NMNM-6682 (WC) 3162.3-1 (07337)

DEC 0 9 1993



OIL CON. DIV

DIST. 3

Mr. Rick Wilcox BCO, Incorporated 135 Grant Santa Fe, NM 87501

Dear Mr. Wilcox:

Reference is made to your Application for Permit to Drill (APD) for Well No. 13 Federal B, 1195' FSL & 445' FEL (SE\seta), Sec. 22, T. 23 N., R. 7 W., Sandoval County, New Mexico, Federal Lease No. NMNM-6682. The APD was received on December 6, 1993. The posting date for the start of the 30-day waiting period is September 1, 1992. The following information is required in order to comply with BLM engineering requirements:

NMOCD approval of the unorthodox location.

Your APD is being processed. If you have any questions, please contact Mr. Errol Becher of this office at (505) 599-6358.

Your APD of September 10, 1992 for the same well, has expired as of October 27, 1993 and is hereby returned.

Sincerely,

Jayra Sepret NEPHET MASO™

Ken Townsend
Chief, Branch of Drilling
 and Production

Enclosure (1)

cc:

New Mexico Oil Conservation Division, 1000 Rio Brazos Rd., Aztec, NM 87410

ABANDUM LOCATION

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Fruitland				C-122								1
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Federal B #13

P-22-23N-07W

BCO INC

Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

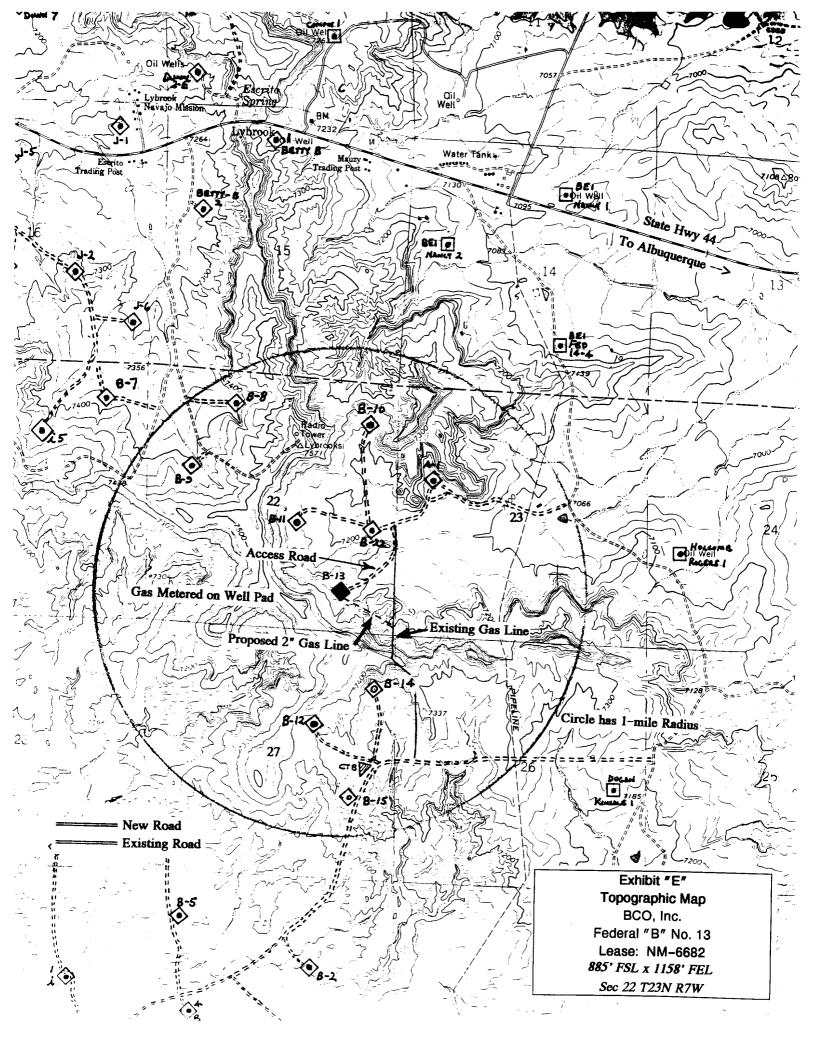
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DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, Ni	M 8/410 All Dist	ances must be	from the outer t	coundaries of the s	ection		
B.C.O.	NC.		FEDE	RAL	`B"		13
Unit Letter Section P 22	Township T.2	3 N.	Range R.7	W.	NMPI	County SA	NDOVAL
Actual Footage Location of We		line and	1158	3		m the EAST	
Ground level Elev. 7231	Producing Formation GALLUP	1130 830	Pool	K GALLUP			Dedicated Acreage: AO Acres
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			!	•			certify that the information in true and complete to the ledge and belief.
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			<u> </u>			Printed Name	0
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			ļ			Company	M ENGINEER
						BCO,	/wc.
			1				PTEMBER 1992
	SEC.	22					OR CERTIFICATION
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STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

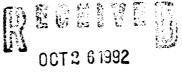
ANITA LOCKWOOD CABINET SECRETARY

October 22, 1992

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

BCO, Inc. 135 Grant Avenue Santa Fe, NM 87501

Attention: Neel L. Duncan



CIL CON. DIV

Administrative Order NSL-3183

Dear Mr. Duncan:

Reference is made to your application dated September 16, 1992 for a non-standard oil well location for Federal "B" Well No. 13 located 885 feet from the South line and 1158 feet from the East line (Unit P) of Section 22, Township 23 North, Range 7 West, NMPM, Undesignated Lybrook Gallup Oil Pool, Sandoval County, New Mexico. The SE/4 SE/4 of said Section 22 shall be dedicated to the well forming a standard 40-acre oil spacing and proration unit for said pool.

By the authority granted me under the provisions of General Rule 104F.(I) the above-described unorthodox oil well location is hereby approved.

Sincerely,

William J. LeMay

Director

cc:

WJL/MES/amg

Oil Conservation Division - Aztec

US Bureau of Land Management - Farmington



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

REY CAPRUTHERS
GOVERNOR

1(XX) HIO DHAZOS NOAD AZTEC, NEW MEXICO 87410 (505) 334-8178

Date: 4-12-92 atta:0	Mork
Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088	
Re: Proposed MC Proposed DMC Proposed MSL Proposed SWD Proposed WFX Proposed PMX	
Gentlemen:	
I have examined the application dated 9-17-95	
for the B.CO, INC. Federal B.F./ Operator Lease & Well No.	<u> </u>
M-22-23N-7W and my recommendations are as followit, S-T-R	
stagrare.	
	
Yours truly,	ga jega semesire mile 440

BCO, Inc.

AREA CODE 505 983-1228 OIL WELL OPERATOR 135 GRANT SANTA FE, N. M. 87501

16 September 1992

Mr. William J. LeMay
Director
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SEP1 7 1992 OIL CON. DIV

Re: Non-Standard Location Application

Federal "B" No. 13

885' FSL x 1158' FEL (UL "P") Sec 22 T23N R7W Sandoval County, New Mexico

Lybrook Gallup Pool

Dear Mr. LeMay:

BCO, Inc. requests OCD administrative approval to drill the above referenced Gallup oil well in an unorthodox location. A mesa with steep slopes, a narrow drainage canyon, and the presence of ponderosa pine trees prevent us from selecting a legal location in the proration unit.

This application includes a copy of the APD which has been filed with the BLM. Also included are the exhibits required per the guidelines in OCD Memorandum 1-90 dated 21 March 1990. For your convenience, a list which describes the nature and purpose of each exhibit follows this letter.

Archaeological clearance has been recommended by the Division of Conservation Archaeology. Bill Leiss of the BLM made a field inspection of the site on September 8th, 1992 and has indicated approval.

Directional drilling is not feasible to reach a legal bottom-hole location. Straight hole drilling economics are marginally profitable (rate of return less than 15%) and an additional \$48,083 in horizontal displacement costs would kill the project by bringing the rate of return down below the cost of money. Additionally, the well will have to be produced on beam lift and as you are aware this creates serious operational problems in deviated holes.

Offset operators have been notified of our application. An affadavit of service, list of operators, and a sample letter are provided in Exhibit H. Please note that the proposed location is unorthodox only with respect to our own acreage and the correlative rights of the offset operators are protected.

Respectfully,

Neel L. Duncan

Petroleum Engineer & Production Manager

c: Frank T. Chavez - Aztec

LIST OF EXHIBITS Non-Standard Location Application Federal "B" No. 13

Exhibit	Description & Purpose
A	Copy of Application for Permit to Drill
В	OCD Form C-102. Shows location & dedicated acreage.
С	Ownership Plat showing proposed wellsite, offset operators, and offset wells.
D	Listing of working interest owners for offset wells.
E	Topographic map showing proposed location, orthodox windows, and terrain features.
F	Enlarged topographic map showing details of the mesa slope, canyon, and ponderosa pine trees.
G	Copy of cover letter for archaeological report recommending clearance for the proposed wellsite.
Н	Affidavit that notice has been sent & list of operators notified. Sample letter also attached.

Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TETTICATE®

(Other instru i on reverse short)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

	RUPEAU OF	I AND MANA	CEMEN	· · · · · · · · · · · · · · · · · ·			5. LEASE DESIGNATION AND SERIAL NO.		
BUREAU OF LAND MANAGEMENT						NM-6682 -			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTER OR TRIBE NAME			
1a. TYPE OF WORK							-		
b. TYPE OF WELL	RILL X	DEEPEN		PL	.UG BA	CK 🗌	7. UNIT AGREEMENT NAME		
WELL X	GAB OTHER			GLE X	MULTI	PLE [8		
2. NAME OF OPERATOR	WALL COTALL		ZON		ZONE		S. FARM OR LEASE NAME		
BCO, Inc.	•						Federal "B" 9. WELL NO.		
3. ADDRESS OF OPERATOR				•			13		
135 Grant Av	venue, Santa Fe,	New Mexico	87.	501 ·			10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (At surface	Report location clearly and	in accordance wi	ith any St	te requirem	ents.*)		Lybrook Gallup		
885' FSL x 1	158° FFT.						11. SEC., T., R., M., OR BLK.		
At proposed prod. 20	ne						AND SURVEY OR AREA		
885' FSL x 1	158' FEL						Sec 22 T23N R7W		
	AND DIRECTION FROM NEAR		ST OFFICE*				12. COUNTY OR PARISH 13. STATE		
1.5 miles Sc 15. DISTANCE FROM PROI	uth of Lybrook	•					Sandoval NM		
LOCATION TO NEARE! PROPERTY OR LEABE	ır		16. NO.	OF ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL		
(Also to nearest dr 18. DISTANCE FROM PRO	g. unit line, if any)			2080	•		40 .		
TO NEAREST WELL.	DRILLING, COMPLETED		19. PROF	OSED DEPTH		20. ROTA	RY OR CABLE TOOLS		
OR APPLIED FOR, ON TO			1	5800	<u> </u>	Rotary Tools			
GL: 7231'		70/01					22. APPROX. DATE WORK WILL START		
23.	KB:	7243 ·					01 January 1993 .		
	P.	ROPOSED CASII	NG AND	CEMENTING	G PROGRA	M			
SIZE OF ROLE	SIZE OF CASING	WEIGHT PER P	тоот	SETTING I	DEPTH	1	QUANTITY OF CEMENT		
<u>12.250</u> ·	8.625"	24#		360'	•		275 Sacks		
7.875	4.500	11.6#		5800'			689 Sacks		
A - Location B - Ten Poin C - Blowout D - Multi-Po E - Topograp	Plat (OCD form t Compliance Plat Preventer Diagram int Requirements by Map Showing Research Program: If the Program: If the Program of the Pr	ned and standard ned an	Exhib	will be ed as ne	F - Dr G - Co H - Lo I - Fa J - R/	illing mpletic cation cilitie W Land	Gallup Formation. nted. Potentially Rig Layout on Rig Layout Profile Plat es Layout Use Plat		
zone. If preposal is to preventer program, if an 24.		y, give pertinent	data on s	roleum		d measured	ctive sone and proposed new productive and true vertical depths. Give blowout DATE /O SEPTEMBER 1992		
(This space for Fede	ral or State office use)			2	i i jage se se e se	until			
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APPROVED BY			r. e		- ^ ^	4/	• •		
CONDITIONS OF APPROV	AL, IF ANY:			_		_	4 4 -		
*** Note: A	Form 2800-14 sig	oned in blo	nk one		OPY	' OI	т "A" = A.P. D		

*See Instructions On Re

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and United States any folion distribution of the distr

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section Wei No. **FEDERAL** B.C.O. INC. -13 Range County Township Unit Letter Section .23 N. SANDOVA <u>NMPM</u> Actual Footage Location of Well: feet from the EAST 885 SOUTH line and Dedicated Acreage: Ground level Elev. Producing Formation 7231 LYBROOK GALLUP 40 GALLUP 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 interest 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 neccessary. 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 interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Printed Name NEEL L. DUNGAN Position PETROLEUM ENGINEER Company BLO Date 09 SEPTEMBER SURVEYOR CERTIFICATION SEC. 22 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 5213,34 supervison, and that the same is true and correct to the best of my knowledge and belief. Signature & Seal of 1158 5212.02' N 87-15 W 1500 1000 1980 2310 2640 2000 660 1320 1650

EXHIBIT "B"

TEN POINT COMPLIANCE PROGRAM OF NTL-6 APPROVAL OF OPERATIONS

OPERATOR:

BCO, Inc.

WELL NAME:

Federal "B" No. 13

LOCATION:

885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

1. The Geological Surface Formation is NACIEMENTO.

2. The Estimated Tops of Important Geologic Markers (feet, TVD):

Ojo Alamo	1418	Cliffhouse	3551
Kirtland	1698	Menefee	3572
Fruitland	1853	Point Lookout	4383
Pictured Cliffs	2078	Gallup	5260
Chacra	2460	TD	5800

3. Estimated Depths of Anticipated Water, Oil, Gas, or Minerals:

Substance	Formation	Anticipated Depth (feet, TVD)
Gas and Wtr	Pictured Cliffs	2078
Gas and Wtr	Chacra	2460
Gas	Menefee	<i>3572</i>
Gas and Wtr	Point Lookout	4383
Gas and Oil	Gallup	<i>5260</i>

4. The proposed casing program will be as follows:

Depth (feet)	Hole Size (inches)	Casing O.D. (inches)	Weight (lbm/ft)	Grade	Type	New/Used
0 - 360	12.250	8.625	24.00	J-55	ST&C	New
0 - 200	7.875	4.500	11.60	N-80	LT&C	New
200 - T.D	. 7.875	4.500	11.60	J-55	LT&C	New

The proposed cement program will be as follows:

Surface:

275 sacks Class "B" with 0.25 lb/sx Flocele and 3% calcium

chloride.

Production: Single Stage Cementing.

Lead: 50 bbl chemical flush followed by 531 sx 65/35 poz with 12% gel, 6 lb/sx gilsonite, 0.6% Halad-322, and 0.25 lb/sx flocele. Cement will be mixed at 11.3 lb/gal for zero free water and will yield 2.64 ft³/sx.

Tail: 158 sx Class "G" with 8 lb/sx salt, 0.5 lb/sx flocele and 6.25 lb/sx gilsonite. Cement will be mixed at 15.8 lb/gal to yield 1.15 ft^3/sx .

TEN POINT COMPLIANCE PROGRAM OF NTL-6 APPROVAL OF OPERATIONS

OPERATOR: BCO, Inc.

WELL NAME:

Federal "B" No. 13

LOCATION: 885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

Note: Cement volumes will be adjusted after logging to ensure that all annular space behind 4-1/2" casing is full of cement.

5. Operator's Minimum Specifications for Pressure Control.

Exhibit "C" is a schematic of the blowout preventer equipment. A "2M" BOP system will be used. The BOP's will be hydraulically tested prior to drilling out from under surface and operational checks will be made daily thereafter and recorded in the drilling tour report. The following specifications will apply:

- a. The "2M" BOP system will consist of two rams, one pipe and one blind ram. All Connections subject to well pressure will be flanged. All lines and associated valves connecting to the BOP stack will be two inch (2"). (See attached BOP diagram.)
- b. A two inch kill line will be used.
- c. Two 2" kill line valves will be used. One of the valves will be a check valve.
- d. The choke manifold will contain two variable chokes and the manifold will be constructed of two inch (2") pipe. All connections will be flanged. A pressure gauge will be installed on the manifold.
- e. A safety valve and subs to fit all drill strings will be used.
- f. A two inch fill-up line above the uppermost preventer will be used.

6. Type and Characteristics of the Proposed Circulating Muds.

Mud system will be gel-chemical with adequate stocks of sorptive agents on location to handle possible spills of fuel and oil at the surface.

Heavier muds will be made on location and added if pressure requires.

Interval (feet, MD)	Mud Weight (lbm/gal)	Viscosity (Marsh sec)	Fluid Loss (cc/30 min)	рĦ	Additives
0 - 370	9.0	50		9.0	None.
370 - T.D.	9.0	38 - 40	6.0	9.0	Chemicala

7. Auxiliary equipment to be used is as follows:

a. Float above bit.

- b. Monitoring of mud system will be visual.
- c. A sub with a full opening valve will be on the floor when the kelly is not in use.

8. Testing, logging, and coring will be as follows:

- a. Cores None will be cut.
- b. Drill Stem Tests None anticipated.
- c. Logging Formation Density and Compensated Neutron over Gallup formation and selected segments between Gallup and surface. Dual Induction, Gamma Ray, and Calliper from TD to surface.

9. Anticipated Abnormal Pressures and Temperatures

No abnormal pressures, temperatures, or presence of hydrogen sulfide gas is anticipated during the course of drilling to TD. The maximum bottom hole pressure to be expected is 1800 psig.

10. Anticipated Starting Date and Duration of Operations

The anticipated starting date is set for *January 1st*, 1993, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 15 days.

Note: NTL FRA 90-1 will be complied with regarding cementing precautions for protection of fresh water sands, specifically the Ojo Alamo. The hole size is equal to or greater than 1.5 inches larger diameter than the casing outside diameter across usable water zones. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement. An adequate number of casing centralizers will be run through usable water zones to ensure that casing is properly centered. The number of centralizers will be determined by API specification 11-D. Centralizers which impart a swirling action (Halliburton's Fluidmaster type) will be used just below and into the base of the lowest usable water zone. These devices will assist mud displacement, increase cement bonding potential and create an effective hydraulic seal. A chronological log will be kept which records pump rate, pump pressure, slurry density, and slurry volume for the cement job. The log will be sent to the BLM Farmington Resource Area after completion of the job.

Addendum to Ten Point Compliance Plan:

If productive, natural gas pipeline will be run from gas meter on well pad to the main BCO gathering line and tie in approximately 500' from south line and 25' from east line of section 22. Description as follows:

General: Surface gas-only line.

Working Pres: 6160 psi
Operating Pres: 1000 psi
Test Pres: 1000 psi

Length: 1200' (approximate)
Diameter: 2" I.D.

Type: 4.6 lb/ft oilfield tubing.

Wall: 0.380 inch

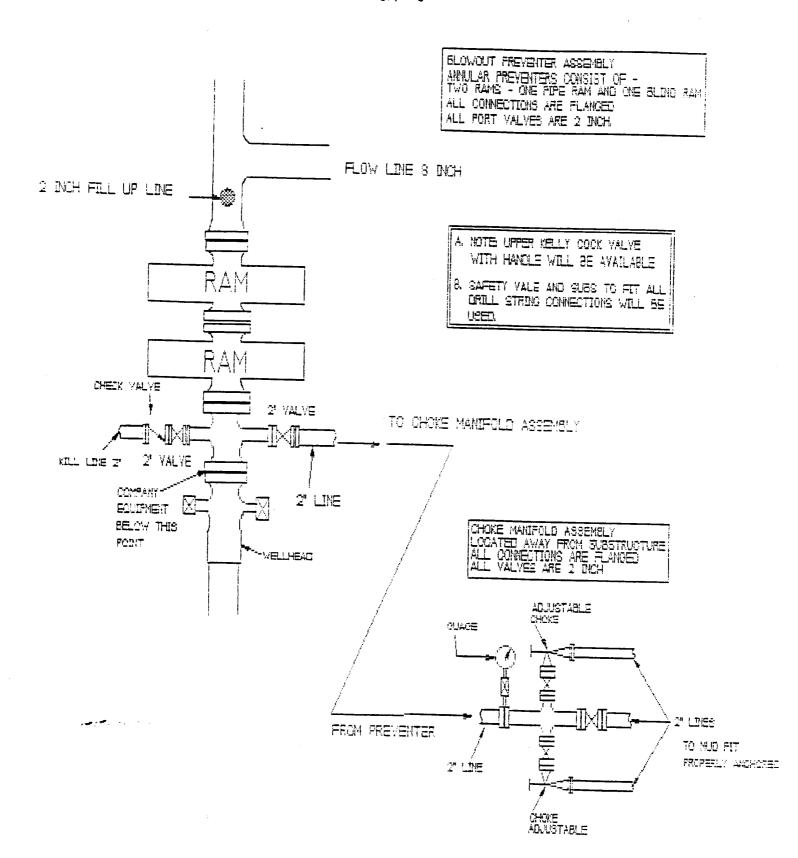


EXHIBIT "D"

Attachment to Form 3160-3

MULTI-POINT REQUIREMENTS TO ACCOMPANY APPLICATION FOR PERMIT TO DRILL

OPERATOR:

BCO, Inc.

WELL NAME:

Federal "B" No. 13

LOCATION:

885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

1. Existing Roads

- a. Plan to improve or maintain existing roads as required. Application is being made for right-of-way to an existing state or county road. Land use plat for R/W is included as Exhibit "J". Plan to utilize R/W NMNM 86684 from State Highway 44 to starting point of new access road and request amendment of NMNM 86684 to include NE/4 and SE/4 of SE/4 Sec 22 T23N R7W.
- b. Directions: From Farmington, turn right (south) off of State Highway 44 on west side of Lybrook Elementary School. Proceed 1.5 miles and turn right (west). Proceed 0.7 miles and turn left (south) on new access road and follow to location.
- c. All existing roads within a one mile radius are shown in Exhibit "E".
- d. This is a development well.

2. Planned Access Roads

- a. The proposed access road to the location is 2000' long and is shown on Exhibit "E". BCO, Inc. requests that NMNM 86684 be amended to include new access road in NE/4 and SE/4 of SE/4 Sec 22 T23N R7W. A 2800-14 signed in blank is attached to the back of this APD.
- b. The grade will be 10% or less, or consistent with local terrain.
- c. Turnouts installed as required by BLM.
- d. Any necessary water bars will be installed.
- e. Culverts will be installed as necessary. No major cuts and fills are planned.
- f. Only native materials will be used.
- g. No cattleguards will be required.
- h. The new access road will be crowned and ditched.

OPERATOR:

BCO, Inc.

WELL NAME:

Federal "B" No. 13

LOCATION:

885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

3. Location of Existing Wells within a One Mile Radius (Refer to Exhibit "E")

- a. Water wells none.
- b. Abandonded wells None.
- c. Temporarily Abandonded (TA) wells none.
- d. Disposal wells none.
- e. Drilling wells none.
- f. Producing wells BCO, Inc 7 wells
- g. Shut-in wells none.
- h. Injection wells none.
- i. Monitoring observation wells none.

4. Location of Existing and/or Proposed Facilities

- a. There are four production facilities (batteries) owned and controlled by the Operator within a mile radius of the proposed well. One additional facility is applied for in a separate APD for a well within a one mile radius.
- b. New facilities contemplated in the event of production are shown approximately as Exhibit "I".
 - 1. A tank battery will be required.
 - Flowline on the well pad from the wellhead to the separator and from the separator to the tank(s) will be on the surface.
 - 3. Only native materials will be used except for gravel.
 - 4. An earthen berm will be built around tank battery. Tank and wellhead will be fenced to keep domestic animals and wildlife out.
 - 5. The reserve pit will be fenced and allowed to dry. Rehabilition, whether the well is productive or dry will be made on all unused areas in accordance with BLM stipulations.

OPERATOR: BCO, Inc.

WELL NAME: Federal "B" No. 13

LOCATION: 885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

6. A 1200' (approximate) 2" diameter surface natural gas pipeline will be constructed from the on-site, on lease meter to connect with the Operator's low pressure gathering line at 500' from south line and 25 feet from east line of section 22 T23N R7W. Entire gas line will be on Federal land in SE/4 SE/4 Sec 22 T23N R7W. Complete description of line is found in addendum to the 10-point compliance plan.

The pipeline will remain on lease.

5. Location and Type of Water Supply

- a. Water will be provided by the Drilling Contractor, Walters Drilling, Inc. Contractor's source of water will be the Chapman water hole.
- b. Water will be trucked to the location over the roads.
- c. No water well will be drilled.

6. Source of Construction Materials

- a. Only native soils will be utilized.
- b. No construction materials will be taken off Federal or Indian lands.
- c. Surface and subsoil materials in the immediate area will be utilized. Any gravel will be purchased from a commercial source.
- d. All major access roads are shown on Exhibit "E".

7. Methods of Handling Waste Materials

- a. Drill cuttings are to be contained and buried in the reserve pit.
- b. Drilling fluids are to be contained in the reserve pit.
- c. The produced fluids will be stored in a production tank. Any spills of oil, gas, or water, or other production fluids will be cleaned up and removed.
- d. Chemical facilities will be provided for human waste.

OPERATOR: BCO, Inc.

WELL NAME: Federal "B" No. 13

LOCATION: 885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

e. Garbage and non-flammable waste are to be contained in trash containers. Trash will be removed periodically and the remains removed when the well is completed. The reserve pit will be fenced on three sides during drilling operations and the fourth side will be fenced when the rig is moved off location.

- f. Reserve and mud pits will be allowed to dry after drilling and completion operations and then adequately filled and leveled.
- 8. Ancillary Facilities: Non Required.

9. Well Site Layout.

- a. Wellsite layout and Profile are shown in Exhibit "H".
- b. Drilling Rig layout is shown in Exhibit "F".
- c. Completion Rig layout is shown in Exhibit "G".
- d. Final producing well layout is shown in Exhibit "I"

10. Plans for Restoration of Surface.

- a. Restoration of the well site and access road will begin as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- b. Should the well be abandonded, the drilling site will be reshaped as closely to the original countour as possible. The access road will be plowed and shaped. Both road and location will have topsoil replaced and and will be reseeded when germination can occur. The portion of the location needed for daily operations and access road will be kept in good repair and clean.
- c. In either case, cleanup of the well site will include burning or removal of all waste, revoval of accumulated oil on pits, fencing of pits until filled, and filling of the pits.

11. Other Information

a. General Topography is shown on Exhibit "E"

OPERATOR:

BCO, Inc.

WELL NAME:

Federal "B" No. 13

LOCATION:

885' FSL x 1158' FEL Sec 22 T23N R7W

STATE, COUNTY: Sandoval County, New Mexico

- There are no known archaeological or cultural sites near the proposed roadway or location.
- c. Animal life: Domestic livestock, mule deer, and native rodents and scavengers.
- d. Dwellings Closest occupied dwelling is 1 mile.
- e. Surface Owner Federal Lands under jurisdiction of the Bureau of Land Management.
- f. Restrictions: None.
- g. Drilling is planned for on or about January 1st, 1993 and operations should be completed within 15 days of start-up.

12. Leesee's or Operator's Representative

Neel L. Duncan, Petroleum Engineer 135 Grant Ave.

Santa Fe, New Mexico 87501

Telephone: (505) 983-1228

13. CERTIFICATION

I hereby certify that I or someone under my direct supervision have inspected the proposed drill site and access road; that I am familiar with the conditions that 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 the Operator, his contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: 09 September 1992

Neel L. Duncan

Petroleum Engineer & Production Manager

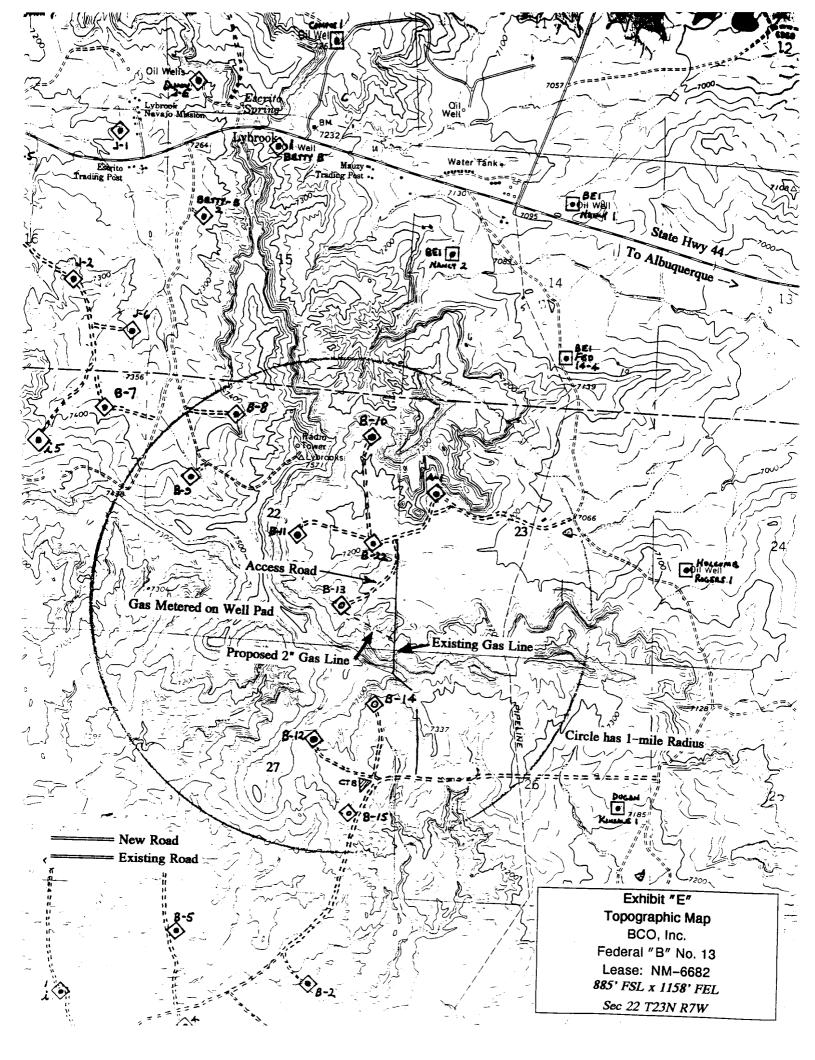
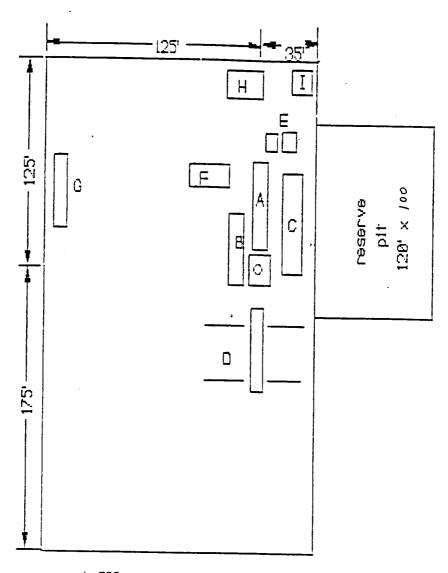


EXHIBIT F

ORILLING RIG LAYOUT

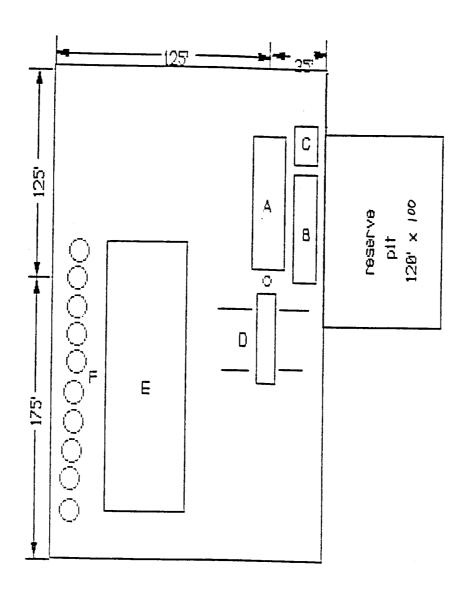
BCO, Inc.



- A RIG
- B DOG HOUSE AND WATER
- C MUD PIT
- D PIPE RACKS
- E MUD PUMPS
- F LIGHT PLANT
- G TRAILER HOUSE
- H TRASH BIN
- I TOILET

EXHIBIT G COMPLETION RIG LAYOUT

BCO, Inc.



- A COMPLETION RIG
- B CIRCULATING PIT
- C PUMP
- D PIPE RACKS
- E FRAC EQUIPMENT AREA
- F FRAC TANKS

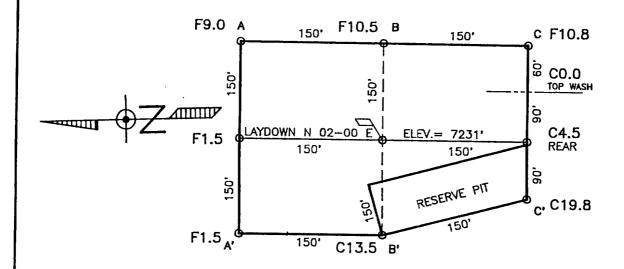
COMPANY: _____ B.C.O. INC.

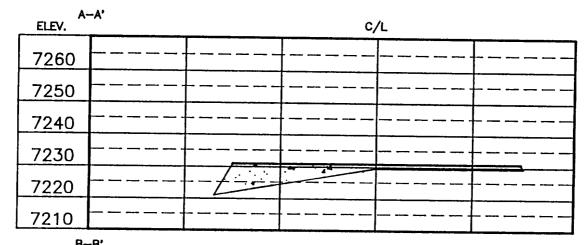
LEASE: FEDERAL B-13

FOOTAGE: 885 FSL, 1158 FEL

SEC.: 22 TWN: T.23 N. RNG: R.7 W. NMPM

7231' **ELEVATION:** __





ELEV.	-B' C/	L
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7250		
7240		
7230		
7220		X///
7210		

ELEV.	C/L
7260	
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7230	///////
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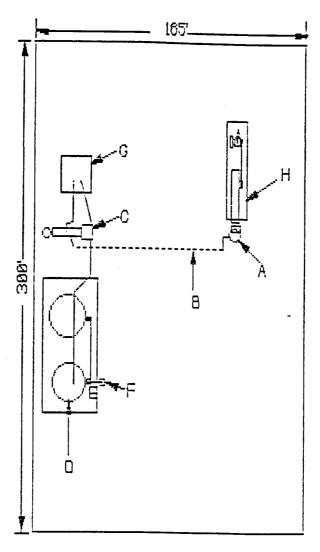
Daggett Surveying, Inc.

3639 E. 30th. Street Suite No. 78 Ph. (506) 326-1772

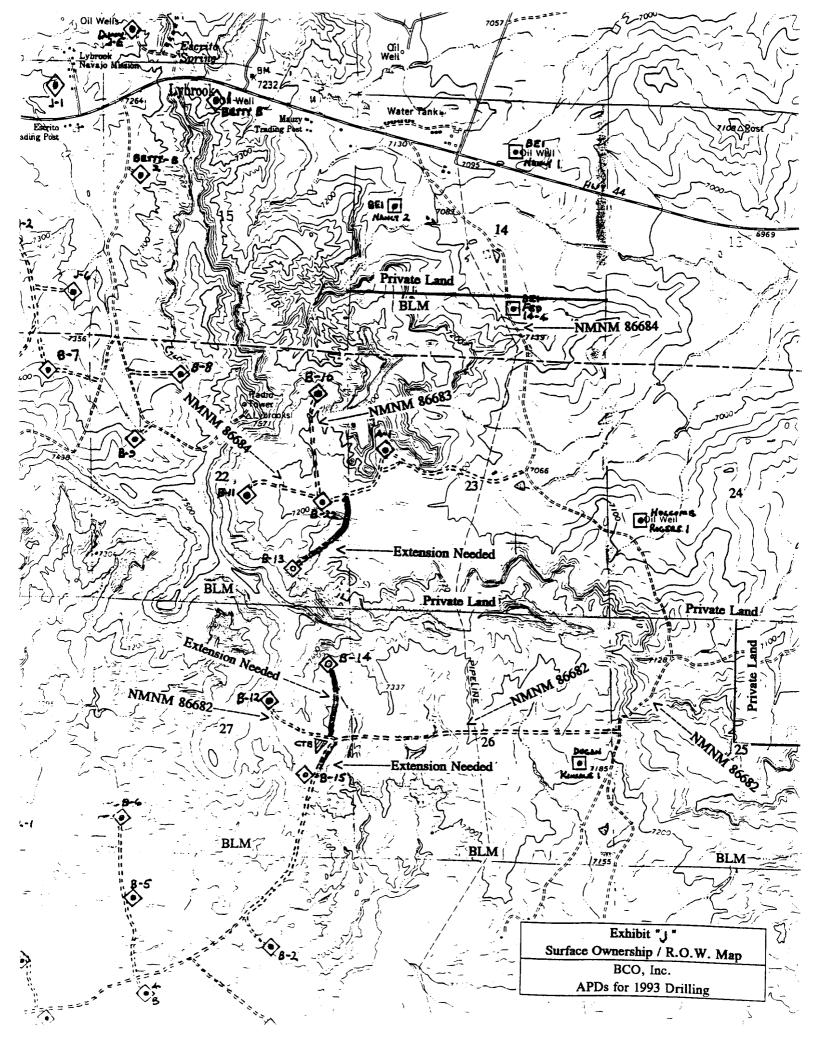
Farmington, New Mexico 87401

EXHIBIT "I" PRODUCTION FACILITIES LAYOUT

BCO, Inc.



- A WELLHEAD
- B FLOWLINE (BURIED)
- C SEFERATOR
- D PRODUCTION TANK(S)
- E LOAD LINE(S)
- F LOAD VALVES (SEALABLE)
- G EVAPORATIVE PIT
- H PUMP JACK (if necessary)



Form 2800-14 (August 1985)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RIGHT-OF-WAY	GRANT/TEMPORARY USE	DEDMIT
41 1171	ALIVILLI FINE OUTUBE	PERIMIL

Issuing Office		
Serial Number	_	

1. A (right-of-way) (permit) is hereby granted pursuant to:	
a. Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761);	
b. Section 28 of the Mineral Leasing Act of 1920, as amended (30 U.S.C. 185);	
c. Other (describe)	
2. Nature of Interest:	
a. By this instrument, the holder	
	receives a
on public lands (or Federal land for MLA Rights-of-Way) described as follows:	
,, ===================================	
•	
b. The right-of-way or permit area granted herein is feet wide, feet long and contains acres.	
best If a vive of permit area granted herein is feet wide, feet long and contains acres	More or
less. If a site type facility, the facility contains acres.	more or
a This issue.	
c. This instrument shall terminate on years from its effective date unless, prior thereto, it is reliable abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any or the state of the conditions of this instrument or of any or the state of the conditions of this instrument or of any or the state of the conditions of this instrument or of the conditions of the conditions of this instrument or of the conditions of	onish
abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.	quisned,
d. This instrument \square may \square may not be renewed. If renewed, the sinks of successions.	
d. This instrument \square may \square may not be renewed. If renewed, the right-of-way or permit shall be subject to the regulations existing at the time of rene any other terms and conditions that the authorized officer deems necessary to protect the public interest.	wal and

e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandoment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

Kental:	·¢

(Effective Date of Grant)	(Date)
(200.2)	
(T itl e)	(atiT)
•	
(Tignature of Authorized Officer)	(Signature of Holder)
	26/20/60
dies regin-of-way grant of permit.	IO CUOMBUO CUE
ii in interest in intere	N WITNESS WHEREOF, The undersigned agrees to the terms and conditions of
	,
so as to ensure protection of the environment and the health and safety of the public.	The holder shall perform all operations in a good and workmanlike manner
tht-of-way grant or permit shall constitute grounds for suspension or termination thereof.	c. Failure of the holder to comply with applicable law or any provision of this rig
ument as fully and effectively as if they were set forth herein in their entirety.	d. The stipulations, plans, maps, or designs set forth in Exhibit(s) attached hereto, are incorporated into and made a part of this grant instra
of 20 years or more shall, at a minimum, be reviewed by the authorized officer at 10 years. Provided, however, that a right-of-way or permit granted herein may be	c. Each grant issued pursuant to the authority of paragraph (1)(a) for a term the end of the 20th year and at regular intervals thereafter not to exceed reviewed at any time deemed necessary by the authorized officer.
iii i i i i i i i i i i i i i i i i i	 Doon grant termination by the authorized officer, all improvements shall disposed of as provided in paragraph (4)(d) or as directed by the authori
cable regulations contained in Title 43 Code of Federal Regulations parts 2800 and 2880.	a. This grant or permit is issued subject to the holder's compliance with all applied
	4. Terms and Conditions:
Bureau of Land Management fair market value rental as determined by the authorized by the application of sound business management principles, and so far as practicable by the application of sound business management principles, and so far as practicable $\frac{1}{2}$	For and in consideration of the rights granted, the holder agrees to pay the officer unless specifically exempted from such payment by regulation. Pro necessary, to reflect changes in the fair market rental value as determined and feasible, in accordance with comparable commercial practices.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

B.C.O.	INC.		FEDEF	RAL "1	в"	13
Unit Letter Section 2.	2 T.23	3 N.	Range R.7	W.	NMPM SA	ANDOVAL
Actual Footage Location of V	m the SOUTH_	line and	1158	ſe	eet from the EAS	
Ground level Elev. 7231	Producing Formation GALLUP		Pool LYBROOK	GALLUP		Dedicated Acreage: 40 Acres
	age dedicated to the subject well	by colored peac	il or hachure mark	s on the plat below.		Acies
2. If more than one	e lease is dedicated to the well, o	unline each and i	identify the owners	hip thereof (both as t	to working interest and	i royalty).
3. If more than one unitization, force	e lease of different ownership is a e-pooling, etc.?	dedicated to the	well, have the inter	rest of all owners bee	en consolidated by con	nmunitization,
Yes	• • –		of consolidation	olidated. (Use reverse	e side of	· · · · · · · · · · · · · · · · · · ·
this form if necces						ing or otherwise)
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					Position	-
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]				Date	
	SEC.	22	1			EPTEMBER 1992
	SEC.		i -		- SURVE	YOR CERTIFICATION
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-			ļ		belief.	
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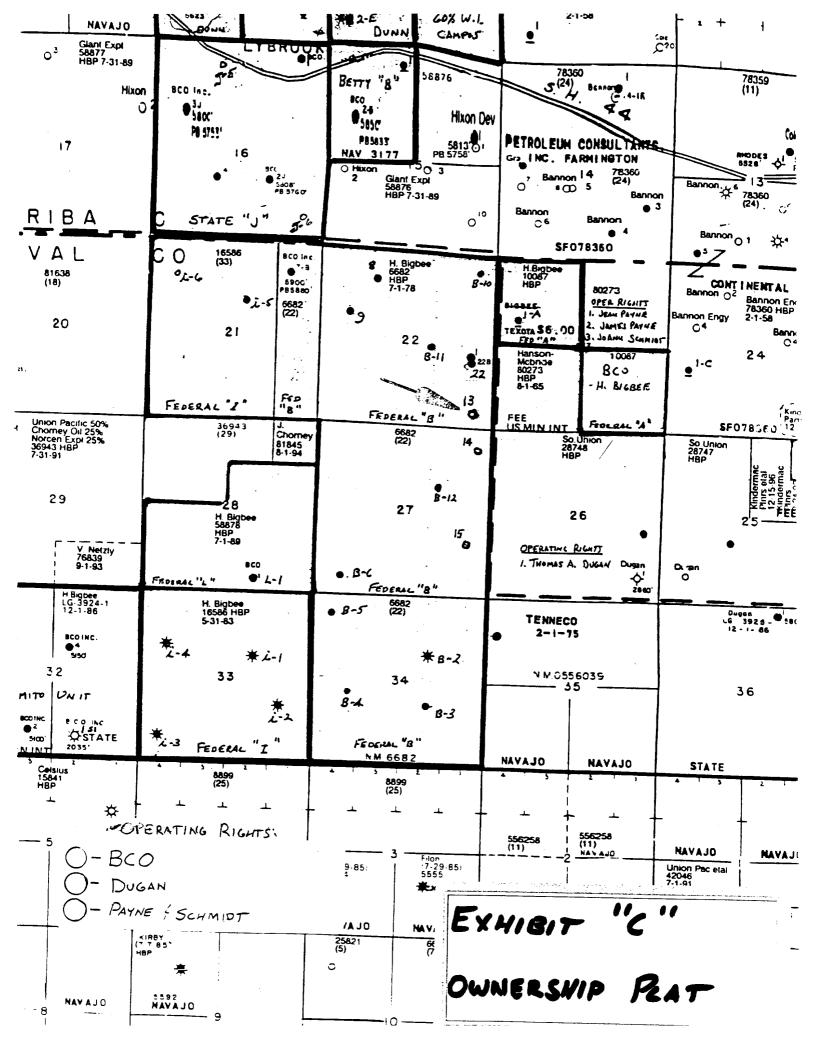


EXHIBIT "D"

NON-STANDARD LOCATION APPLICATION

Offset Well WI Owners to Proposed Federal "B" No. 13

Well: Federal "B" No. 22 Location: NE/4 SE/4 Sec 22 T23N R7W
Operator: BCO, Inc. N.M.P.M. Sandoval Co., NM

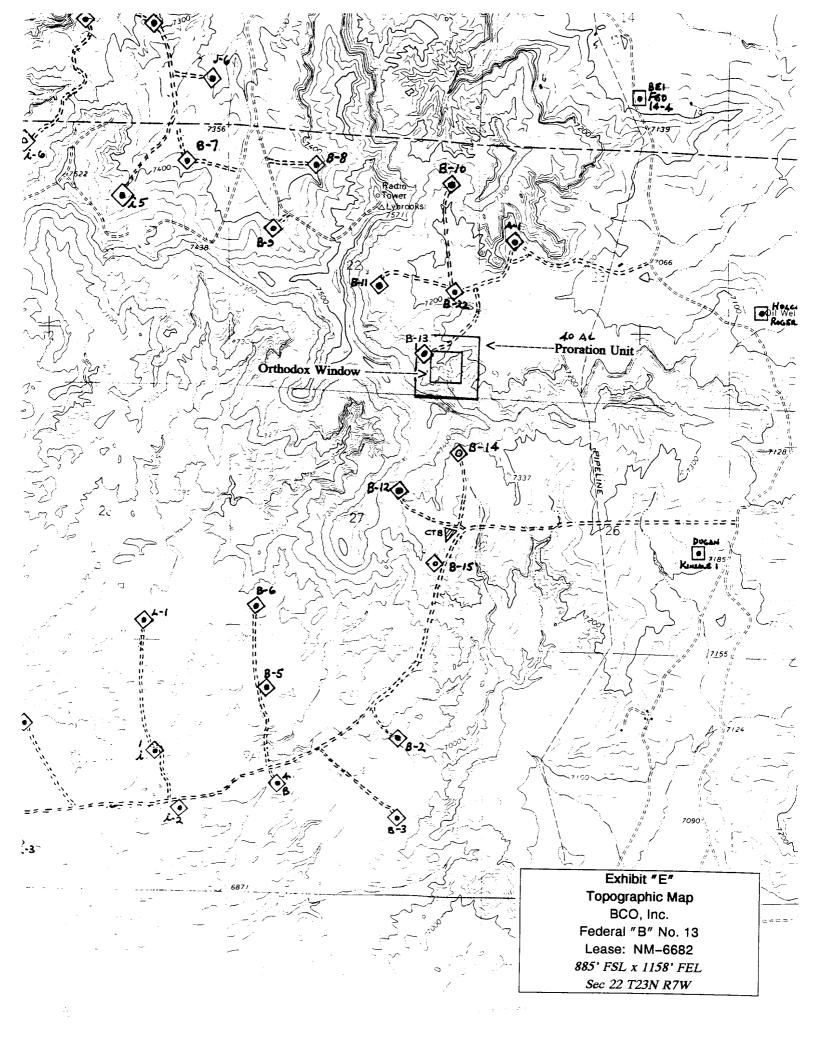
- 1. Harry L. Bigbee
- 2. Harry R. Bigbee
- 3. Nancy P. Bigbee
- 4. Elanor M. Crout

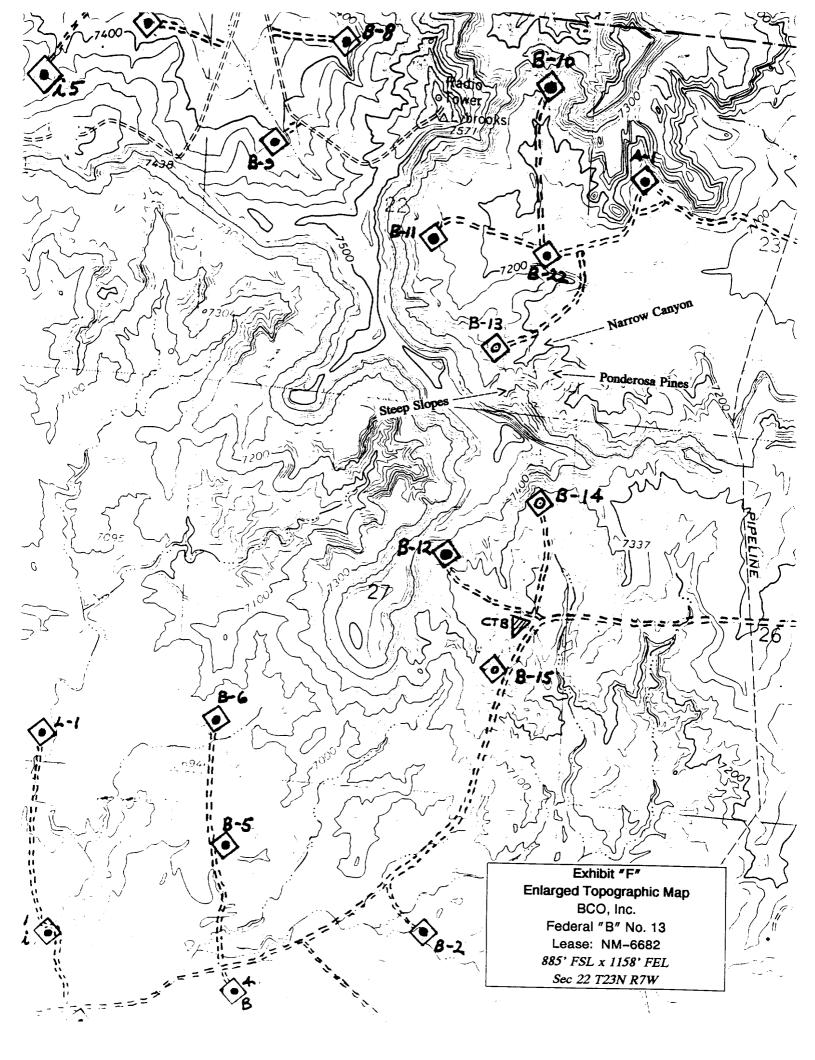
Well: Federal "B" No. 11 Location: NW/4 SE/4 Sec 22 T23N R7W Operator: BCO, Inc. N.M.P.M. Sandoval Co., NM

- 1. Harry L. Bigbee
- 2. Harry R. Bigbee
- 3. Elizabeth B. Keeshan
- 4. Nancy P. Jensen

5. Donnan Stephenson

** No other wells within proximity **





DIVISION OF CONSERVATION ARCHAEOLOGY San Juan County Museum Association

September 14, 1992

Neel L. Duncan BCO, Inc. 135 Grant Avenue Santa Fe, New Mexico 87501

Dear Mr. Duncan:

Our report on the archaeological survey of three proposed well pads (Federal "B" 13, 14 and 15), access roads and pipelines and the proposed Federal "B" 12, 14 and 15 Central Tank Battery is enclosed.

Six isolates were located during the survey. These are discussed in the Cultural Resources section of the report.

We have recommended clearance with the stipulations as discussed in the Recommendations section of the report.

The Bureau of Land Management will review this report and make the final decision on archaeological clearance for your project.

Also enclosed is an invoice for our services. Please contact us if you have any questions concerning the report or invoice.

Sincerely,

Deborah V. Gibson Staff Archaeologist

cc: Resource Area Manager, Bureau of Land Management, Farmington (2)

EXHIBIT "G"
FED. "B" Nº 13

P O Roy 194 a Bloomfald Man Sandy Grand

Exhibit "H" CERTIFICATE OF SERVICE - OFFSET OPERATORS Non-Standard Location Application BCO, Inc.

I certify that notice has been served to the following operators or lesees of BCO Inc.'s application for permit to drill Federal "B" No. 13 in a non-standard location at 885' FSL x 1158' FEL Sec 27 T23N R7W, Lybrook Gallup, Sandoval County, New Mexico.

- Dugan Production Corporation Attn: Thomas A. Dugan P.O. Box 420 Farmington, New Mexico 87499
- Southern Union Exploration, Inc. Attn: Martin Boggs
 324 Hwy 64 NBU 3001
 Farmington, New Mexico 87401
- 3. Harold McBride P.O. Box 1515 Roswell, New Mexico 88201
- Jean Payne
 525 Sierra Drive S.E.
 Albuquerque, New Mexico 87108
- 5. James R. Payne 525 Sierra Drive S.E. Albuquerque, New Mexico 87108
- 6. Jo-Ann Schmidt 6891 Oak Lawn Way Fair Oaks, California 95628

Neel L. Duncan

Date

Petroleum Engineer & Production Manager

BCO, Inc.

AREA CODE 505 983-1228 OIL WELL OPERATOR
135 GRANT
SANTA FE, N. M. 87501

-CERTIFIEDRETURN RECEIPT REQUESTED
P-_757-735-334

15 September 1992

Mr. Thomas A. Dugan
President
Dugan Production Corp.
P.O. Box 420
Farmington, New Mexico 87499-0420

Re: Notice of Non-Standard Location
Federal "B" No. 13
885' FSL x 1158' FEL Sec 22 T23N R7W
Lybrook Gallup Pool
Sandoval County, New Mexico

Dear Tom:

Please be advised that BCO, Inc. has made application to drill Federal "B" No. 13 in the non-standard location referenced above due to topographical constraints and the presence of ponderosa pine trees. The location is unorthodox with respect to our own acreage and your correlative rights should not be adversely affected.

Please call me at (505) 983-1228 if you have any questions. Thank you for your consideration.

Respectfully,

Neel L. Duncan

Petroleum Engineer & Production Manager