

OCD-ARTESIA

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 07 2007

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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.

5. Lease Serial No.

NM-100845

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

MOOSE 23 FEDERAL #1

9. API Well No.

30-015-25332

10. Field and Pool, or Exploratory Area

CROW FLATS WOLFCAMP

11. County or Parish, State

EDDY, NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well

☐ Oil Well☒ Gas Well☐ Other

2. Name of Operator

COG Operating LLC

3a. Address

550 W. Texas Ave., Suite 1300 Midland, TX 79701

3b. Phone No. (include area code)

432-685-4340

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1665' FSL & 976' FWL

Section 23

T-16S, R-28E

Unit L

1650' FSL & 330' FEL

Section 23

T-16S, R-28E

Unit I

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Request to skid rig
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate 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.)

COG Operating LLC re-entered this plugged well 7-20-07. Drilled out plugs to 4397'. Lost circulation occurred while mudding up. Ran temperature & flow log that showed hole in casing @ 158'. Set composite BP @ 210'. Attempted to squeeze surface casing leak by pumping 4 squeeze jobs with a total of 800 sx cement with no success.

COG Operating LLC proposes to re-plug & abandon the well as follows:

Drill out composite BP @ 210'.

Spot 50 sx C cement plug from 1520' - 1420'. Tag plug @ 1420'.

Spot 100 sx C cement plug from 325' - 225'. Tag plug @ 225'.

Spot 100 sx C cement plug from 225' - 0'. Tag plug @ surface.

Install dry hole marker.

COG Operating LLC respectfully requests permission to skid the rig 50' - 100' East, extend the existing pad & drill another 2 AMOS #1Y. APD to follow.

APPROVED

AUG 4 2007

SUPERVISOR-EP5

OK C.I. 8/1/07

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

John Coffman

Title

Drilling Supt.

Signature

Date

07/27/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

Accepted for record
NMOCD

Moose 23 Federal # 1

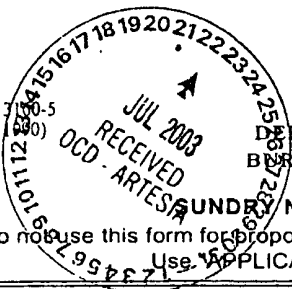
Plugging Procedure

- 1) Drill out composite BP @ 210', TIH with 4-1/2" DP to +-1520', R/U BJ Services, Spot balanced plug f/ 1520' to 1420' as follows:
 - a) 20 BFW
 - b) 12 bbls. slurry (50 sx. "C" + 2% CACL2)
 - c) 20 BFW
- 2) TOH w/ 4-1/2" DP & WOC 4 Hrs
- 3) TIH w/ 4-1/2" DP, Tag plug @ 1420', TOH to 325'.
- 4) R/U BJ Services, Spot balanced plug f/ 325' to 225' as follows:
 - a) 20 BFW
 - b) 24 bbls. slurry (100 sx. "C" + 2% CACL2)
 - c) 3.0 BFW
- 5) TIH w/ 4-1/2" DP, Tag plug @ 225'
- 6) R/U BJ Services, Spot balanced plug f/ 225' to 0' as follows:
 - a) 20 BFW
 - b) 24 bbls. slurry (100 sx. "C" + 2% CACL2)
 - c) .50 BFW
- 7) Tag plug @ surface.

7/27/07

Accepted for record
NMOCD

Form 3100-5
(June 1990)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

UNDER NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1 Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2 Name of Operator

Mack Energy Corporation

3 Address and Telephone No.

P.O. Box 960, Artesia, NM 88211-0960

(505)748-1288

4 Location of Well (Footage, Sec., T R, M or Survey Description)

1665 FSL & 976 FWL, Sec. 23 T16S R28E, L

5. Lease Designation and Serial No

NM-100845

6 If Indian, Allottee or Tribe Name

7 If Unit or CA, Agreement Designation

8 Well Name and No.

Moose Federal #1

9 API Well No.

30-015-25332

10. Field and Pool, or Exploratory Area

Crow Flats Wolfcamp

11 County or Parish, State

Eddy, NM

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Mack Energy Corporation plugged well as follows:

06/10/2003 Spot 35 sx plug @ 6503', spot 35 sx Class C @ 6379', spot 50 sx plug @ 4503', spot 50 sx Class C 6% CC @ 1510', tag @ 1504', spot 35 sx Class C 4% CC @ 1504', spot 50 sx Class C 6% CC @ 322', no tag, spot 50 sx Class C 6% CC @ 322'.
06/11/2003 RIH tag @ 297', spot 50 sx Class C 6% CC, tag @ 170', spot 50 sx Class C 6% CC, tag @ 90', spot 50 sx Class C 2% CC circulate to surface. Install dry hole marker.

Approved as to plugging of the well bore,
Liability under bond is retained until
surface restoration is completed.

Accepted for record
NMOCD

14. I hereby certify that the foregoing is true and correct

Signed

Alexis C. Swohoda

Title

Production Analyst

Date

7/14/03

(This space for Federal or State office use)

Approved by

(ORIG. SGD.) ALEXIS C. SWOHODA

Title

PETROLEUM ENGINEER

Date

JUL 21 2003

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.

*See Instruction on Reverse Side

Report #	6	Prop TD		County	Eddy	State	NM	Rig	Patterson # 74	AFE #	
Depth	4,397	GL	3,756.0	Co Supv	Rick E. Graham			Phone	432-634-2881	AFE-DH	
TVD	4,397	KB corr		Phone	432-553-0176			Rig Supv	Andy Diez	AFE-Test	
Footage	0	Ft/Hr		Lithology				Phone	432-634-9244	AFE-Comp	
Present Operations / Executive Summary								Rig Supt	Cooney Phillips	AFE-Total	
Sqz. Surf. Csg. Leak, Rig up cement bulk truck.								Phone	432-634-3785		
WOC , Tag cmt @ 148' , drill out @ 160' , Test to 500#-failed , order cement , circ well W/fresh water ,2nd sqz. pump 100 sx thix followed by 100 sx tail "C" + additives , WOC , tag and drill @ 150-160',test @ 500#-failed , order cement & rig up same										Working Int	
										Net Int	

Mud		Mud Company:				MI		Mud Engineer:				Fred Flores			
Mud Type	M W	ECD	Vis	PV	YP	Gel-Initial	Gel-10 min	Cake	WL	Solids	% Oil	% Water	Mud Losses		
cut brine salt gel	9.2		32	4	9	3	7	1/32	11.6	1.40	0.00	98.60	200		
pH	Pm	Pf	Mf	CL	CA	LCM	Washout(%vol)	Hole Vol	Pit Vol	Stored Vol	Min To Bit	Btms Up	Full Circ		
9.5		.05	.1	101,000	1440	5-7		300	500	150					

Drill Pipe & Collars (top to bottom)								Kelly Down:	Casing							
# Jts	Length	Size	Wt	ID	Type	Grade	Ann Vel	Size/Date	Top (MD)	Btm (MD)	Btm (TVD)	Wt	Grade	TOC	ShoeTest	
								9.625	0	275	275	43	J-55	0	no	

Bit

#	In @	Out @	Size	Mfg.	Type	Serial #	Jets / TFA	RPM	WOB	BHA Eff	Feet/Ttl	Hrs/Ttl	Ft/Hr	Bit HP
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Bit**Grade**

String Loads	Hook Load	Drag Up (+)	Drag Down (-)	Max Allowed	Torque	Gas	Bkgd Gas	Conn Gas	Trip Gas	Max Gas	Max At @

Pumps						Deviation >>>			Depth	Angle	Direction	TVD	N/S	E/W	Dog Leg
Make/Model	PSI	Stroke	Liner	SPM	Eff.	GPS	GPM	SPR							
GDP28	0	8	6.00	0.0	85%										
GDP28	350	8	6.00	90.0	85%	4.1									

End	Hrs	Code	Daily Operations 6:00 am - 6:00 am									
8:30 am	2.50	13	Wait on cement									
9:30 am	1.00	6	TIH with 8.5" bit and collars- tag at 148'									
10:30 am	1.00	2	Drilling cement and check for losses-no fluid loss at all									
12:00 pm	1.50	23	close hydriil & pressure test squeeze- no test , 500# and bleeds off to 0# in 10-15 seconds									
2:00 pm	2.00	23	rig up BJ and establish rates and pressures for next squeeze-order cement									
5:00 pm	3.00	23	wait on cement to arrive									
6:00 pm	1.00	18	2nd Squeeze cement / 100sx Thix + 100 sx tail "C" + additives @ 400# down to 100#									
10:00 pm	4.00	13	Wait on cement									
11:00 pm	1.00	6	TIH and tag cement at 150'									
12:30 am	1.50	2	Drilling cement 150' to 165'- tag plug at 210'									
1:00 am	0.50	23	test squeeze to 500#-failed , leaks off in 5 seconds									
1:15 am	0.25	23	Get rate and pressure with BJ pump- order cement									
5:45 am	4.50	23	waiting on BJ bulk cement truck									
6:00 am	0.25	23	spot and rig up cement bulk truck									

Accepted for record
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Additional Comments				Mud / Chemical Used Today				
Drill out cement after first cement spot at 148' to 164'. Would not hold pressure but circulates just fine-no losses.Establish rates / pressures of .75bbl/min & 175# , 1.5BPM & 275# , 2.0 BPM & 440# . Cement next stage with 100sx Thixotropic @ 14,8 ppg followed by 100 sx "C" + 2% CaCl2+5pps gilsonite+1/8pps celloflake .(same as first plug).Wait to set up , tag at 150' and drill to 160' , tag composite plug at 210' then test squeeze to 500# and failed.Get rates and pressures again and order cement.rate= 440# @ 2bpm breaking down to 2bpm at 300# and stabil. Order cement.								
				Crews				
				Morning	Day	Evening	Relief	
				4	5	5	0	
				Diesel		Today	Total	
				Delivered:			0	
				On Hand:		450		
				Used:			-450	
				Ton Miles				
Line on Spool: Ft. / Size								
Ton Miles: Current / Total								
Line Cut: Today / Total								
Expenses				Expenses by Category				
Category	Company / Vendor	Description	Cost	Category	Cost			
209 - Daywork Contract.		rig	16,000.00	209 - Daywork Contract.	16,000.00			
211 - Fuel & Power		diesel	1,125.00	211 - Fuel & Power	1,125.00			
212 - Water	apsi	5-fresh & 3-brine	3,280.00	212 - Water	3,280.00			
220 - Cement Squeeze		stnd-by + cement	12,000.00	220 - Cement Squeeze	12,000.00			
227 - Contract Supervision	Oil & Gas Consulting	consulting	1,000.00	227 - Contract Supervision	1,000.00			
236 - Rentals - Subsurface		drill pipe / wait pipe	4,000.00	236 - Rentals - Subsurface	4,000.00			
	Pit Drill	BOP Test	BOP Drill	Tour (BOP)	PVT Check	AccidentsReportedToday?	Daily Cost	\$37,405.00
Last Tests: >>		7/21/2007					Cum. Cost	\$427,914.00

Accepted for record
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