SUBMIT IN TRIPLICATE*

UNITED STATES DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

Form	approved		
Budget	Bureau	No.	42-R142

APPLICATIO		GEOLOGICAL SURVEY			
	N FOR PERMIT	TO DRILL, DI	EEPEN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NA
1a. TYPE OF WORK					Jicarilla Apache
b. Type of well	RILL 🔀	DEEPEN [PLUG BA	VCK □	7. UNIT AGREEMENT NAME
WELL X	GAS OTHER		SINGLE MULT	IPLE [0
2. NAME OF OPERATOR	LEUM CORPORATION	ON	ZONE ZONE		8. FARM OR LEASE NAME Apache
3. ADDRESS OF OPERATOR					9. WELL NO.
2502 Lincoln	Center Bldg.,	1660 Lincoln,	Denver, Colo. 8	0264	10-WELD AND DOOR
4. LOCATION OF WELL (Report location clearly a	nd in accordance with	any State requirements.*)		10. Lind Althogarlup CAT
2165	'FSL, 1920'FWL		,		Dakota West
At proposed prod. zo	ne				11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA SEC. 13-T24N-R4W
14. DISTANCE IN MILES	AND DIRECTION FROM NI		· · · · · · · · · · · · · · · · · · ·		N.M.P.M.
	AND DIRECTION PROM NI	AREST TOWN OR POST O	FFICE*		12. COUNTY OR PARISH 13. STATE
15 Digma Non many		<u> </u>			Rio Arriba New Mex
 DISTANCE FROM PROF LOCATION TO NEARES 	T	1920 1	6. NO. OF ACRES IN LEASE	17. No. o	F ACRES ASSIGNED
PROPERTY OR LEASE (Also to nearest dr)	LINE, FT. g. unit line, if anvi		-	TO TH	160 acres
8. DISTANCE FROM PRO	POSED LOCATION*		9. PROPOSED DEPTH	90 505	
TO NEAREST WELL, I OR APPLIED FOR, ON TE	ORILLING, COMPLETED,	1,	7700 •		Y OR CABLE TOOLS
	ether DF, RT, GR, etc.)			ro	tary
6827 ' GR					22. APPROX. DATE WORK WILL STAR 6-15-78
		PROPOSED CASING	AND CEMENTING PROGR.	AM	1
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	Ī	QUANTITY OF CEMENT
12-1/4"	8-5/8 .	24.0	300 •	· [
7-7/8"	4-1/2	10.50 & 11.0			300 sacks
			7700	10	be determined
	······································	JLA COUMETON.	. Precipia model.		lling mud as a circula ones in the Gallup and
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Dakota Formati cemented in su Estimated Form Pictured Cl	on will be composed a manner as ation Tops 1850	pleted and dow to protect th	mbole comminated	ction z	ones in the Gallup and action casing will be tion.
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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 Well No. COTTON PETROLEUM CORPORATION Apache 111 Unit Letter Section Township Range County K 13 2LN ГM Rio Arriba Actual Footage Location of Well: 2165 feet from the 1920 line and feet from the Ground Level Elev. Producing Formation Pool Lindrith Gallup-Dedicated Acreage: 6827 Dakota Dakota West 160 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? 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 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 APACHE NO. 111 Cotton Petroleum Corporation May 4, 1978 Sec 13 I hereby certify that the well location 1920' 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 Fre 660 1320 1650 1980 2310

2000

1500

1000

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

PHONE 505 / 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

: - + ODU

ENGINES: 2 EACH V-8 DETROIT DIESEL

MUD PUMPS: IDECO MM600 W/CATERPILLER D-379TA AUXILIARY MUD PUMP 555 MAX. HP AT 1100 RPM 500 INT. HP AT 1100 RPM 420 CONT. HP AT 1100 RPM

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 NAME:	
LOCATION:	
	•
7 %	
9-5/8" Drilling Nipple / "-	rculating Line
End Rid Davido " 3000 "	
BOP_BId_Rcms10 "x 3000 WPS DO O	B.O.P. D. P. Roms 10 "x 3000 W.P
	Not Required
Check Voive 2 "x 3000 W.P.	Hyd. Valve W.P. (Omit)
Valve 2" 3000 W.P.	
Valve 2 " 3000 W.P. 7	
	Line
	MANIFOLD LINE 3000 WR
KILL LINE MANIFOLD Spool 10 "x 3000 WP	(See Exhibit "8")
Ground Level	ш

WELL HEAD B.O.P. 3000 #W.P.

⊠ Hydraulic

COTTON PETROLEUM CORPORATION APACHE NO. 111

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
- 2. Planned Access Roads 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.

project.

- 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 (31). 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: (Cotton Petroleum Corporation)

Walsh Engineering Farmington, New Mexico Phone: (505) 325-8203

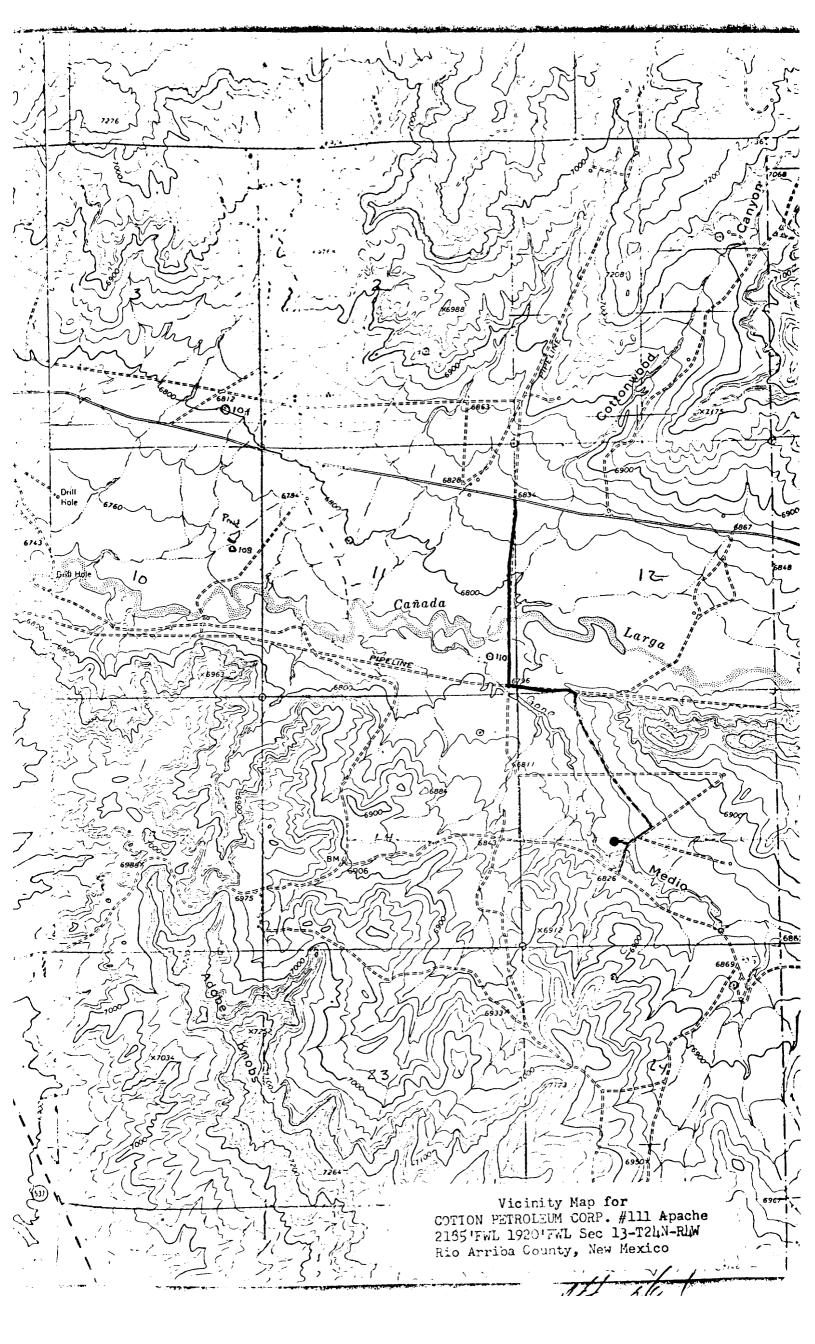
D. E. Wood
Denver, Colorado
Phone: (303) 861-9202 (Office)
(303) 770-2177 (Home)

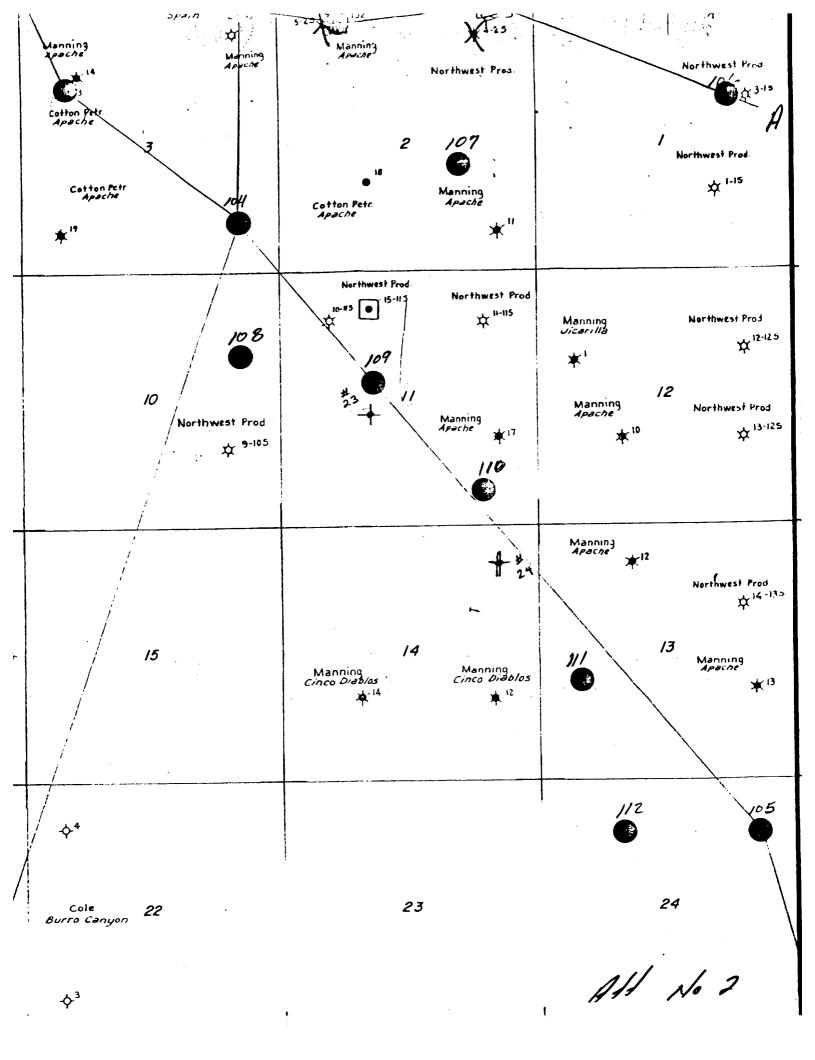
13. Certification -

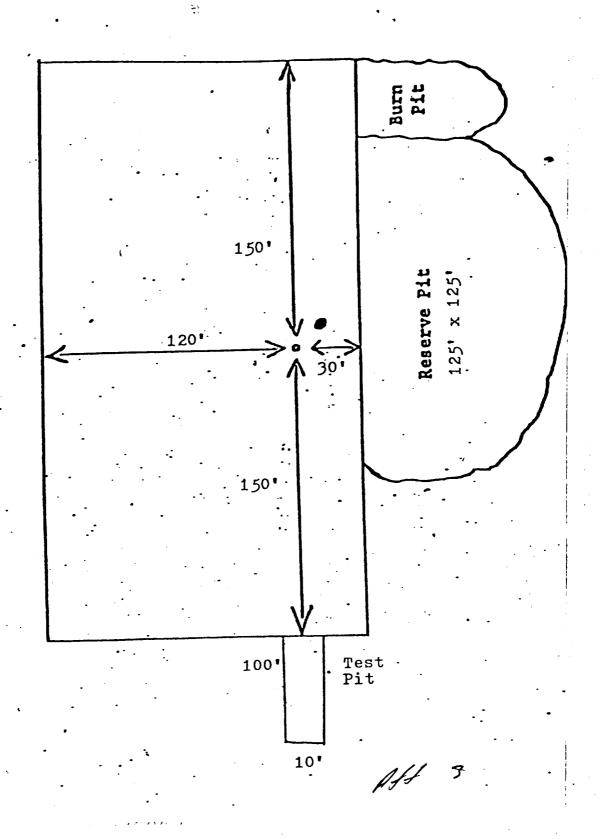
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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.

May 4, 1978

D. E. Wood, Division Production Manager







COTTON PETROLEUM CORPORATION APACHE NO. 111 2165'FSL, 1920'FWL, Sec. 13-T24N-R4W . Rio Arriba County, New Mexico

Seven Point Well Control Program

- 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.
- 3. Intermediate Casing.
 None
- 4. Blowout Preventers Production Hole - 10", 3000 psi Fill, kill and choke manifold - 5000 psi. W.P.
- Additional Equipment (If necessary)
 - A. Kelly Cock

D. Pit Level Indicator

B. Bit Float

E. Sub with Valve for

the time of the first of the second of the s

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.