

6-USGS, Durango, Colo.

1-B  
Form 3-331C  
(May 1963)  
1-F

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved  
Bulger Bureau No. 42-R1425

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-039-25131  
LEASE DESIGNATION AND SERIAL NO.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SF #079161

6. IF INDIAN, A LOTTEE OR TRIBE NAME

1a. TYPE OF WORK

DRILL ☒

DEEPEN

PLUG BACK

7. UNIT AGREEMENT NAME

b. TYPE OF WELL

GULF

CAN

WELL

OTHER

SINGLE

MULTIPLE

ZONE

X

2. NAME OF OPERATOR

Bolin Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 400, Aztec, New Mexico 87410

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

At surface

845' FNL / 1450' FEL (Unit B) Sec. 9 T26N R7W

At proposed prod. zone

Mesaverde

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

Approximately 25 miles SE/Blanco, New Mexico

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

845'

2,561

18. DISTANCE FROM PROPOSED LOCATION\*

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

450'

4,800'

21. ELEVATIONS (Show whether DE, RT, GR, etc.)

6060' GL

12. COUNTY OR PARISH 13. STATE

Rio Arriba

N. Mex.

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED

TO THIS WELL

E/ 320

20. ROTARY OR CABLE TOOLS

Rotary

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"	24#	300'	To circulate to surface.
7 7/8"	5 1/2"	15.50#	4,800'	To circulate to surface.

Proposed drilling program:

Drill 12 1/4" hole to 300'. Set 8 5/8" csg. & circulate cement to surface.

W.O.C. 12 hrs.

Drill 7 7/8" hole to estimated 4800'.

Run necessary logs for adequate evaluation.

Complete by setting 5 1/2" csg. & circulate cement to surface. Perforate & sand frac.

If dry, will P & A as per regulation.

Hydraulic B.O.P. will be installed & operated daily; results to be noted on daily drilling report. (Schematic diagram attached.)

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 prevention program, if any.

24.

SIGNED

*M. J. C. Smith Jr.*

agent

DATE

7/30/79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

FILE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*ok E. Smith*

\*See Instructions On Reverse Side

5-1-1

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.


Operator <b>BOLIN OIL COMPANY</b>		Lease <b>CANDADO</b>		Well No. <b>23</b>
Unit Letter <b>B</b>	Section <b>9</b>	Township <b>26N</b>	Range <b>7W</b>	County <b>Rio Arriba</b>
Actual Footage Location of Well: <b>845</b> feet from the <b>North</b> line and <b>1450</b> feet from the <b>East</b> line				
Ground Level Elev. <b>6060</b>	Producing Formation <b>Mesa Verde</b>	Pool <b>Blanco</b>	Dedicated Acreage: <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 communitization, unitization, force-pooling, etc?

☐ Yes ☐ No 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.

Sec.		9
		

## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name  
*Fred B. Kerr, Jr.*

Position  
**Geologist**

Company  
**BOLIN OIL COMPANY**

Date  
**7/30/79**

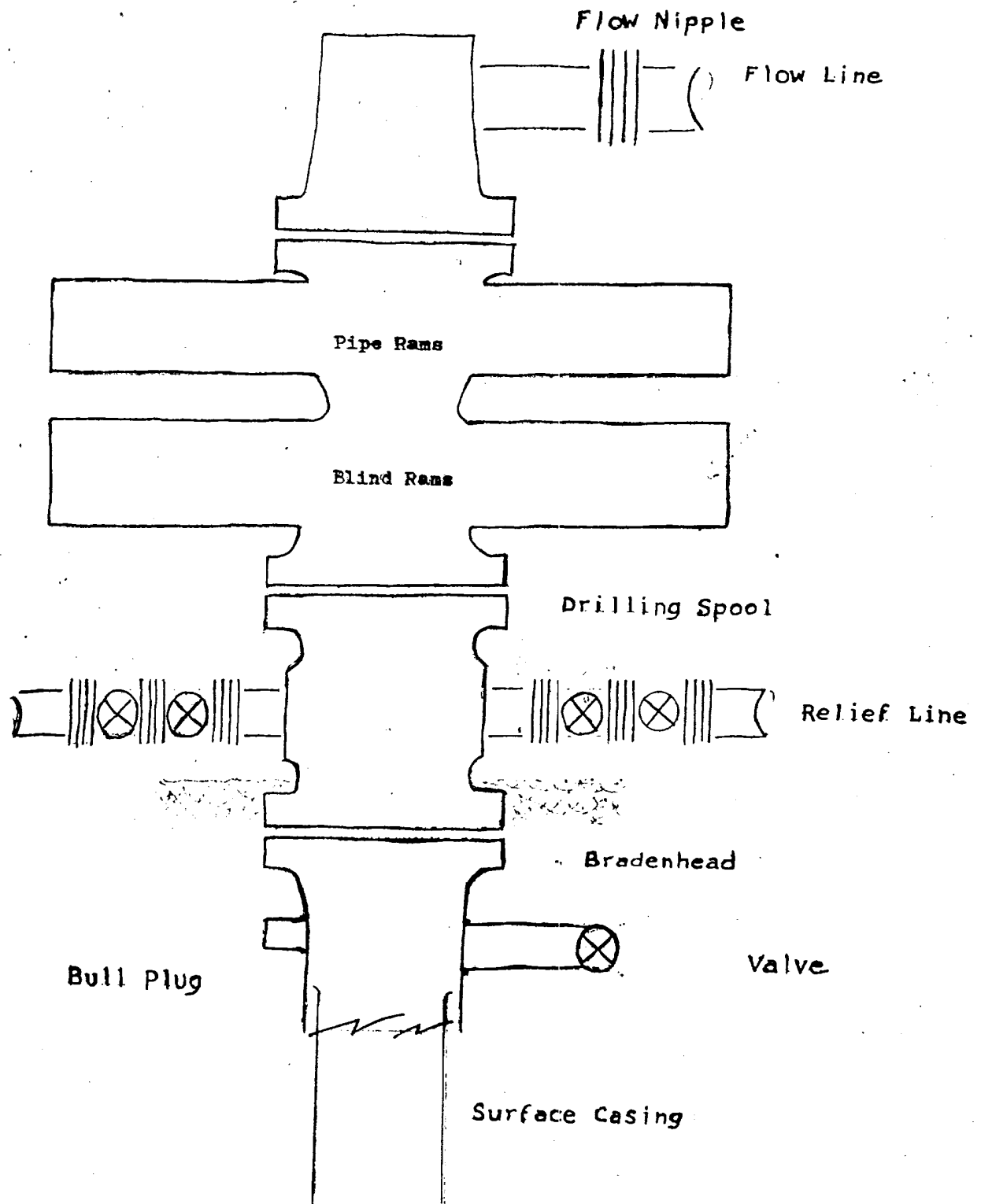
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**July 1979**

Registered Professional Engineer and/or Land Surveyor  
*Fred B. Kerr, Jr.*

Certificate No. **2050**

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  
701 Camino Del Rio  
Durango, Colorado 81301

Re: Proposed Candado #23  
NE/4 Sec. 9 T26N R7W  
Rio Arriba County, N. M.

Gentlemen:

POLIN OIL COMPANY is filing this application for permit to drill the above captioned developmental gas well. Some estimated tops of geologic markers in the area are as follows: Kirtland @ 1660', Pictured Cliffs @ 2200', Chacra @ 3100' and Point Lookout @ 4475'. Gas production is projected for the Chacra formation and the Pt. Lookout member of this Mesaverde test.

The proposed casing program is as stated on the accompanying Federal form 9-331 C. New pipe will be used in all instances and cemented to the surface.

Hydraulic blow-out preventers, 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 the availability of equipment.

The following measures are proposed as a surface use plan:

- 1.) Existing roads: The accompanying U.S.C.S. topographic Map #1 (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.

- 2) 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 for servicing field wells. The road will be about 15' wide and 450' long. The maximum gradient is approximately 1%. 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.
- 3) Location 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.
- 4) 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) Location and type of water supply: 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.
- 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 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 Gray #595 36357. 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".

- 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 Bill Naylor, archeologist.

- 12) 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) 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,

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 CO. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

7/30/79

Name

F. P. Crum Jr.

Title agent

BOLIN OIL COMPANY

# Archeology clearance

-3-

Proposed Well: CANDADO #23

Land Status: Bureau of Land Management

Location: 845 feet from the North line and 1450 feet from the East line of Section 9, Township 26 North, Range 7 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 1)

Pad size: 100 X 200 feet.

Access: 30 feet wide, 450 feet long from due East.

Area surveyed: 2.38 acres.

Terrain: Level floodplain of Largo Wash.

Soil: Alluvial sand.

Vegetation: Tamarisk, clover, sagebrush, saltbush, and wild mustard.

Cultural Resources: None found on access or near location.

SITE SJC-471: A Refugee pueblito 500 feet due North of well head stake. (Figures 1, 2, 3) The site is composed of a two room structure built upon and covering the top of a sandstone boulder and an eroded trash mound southwest of the boulder. The pueblito was built of eight inch wide sandstone blocks cemented with adobe mortar. The entire structure is ten feet wide and 15 feet long in a diamond shape with a partition wall through the center.

Though heavily eroded, the southern walls are two feet high at present while the northern portion drops to one course and rubble. The roof remains are apparent. The three by three foot trash mound is practically eroded away. What remains is soil saturated with carbon and three Dineta Utility sherds which have also been badly burned. No other artifacts were present on the surface.

Recommendations: This early 18th century site is barely visible from the proposed well pad 500 feet South and 40 to 50 feet below it. Because it is eroded and there are no artifacts around, there should be no adverse impact from the well construction, therefore, clearance is recommended.





UNIT 10  
 100' x 100' COMPANY

CALDARO 223 ✓

100' x 100' 200' x 200'  
 100' x 100' 200' x 200'



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REG WITH THE LOCATION OF THE  
 W/ RESERVE AND 9 100' x 100'

