#### State of New Mexico

Form C-101 Permit 20465

#### **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

	THE DECEMBER OF THE PROPERTY OF THE PARTY OF								
1	Operator Name and Address	2. OGRID Number							
I/	MACK ENERGY CORP	13837							
ΔΙ	PO BOX 960 RTESIA , NM 882110960	3. API Number							
ni ni	CIESIA , INVI 602110900	30-015-34497							
4. Property Code	5. Property Name	6. Well No.							
23810	MESQUITE STATE	016							

#### 7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	20	17S	29E	L	2310	S	330	W	EDDY

#### 8. Pool Information

EMPIRE; YESO, EAST	96610
GRAYBURG JACKSON:SR-Q-G-SA	28509

#### **Additional Well Information**

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9. Work Type New Well		il Type IL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3647
14. Mühtiple Y	14. Multiple 15. Proposed Depth Y 4350  Depth to Ground water 110		16. Formation Yeso Formation	17. Condractor	18. Spud Date 12/25/2005
			Distance from nearest fresh water w	rell	Distance to nearest surface water > 1000
Pit: Liner: Synthetic D Closed Loop System	_	mils thick	· —	Drilling Method: Fresh Water   Brine   1	Diesel/Oil-based 🗆 Gas/Air 🗙

19. Proposed Casing and Cement Program

Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	350	375	0
Int1	12.25	8.625	24	800	500	0
Prod	7.875	5.5	17	4350	900	0

#### Casing/Cement Program: Additional Comments

Mack Energy proposes to drill to 350, run 13 3/8 casing and cement. Drill to 800, run 8 5/8 casing and cement. Drill to 4350 and test Paddock zone, run 5 1/2 casing and cement. Put well on production. Note: On production string, a fluid caliper will be run, will figure cement with 25% excess, attempt to circulate.

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given about my knowledge and belief.  I further certify that the drilling pit will be		OIL CONSERVATION DIVISION  Approved By: Bryan Arrant				
NMOCD guidelines X, a general permit CCD-approved plan	, or an (attached) alternative					
Printed Name: Electronically filed by	y Jerry Sherrell	Title: Geologist				
Title: Production Clerk		Approved Date: 12/27/2005	Expiration Date: 12/27/2006			
Email Address: jerrys@mackenergyc	orp.com					
Date: 12/22/2005 Pho	one: 505-748-1288	Conditions of Approval Atta	ched			

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

Form C-102 Permit 20465

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

Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

4,707.4		
1. API Number	2. Pool Code	3. Pool Name
30-015-34497	96610	EMPIRE; YESO, EAST
4. Property Code	5. Property Na	me 6. Well No.
23810	MESQUITE ST	TATE 016
7. OGRID No.	8. Operator Na	me 9. Elevation
13837	MACK ENERGY	CORP 3647

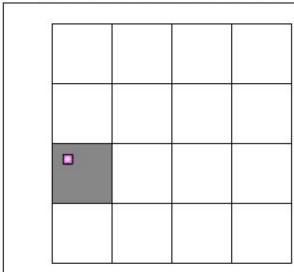
#### 10. Surface Location

										_
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	]
L	20	17S	29E		2310	S	330	w	EDDY	ı

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

	11. Downti 100 Bookwai ii Daicien 110m barace										
UL - Lot	Section	Township	Range	Lot 1	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
0.5000000000000000000000000000000000000	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: 12/22/2005

#### 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: 12/21/2005 Certificate Number: 12641 District I

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

<u>District II</u>

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Santa Fe, NM 87505

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

0.50				
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30-015-34497	28509	GRAYBURG JAC	KSON;SR-Q-G-SA	
4. Property Code	5. Property	y Name	6. Well No.	
23810	MESQUITE	ESTATE	016	
7. OGRID No.	8. Operato	r Name	9. Elevation	
13837	MACK ENER	RGY CORP	3647	

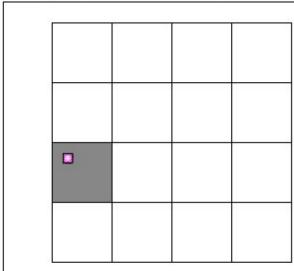
#### 10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	20	17S	29E		2310	S	330	w	EDDY

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

UL - Lot	Section	Township		Range	e Lot Idn		Feet From	N/S Line		Feet From	E/W Line	County
12. Dedicated Acres 40.00			13. Joint or Intill		14. Consolidation Code		15. Order No.					

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Surveyed By: Gary Eidson Date of Survey: 12/21/2005 Certificate Number: 12641

## **Permit Comments**

Operator: MACK ENERGY CORP, 13837
Well: MESQUITE STATE #016
API: 30-015-34497

Created By	Comment	Comment Date
LOWSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	12/22/2005

## Permit Conditions of Approval

Operator: MACK ENERGY CORP, 13837
Well: MESQUITE STATE #016
API: 30-015-34497

OCD Reviewer	Condition
BArrant	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
BArrant	As noted, operator to drill surface hole w/fresh water mud.