

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-22810

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER   
 SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Cotton Petroleum Corporation

3. ADDRESS OF OPERATOR  
 2200 Energy Center One, 717-17th Street, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface: 1980' FNL, 1980' FE1  
 At proposed prod. zone

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)

16. NO. OF ACRES IN LEASE  
 2665?

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 160 joint - 1 #117

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

19. PROPOSED DEPTH  
 7490'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6850' GR

22. APPROX. DATE WORK WILL START\*  
 09/07/81

5. LEASE DESIGNATION AND SERIAL NO.  
 Contract No. 729-126

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Apache

9. WELL NO.  
 138

10. FIELD AND POOL, OR WILDCAT  
 Lindrith Gallup-Dakota W.

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 N.M.P.M.  
 Sec. 12-T24N-R4W

12. COUNTY OR PARISH  
 Rio Arriba

13. STATE  
 New Mexico

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 U. S. GEOLOGICAL SURVEY  
 FARMINGTON, N. M.

23. PROPOSED CASING AND CEMENTING PROGRAM  
 This action is subject to administrative appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	300'	300 sacks
7-7/8"	4-1/2"	10.5#	7200'	To be determined

It is proposed to drill this well with rotary tools, and drilling mud as a circulation medium, through the Dakota Formation. Possible production zones in the Gallup and Dakota Formation will be completed and downhole co-mingled. Production casing will be cemented in such a manner as to protect the Picture Cliffs Formation. Fence reserve pit on 3 sides before spudding. Fence 4th side when MORT.

Estimated Formations:

Picture Cliffs	3020'	Greenhorn	7145'
Cliff House	4657'	Dakota	7219'
Gallup	6292'		

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 OIL GAS COM.  
 DIST. 3

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 7/09/81

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
 AS AMENDED  
 DATE AUG 2 1981  
 JAMES F. SIMS  
 DISTRICT ENGINEER

NMOCC

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**RECEIVED**  
 JUL - 1 1981  
 COTTON PETROLEUM CORP.  
 DENVER

Operator: <b>COTTON PETROLEUM CORPORATION</b>			Lease: <b>APACHE</b>		Well No.: <b>138</b>
Tract Letter: <b>G</b>	Section: <b>12</b>	Township: <b>24N</b>	Range: <b>4W</b>	County: <b>Rio Arriba</b>	
Vertical Footage Location of Well: <b>1980</b> feet from the <b>North</b> line and <b>1980</b> feet from the <b>East</b> line Ground Level Elev.: <b>6850</b> Producing Formation: <b>Gallup-Dakota</b> Pool: <b>Lindrieth Gallup-Dakota W.</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.

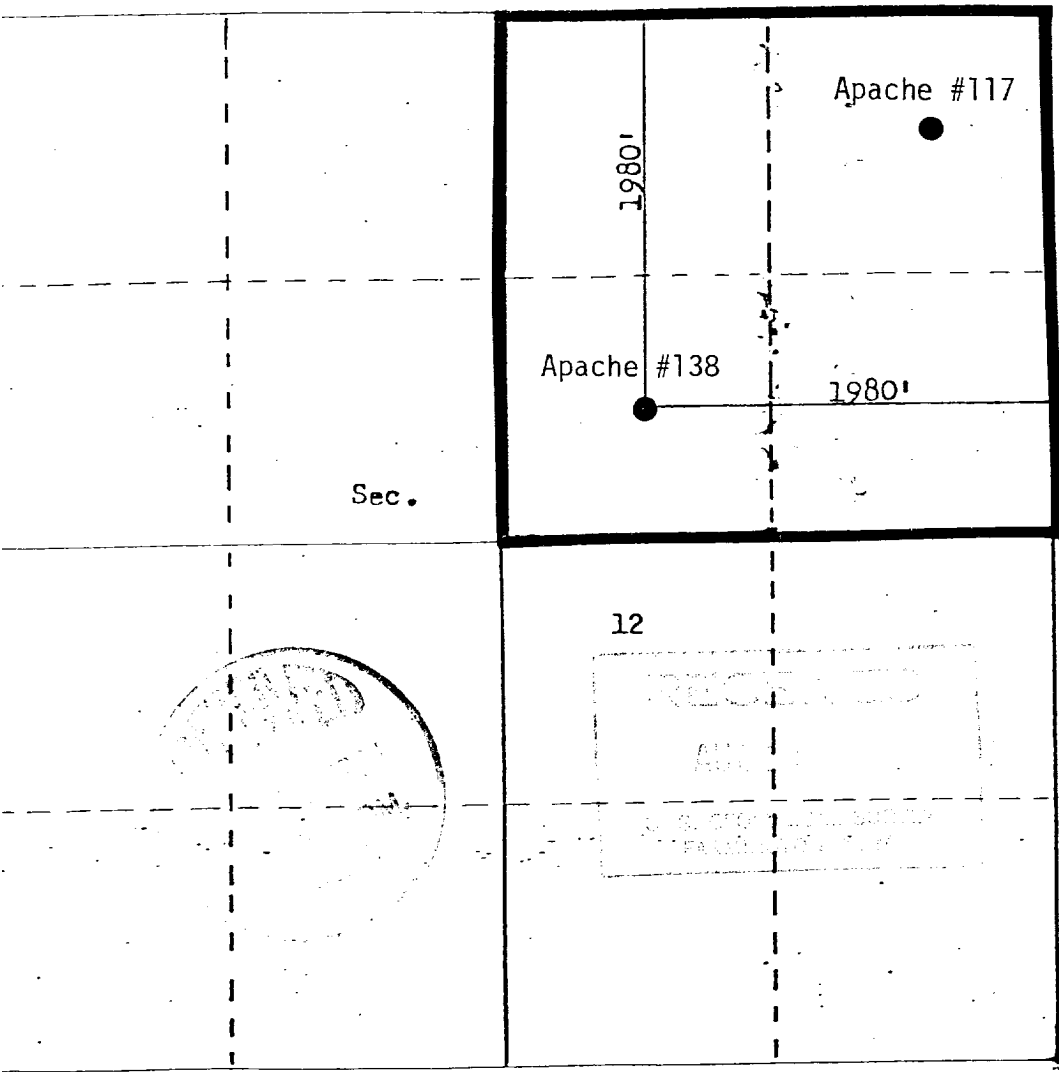
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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**

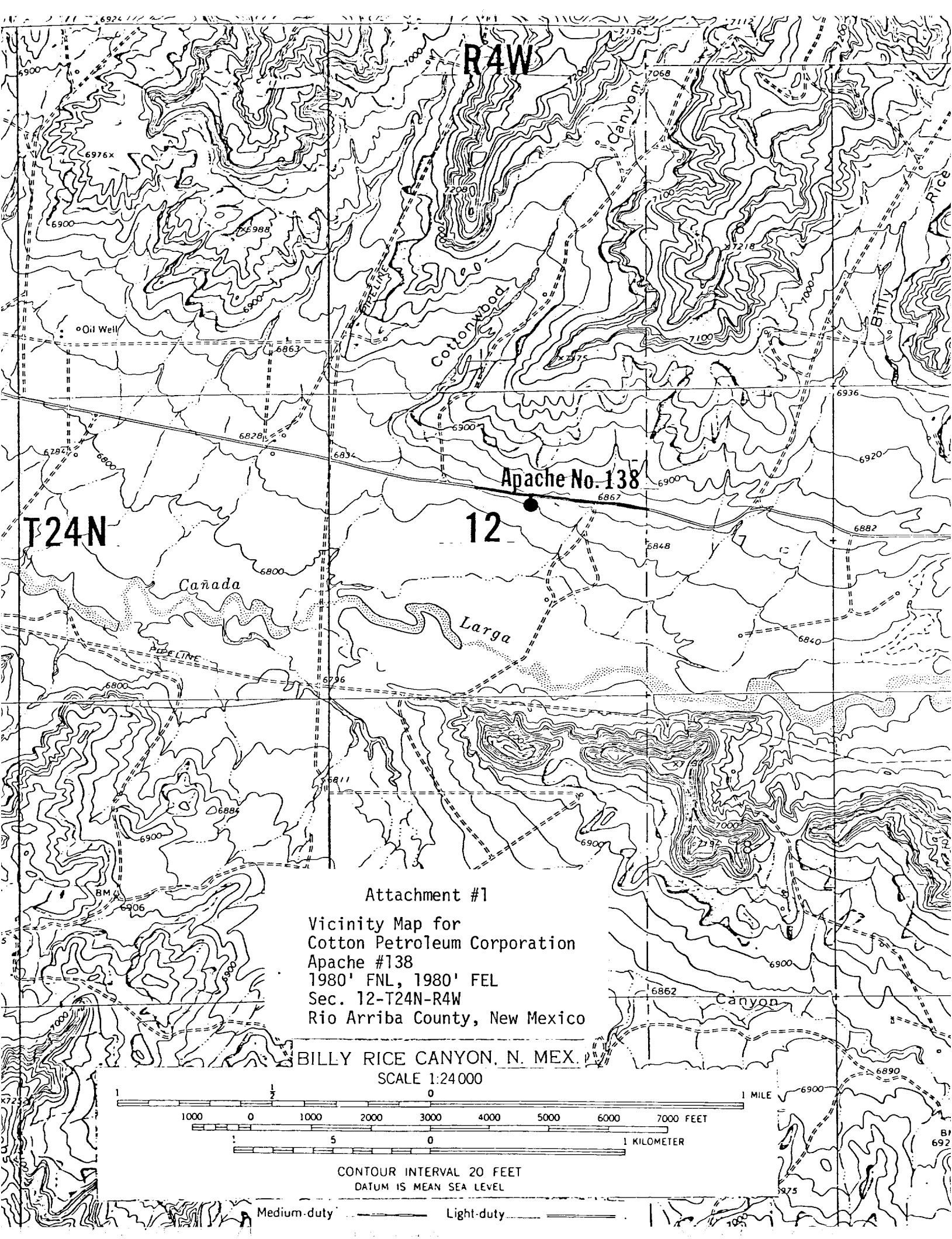
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

**D.E. Wood** *D.E. Wood*  
 Name  
 Division Production Mgr.  
 Position  
 Cotton Petroleum Corp.  
 Company  
 7/10/81  
 Date

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  
**June 28 1981**  
 Registered Professional Engineer  
 and Land Surveyor  
*Fred Key*  
**Fred Key**  
 Certificate No. **3950**

Scale: 1"=1000'



R4W

T24N

12

Apache No. 138

Cañada

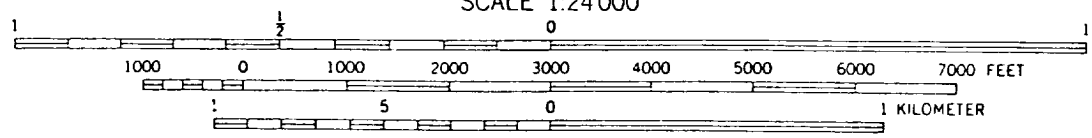
Larga

Attachment #1

Vicinity Map for  
Cotton Petroleum Corporation  
Apache #138  
1980' FNL, 1980' FEL  
Sec. 12-T24N-R4W  
Rio Arriba County, New Mexico

BILLY RICE CANYON, N. MEX.

SCALE 1:24000



CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

Medium-duty

Light-duty