

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

PLUG BACK ☐

MULTIPLE ☐

ZONE ☐

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

20. ROTARY OR CABLE TOOLS

7435'

23

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
1 1/4"	New 8 3/4"	24 #	500'	270 SX Circ.
7 7/8"	New 4 1/2"	10.5 #	4600'	1015 SX

IT IS Proposed To Drill A Straight Hole To A
Total Depth OF 4600' and complete AS A Gobernador
Pictured Cliffs Gas well,

See Attached For B.O.P. Program.

See Attached Proposed well Plan For Formation Tops, Logging, ETC.
The Acreage is Not Dedicated To A Gas Purchase

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 depth. Give blowout preventer program, if any.

24

SIGNED

TITLE

DATE _____

(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**

USGS-Durango-6, north western Apolins, El Paso, MTL, BEA, F110(2)

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.

Owner Continental Oil Company		Lease Conoco 29-4 San Juan 29-4 Unit		Well No. 10
Section A	Section 14	Township 29N	Range 4W	County Rio Arriba
Actual Distance Location of Well:				
980	feet from the	North	line and	790
feet from the				feet from the
7435		Pictured Cliffs		Undesignated
				160
				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.

CERTIFICATION

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

Name
Wm. A. Dutton
Position
Admin. Supv.
Company
CONTINENTAL OIL CO.
Date
12-13-77

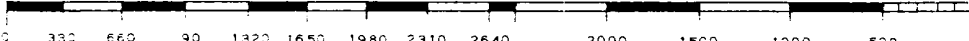
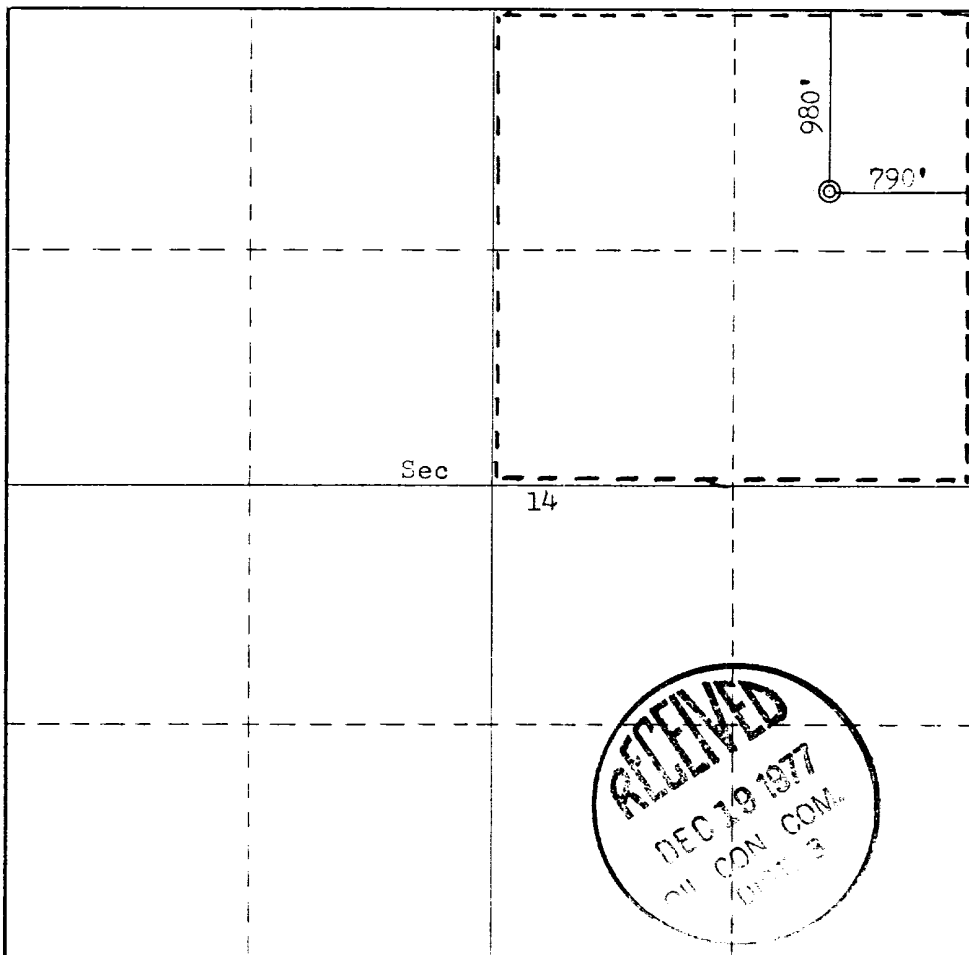
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
November 15, 1977

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.
3950



Continental Oil Company, Conoco 29-4 No. 10
980' FNL and 790' FEL of Section 14, T-29N, R-4W
Rio Arriba County, New Mexico

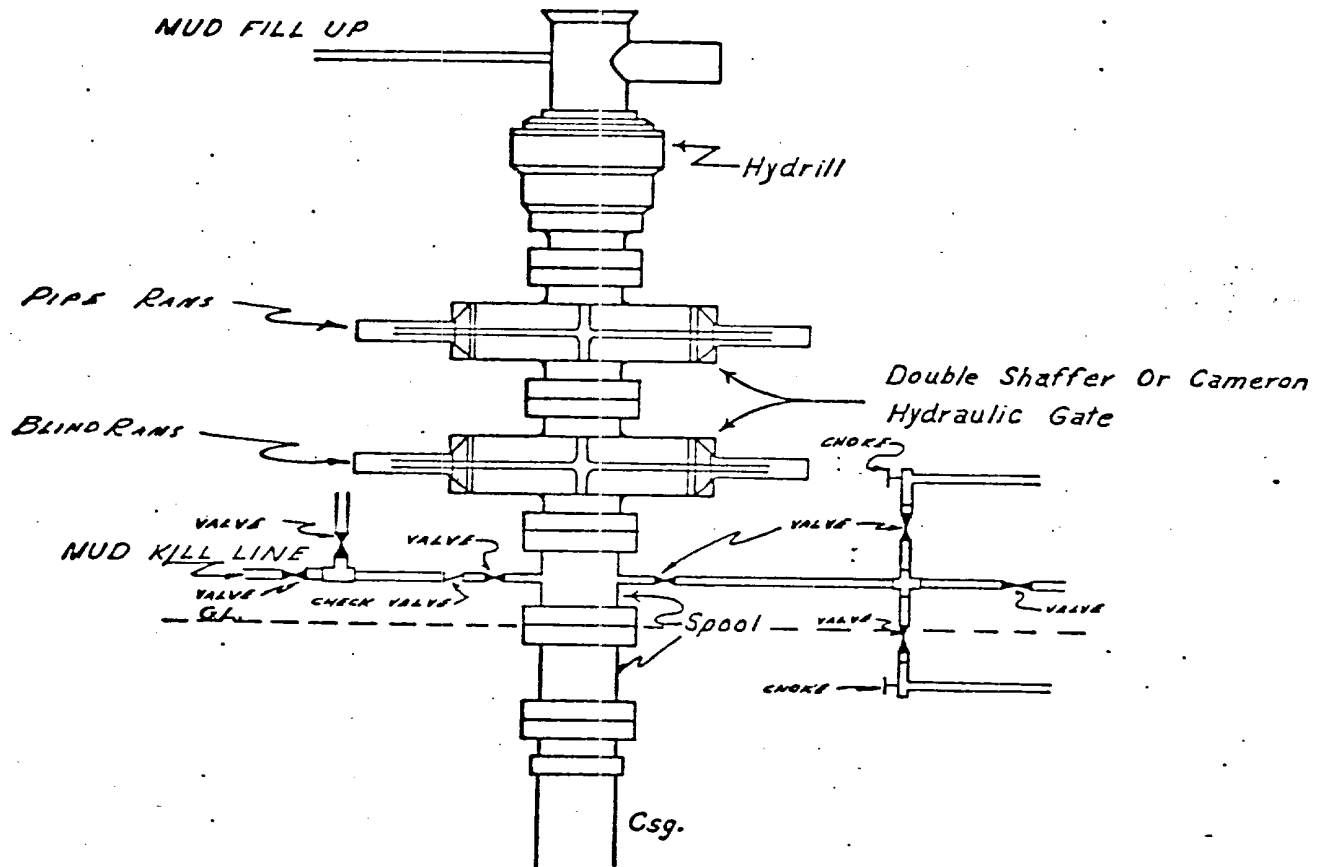
1. The geologic name of the surface formation is Cretaceous.
2. The attached tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The proposed casing program is as follows:

Surface - new 8 5/8" 24# K-55 set at 500'
Production - new 4 1/2" 10.5# set at 4600'
4. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
5. The proposed mud program is as follows:

0-500' spud mud 8.5-9.0 pounds per gallon
500'-4600' water gel 8.5-9.0 pounds per gallon
6. The auxiliary equipment to be used is:

(1) Kelly cocks
(2) Floats at the bit
7. It is proposed to run 2" and 5" GR-CAL-FDC-SP-IES-CNL logs from TD to 3700'.
8. No abnormal pressures or temperatures are expected to be encountered.
9. The anticipated starting date for this well is as soon as possible with a duration date of approximately 10 days.

CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



API Series 900

NOTE:

Manual and Hydraulic controls with closing unit no less than 75' from well head.
Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,
HYDRILL MAY OR MAY NOT BE USED.

Continental Oil Company
CONOCO 29-4 NO. 10

PROPOSED WELL PLAN OUTLINE

WELL NAME: Conoco 27-4 NO.10

COUNTY: Pro Arriba

LOCATION: 920' FNL & 790' FEL

STATE: New Mexico

Sec. 14, T29N, R4W

Est. 7450 DF

7435' GL

Proposed well Plan

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE IN	CASING		FRACTURE GRADIENT (PPG)	FORMATION PRESSURE GRADIENT (PPG)	MUD	
					SIZE IN	DEPTH FT			WEIGHT (PPG)	TYPE
	Cretaceous									
		Geolograph O-TD		12 1/4	8 5/8	500			8.5 TO 9.0	FRESH WATER GEL
			Well Logs							
			SP-IES TD - Surf. Csg. 2" + 5"							
	Ojo Alamo ss. 3430		GR-CAL-CHL-FDC TD - 3700' 2" + 5"							
	Kirkland sh. 3870		PDC Selected Intervals							
	Pictured Cliffs ss. 4150	G.S.								
	TD 4600			7 7/8	4 1/2	4600	13.0 TO 14.0	LESS THAN 8.5	8.5 TO 9.0	

Date _____

Prepared by:

SURFACE USE PLAN
Continental Oil Company, Conoco 29-4 No. 10
980' FNL and 790' FEL of Section 14, T-29N, R-4W
Rio Arriba County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 49 3/4 miles northeast of Bloomfield, New Mexico. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 980' FNL and 790' FEL of Section 14, T-29N, R-4W, Rio Arriba County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location (outlined in red on map) from Bloomfield, New Mexico are as follows: Travel east 49 miles on Highway No. 64 - New Mexico No. 17. Turn south on logging road for approximately 1 1/2 miles; turn west and travel west southwest for approximately 1 1/2 miles to the new road location.
- C.D.E. The access roads are shown on Exhibits "B" and "C".
- F. Approximately 1 mile of a preexisting logging road approaching the well from the northeast will be re-surfaced.

2. Planned Access Roads

- A. Width and Length: New road required will be 18' wide and approximately 1/2 mile long. This new road is labeled on Exhibits "B" and "C". (staked)
- B. Turnouts: None
- C. Drainage Design: The road will be constructed to provide for adequate drainage.
- D. Culverts, Cuts and Fills: None
- E. Surfacing Material: Native soil
- F. One cattleguard will be installed at base of the mountain in Section 14 to be used while drilling and an iron gate installed after drilling is completed.
- G. The proposed road is staked.

3. Location of Existing Wells

See Exhibit "C".

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: None required.
- B. Producing Facilities: No new facilities required.
- C. Oil Gathering Lines: None required.
- D. Other Lines: Gas gathering line to be put in by purchaser of the produced gas.
- E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operation will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply: La Jara Canyon located in Section 20, T-29N, R-3W.

6. Construction Materials:

- A. Native Soil

7. Methods for Handling Waste Disposal:

Waste Disposal - Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" of dirt. See Exhibit "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to the survey for appropriate approval.

8. Ancillary Facilities:

None

9. Well Site Layout:

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, trash pit, etc. The pad and pits are staked.

10. Plans for Restoration of Surface:

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information:

- A. Terrain - Broken, the well is located on a narrow mesa with steep slopes to the northeast and southwest.
- B. Soil - Sandy; clay loam with sandstone outcrops.
- C. Vegetation - Sagebrush, Pinon, Juniper and Mountain Mahogany.
- D. Surface Use - Grazing
- E. Ponds and Streams - None within one mile
- F. Water Wells - None within one mile
- G. Residences and Buildings - None within one mile
- H. Arroyos, Canyons, Etc. - See Exhibit "B"
- I. Well Sign - Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- J. Open Pits - All pits containing mud or other liquids will be fenced.
- K. Archaeological Resources - None

12. Operator's Representative:

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

B. E. Anderson
Petroleum Center Building
Room 215
501 Airport Drive
Farmington, New Mexico 87401
Phone: (505) 327-9557

L. P. Thompson
1001 North Turner
Hobbs, New Mexico 88240
Phone: (505) 393-4141

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 herein will be performed by Continental Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

12/13/77
Date

E. L. Thompson (Asst. Div. Mgr.)
for L. P. Thompson
Division Manager

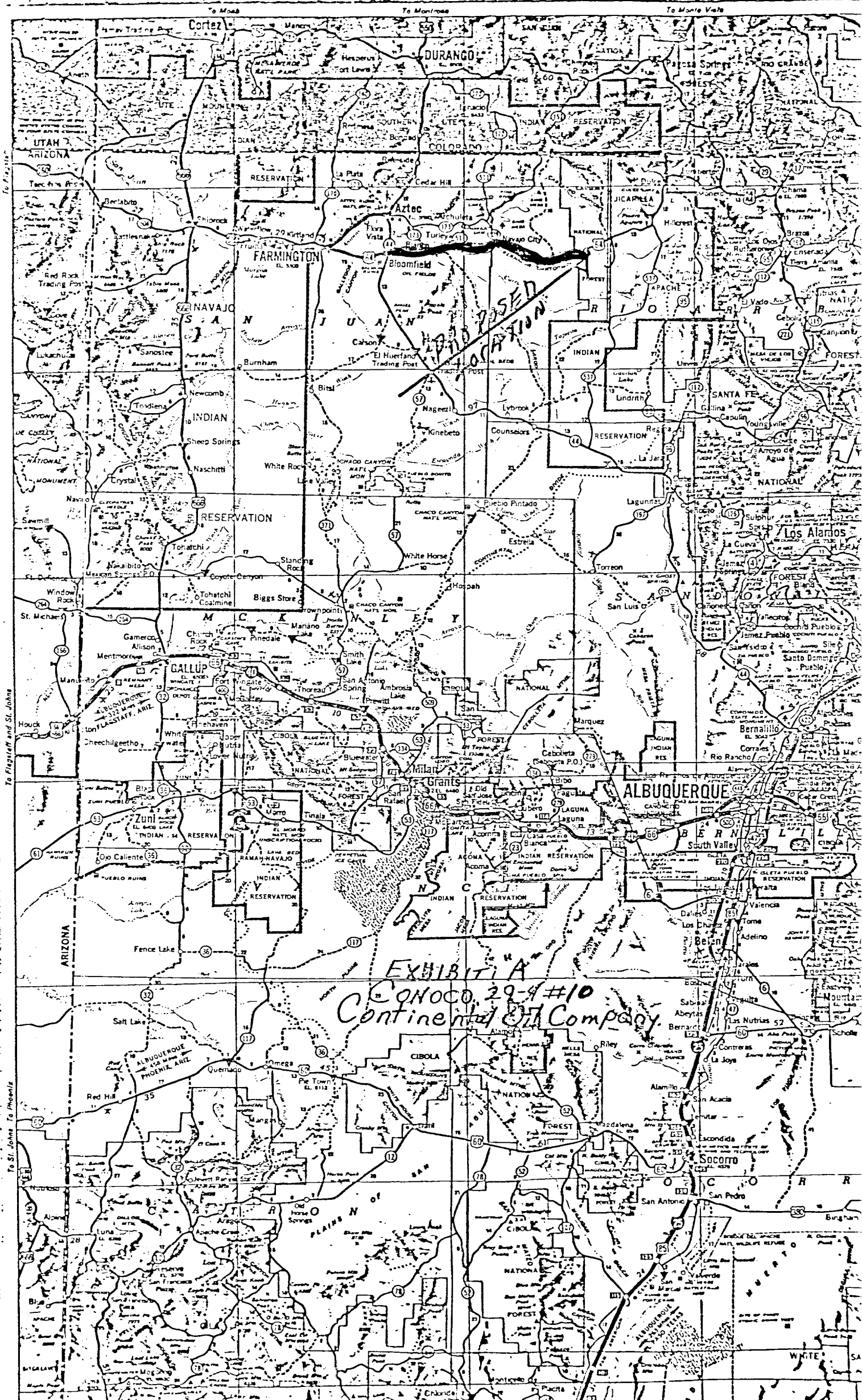
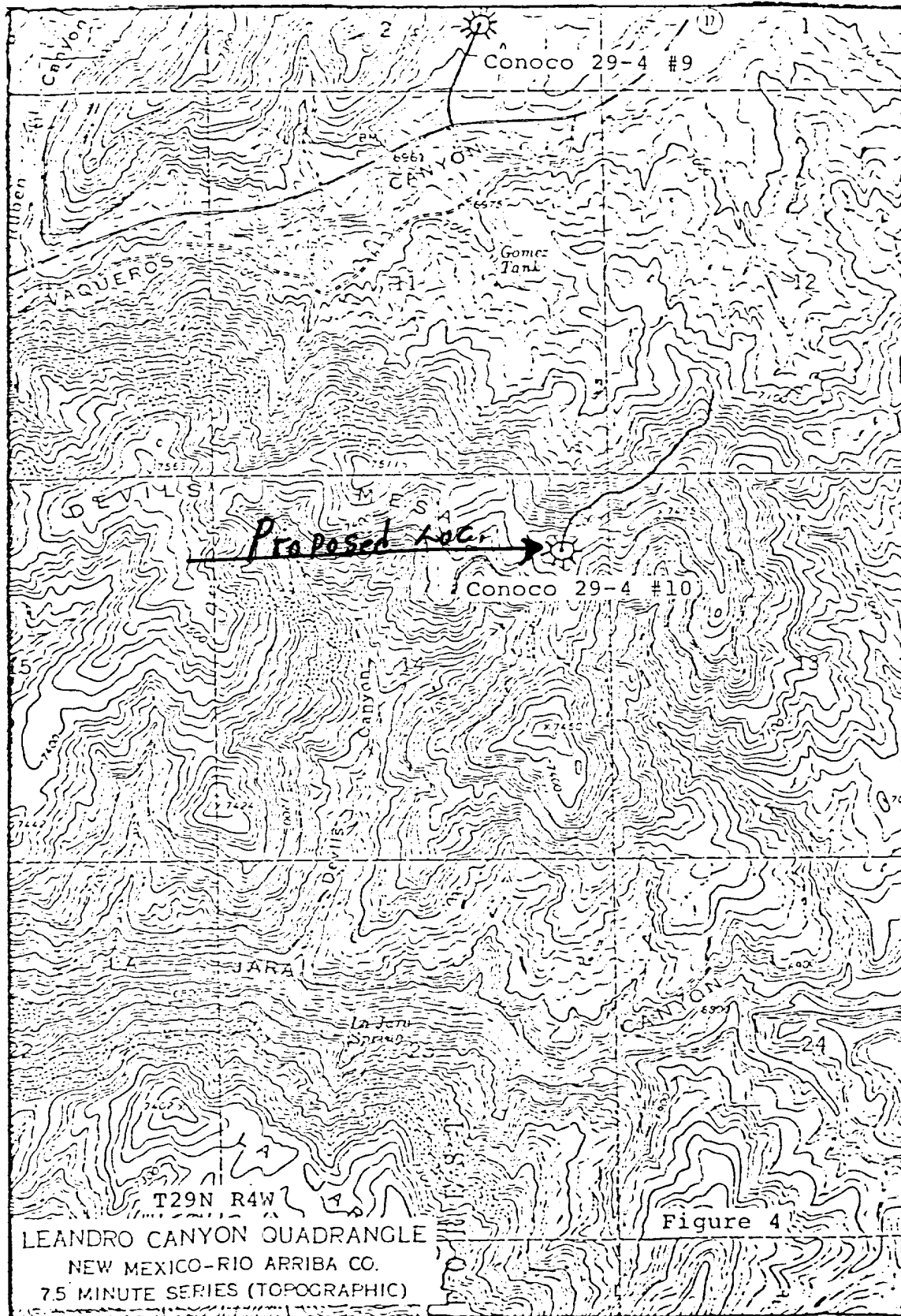


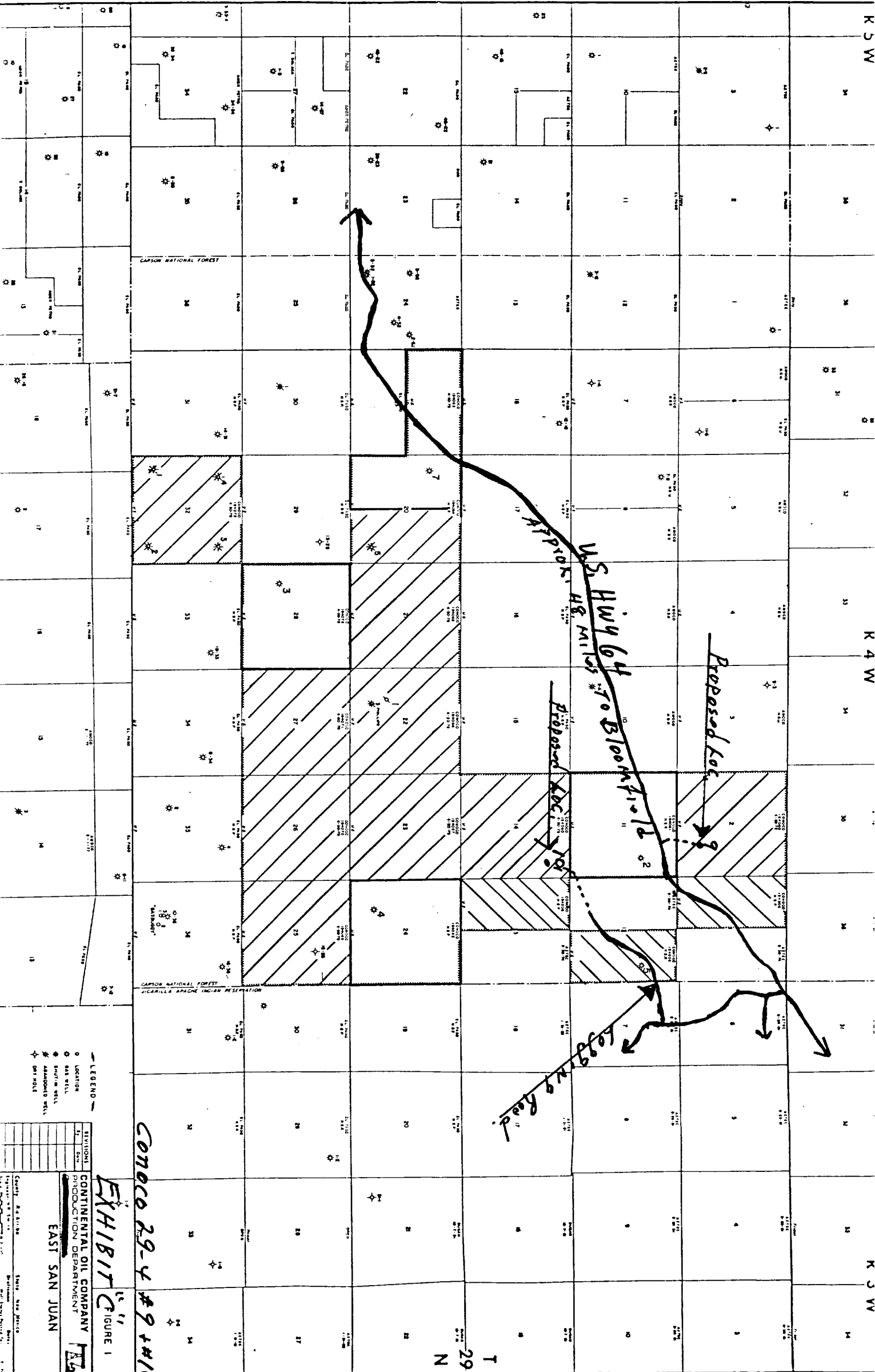
EXHIBIT A
CONOCO 29-4 #10
Continental Oil Company

To Flagstaff and St. Johns
To St. Johns To Phoenix

To Moab To Montrose To Monte Vista



CONOCO 29-4 #10
EXHIBIT "B"



CONOCO 29-4 #9 + #10

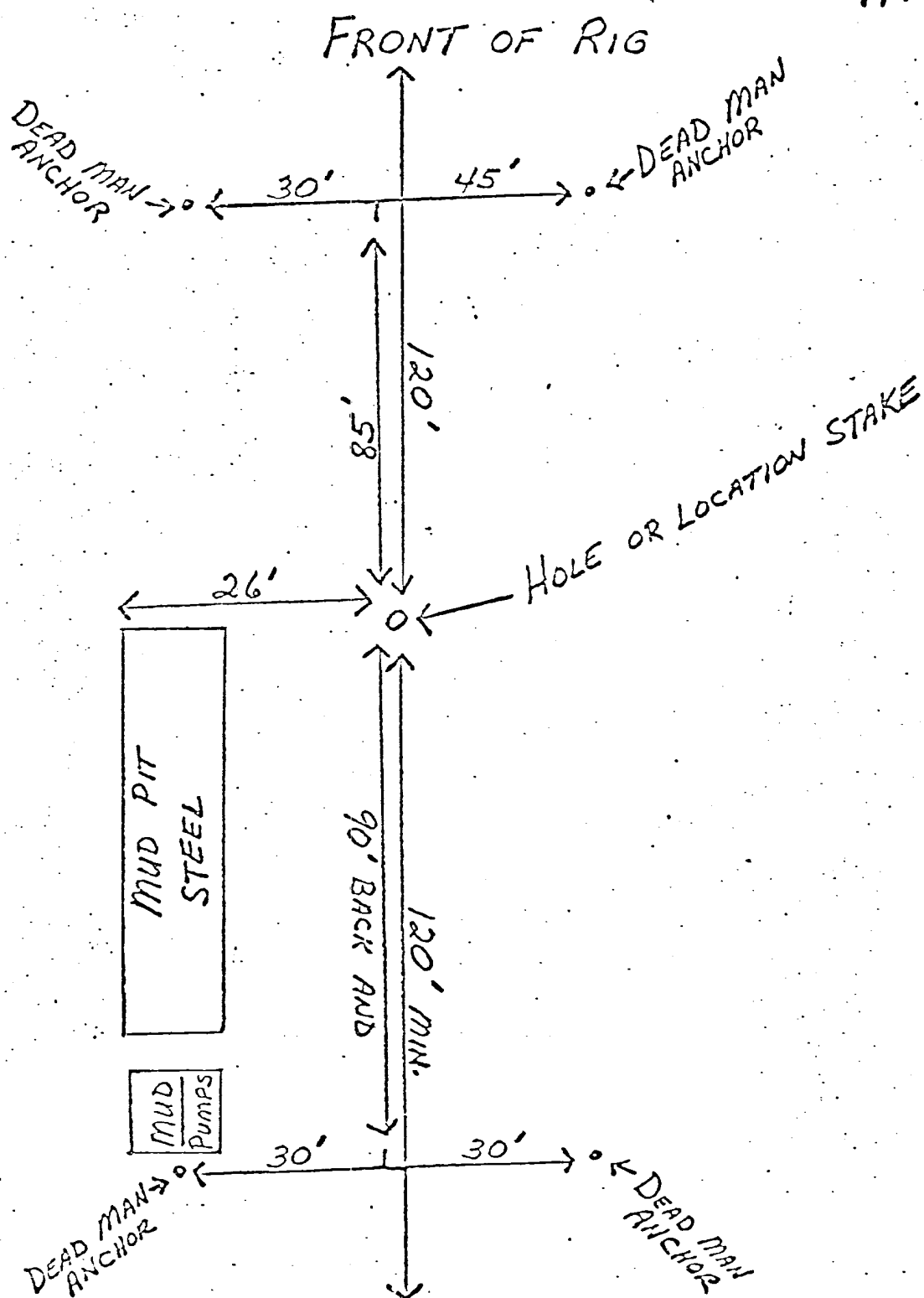
EXHIBIT C
FIGURE 1

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT

EAST SAN JUAN

County: Rio Arriba
State: New Mexico
Twp: 29 N
Rng: 4 W
Sec: 4

RIG #1



RESERVE PIT 150' X 150' X 5' DEEP

Continental Oil Company
Conoco 29-4 No. 10
EXHIBIT "D"