

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
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

RECEIVED

DEC 31 2012

NMOCD ARTESIA

5. Lease Serial No.  
NMNM-118706

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
Black Cat Federal

9. API Well No.

#1 15-36042

1. Type of Well

☒ Oil Well

☐ Gas Well

☐ Other

2. Name of Operator

Mack Energy Corporation

3a. Address

P.O. Box 960 Artesia, NM 88210-0960

3b. Phone No. (include area code)

(575) 748-1288

10. Field and Pool or Exploratory Area

Red Lake; QU-GB-SA, Empire; Yeso

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

330 FSL & 1650 FWL Sec. 14 T17S R28E

11. Country or Parish, State

Eddy, NM

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

TYPE OF ACTION

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other Downhole Commingle

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.)

Mack Energy Corporation as operator respectfully requests approval to downhole commingle and measurement of production. It is requested that downhole commingling of Red Lake; QU-GB-SA and Empire; Yeso pools be approved for the following well: Black Cat Federal #1 (NMNM-118706) Sec. 14, T17S, R28E.

The tank battery is located in the SE/4 SW/4, Sec. 14 T17S R28E. Proper allocation for production will be done using the subtraction method based on increased production from the Red Lake; QU-GB-SA formation. This well has consistent daily production from the Empire; Yeso formation. Mack Energy has made notification to all parties owning an interest in this lease, including the oil purchaser, of the intent to commingle. Interests in all pools on this lease are common.

Mack Energy is currently producing the Black Cat Federal #1 in the Empire; Yeso and intend to re-complete the in the Red Lake; QU-GB-SA formation. At this time we are requesting approval to add the Red Lake; QU-GB-SA to this production.

**SUBJECT TO LIKE  
APPROVAL BY STATE**

Accepted for record  
NMOCD  
LRDade 1/4/13

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

Deana Weaver

Title Production Clerk

Signature

Deana Weaver

Date

11.5.2012

**APPROVED**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

DEC 28 2012  
BUREAU OF LAND MANAGEMENT  
CARLSBAD 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)

District I  
1621 N. French Drive, Hobbs, NM 88240

District II  
1301 W. Grand Avenue, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

### Oil Conservation Division

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☒ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

### APPLICATION FOR DOWNHOLE COMMINGLING

Mack Energy Corporation

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

Operator

Address

Black Cat Federal

1

N-14-17S-28E

Eddy

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 013837 Property Code 36948

API No. 30-015-36042

Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Red Lake; QU-GB-SA	Empire; Yeso	
PoolCode	51300	96210	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1970-3536"	3638-4999.5'	
Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A	37.8	
Producing, Shut-In or New Zone	New Zone	Producing	
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: _____ Rates: _____	Date: 7/31/2012 Rates: 3/13/14	Date: _____ Rates: _____
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or put production, supporting data or explanation will be required.)	Oil _____ % Gas _____ %	Oil _____ % Gas _____ %	Oil _____ % Gas _____ %

### ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐

Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other?

Yes ☒ No ☐

Will commingling decrease the value of production?

Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

Yes ☐ No ☐

NMOCID Reference Case No. applicable to this well: \_\_\_\_\_

### Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

### PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief

SIGNATURE Deana Weaver TITLE Production Clerk

DATE 11.1.12

TYPE OR PRINT NAME Deana Weaver

TELEPHONE NO. ( 575 ) 748-1288

E-MAIL ADDRESS dweaver@mec.com

## State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT I

1625 N. FRENCH DR., HOBBES, NM 88240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-36042	Pool Code 96210	Pool Name Empire; Yeso
Property Code 36948	Property Name BLACK CAT FEDERAL	Well Number 1
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3631'

## Surface Location

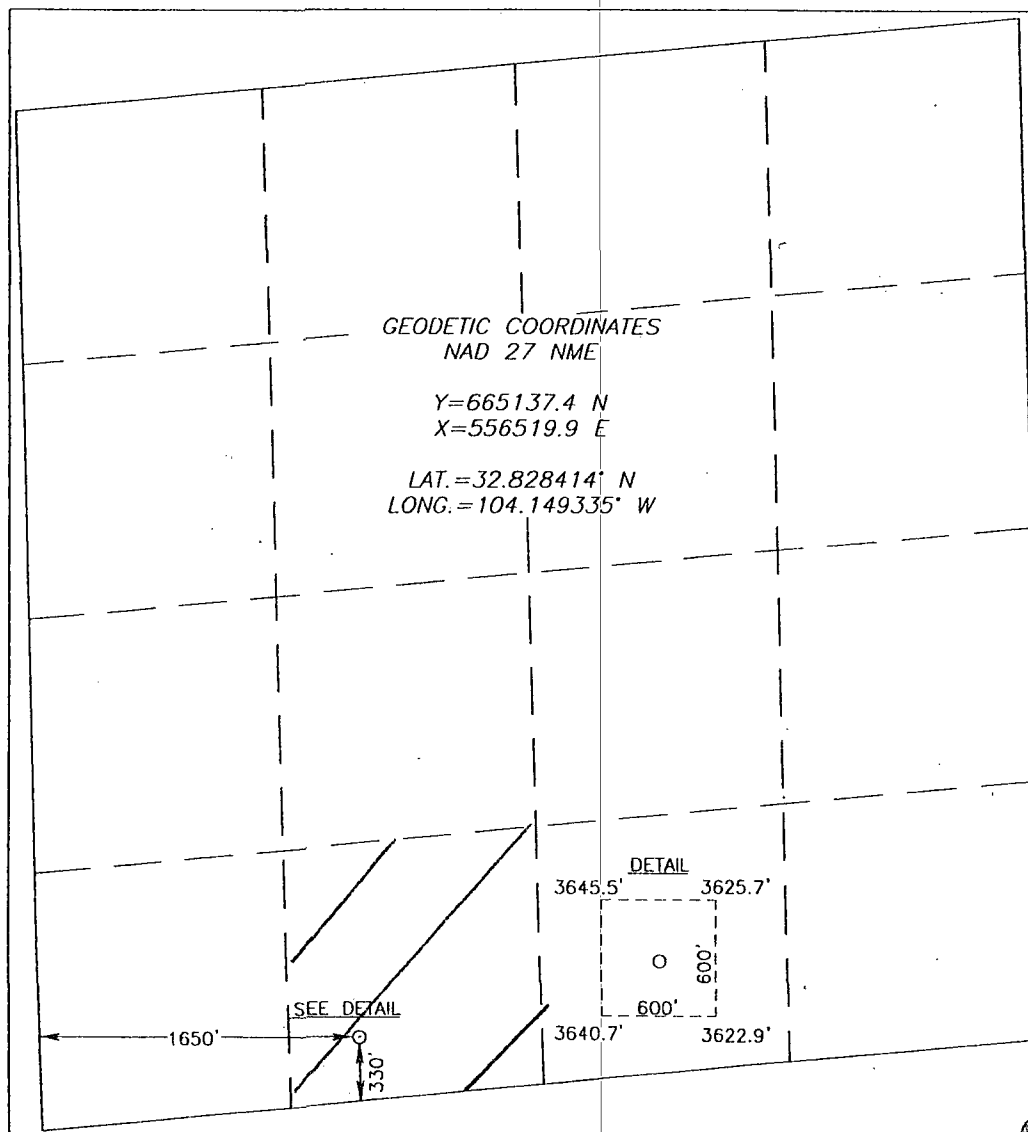
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	14	17-S	28-E		330	SOUTH	1650	WEST	EDDY

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



## OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Deana Weaver*  
Signature Date

Deana Weaver 11.1.12  
Printed Name

## SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 27, 2007

Date Surveyed AR  
Signature & Seal of Professional Surveyor

RONALD J. EIDSON  
NEW MEXICO  
3239  
10/09/07

Certificate No. GARY EIDSON 12641  
RONALD J. EIDSON 3239

SCANNED

## State of New Mexico

Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87605

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-36042	Pool Code 51300	Pool Name Red Lake; QU-GB-SA
Property Code 36948	Property Name BLACK CAT FEDERAL	Well Number 1
OGRID No. 013837	Operator Name MACK ENERGY CORPORATION	Elevation 3631'

## Surface Location

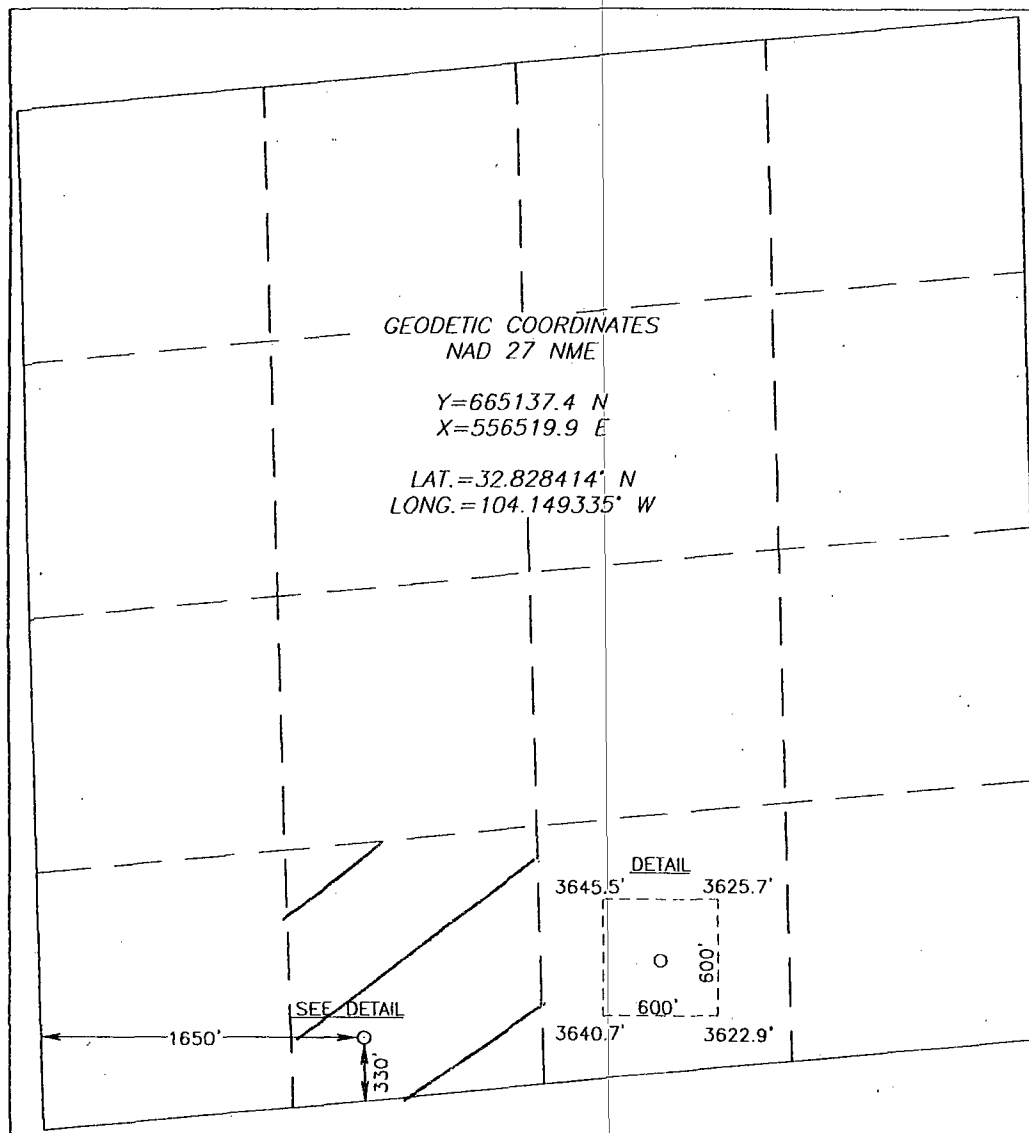
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Signature Deana Weaver Date 11.1.12  
Printed Name Deana Weaver

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I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 27, 2007

Date Surveyed \_\_\_\_\_ AR  
Signature and Seal of Professional Surveyor

NEW MEXICO  
3239  
RONALD J. EIDSON  
10/09/07

Certificate No. GARY EIDSON 12641  
RONALD J. EIDSON 3239

SCANNED

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## MEMO

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DATE: October 30, 2012

TO: Bureau of Land Management  
NMOCD

FROM: Travis K. Lanning

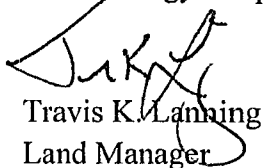
RE: Black Cat Federal #1  
NMNM-118706  
T17S, R28E, NMPM  
Section 14: SE/4SW/4  
Eddy County, New Mexico

Mack Energy Corporation respectfully requests approval to downhole commingle production from the San Andres, Grayburg and Yeso formations in our Black Cat Federal #1 well.

All formations have identical working and revenue interests.

Please do not hesitate to contact me should you require any further information.

Sincerely,  
Mack Energy Corporation

  
Travis K. Lanning  
Land Manager

## **Conditions of Approval**

**Mack Energy Corporation**

**Black Cat Federal 1**

**API 30-015-36042**

**T17S-R28E, Sec 14**

December 28, 2012

**Work to be completed by April 1, 2013.**

- 1. A bridge plug shall be placed at 3588' (50' above the previous perfs).**
- 2. After the well is recompleted in the Red Lake; QU-GB-SA, production tests shall be run for the Red Lake; QU-GB-SA ONLY and results submitted to the BLM.**
3. Functional H<sub>2</sub>S monitoring equipment shall be on location.
4. Surface disturbance beyond the originally approved pad must have prior approval.
5. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
6. A minimum of 2,000 (2M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
7. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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.
8. File **subsequent sundry** Form 3160-5 within 30 days of completing work and submit test results.
9. Workover approval is good for 90 days (completion to be within 90 days of approval). A detailed justification is necessary for extension of that date.

JAM 122812