

District I  
1625 N French Dr, 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

HOBBS OCD

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101

May 27, 2004

APR 27 2012

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		OGRID Number 013837
		API Number 30- 025-37581
Property Code 34657	Property Name Raven State	Well No 2
Proposed Pool 1 Wildcat; Queen		Proposed Pool 2 Wildcat; Delaware

7 Surface Location

UL or lot no B	Section 9	Township 18S	Range 34E	Lot Idn	Feet from the 990	North/South line North	Feet from the 1650	East/West line East	County Lea
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8 Proposed 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
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Additional Well Information

11 Work Type Code Add A Zone	12 Well Type Code Oil	13 Cable/Rotary Rotary	14 Lease Type Code S	15 Ground Level Elevation 4047' GR
16 Multiple Yes	17 Proposed Depth 5860'	18 Formation	19 Contractor	20 Spud Date 4/30/2012
Depth to Groundwater 145'		Distance from nearest fresh water well 1000'		Distance from nearest surface water 1000'
Pit Liner Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/>		Pit Volume _____ bbls		
Closed-Loop System <input checked="" type="checkbox"/>		Drilling Method - Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12 1/4	8 5/8, J-55	48	1795	800sx	Surface/In place
7 7/8	5 1/2, J-55	17	5854	1400sx	Surface/In place

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mack Energy Corporation proposes to commingle Wildcat; Queen, Vacuum; Grayburg-San Andres and Wildcat Delaware production in the Raven State #2.

1. Perf Queen from 4326-4338'.
2. Perf Delaware from 5604-5610'.
3. RIH and PPI/Ball job w/ 2500 gals 15% HCL acid.
4. Swab and evaluate well.
5. Frac Well
6. Put on Production

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway**

Oil Conservation Division- DHC  
Conditions of approval: Approved for drilling/workover  
ONLY--CANNOT produce Downhole Commingled until  
DHC is approved in Santa Fe.

23 I hereby certify that the information given above is true and complete to the best

of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan. ☐

Signature

*Jerry W. Sherrell*

Printed name

Jerry W. Sherrell

Title

Production Clerk

E-mail Address

jerrys@mec.com

Date

4-26-2012

Phone

(575)748-1288

Conditions of Approval Attached ☐

OIL CONSERVATION DIVISION

Approved by

*[Signature]*  
PERMISSION GRANTED

Title

Approval Date

Expiration Date

MAY 02 2012

MAY 02 2012

## DISTRICT I

1625 N. FRENCH DR., HOHNS, 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

## 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 JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30.025.37581</b>	Pool Code	Pool Name <b>Wildcat; Queen</b>
Property Code <b>34657</b>	Property Name <b>RAVEN STATE</b>	Well Number <b>2</b>
OGRID No. <b>013837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Elevation <b>4047'</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	9	18-S	34-E		990	NORTH	1650	EAST	LEA

## 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 <b>40</b>					Joint or Infill	Consolidation Code	Order No.		

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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Jerry W. Sherrell</i> Signature</p> <p><b>Jerry W. Sherrell</b> Printed Name</p> <p><b>Production Clerk</b> Title</p> <p><b>4-12-2012</b> Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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</p> <p>DECEMBER 3, 2005</p> <p>Date Surveyed <b>12/12/05</b> JR</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>Gary R. Edson</i> 12/12/05</p> <p>05.11.1824</p> <p>Certificate No. <b>GARY EDSON</b> 12041</p>
	<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=643489.0 N X=737178.8 E</p> <p>LAT.=32°46'00.00" N LONG.=103°33'42.29" W</p>

# State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT I

1625 N. FRENCH DR., HOHOBOK, NM 88240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brason 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-101

Revised JUNE 10, 2001

Submit to Appropriate District Office

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## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30.025.375B1</b>	Pool Code <b>62180</b>	Pool Name <b>Vacuum; Grayburg-San Andres</b>
Property Code <b>34657</b>	Property Name <b>RAVEN STATE</b>	Well Number <b>2</b>
OGRID No. <b>013837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Elevation <b>4047'</b>

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	9	18-S	34-E		990	NORTH	1650	EAST	LEA

### 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 Acrea	Joint or Infill	Consolidation Code	Order No.
<b>40</b>			

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  <i>Jerry W. Sherrell</i> Signature <b>Jerry W. Sherrell</b> Printed Name <b>Production Clerk II</b> Title <b>4-12-2012</b> Date
	<b>SURVEYOR CERTIFICATION</b>  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.  <b>DECEMBER 3, 2005</b> Date Surveyed Signature & Seal of Professional Surveyor <i>Gary H. Eldon</i> 12/12/05 05.11.1824
	<b>GEODETIC COORDINATES</b> NAD 27 NME  Y=643489.0 N X=737178.8 E  LAT.=32°46'00.00" N LONG.=103°33'42.29" W
	Certificate No. <b>GARY KIDSON</b> <b>12041</b>

# State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT I

1625 N. FRENCH DR., HOVES, NM 88240

## DISTRICT II

1501 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Bravos 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-101  
Revised JUNE 10, 2001  
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## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30.025.37581</b>	Pool Code	Pool Name <b>Wildcat, Delaware</b>
Property Code <b>34657</b>	Property Name <b>RAVEN STATE</b>	Well Number <b>2</b>
OGRID No. <b>013837</b>	Operator Name <b>MACK ENERGY CORPORATION</b>	Elevation <b>4047'</b>

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	9	18-S	34-E		990	NORTH	1650	EAST	LEA

### 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 <b>40</b>	Joint or Infill	Consolidation Code	Order No.						

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	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature <u>Jerry W. Sherrell</u> Printed Name <u>Jerry W. Sherrell</u> Title <u>Production Clerk</u> Date <u>4-12-2012</u>	
	<b>SURVEYOR CERTIFICATION</b>  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.  DECEMBER 3, 2005 Date Surveyed <u>JR</u> Signature & Seal of Professional Surveyor <u>Gary R. Hudson</u> Certificate No. <u>05.11.1824</u>	
	<b>GEODETIC COORDINATES</b> NAD 27 NME  Y=643489.0 N X=737178.8 E  LAT.=32°46'00.00" N LONG.=103°33'42.29" W	Certificate No. <u>GARY HUDSON</u> <u>12041</u>