

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 88211-0960		2. OGRID Number 13837
4. Property Code 34657		3. API Number 30-025-37581
5. Property Name RAVEN 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
B	9	18S	34E	B	990	N	1650	E	LEA

8. Pool Information

VACUUM;GRAYBURG-SAN ANDRES	62180
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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 4046
14. Multiple N	15. Proposed Depth 5400	16. Formation San Andres	17. Contractor	18. Spud Date 12/10/2005
Depth to Ground water 129		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 _____ miles thick Clay <input type="checkbox"/> Pit Volume: 2000 _____ 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	8.625	24	350	300	0
Prod	7.875	5.5	17	5400	2000	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 17 1/2 hole to 350, run 8 5/8 casing and cement. Drill a 7 7/8 hole to 5400 using the Lea County Alternative, test San Andres formation and run 5 1/2 casing and cement. Note: On production string a fluid caliper will be run and will figure cement with 25% excess, attempt to circulate.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

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 NMOC guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Jerry Sherrell	Approved By: Paul Kautz	
Title: Production Clerk	Title: Geologist	
Email Address: jerrys@mackenergycorp.com	Approved Date: 12/5/2005	Expiration Date: 12/5/2006
Date: 12/5/2005	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

State of New Mexico
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Santa Fe, NM 87505

Form C-102
 Permit 19396

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-37581	2. Pool Code 62180	3. Pool Name VACUUM;GRAYBURG-SAN ANDRES
4. Property Code 34657	5. Property Name RAVEN STATE	6. Well No. 002
7. OGRID No. 13837	8. Operator Name MACK ENERGY CORP	9. Elevation 4046

10. Surface Location

UL - Lot B	Section 9	Township 18S	Range 34E	Lot Idn	Feet From 990	N/S Line N	Feet From 1650	E/W Line E	County LEA
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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

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Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: RAVEN STATE #002

API: 30-025-37581

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.	12/5/2005

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: RAVEN STATE #002

API: 30-025-37581

OCD Reviewer	Condition
pkautz	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
pkautz	prior to any pit construction notify Gary Wink at 505-393-6161 ext 114