

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

CONTINENTAL Oil Company

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

H 2310' FNL & 990' FEL

At proposed prod. zone

SAME

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

CON. COM.
DIST. 3

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. 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.)

6892' GL

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"	1000'	550 sv
7 7/8"	5 1/2"	15.5" / 17"	6300' / 1320'	800 sv

It is proposed to drill a STRAIGHT HOLE TO A TD of 7620' and complete as a Gallup-Dakota oil well.

See attachment for 10 point well plan

See attached for 13 pt. surface use plan

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HOBBS, NEW MEXICO

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 12-20-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

USGS 6

BEA

M.J.L.

FILE

RELEASE FOLDER

*See Instructions On Reverse Side

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DURANGO, COLO.

1. The first part of the report is a general overview of the project. It describes the objectives, the scope, and the methodology used in the study. It also provides a brief history of the project and its significance.

2. The second part of the report is a detailed description of the results of the study. It includes a discussion of the data collected, the analysis performed, and the conclusions drawn. It also includes a comparison of the results with previous studies and a discussion of the implications of the findings.

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.

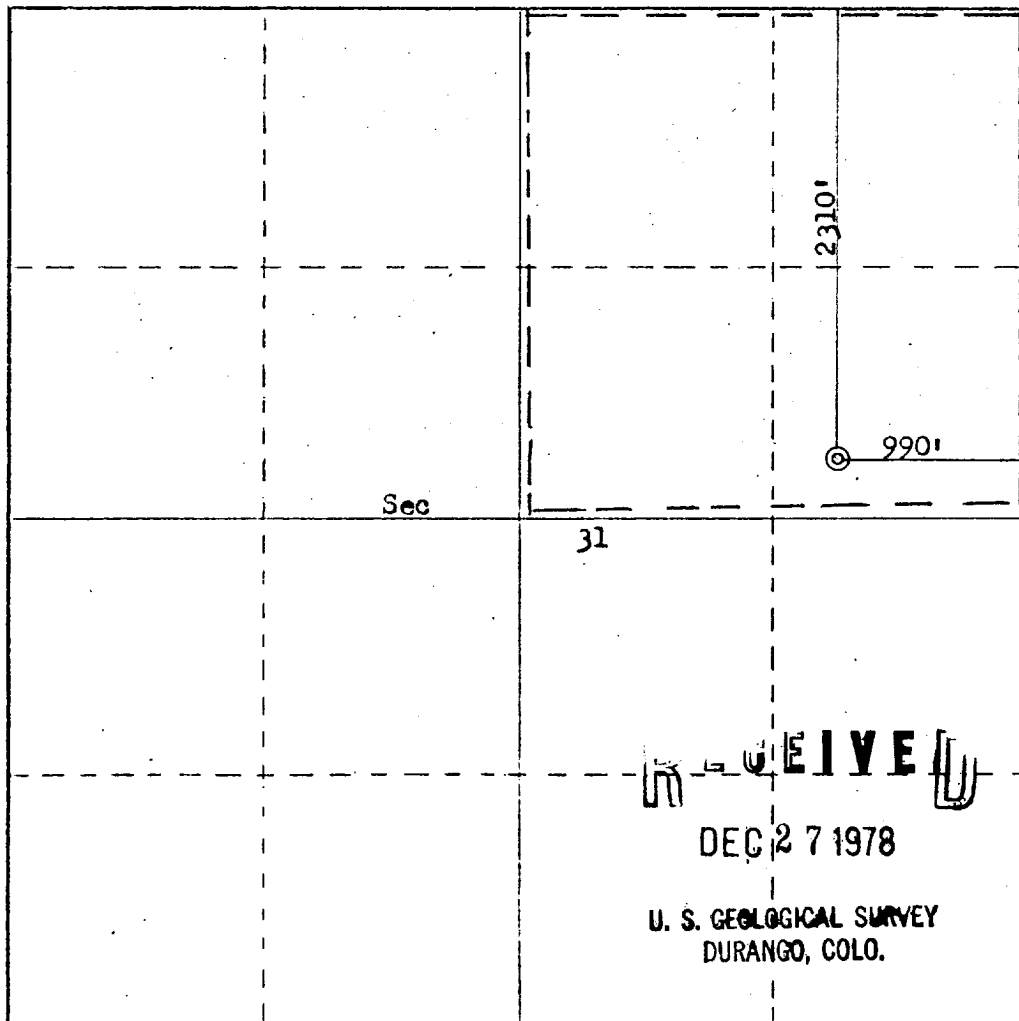
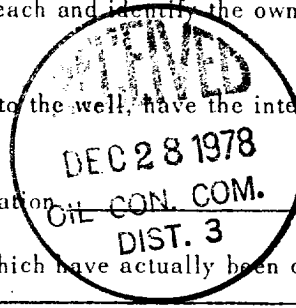
Operator CONTINENTAL OIL COMPANY			Lease JICARILLA 30		Well No. 14
Unit Letter H	Section 31	Township 25N	Range 4 SW	County RIO ARriba	
Actual Postage Location of Well:					
2310 feet from the North line and		990 feet from the East line			
Ground Level Elev. 6892	Producing Formation Gallup Dakota	Pool West Lindrtih Gallup Dakota	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. A. Butterfield
Position: Administrative Supervisor
Company: Continental Oil Co.
Date: 12-20-78

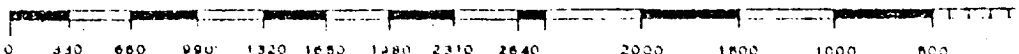
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Survey: August 22, 1978
Registered Professional Engineer and or Land Surveyor:
Fred B. Kerr Jr.
Certificate No. 3950

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DURANGO, COLO.



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

Continental Oil Company
Jicarilla 28 No. 17 and Jicarilla 30 Nos. 13, 14, and 15
T-25N, R-4W
Rio Arriba County, New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
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:

(See Proposed Well Plan Outlines)
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:

(See Proposed Well Plan Outlines)
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 (See Proposed Well Plan Outlines) and GR CAL CNL FDC PDC logs at selected intervals.
9. No abnormal pressure or temperatures are expected to be encountered in this well.
10. The anticipated starting date for the first well is November 15, 1978 with a duration date of approximately 21 days for each well.

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DURANGO, COLO.

WELL NAME: Jicarilla 30 #14

COUNTY: Rio Arriba

LOCATION: 2310' FNL & 990' FEL

STATE: NM

Sec. 31, T25N, R4W

EST. 6906 KB

EST. 6892GL

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
	Quaternary		GEOLOGRAPH 0-TD DEFLECTION 0-TD	12 1/4	8 5/8	1000'	-	-	8.5 TO 9.0	SPUD
1069										
2365	Ojo Alamo ss.	2200								
	Kirtland sh.	2680								
3303	Pic. Cliffs ss.	3000								
4035	Chacra ss.	3880								
5033	Mesa Verde ss.	4670 LOST CIRCULATION ZONE								
	Mancos sh.	5320	SP-IES TD-2800' 2" x 5"							
6000										
	Gallup ss.	6340	GR-CAL-FDC Selected Intervals (TD-2800) 2" x 5"							
7090	Dakota ss.	7230	PDC TD-6200'	7 7/8	5 1/2					
	J ss.	7370								
	M ss.	7470								
	TD.	7620								

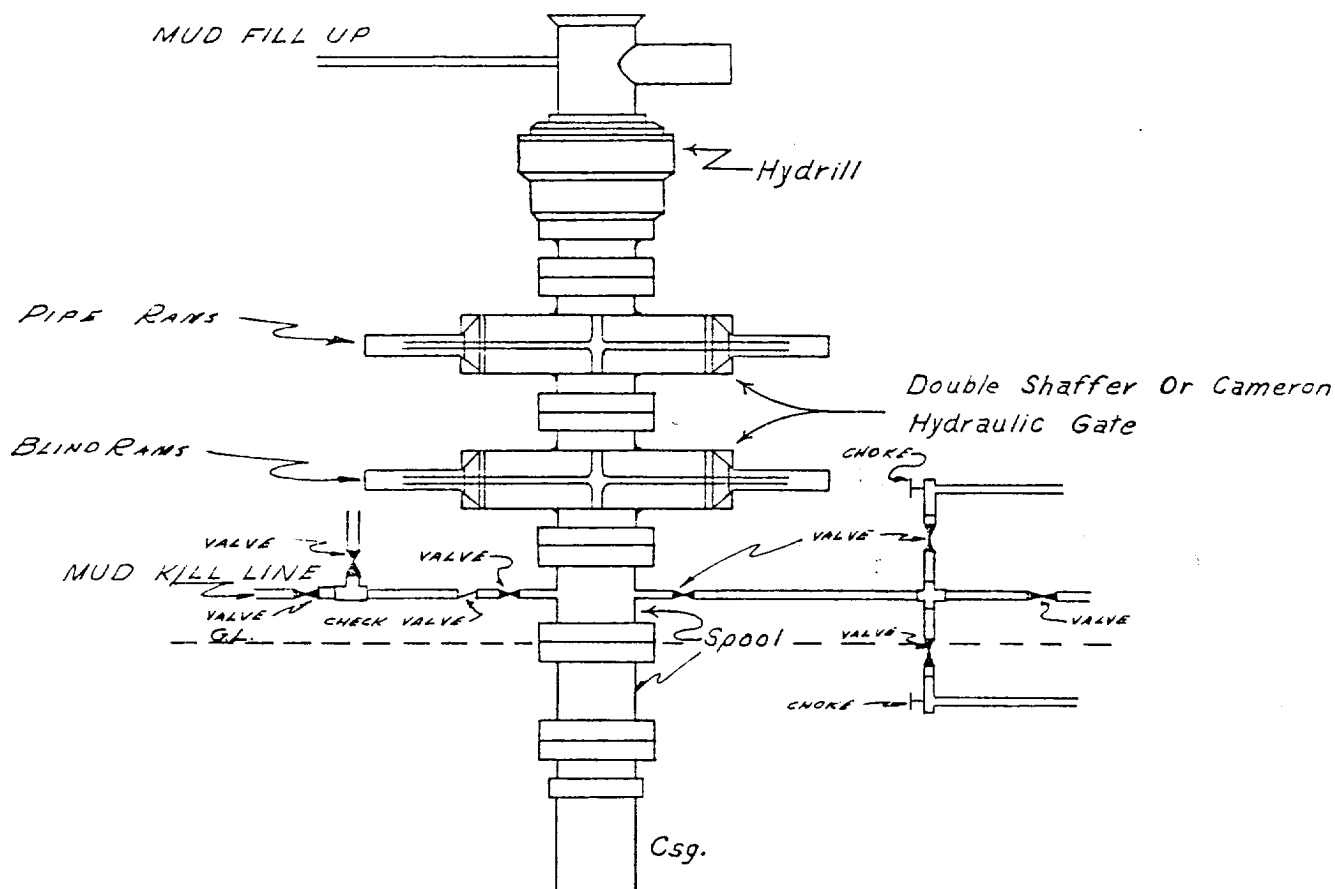
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U.S. GEOLOGICAL SURVEY
DURHAM, N.C.

FRESH WATER GEL (LOW SOLIDS)

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 MAY NOT BE USED.

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

SURFACE USE PLAN
Continental Oil Company
Jicarilla 28 No. 17 and Jicarilla 30 Nos. 13, 14, and 15
T-25N, R-4W
Rio Arriba County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject well. 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:

Jicarilla 28 No. 17 1830' FWL and 450' FSL of Section 28
Jicarilla 30 No. 13 450' FSL and 990' FEL of Section 31
→ Jicarilla 30 No. 14 2310' FNL and 990' FEL of Section 31
Jicarilla 30 No. 15 2070' FNL and 1980' FWL of Section 32

B. Exhibit "A" is a portion of a Jicarilla 28 and Jicarilla 30 lease map showing existing roads and proposed new road and location.

C. 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 "A"

4. Location of Existing and/or Proposed Facilities

A. Tank Batteries: Two 400 bbl. tank and a production unit will be located on each well site.

B. 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 locations. 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 Largo Wash. (See Exhibit "C")

6. Source of Construction Materials

Not applicable. Drilling pad to be compacted.

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7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Trash pit is shown on "Rig Layout", Exhibit "D". All detrimental waste will be buried with a minimum of 24" of dirt. See Exhibit "D" for location of pits.

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 barrel, 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. 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: Sandy loam
- C. Vegetation: Primarily sage, blue grama, occasional pinyon and Juniper, and various flowering herbs.
- D. Surface Use: Suitable for 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 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: None observed.

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DURANGO, COLO.

12. 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

E. L. Oshlo
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.

12-20-78

Date

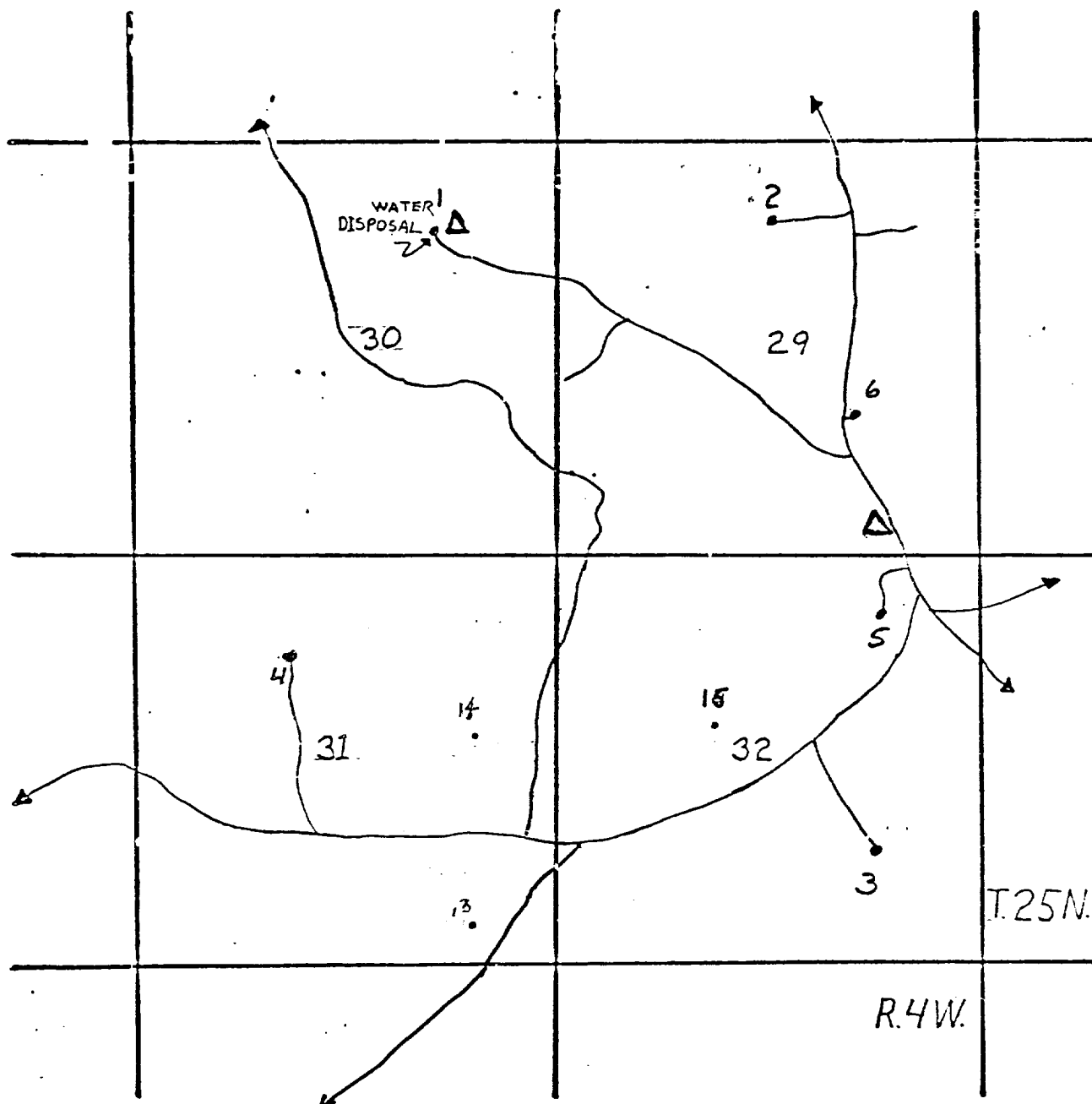
L. P. Thompson


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DURANGO, COLO.





PRODUCTION DEPT. HOBBS DIV.
 JICARILLA "30" LEASE

LEGEND

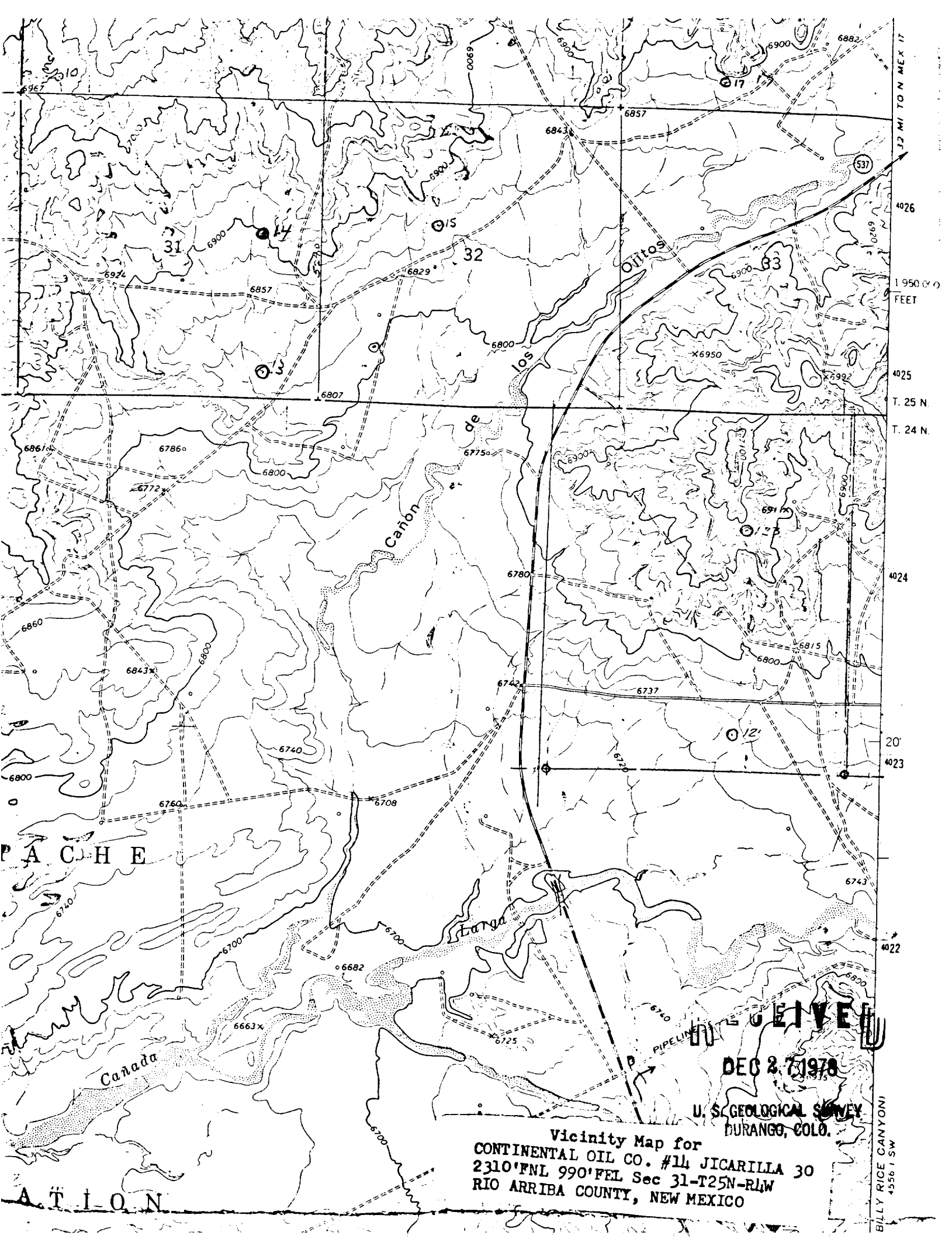
- CONOCO WELL
- △ TANK BATTERY
- LEASE ROAD
- HWY.

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DURANGO, COLO.

NTS
CHAVEZ



32 MI TON MEX 17

1950 FEET

4025

T. 25 N.

T. 24 N.

4024

20'

4023

4022

BILLY RICE CANYON!
4556' SW

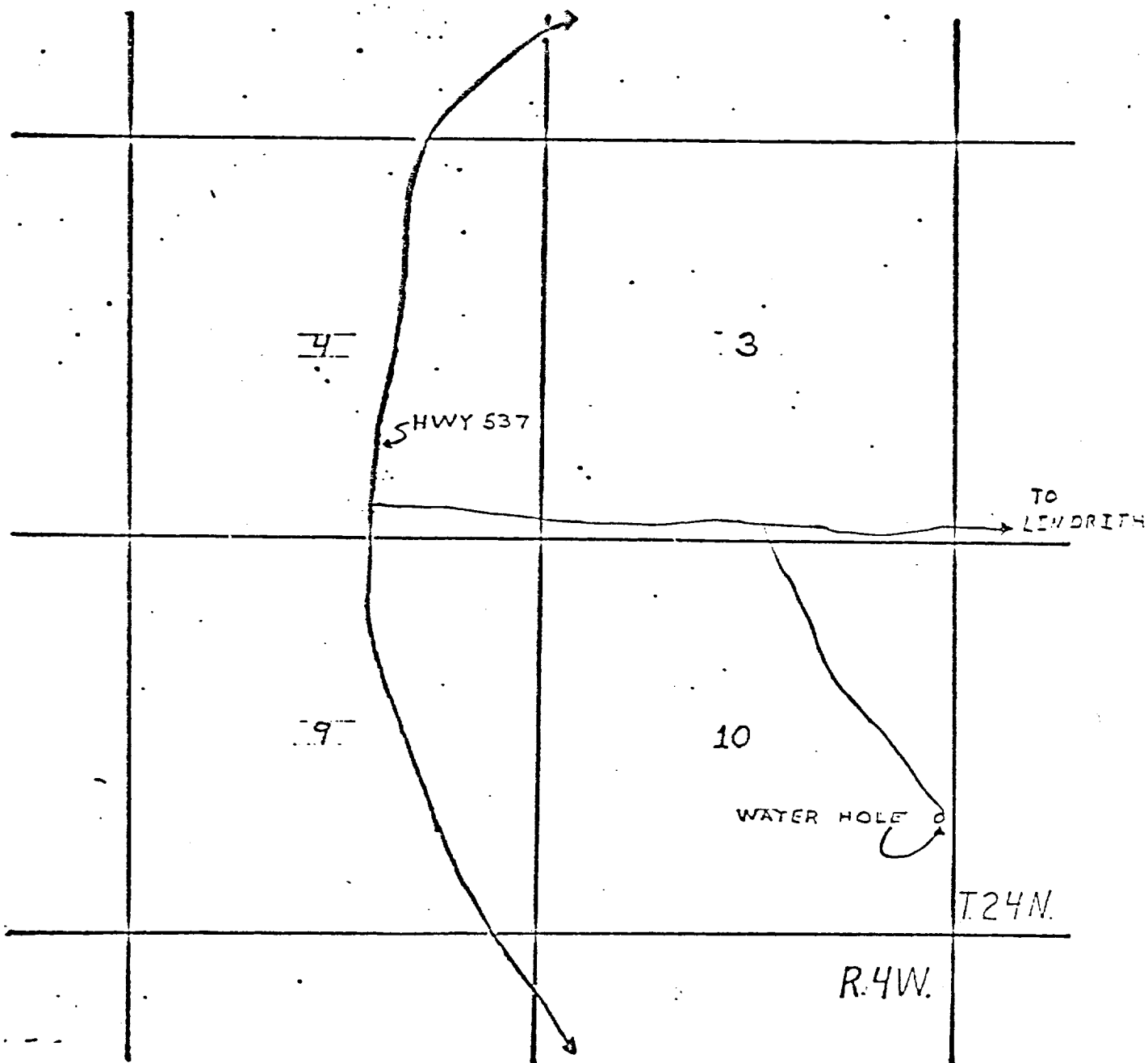
PACHE

A.T.I.O.N

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Vicinity Map for
CONTINENTAL OIL CO. #11 JICARILLA 30
2310' FNL 990' FEL Sec 31-T25N-R14W
RIO ARRIBA COUNTY, NEW MEXICO



CONOCO

PRODUCTION DEPT. HOBBS DIV.

LARGO WATER HOLE

LEGEND

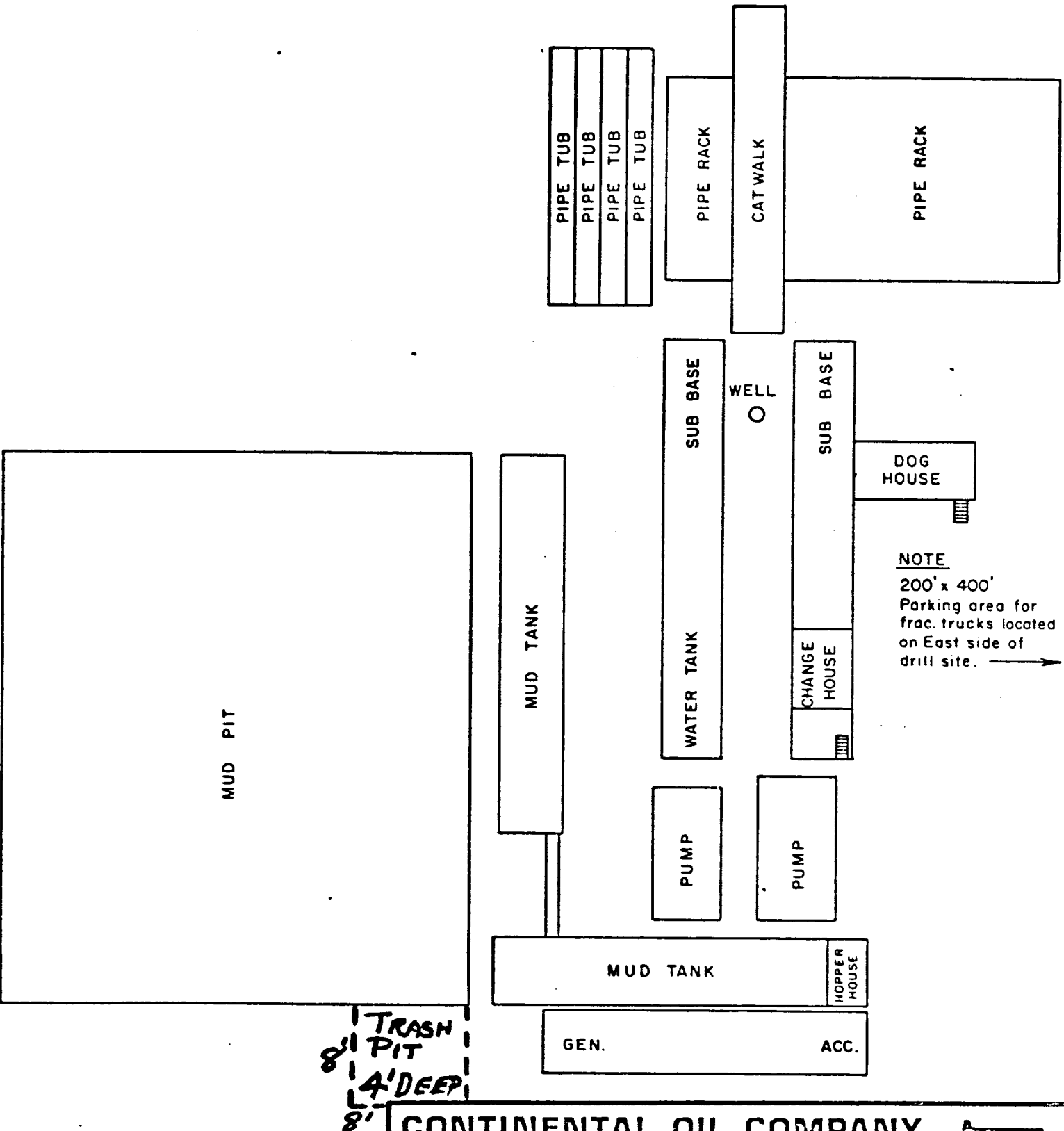
- CONOCO WELL
- △ TANK BATTERY
- LEASE ROAD
- HWY.

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U.S. GEOLOGICAL SURVEY
DURANGO, COLO.

EXHIBIT "C"

NTS
CHART



APPROX. RIG SITE DIMENSIONS
160' x 200'

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT

RIG LAYOUT
EXHIBIT "C"

DEC 27 1978
S. GEOLOGICAL SURVEY
DENVER, COLO.

Archaeological Clearance Survey Report
for
Continental Oil Company

Well Locations

~~Dec~~ Jicarilla 30-13
~~Feb~~ Jicarilla 30-14
~~Mar~~ Jicarilla 30-15
~~Nov~~ Jicarilla 28-17
~~May~~ AXI Apache N-19
~~May~~ AXI Apache N-18
~~Nov~~ AXI Apache N-16
~~April~~ AXI Apache N-17
~~April~~ AXI Apache J-33

Prepared by
John B. Schooley

Submitted by
Meade F. Kemrer, PhD.
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY DEC 27 1978

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Contributions to Anthropology Series, No. 84
San Juan County Archaeological Research Center and Library

August 23, 1978

Abstract

An archaeological clearance survey was performed on August 22, 1978 for Continental Oil Company by the Division of Conservation Archaeology of the San Juan County Archaeological Research Center and Library. The survey involved nine well pads and associated access roads on lands under the jurisdiction of the Jicarilla Apache Tribe.

Since the cultural resources found are not to be directly or indirectly impacted by the proposed construction, archaeological clearance has been recommended for all areas.

IN - 6 EIVE U

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Introduction

The Division of Conservation Archaeology of the San Juan County Archaeological Research Center and Library has completed an archaeological clearance survey for Continental Oil Company, on lands under the jurisdiction of the Jicarilla Apache Tribe. The lands are to be impacted by the construction of nine well pads and associated access roads.

The survey was initiated at the request of Mr. Joe McKinney of Achinson Construction Company, Incorporated, on August 18, 1978. It was administered by Mr. B.E. Anderson of Continental Oil Company and by Dr. Meade Kemrer of the Division of Conservation Archaeology.

Legislation enacted by the Congress of the United States requires compliance with laws designed to protect archaeological resources. Laws such as the National Environmental Policy Act of 1969 (PL 91-852) and Executive Order No. 11593 entitled "Protection and Enhancement of the Cultural Environment" prevent enterprises which might result in the destruction or alteration of cultural resources. Federal and State governments and the professional scientific community have come to realize that the material remains of a prior culture are a limited, non-renewable part of the environment. As such, the State of New Mexico has enacted legislation regulating archaeological resources. The Cultural Properties Act is analogous in content to the National Historic Preservation Act of 1966 (PL 89-665), which provides for preservation of significant archaeological sites.

The field work was performed by John Schooley, assistant archaeologist, of the Division of Conservation Archaeology on August 22, 1978, under the provisions of a Jicarilla Tribal Council Resolution passed on February 2, 1978. Also present in the field were: Mr. Joe McKinney of Achinson Construction; Mr. B.E. Anderson of Continental Oil Company; and Mr. Fred Kerr and Rich Weaver of Kerr Land Surveying.

Field Procedures

The requested archaeological clearance survey of the proposed well pads and access roads was inspected on foot and the area was covered in a criss-cross fashion. In addition to the search for historic /prehistoric artifacts and features, information pertaining to the environmental setting was described.

Survey

The requested archaeological survey involved nine well pads and associated access roads on lands under the jurisdiction of the Jicarilla Apache Tribe. For specific details of location, please see the attached topographic maps and the paragraph descriptions below.

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DURANGO, COLO.

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U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Jicarilla 30-13

Legal Description: 450' F/SL, 990' F/EL, Section 31, T 25N, R 4W, N.M.P.M., Rio Arriba County, New Mexico.

Map Source: U.S.G.S. 7.5' Otero Store Quadrangle.

Area Surveyed: 300'x 200' (well pad), 900'x 20' (access road).

Land Jurisdiction: Jicarilla Apache Tribe.

Description: The proposed well pad is located in a valley bottom. The terrain is flat with a 2° slope to the southwest. The soil is a sandy loam, approximately 60% exposed. The vegetation consists of sagebrush (Artemisia tridentata), blue grama (Bouteloua gracilis), prickly pear (Opuntia spp.), and various herbs and grasses. There is evidence of cattle grazing. The proposed access road originates from an existing road and proceeds west approximately 900 feet.

Cultural Materials: No cultural materials were noted.

Recommendations: Archaeological clearance is recommended.

Jicarilla 30-#14

Legal Description: 2310' F/NL, 990' F/EL, Section 31, T 25N, R 4W, N.M.P.M., Rio Arriba County, New Mexico.

Map Source: U.S.G.S. 7.5' Otero Store Quadrangle.

Area Surveyed: 300'x 200' (well pad), 1000'x 20' (access road).

Land Jurisdiction: Jicarilla Apache Tribe.

Description: The proposed well pad is located on the western slope of a hillside. The terrain has an open exposure and a 5° slope. The soil is a sandy loam with approximately 40% exposure. The vegetation is primarily tumbleweed (Salsola kali) with sagebrush, blue grama, and various grasses and herbs. A pinyon grove covers the hilltop immediately east of the well location. Grazing is evident. The access road proceeds northwest from an existing road approximately 800 feet.

Cultural Materials: A brown quartzite flake 50mm x 20mm x 10mm and two small white chalcedony waste flakes were noted in small erosional gullies which transect the access road approximately 400 feet southeast of the proposed pad. Upon extensive search of the area upland of the proposed access road, no site was located.

Cultural Significance: These artifacts appear to be derived from downslope washing from a site not in the area of the proposed construction.

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Recommendations: Archaeological clearance is recommended.

Jicarilla 30-#15

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Legal Description: 2070' F/NL, 1980' F/WL, Section 32, T 25N, R 4W, N.M.P.M., Rio Arriba County, New Mexico.

Map Source: U.S.G.S. 7.5' Otero Store Quadrangle.

Area Surveyed: 300'x 200' (well pad), 800'x 20' (access road).

Land Jurisdiction: Jicarilla Apache Tribe.

Description: The proposed well pad is located on an alluvial fan abutting a sandstone escarpment immediately north of the proposed well location. The soil is a sandy loam, approximately 50% exposed. There are numerous small erosional gullies draining south. The vegetation is sagebrush, blue grama, and various flowering herbs. Grazing is in evidence. The access road proceeds north from an existing road approximately 800 feet.

Cultural materials: On the sandstone face of the escarpment 200 feet north of the well pad location, there are numerous historic petroglyphs of names, places, and dates, eg. "Slavio Lucero, Del Gobernador, New Mexico, March 19, 1927." The names are both Hispanic and Anglo. The dates range from 1907 to the present.

Recommendations: Since the petroglyphs will not be affected by the proposed construction, archaeological clearance is recommended.

Jicarilla 28-#17

Legal Description: 1830' F/WL, 450' F/SL, Section 28, T 24N, R 4W, N.M.P.M., Rio Arriba County, New Mexico.

Map Source: U.S.G.S. 7.5' Otero Store Quadrangle.

Area Surveyed: 300'x 200' (well pad), 800'x 20' (access road).

Land Jurisdiction: Jicarilla Apache Tribe.

Description: The proposed well pad is located on an alluvial fan with a 10° slope to the south. A sandstone escarpment with eroding clay shale hills lies immediately north of the location. The soil is a sandy loam, approximately 50% exposed. The vegetation is primarily sage, blue grama, occasional pinyon (Pinus edulis) and juniper (Juniperus spp.), and various flowering herbs. There is evidence of grazing.

Cultural Resources: One small chalcedony waste flake was noted. Upon an extensive search of the area no further cultural artifacts were found.

4550
SCHMIT



NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR
CONTINENTAL OIL COMPANY

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2310' ENL + 990' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☒
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE

CONTRACT NO. 41

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

JICARILLA APACHE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

JICARILLA 30

9. WELL NO.

14

10. FIELD OR WILDCAT NAME

W. LINDRITH GALLUP DAKOTA

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

SEC. 31, T25N R4W

12. COUNTY OR PARISH

RIO ARriba

13. STATE

N.M.

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6892' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is proposed to change the casing plan on the
"APPLICATION TO DRILL" SUBJECT WELL FROM 1000', 8 5/8", 24" CIG
TO 500', 8 5/8", 24" CIG.

Subsurface Safety Valve: Manu. and Type

18. I hereby certify that the foregoing is true and correct

SIGNED W. A. Dutton TITLE Admin. Supv. DATE 1-10-79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

4365 DURANGO 5
BEA
MIL
FILE

*See Instructions on Reverse Side

RECEIVED
JAN 16 1979
OIL CON. COM.
DIST. 3
Set @ _____ Ft.

U. S. GEOLOGICAL SURVEY
F. L. ...