<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
<u>District II</u>

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 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

Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-101 August 1, 2011

Permit 148420

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

MACK	r Name and Address ENERGY CORP	OGRID Number 13837		
PO Box 960 Artesia, NM 88211		3. API Number 30-025-40563		
4. Property Code	5. Property Name	6. Wett No.		
36929	ARKANSAS STATE			

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	35	188	36E	H	2120	N	330	E	LEA

8. Pool Information

ARKANSAS JUNCTION:BONE SPI	RING	2340

Additional Well Information

			. Idultional Well Inform	Intion		
9. Work Type New Well	10. We	11 Type IL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3762	
14. Multiple	15. Proposed Depth		16. Formation	17. Contractor	18. Spud Date	
N 8700		700	Bone Spring	9/20/2008		
Depth to Ground	water		Distance from nearest fresh water	r well	Distance to nearest surface water	

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	1600	800	0
Prod	7 875	5.5	17	8700	1165	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 1600', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 8700' test Bone Spring formation, run 5 1/2 casing and cement. Note: On production string a hole caliper will be run and will figure cement with excess, attempt to circulate.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	3000	3000	

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			
	neral permit , or an (attached) alternative	Approved By: Paul Kautz			
Printed Name: Electronic	ally filed by Jerry Sherrell	Title: Geologist			
Title: Production Clerk		Approved Date: 5/11/2012	Expiration Date: 5/11/2014		
Email Address: jerrys@n	nec.com				
Date: 5/9/2012	Phone: 505-748-1288	Conditions of Approval Atta	sched		

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Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505 Form C-102 August 1, 2011

Permit 148420

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-025-40563	2. Pool Code 2340	ARKANSAS.	3. Pool Name JUNCTION;BONE SPRING
4. Property Code 36929	5. Property Name ARKANSAS STATE		6. Well No. 003
7. OGRID No. 13837	8. Operator Name MACK ENERGY CORP		9. Elevation 3762

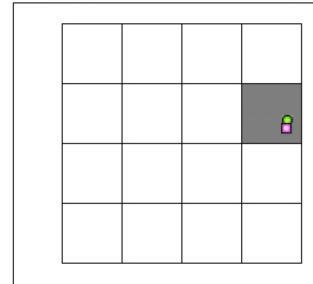
10. Surface Location

0	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	Н	35	188	36E		2120	N	330	E	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
Н	35	188	36E	H	2285	N	355	E	LEA
	cated Acres	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: 5/9/2012

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: 9/16/2008 Certificate Number: 3239

Permit Comments

Operator: MACK ENERGY CORP, 13837

Well: ARKANSAS STATE #003

API: 30-025-40563

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.	5/9/2012
pkautz	Land s/S	5/9/2012

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837 Well: ARKANSAS STATE #003

API: 30-025-40563

OCD Reviewer	Condition
pkautz	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