

30-039-21932

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

N 450' FSL & 1830' FWL OF SEC. 28
 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 drig. unit line, if any)

16. NO. OF ACRES IN LEASE
 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160 joint

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

19. PROPOSED DEPTH
 8000'

20. ROTARY OR CABLE TOOLS
 ROTARY

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

6882' GR

22. APPROX. DATE WORK WILL START*

Nov. 15, 1978

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 sx
7 7/8	5 1/2	15.5 to 17.0 #	7750'	770 sx

It is proposed to drill a straight hole to a total depth of 8000' and complete as an Gallup Dakota oil well.

see attached for MUD and B.O.P. programs

see attached for Proposed Well Plan for formation tops, logging, etc..

acreage is dedicated to a gas purchaser



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 Robert A. Lee TITLE ADMINISTRATIVE SUPERVISOR DATE 9-11-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

RECEIVED

APPROVED BY oh Frank TITLE _____ DATE SEP 29 1978

CONDITIONS OF APPROVAL, IF ANY:

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

*See Instructions On Reverse Side

4666 DURANGO [6], BEA, FILE, EIPaso, MJL

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-1
Supersedes O-120
Effective 1-1-77

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

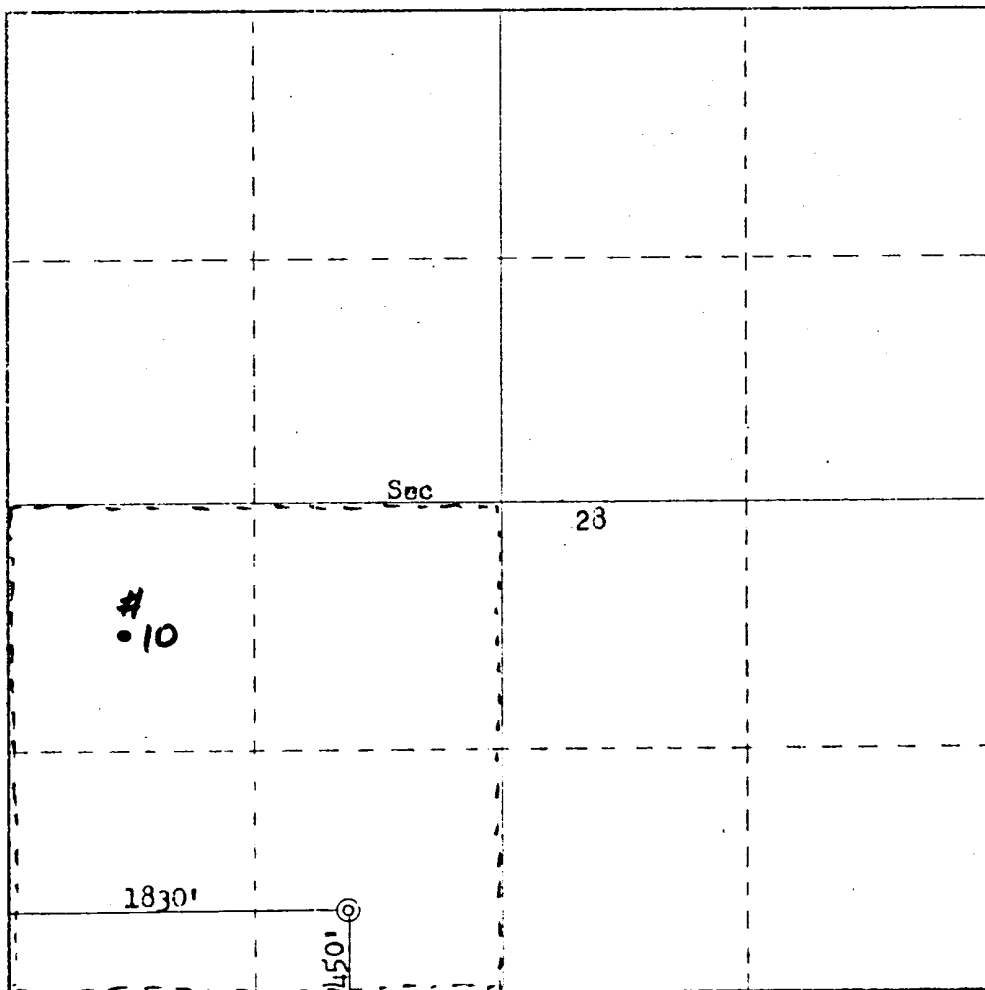
Operator CONTINENTAL OIL COMPANY		Lease JICARILLA 28		Section 17
Grid Letter N	Section 28	Township 25N	Range 4W	County RIO ARRIBA
Actual Footprint (center of well) 450 feet from the South		Line out 1830 feet from the West		Line
Ground Level Elevation 6882	Producing Formation Gallup Dakota	Pool West Lindrith Gallup Dakota	Dedicated Acreage 160 joint	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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
Ben A. Lee
Position
Administrative Supervisor
Continental Oil Company
Date
Sept 26, 1978

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
August 22, 1978
REGISTERED LAND SURVEYOR
Fred B. Kerr Jr.
Fred B. Kerr Jr.
3950

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.

PROPOSED WELL PLAN OUTLINE

WELL NAME: Jensen 28 11/17

COUNTY: Red River

LOCATION: 45 1/2 165th Ave

STATE: ND

Sec. 28, T157N, R11W

EST. KB 6897
GL 6880

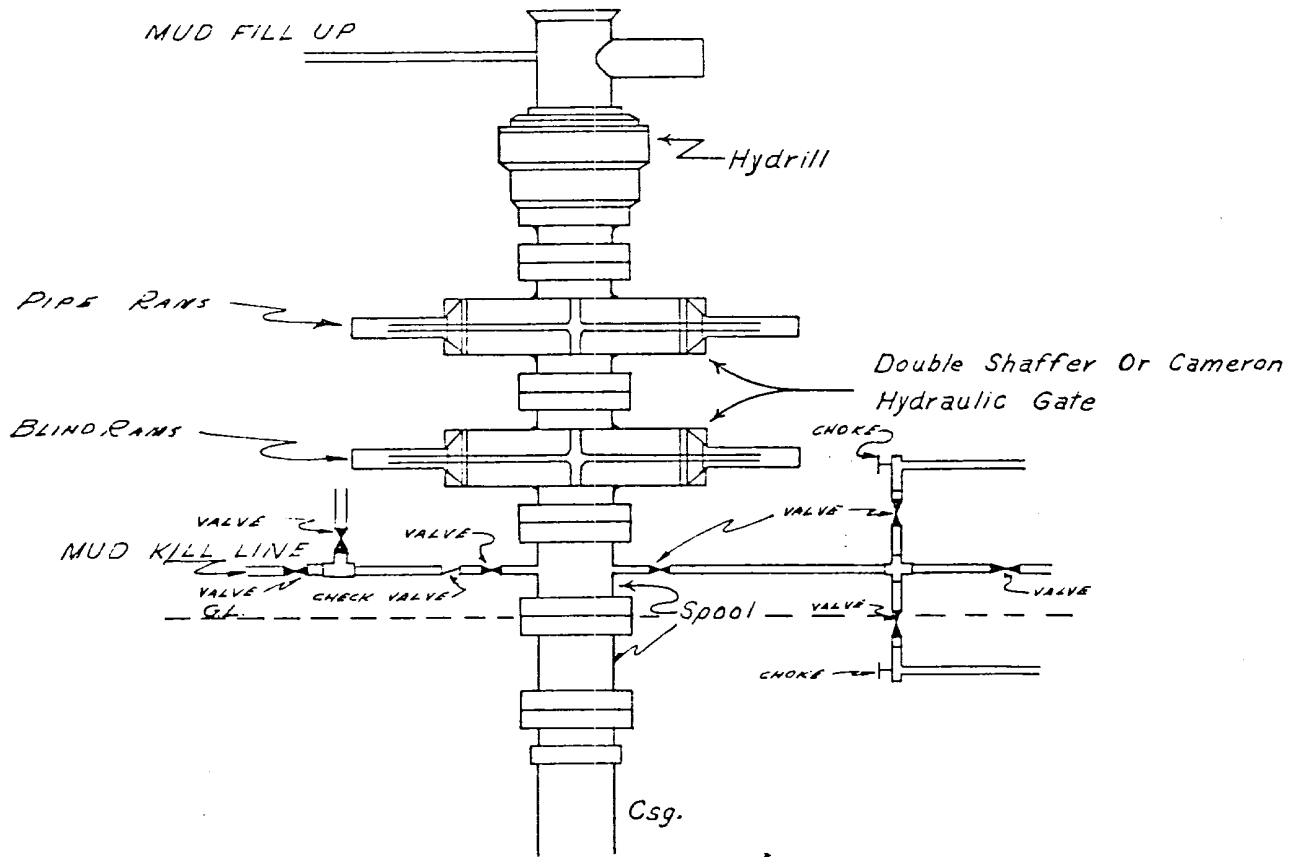
DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE (IN)	CASING		FRACTURE PRESSURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE (IN)	DEPTH (FT)			WEIGHT (PPG)	TYPE
			SECIOBFI O-TO							
			SECIOBFI O-TO	1 7/8	8 1/2	000			8.5 9.0	SP
	Ojo Alamo ss.	2260								
	Kirtland sh.	2810								
	Pictured Cliffs ss.	3110								
	Chaco ss.	4020								
	Mesa Verde ss.	4210	POSSIBLE LOST CIRCULATION ZONE							
	Mancos sh.	5420	SP-IES TD-2900' 2" #5"							
	Gallus ss.	6420	GR-CAL-FDC Selected Intervals (TD-2900) 2" #5"							
	Dakota D ss.	7350								
	" J "	7500								
	" M "	7600								
	TD 7750		PDC Selected Intervals	7 1/8	5 1/2	7750	13.0 TO 14.0	LESS TO 2.5	8.5 TO 9.0	FR WA SE /LL SO

Date

1/16/16

Prepared by

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.

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.

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.

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

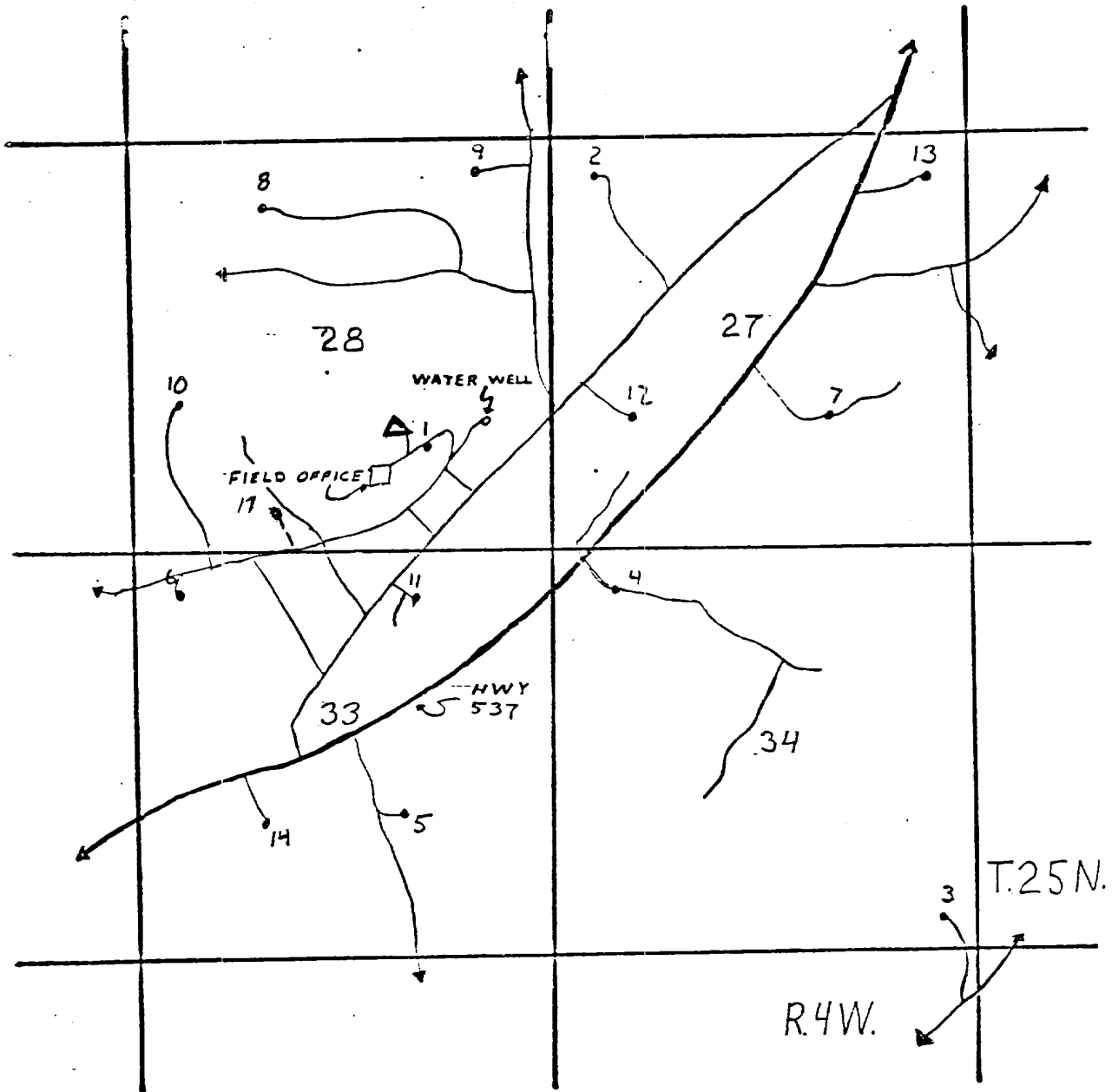
13. Certification

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.

Sept. 26, 1978
Date

L. P. Thompson
Division Manager

bnp



CONOCO

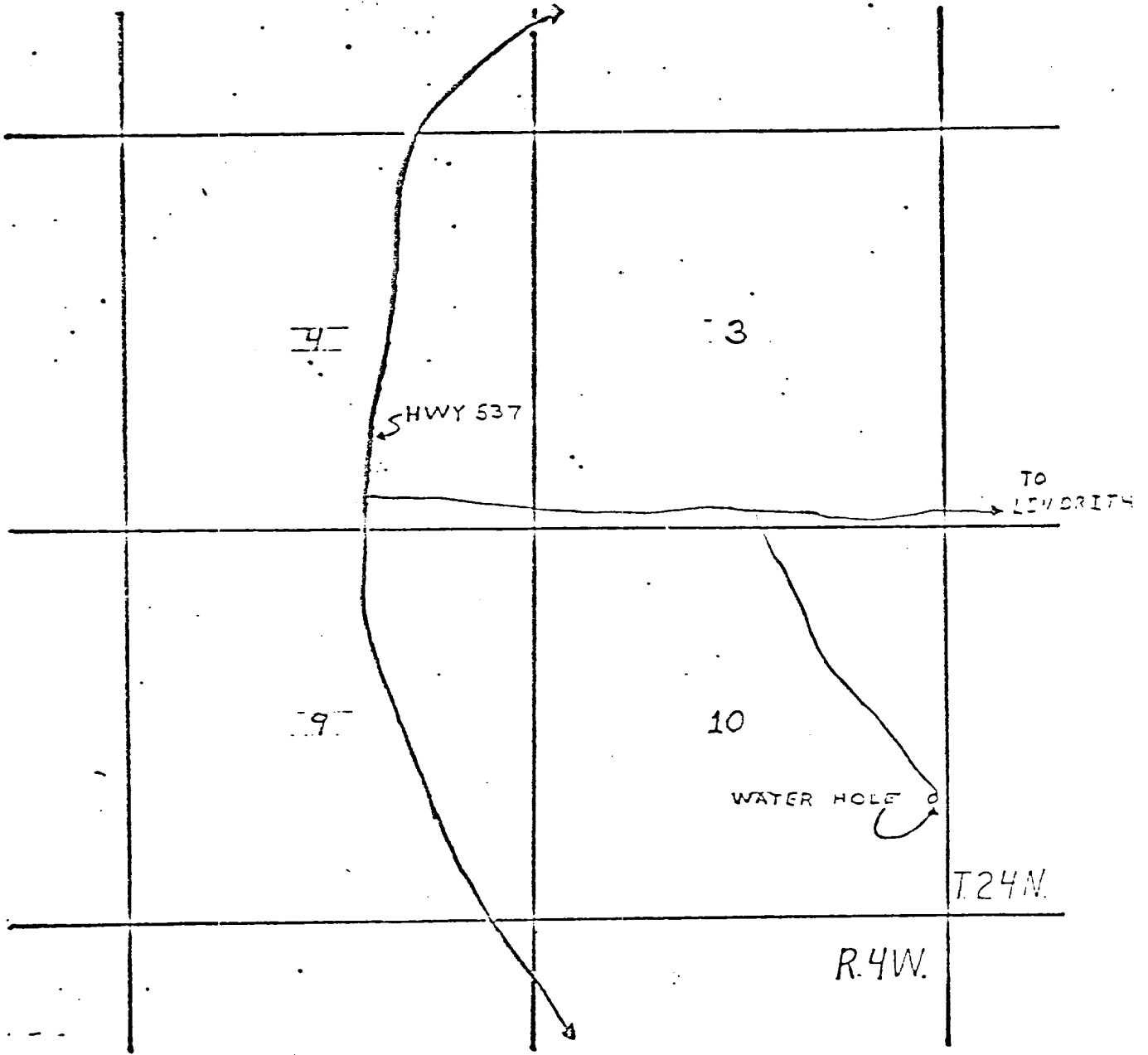
PRODUCTION DEPT. HOBBS DIV.
JICARILLA "28" LEASE

LEGEND

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

Exhibit A

**NTS
CHAVEZ**

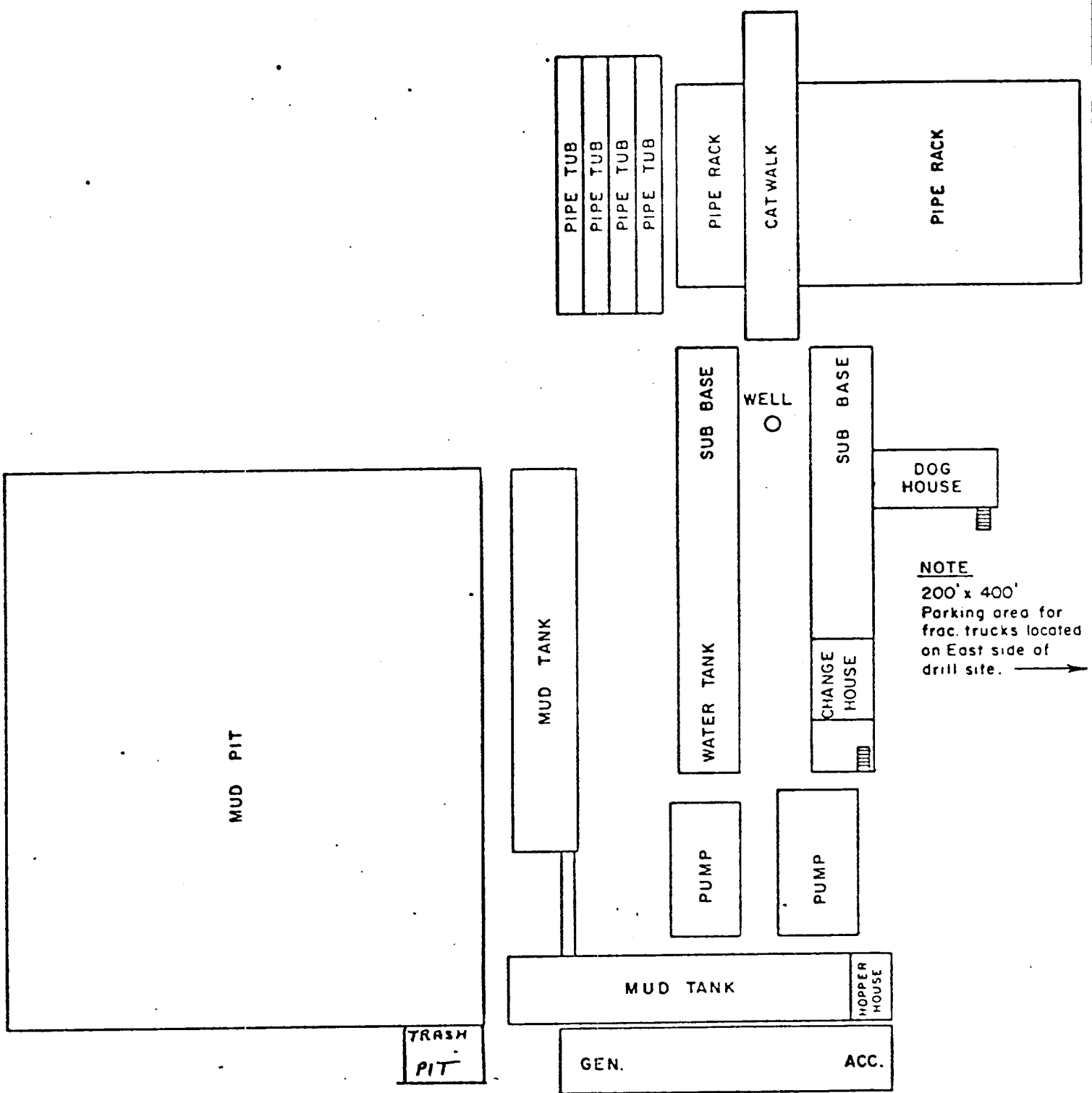


CONOCO
 PRODUCTION DEPT. HOBBS DIV.
 LARGO WATER HOLE

LEGEND
 • CONOCO WELL
 ▲ TANK BATTERY
 — LEASE ROAD
 — HWY.

EXHIBIT C


NTS
 CHART



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



RIG LAYOUT

Archaeological Clearance Survey Report

for

Continental Oil Company

Well Locations

~~30-13~~ Jicarilla 30-13
~~30-14~~ Jicarilla 30-14
~~30-15~~ Jicarilla 30-15
~~30-17~~ Jicarilla ~~30~~-17
~~AXI~~ AXI Apache N-19
~~AXI~~ AXI Apache N-18
~~AXI~~ AXI Apache N-16
~~AXI~~ AXI Apache N-17
~~AXI~~ AXI Apache J-33

Prepared by

John B. Schooley

Submitted by

Meade F. Kemrer, PhD.
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

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, 1975 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.

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.

Recommendations: Archaeological clearance is recommended.

Jicarilla 30-#15

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.

Cultural Significance: The flake appears to be an isolated artifact derived from downslope washing.

Recommendations: Archaeological clearance is recommended.

AXI Apache N-#19

Legal Description: 1500' F/SL, 850' F/WL, Section 12, T 25N, R 4W, N.M.P.M., Rio Arriba County, New Mexico.

Map Source: U.S.G.S. 7.5' Schmitz Ranch Quadrangle.

Area Surveyed: 300'x 200' (well pad), 400'x 20' (access road).

Land Jurisdiction: Jicarilla Apache Tribe.

Description: The proposed well pad is located in a valley bottom. The terrain has an open exposure and slopes 2° to the south. There is an arroyo approximately 100 feet east of the location which drains to the south. The soil is a dark brown loam. The vegetation consists of sagebrush, tumbleweed, blue grama, and various flowering herbs. Cattle graze the area.

Cultural Resources: A pile of 5 logs, approximately six feet long and eight inches in diameter lies approximately 150 feet north of the well pad stake. Upon further inspection no architectural features were noted.

Cultural Significance: The logs do not appear to be part of any structure and appear to be recent in age.

Recommendations: Archaeological clearance is recommended.

AXI Apache N-#18

Legal Description: 1150' F/NL, 1545' F/WL, Section 12, T 25N, R 4W, N.M.P.M., Rio Arriba County, New Mexico.

Map Source: U.S.G.S. 7.5' Schmitz Ranch 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 the southern edge of a mature pinyon grove. The terrain slopes approximately 5° to the south. The soil is a sandy loam, approximately 50% exposed. The vegetation is pinyon, sagebrush, blue grama, and various grasses and herbs. Grazing is evident.

Cultural Materials: No cultural materials other than modern refuse was noted.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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: 450' FSL + 1830' PWL
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 <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
CONTRACT NO. 66

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla 28

9. WELL NO.
17

10. FIELD OR WILDCAT NAME
W. Lind Gal-Dak

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC 28 T 25N R 4W

12. COUNTY OR PARISH | 13. STATE
Kincaid | NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6882' 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.)*

due to circulation problems, it is proposed to set 85/8" SURFACE CSG at the present depth of 630', per vertical approval of Carl Parrish



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Walter A. Butterfield TITLE Admin. Supv. DATE 1-5-79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

OK
2565 Durango 5
BEA
MJJ
EI PASO