

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-21524

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
Continental Oil Company

3. ADDRESS OF OPERATOR
Box 460, Hobbs, N.M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1480' FNL + 900' FEL
At proposed prod. zone
Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6603' GR.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<i>12 1/4"</i>	<i>8 3/8"</i>	<i>24 #</i>	<i>500'</i>	<i>270 SX</i>
<i>7 1/2"</i>	<i>4 1/2"</i>	<i>16.6 #</i>	<i>3750'</i>	<i>375 SX</i>

IT IS Proposed to Drill a Straight Hole to a Total Depth of 3750' and complete as a Gobernador Pictured Cliffs Gas Well. See Attached For B.O.P. Program. See Attached Proposed Well Plan For Formations Top, Logging, ETC. The Revenue is not Dedicated to A Gas Purchase.

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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 *Wm. A. Butterfield* TITLE *Admin. Supv.* DATE *10-18-77*

(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 Pipeline, El Paso, MTH BEA, File (2)

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

Operator CONTINENTAL OIL COMPANY			Lease CONOCO 29-4		Well No. 6
Unit Letter H	Section 19	Township 29 NORTH	Range 4 WEST	County RIO ARriba	

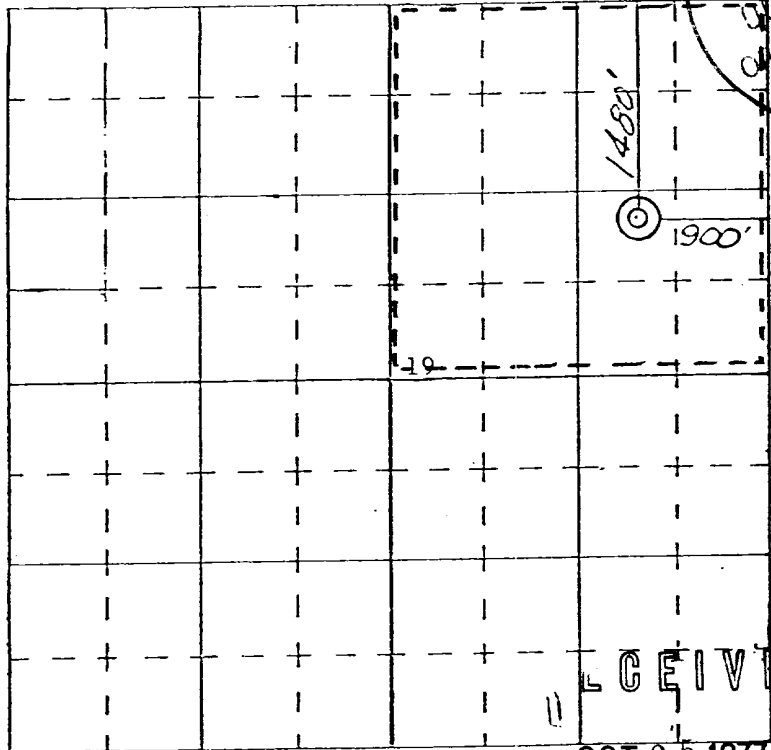
Actual Footage Location of Well:
1480 feet from the **NORTH** line and **900** feet from the **EAST** line

Ground Level Elev. 6603	Producing Formation Pictured Cliffs	Pool Gobernador	Dedicated Acreage: 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 communization, 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 consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.



SCALE—4 INCHES EQUALS 1 MILE

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CERTIFICATION

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

Wm. A. Butterfield
 Name
Admin. Supv.
 Position

Company
Continental Oil Co.

Date
10-18-77

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.

James P. Leese
 Date Surveyed
26 September 1977
 Registered Professional Engineer
 and/or Land Surveyor **James P. Leese**

Certificate No. **1463**

Attachment to Form 9-331 C
Application for Permit to Drill

Continental Oil Company, Conoco 29-4 No. 6
1480' FNL and 900' FEL of Section 19, 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" 11.6# set at 3750'
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:

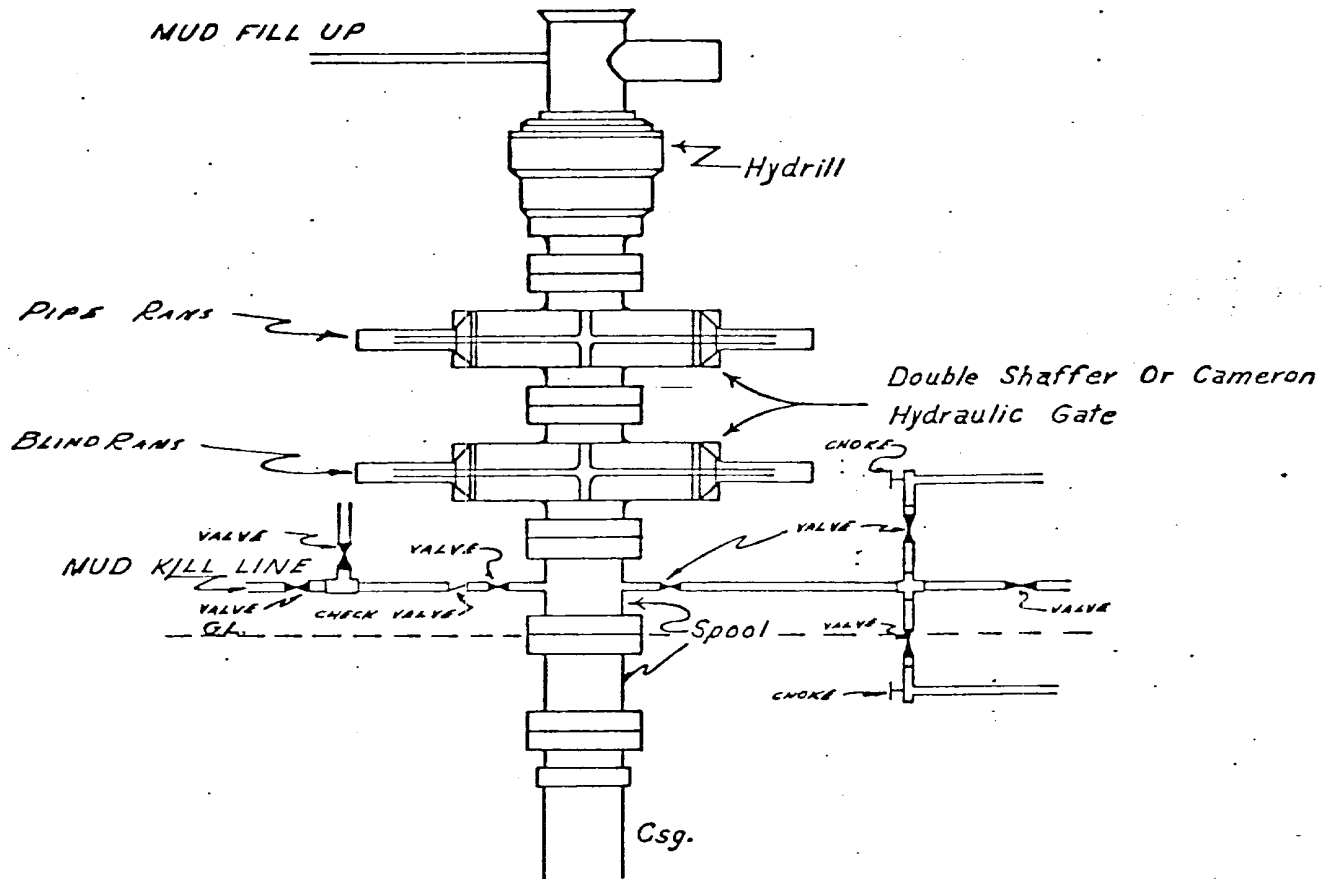
 0-500' spud mud 8.5-9.0 pounds per gallon
 500'-3750' water gel 8.5-9.0 pounds per gallon
6. The auxiliary equipment to be used is:

 (1) kelly cocks
 (2) floats at the bit
7. It is proposed to run 2" and 5" GR-CAL-FDC-SP-IES logs from TD to 2400'.
8. No abnormal pressures or temperatures are expected to be encountered.
9. The anticipated starting date for this well is November 28, 1977 with a duration date of approximately 10 days.

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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.

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Continental Oil Company
COMOCO 29-4 No. 6

WELL NAME: Conoco 29-4 No. 6

COUNTY: Rio Arriba

LOCATION: 1480 FNL & 980 FEL, Sec. 19,
T29N, R4W

STATE: New Mexico
6625 KB

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE	DEPTH			WEIGHT	TYPE
	<i>Cretaceous</i>									
				12 1/4	8 5/8	500			8.5 to 9.0	Fresh Water FGM
1000		Geolograph 0-TD								
2000										
	Ojo Alamo 2730		SP-IES TD - Surface 2" & 5"							
3000	Kirtland 3070	<i>SS</i>								
	Fruitland 3250	<i>SS</i>	GR-CAL-FDC TD - 2400' 2" & 5"							
	Pic. Cliffs 3450	<i>SS</i>								
	TD 3750			7 7/8	4 1/2	3750	14.0 to 15.0	Less than 8.5	8.5 to 9.0	Fresh Water Gel

SURFACE USE PLAN
Continental Oil Company; Conoco 29-4 No. 6
1480' FNL and 900' FEL of Section 19, T-29N, R-4W
Lease NM18319, Rio Arriba County, New Mexico

This plan is to accompany "Application for Permit to Drill" the subject well which is located approximately 44 miles due east 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 1480' FNL and 900' FEL of Section 19, 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 44 miles on Highway No. 64 - New Mexico No. 17. The new road will be 400' Northwest from Highway Station No. 1804+00.

C.D.E. The access roads are shown on Exhibits "B" and "C".

- F. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New road required will be 18' wide and 400' 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: Sand
- F. Gates, Cattleguards, Fences: None
- G. The proposed road is staked.

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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 wash located approximately 1000' west of Conoco 29-4 No. 7.

6. Construction Materials:

- A. Sand which is located on Indian land.

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.

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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 - See Exhibit "B", topographic map of area.
- B. Soil - Sandy Clay
- C. Vegetation - Pinon, Juniper, Weltberry, Blue Grama and Rabbit Brush
- D. Surface Use - Grazing
- E. Ponds and Streams - La Jara Creek, Bubbling Springs approximately 1500' south of location
- 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

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STATE OF NEW MEXICO

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.

10-19-77

Date



L. P. Thompson
Division Manager

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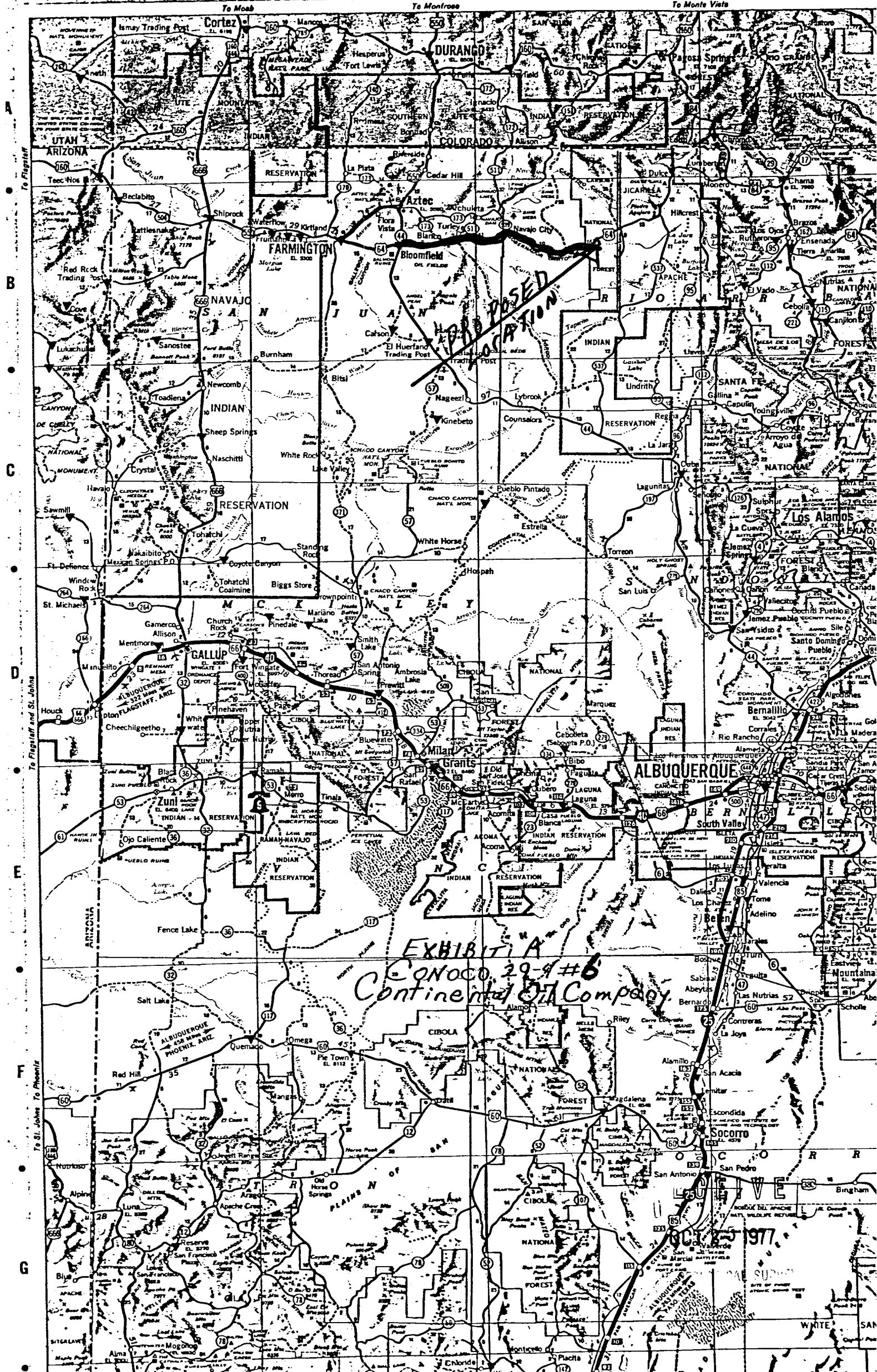
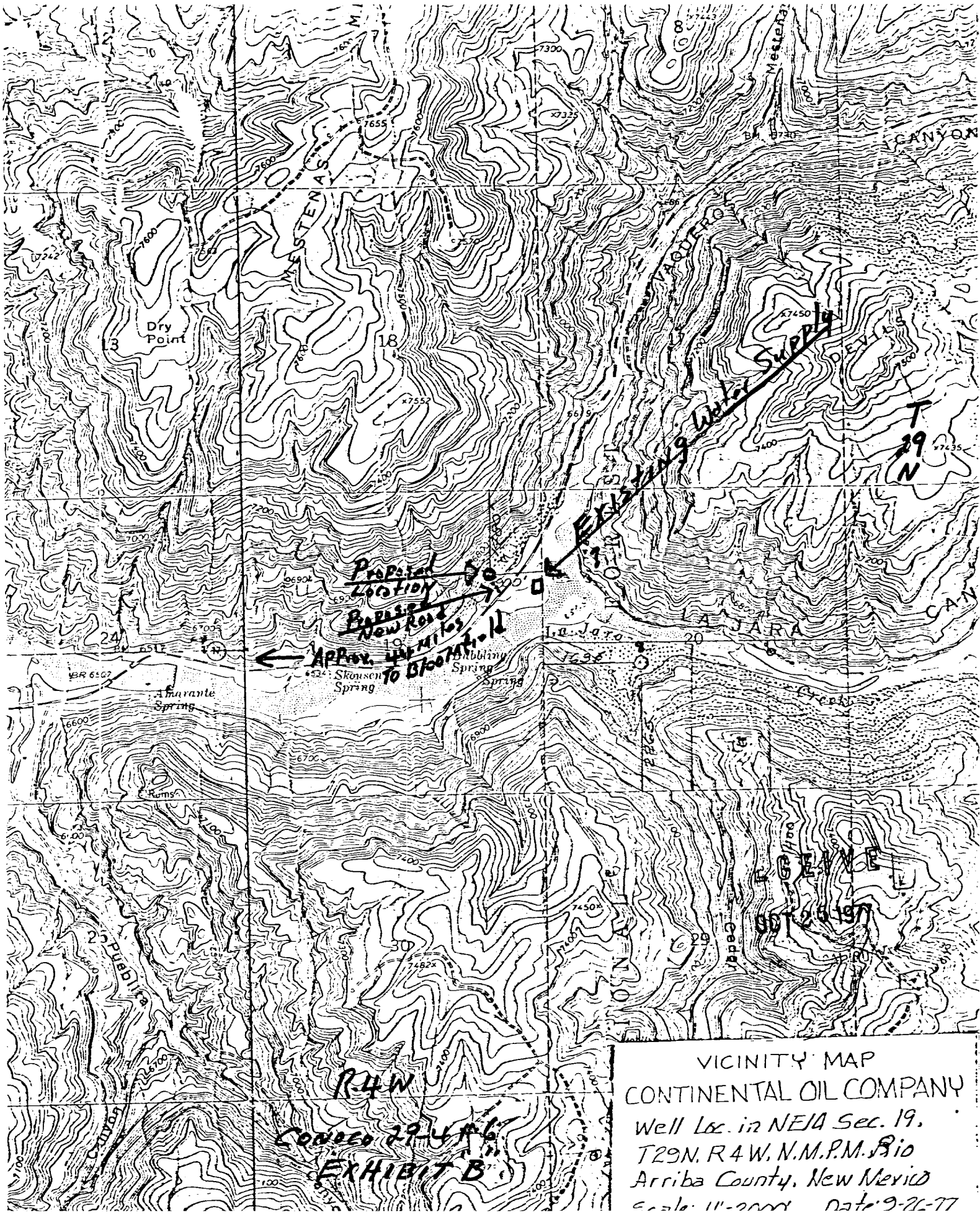


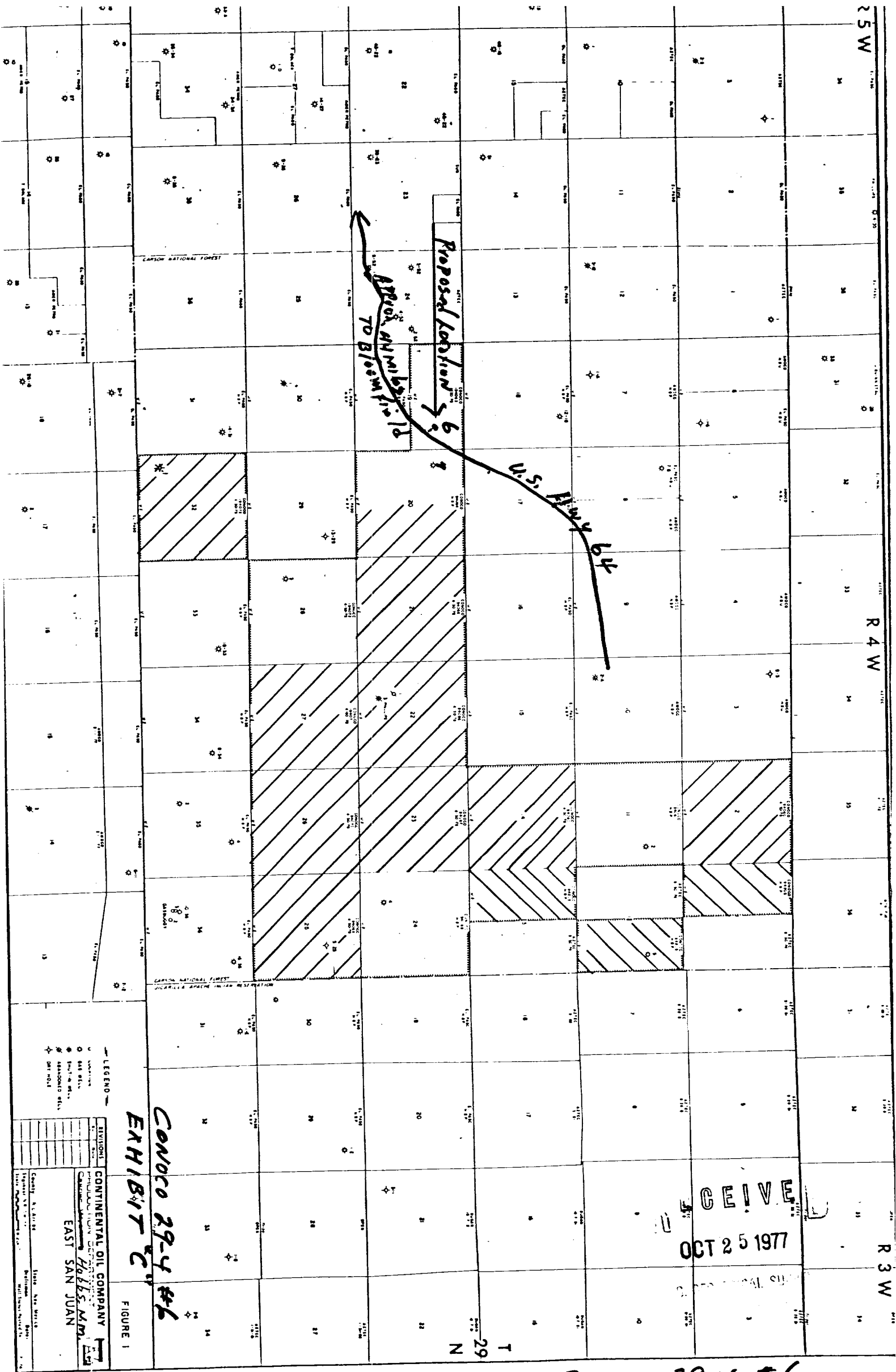
EXHIBIT A
CONOCO 29-9-#6
Continental Oil Company

OCT 25 1977



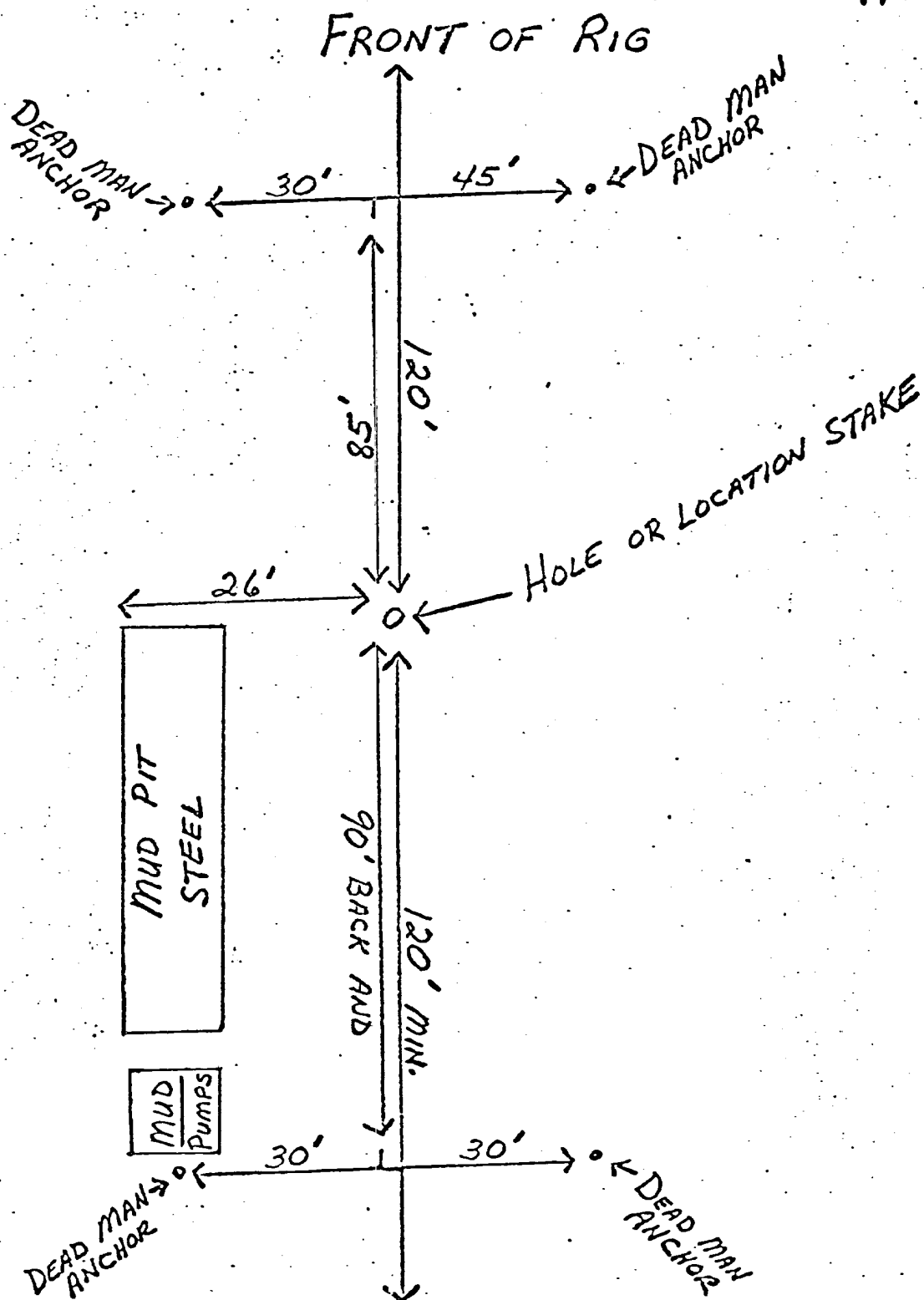
VICINITY MAP
CONTINENTAL OIL COMPANY
Well loc. in NE1/4 Sec. 19,
T29N. R4W. N.M.P.M. Rio
Arriba County, New Mexico
Scale: 1"=2000' Date: 9-26-77

R4W
CONDEO 22-4A6
EXHIBIT B



CONOCO 29-4 #6
EXHIBIT "C"

RIG #1



RESERVE PIT 150' X 150' X 5' DEEP

Continental Oil Company
 Conoco 29-4 No. 6
 EXHIBIT "D"