

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

New Mexico Oil Conservation Division, District 8
16. French Drive
Hobbs, NM 88240
FORM REVISED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM-32409
2. Name of Operator Mack Energy Corporation		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 960 Artesia, NM 88210-0960	3b. Phone No. (include area code) (575) 748-1288	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T.R.M. or Survey Description) 2285 FNL & 380 FWL Sec. 28 T15S R30E		8. Well Name and No. Sam Federal #4
		9. API Well No. 30-005-29105
		10. Field and Pool or Exploratory Area Wildcat; San Andres
		11. Country or Parish, State Chaves, NM

12. CHECK THE 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 type="checkbox"/> Other _____
	<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 recompleat 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

1. POH w/pump and tubing.
2. Set CIBP @ 3650' w/35'.
3. Set 25sx plug @ 3000'(San Andres Top)
4. Set 25sx plug @ 1550'(BOS). WOC and tag.
5. Set 25sx plug @ 675'(TOS and surface casing shoe). WOC and tag.
6. RIH to 60' and circulate cement to surface.
7. Install Dry Hole Marker.

APPROVED FOR 3 MONTH PERIOD
ENDING NOV 29 2012

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Jerry W. Sherrell		Title Production Clerk
Signature <i>Jerry W. Sherrell</i>		Date 8/7/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /S/ DAVID R. GLASS	Title PETROLEUM ENGINEER	Date AUG 29 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 ROSWELL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for my 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)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APR 18 2013

MACK ENERGY CORPORATION

Sam Fed. #4

SEC 28, T15S, R30E

SHL: 2285' FNL & 380' FWL, BHL: 2285' FNL & 330' FEL

Well Information

Existing Casing: all depths are with 17.5' KB.

Hole	MD (ft)	Casing	Weight	Grade	Coupling	Comments
14 3/4"	0-588'	9 5/8"	36#	J-55	ST & C	Circ 175sx
8 3/4"	0-8418'	5 1/2"	17#	P-110	LT & C	Bottom of 5 1/2" @ 8008"
6 1/8"	8418-13091	4 1/2"	11.6#	HCP-110	Buttress	Circ. 350sx FO Cementer at 8008'

Production Casing: OD-5.5" ID-4.892" Drift-4.767" Burst-10,640psi, OD-4.5" ID-4.00"
Drift-3.875" Burst-10,690psi
PBSD-12,991'

Directional Plan

See Pathfinder Survey for more details.

Description	MD	TVD	Vertical Section	Inclination (degrees)	Max DLS	Comments
Kick-off point	8114'	8113'	-6.16'	0.70°		
End of curve	9145'	8787'	650'	86.98°	13.02	Max DLS in curve 13.02°/100' at 8254' MD Avg DLS-8.33°
TD	13091'	9042'	4587'	85.97°	4.16	Max DLS in VS 4.16°/100' at 10452' MD

Azimuth-90° (East)

Packers

ECP Top @ 8051', Bottom @ 8067'

Packer #	MD	TVD	Port Depth	Ball Size	Flush	Seat Size
1	12621', 12570'	9004'	POP at 12891'		262bbls	
2	12106'	8973'	12340'	2.75"	254bbls	2.625"
3	11600'	8930'	11839'	2.875"	246bbls	2.75"
4	11101'	8888'	11335'	3"	238bbls	2.875"
5	10637'	8867'	10872'	3.125"	231bbls	3"
6	10100'	8842'	10371'	3.250"	223bbls	3.125"
7	9606'	8808'	9839'	3.375"	215bbls	3.25"
8	9142'	8787'	9376'	3.5"	208bbls	3.375"

Existing Perfs

Perf #	Perfs	Phasing	# settings	# of shots
San Andres	3675'-3725'	180	17settings 2SPF	34holes

MACK ENERGY CORPORATION

Sam Fed. #4

SEC 28, T15S, R30E

SHL: 2285' FNL & 380' FWL, BHL: 2285' FNL & 330' FEL

Procedure

1. MIRU PU
2. POH w/ pump
3. NU BOP
4. POH w/ tbg
5. RU Schlumberger set CIBP w/ 35' cmt cap a 3650'
6. RIH w/ tbg.
7. Set 25sx plug @ 3000'. Covering top of San Andres
8. Set 25sx plug @ 1550'. Covering base of salt. Tag Plug
9. Set 25sx plug @ 675'. Covering top of salt and surface shoe. Tag Plug
10. RIH to 60'. Circulate cmt to surface
11. Install dry hole marker.

Note: ~~Circulate hole w/ fresh water gel.~~ All cmt plugs are figured w/ 14.8ppg w/ 1.34 yield class C cmt. *To Be Mixed w/ Fresh Water (63 Gal/Bact)*
25 Sacks (50# Each) Of Gel Per 100 Barrels Of Brine Water
Minimum 9# Per Gallon Mud.

BUREAU OF LAND MANAGEMENT
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201
(575) 627-0272

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 ninety (90) days from the approval date of this Notice of Intent to Abandon. If you are unable to plug the well by the 90th day provide the BLM Roswell Field Office (RFO), prior to the 90th day, with the reason for not meeting the deadline and a date when the BLM Roswell Field Office can expect the well to be plugged. Failure to do so will result in enforcement action. Unless the well has been properly plugged, the rig shall not be removed from over the hole without prior approval.**

2. **Notification:** Contact the BLM Roswell Field Office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, during office hours or after office hours call (575) 627-0205. Engineer on call during office hours phone (575) 627-0275 or phone (after hours) call (575) 626-5749.

3. **Blowout Preventers:** 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 9090 feet; a 3M system for a well not deeper than 13636 feet; and a 5M system for a well not deeper than 22727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at a rate of 25 sacks (50 pounds each) of gel-per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** 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 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 cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 50 feet 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 class "C" for up to 7500 feet of depth, mixed at 14.8 lbs./gal with 6.3 gallons of fresh water per sack or class "H" for deeper than 7500 feet plugs, mixed at 16.4 lbs./gal with 4.3 gallons of fresh water per sack.

6. **Monument:** Upon abandonment of the well, 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 covered with a metal plate at least ¼ inch thick and welded in place. The following information shall be permanently inscribed on the dry hole marker: Well name and number, the name of the operator, the lease serial number, the surveyed location (the quarter-quarter section, township and range or other authorized survey designation acceptable to the authorized officer; such as metes and bounds).

7. **Timing Limitation Lease Stipulation / Condition of Approval For Lesser Prairie-Chicken:** Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1 through June 15 annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D seismic operations, and pipeline, road, and well pad construction, will be allowed, except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

8. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to the BLM Roswell Field Office. 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.**

Following the submittal and approval of the Subsequent Report of Abandonment, a Notice of Intent for Final Abandonment with the proposed surface restoration procedure must be submitted for approval.