State of New Mexico

Form C-101 Permit 120698

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

MACK	r Name and Address ENERGY CORP	OGRID Number 13837		
25 mg 27 mg	DBOX 960 SIA , NM 88211	3. API Number 30-025-39923		
4. Property Code 38328	5. Property Name CRANE STATE COM	6. Weti No. 001H		

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	31	14S	32E	2	1675	N	330	W	LEA

8. Pool Information

TULK:WOLFCAMP	to the state of th	60420

Additional Well Information

M 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	NOT THE RESIDENCE OF THE PARTY	Traditional II CH Throin	III III	
9. Work Type New Well	10. Wett Type OIL	11. Cable/Rotary	12. Lesse Type State	13. Ground Level Elevation 4370
14. Multiple N	15. Proposed Depth	16. Formation Wolfcamp		
Depth to Ground	water	Distance from nearest fresh water	r well	Distance to nearest surface water
t: Liner: Synthetic Closed Loop Syste	mils thick	Clay Pit Volume: bbl:	s Dritting Method: Fresh Water Brine D	Diesel/Oil-based Gas/Air

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	1200	0
Int1	8.75	7	26	8700	1000	0
Prod	6.125	4.5	11.6	13384	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 8 3/4 hole to 8700' run 7" casing and cement to surface. Drill 6 1/8 hole to 13,384' run 4 1/2 casing from 8000 to TD, set with liner hanger and Peak Completion Packers.

Proposed Blowout Prevention Program

		8	
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	OIL CONSERVATION DIVISION Approved By: Paul Kautz		
NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .			
Printed Name: Electronically filed by Jerry Sherrell	Title: Geologist		
Title: Production Clerk	Approved Date: 10/4/2010 Expiration Date: 10/4/2012		
Email Address: jerrys@mackenergycorp.com			
Date: 9/28/2010 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 I

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 120698

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
30-025-39923	60420	TULK;WOLFCAMP
4. Property Code	5. Property Na	ne 6. Wett No.
38328	CRANE STATE	COM 001H
7. OGRID No.	8. Operator Na	ne 9. Elevation
13837	MACK ENERGY	CORP 4370

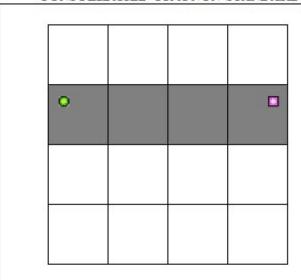
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	31	14S	32E	2	1675	N	330	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
H	31	14S	32E	H	1675	N	330	E	LEA
250000000000000000000000000000000000000	cated Acres 5.46	13. J	oint 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: 9/28/2010

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: Ronald Eidson Date of Survey: 9/2/2010 Certificate Number: 3239

Permit Comments

Operator: MACK ENERGY CORP , 13837 Well: CRANE STATE COM #001H

API: 30-025-39923

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.	9/23/2010
DMULL	OCD Hobbs has received form C-144CLEZ. OCD Permit Number P1-02514.	10/4/2010

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837 Well: CRANE STATE COM #001H

API: 30-025-39923

OCD Reviewer	Condition
DMULL	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
DMULL	Will require a directional survey with the C-104