Form approved.

Form 9-331 C			(Other instructions on				Budget Bures	u No. 42-R1425.	
(Ma;; 1963)	TED STATES	STATES reverse side)				30-039-21892			
DEPARTMENT OF THE INTERIOR							5. LEASE DESIGNATION AND SERIAL NO.		
GEOLOGICAL SURVEY							Contract No. 126		
							6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							Jicarilla Apache		
DRILL IX DEEPEN DEEPEN PLUG BACK							7. UNIT AGREEMENT	NAME	
	LL X	DEEPEN		PLUC	J DAC	`			
	A.S.		811 20	NGLE -	MULTIPL ZONE	• 🗆	S. FARM OR LEASE NA	ME	
OIL WELL X W	ELL OTHER		20		202		Apache		
Cotton Petroleum Corporation							9. WELL NO.		
A CONTRACTOR ON ORDER ATOR							116		
2502 Lincoln Center Bldg., 1660 Lincoln St., Denver, CO. 80264							10. Lindrithougan Tupcat		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							Dakota West CX + -		
660' FNL, 1980' FWL							11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		
At proposed prod. zone							Sec. 12-T24N-R4W		
								M.P.M.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE®							12. COUNTY OR PARISI	New Mexico	
							Rio Arriba	New Mexico	
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST				16. NO. OF ACRES IN LEASE			F ACRES ASSIGNED		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)						160 acres			
18. DISTANCE FROM PROPOSED LOCATIONS TO NEAREST WELL, DRILLING, COMPLETED,				10. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0.			20. ROTARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH			<u> </u>	7700'		Ro	tary		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					•	22. APPROX. DATE W	ORK WILL START	
6890' GR							1-1-79		
23.		PROPOSED CASI	NG AND	CEMENTING 1	PROGRA	M			
SIZE OF HOLE	LE SIZE OF CASING WEIGHT PER		FOOT SETTING DEPTH			QUANTITY OF CEMENT			
12-1/4"	8-5/8"	24.0		300'		300 sacks			
7-7/8"	4-1/2"	10.50 & 1	1.60	7700'		To be determined			
	<u></u>						-		
			1		ı				
medium, thro Dakota Forma cemented in	ed to drill th ough the Dakota tion will be c such a manner les before spud	Formation. ompleted an as to prote	Pos d dow ct th	sible prod nhole comm e Pictured	duction single d Clif	n zone d. <u>Pr</u> fs For	s in the Gall oduction casi	ng will be	
Estimated Fo	rmation Tops			<u>.</u>			70001		
	Pictured Cliffs 2850'		Greenhorn				7000'		
Cliff Hou	Cliff House 4490'		Graneros				7055'		
Gallup	Gallup 6160'		Dakota				7075' SS		
The NW/4 of produced from the ABOVE SPACE DESCRIBION. If proposal is to preventer program, if an	drill or deepen direction	committed.	nen or 1	lng hack give da	160 ac	esent prod	The natural g	as to be	
24.)							

Division Production Manager 9-5-78 (This space for Federal or State office use) PERMIT NO. APPROVED BY _ CONDITIONS OF APPROVAL, IF ANY:

of Frank

U. S. CEPTATIONL SURVEY LANGUE, TOLL.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Well Ho. Lease Operator 116 COTTON BETROLEUM CORPORATION APACHE County Hange Unit Letter 2LIN ЦW Rio Arriba C Actual Footage Location of Well: 1980 West 660 North feet from the feet from the line and Dedicated Acreage: Ground Level Elev. Producing Formation Lindrith Gallup-Dakota West 🦰 160 6890 Dakota 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 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-י1980 tained herein is true and complete to the best of my knowledge and belief D. E. Wood Position Division Production Manager Cotton Petroleum Corporation September 5, 1978 12 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

660

1320 1650

1980

1 800

1000

600

COTTON PETROLEUM CORPORATION APACHE NO. 116

1

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.
- 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.

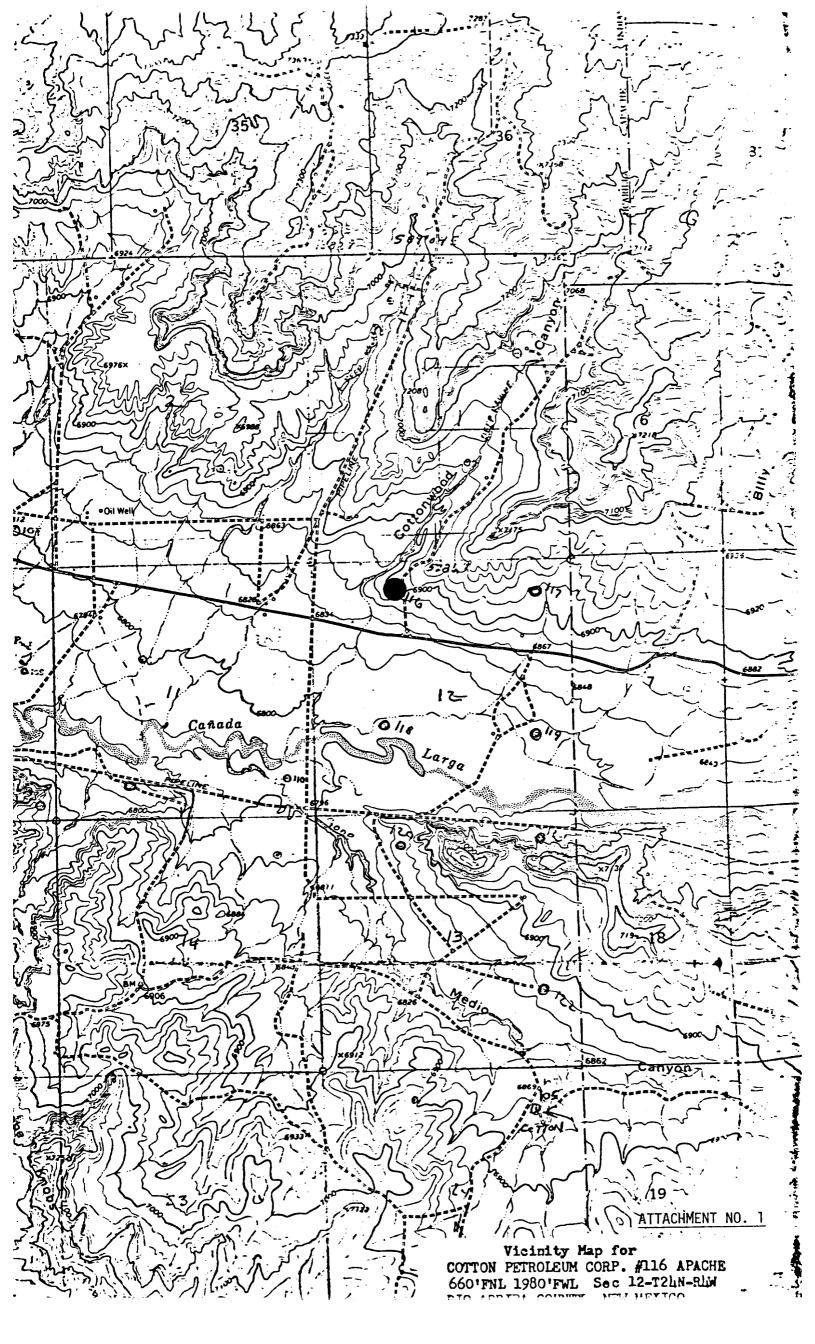
- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to Attachment No. 3.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be left in such a condition that will enable reseeding operation 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

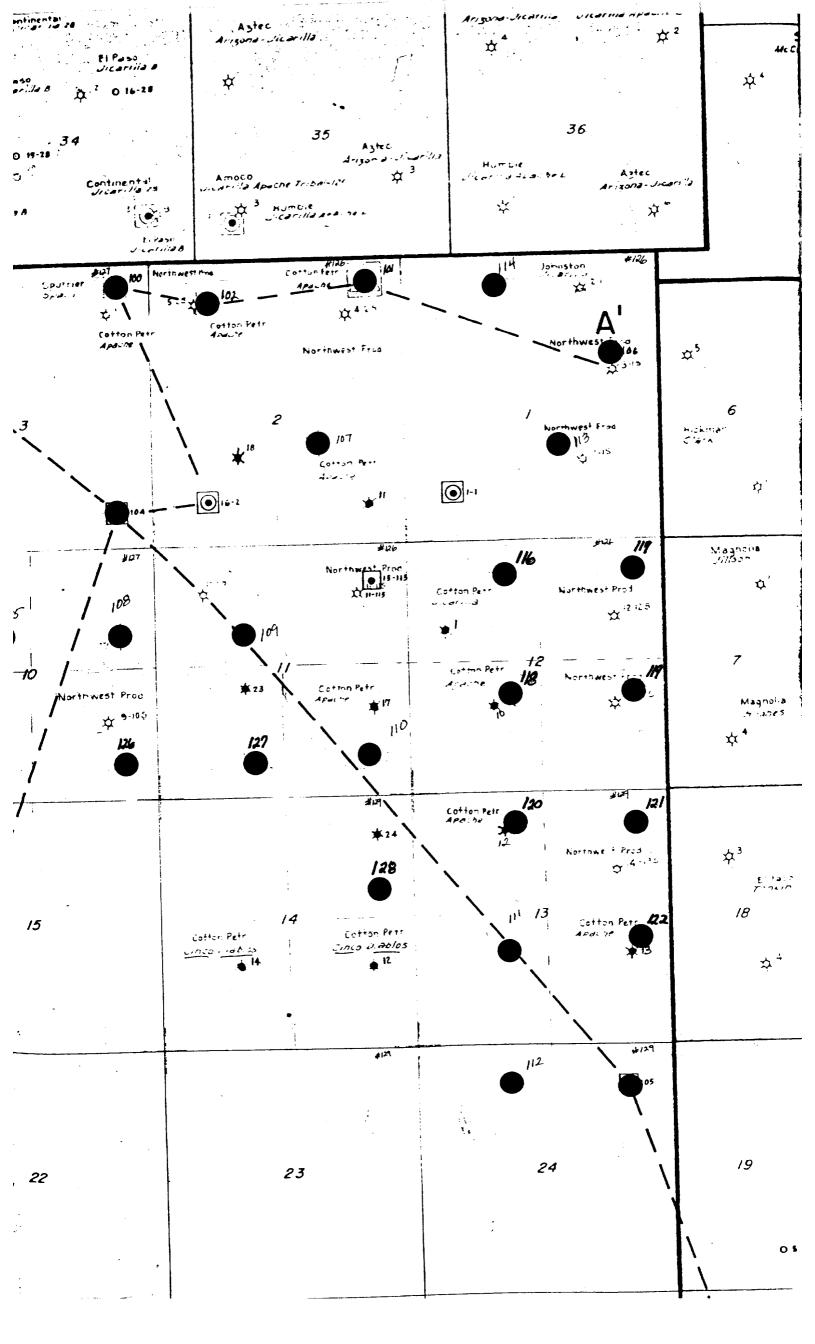
Denver, Colorado Phone: (303) 861-9202 (Office) (303) 451-7115 (Home)

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

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 BOD / 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

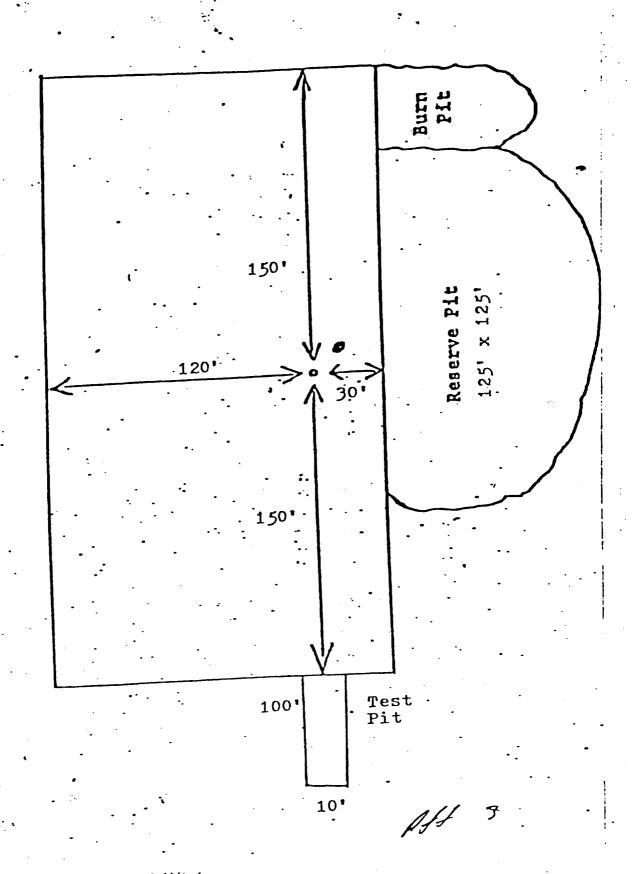
SPECIAL: CROWN-O-MATIC

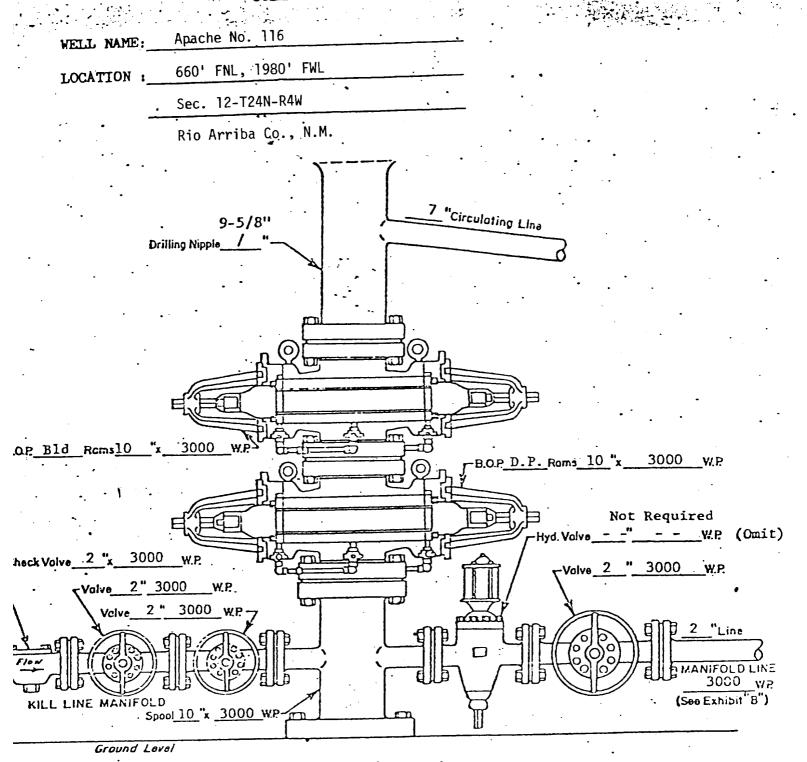
SATELITE AUTOMATIC DRILLER -

TONG TORQUE GAUGE

RATE OF PENETRATION RECORDER

SHALE SHAKER TRAILER HOUSE TWO-WAY RADIO





WELL HEAD B.O.P.

3000_ **₩**P.

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COTTON PETROLEUM CORPORATION APACHE NO. 116 660' FNL, 1980' FWL 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.
- 3. Intermediate Casing.
 None
- 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

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.