

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

Artesia, NM 88210

Form 3160-3  
(July 1992)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*

(Other instructions on  
reverse side)

FORM APPROVED

OMB NO. 1004-0136

Expires: February 28, 1995

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☐DEEPEN ☐

## 1b. TYPE OF WELL

OIL ☐GAS ☒

WELL

WELL

OTHER

SINGLE ☐MULTIPLE ☐

ZONE

ZONE

## 2. NAME OF OPERATOR

Gruy Petroleum Management Co.

## 3. ADDRESS AND TELEPHONE NO.

P.O. Box 140907 Irving TX 75014 972-401-3111

## 4. LOCATION OF WELL

(Report location clearly and in accordance with any State requirements.)\*

660' FSL &amp; 1650' FEL

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

6.5 miles Southeast of Artesia New Mexico

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, T.O

(Also to nearest drig. unit line, if any) 660'

## 16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

2820'

## 19. PROPOSED DEPTH

11500'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3513'

## 22. APPROX. DATE WORK WILL START\*

3-15-00

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	H-40 13 3/8"	48 #	304'	375 sx circulate
11"	K-55 8 5/8"	24 #	3230'	1950 sx circulate
7 7/8"	N-80/S-95 5 1/2"	17 #	11300'	733 sx TOC 8500'

Abandon Morrow perms at 11138' - 11150' with CIBP set at 11100' w 35' cement on top.

Reperf squeezed Atoka perms at 10658' - 10670'.. Evaluate for breakdown or acid treatment and turn well to production.

RECEIVED

JAN 06 2005

OCD-ARTESIA

IN ABOVE SPACE, DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone.  
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.24 SIGNED Zeno Fane TITLE Mgr. Ops. Admin DATE 12-29-04

(This space for Federal or State office use)

PERMIT No.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL IF ANY:

APPROVED BY (ORIG. SCD.) ALEXIS C. SWOBODA

TITLE PETROLEUM ENGINEER

DATE

JAN 05 2005

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# **RECOMMENDED WORKOVER PROCEDURE**

## **EMPIRE 20 FED COM #2**

### **EDDY COUNTY, NEW MEXICO**

#### **WELL DATA**

**SPUD DATE:** 4/18/00  
**PERM. ZERO PT.:** KB=3530', DF=3529', GL=3513'  
**TOTAL DEPTH:** 11,300'  
**SURFACE CSG:** 13-5/8" (17-1/2" hole), 48#, H-40 @ 404'  
**INTER CSG:** 8-5/8" (11" hole), 32#, J-55 @ 3230'  
**PROD CSG:** 5-1/2" (7-7/8" hole), 17#, N-80 & S-95 @ 11300'  
**TBG/PKR:** 2-3/8" tbg w/ Guiberson Uni VI @ 10826' & on/off tool  
**OPEN PERFS:** Morrow 11138-11150'  
**SQZ'd PERFS:** Atoka 10658-10670'

**OBJECTIVE :** Morrow has depleted (71 hr SIBHP 256 psi @ 11143') and will no longer produce. Recommend abandoning Morrow and recompleting to Atoka. The Atoka was squeezed in 2001 so that the Morrow could be frac'd.

**\*\*\*\*\* SAFETY IS TOP PRIORITY \*\*\*\*\***

#### **PROCEDURE:**

1. MIRU wellservice rig. Bleed off pressure. Load tbg. ND wellhead. NU BOP's and test.
2. Rls pkr. POH w/ tbg & pkr. Have pkr re-dressed.
3. MIRU HOWCO. Install pack-off. Run GR/JB to +/- 11110'. WL set CIBP +/- 11100'. Load well w/ 7% KCL wtr. Test plug. Dump ~~2 ex-sand~~ on plug.  
351 CEMENT ZF
4. RIH w/ csg gun and GR/CCL tools. Run strip log to get on depth. Perforate Atoka 10658-10670', 6 spf by Schlumberger Platform Express Compensated Neutron-LithoDensity Log dated 05/19/00. RD e-line. **NOTE:** Have wireline set packer located in case needed.
5. Test in hole w/ 5-1/2" re-dressed pkr on 2-3/8" workstring. Set pkr +/-10600'. Load annulus and test.
6. ND BOP. NU WH.
7. Swab test perfs 10658-10670'.
8. Evaluate for breakdown and/or acid job.
9. RD & RR.
10. Turn well to production.

# GRUY PETROLEUM MANAGEMENT CO.

Spudded 4/18/00  
Turkey Track

EMPIRE 20 FED COM #2

API 30-015-31046

## CURRENT COMPLETION

Sherry Reid Carroll 12/1/04

KB: 3530'  
DF: 3529'  
GL: 3513'

660' FSL & 1650' FEL  
Sec 20, T-18-S, R-29-E  
Unit Letter O  
Eddy County, New Mexico

Casing Strings:  
? conductor

13-3/8" (17-1/2" hole), 48#, H-40  
@ 404' w/ 375 sx cmt  
TOC @ surface - circ

8-5/8" (11" hole), 32#, J-55  
@ 3230' @ 3230' w/ 1950 sx cmt  
TOC @ surface - circ

5-1/2" (7-7/8" hole), 17#, N-80 & S-95  
@ 11300' w/ DV @ 6998'  
1st stg - 445 sx - circ off DV  
2nd stg - 500 sx - TOC @ 3050' (TS)

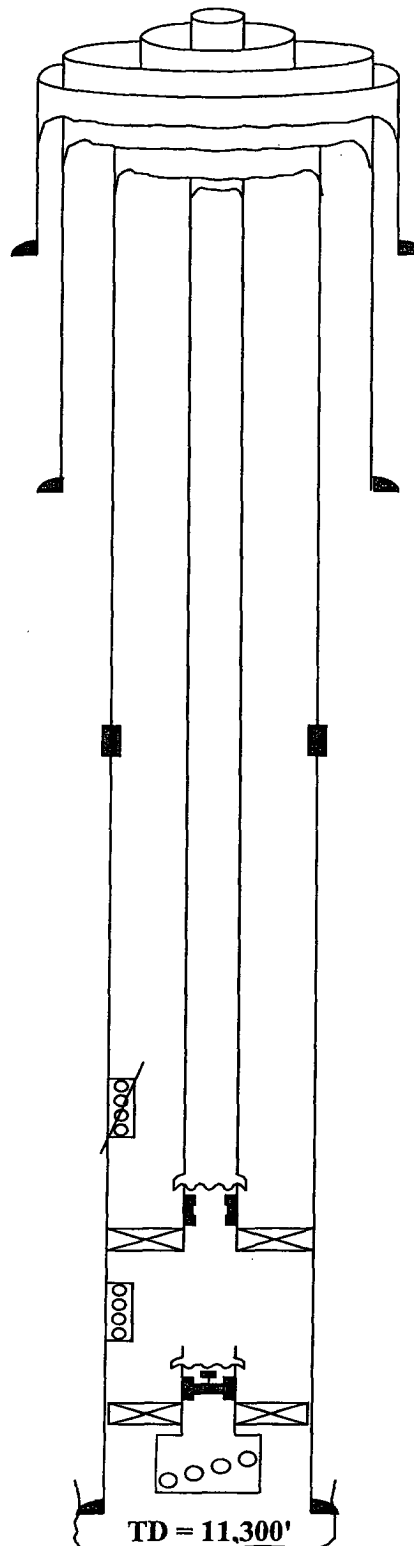
Tubing String:  
2-3/8" tbg

Atoka Perfs:  
10658-10670', 6 spf (6/00)  
Sqz'd 6/01 in order to frac Morrow

Morrow Perfs:  
11138-11150', 6 spf (5/00)  
PwrPerf'd, Frac'd

Guiberson Uni-VI @ 10826'  
w/ on/off tool

Fish: +/- 6' tbg, on/off tool, PLS pkr,  
PwrPerf guns & accessories  
TOF @ 11156', Btm @ 11247'



DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II  
P.O. Drawer 22, Artesia, NM 88211-0719

DISTRICT III  
1000 Rio Brason Rd., Arisco, NM 87410

DISTRICT IV  
P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-31046	Pool Code 86445	Pool Name Turkey Track Atoka, North
Property Code 21727	Property Name EMPIRE 20 FEDERAL COM	Well Number 2
OGED No. 162683	Operator Name GRUY PETROLEUM MANANGEMENT CO.	Elevation 3513

Surface Location

UL or lot No. 0	Section 20	Township 18S	Range 29E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 1650	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill Y	Consolidation Code C	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

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Zeno Farris</u> Signature</p> <p><u>Zeno Farris</u> Printed Name</p> <p><u>Mgr. Operations Admin.</u> Title</p> <p><u>12-29-04</u> Date</p>
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p><u>JANUARY 17, 2000</u> Date Surveyed</p> <p><u>RONALD E IDSON</u> Signature &amp; Seal of Professional Surveyor</p> <p><u>00-11-0059</u> Professional Surveyor License No.</p> <p><u>01-21-2000</u> Expiration Date</p> <p>Certificate No. <u>RONALD E IDSON</u> 3239 <u>GARY IDSON</u> 12641 <u>MACON McDONALD</u> 12185</p>