<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 59930

# **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	2. OGRID Number		
MACK I	13837			
4.00 m 343	BOX 960 A , NM 88211	3. API Number		
HICI ED.	11,111111111111111111111111111111111111	30-025-38494		
4. Property Code	5. Property Name	6. Well No.		
34770	005			

#### 7. Surface Location

UL -	ot S	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
G	- 5	23	16S	33E	G	2310	N	1650	E	LEA

#### 8. Pool Information

HUME,GRAYBURG, WEST	97444
HUME;QUEEN, WEST	33560

#### Additional Well Information

			Auditional Web	і пиотпалю	IL	1/2
9. Work Type New Well		ell Type IL	11. Cable/Rotary		12. Lease Type State	13. Ground Level Elevation 4187
14. Montriple Y	15. Prop	osed Depth	16. Formatio Grayburg	25	17. Contractor	18. Spud Date 7/20/2005
Depth to Group 150	Depth to Ground water 150		Distance from neares	t fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic Closed Loop Sys	tem 🛮	mils thick	Clay Pit Volume:		ling Method: h Water Brine 1	Diesel/Oil-based Gas/Air

19. Proposed Casing and Cement Program

Туре	Hole Size	Casing Type	Casing Type Casing Weight/ft		Sacks of Cement	Estimated TOC
Surf	12.25	8.625	32	1520	900	0
Prod	7.875	5.5	17	4600	1200	0

## Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 1520', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 4500' and test Grayburg formation, 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

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

of my knowledge and belief.	ation given above is true and complete to the best ling pit will be constructed according to	OIL CONSERVATION DIVISION  Approved By: Paul Kautz				
NMOCD guidelines a ge OCD-approved plan	neral permit , or an (attached) alternative					
Printed Name: Electronic	ally filed by Jerry Sherrell	Title: Geologist				
Title: Production Clerk		Approved Date: 8/29/2007 Expiration Date: 8/29/2008				
Email Address: jerrys@r	nackenergycorp.com	08.28.2	20 10			
Date: 8/28/2007	Phone: 505-748-1288	Conditions of Approval Attached				

District I

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<u>District II</u>

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

<u>District III</u>

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 59930

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

Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

C.555.	ma accition the first	
1. API Number	2. Pool Code	3. Pool Name
30-025-38494	97444	HUME;GRAYBURG, WEST
4. Property Code	5. Property	Name 6. Well No.
34770	GAR ST.	ATE 005
7. OGRID No.	8. Operator	Name 9. Elevation
13837	MACK ENER	GY CORP 4187

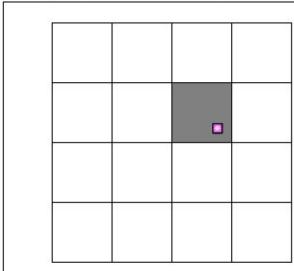
#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
G	23	16S	33E	G	2310	N	1650	E	LEA		

#### 11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
100000000000000000000000000000000000000	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.

E-Signed By: Jerry Sherrell Title: Production Clerk Date: 8/28/2007

### 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: 7/11/2005 Certificate Number: 12641 District I

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Form C-102 Permit 59930

# 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 30-025-38494	2. Pool Code 33560	3. Pool Name HUME;QUEEN, WEST
4. Property Code 34770	5. Property No GAR STAT	
7. OGRID №. 13837	8. Operator No MACK ENERGY	

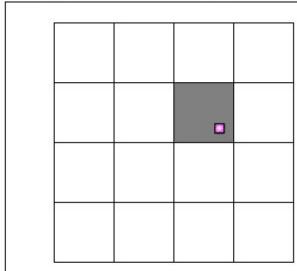
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ò	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
	G	23	16S	33E	G	2310	И	1650	E	LEA	

#### 11. Rottom Hole Location If Different From Surface

	11. Downit Tible Doddwit II Date Total Salide											
UL - Lot	Section	Township	Township Range		Idn	Feet From	N/S Line		Feet From	E/W Line	County	
0.5000000000000000000000000000000000000	12. Dedicated Acres 40.00		13. Joint or Infill		14. Consolidation Code			15. Order No.				

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Surveyed By: Gary Eidson Date of Survey: 7/11/2005 Certificate Number: 12641

# **Permit Comments**

Operator: MACK ENERGY CORP , 13837 Well: GAR STATE #005

30-025-38494 API:

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.	8/28/2007
JWSHERRELL	Location and pits have been construted. Pits were not lined or used. We will close the existing unused pit and drill using a closed loop system.	8/28/2007

# Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837 Well: GAR STATE #005 30-025-38494 API:

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