#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

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16.1	erse	side)		

Topics are not a set		TED STATES IT OF THE IN	Other inst reverse ITFRIOR		30-039-	2/668
	**	OGICAL SURVE			5. LEASE DESIGNATION	
APPLICATION			EEPEN, OR PLUG	BACK	SF #0791 6 6. IF INDIAN, ALLOTTER	OR TRIBE NAME
la. TYPE OF WORK	Carrie Establis	10 Dilla, D	LLILIN, ON TLUG	DACN	_	
DR b. type of well	ILL X	DEEPEN [	PLUG BA	VCK □	7. UNIT AGREEMENT N	AME .
MELT G	AS OTHER		SINGLE MULT ZONE ZONE	IPLE X	8. FARM OR LEASE NAM	ME -
2. NAME OF OPERATOR  Bolin Oil Co	กการข				Candado	
3. ADDRESS OF OPERATOR	011/011/				_	
P. O. Box 40	00, Aztoc, Nev	Mexico 87	410		#21 -A	D. WILDCAM
LOCATION OF WELL (R	eport location clearly an	d in accordance with	any State requirements.*)		Blanco Moss	
At surface 840' FSL / 935' FEL (Unit P) Soc.4 T26N R7W			717	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		
At proposed prod. zon	10		_	•	AND SURVEY OR AR	EA
Mocave					Sec. 4-26N-	79 /
	AND DIRECTION FROM NE.		OFFICE*		12. COUNTY OR PARISH	13. STATE
	E/Blanco, New M	lexico			Rio Arriba	Now Mexico
5. DISTANCE FROM PROPOSED? LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  840		_	16. NO. OF ACRES IN LEASE  2,561		OF ACRES ASSIGNED HIS WELL, 720	
8. DISTANCE FROM PROPOSED LOCATION* 19 PROPOSED DEPTH 20 Proposed			ARY OR CABLE TOOLS			
OP ADDITION OF THE TRICK THE PARTY.		F	Rotary			
1. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. PATE WORK WILL START*		
6566'	GL				As coon as possible	
3.		PROPOSED CASING	AND CEMENTING PROGR	AM		<u>-                                      </u>
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	T SETTING DEPTH		QUANTITY OF CEMENT	
12 1/4"	8 5/8"	24#	300'	To circulate to surface.		aco.
7 7/8"	5 1/2"	15.5#	5300'	To circulate to surface.		
	lling Program:		5/8" cag. & circu	1		

W.O.C. 12 hrs.

Drill 7 7/8" hole to estimated 5300'.

Run necessary logs for adequate evaluation.

Complete by setting 5 1/2" cag. & circulate cement to surface. Perforate. 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 roport. (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 preventer program, if any

4.	
signed fight summer agent	DATE 3/13/78
(This space for Federal or State office use)  FRENT ST	REGELVE

CONDITIONS OF APPROVAL, IF ANY :

APPROVED BY

\*See Instructions On Reverse Side

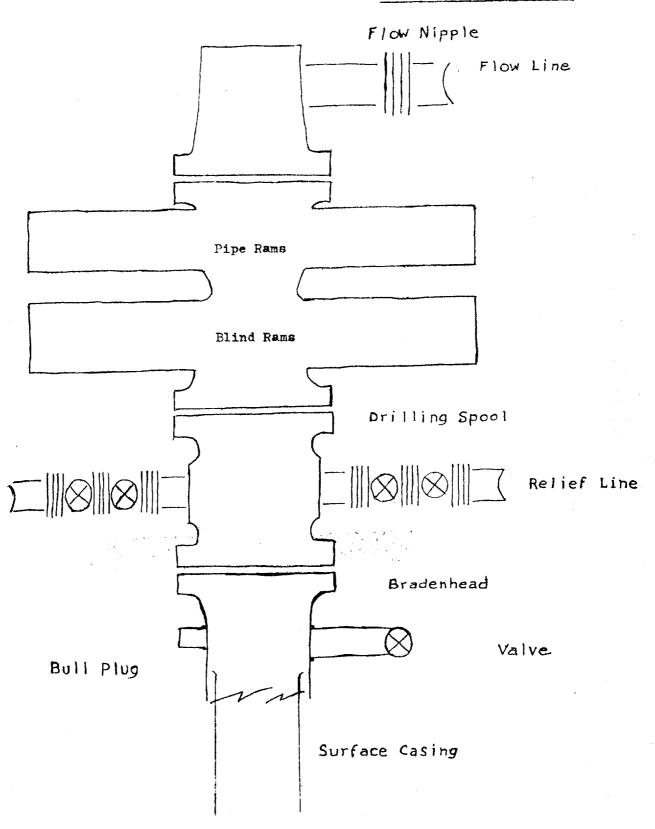
U. S. GEOLOGICAL SURVEY DURANGO, COLO.

MAR 1 4 1978

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

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

		All distances must be in	om the outer bounds	aries of the Section.	·	
Operator		,	Lease			Well No.
Bolin Oil (	Company		Candado			21A
Unit Letter	Section	Township	Range	County		
P	1.	26N	7W	Rio	Arriba	
Actual Footage Loca	ation of Well:	2011		1 1010 2	111100	
810	fact from the C	outh line and	935	fa-4 f 42	To at	
Ground Level Elev.	feet from the So		Pool	feet from the	East	line licated Acreage:
•			Blanco	_	Dec	320 Acres
6566	Mesa Ver	rde	Pranco	· · · · · · · · · · · · · · · · · · ·		Acres
	-	ted to the subject we	<u>-</u>		-	
2. If more th interest an		dedicated to the well	, outline each a	nd identify the o	ownership there	of (both as to working
				well, have the	interests of all	owners been consoli-
dated by c	ommunitization, u	nitization, force-pooli	ng. etc:			
Yes	No If an	swer is "yes;" type o	f consolidation			
**	. 44 •• •• •	1 1		** *	3. 2	/TT
		owners and tract desc	riptions which h	ave actually be	en consolidated	. (Use reverse side of
	f necessary.)		<del></del>			
No allowab	le will be assigne	ed to the well until all	interests have	been consolidat	ed (by commun	itization, unitization,
	-				· •	proved by the Commis-
sion.	,		,		,	
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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 #21-A</u> in the SE/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 9-331 C. 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 1200'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.
- 5) 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.
- 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.
- 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 Mr. Billy J. Naylor, 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

erations proposed herein will be performed by EOLIN CIL CO. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date 3/11/78

Name J. P. Crumfr.

Title agent

BOLIN OIL COMPANY

Plat to show the relationship to and distances from new locations to existing wells in Section 4-T25N-R7W Rio Arriba County, New Mexico

New Locations: #21 Candado NE/4

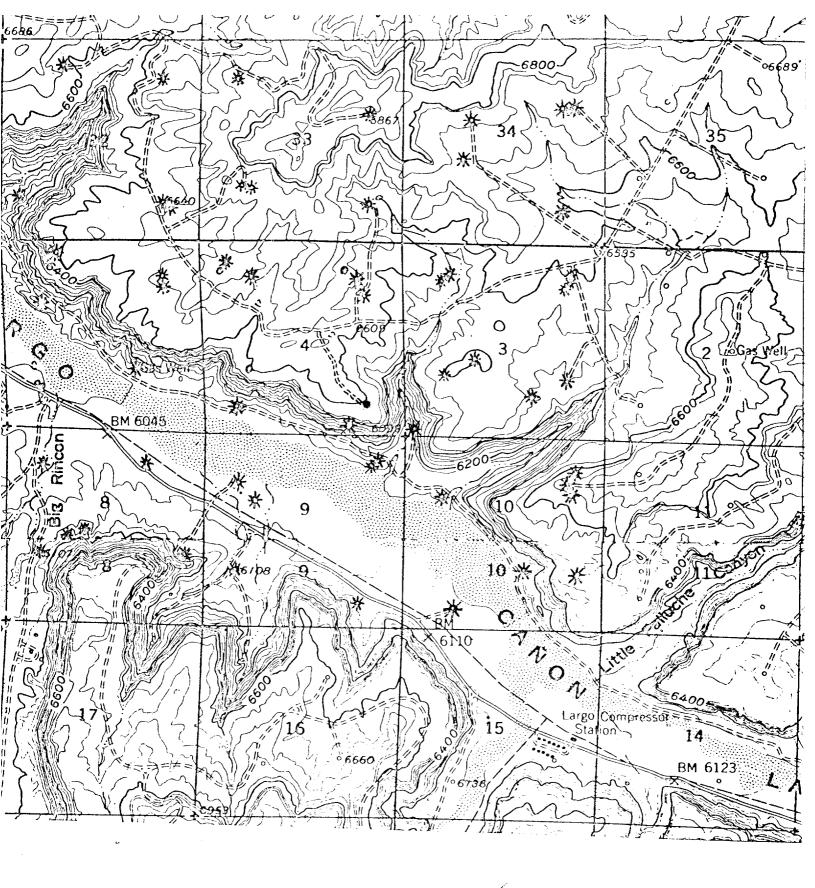
#21A Candado SE/4

#22 Candado SW/4

#22A Candado NW/4

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



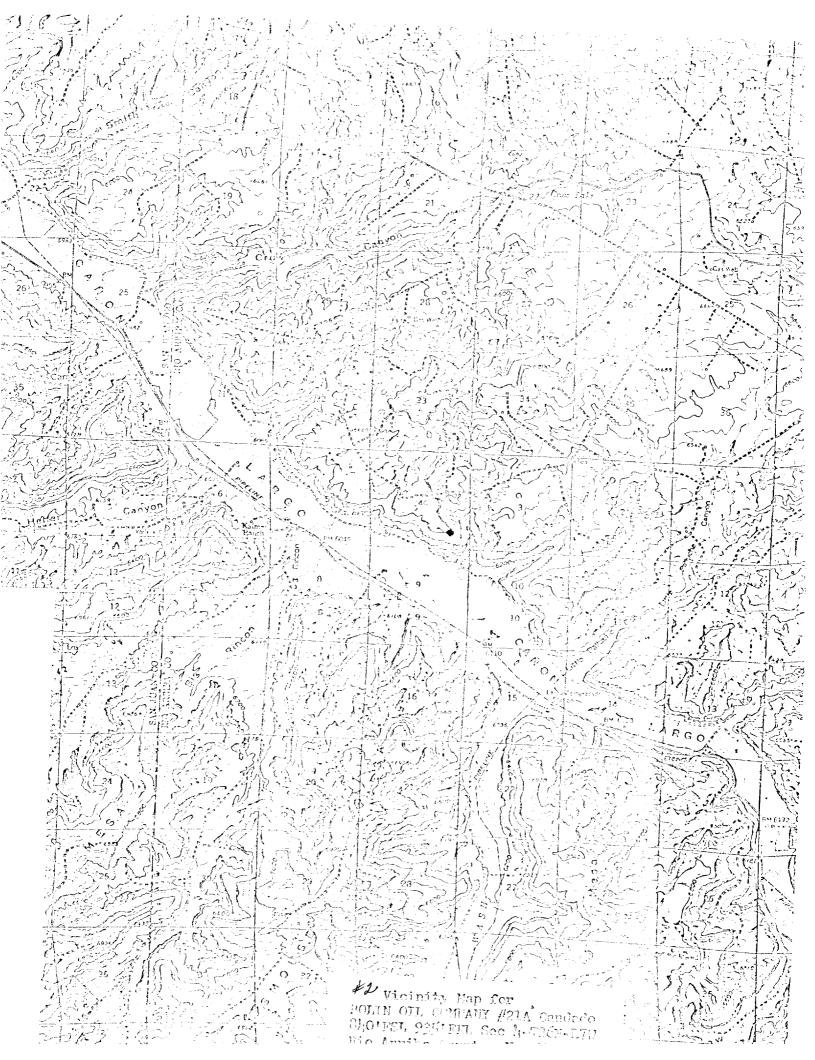
#### KEY

- Locatable reference point
- Planned access road
- ==== Existing road
  - Proposed location
- O 🔆 Producing wells as far as known
  - Route of proposed flow line to existing gathering line (EPNG)

#### MAP I

CANDADO #2/A

BOLIN OIL COMPANY



# Archaeological Clearance Survey of Five Proposed Well Locations, & those Accesses Conducted for Bella Oil Co., Inc.

On May 18, 1977 Billy J. Naylor of New Mexico State University's Cultural Descurce Management Program, San Juan College, conducted an archaeological clearance servey of tive proposed well locations and their access routes at the request of Mr. F. P. Crum, Jr. Also present during the investigations were Mr. Crum, Mr. Bob Moore, BLM and Mr. Don Englishman, U.C.G.S.

All five of the locations are on Bureau of Land Management lands and the survey was conducted under Federal Antiquities Poumit 75-NM-013.

### #21A CANDADO

Proposed well #21A Candado is 840 feet from the south line and 935 feet from the east line of Section 4, Township 26 North, Range 7 West, Rio Arriba County, New Mexico, N.M.P.M. (Figure 1)

The location will be on a terrace overlooking Large Tanyon to the south in rolling broken terrain. The sandy soil contains some sandstone outcroppings and vegetation is composed of pinon, sagebrush, blue grama, Ephedra, prickly pear cactus, and yucca.

Archaeological site FUC-117 was found near the original route which was moved 50 meters south to avoid adverse import on the cultural resources. (Figure 2)

The site is actually a multi component one consisting of an

Anasazi Pueblo I - Pueblo II transistional pit house and a Navajo forked stick hogan, which had been burned, and a possible masonary structure. The two compenents are approximately 80 meters apart and since they are seperated temporally and there was no cultural debris between them, it was felt that the access road would have no adverse effect if placed between the separate components.

Clearance is recommended with the stipulation that construction of the access remain within the flagged right-of-way.

