### Distnet 1

1625 N French Dr , Hobbs, NM 88240

# HOBBS OCD

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27,2004

\*Bstrict 11 1301 W Grand Avenue, Artesia, NM 882119 R 2 7 2012

District III
I 000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S St Francis Dr , Santa Fe, NM 8750 **ECEIVED** 

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

Submit to appropriate District Office

☐ AMENDED REPORT

| APPL   | <b>ICATI</b>            | ON                     | FOR              | PERMIT                           | TO DI  | RILL,   | RE-E               | NTE  | R, DE              | EPEN.                   | PLUGB                                 | ACK.             | OR A                               | ADD           | A ZONE           |
|--|-------------------------|------------------------|------------------|----------------------------------|--|---|--------------------|--|--------------------|-------------------------|---------------------------------------|------------------|------------------------------------|---------------|------------------|
| APPLICATION FOR PERMIT TO DRILL, RE-ENT Operator Name and Address  |                         |                        |                  |                                  |  |   |                    |  | -                  |                         | IOCDID Ml                             |                  |                                    | 013837        |                  |
| Mack Energy Corporation  |                         |                        |                  |                                  |  |   |                    |  |                    | 20 024                  | 30- 025-3758 <sup>3</sup> API Number  |                  |                                    |               |                  |
| P.O. Box 960 Artesia, NM 88211-0960  |                         |                        |                  |                                  |  | Name  |                    |  | 30- 02.            | 186/ 6-0                |                                       | 6 Well N         | -                                  |               |                  |
| 1  |                         |                        |                  |                                  | State  |   |                    |  |                    |                         |                                       | 2                |                                    |               |                  |
| 'Proposed Pool I   |                         |                        |                  |                                  |  |   |                    | I  | roposed            | Pool 2                  |                                       |                  |                                    |               |                  |
|  |                         |                        | Wi               | ildcat; Queer                    | 1  |   |                    | ;  |                    |                         |                                       | dcat; De         |                                    | e             |                  |
|  |                         |                        |                  |                                  |  | 7 Si  | ırface             | Locat  | ion                |                         |                                       |                  |                                    |               |                  |
| UL or lot no   | 1 10                    |                        |                  |                                  |  |   |                    | outh line                                    | Feet from the      | : E                     | ast(West 1                            | ine              | County                             |               |                  |
| <u>B</u>   | B 9 18S 34E             |                        |                  |                                  | 990  |   | No                 | orth   | 1650               | L_                      | East                                  | st Lea           |                                    |               |                  |
| 8 Proposed Bottom Hole Location If Different From Surface  |                         |                        |                  |                                  |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| UL or lot no   | Section                 | Tow                    | nship            | Range                            | Lot I  | ot Idn Feet fro   |                    | om the                                       | North/S            | outh line               | Feet from the                         | e Ea             | astfWest l                         | ine           | County           |
|  |                         | 1                      |                  |                                  |  |   |                    |  |                    |                         |                                       |                  |                                    | L             |                  |
| Work '   | Type Code               | -                      |                  |                                  |  | <u>lditior</u>  | nal We             |  | rmati              |                         |                                       |                  | r                                  |               |                  |
| 1  | A Zone                  | 12 Well Type Co<br>Oil |                  |                                  | ode "Cable/Rotary Rotary   |   |                    | ,  |                    | 14 Lease Type Code<br>S |                                       |                  | is Ground Level Elevation 4047' GR |               |                  |
|  | ultiple                 |                        | "Proposed Depth  |                                  |  |   | <del> </del>       |  |                    | 9 Contractor            |                                       | <del> </del>     | 2 Spud Date                        |               |                  |
|  | es                      |                        |                  | 5860'                            |  |   |                    |  |                    |                         | · · · · · · · · · · · · · · · · · · · |                  | <u> </u>                           |               | 0/2012           |
| Depth to Grou  | ndwater 14              | 45'                    |                  |                                  | Distance   | e from ne   | arest fres         | h water w                                    | <sup>ell</sup> 100 | 0'                      | Distance                              | from near        | rest surfa                         | ice water     | 1000'            |
| Pit Liner  | Synthetic               |                        | mıl              | ls thick Clay                    | Pit Vol  | ume   | bbls               |  | Drdli              | ng <u>Method</u>        | -                                     |                  | •                                  |               |                  |
| Closed   | t-Loop Sys              | tem D                  | ₫                |                                  |  |   |                    |  | Fresh V            | Vater 🛛                 | Brine Die                             | sel/Oil-bas      | sed 🗌                              | Gas/Aır       |                  |
|  |                         |                        |                  | 2                                | Propos   | sed Ca  | sing a             | nd Ce  | ment               | Prograr                 | n                                     |                  |                                    |               |                  |
| Hole S   | 170                     |                        | Casu             | ng Size                          |  |   |                    | Setting Depth                                |                    |                         |                                       | Sacks of Cement  |                                    | Estimated TOC |                  |
|  |                         | 3, J-55                |                  | Casing weight/foot 48            |  | 1795  |                    | 800sx  |                    |                         | Surface/In place                      |                  |                                    |               |                  |
| 7 7/8  |                         | 5 1/2, J-55            |                  |                                  | <del></del>  |   | 5854               |  | 1400sx             |                         |                                       | Surface/In place |                                    |               |                  |
| , ,,,,   |                         |                        |                  |                                  |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
|  |                         |                        |                  |                                  |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
|  |                         |                        |                  |                                  |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| 1  |                         | _                      |                  | is application is                |  |   |                    | -  |                    | •                       | •                                     |                  |                                    |               |                  |
| Mack Energ   | olowout pre<br>y Corpoi | vention                | n progra<br>prop | am, if any Use :<br>oses to comi | additional s<br>mingle W   | heets it i<br>/ildcat;  | necessary<br>Queen | , Vacu                                       | um; G              | rayburg-                | San Andres                            | and W            | /ildcat                            | Delwa         | re production in |
| the Raven St   |                         |                        |                  |                                  | Ü  |   |                    |  |                    | •                       |                                       |                  |                                    |               | •                |
| 1. Dowf O  | C 1                     | 226                    | 12201            |                                  |  |   |                    | Who we                                       | it W               | vnirac '                | ) Vears I                             | 'rom /           | 4 DDF                              | oval          |                  |
| <ol> <li>Perf Queen from 4326-4338'.</li> <li>Perf Delware from 5604-5610'.</li> </ol>   |                         |                        |                  |                                  | Permit Expires 2 Years From Approval Date Unless Drilling Underway |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| 3. RIH and F   | PI/Ball j               | ob w                   | / 2500           | ) gals 15% H                     | ICL acid.  |   |                    |  | Date               | - ·                     |                                       |                  |                                    |               |                  |
| 3. RIH and PPI/Ball job w/ 2500 gals 15% HCL acid. 4. Swab and evaluate well.  |                         |                        |                  |                                  |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| 5. Frac Well<br>6. Put on Production   |                         |                        |                  |                                  |  | Oil Conservation Division- DHC Conditions of approval: Approved for drilling/workover |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| o. Put on Pro  | auction                 |                        |                  |                                  |  |   |                    | ONLYCANNOT produce Downhole Commingled until |                    |                         |                                       |                  |                                    |               |                  |
|  |                         |                        |                  |                                  |  |   |                    | D  | HC is a            | pproved                 | in Santa F                            | e.               |                                    |               |                  |
|  | -                       |                        |                  | given above is tr                |  | T   |                    |  |                    | OII 0                   | 0.102221                              | A POT O          |                                    |               |                  |
| oftny knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines a general permit , or |                         |                        |                  |                                  | OIL CONSERVATION DIVISION  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| an (attached) alternative OCD-approved plan.   |                         |                        |                  | Approved by                      |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| Signature Perry W. Shenall   |                         |                        |                  |                                  | Much   |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| Printed name Jerry W. Sherrell   |                         |                        |                  |                                  | Title <sup>.</sup>   |   | 一种                 | POLEUM                                       | E WAR              |                         |                                       |                  |                                    |               |                  |
| Title. Production Clerk  |                         |                        |                  |                                  |  | al Date   |                    |  | Evnira             | ition Dot               | е                                     |                  |                                    |               |                  |
| E-mail Address jerrys@mec.com  |                         |                        |                  |                                  | Approval Date Expiration Date  MAY 0 2 2012                        |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
|  |                         |                        |                  | T                                |  |   |                    |  |                    |                         |                                       |                  |                                    |               |                  |
| Date 4-6   | 401                     | d                      |                  | Phone.                           | (575)74  | 48-128  | 8                  | Conditi                                      | ons of A           | pproval Att             | ached 🔲                               |                  |                                    |               |                  |

## State of New Mexico

DISTRICT I 1625 N. PRENCH DR., HORBS, NH 88240

Energy, Minerals and Natural Resources Department

DISTRICT II
1801 W. GRAND AVENUE, ARTESIA, NM 68210

DISTRICT III 1000 Rio Brakos Rd., Axtec, NM 67410

# 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

| DISTRICT IV<br>1220 S. ST. PRANCE DR., SANTA PR.   | WELL WELL                    | LOCATION   | AND ACREA     | GE DEDICATION    | ON PLAT  | () AMENDE                        | D REPORT                       |  |  |  |
|--|------------------------------|--|---------------|------------------|--|----------------------------------|--------------------------------|--|--|--|
| API Number   |                              | Pool Code  | 1, ), )       | deat: Q          | Pool Name  |                                  |                                |  |  |  |
| 30.035.375<br>Property Code  |                              | Well Number  |               |                  |  |                                  |                                |  |  |  |
| 34657  |                              | RAVEN STATE  |               |                  |  |                                  |                                |  |  |  |
| 013837   |                              | Operator Name MACK ENERGY CORPORATION                                |               |                  |  |                                  |                                |  |  |  |
| 01000  | <b>I</b>                     | Surface Location   |               |                  |  |                                  |                                |  |  |  |
| UL or lot No.   Section  | Township Rang                | e Lot Idn  | Feet from the | North/South line | Feet from the  | East/West line                   | County                         |  |  |  |
| В 9  | 18-S 34-                     | -E   | 990           | NORTH            | 1650   | EAST                             | LEA                            |  |  |  |
| Bottom Hole Location If Different From Surface   |                              |  |               |                  |  |                                  |                                |  |  |  |
| UL or lot No. Section  | Township Rang                | e Lot ldn  | Feet from the | North/South line | Feet from the  | Bast/West line                   | County                         |  |  |  |
| Dedicated Acres   Joint o  | r Infill   Consolidati       | ion Code   Or  | der No.       |                  |  |                                  |                                |  |  |  |
| 40   |                              |  |               |                  |  |                                  |                                |  |  |  |
| 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 |                              |  |               |                  |  |                                  |                                |  |  |  |
|  |                              | <br> <br> <br> <br> <br> <br>  | ,066          | 1650'            | I hereby contained herein best of my knowledge of my knowledge of the second of the se | Senall<br>J.Sherrell<br>Hon Cler | formation<br>etc to the        |  |  |  |
|  | NAL<br>Y=6<br>X=7<br>LAT.=3: | C COORDINATE  27 NME  43489.0 N 37178.8 E  246'00.00" N 03:33'42.29" | <br> <br>     |                  | on this plat was actual surveys supervison and correct to the DECEM Date Surveyed Signature & Frofessional Surveyed Office of the December of the Professional Surveyed Office of the December of the Professional Surveyed Office of the Office of the Professional Surveyed Office of the Of | seal of                          | i notes of under my true and f |  |  |  |

## State of New Mexico

DISTRICT I 1626 N. PRENCEI DR., HOUBS, NN 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 200;

Submit to Appropriate District Office

State Lease - 4 Copies Pec Lease - 8 Copies

### DISTRICT H IBOI W. GRAND AVENUE, ARTESIA, NW 68210

Dedicated Acres

Joint or Infill

Consolidation Code

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 67410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT C AMENDED REPORT 1220 S. ST. FRANCIS DR., SANTA PE, NN 87505 Pool Code API Number Pool Name RO porty Code Property Name Well Number RAVEN STATE 2 OGRID No. Operator Name Blevation MACK ENERGY CORPORATION 4047 Surface Location North/South line UL or lot No. Section Township Rango Lot Idn Feet from the East/West line Feet from the County В 9 18-S 34 - E990 NORTH 1650 **EAST** LEA Bottom Hole Location If Different From Surface UL or lot No. Lot Idn Section Township Range Feet from the North/South line Feet from the Rest/West line County

Order No.

| l | 1   |  |
|---|---|--|
|   | E ASSIGNED TO THIS COMPLETION UNTIL ALL INTERE<br>A NON-STANDARD UNIT HAS BEEN APPROVED BY TI         |  |
|   | 1650'   | OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Cay W. Shavel  Signature  How W. Sherrell  France Name  How when Cleric  4-12-2012  Date   |
|   | GEODETIC COORDINATES NAD 27 NME  Y=643489.0 N X=737178.8 E  LAT.=32*46'00.00" N LONG.=103*33'42.29" W | 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 supervison and that the same is true and correct to the best of my belief.  DECEMBER 3, 2005  Date Surveyed JR  Signature & Seal of Professional Surveyor |
|   |   | bong 12 Eugn 12/12/05<br>05.11.182.4<br>Certificate No. GARY KIDSON 12041  |

## State of New Mexico

DISTRICT I 1626 N. PRENCH DR., HOURS, NM 68240

Energy, Minerals and Natural Resources Department

Form C-10;

Revised JUNE 10, 200: Submit to Appropriate District Office

Certificate No. GARY RIDSON

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II
1501 W. GRAND AVENUR, ARTESIA, NW 68210

DISTRICT III

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

1000 Rio Brazos Rd., Aztec, NM 67410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. PRANCES DR., SANTA PE., NM 87505 API Number Pool Code Property Code Well Number Property Name RAVEN STATE 2 OGRID No. Operator Name Elevation MACK ENERGY CORPORATION 4047 Surface Location UL or lot No. Lot Idn Feet from the North/South line Bast/West line Section Township Range Feet from the County В 990 18-S 34-E EAST 9 NORTH 1650 LEA Bottom Hole Location If Different From Surface Lot Idn Feet from the UL or lot No. Section Township Range North/South line Feet from the Bast/West line County Joint or Infill Dedicated Acres 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

**OPERATOR CERTIFICATION** I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. 1650'-4-12-2012 SURVEYOR CERTIFICATION I hereby certify that the well location shown GEODETIC COORDINATES on this plat was plotted from field notes of NAD 27 NME actual surveys made by me or under my supervison and that the same is true and Y=643489.0 Ncorrect to the best of my belief. X=737178.8 E DECEMBER 3, 2005 LAT. =32'46'00.00" N Date Surveyed Way LONG. = 103'33'42.29" W JR Signature & Seal of Professional Surveyor