

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 IV1220 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 1152

**APPLICATION FOR PERMIT TO DRILL**

Operator Name and Address

MACK ENERGY CORP  
PO Box 960  
Artesia, NM 88211-0960

OGRID Number

13837

API Number

30-015-33506

Property Code

34089

Property Name

BULLDOG STATE

Well No.

001

**Surface Location**

UL or Lot P	Section 19	Township 18S	Range 23E	Lot Idn P	Feet From 660	N/S Line S	Feet From 660	E/W Line E	County Eddy
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**Proposed Pools**

HOPE PENN, SOUTH (GAS) (ABANDONED) 78600

Work Type New Well	Well Type GAS	Cable/Rotary	Lease Type State	Ground Level Elevation 4045
Multiple N	Proposed Depth 8500	Formation Pennsylvanian	Contractor	Spud Date 07/01/2004

**Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	1400	1000	0
Prod	7.875	5.5	17	8500	1700	0

**Casing/Cement Program: Additional Comments**

Mack Energy proposes to drill to 1400, run 8 5/8 casing and cement. Drill to 8500 test morrow zone, run 4 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: 06/29/2004

Phone: 505-748-1288

### OIL CONSERVATION DIVISION

Electronically Approved By: Bryan Arrant

Title: Geologist

Approval Date: 07/16/2004

Expiration Date: 07/16/2005

Conditions of Approval:

There are conditions. See Attached.

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Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-144  
March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: **Mack Energy Corporation** Telephone: **(505)748-1288** e-mail address: **jerrys@mackenergycorp.com**  
Address: **P.O. Box 960, Artesia, NM 88211-0960**  
Facility or well name: **Bulldog State #1** API #- \_\_\_\_\_ U/L or Qtr/Qtr **P** Sec **19** T **18S** R **23E**  
County: **Eddy** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

**Pit**

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness **12** mil Clay ☐ Volume **2000** bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not, \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

(20 points)

50 feet or more, but less than 100 feet

(10 points)

100 feet or more

(0 points) **0 Points**

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes

(20 points)

No

(0 points)

**0 Points**

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

1000 feet or more

(0 points)

**10 Points**

**Ranking Score (Total Points)**

**10 Points**

**If this is a pit closure:** (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location:

onsite ☐ offsite ☐ If offsite, name of facility: \_\_\_\_\_ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒, or an (attached) alternative OCD-approved plan ☐

Date: **6/29/04**

Printed Name/Title: **Jerry W. Sherrell/Production Clerk**

Signature: *Jerry W. Sherrell*

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

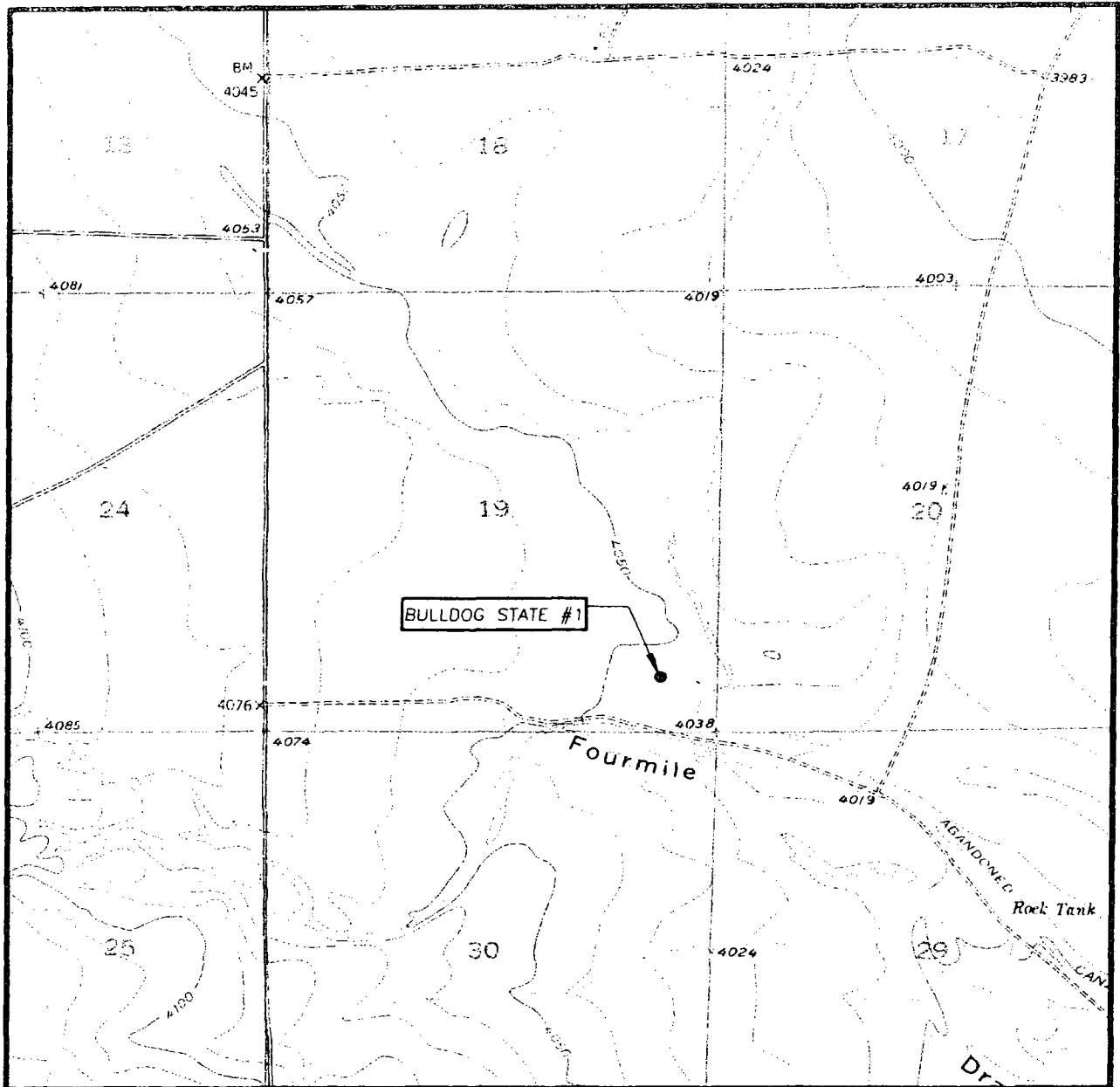
Approved: **JUL 07 2004**

Date: \_\_\_\_\_

Printed Name/Title: *Wild Ap II*

Signature: *Wild Ap II*

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
ANTELOPE SINK, N.M. - 10'

SEC. 19 TWP. 18-S RGE. 23-E

SURVEY N.M.P.M.

COUNTY EDDY

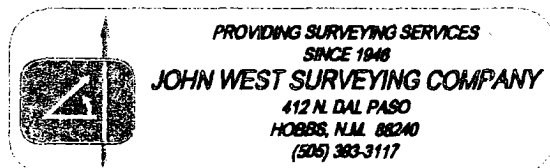
DESCRIPTION 660' FSL & 660' FEL

ELEVATION 4045'

OPERATOR MACK ENERGY CORPORATION

LEASE BULLDOG STATE

U.S.G.S. TOPOGRAPHIC MAP  
ANTELOPE SINK



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Form C-102

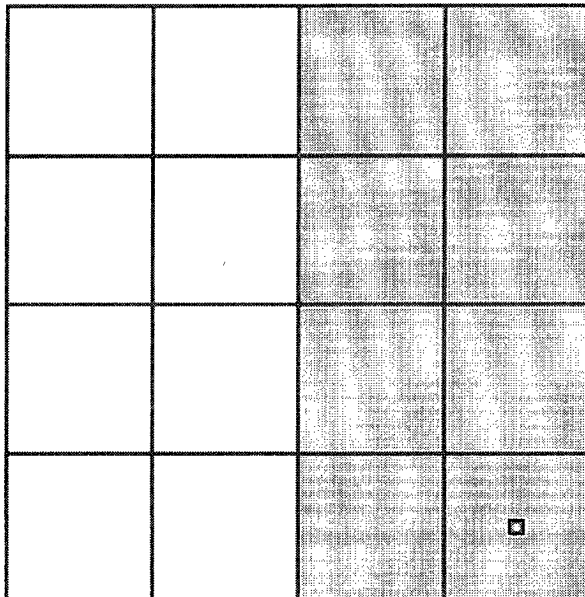
Permit 1152

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-015-33506	Pool Name HOPE PENN, SOUTH (GAS) (ABANDONED)	Pool Code 78600
Property Code 34089	Property Name BULLDOG STATE	Well No. 001
OGRID No. 13837	Operator Name MACK ENERGY CORP	Elevation 4045

**Surface And Bottom Hole Location**

UL or Lot P	Section 19	Township 18S	Range 23E	Lot Idn P	Feet From 660	N/S Line S	Feet From 660	E/W Line E	County Eddy
Dedicated Acres 320	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: 06/29/2004

**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: Gary Eidson

Date of Survey: 05/06/2004

Certificate Number: 12641

Permit Comments

Operator: MACK ENERGY CORP , 13837  
Well: BULLDOG STATE #001

User Name	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.	6/29/2004

Permit Conditions Of Approval  
C-101, Permit 1152

Operator: MACK ENERGY CORP , 13837

Well: BULLDOG STATE #001

OCD Reviewer	Condition
BARRANT	Operator to drill surface hole with air or fresh water mud only.
BARRANT	Notify OCD time of spud and time to witness the cementing of the surface and production strings of casing.