4-1/2"

12-1/4"

<u>7-7/8"</u>

24.

Form 9-331 C (May 1963)	DEPARTMENT	ED STATES OF THE INTER	(Oth	T IN TRIPLICATE er instructions on reverse side)	Form approvement of Budget Burer St. LEASE DESIGNATION CONTRACT N	No. 42-R14252/89/ NAME AND SERIAL NO.
APPLICATIO	N FOR PERMIT 1	O DRILL, DEEP	EN, OR PL	UG BACK	6. IF INDIAN, ALLOTTI	
	RILL 🛛	DEEPEN [	PLU	G BACK [	7. UNIT AGREEMENT	
WELL A	GAS OTHER	Z	INGLE DONE	MULTIPLE ZONE	8. FARM OR LEASE NA Apache 9. WELL NO.	. WE
Cotton Petros. 3. Address of Operator 2502 Lincol	117 10. Findrith G	Qh WILDCAT				
4. LOCATION OF WELL (	Report location clearly and FNL, 610' FEL	in accordance with any i	State requiremen	ts.*)	Dakota Wes 11. sec., T., R., M., OR AND SURVEY OR A Sec. 12-T2	t OKT
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	REST TOWN OR POST OFFIC	E*		Rio Arriba	New Mexic
15. DISTANCE FROM PRO LOCATION TO NEARE PROPERTY OR LEASE (Also to pearest di	A.	10'	O. OF ACRES IN	TO T		160 acres-
18. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			7700 T	i _	20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show w	rhether DF, RT, GR, etc.)				22. APPROX. DATE W	
23.	F	PROPOSED CASING AND	D CEMENTING	PROGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DI		QUANTITY OF CEMENT	
30 3 (41)	0. [ (0)]	24.0	300	' 1300 (	sacks	

7700

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 commingled. Production casing will be cemented in such a manner as to protect the Pictured Cliffs Formation. Fence reserve pit on 3 sides before spudding. Fence 4th side when MORT.

Estimated Formation Tops Pictured Cliffs Cliff House Gallup	2850'	Greenhorn	7000'
	4490'	Graneros	7055'
	6160'	Dakota	7075'

10.50 & 11.60

The natural ga🗞 The NE/4 of Section 12 is dedicated to this well. 160 acres. produced from this well is committed.

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.

BIGNED D. E. WOOD ON TITLE	Division Production Manager 9-5-78
(This space for Federal or State office use)	
PERMIT NO.	APPROVAL DATE
APPROVED BY TITLE	DATE

of 3rah

To be determined

## 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 Querator Well Ho. COTTON PETROLEUM CORPORATION APACHE 117 Unit Letter Section Range County **2**ЫN ШI Rio Arriba Actual Footage Location of Well: 660 610 North East feet from the line and feet from the Ground Level Elev. Producing Formation Pool Dedicated Acreage Lindrith Gallup-Dakota Westex7 6915 Dakota 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? 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 con-610 tained herein is true and complete to the best of my knowledge and belief Nam D. E. Wood Position Division Production Manager Cotton Petroleum Corporation September 5, 1978 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.

2000

1 500

1000

500

### COTTON PETROLEUM CORPORATION APACHE NO. 117

### Multi-Point Surface Use Plan

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Attachment No. 2.
- 4. Location of Tank Batteries Production facilities will be installed on location.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located at Largo Wash, SW/4, Sec. 9, T24N, R4W.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on Attachment No. 3. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3). If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located

on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to Attachment No. 3.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be left in such a condition that will enable reseeding operation to be carried out. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted.
- 11. Other Information The terrain is high sandstone ledges and sagebrush flats with pinon and cedar growing. Cattle graze the proposed project site.
- 12. Operator's Representatives Howard Davis

Farmington, New Mexico

Phone: (505) 325-2409 (Office)

(505) 327-6443 (Home)

Steve Zamets

Denver, Colorado

Phone: (303) 861-9202 (Office)

(303) 451-7115 (Home)

D. E. Wood

Denver, Colorado

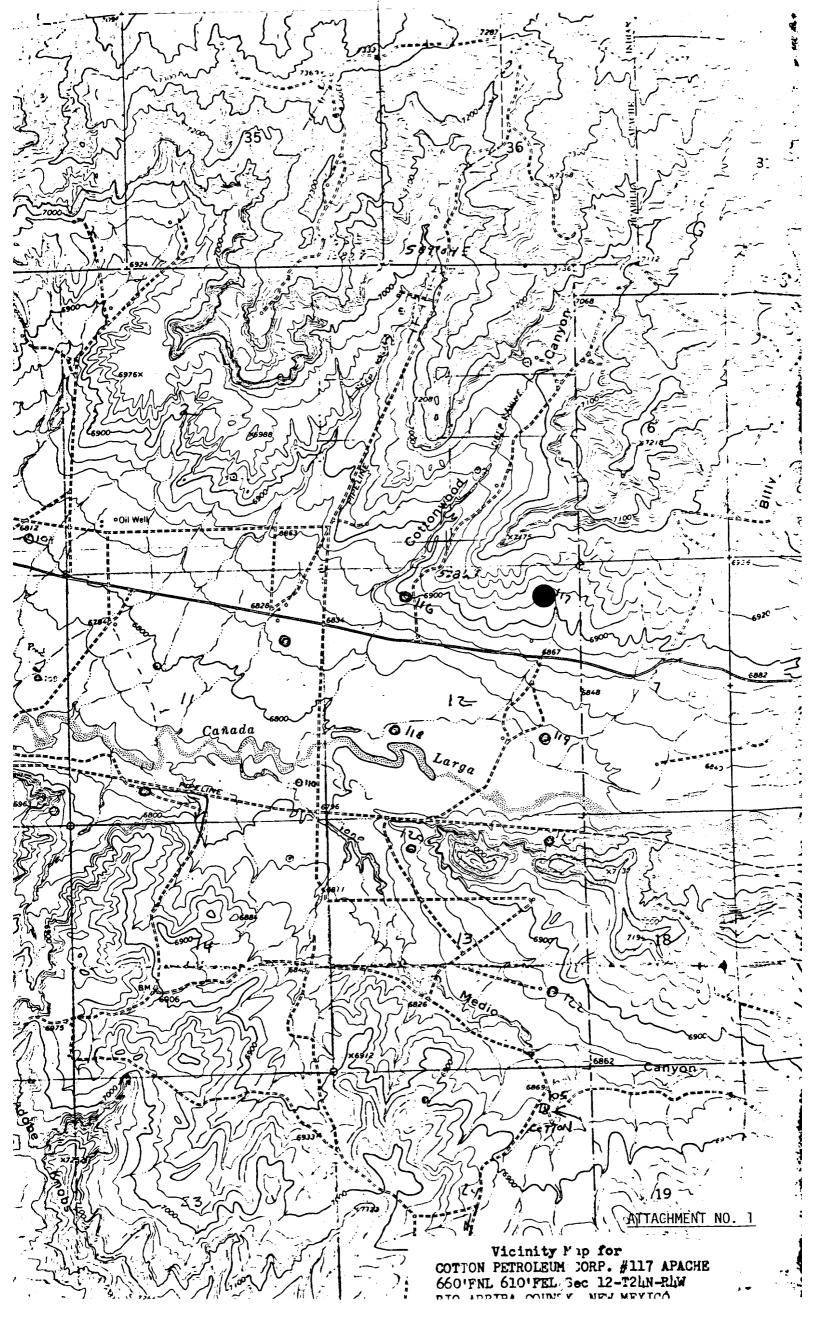
Phone: (303) 861-9202 (Office)

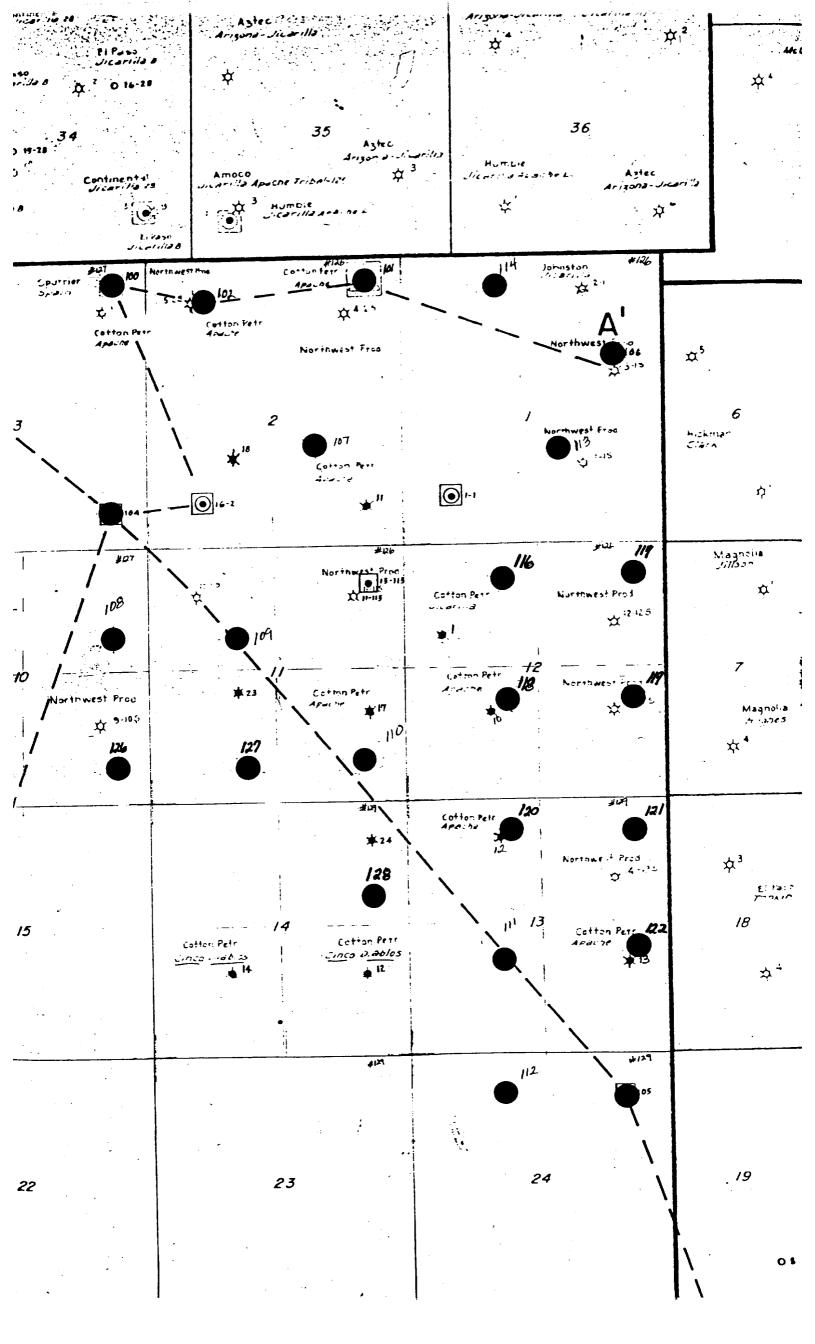
(303) 770-2177 (Home)

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Cotton Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

D. E. Wood, Division Production Manager





# COLEMAN DRILLING CO. P. O. BOX 1915 FARMINGTON, N. M. 87401

PHONE BOS / 325-6892

### DRILLING RIG INVENTORY

RIG # 2

RATED DEPTH CAPACITY 8,000 FEET WITH 4 1/2" DRILL PIPE

DERRICK: 127' LEE C. MOORE W/440,000 HOOK LOAD CAPACITY

SUBSTRUCTURE: LEE C. MOORE - 13' K.B.

DRAWWORKS: H-40 D IDECO

ENGINES: 2 EACH V-8 DETROIT DIESEL

MUD PUMPS: IDECO MM600 W/CATERPILLER D-379TA

555 MAX. HP AT 1100 RPM

500 INT. HP AT 1100 RPM

420 CONT. HP AT 1100 RPM

AUXILIARY MUD PUMP GARDNER-DENVER F X Z W/343TAC CATERPILLER

DESILTER: PIONEER 8 CONE CAPACITY 400 GPM

MUD TANK: 1 EACH 500 BBL. (42 GAL PER BBL.) WORKING CAPACITY

WATER STORAGE: 1 EACH 480 BBL. (42 GAL PER BBL.)

GENERATORS: 1 EACH 90 KW AC AND 1 EACH 30 KW AC

ROTARY TABLE: 23" IDECO

TRAVELING BLOCK: NATIONAL 430 - 150 TONS W/COMB. HOOK

SWIVEL: OILWELL PC 225

BLOW OUT PREVENTER: 10" SHAFFER LWS 3000 WP HYDRAULIC

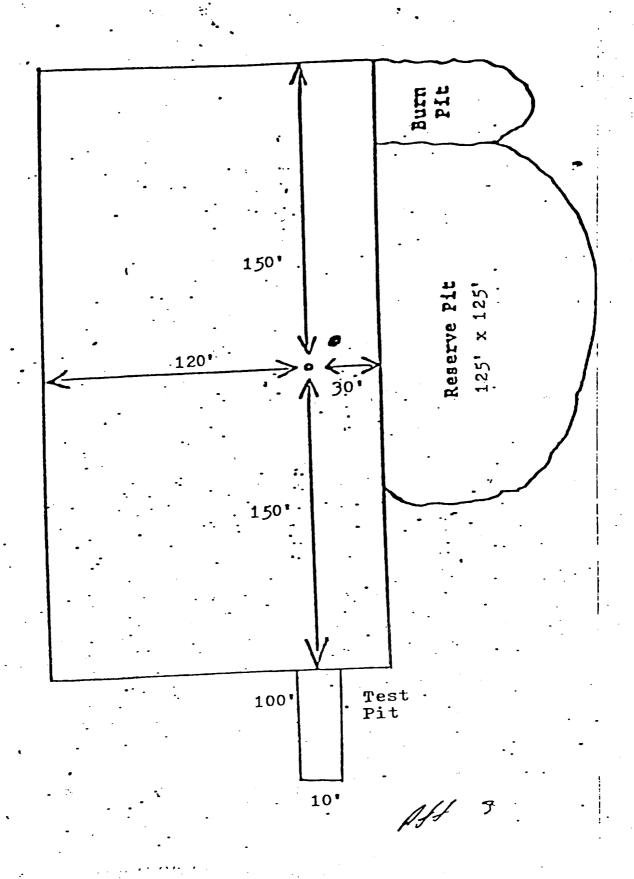
SPECIAL: CROWN-O-MATIC

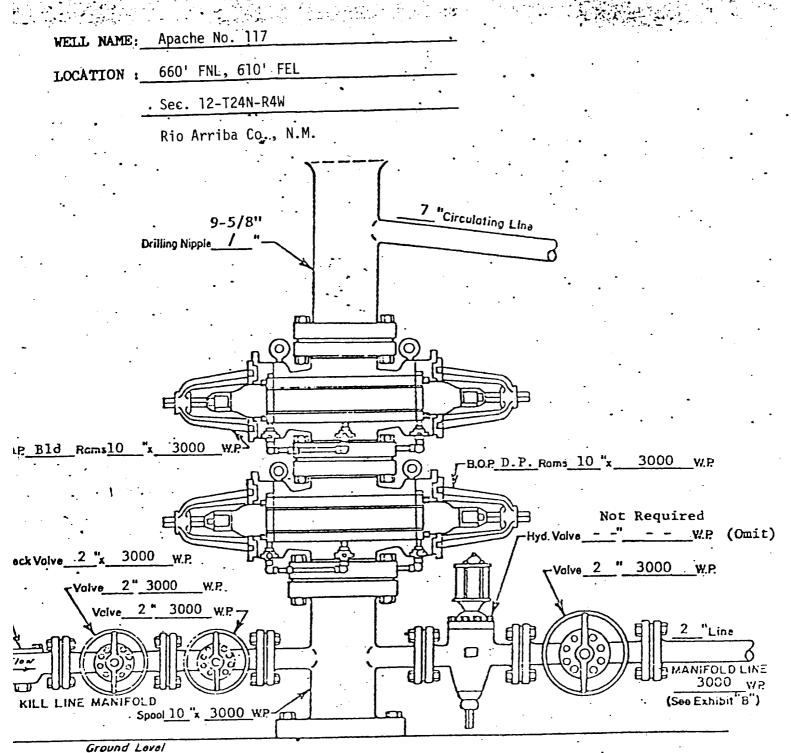
SATELITE AUTOMATIC DRILLER .

TONG TORQUE GAUGE

RATE OF PENETRATION RECORDER

SHALE SHAKER TRAILER HOUSE TWO-WAY RADIO





WELL HEAD B.O.P.

3000 **₩**P.

# OTTON PETROLEUM CORPORATIO APACHE NO. 117 660' FNL, 610' FEL Sec. 12-T24N-R4W Rio Arriba Co., N.M.

### Seven Point Well Control Program

- 1. Surface Casing.
  See Application for Permit to Drill.
- 2. Spools and Flanges.
  - A. Surface Casing 10", Series 900, 3000 psi W.P.
  - B. Production, 10", Series 900, 3000 psi W.P.
  - C. Tubing Head Series 900, 3000 psi. W.P.
- Intermediate Casing.None
- Blowout Preventers
   Production Hole 10", 3000 psi
   Fill, kill and choke manifold 5000 psi. W.P.
- 5. Additional Equipment (If necessary)
  - A. Kelly Cock

D. Pit Level Indicator

B. Bit Float

E. Sub with Valve for

C. Degasser

- drill pipe.
- 6. Anticipated Bottom Hole Pressure.
  3100 psi. Current mud program is for 9.2 lb./gal mud with hydrostatic head of 3600 psi at 7390 feet. Mud weight will be increased if necessary for higher pressures.
- 7. Drilling Fluid. Oil Base Mud.