Circulated 10 sx cement to
	rre-tested surface casing to 1000 ps		
+ 3# G			WCO Light Prelium Plus + 2% $CaCl_2 + 3\%$ Salt /t 14.8, yld 1.34). Circulated 80 bbls cement
05.22.09 Pressu	re-tested casing to 1000 psi for 30	minutes.	
05 20 00 Poach	ed TD of 83/" hale (7545") Lagged	decided to plug. Separate MOLPA	undry is forthcoming

ACCEPTED FOR RECORD 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Hetroleum Engineer Regulatory Analyst Natalie Krueger Signature Date 10 2009 JUN May 29, 2009 THIS SPACE FOR FEDERAL OR STATE OFFICE USE BUREAU OF LAND MANAGEMENT Title Approved by CARLSBAD FIELD OFFICE Conditions of Approval, if any, are attached Approval of this notice does not warrant or Office 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.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



"Natalie Krueger" <nkrueger@cimarex.com> 05/29/2009 10:09 AM To <Wesley\_Ingram@blm.gov>

СС

·bcc .

Subject High Lonesome 23 Fed 1 PA

Hi Wesley,

Sundries for casing and NOI PA. Is Class C all right for all plugs? We will follow up with original + 5 for both sundries.

Here is the email for the wellsite. Wellsite24@cimarex.com

Thanks, ··· Natalie

Cimarex Energy Co.

Regulatory Department

5215 N. O'Connor Blvd., Ste. 1500 / Irving, TX 75039

Phone 469-420-2723

Fax 972-443-6486





3160-5 High Lonesome 23 Fed 1 surf int pdf 3160-5 High Lonesome 23 Fed 1 NOI PA pdf

High Lonesome 23 Federal #1 30-015-35934 Cimarex Energy Co. of Colorado May 29, 2009 Conditions of Approval

## **Plugging Procedure:**

- 1. Notify BLM at 575-361-2822 a minimum of 4 hours prior to starting work.
- 2. A Subsequent sundry is to be submitted with actual work done.
- 3. Plug 1-7300-7545' Class C neat. Tag plug at 7300' or shallower. Top of Wolfcamp at 7395'.
- 4. Plug 2 5985-6145'. Class C neat. Tag plug at 5985' or shallower. Top of Abo Shale at 6095'.
- 5. Plug 3 3970-4110' Class C neat. Tag plug at 3970' or shallower. Top of Glorieta at 4060'.
- 6. Plug 4 2610-2740'. 9-5/8" Intermediate shoe plug. Class C neat. Tag at 2610' or shallower.
- 7. Plug 5 880-990' Base of Salt plug. Class C neat plug tagged at 880' or shallower.
- 8. Plug 6-300-510'-13-3/8" Surface shoe & top of Salt plug. Class C neat tagged at 300' or shallower.
- 9. Plug 7 0-60' Surface plug. Class C neat.

**RGH & DHW 052909** 

Tops for High Lonesome 23 Fed 1H

13-3/8" @ 362' and circulated to surface 9-5/8" @ 2690' and circulated to surface

		* /
Glorietta		3958'
Yeso Paddock		4329'
Yeso Tubb	•	5328'.
Abo Shale	9 2	5950'
Abo	•.	6035'
Wolfcamp		7380'

Operator had no salt tops – will need to use ArcMap and find nearby wells.

Scott with Cimarex 575-390-2579 e-mail: Wellsite24@cimarex.com

Pilot Hole 934 to \$ 7600'

TS: 460 P:23-165-29E

575 3822

# BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

#### Permanent Abandonment of Federal Wells Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

- 2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.
- 3. <u>Blowout Preventers</u>: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; an 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.
- 4. <u>Mud Requirement</u>: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon. **Fresh water mud base to be used in fresh water zones.**
- 5. <u>Cement Requirement</u>: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C" for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

- 6. <u>Dry Hole Marker</u>: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).
- 7. <u>Subsequent Plugging Reporting:</u> Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**
- 8. <u>Trash:</u> All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.

WWI 012609\*



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

Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220

### Interim Reclamation Procedures for Permanently Abandoned Federal Wells

- 1. After Subsequent Report of Abandonment, Form 3160-5, is filed and approved by the BLM the surface protection specialist (SPS) will conduct a surface inspection of the abandonment. The SPS will establish the reclamation requirements the operator will need to complete. **DO NOT START RECLAMATION UNTIL THE SPS HAS INSPECTED THE LOCATION.**
- 2. The reclamation requirements will be given to an environmental protection specialist (EPS). The EPS will issue the operator a Notice of Written Order outlining the reclamation requirements. **DO NOT START RECLAMATION UNTIL A NOTICE OF WRITTEN ORDER FOR RECLAMATION HAS BEEN RECEIVED.** The EPS will be responsible for all further abandonment work and inspections.
- 3. Notification: CONTACT THE EPS 3 DAYS PRIOR TO RECLAMATION WORK. This notification gives the EPS an opportunity to discuss by phone or on location the reclamation requirements, any special concerns and the timeframes. It also allows the EPS an opportunity to witness various aspects of the reclamation work to determine if an adequate seedbed has been prepared and all reclamation requirements have been completed. CONTACT THE EPS AT LEAST 3 DAYS PRIOR TO SEEDING. This allows the EPS to witness the seeding operation to make sure the location is seeded properly and with the appropriate seed mixture. DO NOT START RECLAMATION UNTIL THE EPS HAS BEEN NOTIFIED.
- 4. After reclamation work has been completed, submit the I & E copy of the Notice of Written Order to the BLM. It will need to be signed by a company representative and dated. Also submit one original and five copies of the Final Abandonment Notice, Form 3160-5. The report should state that all reclamation work has been completed, and the location is ready for a final abandonment inspection.
- 5. The BLM will continue to monitor the location to ensure the location vegetates successfully, and salts from the reserve pit do not leach to the surface. The location will be monitored until such time as vegetation (20%) is established evenly across the location (including the reserve pit and access road). Once EPS determines that vegetation (20%) is evenly spread across the location, final abandonment will be authorized.

If there are any questions please feel free to contact any of the following:

Jim Amos Supervisory Environmental Protection Specialist (575) 234-5909

Cody Layton Natural Resource Specialist (575) 234-5959

Todd Suter
Surface Protection Specialist (575) 234-5987

Trishia Bad Bear Natural Resource Specialist – Lea County (575) 393-3612 Terry Gregston Environmental Protection Specialist (575) 234-5958