#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

30-036-2/16/
5. LEASE DESIGNATION AND SERIAL NO.
Contract No. 126

| DEPARTMENT OF THE INTERIOR  GEOLOGICAL SURVEY   |                                   |                                      |                      |                         |             | 5. LEASE DESIGNATION AND SERIAL NO. Contract No. 126                                    |  |
|---|-----------------------------------|--------------------------------------|----------------------|-------------------------|-------------|---|--|
|   |                                   |                                      |                      | U OD DIVIC D            | A C1/       | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  |  |
| APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK   |                                   |                                      |                      |                         | ACK         | Jicarilla Apache  |  |
| a TYPE OF WORK  |                                   |                                      |                      | PLUG BAC                | I           | 7. UNIT AGREEMENT NAME  |  |
| DRIL  | L 🗓                               | DEEPEN                               |                      | PLUG BAC                |             |   |  |
| b. TYPE OF WELL  OIL GAS SINGLE ZONE ZONE ZONE  |                                   |                                      |                      |                         | LE          | S. FARM OR LEASE NAME   |  |
| WELL OTHER  NAME OF OPERATOR  |                                   |                                      |                      |                         |             | Apache  |  |
| COTTON PETROI   | 9. WELL NO.                       |                                      |                      |                         |             |   |  |
| ADDRESS OF OPERATOR   | 109                               |                                      |                      |                         |             |   |  |
| SECO Timesin  | 10. THYOTH CHOIGHT UPLAT          |                                      |                      |                         |             |   |  |
| 2502 Lincoln Center Bldg., 1660 Lincoln, Denver, Colo. 80264  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) |                                   |                                      |                      |                         |             | Dakota West   |  |
| At surface 1950'FNL, 1820'FWL   |                                   |                                      |                      |                         |             | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  |  |
| ·   |                                   |                                      |                      |                         |             | Sec. 11-T24N-R4W  |  |
| At proposed prod. zone  | e                                 |                                      |                      |                         |             | N.M.P.M.  |  |
| 14. DISTANCE IN MILES A   | ND DIRECTION FROM NEAR            | EST TOWN OR POS                      | T OFFICE             | •                       |             | 12. COUNTY OR PARISH 13. STATE  |  |
|   |                                   |                                      |                      |                         |             | Rio Arriba New Mexico   |  |
| 15. DISTANCE FROM PROPO   | SED*                              |                                      | 16. NO.              | OF ACRES IN LEASE       | 17. No. 0   | OF ACRES ASSIGNED<br>HIS WELL   |  |
| LOCATION TO NEAREST   | INE. FT.                          |                                      | 1                    | •                       |             | 160 acres   |  |
| (Also to nearest drig<br>18. DISTANCE FROM PROP   | , unit line, if any)              |                                      | 19. PROPOSED DEPTH 2 |                         | -           | 20. ROTARY OR CABLE TOOLS   |  |
| TO MEADEST WELL D   | RILLING, COMPLETED,               |                                      | 7700 '               |                         | F           | Rotary  |  |
| OR APPLIED FOR, ON THIS LEASE, FT.  21. ELEVATIONS (Show whether DF, RT, GR, etc.)  |                                   |                                      |                      |                         |             | 22. APPROX. DATE WORK WILL START*   |  |
| 6801 <b>'</b> GR  |                                   |                                      |                      |                         |             |   |  |
| 23.   | F                                 | PROPOSED CASI                        | NG AND               | CEMENTING PROGR         | AM          |   |  |
| SIZE OF HOLE  | SIZE OF CASING                    | WEIGHT PER I                         | TOOT                 | SETTING DEPTH           | _           | QUANTITY OF CEMENT  |  |
| 12-1/4"   | 8-5/8                             | 24.0                                 |                      | 300 '                   | _           | 300 sacks   |  |
| 7-7/8"  | 4-1/2                             | 10.50 & 11                           | .60                  | 7700'                   | Te          | be determined   |  |
| tion medium, t  |                                   | ota Formati<br>oleted and            | .on.<br>downh        | possible productionaled | i. Pro      | illing mud as a circula-<br>zones in the Gallup and<br>duction casing will be<br>ation. |  |
|   |                                   |                                      |                      |                         |             |   |  |
| Estimated Form  | iffs 2850                         | n •                                  |                      | Greenhorn               | <b>7</b> 00 | 0'  |  |
| Cliff House   |                                   |                                      | Graneros             |                         | <b>7</b> 05 |   |  |
| Gallup  | 616                               |                                      | Dakota 7             |                         | <b>7</b> 07 | 5'  |  |
| Garrab  | 020                               |                                      |                      |                         |             |   |  |
| produced from   | ection ll is de<br>this well is c | ommitted.                            |                      |                         | necont nec  | he natural gas to be  |  |
| in above space describe zone. If proposal is to preventer program, if a 24.   | drill or deepen direction         | proposal is to denally, give pertine | epen or<br>nt data   | on subsurface locations | and measur  | ductive pope and proposed new productive<br>ed and true vertical depths. Give blowout   |  |
| SIGNED D. E.  | Wood                              | <u></u>                              | Di                   | vision Product          | ion Mar     | nager May 4, 1978   |  |
|   | deral or State office use)        |                                      |                      |                         |             |   |  |
| PERMIT NO.  |                                   |                                      |                      | APPROVAL DATE           | R           | ECEIVE  |  |
| APPROVED BYCONDITIONS OF APPRO  |                                   |                                      | TITLE                |                         |             |   |  |
| CONDITIONS OF BILL  | OVAL, IF ANY :                    |                                      |                      |                         |             | MAV 0 1070  |  |
| of 3/2  | 1                                 |                                      |                      |                         |             | MAY 8 1978  |  |

\*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY DURANGO, COLO.

## المراجع المراجع

### 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 Well No. Lease Operator 109 COTTON PETROLEUM CORPORATION <u>Apache</u> County Range Unit Letter Rio Arriba 24N 11 F Actual Footage Location of Well: 1820 feet from the West line North line and feet from the Pool Lindrith Gallup-Dedicated Acreage: Producing Formation Ground Level Elev. 160 Dakota West Acres 6801 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 \_ Yes Yes 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 Division Production Manager 18201 Cotton Petroleum Corporation May 4, 1978 Sec  $\overline{11}$ I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or APACHE NO. 109 under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered F

1000

2000

1980 2310 2640

660

330

1500

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

PHONE 805 / 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 NAME:   |                                  |
|--|----------------------------------|
| LOCATION:  |                                  |
|  |                                  |
|  |                                  |
| ¥ \  |                                  |
|  |                                  |
| 9-5/8"  Drilling Nipple / "Circ  | ulating Lina                     |
| Di ming Nippile /  |                                  |
|  |                                  |
|  |                                  |
|  |                                  |
|  |                                  |
|  |                                  |
| BOP Bld Rems 10 "x 3000 WPS The state of the | DOD D. D. D. 10 H. 2000          |
|  | B.O.P. D. P. Roms 10 "x 3000 W.P |
|  | Not Required                     |
| -Check Valve 2 "x 3000 W.P.  | Hyd Valve W.P. (Omit)            |
| Volve 2" 3000 W.P.   | Valve 2 " 3000 W.P.              |
| Valve 2 " 3000 W.P. 7  |                                  |
|  | 2 "Line                          |
|  | E B MANIFOLD LINE                |
| KILL LINE MANIFOLD  Spool 10 "x 3000 WP TT   | (See Exhibit B")                 |

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

Ground Level

☑ Hydraulic

### COTTON PETROLEUM CORPORATION APACHE NO. 109

#### 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.
- 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 (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

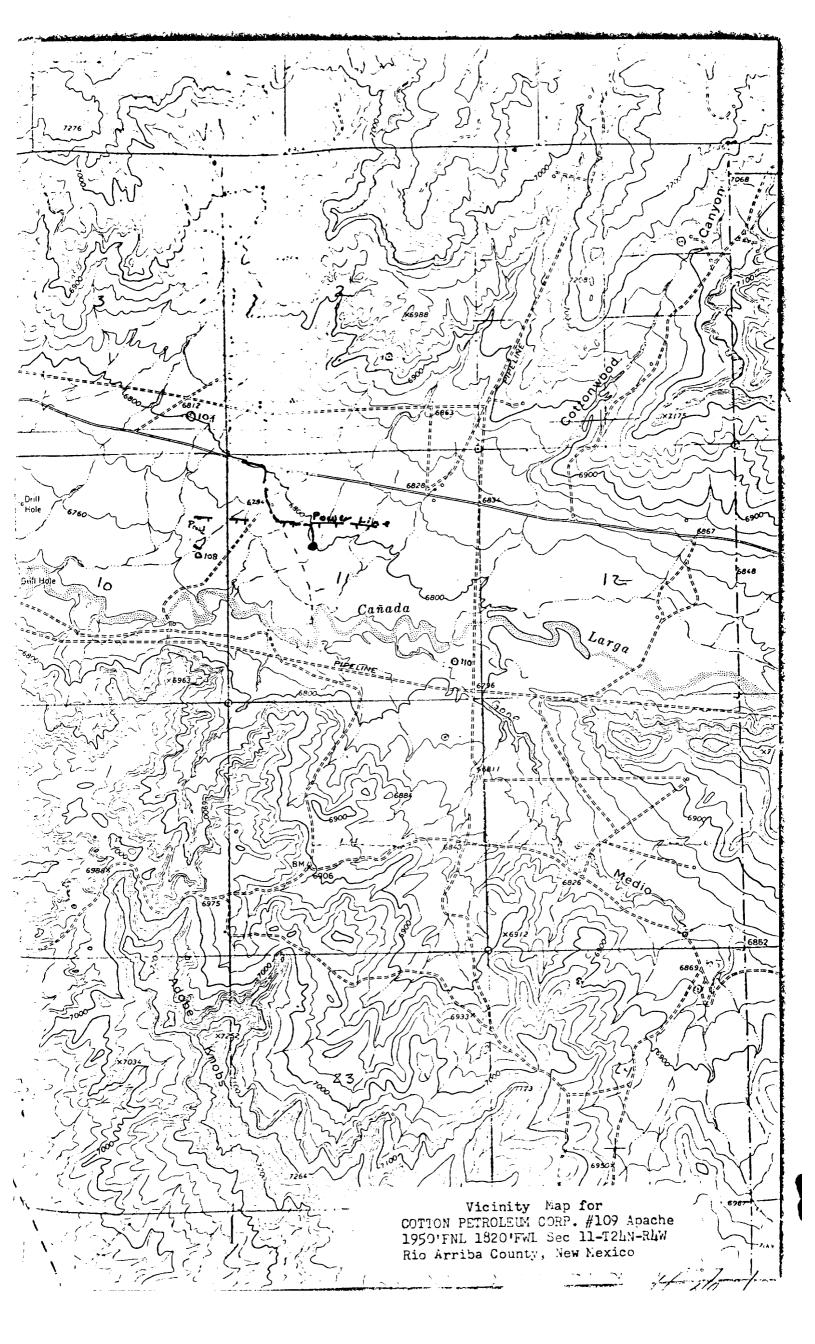
D. E. Wood Denver, Colorado Phone: (303) 861-9202 (Office) (303) 770-2177 (Home)

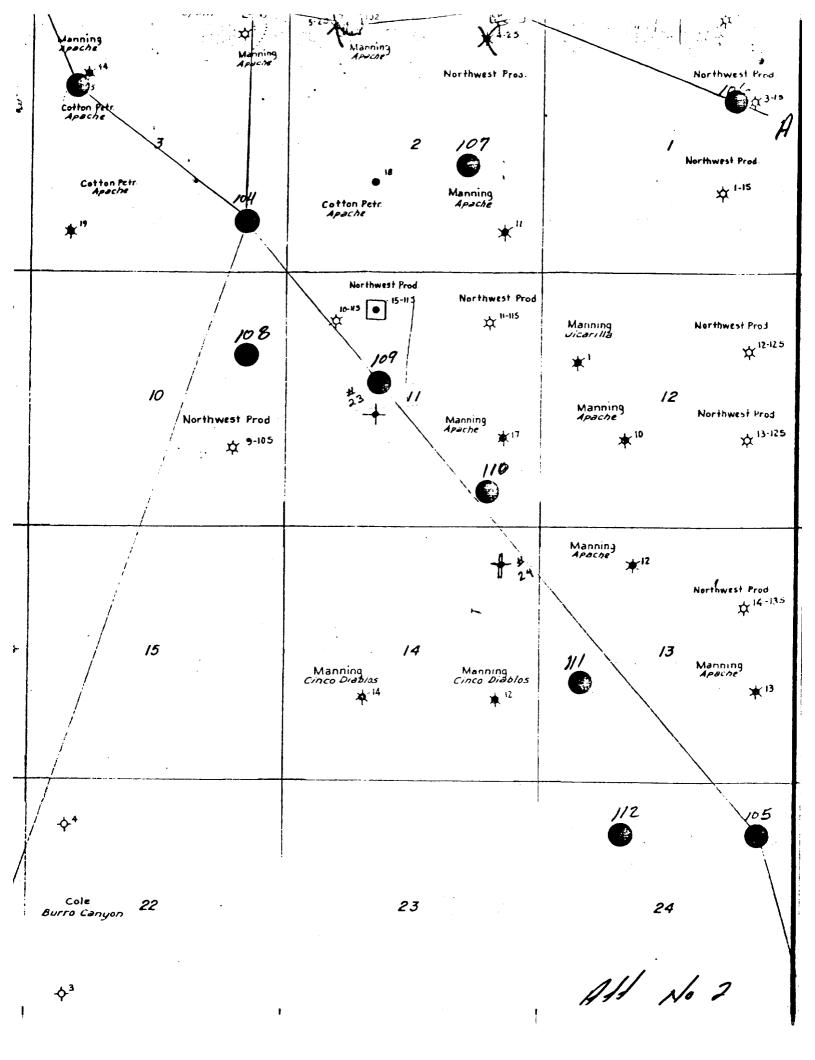
13. Certification -

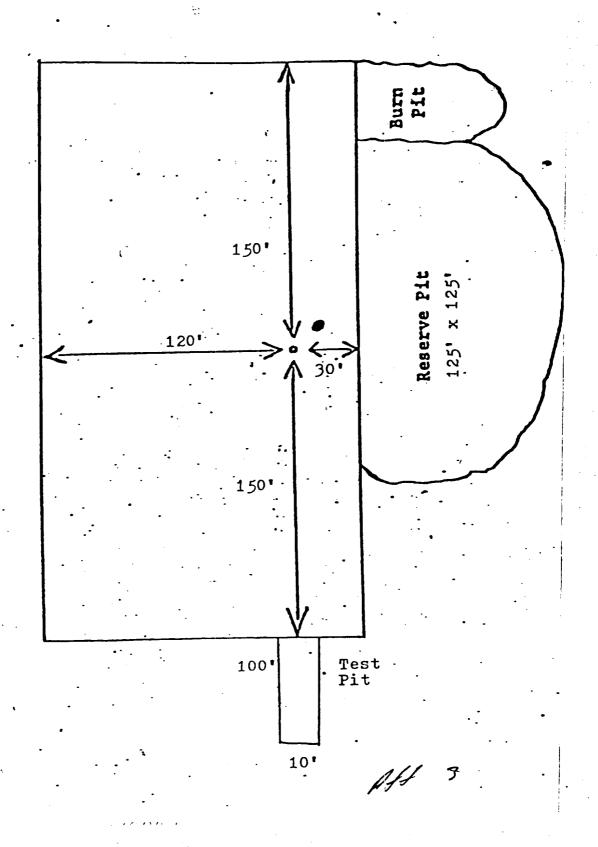
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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. 109 1950'FNL, 1820'FWL, Sec. 11-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

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.

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