

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. 127
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache
2. NAME OF OPERATOR COTTON PETROLEUM CORPORATION		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 1285 1st of Denver Plaza, 633 17th Street, 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 1075'FNL, 1450'FEL At proposed prod. zone Same		9. WELL NO. 20
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT So. Blanco P. C. ✓
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 --	17. NO. OF ACRES ASSIGNED TO THIS WELL 225.54
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 3090	20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6919'GR, 6929'DF, 6930'KB		22. APPROX. DATE WORK WILL START* July 4, 1977

## 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"	24.0	100'	150 sxs
7-7/8	4-1/2"	10.50	3090	To be determined

It is proposed to drill this well with rotary tools using drilling mud for circulation through the Pictured Cliffs formation. All possible production intervals in the Pictured Cliffs will be completed. Estimated Formation Tops:

Ojo Alamo	- 2440'	Fruitland	- 2860'
Kirtland	- 2640'	Pictured Cliffs	- 2980'

The NE/4 of Section 4 is dedicated to this well. The gas produced from this well will be sold to Northwest Pipeline Co.

JUN 23 1977

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. For: Cotton Petroleum Corporation President, Walsh Engineering  
SIGNED: Frederic N. Walsh, P. E. TITLE & Production Corp. DATE June 17, 1977  
(This space for Federal or State office use)

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

\*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

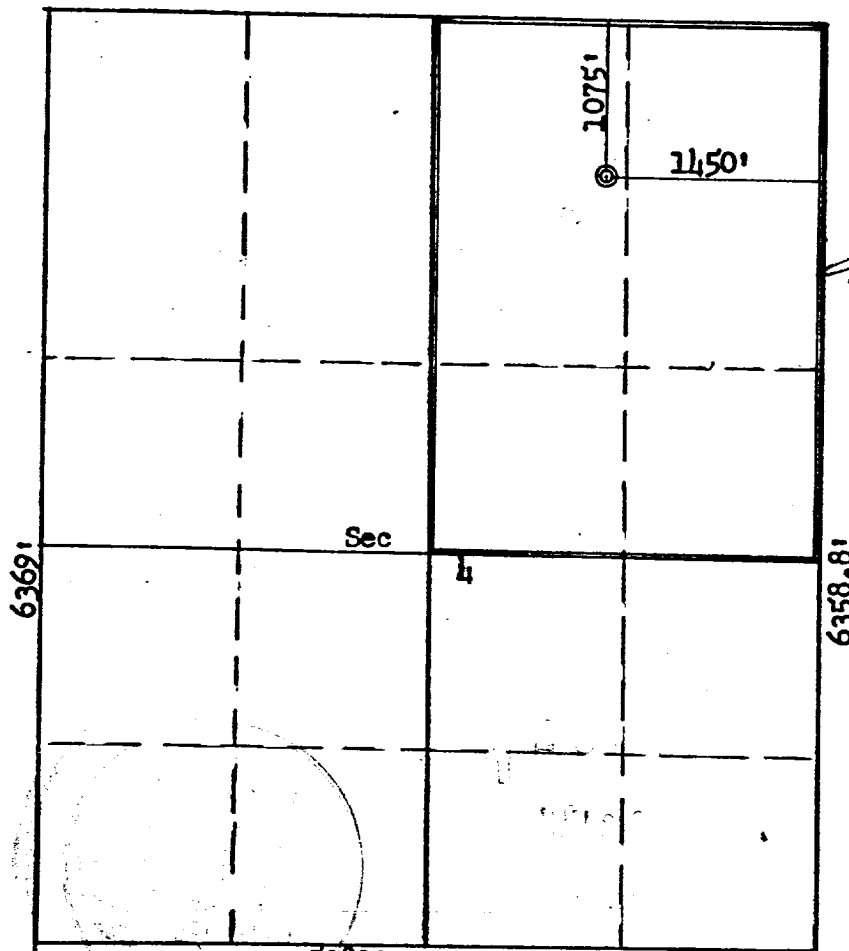
Operator <b>Cotton Petroleum Corporation</b>			Lease <b>Apache</b>		Well No. <b>20</b>
Unit Letter <b>B</b>	Section <b>4</b>	Township <b>24N</b>	Range <b>4W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1075'</b> feet from the <b>North</b> line and <b>1450'</b> feet from the <b>East</b> line					
Ground Level Elev: <b>6919</b>	Producing Formation <b>Pictured Cliffs</b>		Pool <b>South Blanco-Pictured Cliffs</b>		Dedicated Acreage: <b>225.54</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.



SCALE: 4 inches = 1 mile

**CERTIFICATION**

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

For: Cotton Petr. Corp.

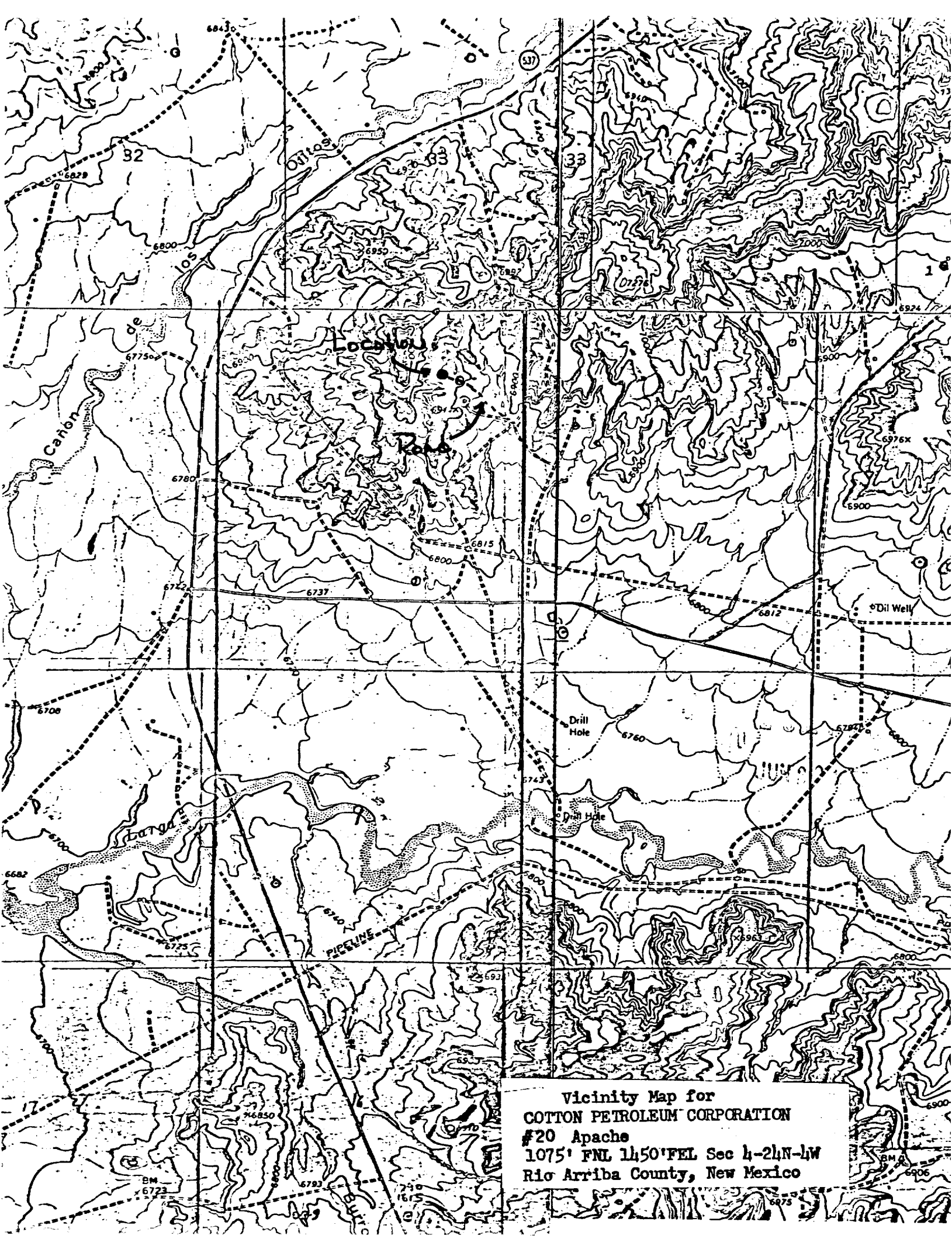
Name: Ewell N. Walsh  
 Position: **Ewell N. Walsh, P.E.  
 President**

Company: **Walsh Engineering  
 & Production Corporation**

Date: **June 17, 1977**

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 13, 1977**  
 Registered Professional Engineer and Land Surveyor: **Fred B. Kerr**  
 Certificate No.: **3950**



Vicinity Map for  
COTTON PETROLEUM CORPORATION  
#20 Apache  
1075' FNL 1h50' FEL Sec 4-24N-4W  
Rio Arriba County, New Mexico