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

State of New Mexico

Form C-101 Permit 42744

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

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1.	Operator Name and Address	2. OGRID Number
M	13837	
	PO Box 960 Artesia , NM 88211	3. API Number
	111(6)11, 14141 60211	30-025-38203
4. Property Code	5. Property Name	6. Well No.
34657	RAVEN STATE	004

7. Surface Location

	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
4	E	9	18S	34E	E	2310	N	330	W	LEA

8. Pool Information

VACUUM;BONE SPRING, WEST 61910

Additional Well Information

	931	I MANUAL II OH I HOI III W	.OIL	The state of the s
9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 4052
14. Multiple 15. Proposed Depth N 9300		16. Formation 3rd Bone Spring Carbonate	17. Contractor	18. Spud Date 12/6/2006
Depth to Ground	water	Distance from nearest fresh water well > 1000	i l	Distance to nearest surface water > 1000
Pit: Liner: Synthetic D Closed Loop Syster			rilling Method: resh Water 🔀 Brine 🗀	Diesel/Oil-based Gas/Air

19. Proposed Casing and Cement Program

Type	Hole Size	Casina Tama	Casing Weight/ft	Setting Depth	Seales of Comount	Estimated TOC
Type	Hole Size	Casing Type	Casing weight/it	Setting Depth	Sacks of Cement	Estimated IOC
Surf	12.25	8.625	24	1800	800	0
Prod	7.875	5.5	17	9300	1500	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 1800' run 8 5/8 casing and cement. Drill a 7 7/8 hole to 9300' 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 circ.

Proposed Blowout Prevention Program

	1 Toposca Dionoat I It	remon rogram	
Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	8

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	OIL CONSERVATION DIVISION				
NMOCD guidelines X , a general permit Γ , or an (attached) alternative OCD-approved plan Γ .	Approved By: Chris Williams				
Printed Name: Electronically filed by Jerry Sherrell	Title: District Supervisor				
Title: Production Clerk	Approved Date: 12/7/2006 Expiration Date: 12/7/2007				
Email Address: jerrys@mackenergycorp.com					
Date: 12/5/2006 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

1301 W. Grand Ave., Artesia, NM 88210 Phone:(505) 748-1283 Fax:(505) 748-9720

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

Form C-102 Permit 42744

Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name	
30-025-38203	61910	VACUUM;BONE SPRING	, WEST
4. Property Code	5. Property	Name 6. W	ell No.
34657	RAVEN S	TATE 0	04
7. OGRID No.	8. Operator Name		vation
13837	MACK ENER	052	

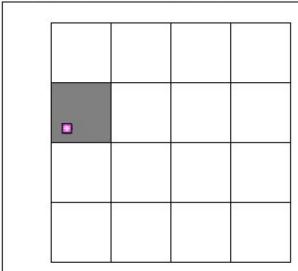
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	9	18S	34E		2310	N	330	w	LEA

11. Bottom Hole Location If Different From Surface

			Dovozii								
UL - Lot	Section	Township	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
1075747533	cated Acres	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



OPERATOR CERTIFICATION

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.

E-Signed By: Jerry Sherrell Title: Production Clerk Date: 12/5/2006

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 supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Gary Eidson Date of Survey: 12/4/2006

Certificate Number: 12641

Permit Comments

Operator: MACK ENERGY CORP , 13837 Well: RAVEN STATE #004

API: 30-025-38203

Created By	Comment	Comment Date
LDMCSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	12/4/2006

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837 Well: RAVEN STATE #004

API: 30-025-38203

OCD Reviewer	Condition
H2DALH I	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