

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 Corporation PO Box 960 Artesia, NM 88211-0960		OGRID Number 13837
		API Number 30-25-36309
Property Code 30427	Property Name SAPPHIRE STATE	Well No. 005

Surface Location

UL or Lot A	Section 23	Township 23S	Range 36E	Lot Idn	Feet From 990	N/S Line N	Feet From 490	E/W Line E	County Lea
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Proposed Pools

WILDCAT

Work Type New Well	Well Type Oil	Cable/Rotary	Lease Type State	Ground Level Elevation 3354
Multiple N	Proposed Depth 4500	Formation San Andres Formation	Contractor	Spud Date 7/1/2003

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	300	350	0
Int1	12.25	9.625	40	3700	1550	0
Prod	7.875	5.5	17	4500	800	0

Casing/Cement Program: Additional Comments

Mack Energy Proposes to drill to 300, run 13 3/8 casing and cement. Drill to 3700, run 9 5/8 casing and cement. Drill to 4500 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 figure 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: 6/23/2003	Phone: 505-748-1288

OIL CONSERVATION DIVISION	
Electronically Approved By: Paul Kautz	
Title: Geologist	
Approval Date: 6/23/2003	Expiration Date: 6/23/2004
Conditions of Approval: No Conditions	

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Energy, Minerals and Natural Resources

Form C-102

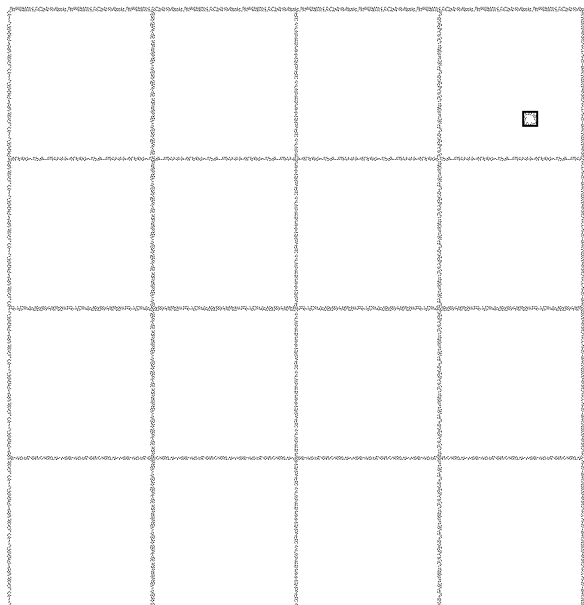
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WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-25-36309	Pool Name WILDCAT	Pool Code
Property Code 30427	Property Name SAPPHIRE STATE	Well No. 005
OGRID No. 13837	Operator Name Mack Energy Corpotation	Elevation 3354

Surface And Bottom Hole Location

UL or Lot A	Section 23	Township 23S	Range 36E	Lot Idn	Feet From 990	N/S Line N	Feet From 490	E/W Line E	County Lea
Dedicated Acres 40		Joint or Infill		Consolidation Code		Order No.			



<p align="center">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p>Electronically Signed By: Jerry Sherrell Title: Production Clerk Date: 6/23/2003</p>
<p align="center">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Electronically Signed By: Ronald Eidson Date of Survey: 6/16/2003 Certificate Number: 3239</p>