1-B Form 9-331C 1-F (May 1963)

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Eurean No. 42-R1425.

# 30 - 039 - 2/739 5. LEASE DESIGNATION AND SERIAL NO.

|  | 5. LEASE DESIGNATION AND SERIAL NO.                            |                                 |                           |   |  |  |
|--|--|---------------------------------|---------------------------|---|--|--|
|  | SF #079161   |                                 |                           |   |  |  |
| APPLICATION  | 6. 15 INDIAN, ALLOTTEE OR TRIBE NAME                           |                                 |                           |   |  |  |
| 1a. TYPE OF WORK  DRII  b. TYPE OF WELL  | LX   | ск 🗌                            | 7. UNIT AGREEMENT NAME    |   |  |  |
| OIL GA WELL. WE  | S. FARM OR LEASE NAME  Candado                                 |                                 |                           |   |  |  |
| Bolin Oil Co   | 9. WELL NO. #22  |                                 |                           |   |  |  |
| 3. ADDRESS OF OPERATOR   | 10. FIELD AND POOL, OR WILDCAY                                 |                                 |                           |   |  |  |
| P. O. Box 40 4. LOCATION OF WELL (Re   | Blanco Mesaverde   |                                 |                           |   |  |  |
| 1810†<br>At preposed prod. zone<br>Mosave  | 11. SEC. T., B., M., OR BLK. AND SURVEY OR AREA  Sec. 4-26N-78 |                                 |                           |   |  |  |
| 14. DISTANCE IN MILES A  |  | AREST TOWN OR POS               | T OFFICE                  |   |  | 12. COUNTY OR PARISH   13. STATE   |
| 25 miles SE/   |  | Rio Arriba New Mexic            |                           |   |  |  |
| 15. DISTANCE FROM PROPO-<br>LOCATION TO NEAREST<br>PROPERTY OR LEASE LI<br>(Also to nearest drig | 1160'  | γ¹                              |                           |   | of acres assigned this well. 320.80      |  |
| 18. DISTANCE FROM PROPE  | SED LOCATION*  |                                 | 1                         | OPOSED DEPTH                              | 27. ROTA                                 | RY OR CABLE TOOLS  |
| TO NEAREST WELL, DR<br>OR APPLIED FOR, GN THE  |  | 837' 5,300'                     |                           | Ro  | Rotary                                   |  |
| 21. ELEVATIONS (Show whe   | ther DF, RT, GR, etc.)   |                                 |                           |   | ·- ' · - · · - · · · · · · · · · · · · · | 22. APPROX. DATE WORK WILL START*  |
| 65731  | GL   |                                 |                           |   |  | As soon as possible  |
| 23.  |  | PROPOSED CASI                   | NG AND                    | CEMENTING PROGR.                          | AM                                       | and the second s |
| SIZE OF HOLE   | SIZE OF CASING   | WEIGHT PER F                    | тоот                      | SETTING DEPTH                             |  | QUANTITY OF CEMENT   |
| 12 1/4"  | 8 5/8"   | 24#                             |                           | 300' To ci                                |  | rculate to surface.  |
| 7 7/8"   | 5 1/2"   | 15.5#                           |                           | 5300!                                     | To ci                                    | rculate to surface.  |
| Proposed dril  | ling program:  |                                 |                           |   |  | 0.0078   |
| Drill 12 1,  | /4" hole to 30   | 0'. Set 8                       | 5/8"                      | csg. & circul                             | ate to                                   | surface. 326 1978  |
| W.O.C. 12  |  |                                 |                           |   |  | surface. 320 com.  |
| Drill 7 7/8  | 3" hole to est   | imated 5300                     | ٠.                        |   |  |  |
| Run necess   | ery logs for a   | dequate eva                     | luati                     | on.                                       |  | The second secon |
| Complete by frac.  | setting 5 1/   | 2" csg. &                       | circ                      | ulate to surfac                           | 0 Pe                                     | rforate & sand   |
| If dry, wil  | ll P & A as pe   | r regulation                    | n.                        | gas is e                                  | Alemente                                 | es <sup>s</sup>  |
| daily dril:  | ling report. PROPOSED PROGRAM: If<br>fell or deepen direction  | (Schematic   proposal is to dee | di <b>agr</b><br>cen er p | am attached.)<br>lug back, give data on p | oresent <b>prod</b>                      | notive zone and proposed new productive d and true vertical depths. Give blowout   |
| SIGNUD FILE  | Pun Ja   | 71                              | DIAS                      | agont                                     |  | DATE 4/24/18   |
| (This space for Feder  |  |                                 |                           |   | *  | REEIVEN  |
| PERMIT NO  |  | 7017                            |                           | AFPROVAU DATE                             |  | ΔRR 2 5 1978   |

**UNITED STATES** 

of Frank

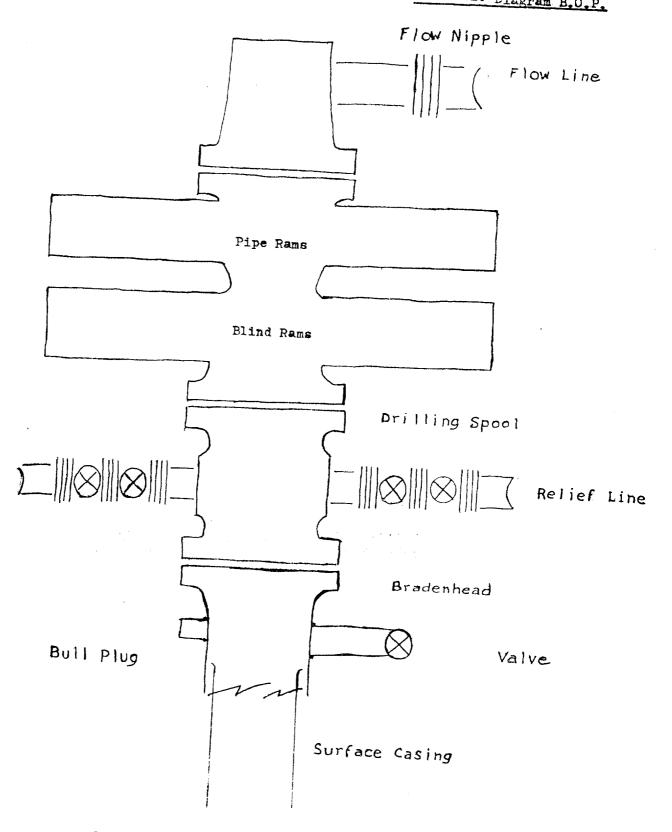
CONDITIONS OF APPROVAL, IF ANY

U. S. GEOLOGICAL SURVEY.
DUISMICO, COLO.

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

|   |  | All distances must be i               | rom the outer boundaries | s of the Section.        |                                   |  |  |  |  |  |  |
|---|--|---------------------------------------|--------------------------|--------------------------|-----------------------------------|--|--|--|--|--|--|
| Operator  |  |                                       | Lease                    |                          | Well No.                          |  |  |  |  |  |  |
| Bolin Oil C   |  | · · · · · · · · · · · · · · · · · · · | Candado                  |                          | 22                                |  |  |  |  |  |  |
| Unit Letter   | Section  | Township                              | Range                    | County                   |                                   |  |  |  |  |  |  |
| <u>L</u>  | <u> </u>   | 26N                                   | 7W                       | Rio Arriba               |                                   |  |  |  |  |  |  |
| Actual Footage Loc  | ation of Well:   |                                       |                          |                          |                                   |  |  |  |  |  |  |
| 1810  | feet from the  | South line and                        | 1160                     | feet from the West       | line                              |  |  |  |  |  |  |
| Ground Level Elev.  | Producing For  | mation                                | Pool                     |                          | Dedicated Acreage:                |  |  |  |  |  |  |
| 6573  | Mesa Ver   | 'de                                   | Blanco                   | MU                       | 320.80)Acres                      |  |  |  |  |  |  |
|   |  |                                       | 11 1 1 1                 | 1 1 1                    |                                   |  |  |  |  |  |  |
| 1. Outline in   | 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 |  |                                       |                          |                          |                                   |  |  |  |  |  |  |
| ınterest ar   | nd royalty).   |                                       |                          | •                        | _                                 |  |  |  |  |  |  |
|   |  |                                       |                          |                          |                                   |  |  |  |  |  |  |
| 3. It more tha  | in one lease of di   | ifferent ownership is                 | dedicated to the we      | ll, have the interests o | of all owners been consoli-       |  |  |  |  |  |  |
| dated by c  | ommunitization, u  | nitization, force-pooli               | ng. etc?                 |                          |                                   |  |  |  |  |  |  |
|   |  |                                       |                          |                          |                                   |  |  |  |  |  |  |
| Yes   | No If an   | nswer is "yes;" type o                | f consolidation          | ·                        |                                   |  |  |  |  |  |  |
|   |  |                                       |                          |                          |                                   |  |  |  |  |  |  |
| If answer   | is "no;" list the  | owners and tract desc                 | riptions which have      | actually been consolid   | lated. (Use reverse side of       |  |  |  |  |  |  |
| this form if  | f necessary.)  |                                       |                          |                          | (COO ICTOIDE SINE OI              |  |  |  |  |  |  |
|   | •  | ed to the well until all              | interests have be-       | n congolidata //         | nmunitization, unitization,       |  |  |  |  |  |  |
| forced-neel   | ing or otherwise.  | or until a non atonder                | micresis nave bee        | n consolidated (by con   | nmunitization, unitization,       |  |  |  |  |  |  |
| sion.   | ung, or otherwise)   | or until a non-standar                | u unit, eliminating s    | such interests, has bee  | n approved by the Commis-         |  |  |  |  |  |  |
| sion.   | · · · · · · · · · · · · · · · · · · ·  |                                       |                          |                          |                                   |  |  |  |  |  |  |
|   |  |                                       |                          |                          |                                   |  |  |  |  |  |  |
|   | i  |                                       | i                        |                          | CERTIFICATION                     |  |  |  |  |  |  |
|   | l<br>I   |                                       | j                        |                          |                                   |  |  |  |  |  |  |
|   |  |                                       | 1                        | I hereby                 | certify that the information con- |  |  |  |  |  |  |
|   |  |                                       | 1                        | tained h                 | erein is true and complete to the |  |  |  |  |  |  |
|   | 1  |                                       | I                        | 1 i .                    | ny knowledge and belief.          |  |  |  |  |  |  |
|   |  | I                                     | i                        | 11                       |                                   |  |  |  |  |  |  |
|   | Ì  |                                       | !<br>!                   |                          |                                   |  |  |  |  |  |  |
|   |  |                                       | •                        | Name                     |                                   |  |  |  |  |  |  |
|   |  |                                       |                          |                          | PCrump.                           |  |  |  |  |  |  |
|   | ı  |                                       | 1                        | Position                 | · compensation                    |  |  |  |  |  |  |
|   | l  |                                       |                          | Ged                      | logist                            |  |  |  |  |  |  |
|   |  |                                       | Ì                        | Company                  |                                   |  |  |  |  |  |  |
|   | i  |                                       | İ                        |                          |                                   |  |  |  |  |  |  |
|   | 1  |                                       | 1                        | Date BOI                 | IN OIL COMPANY                    |  |  |  |  |  |  |
|   | 1  |                                       | Jornal Company           | Date                     | 1/-1/-6                           |  |  |  |  |  |  |
|   | 1  | Sec                                   |                          |                          | 424/78                            |  |  |  |  |  |  |
|   |  |                                       | <del>/-//</del>          | <del></del>              |                                   |  |  |  |  |  |  |
|   | <u> </u>   | 4                                     | -                        | .                        |                                   |  |  |  |  |  |  |
|   |  |                                       | 1                        | 1 hereby                 | certify that the well-location    |  |  |  |  |  |  |
|   | ,  |                                       | ( )                      | shown or                 | this plat was plotted from field  |  |  |  |  |  |  |
| 11601   |  |                                       |                          | 1 1                      | actual surveys made by me or      |  |  |  |  |  |  |
| TIC.).  | <del></del> ⊚ I  |                                       | !                        | P 1                      | supervision, and that the same    |  |  |  |  |  |  |
|   |  |                                       | 1                        | 1 l                      | and correct to the best of my     |  |  |  |  |  |  |
|   | 1  |                                       | 1.                       |                          | ge and belief.                    |  |  |  |  |  |  |
| L   |  | 1 =                                   |                          |                          | ye dire berief.                   |  |  |  |  |  |  |
| I   |  |                                       | Ţ <b></b> -              | - <b>- 7</b>             |                                   |  |  |  |  |  |  |
| 1   |  |                                       | İ                        |                          |                                   |  |  |  |  |  |  |
|   |  | I                                     |                          | Date Surve               | yed                               |  |  |  |  |  |  |
| 1   | <u> </u>   |                                       | 1                        | Januar                   | y 18, 1978                        |  |  |  |  |  |  |
| 1   | 181  | 1                                     | 1                        | Registered               | Professional Engineer             |  |  |  |  |  |  |
| 1   |  | 1                                     | i                        | and/or Lan               |                                   |  |  |  |  |  |  |
| 1   |  |                                       | 1                        | ند ا هـ ا                | BATTO                             |  |  |  |  |  |  |
|   |  | 1                                     | <u>}</u>                 | Fred B                   | Kenn dw                           |  |  |  |  |  |  |
|   |  |                                       |                          | Contification            |                                   |  |  |  |  |  |  |
| 0 330 660 9   | 0 1320 1650 1980   | 2310 2640 2000                        | 1500 1000                | 3950 a 3950              |                                   |  |  |  |  |  |  |

## Schematic Diagram B.O.P.



Series 900 Double Gate Bop rated at 3000 psi Working Pressure

## BOLIN OIL COMPANY

1120 Oil and Gas Building — WICHITA FALLS, TEXAS 76301 — (817) 723-0733

#### Local address:

P. O. Box 400 Aztec, New Mexico 87410

> United States Geological Survey Federal Building Camino Del Rio Durango, Colorado 81301

#### Gentlemen:

BOLIN OIL COMPANY is filing this application for permit to drill a developmental gas well to be designated <u>Candado #22</u> in the SW/4 of Section 4, Township 26 North, Range 7 West, Rio Arriba County, New Mexico. Some estimated tops of geologic markers in the area are as follows: Kirtland @ 2180', Pictured Cliffs @ 2800', Chacra @ 3720', and Point Lookout @ 5100'. Gas production is projected for the Chacra formation and the Point lookout member of this Mesaverde test.

The proposed casing program is as stated on the accompanying Federal form  $9\text{--}331~\text{C}_{\bullet}$  New pipe will be used in all instances and cemented to the surface.

Hydraulic blow-out preventors, as shown on the schematic diagram attached to the Application for Permit to Drill, will be used. The drilling medium will be fresh water and gel to 300' and fresh water and low water loss mud to total depth. Mud will be monitored through out operation. No abnormal pressures/temperatures are anticipated in this well.

The expected starting date of this operation is as soon as possible, as indicated on Form 9-331 C, subject to availability of equipment.

The following measures are proposed as a surface use plan:

Existing roads: The accompanying U.S.G.S. topographic Map I (2" = 1 mile) includes a readily identified reference point and the main access road as well as all existing access roads within a mile of the proposed location.

- Planned access roads: The planned access road to the location is indicated on the accompanying Map I. It will leave an already existing access road used in servicing field wells. The road will be about 800' long and 15' wide. The maximum gradient is approximately 4%. Adequate drainage is easily accomplished by slightly elevating the center line of the road in this arid locale. The proposed route of the road has been inspected. There are no gates, cattle guards or fences involved in the construction of the planned road.
- Jocation of existing wells: All existing wells within a mile radius of the proposed location are shown on the vicinity map included for your information. There are no abandoned wells or water wells in the area.
- Location of tank batteries, production facilities, and production gathering and service lines: Please refer to vicinity map #2. Any tanks or production facilities needed by the operator will be situated on the wellsite. The applicant for this permit to drill does not own nor control any gathering facilities and consequently, only the location of the proposed flow line to the existing facility is shown on Map I; the line will be buried. Plans for rehabilitation of any disturbed areas are included in Step 10 of this plan for surface use and operations.
- 5) <u>Location and type of water supply</u>: Fresh water for drilling will be hauled by tank truck from ponds in Largo Canyon.
- 6) Source of construction materials: No additional materials will be required.
- Methods for handling waste disposal: There are but small amounts of cuttings, drilling fluid, garbage and other waste
  involved in drilling a test of this type; such waste will be
  placed in the reserve pit. The pit will be filled and leveled immediately upon completion of drilling, when possible, or
  fenced and allowed to dry before filling. The material used
  in filling the pit will be the spoil resulting from constructing it.
- 8) Ancillary facilities: No camps or airstrips are to be constructed.
- 9) Well site layout: See attached Exhibit #3.

- Plans for restoration of the surface: Successful well All waste material will be picked up and deposited in the reserve pit. The pit will be fenced until it can be filled and leveled. The location will be dressed with a dozer or blade. The access road will have borrow pits or other drainage facilities added, if necessary. Re-seeding operations will be carried out as prescribed using Mixture #1, Farmington Resource Area. Paint for surface equipment will be Green #595 34127 . Dry Hole: Waste material will be handled as stated above. In addition to filling and leveling the reserve pit, the access road will be dressed so the original contour is restored as much as possible. The road and drillsite will then be re-seeded using the time period, equipment and Mixture #1, as set forth in BLM "Requirements in the Farmington Resource Area".
- Other information: Rocks of Eocene age are exposed at the surface throughout the general area. Individual sandstone members of the San Jose formation weather into a series of massive cliffs interspersed by plateaus receding from the drainage pattern. Largo Canyon and its tributaries comprise the major drainage system. It carries water only intermittently. Topographic relief in excess of 700 feet is present between the Canyon floor and the higher plateaus. The soil mantle, where present, is derived from the sandstones of the San Jose and the sparce vegetation. Juniper and Pinon are present on the table lands, as well as some native grasses and sagebrush. Wild life is not abundant in the area and consists mostly of coyotes, rabbits and occasionally deer. The surface land in this entire area is owned by the Federal government.

There are no occupied dwellings in the vicinity. Water wells, permanent ponds and flowing streams are non-existent.

The archeological aspects of the location are covered in the attached report by Dabney Ford, archeologist.

Lessee's or operator's representative: Mr. Fred Crum, P. O. Box 400, Aztec, New Mexico 87410. Phone: 505 / 334-6003. Please direct all correspondence regarding this application to this address.

## 13) <u>Certification</u>:

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,

U.S.G.S. page 4

.....true and correct; and, that the work associated with the operations proposed herein will be performed by BOLIN OIL CC. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date 424/78

Name A. H. Crumbr.

Title agent

DOLIN OIL COMPANY

Plat to show the relationship to and distances from new locations to existing wells in Section 4-T26N-R7W Rio Arriba County, New Mexico

New Locations:

#21 Candado

NE/4

#21A Candado

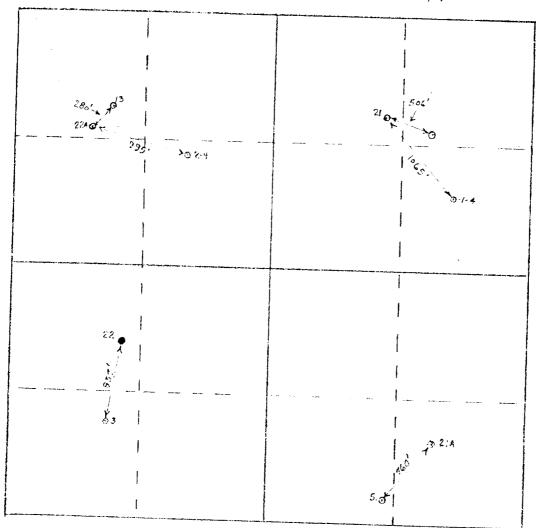
SE/4

#22 Candado

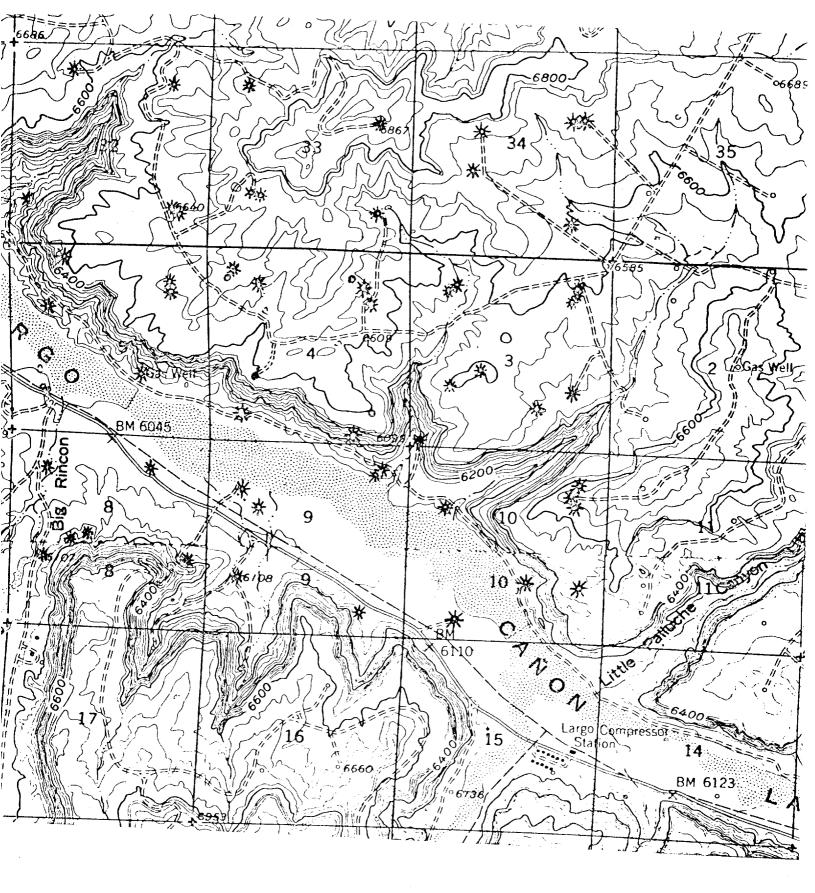
SA/L

#22A Candado

NW/4



Fred B. Heft Jr. New Max. Reg. #3950



#### KEY

- Locatable reference point

- Planned access road

- Existing road

- Proposed location

- Producing wells as far as known

- Route of proposed flow line to existing gathering line (MPNG)

MAP I

CANDADO # 22

POLIN OIL COMPANY

EXHIBIT #3

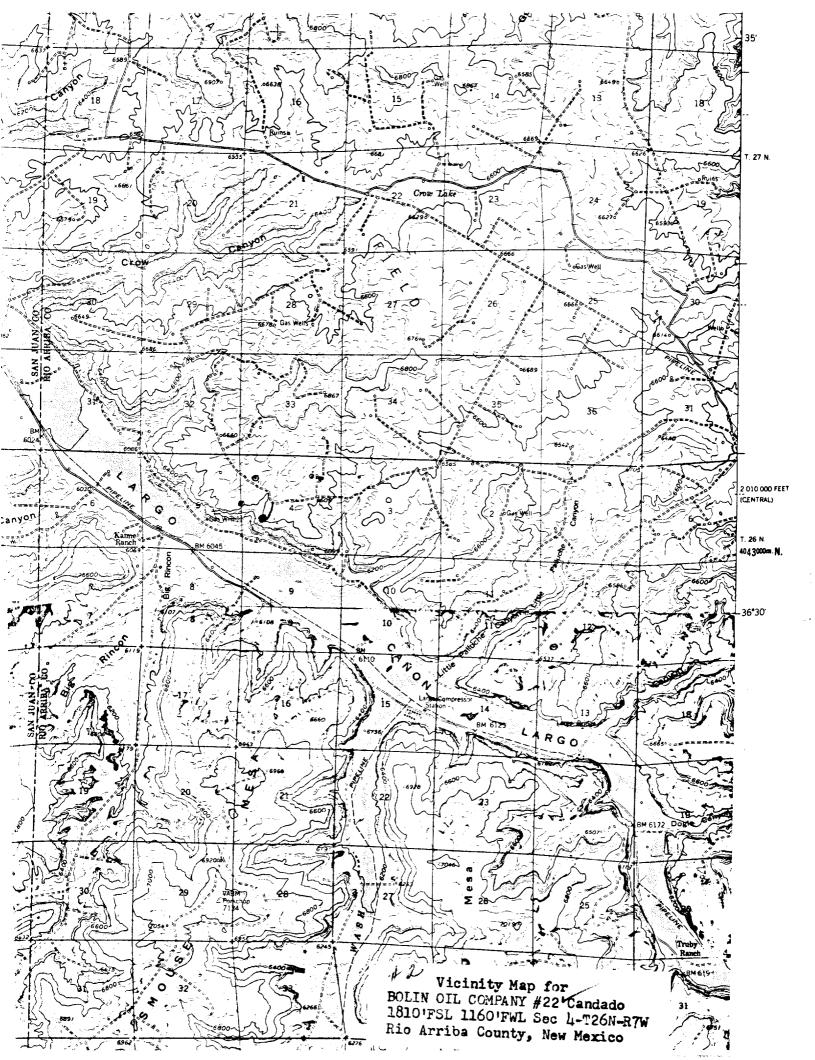
BOLIN OIL COMPANY

CAMDADO # 22.2

Maria Maria

\$e>

REG WORL THE HEALTH WAR IN THE SERVICE





An Archaeological Clearance Survey of Three Proposed Well Locations & Two Access Roads Conducted for Bolin Oil Company

Dabney Ford

#21 Candado •#22 Candado #22A Candado

Report 78-SJC-015

of the

Cultural Resource Management Program

San Juan Campus

New Mexico State University

28 February 1978

Report 78-807-008 Permit 78-NM-008

An Archaeological Clearance Survey of Three Proposed Well Locations & Two Access Roads Conducted for Bolin Oil Company

> Dabney Ford Cultural Resource Management Program San Juan Campus N. M. State University 28 February 1978

An Archaeological Clearance Survey of Three Proposed Well Locations & Two Access Roads Conducted for Bolin Oil Company

On February 27, 1978 Dabney Ford of the Cultural Resource
Management Program, NMSU, San Juan Campus, conducted an archaeological
clearance survey at the request of Mr. Fred Crum of Bolin Oil Co.
Present during the survey were Mr. Crum, Mr. Don Englishman; U. S.
Geological Survey representative - Durango office, and Mr. Tim
Kreager; Bureau of Land Management representative - Farmington
office. All three well locations and access roads are on Bureau
of Land Management lands and were surveyed under Federal Antiquities
permit 75-NM-013.

#### METHODOLOGY

The locations were surveyed by walking transects 75 feet apart over the entire easement. The access routes were surveyed by walking down the centerline the length of the right-of-way.

### GENERAL RECOMMENDATIONS

No cultural resources were found on the proposed constructions and full archaeological clearance is recommended.

### BOLIN OIL - #22 CANDADO

Land Status: Bureau of Land Management

Location: SE% of the NW% of the SW% of Section 4, Township 26

North, Range 7 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The well will be 1810 feet from the south line and 1160 feet from the west line of Section 4. A 300 X 300 foot area was surveyed.

Access: 800 feet long and 20 feet wide approaching the location

from the north northeast.

Terrain: Broken mesa edge with southwesterly drainage, alluvial

surface deposits, and sandstone outcrops.

Soil: Sandy rocky loam.

Vegetation: Sagebrush, blue grama, prickly pear, Yucca baccata,

juniper, pinon, galleta, narrow leaf yucca, mountain

mahogony, and snakeweed.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

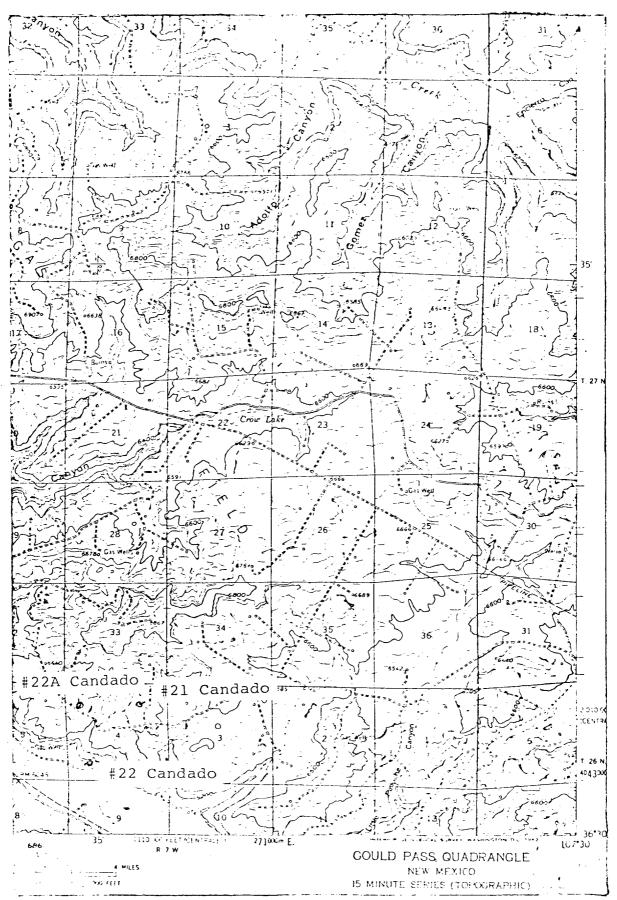


Figure 1

