

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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"/>		5. LEASE DESIGNATION AND SERIAL NO. Contract No. -129	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
2. NAME OF OPERATOR Cotton Petroleum Corporation		7. UNIT AGREEMENT NAME NA	
3. ADDRESS OF OPERATOR 717 17th Street, Suite 2200, Denver, Colorado 80202		8. FARM OR LEASE NAME Apache	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1810' FSL & 840' EEL Section 23		9. WELL NO. 31	
At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT South Blanco P.C. E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* MAY 24 1982		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23-T24N-R4W NMPM	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 840'		12. COUNTY OR PARISH Rio Arriba	
16. NO. OF ACRES IN LEASE 2560		13. STATE New Mexico	
17. NO. OF ACRES ASSIGNED TO THIS WELL 160		18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	
19. PROPOSED DEPTH 3200'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7027' GR		22. APPROX. DATE WORK WILL START* July 26, 1982	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	100'	150 sxs circ to surf
7-7/8"	4-1/2"	10.5#	3200'	700 sxs

It is proposed to drill this well with rotary tools, using drilling mud for circ. through the Picture Cliffs formation. All possible productive intervals in the Picture Cliffs will be completed.

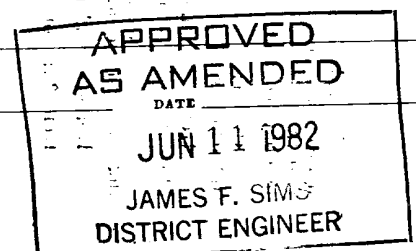
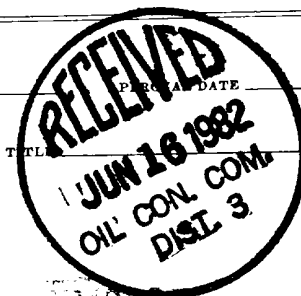
Estimated Formation Tops:	Ojo Alamo	2460'	Fruitland	2880'
	Kirtland	2660'	Picture Cliffs	3000'

The SE 1/4 of Section 23 is dedicated to this well. The gas produced from this well will be sold to Northwest Pipeline Company.

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 [Signature] TITLE Division Production Manager DATE 5-19-82  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

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

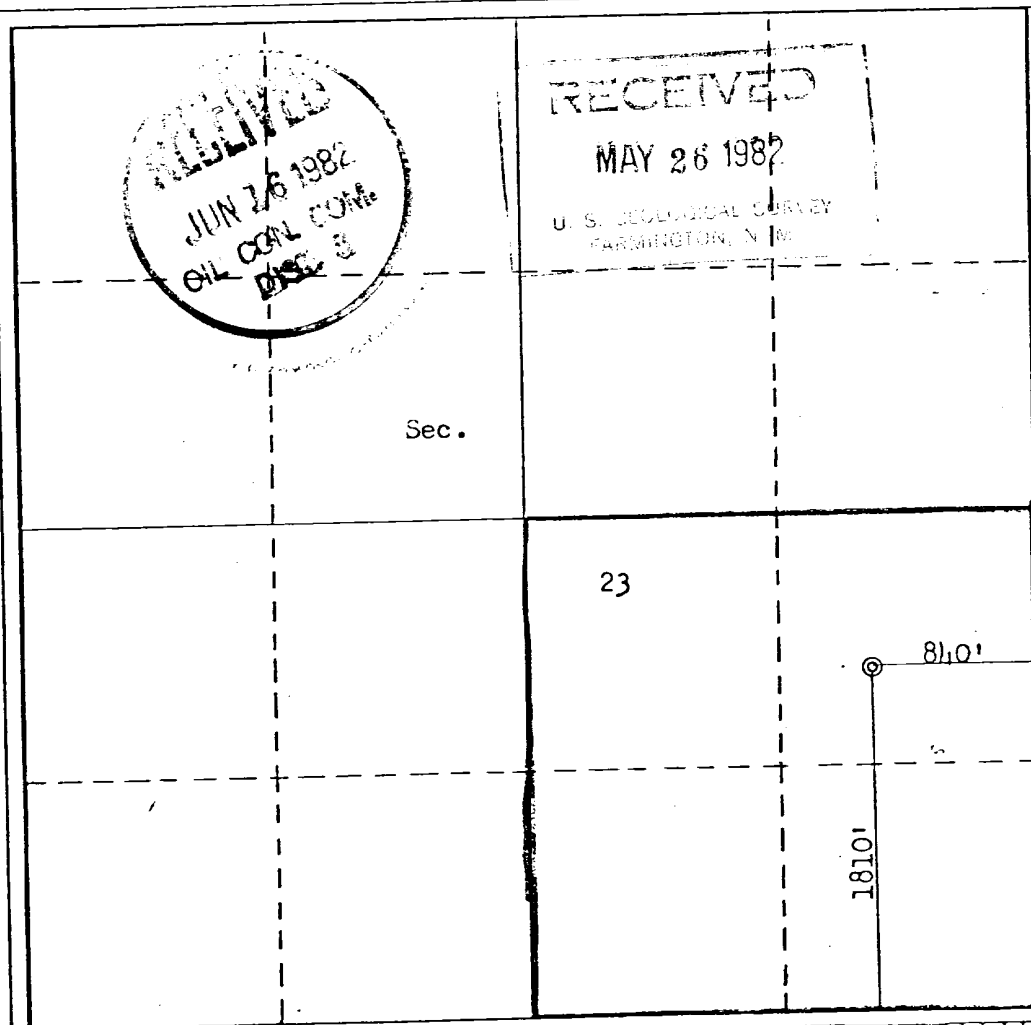
Operator <b>COTTON PETROLEUM CORPORATION</b>			Lease <b>APACHE</b>		Well No. <b>31</b>
Unit Letter <b>I</b>	Section <b>23</b>	Township <b>24N</b>	Range <b>4W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1810</b> feet from the <b>South</b> line and <b>840</b> feet from the <b>East</b> line					
Ground Level Elev. <b>7027</b>	Producing Formation <b>Picture Cliffs</b>		Pool <b>So. Blanco Picture Cliffs</b>	Dedicated Acreage: <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 \_\_\_\_\_

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.



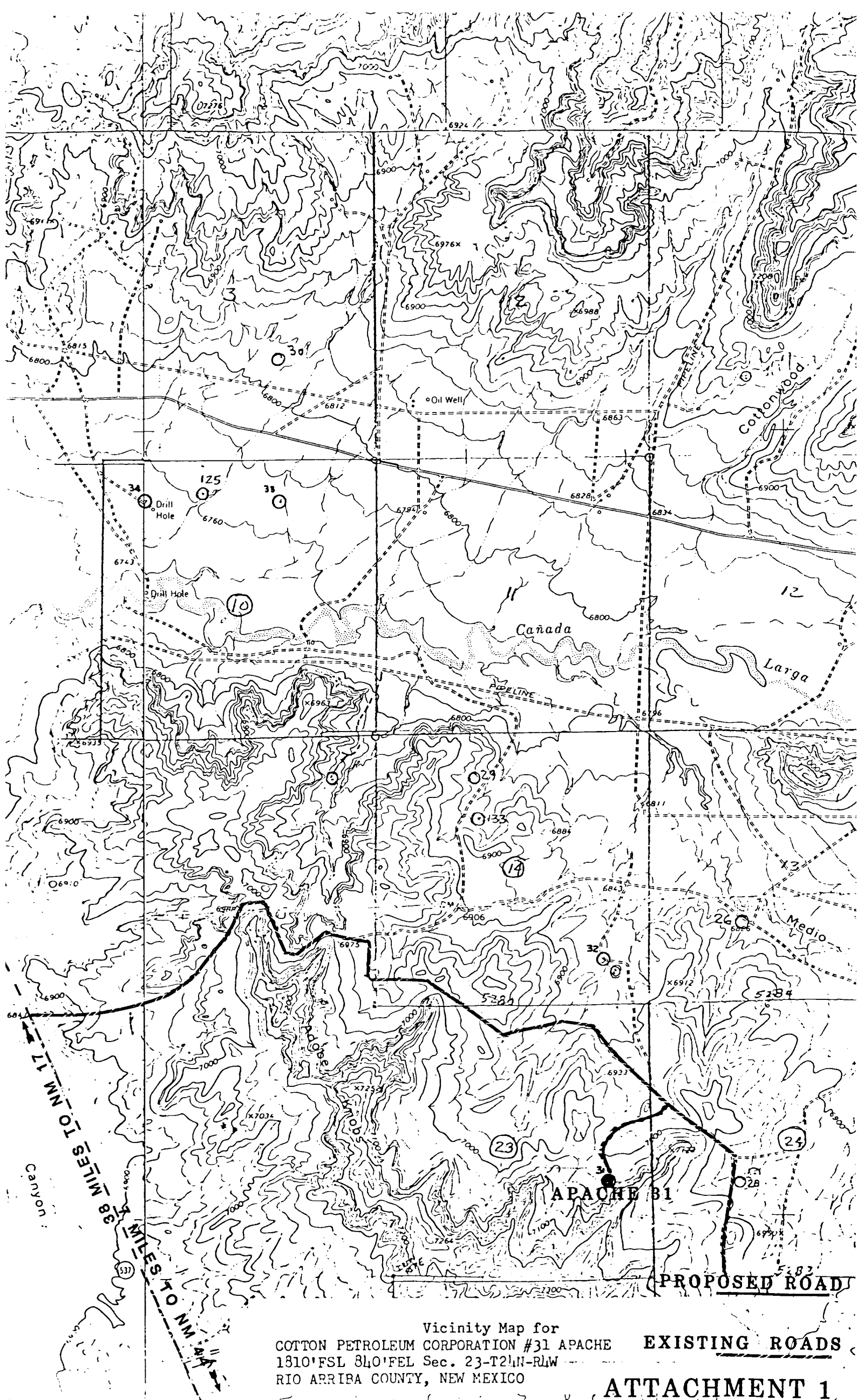
CERTIFICATION

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

Name  
**D.E. Wood**  
Position  
**Division Production Manager**  
Company  
**Cotton Petroleum Corporation**  
Date  
**May 24, 1982**

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  
**May 4, 1982**  
Registered Professional Engineer and/or Land Surveyor  
**Fred B. Kerr Jr.**  
Certificate No.  
**3950**



Vicinity Map for  
COTTON PETROLEUM CORPORATION #31 APACHE  
1310' FSL 840' FEL Sec. 23-T21N-R4W  
RIO ARriba COUNTY, NEW MEXICO

EXISTING ROADS

ATTACHMENT 1