

**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 185445

**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 30-015-42355
4. Property Code 313183	5. Property Name Old Cavern Fee	6. Well No. 001

**7. Surface Location**

UL - Lot K	Section 32	Township 22S	Range 27E	Lot Idn	Feet From 1650	N/S Line S	Feet From 2160	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot K	Section 32	Township 22S	Range 27E	Lot Idn K	Feet From 1675	N/S Line S	Feet From 2285	E/W Line W	County Eddy
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**9. Pool Information**

CASS DRAW;BONE SPRING	10380
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3165
16. Multiple N	17. Proposed Depth 9250	18. Formation Bone Spring	19. Contractor	20. Spud Date 5/7/2014
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	400	470	0
Int1	12.25	9.625	36	2100	725	0
Prod	8.75	7	26	8000	1120	0
Prod	8.75	7	26	9250	0	0

**Casing/Cement Program: Additional Comments**

Mack Energy proposes to drill a 17 1/2" hole to 400', run 13 3/8" casing and cement. Drill a 12 1/4" hole to 2100', run 9 5/8" casing and cement. Drill a 8 3/4" hole to 9250', run 7" casing L-80 from 0-8000' and HCP-110 from 8000-9250' and cement with 1120sx. Put well on production.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	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 ☒ and/or 19.15.14.9 (B) NMAC ☐ if applicable.

Signature:

Printed Name: Electronically filed by Jerry Sherrell

Title: Production Clerk

Email Address: jerrys@mec.com

Date: 4/30/2014

Phone: 505-748-1288

**OIL CONSERVATION DIVISION**Approved By: *R.L. Dade*Title: *Dist. & Supervision*Approved Date: *5-1-2014*

Expiration Date:

Conditions of Approval Attached

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Form C-102  
August 1, 2011

Permit 185445

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-42355	2. Pool Code 10380	3. Pool Name CASS DRAW;BONE SPRING
4. Property Code 313183	5. Property Name Old Cavern Fee	6. Well No. 001
7. OGRID No. 13837	8. Operator Name MACK ENERGY CORP	9. Elevation 3165

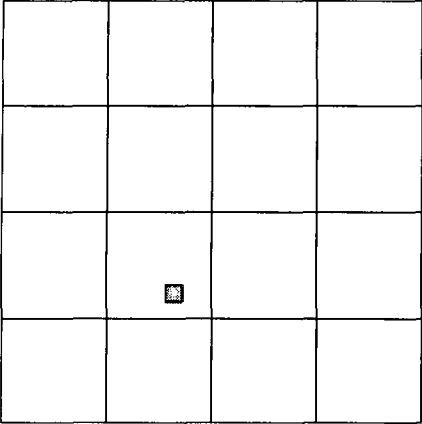
**10. Surface Location**

UL - Lot K	Section 32	Township 22S	Range 27E	Lot Idn	Feet From 1650	N/S Line S	Feet From 2160	E/W Line W	County Eddy
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**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**

	<p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></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: 4/30/2014</p> <hr/> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></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: 4/16/2014 Certificate Number: 12797</p>
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Form APD Conditions

Permit 185445

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: MACK ENERGY CORP [13837] PO Box 960 Artesia, NM 88211	API Number: 30-015-42355
	Well: Old Cavern Fee #001

OCD Reviewer	Condition
CSHAPARD	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