

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 166027

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

| | | |
|--|--------------------------------------|-------------------------------|
| 1. Operator Name and Address MACK ENERGY CORP PO Box 960 Artesia, NM 88211 | | 2. OGRID Number 13837 |
| | | 3. API Number 30-025-41134 |
| 4. Property Code 39176 | 5. Property Name BLACK JACK STATE | 6. Well No. 002 |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| J | 18 | 18S | 35E | J | 2310 | S | 2310 | E | LEA |

8. Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| J | 18 | 18S | 35E | J | 2310 | S | 2310 | E | Lea |

9. Pool Information

| | |
|----------------------------------|-------|
| WC-025 G-06 S183518A,BONE SPRING | 97930 |
|----------------------------------|-------|

Additional Well Information

| | | | | |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3964 |
| 16. Multiple N | 17. Proposed Depth 10500 | 18. Formation Bone Spring | 19. Contractor | 20. Spud Date 5/1/2013 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |

21. Proposed Casing and Cement Program

| Type | Hole Size | Casing Type | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 12.25 | 8.625 | 24 | 1700 | 825 | 0 |
| Prod | 7.875 | 5.5 | 17 | 10500 | 1475 | 0 |

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill 12 1/4" hole to 1700', run 8 5/8" casing to surface. Drill a 7 7/8" to 10,500', run 5 1/2" and circ cement to surface. Put well on production.

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|-----------|------------------|---------------|--------------|
| DoubleRam | 3000 | 3000 | |

| | |
|---|--|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature: Printed Name: Electronically filed by Jerry Sherrell Title: Production Clerk Email Address: jerrys@mec.com Date: 4/23/2013 | OIL CONSERVATION DIVISION Approved By: Paul Kautz Title: Geologist Approved Date: 4/24/2013 Expiration Date: 4/24/2015 Conditions of Approval Attached |
| Phone: 505-748-1288 | |

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
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Form C-102
August 1, 2011
Permit 166027

WELL LOCATION AND ACREAGE DEDICATION PLAT

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|-------------------------------|--------------------------------------|--|
| 1. API Number 30-025-41134 | 2. Pool Code 97930 | 3. Pool Name WC-025 G-06 S183518A;BONE SPRING |
| 4. Property Code 39176 | 5. Property Name BLACK JACK STATE | 6. Well No. 002 |
| 7. OGRID No. 13837 | 8. Operator Name MACK ENERGY CORP | 9. Elevation 3964 |

10. Surface Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|-------------------|---------------|---------------|
| UL - Lot J | Section 18 | Township 18S | Range 35E | Lot Idn | Feet From 2310 | N/S Line S | Feet From 2310 | E/W Line E | County LEA |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|-------------------|---------------|---------------|

11. Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|------------------------------|---------------------|------------------------|---------------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| 12. Dedicated Acres 40.00 | 13. Joint or Infill | 14. Consolidation Code | 15. 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

| | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|---|
| <table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 25%; height: 30px;"></td><td style="width: 25%; height: 30px;"></td><td style="width: 25%; height: 30px;"></td><td style="width: 25%; height: 30px;"></td></tr> <tr><td style="height: 30px;"></td><td style="height: 30px;"></td><td style="height: 30px;"></td><td style="height: 30px;"></td></tr> <tr><td style="height: 30px;"></td><td style="height: 30px;"></td><td style="height: 30px; background-color: #cccccc; text-align: center;">■</td><td style="height: 30px;"></td></tr> <tr><td style="height: 30px;"></td><td style="height: 30px;"></td><td style="height: 30px;"></td><td style="height: 30px;"></td></tr> </table> | | | | | | | | | | | ■ | | | | | | <p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained 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(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Jerry Sherrell Title: Production Clerk Date: 4/23/2013</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Surveyed By: Filimon Jaramillo Date of Survey: 4/18/2013 Certificate Number: 12797</p> |
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Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: BLACK JACK STATE #002

API: 30-025-41134

| Created By | Comment | Comment Date |
|------------|---|--------------|
| DWEAVER | H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required. | 4/23/2013 |
| CHERRERA | OCD RECEIVED FORM C144 CLEZ. OCD PERMIT #P1-06099 | 4/23/2013 |

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: BLACK JACK STATE #002

API: 30-025-41134

| OCD Reviewer | Condition |
|-----------------|--|
| pkautz | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string |
| pkautz | In order to seal off protectable water, surface casing must be set 25' below top Rustler Anhydrite. |