

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-21281

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☒

## 2. NAME OF OPERATOR

Bolin Oil Company

## 3. ADDRESS OF OPERATOR

1120 Oil &amp; Gas Bldg, Wichita Falls, Texas 76301

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

885' from North line &amp; 790' from East line

At proposed prod. zone

Mesa Verde

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

20 miles South East Blanco

## 16. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

790'

## 16. NO. OF ACRES IN LEASE

2,561.04

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

364.7259

## 19. PROPOSED DEPTH

5200'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

E / 320

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6624' Ground Level

## 22. APPROX. DATE WORK WILL START\*

As soon as possible

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	28#	130'	Enough to Circulate
7 7/8"	5 1/2"	15.50#	5,200'	Enough to Circulate

## Proposed Drilling Program:

Drill 12 1/4" hole to 130'. Set 8 5/8" csg. @130' KB & circulate cement to surface. Wait on cement 12 hrs.

Drill 7 7/8" hole to estimated 5200'.

Run necessary logs for adequate evaluation.

Complete by setting 5 1/2" csg. & circulating cement to surface, perforating & sandfracing.

If well is dry, will P&A as per regulations.

Hydraulic blowout preventers will be installed on surface pipe & opened & closed daily to test operations, results to be recorded on daily drilling report.

*Gas not dedicated*

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.

24. SIGNED M. H. Lewis TITLE Prod. Supt. DATE 8/24/76

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**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.

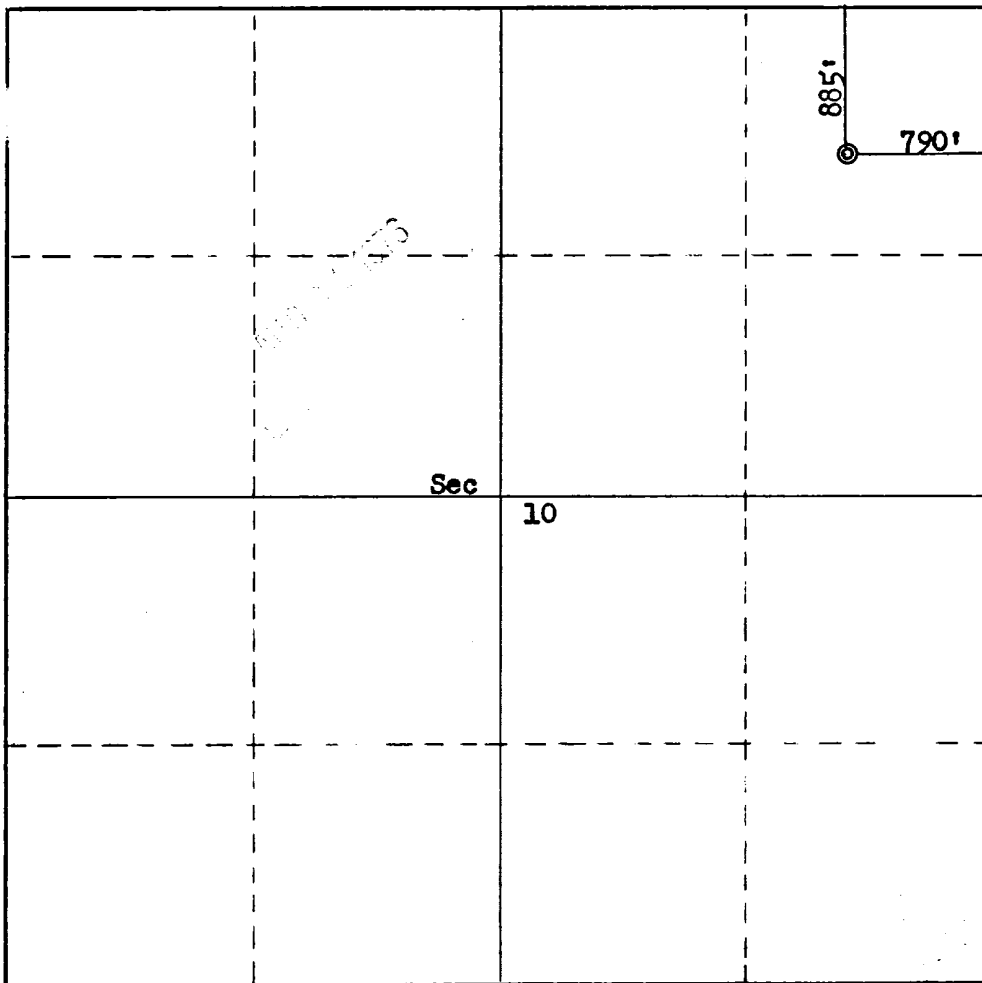
Operator <b>Bolin Oil Company</b>			Lease <b>Candado</b>		Well No. <b>17</b>
Unit Letter <b>A</b>	Section <b>10</b>	Township <b>26N</b>	Range <b>7W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>885</b> feet from the <b>North</b> line and <b>790</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6624</b>	Producing Formation <b>Mesaverde</b>		Pool <b>Blanco Mesaverde</b>		Dedicated Acres: <b>320</b> 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 communization, unitization, force-pooling, etc?

☐ Yes    ☐ No    If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list 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 communization, 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 *F. P. Crum Jr.*

Position **agent**

Company **BOLIN OIL COMPANY**

Date *8/23/76*

*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.*

Date Surveyed

*July 1, 1976*

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr Jr.*  
**Fred B. Kerr Jr.**

Certificate No.

**3950**

# BOLIN OIL COMPANY

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

August 17, 1976

United States Department of the Interior  
Geological Survey  
Oil and Gas Operation  
P. O. Box 1809  
Durango, Colorado 81301

Gentlemen:

Bolin Oil Company is filing this application to drill a development gas well to be designated as Candado #17 in the Northeastern quarter of Section 10, Township 26 North, Range 7 West, Rio Arriba County, New Mexico. The following measures are proposed to comply with the plan for surface use and operations:

- 1) Existing roads. The accompanying U.S.G.S. topographic map (2" = 1 mile) includes a readily identified reference point and the main access road as well as all existing access roads within a 3 mile radius of the proposed location. The existing access road by which the location can be reached has been filled in by red coloring.
- 2) Planned access roads. The planned access road to the location is indicated by red ink on the accompanying map. It will leave an already existing access road used in servicing field wells. The road will be about 500 feet long and 12 feet wide. The maximum gradient is approximately 6%. Adequate drainage is easily accomplished by slightly elevating the center line of roads in this arid locale. The route of the road has been staked. There are no gates, cattle guards or fences involved in the construction of the planned road.
- 3) Location of existing wells. All existing wells within a mile radius of the proposed location are shown. There are no abandoned nor water wells in the included area.

- 4) Location of tank batteries, production facilities, and production gathering, and service lines. The proposed test is to proven gas producing formations, therefore tank batteries are not anticipated nor indicated on the map. The applicant for this test does not own nor control any gathering facilities and consequently only the location of the proposed flow line to the existing facilities is shown on the map; 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) Location and type of water supply (rivers, creeks, lakes, ponds, and wells). Fresh water for drilling will be hauled by tank truck from ponds in Largo Canyon.
- 6) Source of construction materials. None are needed.
- 7) 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.
- 10) 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 dozer or blade. The access road will have borrow pits added if necessary.

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 that the topography is restored to its original

condition. The road and drillsite will then be re-seeded using the equipment and Mixture #1 as set forth in the BLM "Requirements in the Farmington Resource Area". This directive states that "all seeding will take place between July 1 and September 15". The operator will conform to these dates for replanting within 90 days after completion of the test, when possible.

- 11) 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 sparse 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 R. B. Grove, archeologist.

There are no cuts or fills entailed in building the access road nor any measures necessary to accommodate potential geologic hazards.

- 12) Lessee's or operator's representative. Mr. Fred Crum, P. O. Box 400, Aztec, New Mexico 87410. Phone 505 + 334-6003.
- 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

U. S. Dept. of Interior  
Page Four  
August 13, 1976

*Bolin Oil Co.*

herein will be performed by *Joe Kaine*  
and its contractors and sub-contractors in conformity with this  
plan and the terms and conditions under which it is approved.

Date *8/24/76*

Name and Title *F. P. Cronin Jr.*  
*Agent*

Archeological Survey of Two  
Proposed Natural Gas Well Locations  
Conducted for Bolin Oil Company

R. B. Grove

Report 76-SJC-068  
of the  
Cultural Resource Management Program  
San Juan Campus  
New Mexico State University

7 July 1976

Archeological Survey of Two  
Proposed Natural Gas Well Locations  
Conducted for Bolin Oil Company

This survey was conducted on 1 July 1976 by R. B. Grove of New Mexico State University (Federal Antiquities Permit 75-NM-013). The proposed wells will lie on Bureau of Land Management lands in Rio Arriba County, New Mexico. In each case the entire area to be disturbed by construction of the proposed well locations and associated access roads was visually inspected in a walking survey. Nothing was found in the course of the survey to indicate that the proposed construction will have any direct or indirect adverse effects on cultural resources.

Proposed Well Candado #17 to be located 885 feet from the north line and 790 feet from the east line of Section 10, Township 26 North, Range 7 West, N.M.P.M. (Figures 1 and 2).

This well will lie on a slope below the Candado #14 location. The soil at the location is generally shallow with considerable sandstone bedrock exposed on the northwest edge of the location. The vegetation at the location consists primarily of pinon, juniper, blue gramma, snakeweed and mormon tea. Access to the location will be by a new road from an existing right-of-way to the east. While no cultural remains were discovered at the location or on the access road, one site was found on the nearby Candado # 14 location. That site was completely leveled when the location was built in 1956. The cultural remains are now spread over an area of about 30 X 60 meters. It is possible that there are relatively intact remains below the ground surface, but this does not seem very likely in view of the extent of the earth



moving activities associated with the construction of well locations. The age of this site has not yet been established but it appears to antedate the eighteenth century Navajo sites common to the area. The condition of this site and its distance from the proposed location suggest that this site will not be further damaged by the proposed construction.

Proposed Well Candado #17A to be located 1450 feet from the south line and 790 feet from the east line of Section 10, Township 26 North, Range 7 West, N.M.P.M. (Figures 1 and 3).

This well will lie on a gentle sandy slope above and to the east of Largo Canyon. Vegetation at the location consists principally of blue gramma, galleta, and snakeweed although there is also a thin scatter of pinons and junipers at the location and along the access route. The access road will be about 800 feet long and will run generally southward from an existing road as it skirts a low ridge to reach the location.

Figure 1  
Location of Proposed Wells Candado #17 and Candado #17A

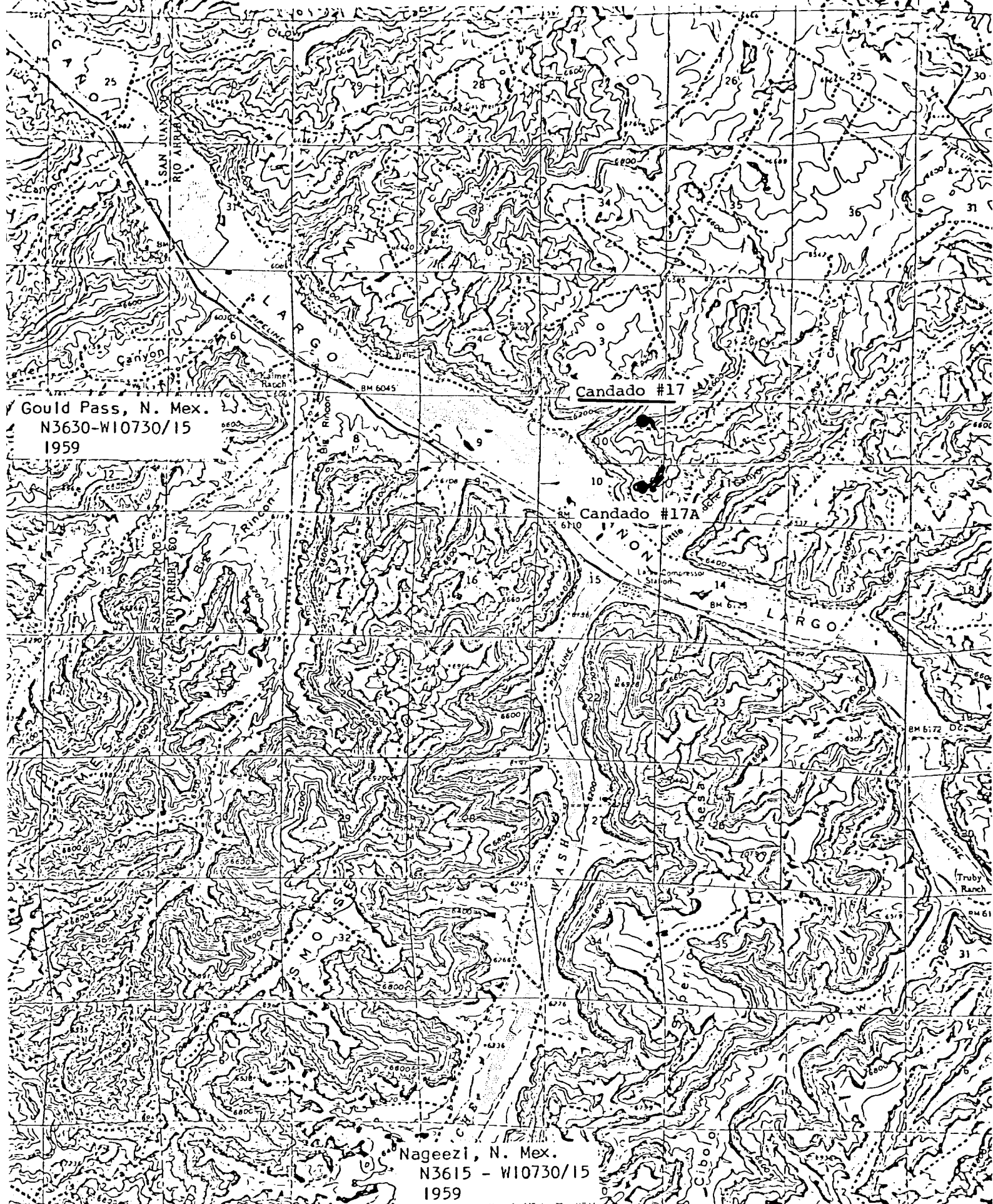
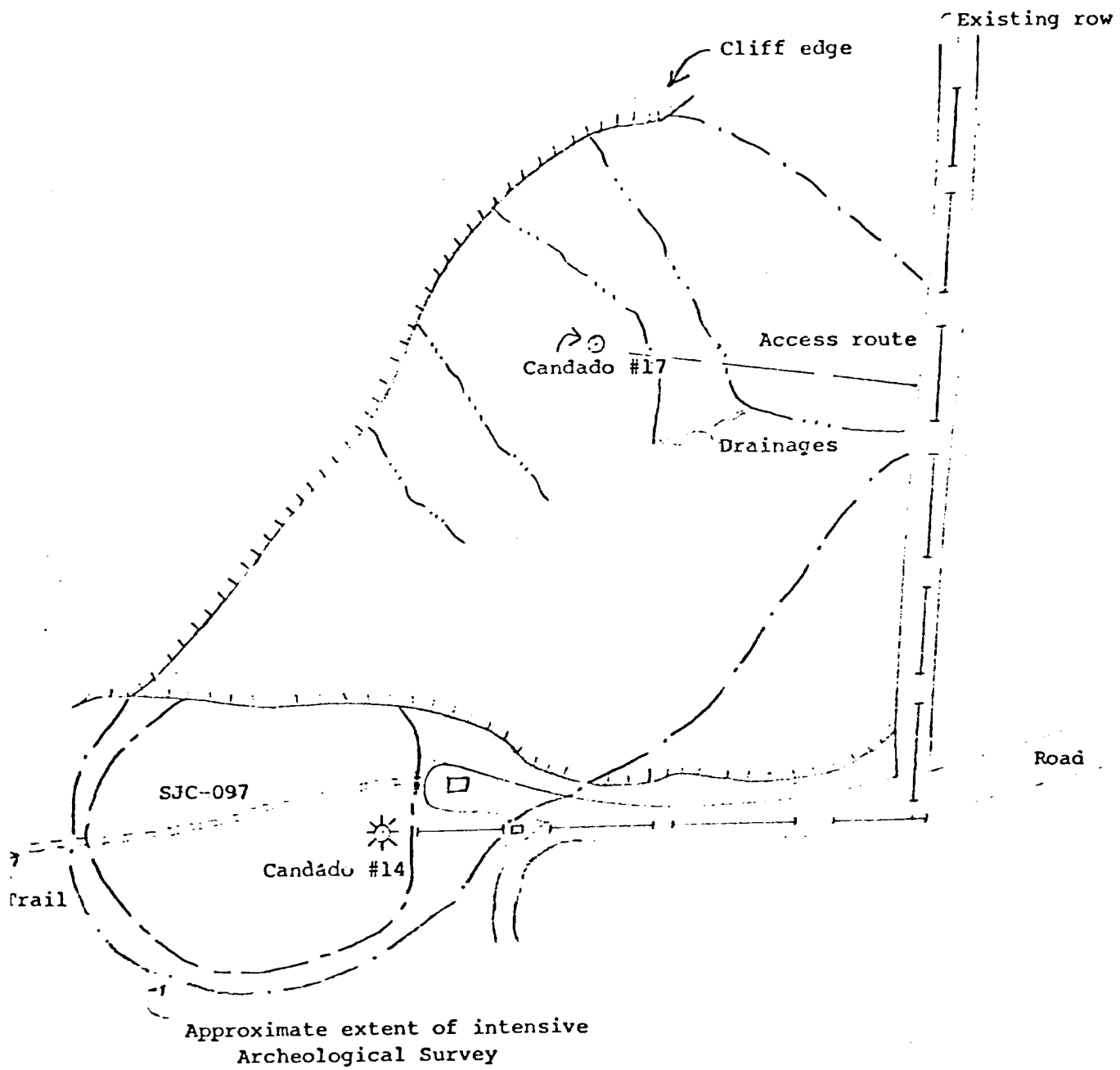


Figure 2  
Vicinity of Candado #17



100 feet

Figure 3  
Vicinity of Candado #17A

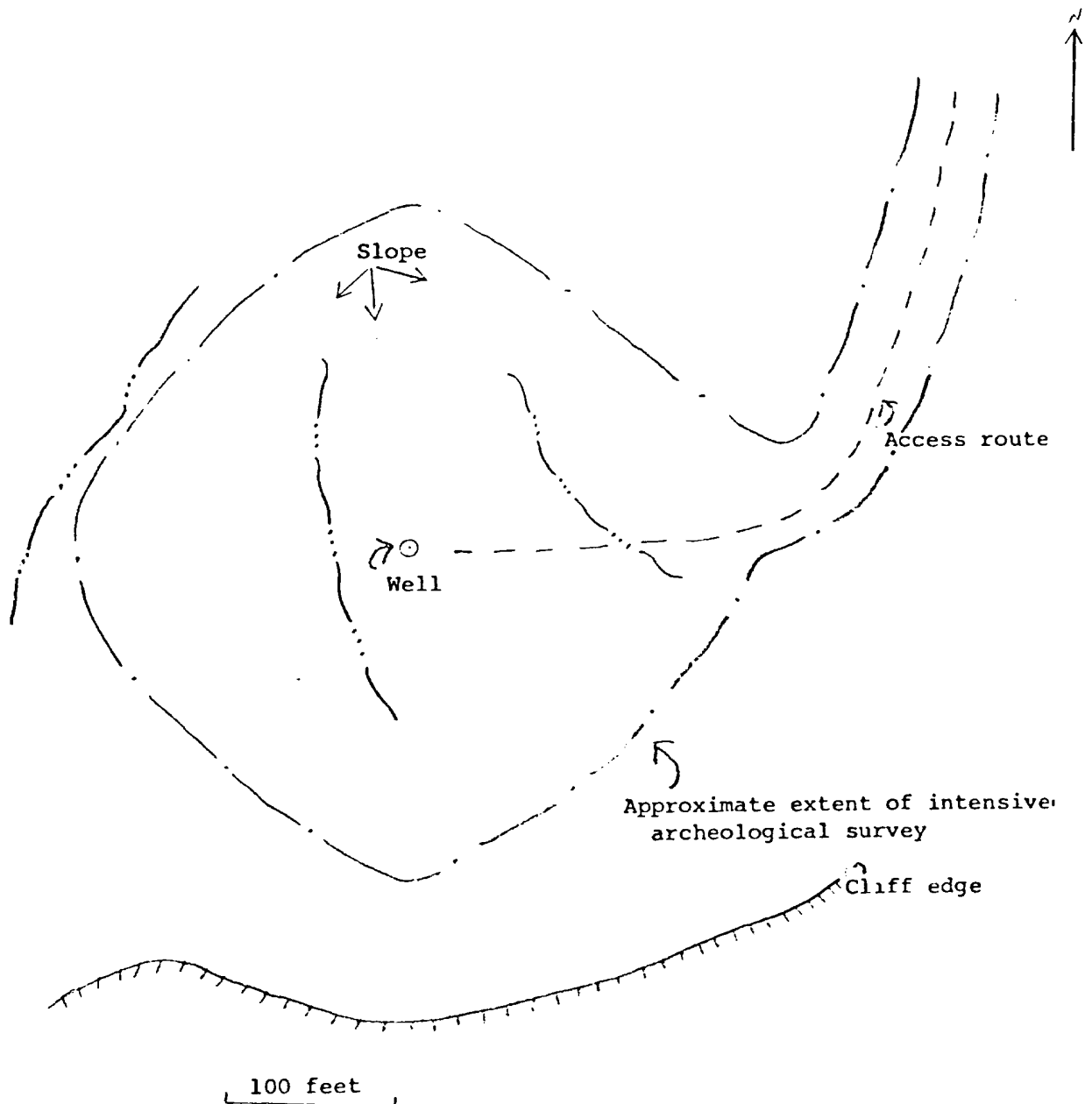
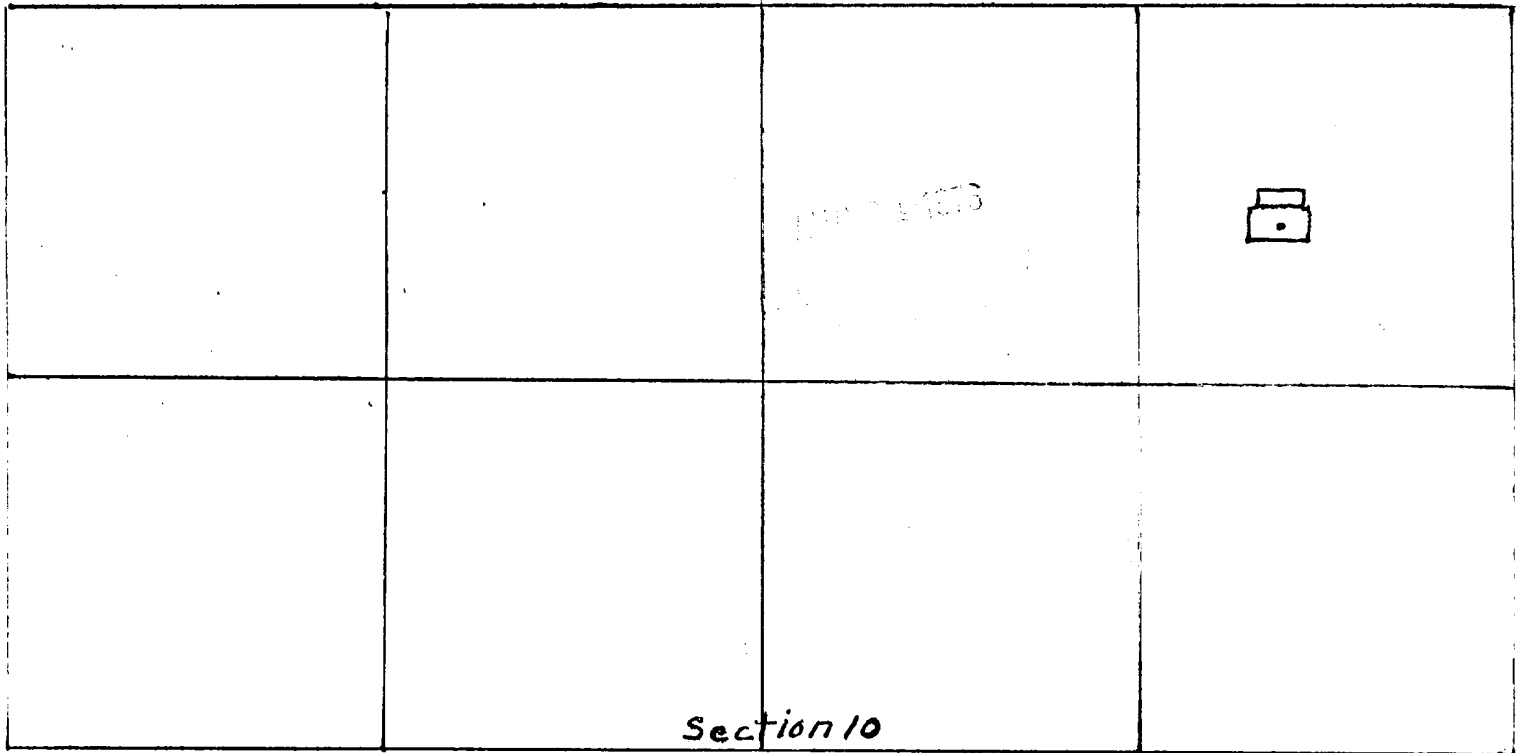


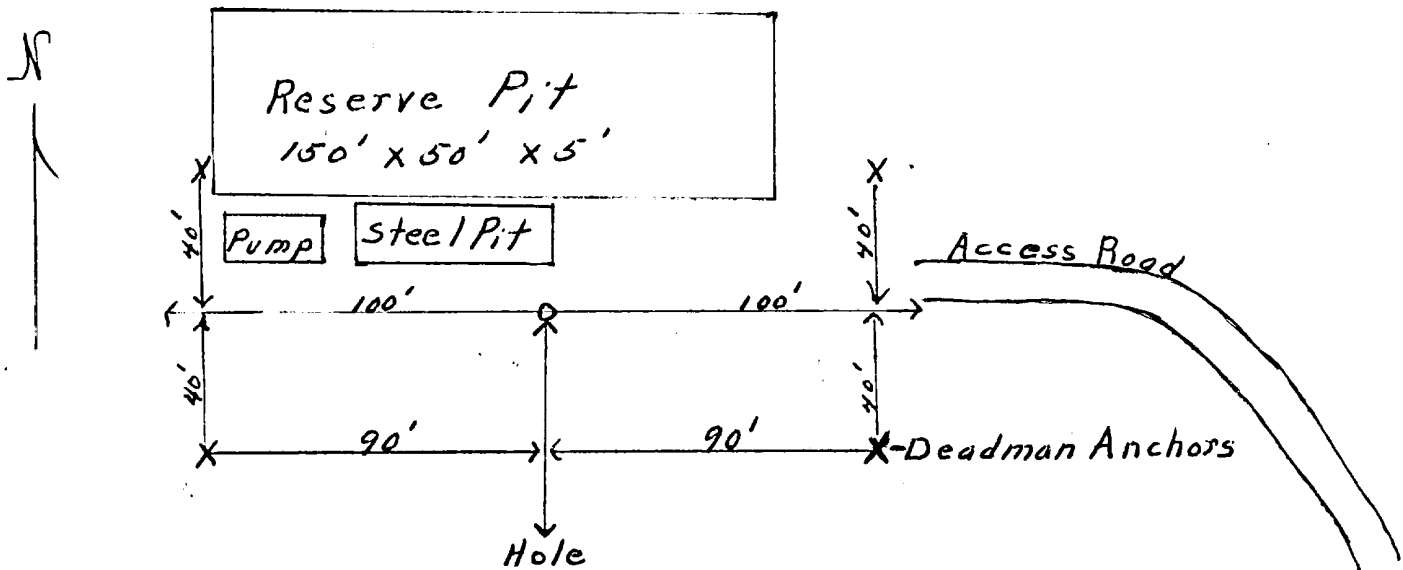
EXHIBIT #3

BOLIN OIL COMPANY

CANDADO #17



$N\frac{1}{2}$



RIG WILL SIT ON LOCATION AS SHOWN W/ RESERVE PIT TO THE NORTH.

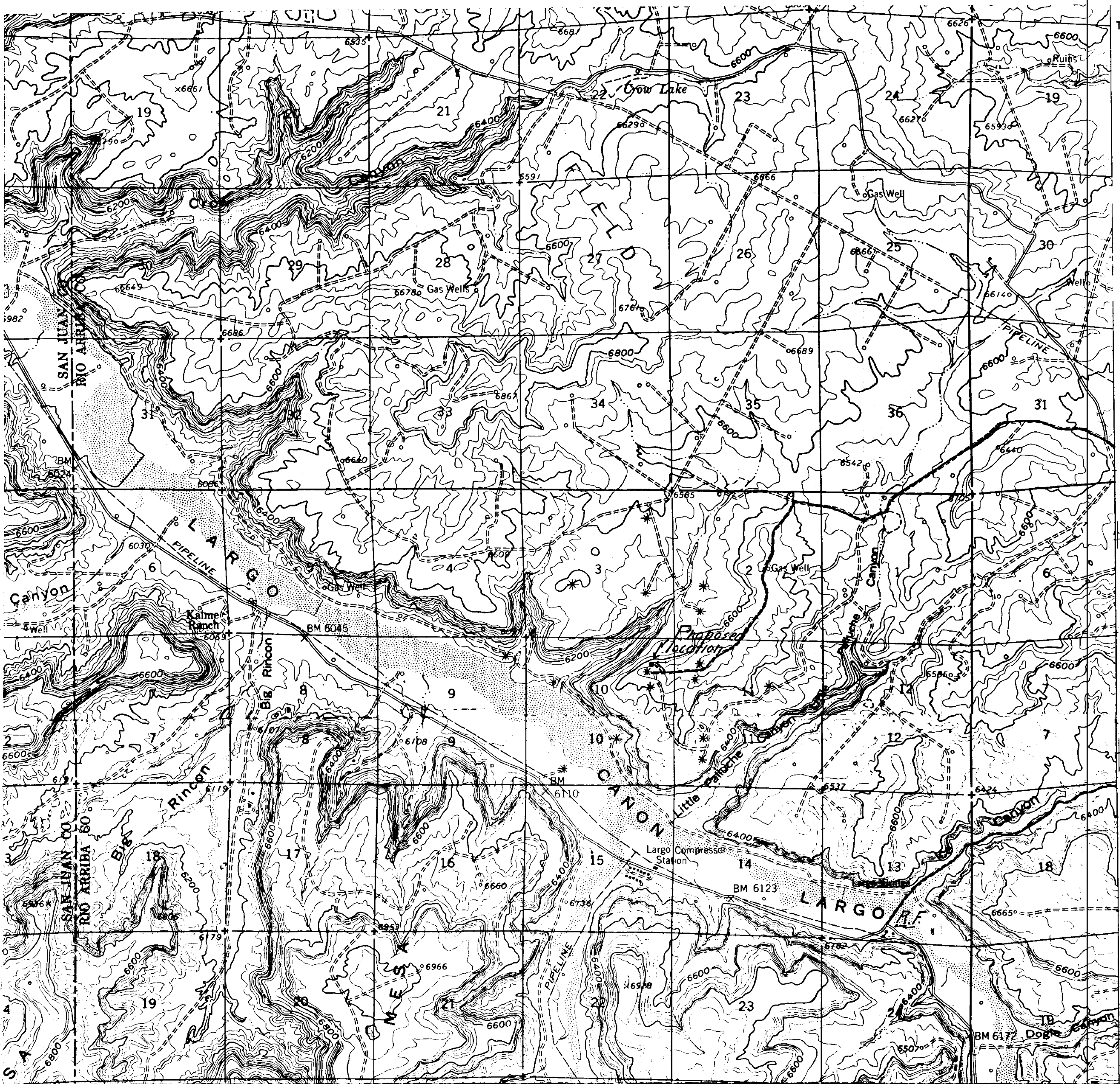
R7W

T. 27 N.

2 010 000 FEET  
(CENTRAL)

T. 26 N.  
4043000m. N.

36°30'  
2 000 000 FEET  
(WEST)



# LEGEND

- R.F. = Locatable reference point
- == = Planned access road
- = Existing access road
- = Main access road
- = Proposed location
- \* = Producing gas well
- = Route of proposed flow line to existing gathering line of El Paso

SCALE = 2" = 1 Mile