Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR . BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED

OMB N	O. 10)04-	0135	,
Expires:	July	31,	2010	

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. NMLC029406B

abandoned well. Use form 3160-3 (APD) for such proposals.			6. If Indian, Allottee or Tribe Name				
SUBMIT IN TRIPLICATE - Other instructions on reverse side.			7. If Unit or CA/Agree	ement, Name and/or No.			
1. Type of Well Gas Well Other				8. Well Name and No. GRACE MITCHELL B FEDERAL 11			
2. Name of Operator Contact: ROBERT CHASE MACK ENERGY CORPORATION E-Mail: JERRYS@MEC COM				9. API Well No 30-025-39412			
3a. Address P.O. BOX 960 ARTESIA, NM 88210	Address 3b Phone N P.O. BOX 960 Ph: 575-7			lude area code) 10 Field and Pool		Exploratory RAYBURG SA	
4. Location of Well (Footage, Sec., 1	4. Location of Well (Footage, Sec., T, R., M., or Survey Description)			<u>.</u>	11. County or Parish,	and State	
Sec 5 T17S R32E NESE 2310FSL 330FEL				e	LEA COUNTY, NM		
12. CHECK APP	ROPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHE	R DATA	
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION			
Notice of Intent	Acidize	Dee	pen	Product	ion (Start/Resume)	☐ Water Shut-Off	
_	. Alter Casing	□ Frac	cture Treat	Reclama	ation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	□ Nev	Construction	□ Recomp	lete	Other	
☐ Final Abandonment Notice	☐ Change Plans	□ Plu	g and Abandon	☐ Tempora	arily Abandon	_	
13. Describe Proposed or Completed Op If the proposal is to deepen direction	Convert to Injection	□ Plu		□ Water D			
MACK ENERGY WOULD LIK		BBS OCD		APPRO	OVED FOR 24 MC	NTH PERIOD	
		RECEIVE	D	ENDIN	$\frac{5/19/12}{}$	<u> </u>	
		MEG	Forgon	in Rem	rend Them	05/25/2011	
14. I hereby certify that the foregoing is	Electronic Submission #10	04467 verifie RGY CORPO		II Information			
Nome (Provided/Fee all) DEANIA MEANIER			JCTION CLE	RK			
Signature (Electronic Submission)		Date 03/16/2011					
·	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE US	E		
Approved By Lames G	? Omas 7.		Title FIELD	MANAC	ER	Date 7-5-1	
Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to condu	omCARLSBAD FIELD OFFICE						
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a citatements or representations as to	crime for any pe o any matter w	reon knowingly and	willfully to me	ke to any department or	agency of the United	

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PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:

MACK ENERGY

LEASE NO.:

NMLC 029406B

WELL NAME & NO.:

GRACE MITCHELL B FEDERAL #11

SURFACE HOLE FOOTAGE.:

2310' FSL & 330' FEL

BOTTOM HOLE FOOTAGE.:

LOCATION:

Section 5, T 17 S., R 32 E., NMPM

COUNTY: Lea County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

Special Requirements

Previous COAs approved with the original APD apply to this extension.

☑ Drilling

Onshore Order 6-H2S Requirements Logging Requirements Waste Material and Fluids

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

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Grayburg formation. 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. The record of the drilling rate along with the GR/N well log run from TD to surface 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.

Possible water and brine flows in the Salado and Artesia Group.

Possible lost circulation in the Grayburg and San Andres Formations.

- 1. The 8-5/8 inch surface casing shall be set at approximately 950 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) 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 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. 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 is installing a 3M system, but testing as a 2M.
- 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 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.

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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