

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Permit 992

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address MACK ENERGY CORP PO Box 960 Artesia, NM 88211-0960		OGRID Number 13837
		API Number 30-015-33464
Property Code 34011	Property Name PATRIOT STATE COM	Well No. 001

Surface Location

UL or Lot L	Section 21	Township 17S	Range 29E	Lot Idn L	Feet From 2310	N/S Line S	Feet From 660	E/W Line W	County Eddy
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Proposed Pools

GRAYBURG;MORROW (GAS) 77840

Work Type New Well	Well Type GAS	Cable/Rotary	Lease Type State	Ground Level Elevation 3605
Multiple N	Proposed Depth 13000	Formation Ellenburger	Contractor	Spud Date

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	300	400	0
Int1	12.25	9.625	32	4350	1500	0
Prod	7.875	5.5	17	13000	3500	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill to 300, run 13 3/8 casing and cement. Drill to 4350, run 9 5/8 casing and cement. Drill to 13,000 test Morrow zone. Put well on production. Note: On production string a fluid caliper will be run and will figure cement to tie back to 9 5/8 casing.
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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Electronically Signed By: Jerry Sherrell

Title: Production Clerk

Date: 05/25/2004

Phone: 505-748-1288

OIL CONSERVATION DIVISION

Electronically Approved By: Bryan Arrant

Title: Geologist

Approval Date: 06/17/2004

Expiration Date: 06/17/2005

Conditions of Approval:

There are conditions. See Attached.