

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

Oklahoma Oil Company

3. ADDRESS OF OPERATOR

1120 One Energy Square, 4925 Greenville Ave. Dallas, TX 75206

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

At surface

1730' FNL & 975' FWL

At proposed prod. zone

same

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

30 miles south of Farmington, NM

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

975'

16. NO. OF ACRES IN LEASE

159.92

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

N/A

19. PROPOSED DEPTH

1200

17. NO. OF ACRES ASSIGNED
TO THIS WELL

159.92

20. ROTARY OR CABLE TOOLS

rotary

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

6097 GL

22. APPROX. DATE WORK WILL START*

10-28-77

23.

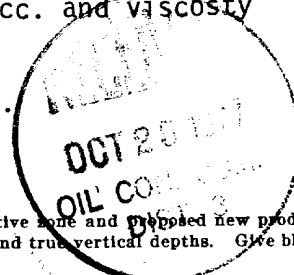
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
7 7/8	5 1/2	15.5	30'	10 sacks
4 3/4	2 7/8	6.4	1200'	100 sacks

Move in - rig up rotary tool. Drill 7 7/8" hole to 30'. Run one joint of 5 1/2 casing and cement as above. Drill 4 3/4 " hole to 1200'. Run open hole logs (IES, FDC-CNL). If well is commercial 2 7/8" casing will be run and cemented as above. If well is non-commercial, same will be plugged and abandoned as per U.S.G.S. specifications.

No abnormal pressures or temperatures are anticipated. Mud will have the following characteristics. Wt. 8.9-9.2# per gallon WL - 10-20 cc. and viscosity 30-45.

Gas under this lease is not dedicated to an existing contact.



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

William T. Jones
William T. Jones

TITLE

Agent

DATE

10-20-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

OK

RECEIVED

OCT 21 1977

U. S. GEOLOGICAL SURVEY

*See Instructions On Reverse Side

**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.

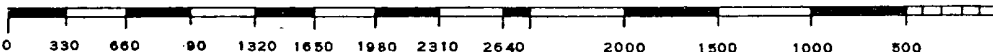
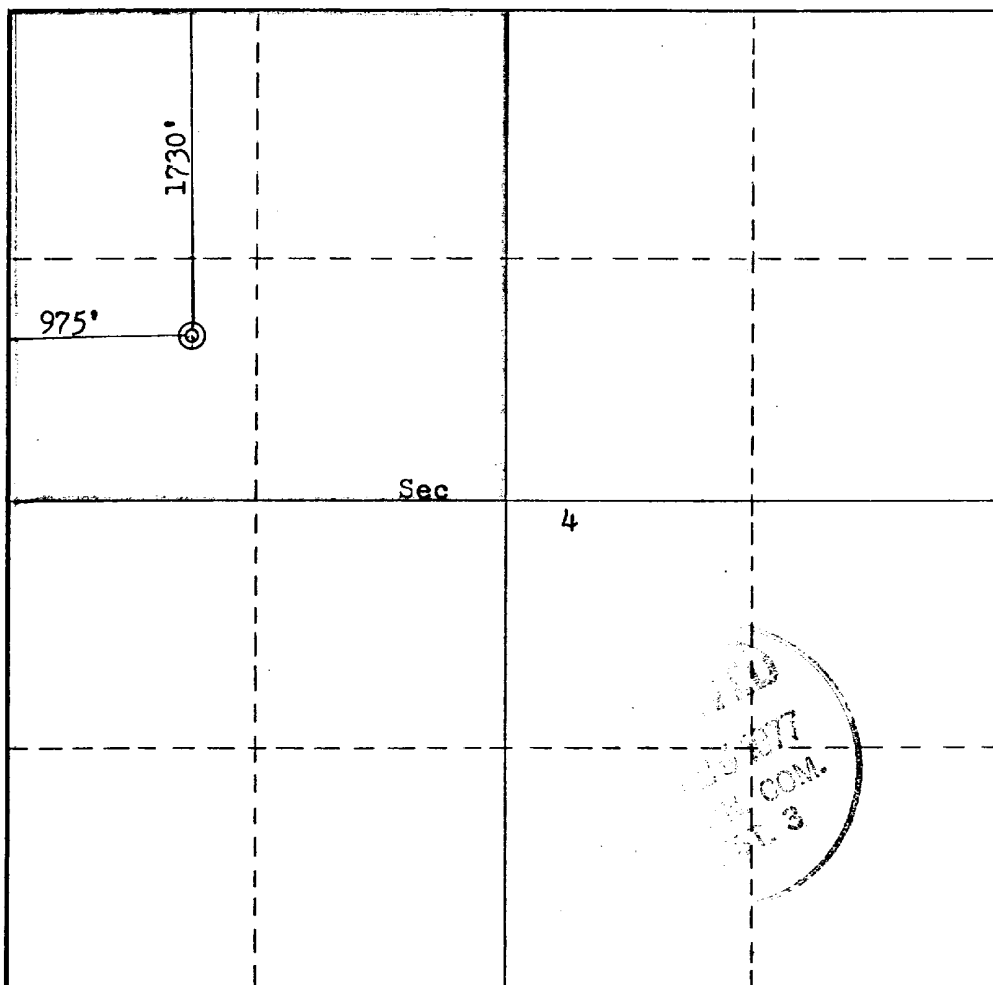
Operator Oklahoma Oil Company			Lease Navajo 4		Well No. 1
Unit Letter E	Section 4	Township 25N	Range 12W	County San Juan	
Actual Footage Location of Well:					
1730		feet from the North	line and 975	feet from the West	line
Ground Level Elev. 6097	Producing Formation Pictured Cliff		Pool Nipp Pictured Cliff	Dedicated Acreage: 160 159.93 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.

William T. Jones
Name
William T. Jones

Position
Agent

Company
Oklahoma Oil Company

Date
October 20, 1977

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.

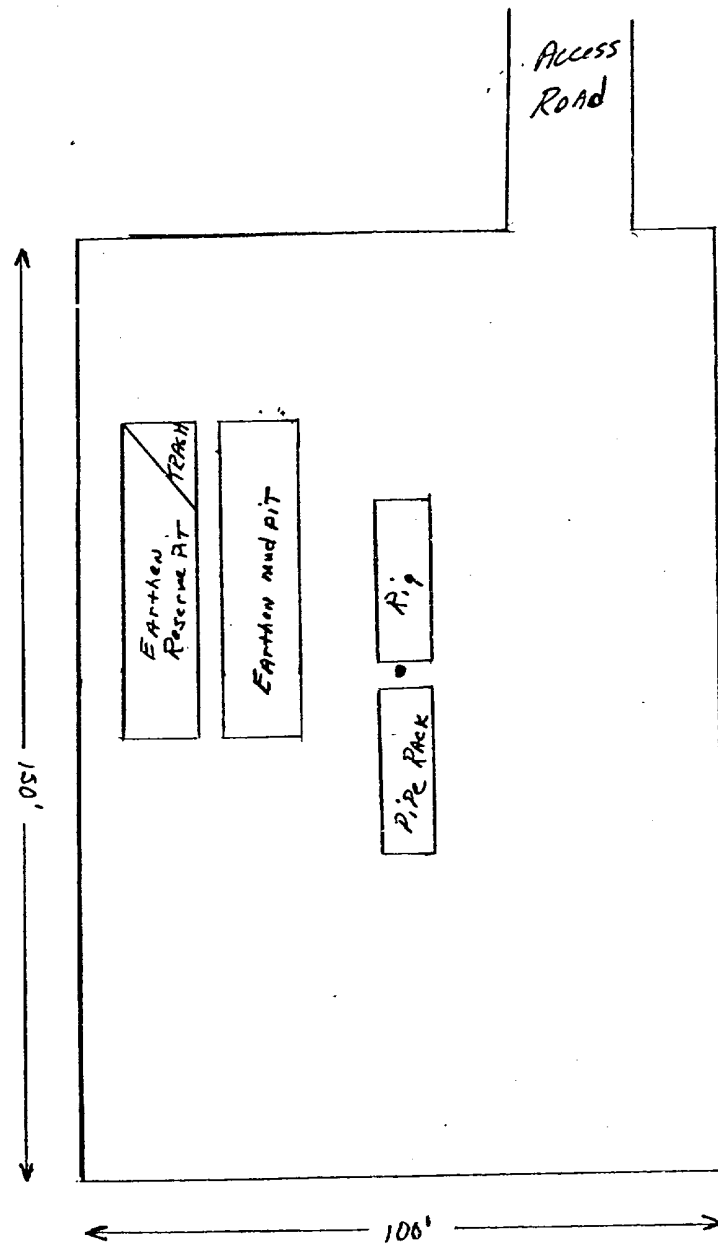
Date Surveyed
October 15, 1977

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

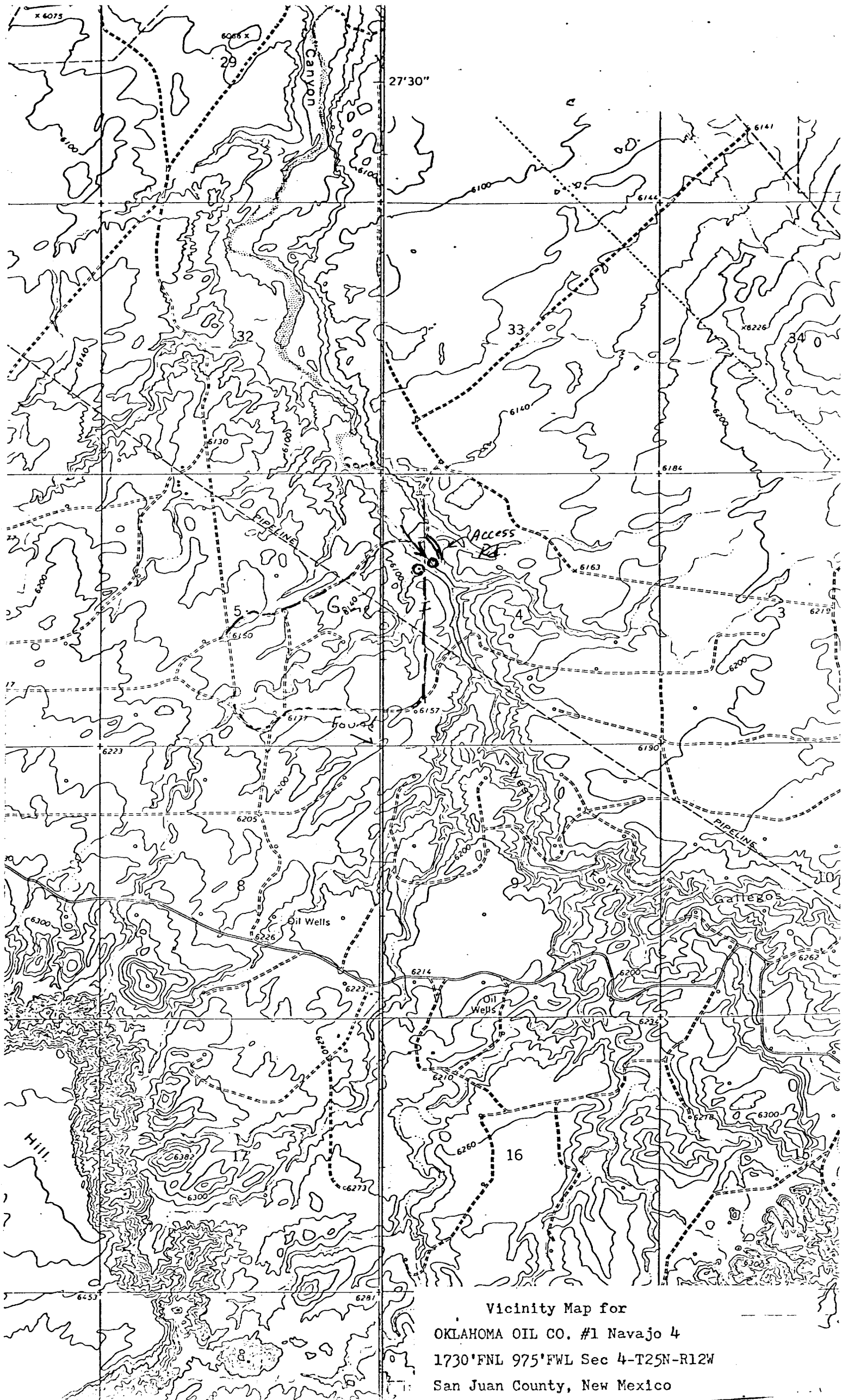
Certificate No.
3950

Well Site Plat



Scale 1" = 30'

OKLAHOMA OIL COMPANY
NAVAJO 4 #1
1730' FNL & 975' FWL
Sec 4, T25N, R12W
San Juan County, New Mexico



3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 —:— 505/327-4020

FARMINGTON, NEW MEXICO 87401

October 20, 1977

U.S. Department of Interior
Geological Survey
P.O. Box 959
Farmington, NM 87401

Attention: Mr. P. T. McGrath
District Engineer

RE: Development Plan for Surface Use
Oklahoma Oil Company
Navajo 4 #1
1730' FNL & 975' FWL
Sec 4, T25N, R12W
Nipp Pictured Cliff
San Juan County, New Mexico

Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the subject well. Also enclosed are the following items: surveyor's plat, drill site plat, vicinity map and archaeologist's report. The location has been inspected by the following personnel: Sally Greiser of the Agency of Conservation Archaeology and Mr. Ray Foster of the U.S.G.S.

The development plan for surface use is as follows:

Points 1, 3, 4, 6, & 9 Vicinity map and drill site plat attached.

Point 2. Water bars will be used on all roads where necessary.

Point 5. Water for drilling will be trucked from the San Juan River approximately 30 miles to the north.

Point 7. A waste disposal pit will be provided for the garbage and trash. Location shown on drill site plat. Drilling fluids will be contained in reserve pit until such time as evaporation occurs and then pits will be covered.

Point 8. No camps or airstrip.

Point 10. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled and well site reseeded in compliance with current Bureau of Land Management seeding requirements. During dry out time required for the reserve pit it will be fenced to eliminate livestock entry.

Point 11. The general topography is rolling hills with dry wash traversing the lease on a northwest-southeast strike. The location is 75 feet from the edge of the wash. Vegetation is normal for the area with no trees present.

Point 12. William T. Jones
3E Company, Inc.
P.O. Box 190
Farmington, NM 87401
Phone: 505-327-4020

Point 13. 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 the 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 Oklahoma Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

October 20, 1977

William T. Jones
William T. Jones Agent

Should further information be desired, please advise.

Yours very truly,

William T. Jones
William T. Jones

WTJ:st

Attachments

Archaeological Clearance Survey Report
for
3E Company, Inc.

Locations

#1 Navajo
#1 Navajo 4
#1 Navajo 6

Prepared by
Sally T. Greiser

Submitted by
Dr. J. Loring Haskell
Operations Director and
Principal Investigator
Agency of Conservation Archaeology

October 21, 1977

Introduction

The Agency of Conservation Archaeology of the San Juan County Museum Association and Eastern New Mexico University recently completed archaeological surveys on lands south of Farmington, New Mexico to be impacted by the proposed construction of 2 well pads and associated access roads by Oklahoma Oil Company represented by 3E Company of Farmington. Also completed was a survey of a single well location northwest of Shiprock, New Mexico proposed by Renaissance Resources Inc. and also represented by 3E Company.

The survey project was initiated at the request of Mr. Bill Jones of 3E Company on October 18, 1977. It was administered by Mr. Jones and Dr. J. Loring Haskell of the Agency of Conservation Archaeology in Portales.

The field work was conducted by Sally T. Greiser of the Agency of Conservation Archaeology (ACA) on October 19, 1977 under provisions of Federal Antiquities Permit No. 77-NM-030 which expires December 31, 1977. Representing 3E Company in the field was Bill Jones. Also present in the field were Ray Foster of the U.S. Geological Survey, Jim Hill of Allen Construction, and Bill Sims and Leonard Feller of the Bureau of Indian Affairs (#1 Navajo only).

Survey

The requested archaeological clearance survey involved three gas well pads and three access roads described below and located on lands under the jurisdiction of the Navajo Tribe. For specific details of location, please see the attached topographic maps.

The general survey procedure employed was to walk the area of the proposed construction in 15 meter transects. Visual inspection was made of the ground surface for evidence of any artifactual remains of historic or prehistoric origin. Erosional gullies were checked for accumulations of cultural materials as a result of slope wash activity. Floral, faunal and geological observations were made to briefly describe the environmental situation.

#1 Navajo (Renaissance Resources)

Legal description: 1600' F/SL 1540' F/WL NE $\frac{1}{4}$ of SW $\frac{1}{4}$ of NE $\frac{1}{4}$ of Sec. 29 T31N R18W N.M.P.M. San Juan County, New Mexico.

Map source: U.S.G.S. 15' series, Rattlesnake Quadrangle

Area surveyed: (road) approx. 500' (pad) 150' x 300'

Description: The well location is situated on a gravel terrace approximately one mile northeast of the San Juan River. The area has been disturbed by vehicles driving across the terrace presumably to gain access to the extensive gravel/cobble deposits to the north and east of the well location. The area has also been used for sheep grazing. The light tan sandy loam on the terrace supports minimal vegetation including the following species: fourwing saltbush (Atriplex canescens); tumbleweed (Salsola kali); desert saltgrass (Distichlis stricta); and mesa dropseed grass (Sporobolus flexuosus). Rabbitbrush (Chrysothamnus nauseosus) occurs along the proposed access road which cuts down through

the gravel and onto a lower terrace which supports a very light tan loess and more abundant vegetation (same species as listed above).

It is hoped that access will be granted to an existing road associated with an abandoned house located to the south of the proposed well location. In the event that access is not granted, an alternate route was checked by walking a 20 meter transect paralleling an existing fenceline south of the well location.

Cultural resources: No cultural resources were located other than recent trash associated with the abandoned house.

Clearance status: Recommended

#1 Navajo 4 (Oklahoma Oil Company)

Legal description: 1730' F/NL 975' F/WL NE $\frac{1}{4}$ of SW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 4 T25N R12W N.M.P.M. San Juan County, New Mexico.

Map source: U.S.G.S. 7.5' series, Carson Trading Post Quadrangle

Area surveyed: (road) 200' (pad) 100' x 150'

Description: This well will be located on a semi-stabilized dune ridge on the floodplain just north of the West Fork of Gallegos Wash. The proposed access road is northeast of the pad location and runs for approximately 200' to an existing road north of the well site. The sandy soil supports the following floral species: rabbitbrush; snakeweed (Gutierrezia sarothae); Mormon tea (Ephedra viridis); prickly pear (Opuntia sp.); narrow leaf yucca (Yucca angustissima); and various grasses.

Cultural resources: One exhausted core of local chert was located just west of the well pad location. The core measured approximately 5 cm. x 3 cm. and displayed 6 flake scars. This was the only cultural material located.

Clearance status: Recommended. The proximity of the single isolated core to the West Fork of Gallegos Wash indicates that this lithic artifact has been removed from its original context and therefore should not deter construction.

#1 Navajo 6 (Oklahoma Oil Company)

Legal description: 1190' F/NL 790' F/WL SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 6 T25N R11W N.M.P.M. San Juan County, New Mexico.

Map source: U.S.G.S. 7.5' series, Carson Trading Post Quadrangle

Area surveyed: (road) 2000' (pad) 100' x 150'

Description: The location first surveyed was located 200' east of the noted legal description (1190' F/NL 990' F/WL). Due to its situation directly in a wash which is a tributary of Gallegos Canyon, it was decided to relocate to higher ground to the west. This location is marked by Badlands with no

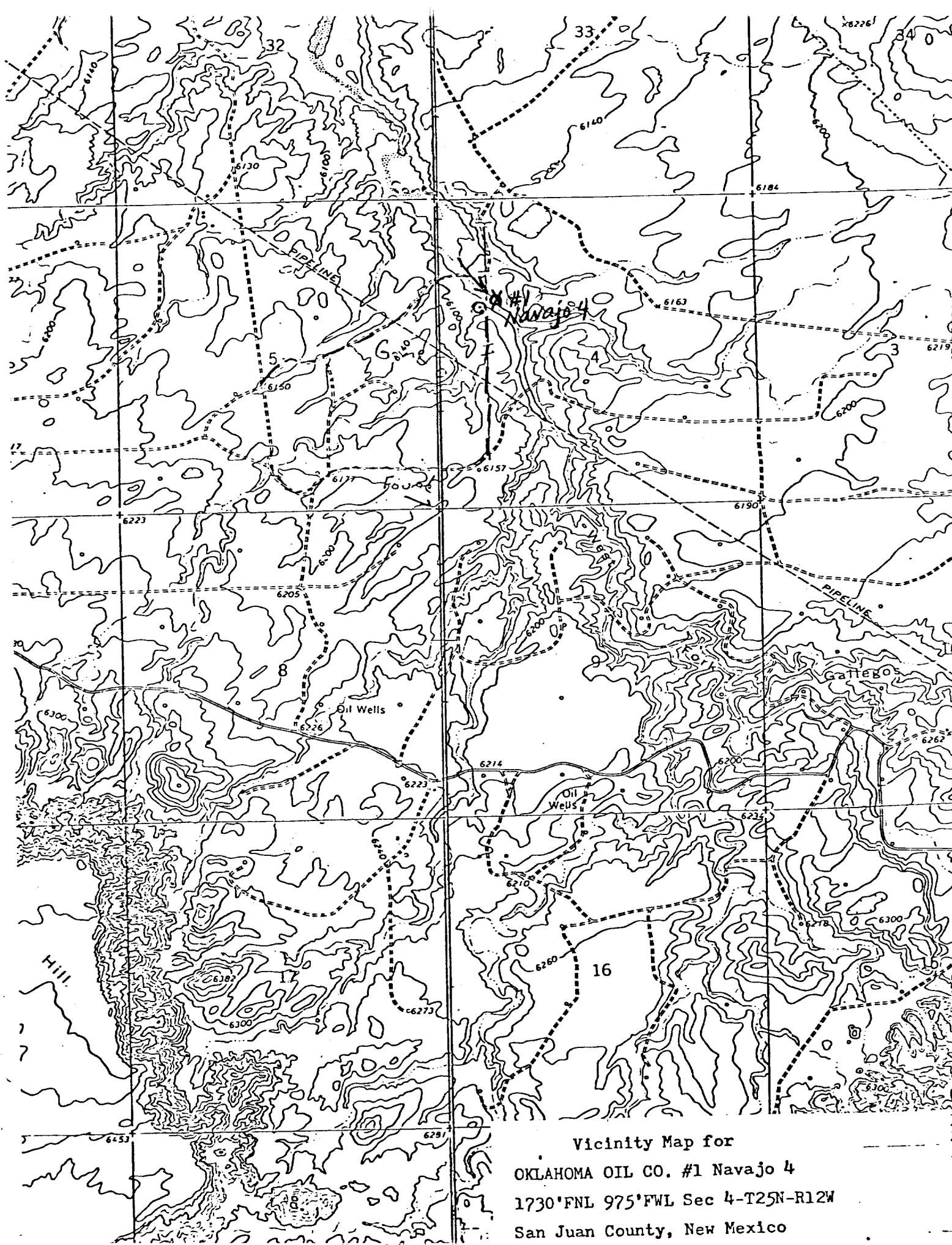
vegetation. Just east of the well location the sandy soil supports rabbitbrush, snakeweed, mesa dropseed grass, prickly pear, and big sagebrush (Artemesia tridentata).

The proposed access road is currently marked by an ungraded road which is associated with an abandoned settlement approximately 1800' west of the proposed well location. A transect north of the road was checked in order to bypass the settlement. Vegetation along the roadway is mixed. In addition to species already listed, the following species were noted: Mormon tea; blue grama grass (Bouteloua gracilis); mesa dropseed; locoweed (Astragalus sp.); and a single juniper (Juniperus sp.). Two cottontail rabbits in addition to the tracks of bobcat, sheep, and cow were noted.

Cultural resources: The only cultural resources located were associated with the abandoned settlement mentioned above. This settlement is comprised of a two-room wood and stone building, a large circular hogan constructed of shaped stone with a cribbed roof, and several corrals. The settlement has been abandoned for some time as evidenced by a lack of paper trash and identifiable can labels. All metal objects are completely rusted. No datable objects were located.

Clearance status: Recommended with the stipulation that the access road bypasses the settlement.

The most recent listing of the National Register of Historic Places has been consulted and no sites which appear on the Register and no sites which have been nominated to the Register occur in the areas surveyed. This 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 for all three locations.



Vicinity Map for
OKLAHOMA OIL CO. #1 Navajo 4
1730'FNL 975'FWL Sec 4-T25N-R12W
San Juan County, New Mexico