

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-039-22848  
5. LEASE DESIGNATION AND SERIAL NO.  
NM 28693 NM0384594

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

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

## 2. NAME OF OPERATOR

COTTON PETROLEUM CORPORATION

## 3. ADDRESS OF OPERATOR

717 17th St. Suite 2200 Denver, Colorado 80202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1800' FSL & 2000' FWL  
At proposed prod. zone

Section 3

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

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

480

## 19. PROPOSED DEPTH

6225'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

643.32

## 20. ROTARY OR CABLE TOOLS

Rotary tools

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

7345' GR

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

October 15, 1981

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	300'	375 sxs
8 3/4"	7"	23#	5500'	To be determined
6 1/4"	4 1/2"	10.5#	6225'	To be determined

PERMITTED BY STATE AUTHORIZED ARE

SUBJECT TO ANY STATE REQUIREMENTS WITH ATTACHED  
"GENERAL REG. INFORMATION"

Note Gen. Regs 4B &amp; 15C

It is proposed to drill this well with rotary tools using mud as a circulation to the top of the Niobrara, then air through the Niobrara to total depth. The anticipated completion attempts will be in the Niobrara. Production casing will be cemented in such a way as to protect the Ojo Alamo and Pictured Cliffs. The reserve pit will be fenced on three sides before spudding. The fourth side will be fenced when rig moves out.

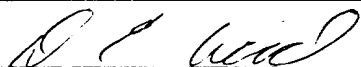
## Estimated Formation Tops

Ojo Alamo	1951'	Niobrara	5721'
Pictured Cliffs	2111'	Niobrara Marker	5875'
Mesaverde	4141'	TD	6225'

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. 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



TITLE

Division Production Manager

DATE

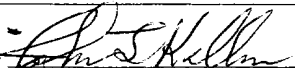
9-8-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY



TITLE

Acting Dist. Super.

DATE

OCT 27 1981

CONDITIONS OF APPROVAL, IF ANY:

## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

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

Operator <b>COTTON PETROLEUM CORPORATION</b>			Lease <b>BADLANDS-FEDERAL 3</b>		Well No. <b>1</b>
Unit Letter <b>K</b>	Section <b>3</b>	Township <b>23N</b>	Range <b>1W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1800</b> feet from the <b>South</b> line and <b>2000</b> feet from the <b>West</b> line					
Ground Level Elev: <b>7345</b>	Producing Formation <b>Manco's</b>	Pool Extension <b>W. Puerto Chiquito Manco's</b>		Dedicated Acreage: <b>643.32</b> <del>643</del> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

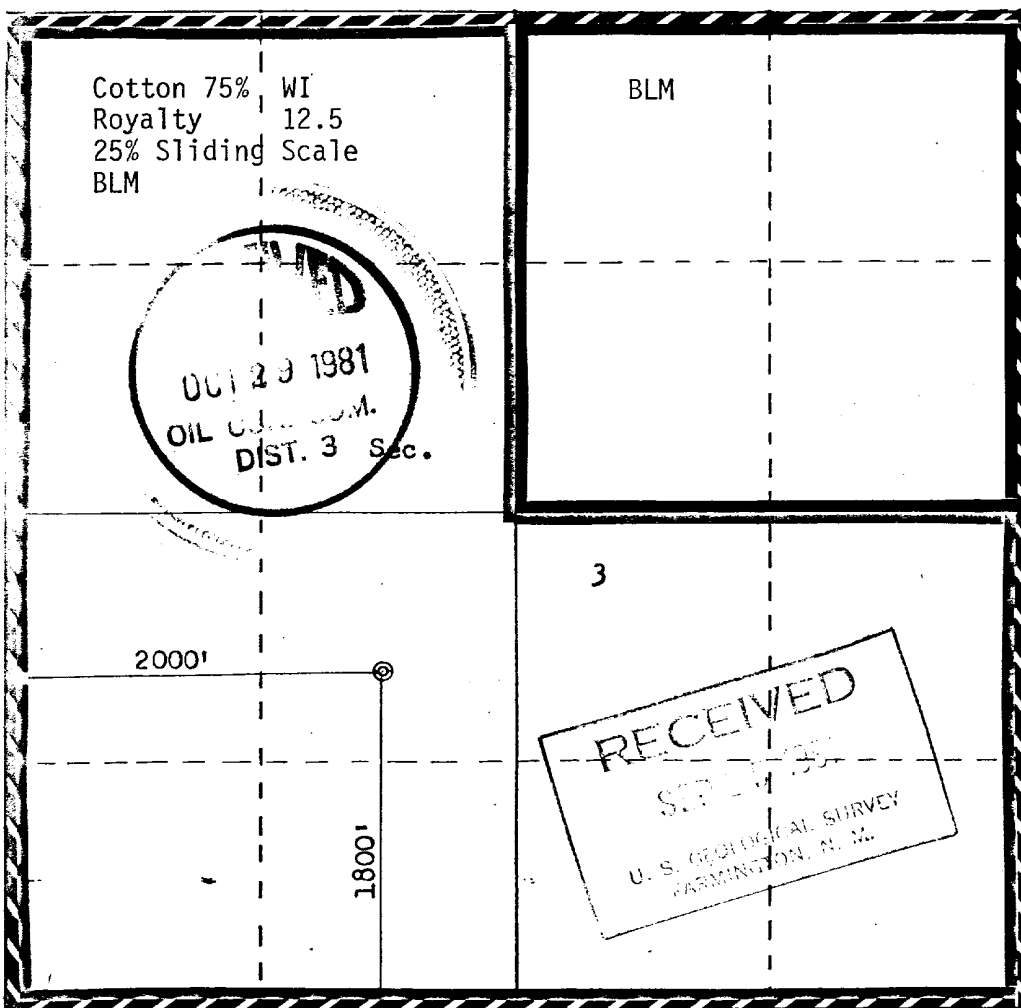
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation Communitization agreement will be circulated

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 communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	<i>[Signature]</i>
Position	Division Production Manager
Company	Cotton Petroleum Corporation
Date	September 8, 1981
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 Surveyed	August 20, 1981
Registered Professional Engineer and Land Surveyor	<i>[Signature]</i>
Certificate No.	3950

