

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

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address Mack Energy Corportation PO Box 960 Artesia, NM 88211-0960		OGRID Number 13837
		API Number 30-15-32989
Property Code 32584	Property Name IMPALA STATE	Well No. 002

Surface Location

UL or Lot P	Section 36	Township 17S	Range 31E	Lot Idn	Feet From 990	N/S Line S	Feet From 380	E/W Line E	County Eddy
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Proposed Pools

MALJAMAR;GRAYBURG-SAN ANDRES 43329

Work Type New Well	Well Type Oil	Cable/Rotary	Lease Type State	Ground Level Elevation 3833
Multiple N	Proposed Depth 6000	Formation San Andres	Contractor	Spud Date 9/20/2003

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	800	650	0
Int1	12.25	8.625	32	2200	900	0
Prod	7.875	5.5	17	6000	925	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill to 800, run 13 3/8 casing and cement. Drill to 2200, run 8 5/8 casing and cement. Drill to 6000 and test San Andres Zone, run 5 1/2 casing and cement. Put well on production. Note: On production string a fluid caliper will be run and will fogue cement with 25% excess, attempt to circulate.

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: 9/9/2003	Phone: 505-748-1288

OIL CONSERVATION DIVISION	
Electronically Approved By: Bryan Arrant	
Title: Geologist	
Approval Date: 9/11/2003	Expiration Date: 9/11/2004
Conditions of Approval: No Conditions	

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Form C-102

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-15-32989	Pool Name MALJAMAR;GRAYBURG-SAN ANDRES	Pool Code 43329
Property Code 32584	Property Name IMPALA STATE	Well No. 002
OGRID No. 13837	Operator Name Mack Energy Corportation	Elevation 3833

Surface And Bottom Hole Location

UL or Lot P	Section 36	Township 17S	Range 31E	Lot Idn	Feet From 990	N/S Line S	Feet From 380	E/W Line E	County Eddy
Dedicated Acres 40		Joint or Infill		Consolidation Code		Order No.			

OPERATOR CERTIFICATION

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

Electronically Signed By: Jerry Sherrell
Title: Production Clerk
Date: 9/9/2003

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.

Electronically Signed By: Gary Eidson
Date of Survey: 8/21/2003
Certificate Number: 12641

APD Comments

Operator: 13837 Mack Energy Corpotation

Well: IMPALA STATE 002

User Name	Comment	Comment Date
JWSHERRELL	The H2S concentration of San Andres wells within this section are low enough, that a contengency plan for this well or lease need not be submitted.	9/9/2003