

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

**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 30-025-39990
4. Property Code 38421	5. Property Name NIGHTHAWK STATE COM	6. Well No. 001

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	11	15S	32E	D	660	N	660	W	LEA

**8. Pool Information**

WILDCAT ABO	97019
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**Additional Well Information**

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4285
14. Multiple N	15. Proposed Depth 13063	16. Formation Abo	17. Contractor	18. Spud Date 1/15/2010
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick Clay <input type="checkbox"/> Pit Volume:      bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**19. Proposed Casing and Cement Program**

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1400	1175	0
Prod	8.75	7	26	8950	1010	0
Liner1	6.125	4.5	11.6	13063	0	0

**Casing/Cement Program: Additional Comments**

Mack Energy proposes to drill a 12 1/4" hole to 1400', run 9 5/8" casing and cement to surface. drill a 8 3/4" hole to 8950', run 7" casing and cement to surface. Drill a 6 1/8" hole to 13063', run 4 1/2" liner from 8200-13063' set using an open hole packer system and liner hanger.

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	

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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	<b>OIL CONSERVATION DIVISION</b>		
	Approved By: Paul Kautz		
	Title: Geologist		
	Printed Name: Electronically filed by Jerry Sherrell	Approved Date: 12/23/2010	Expiration Date: 12/23/2012
	Title: Production Clerk		
	Email Address: jerrys@mackenergycorp.com		
Date: 12/15/2010	Phone: 505-748-1288	Conditions of Approval Attached	

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(505) 393-6161 Fax:(505) 393-0720

**District II**  
 1301 W. Grand Ave., Artesia, NM 88210  
 Phone:(505) 748-1283 Fax:(505) 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

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**1220 S. St Francis Dr.**  
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-025-39990	2. Pool Code 97019	3. Pool Name WILDCAT ABO
4. Property Code 38421	5. Property Name NIGHTHAWK STATE COM	
6. Well No. 001	7. OGRID No. 13837	
8. Operator Name MACK ENERGY CORP	9. Elevation 4285	







**10. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	11	15S	32E		660	N	660	W	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
A	11	15S	32E	A	660	N	355	E	LEA
12. Dedicated Acres 160.00		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**

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	<p 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: Ronald Eidson          Date of Survey: 9/24/2010          Certificate Number: 3239</p>																

## Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: NIGHTHAWK STATE COM #001

API: 30-025-39990

Created By	Comment	Comment Date
JWSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	12/15/2010
pkautz	Land S/S	12/16/2010

# Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: NIGHTHAWK STATE COM #001

API: 30-025-39990

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