Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse)

Form approved.
Budget Bureau No. 42-R1425.

30-039-21048

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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: BCO, Inc.

3. ADDRESS OF OPERATOR: P. O. Box 669 Santa Fe, New Mexico 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1650' FWL 990' FSL Sec 18 T24N R7W NMPM
At proposed prod. zone: Same

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

5. LEASE DESIGNATION AND SERIAL NO.: NM-03595

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Escrito Gallup

8. FARM OR LEASE NAME: Escrito Gallup Unit

9. WELL NO.: 20 (~~Elizabath #6~~)

10. FIELD AND POOL, OR WILDCAT: Escrito Gallup Ext

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 18 T24N R7W NMPM

12. COUNTY OR PARISH: Rio Arriba

13. STATE: New Mexic

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
990'	963	80
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
2840'	6000'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7078' GR

22. APPROX. DATE WORK WILL START*: See Below

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#	120	Circulate
7 7/8	4 1/2 or 5 1/2	10.5 or 15.5	6000	2 Stage See Below

PROPOSED WORK

Drill 12 1/4" hole to approximately 120'. Circulate cement. Drill 7 7/8" hole to bottom of Gallup or approximately 6000'. Set 4 1/2" or 5 1/2" casing, whichever is available with 125 sacks to cover Gallup and recommended Halliburton volume to try and cement from top of Gallup stage to as near the surface as possible. Perforate, acidize and sand water frac Gallup.

DATE OF PROPOSED WORK

Surface casing as soon as approval is obtained.
Hole will be drilled as soon as casing and drilling contractor is obtained
We expect this to be the 1st quarter of 1975.

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: Harry R Byrd TITLE: President DATE: 11-18-74

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

RECEIVED
DEC 1974
OIL CON. COM.
DIST. 3

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	Lease	Well No.
BCO, Inc.	Escrito Gallup	20

Unit Letter	Section	Township	Range	County
N	18	24 North	7 West	Rio Arriba

Actual Footage Location of Well:
990 feet from the South line and 1650 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
7078	Gallup	Escrito Gallup	80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

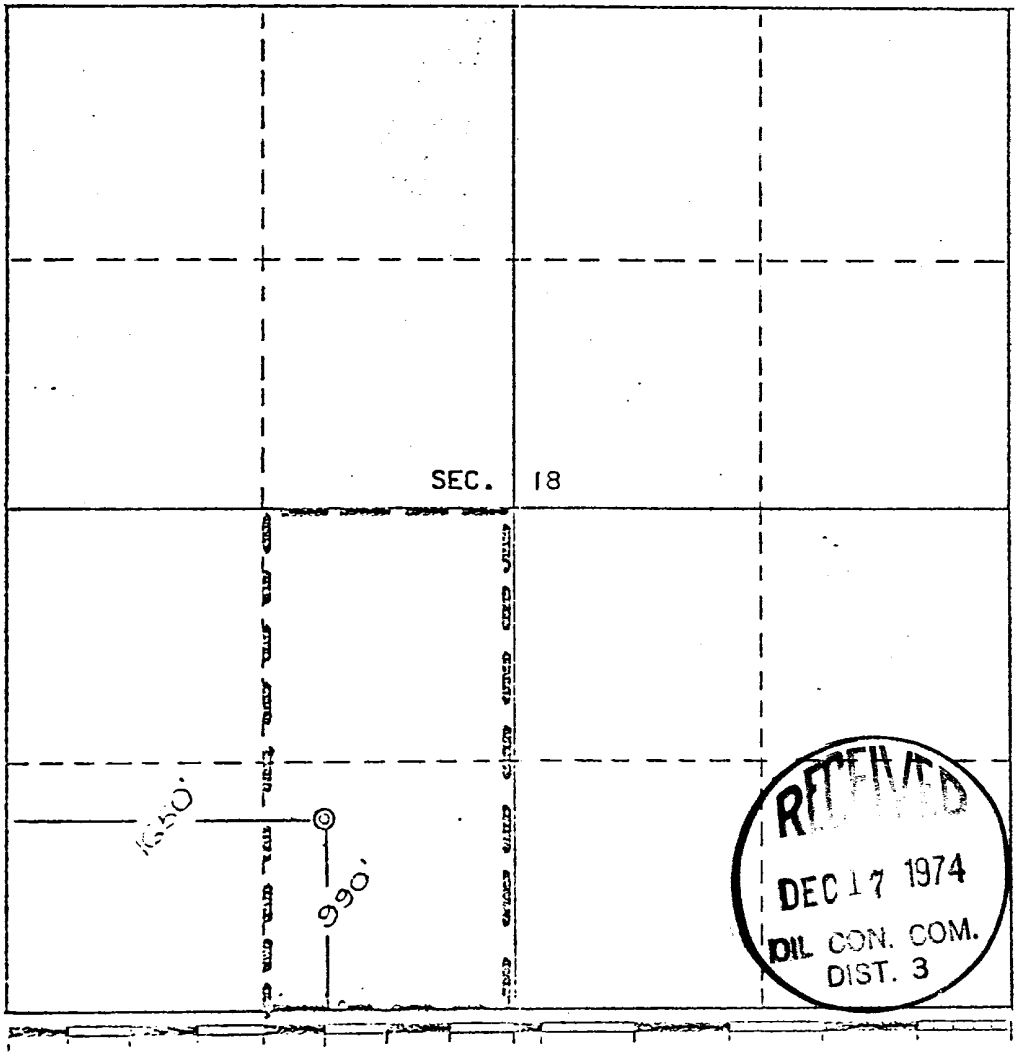
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Unitization

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.



RECEIVED
DEC 17 1974
OIL CON. COM.
DIST. 3

CERTIFICATION

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

Name: Harry R. Bigbee

Position: President

Company: BCO, Inc.

Date: 11-18-74

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO No. 3602 ERNEST V. ECHOHAWK

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: November 9, 1974

Registered Professional Engineer and/or Land Surveyor

E.V. Echohawk

Certificate No. 3602 E.V.Echohawk LS

Escrito Gallup Unit
20 (Elizabeth 6)
Rio Arriba County

12-Point Surface Use Plan

1. Existing roads, including location of exits from the main highway. Please see Exhibits 1 and 2 attached hereto and made a part hereof.

Exhibit 1 is a Xerox copy of the material portion of the Nageezi quadrangle topographic USGS map. We have extended Highway 44 to the southeast, as shown thereon, by a straight line. We have shown a road that cuts off in a northerly direction from the highway at a point approximately 1/2 mile east of the Escrito Trading Post until the road as shown on Exhibit 1 continues northerly through Section 9 and 4 and continues through Section 29, 20 and 17 to where there is shown the location of the BCO camp. The portion of this road that is shown by rough drawing in Section 9 extending to Section 4 from the highway is more accurately shown on Exhibit 2, being a Xerox copy of a material part of the USGS Lybrook quadrangle topographic map, where this road is shown to leave the highway and extend to Section 4. From the BCO camp, Exhibit 1 shows an existing road extending in a westerly direction and across the southern portions of Sections 17 and 18. Exhibit 1 and 3 show this proposed location in Section 18 designated on said map which lies a distance of approximately 100 yards north of said road.

2. Planned Access Roads

Exhibit 1 reflects a planned access road to this location shown on the map which is a very short distance from an existing road. The proposed road would be a minimum width to allow two vehicles to pass.

3. Location of Existing Wells

The proposed Escrito Gallup Unit No. 20 (Elizabeth 6) well is located in Section 18, Township 24 North, Range 7 West, in Rio Arriba County, New Mexico. It is located 990 feet from the south line and 1650 feet from the west line of said section. The location of other wells in this area has been reflected on Exhibit 1 by a solid dot.

4. Lateral Roads to all Locations

It is believed that this information is furnished by Exhibit 1 and in answer to 1 and 2 above with additional roads not reflected on the USGS map written in pencil.

5. Location of Tank Battery and Flow Lines

A flow line to carry gas and oil produced would run below the cliff to the Smith No. 1 location by use of the shortest route. This proposed flow line is shown on Exhibit 1 and 3. The production would then go through the Smith 1 separator with the gas going through Smith 1 gas line through the BCO gas gathering system. The oil would go to the existing Smith 1 tank battery.

6. Location and Type of Water Supply

BCO, Inc. has a water well that is located in the $SE\frac{1}{4}$ of the $NE\frac{1}{4}$ of Section 18. This well was formerly used as a source well for water flooding in the Escrito Unit. The source of the water is the Ojo Alamo. Water would be obtained from this well and used for drilling purposes and all other related purposes.

7. Methods for handling waste disposal

Waste disposal will be disposed of by burial in the burn pit, latrine or reserve pit as applicable. A plat of the same is attached hereto.

8-9 Location of Camps and air strips

No camps or air strips will be constructed.

10. Location of layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc.

A plat of the proposed regular layout, etc. is attached. See Exhibits 4 and 5.

11. Plans for restoration of the surface

The surface will be restored as near as possible to the original condition including grading the location and reserve pits as soon as practical.

12. General description of topography and vegetation

At the point where the proposed new access road would cut off from the existing road to the Smith 3 location, the terrain is quite level, gently sloping upwards towards the cliff. The vegetation is primarily sage brush and some native grasses.

BCO, INC.

By Harvey L Bigler

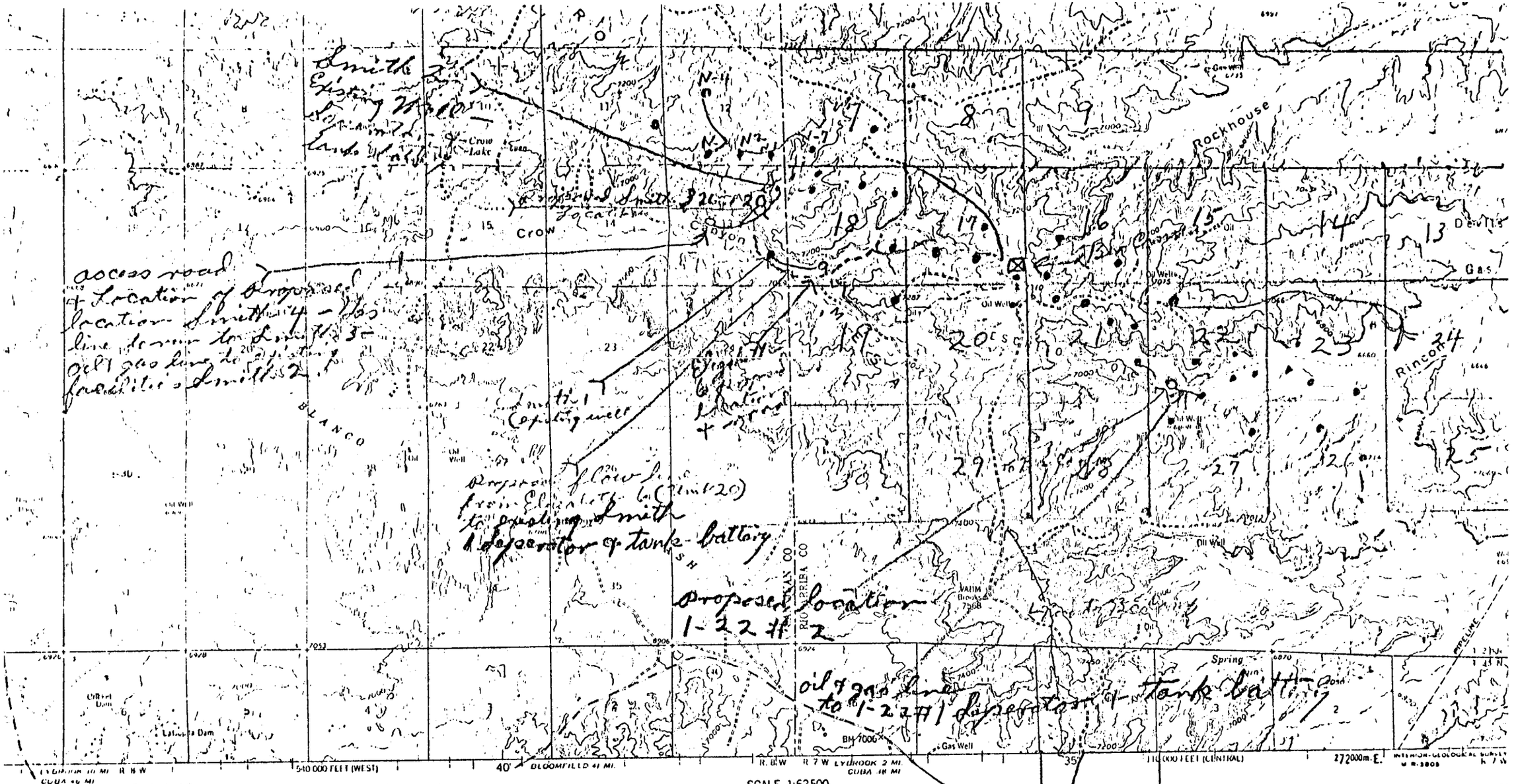
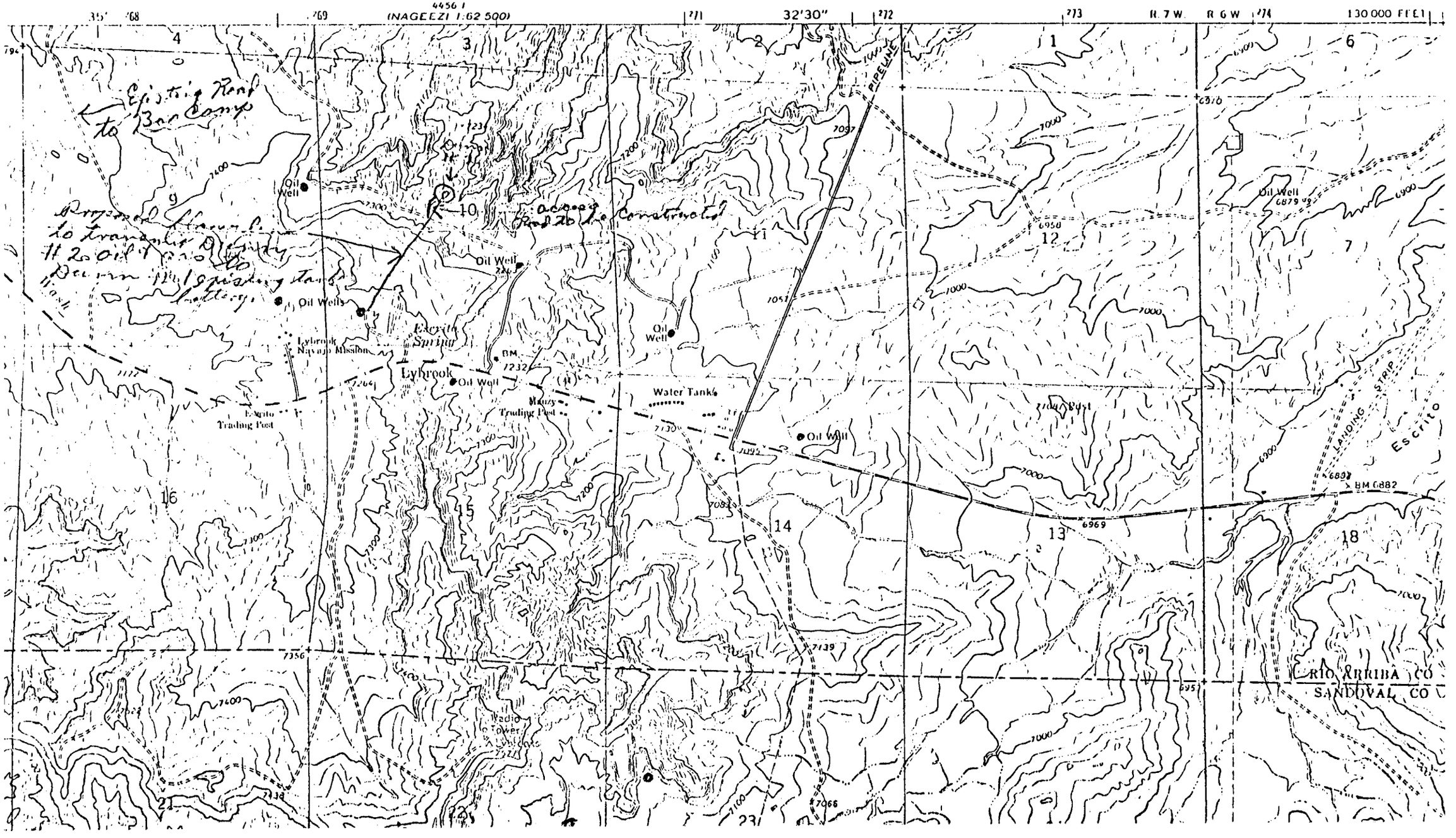

Rockhouse
Crow Canyon
Crow Lake
Rincon
Spring
Gas Well
Oil Well
Devils
BLANCO
RIO ARRIBA CO
SAN JUAN CO
Proposed location 1-22 HL
Proposed Cavo Gas (Pictured)
Existing well
Proposed location
Existing well
Proposed location
Existing roads not permitted or maps
Escrito
NEW MEXICO
SCALE 1:62500
CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL
APPROXIMATE MEAN DECLINATION, 1959
ROAD CLASS
Medium duty
Unimproved dirt
QUADRANGLE LOCATION
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D.C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

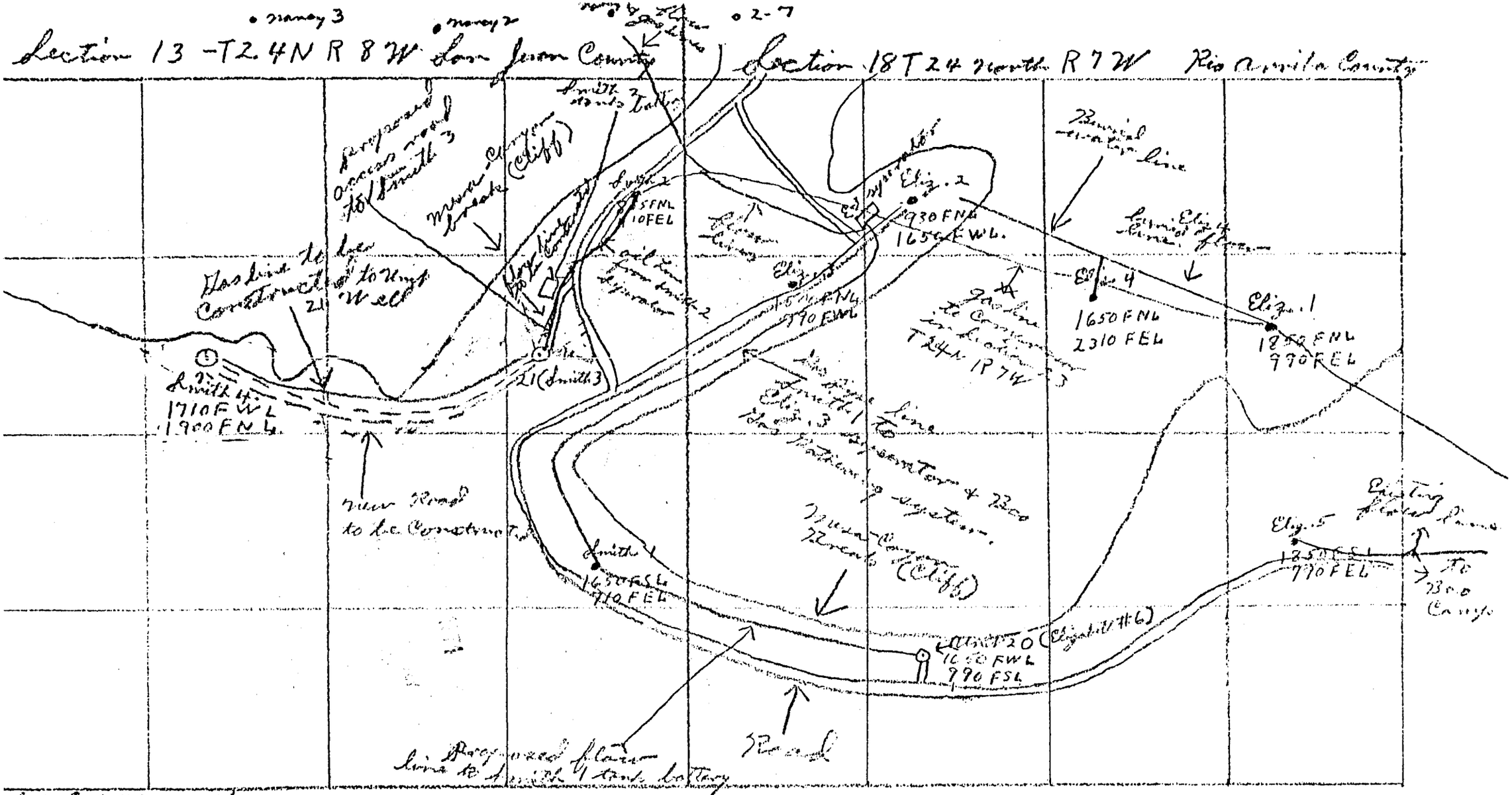
Exhibit 1

Existing well •
Proposed Location ⊙

Exhibit 2

LYBROOK QUADRANC
NEW MEXICO
7.5 MINUTE SERIES (TOPOG





Legend: • Existing wells
⊙ Approximate locations of 3 new well sites.
Smith 4: SE NW of 13.
Unit 21: SW NE of 13.
Unit 20: SE SW of 18

• 3-19N1
1650 FNL
660 FEL

Exhibit 3

BCO, INC

(Ely #6)

ESCRITO Unit #20 SEC 18 T24N R7W

FED LEASE # NM-03595

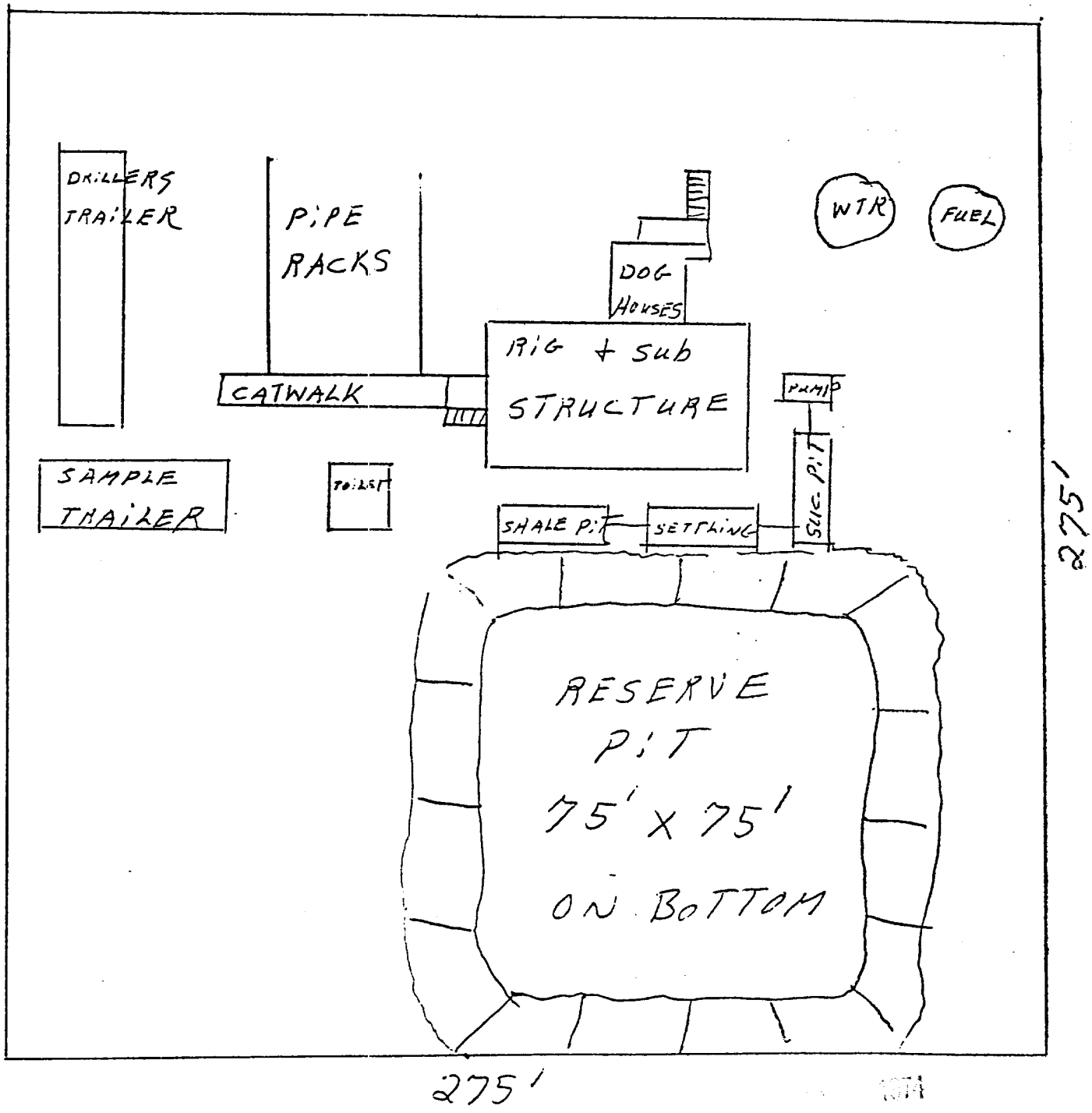


Exhibit 4

BCO, LNC

ESCRITO UNIT #20 SEC 18 T24N R7W

FED LEASE NM-03595

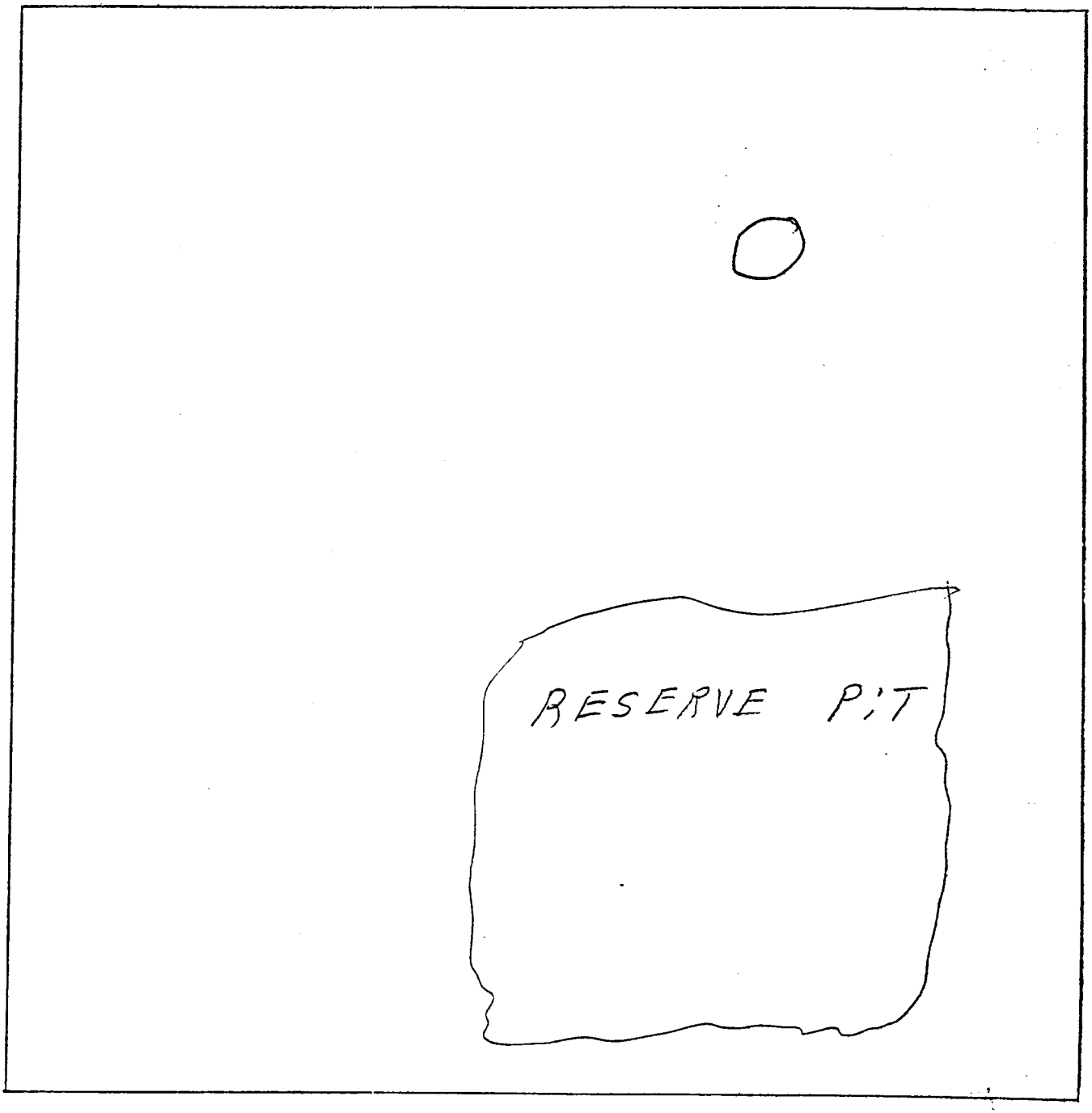
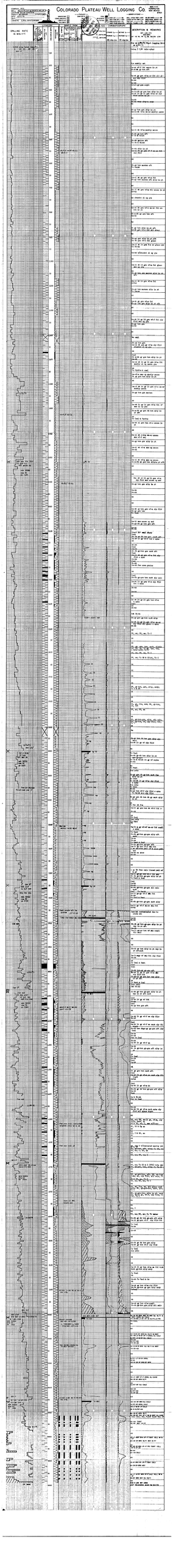


Exhibit 5


COLORADO PLATEAU WELL LOGGING CO.
DRILLING RATE IN MIN/FT
DESCRIPTION & REMARKS