

30-239-24331

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-101  
Revised 10-1-78

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LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Unit Agreement Name
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. Form or Lease Name SCHMITZ FEDERAL 34
2. Name of Operator MOBIL PRODUCING TX & NM INC. (MOBIL EXPLORATION & PRODUCING U. S. INC.) AGENT		9. Well No. 333
3. Address of Operator P. O. Box 5444, Denver, CO 80217-5444 (Environmental/Regulatory)		10. Field and Pool or Muds W. Puerto-Chiquito MUDS Basin Dakota W.C. DAKOTA
4. Location of Well UNIT LETTER J LOCATED 1800 FEET FROM THE South LINE AND 1800 FEET FROM THE East LINE OF SEC. 34 TWP. 24 N SEC. 1 W RMPM		12. County Rio Arriba
19. Proposed Depth 7900 7850		19A. Formation Dakota
20. Rotary or C.T. Rotary		
21. Elevations/Show weather DE, RT, etc. 7273 GR. 7274		21A. Kind & Status Plug. Bond Statewide - Active
21B. Drilling Contractor To be determined		22. Approx. Date Work will start ASAP

23.

## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	8 1/2	30# K-55	± 400	330 FF3	Surface

SEE ATTACHED DRILLING PROGRAM FOR ALL DETAILS

cc: U. S. Department of Interior  
Bureau of Land Management  
1235 La Plata Highway  
Farmington, NM 87401

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE SLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed B. R. Maynard Title Regulatory Compliance Manager Date November 3, 1988

(This space for Sense Use)

APPROVED BY Ernie Bush TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE NOV 07 1988

CONDITIONS OF APPROVAL, IF ANY:

Hold C-104 for Boreage Consolidation

**Production:** Drill 8-3/4" hole. Run 5-1/2" 17# K-55 LT&C casing to 7850'. It is planned to foam cement this string to surface using a constant nitrogen rate method. The slurry will consist of nitrified Lightweight Cement with foam stabilizer and lost circulation material followed by neat Lightweight Cement. Approximately 250 psi will be held on the annulus to help maintain the integrity of the foamed cement. Volumes will be based on the open hole caliper logs plus 15% excess. A cap will be pumped down the annulus after the job which will consist of Class 'B' + 10% Thixad + 2% CaCl<sub>2</sub>. The cap will be designed to cover ±400'. A two-stage job will be designed as a backup if it is determined that the formations needing coverage or isolation can support the hydrostatic pressure exhibited.

$$\begin{aligned}\text{Lead Volume (gauge):} & \quad (6000'-0')(.1733 \text{ cu ft/ft}) \\ & = 1040 \text{ cu ft}\end{aligned}$$

$$\begin{aligned}\text{Tail Volume (gauge):} & \quad (7850'-6000')(.1733 \text{ cu ft/ft}) \\ & = 321 \text{ cu ft}\end{aligned}$$

$$\text{Total Gauge Volume:} \quad 1361 \text{ cu ft}$$

#### 4. **BLOWOUT PREVENTER EQUIPMENT:**

Out from under surface casing, a minimum of an 8-5/8" x 11" 3000 psi system will be utilized with a minimum arrangement of two sets of hydraulically operated rams (a blind ram and a pipe ram). The choke manifold will have a minimum of a 3000 psi working pressure. See attached diagrams. The BOP's will be hydraulically tested to their working pressure after nipping up and after any use under pressure. The pipe rams will be tested operationally every 24 hours and the blind rams will be tested each time the pipe is brought out of the hole. Such checks of the BOP's will be reported on the daily IADC report.

Accessories to the BOP will include an upper and lower kelly cock, floor safety valve, drill string BOP and a choke manifold with a pressure rating at least as high as the BOP's.

Maximum Anticipated Surface Pressure = 3000 psi.

# WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-120  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

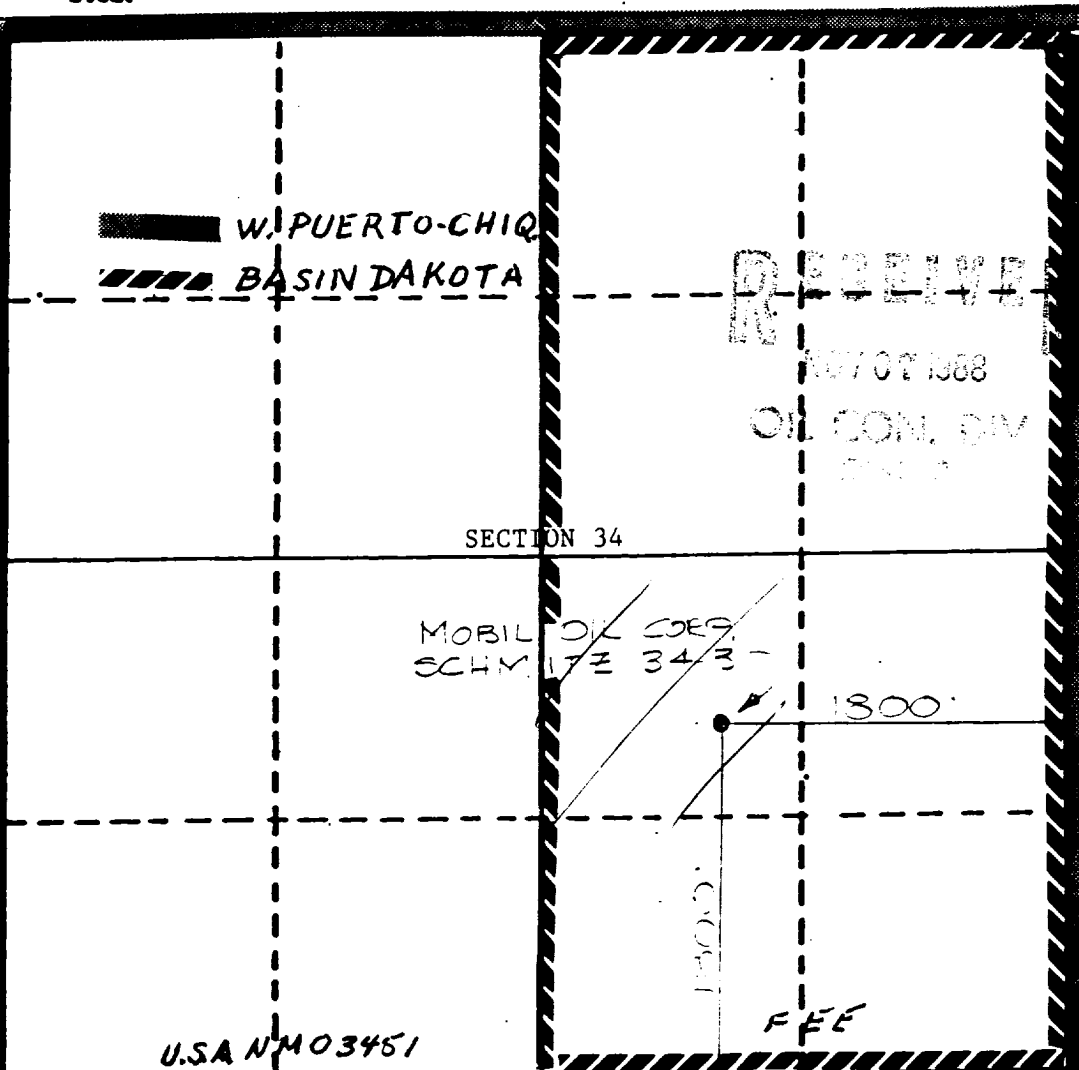
Operator <b>PRODUCING TX &amp; NAT'L INC.</b> MOBIL OIL CORPORATION		Lessee <b>FEDERAL</b> SCHMITZ <b>34</b>		Well No. <b>3</b>
Unit Letter <b>J</b>	Section <b>34</b>	Township <b>24 NORTH</b>	Range <b>1 WEST</b>	County <b>RIO ARriba</b>
Actual Footage Location of Well				
1800	feet from the	<b>SOUTH</b>	line and	1800
feet from the	<b>EAST</b>	line		
Ground Level Elev. <b>7273.8 7274</b>	Producing Formation <b>MANCOS/DAKOTA</b>	Pool <b>W. Puerto Chiquito - MANCOS</b> <b>W.C. DAKOTA</b>	Dedicated Acreage <b>690/40</b>	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



## CERTIFICATION

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

*B. R. Maynard*

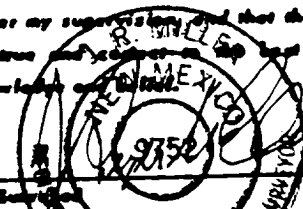
Name  
B. R. Maynard

Position  
Regulatory Compliance Mgr.

Company  
MEPUS

Date  
November 3, 1988

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 knowledge and belief.



Date Subscribed  
OCTOBER 19, 1988

Registered Professional Surveyor  
and/or Land Surveyor

J. ROGER MILLER

Certificate No.  
9752