

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-22003

5. LEASE DESIGNATION AND SERIAL NO.

NM 1839 1-223

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

CONOCO 29-4

9. WELL NO.

12

10. FIELD AND POOL, OR WILDCAT

CHOZA MESA PICTURED CLIFFS EXT

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

SEC. 24, T. 29N., R. 4W

12. COUNTY OR PARISH 13. STATE

Rio Arriba N.M.

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 CO

3. ADDRESS OF OPERATOR

P.O. BOX 460 HOBBS, N.M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1180' FNL + 990' FWL

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)

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

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

19. PROPOSED DEPTH

3900'

20. ROTARY OR CABLE TOOLS

ROTARY

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

6986' EL

22. APPROX. DATE WORK WILL START*

MAR. 17, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

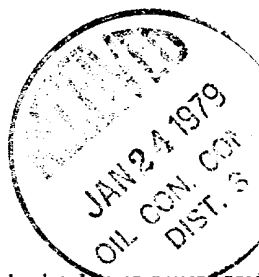
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 #	250'	135 sk
7 7/8"	4 1/2"	10.5 #	3900'	340 sk

IT IS PROPOSED TO DRILL A STRAIGHT HOLE TO A TD OF 3900' AND complete as
a CHOZA MESA P.C. gas well.

SEE ATTACHMENT FOR 10 point well plan.

SEE ATTACHMENT FOR 13 point surface use plan.

Acreage is dedicated to a gas purchaser.



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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

TITLE

ADMINISTRATIVE SUPERVISOR

DATE 1-15-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ELSGS Durango & ok Frank

BEA

M.J.L.

REL FOL

*See Instructions On Reverse Side

NORTHWESTERN Pipeline - Salt Lake City, Utah

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

Form C-102
Supersedes C-128
Effective 1-4-65

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

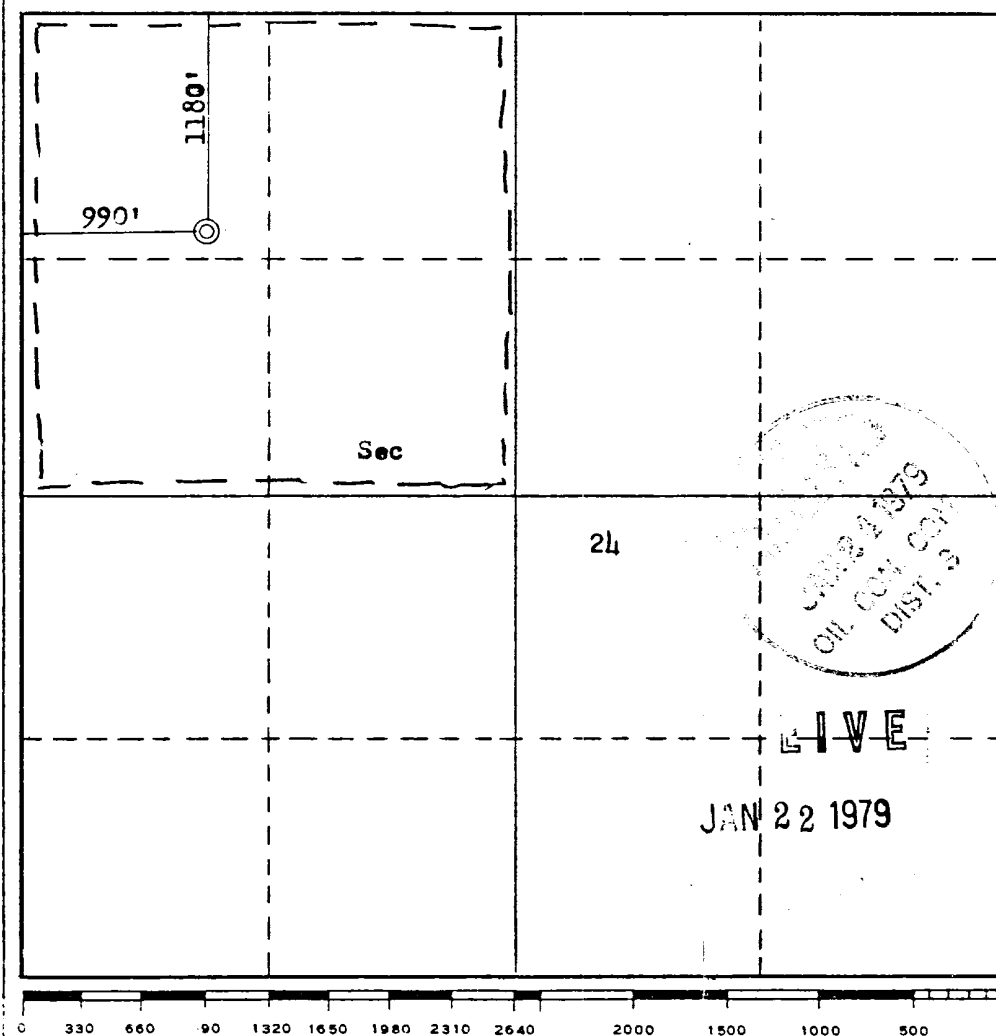
Operator CONTINENTAL OIL COMPANY			Lease CONOCO 29-4		Well No. 12
Unit Letter D	Section 24	Township 29N	Range 4W	County Rio Arriba	
Actual Footage Location of Well: 1180 feet from the North line and 990 feet from the West line					
Ground Level Elev. 6986	Producing Formation Pictuered Cliffs		Pool Choza Mesa Pictuered Cliffs EXT		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 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. D. Butterfield
Position Administrative Supervisor
Company Continental Oil Co
Date 1-15-79

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 October 19, 1978
Registered Professional Engineer and/or Land Surveyor Fred B. Kavan Jr.
Certificate No. 3950

ATTACHMENT TO FORM 9-331 C
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company
Conoco 29-4 Nos. 11 and 12
T29N R4W
Rio Arriba County, New Mexico

1. The geologic name of the surface formation is cretaceous.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

0 - 250' 8 5/8", 24#, K-55, ST&C
0 - 3900' 4 1/2", 10.5#, K-55, ST&C
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

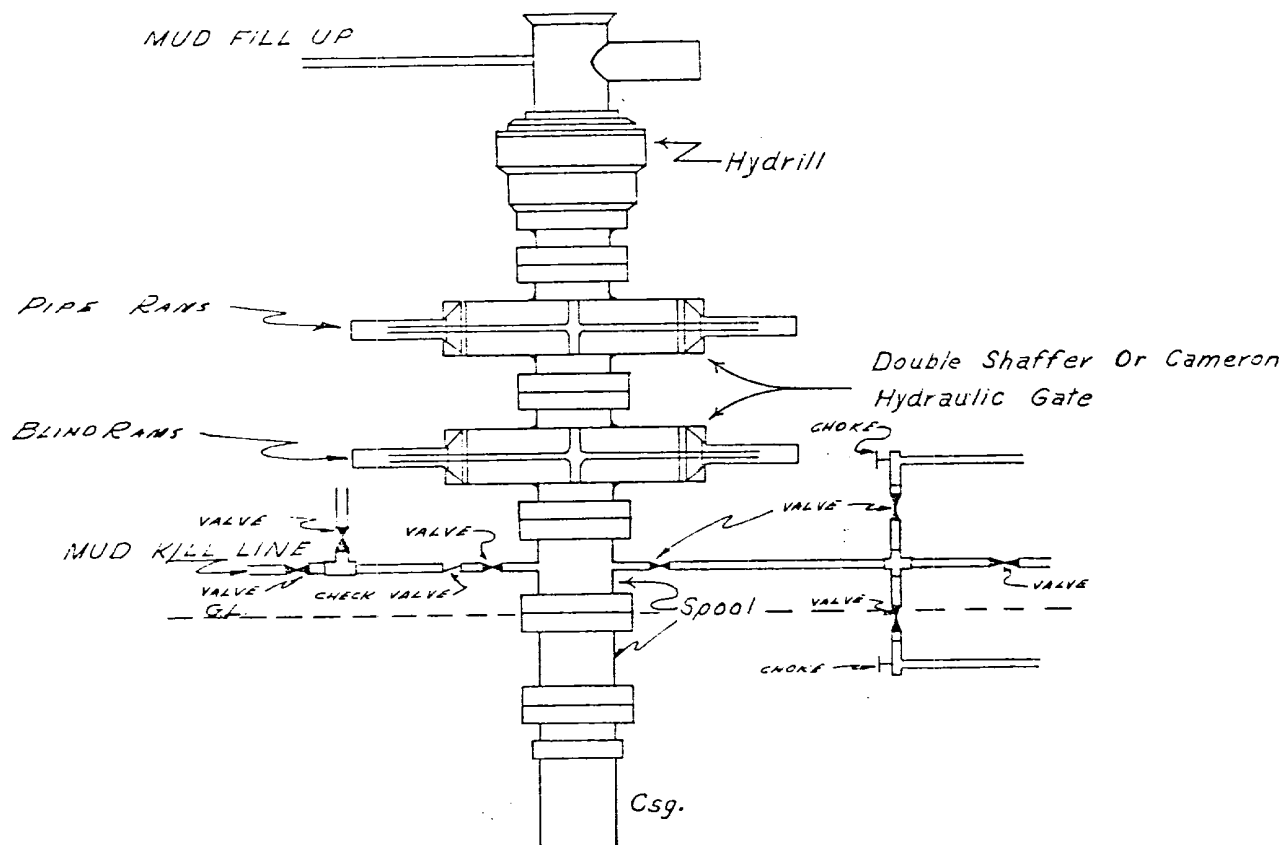
0 - 250' 8.5 - 9.0 ppg spud mud
250' - 3900' 8.5 - 9.0 ppg fresh water gel
7. The auxiliary equipment to be used is:

(1) kelly cocks
(2) floats at the bit
8. It is proposed to run SP-IES log from TD to approximately 250' and GR CAL CNL FDC PDC logs at selected intervals.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for the first well is March 10, 1979, with a duration of approximately seven days for each well.

PEB:skr

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CONTINENTAL OIL COMPANY
Blow-out Preventer Specifications



NOTE:

API SERIES 900

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 MAYNOT BE USED.

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SURFACE USE PLAN
Continental Oil Company
Conoco 29-4 Nos. 11, 12, and 13
T-29N, R-4W
Rio Arriba County, New Mexico.

The plan is to accompany "Application for Permit to Drill" the subject wells. 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 sites are as follows:
Well No. 11 - 1090' FSL and 990' FEL, Section 24
Well No. 12 - 1180' FNL and 990' FWL, Section 24
Well No. 13 - 1740' FNL and 1460' FWL, Section 13
- B. Exhibit "A" is a portion of a New Mexico road map showing existing roads and location.
- C. The access roads are shown on Exhibits "A" and "B".

2. Planned Access Roads

Refer to the attached archaeological report.

3. Location of Existing Wells

See Exhibit "B"

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: none required.
- B. Gas gathering line to be installed by purchase of produced gas.
- C. Rehabilitation: 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.

5. Water Supply

The supply of water will be hauled from La Jara wash located NW/NW Sec. 20, T-29N, R-4W.

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6. Source of Construction Materials

Not applicable. Drilling pad to be compacted.

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.

8. Ancillary Facilities

None

9. Well Site Layout

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc.

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. Surface will be leveled and properly conditioned as required by USGS after consulting with proper surface managing agency.

11. Other Information

A. Terrain: "A" through "C" refer to the attached archaeological report.

B. Soil:

C. Vegetation:

D. Surface Use: Suitable for grazing.

E. Ponds and Streams: La Jara Creek, see Exhibit "B" for relative location with respect to well site.

F. Water Wells: None within one mile.

G. Residences and Buildings: None within one mile.

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- H. Arroyos, Canyons, Etc: See attached topographic map, 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: See attached archaeological report.

2. Operator's Representative

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

PRODUCTION AND DRILLING

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

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

J. R. Kemp
1001 North Turner
Hobbs, New Mexico 88240
Phone: (505) 393-4141

3. 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.

1-17-79
(Date)

J. P. Thompson

PEB:skr

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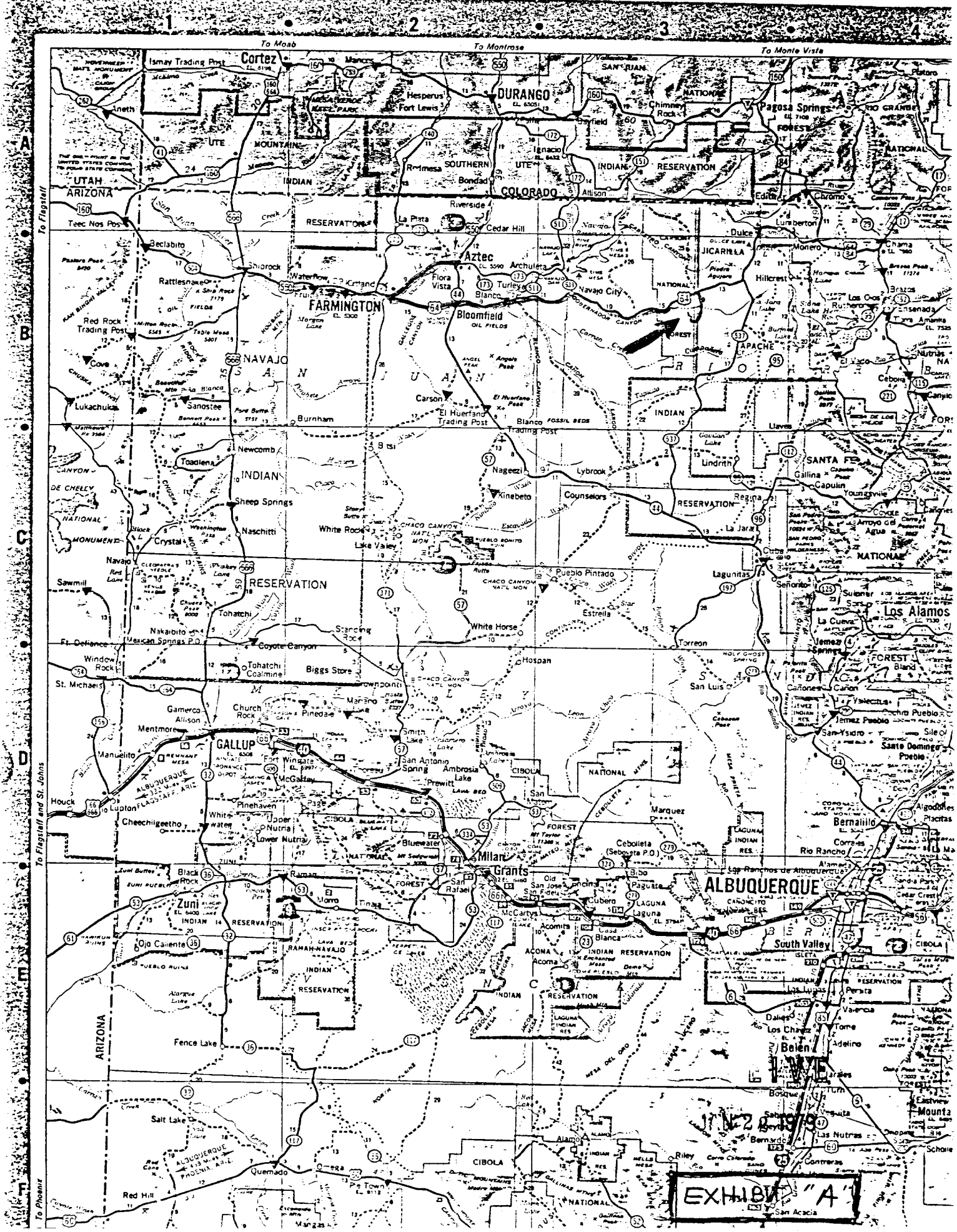
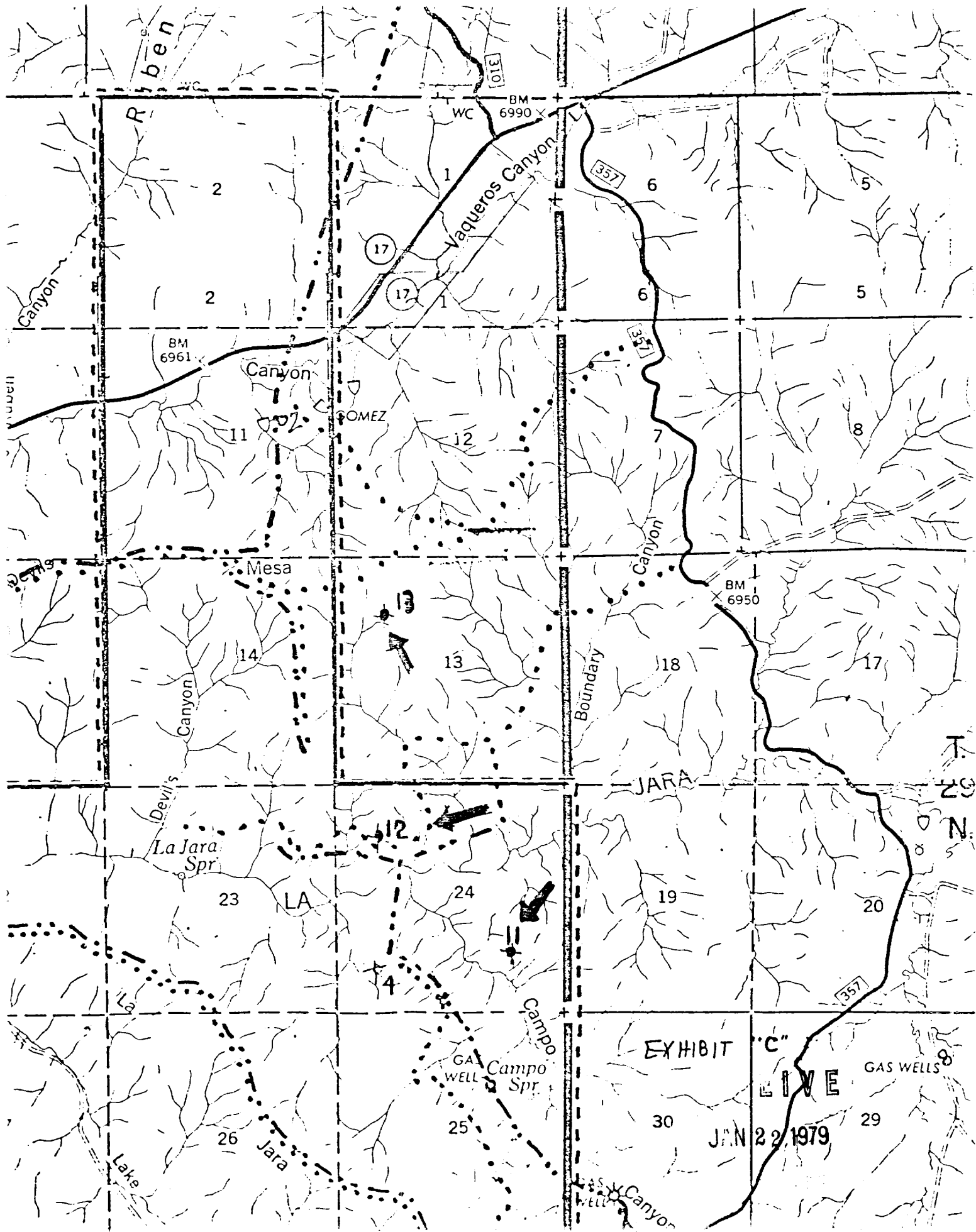
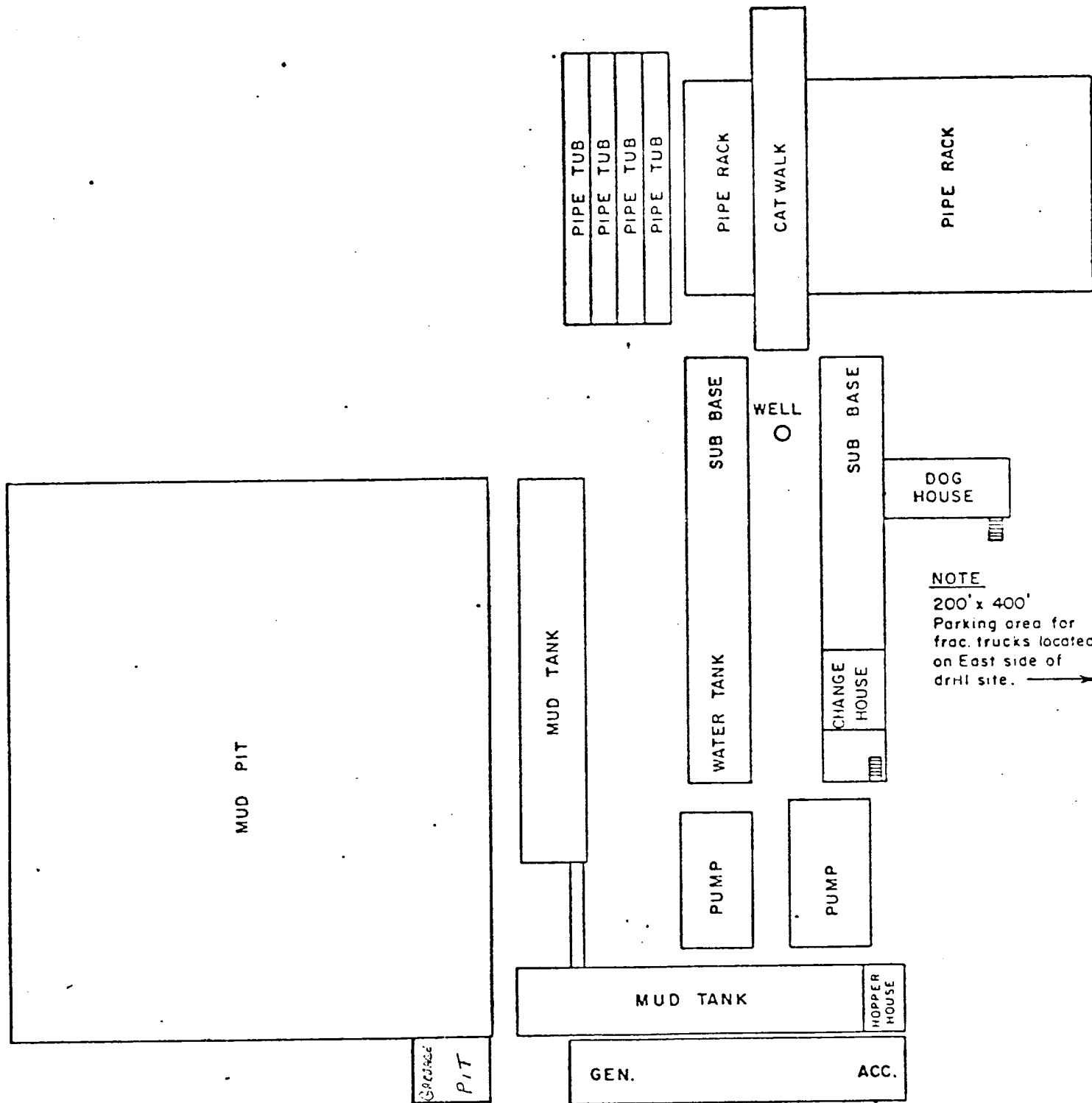


EXHIBIT "A"





NOTE
200' x 400'
Parking area for
frac. trucks located
on East side of
drill site. →

APPROX. RIG SITE DIMENSIONS
160' x 200'

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT
Casper, Wyoming



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RIG LAYOUT JAN 22 1979

EXHIBIT "D"

Engineer: ~~XXXXXXXXXX~~

Draftsman: ~~XXXXXX~~

Date: 1-4-73

Report 78-SJC-209
Permit 404-77/NM-084
A New Mexico
Service Permit

An Archaeological Clearance Survey of
Eight Proposed Wells and Access Routes
Conducted for Continental Oil Company

Submitted by,
Billy J. Naylor,
Coordinator and
Dabney Ford
Cultural Resource
Management Program
San Juan Campus
N. M. State University
25 October 1978

E I V E

JAN 22 1979

On October 19, 1978, Billy J. New Mexico State University's Cultural Resource Manager, San Juan Campus, conducted an archaeological clearance of proposed wells and access roads for Continental Oil Company at the request of Mr. Andrew Anderson of Continental Oil Company and Mr. McKinney of Atchison Construction Company.

Mr. Anderson, Mr. McKinney, and Mr. Fred Kerr of Kerr Land Survey were present during the inspections.

The proposed locations and access roads were inspected by walking transects over a 300 X 300 foot area for the location. The access routes were inspected by walking the length of each in a zig-zag pattern, under Federal Antiquities Permits, 404-77/NM-084 and New Mexico State University's Permit for New Mexico States National Forest Lands.

The most recent listings of the National Register of Historic Places have been consulted and no sites which appear on the Register and no sites which have been nominated to the Register occur on the Project area. The proposal complies with the provisions of the Historic Preservation Act of 1966 and with Executive Order 11593. It is recommended that archaeological clearance be given.

Proposed Well: CONTINENTAL OIL - JICARILLA 30 #16

Land Status: Jicarilla Apache Indian Reservation

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Total Area Inspected: 2.5 acres.

Terrain: Broken, rolling mesa top.

Soil: Sandy clay with sandstone boulders.

Vegetation: Piñon, juniper, sagebrush, narrow leaf yucca, broom snake-weed, blue grama.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: CONOCO 29-4 #13

Land Status: Carson National Forest - Jicarilla District

Location: 1740 feet from the north line and 1460 feet from the west line of Section 13, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 4).

Access: Width: 20 feet Length: 300 feet along ridge from north.

Total Area Inspected: 2.58 acres.

Terrain: Narrow point on Devil's Mesa. Rugged broken topography.

Soil: Sandy with sandstone boulders and outcrops.

Vegetation: Douglas fir, piñon, juniper, gamble's oak, mountain mahogany, prickly pear cacti.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

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Proposed Well: CONOCO 29-4 #11

Land Status: Carson National Forest

Location: 1090 feet from the south line and 990 feet from the east line of Section 24, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 5).

Access: 3000 feet long and 20 feet wide approaching the location from the south and using an existing road where possible.

Terrain: Broken drainage bottom and ridge slope with westerly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Clayey loamy sand.

Vegetation: Juniper, piñon, sagebrush, ponderosa pine, gamble's oak, snakeweed, rabbitbrush, prickly pear cacti, winterfat, blue grama, wheat grass, galleta.

Cultural Resources: None found.

Recommendations: Clearance is recommended.

Proposed Well: CONOCO 29-4 #12

Land Status: Carson National Forest

Location: 1180 feet from the north line and 990 feet from the west line of Section 24, Township 29 North, Range 4 West, N.M.P.M., in Rio Arriba County, New Mexico. (Figure 5).

Access: 600 feet long and 20 feet wide approaching the well from the north.

Terrain: Broken ridge top with westerly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Sandy clay loam.

Vegetation: Juniper, piñon, ponderosa pine, sagebrush, prickly pear cacti, blue grama, galleta, bitterbrush, snakeweed, aster.

Cultural Resources: Site SJC-391 was found on the southern edge of the original location. The location was moved approximately 250 feet north to completely avoid the site. See site report and map for details.

Recommendations: Clearance is recommended.

E I V E

JAN 22 1979

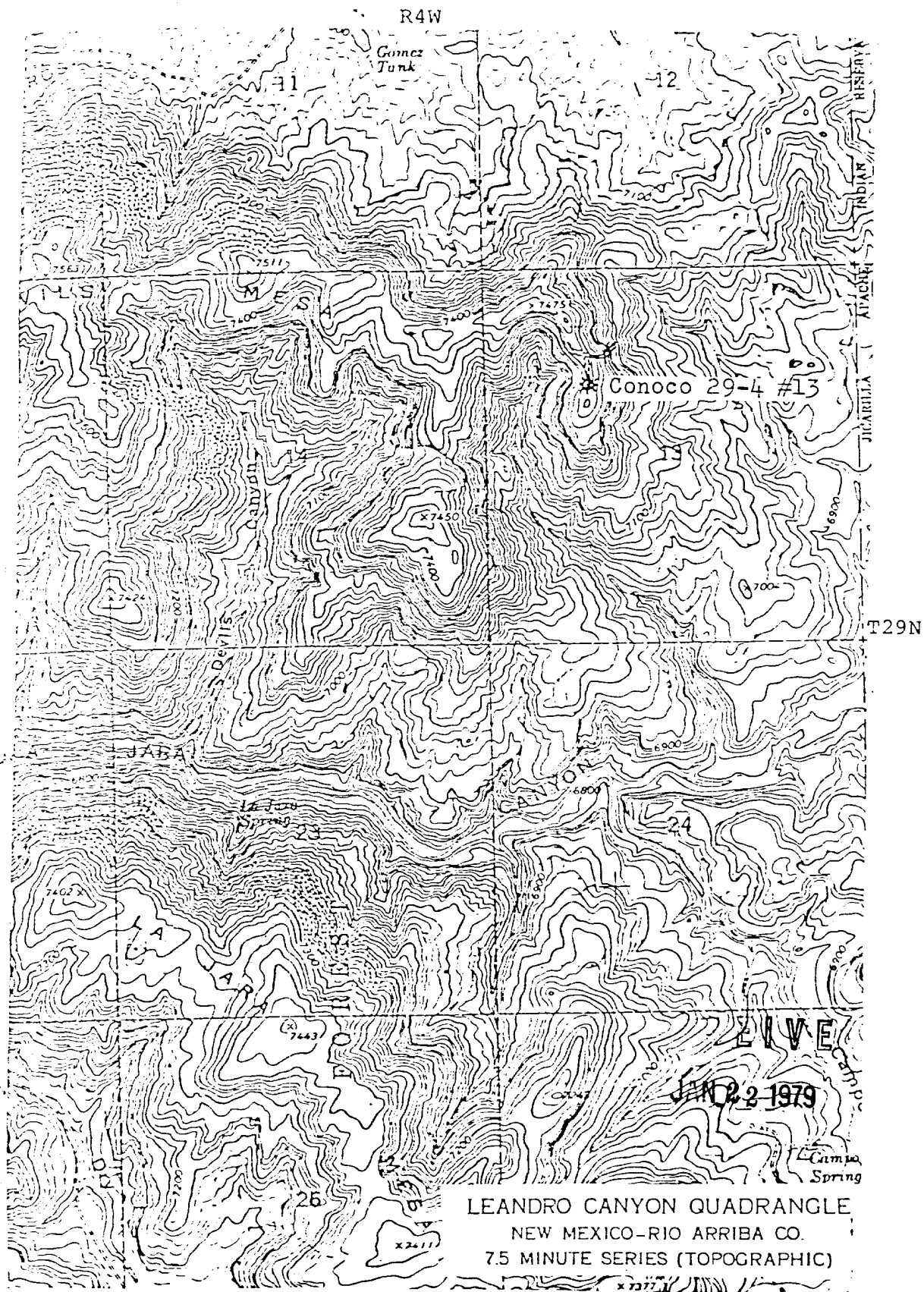


Figure 4