

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-025-26767

5. LEASE DESIGNATION AND SERIAL NO.

LC-031670 (6)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Southeast Monument Unit

8. FARM OR LEASE NAME

SEMU McKee

9. WELL NO.

114

10. FIELD AND POOL, OR WILDCAT

Warren McKee

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

Sec. 29, T-20S, R-38E

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☐

OTHER injection

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Conoco Inc.

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

810' FNL & 2130' 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

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

19. PROPOSED DEPTH

9070'

20. ROTARY OR CABLE TOOLS

Rotary

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

3534.3' GR

22. APPROX. DATE WORK WILL START*

April 7, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10 3/4"	40.5"	275'	250 SX.
9 7/8"	7 5/8"	24", 26.4"	4160'	1000 SX.
6 3/4"	5 1/2"	17"	9070'	510 SX

It is proposed to drill a straight hole to a TDoF 9070' and complete it as a Warren McKee injection well.

See attachments for 10-point well plan & 13-point Surface Use Plan.

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U. S. GEOLOGICAL SURVEY
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

W. A. Butcherfield

TITLE Administrative Supervisor

DATE

11/24/80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

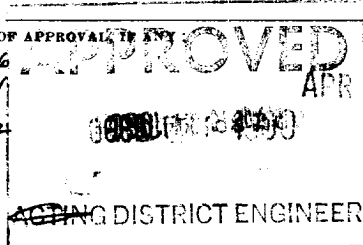
CONDITIONS OF APPROVAL, IF ANY

USGS-6

NMFU-4

FILE

JFB-2



*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form No. 1
Supersedes O-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

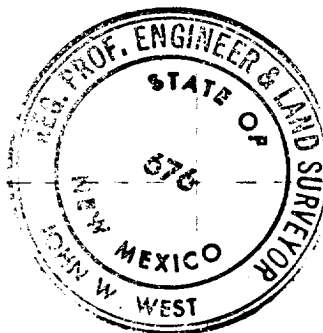
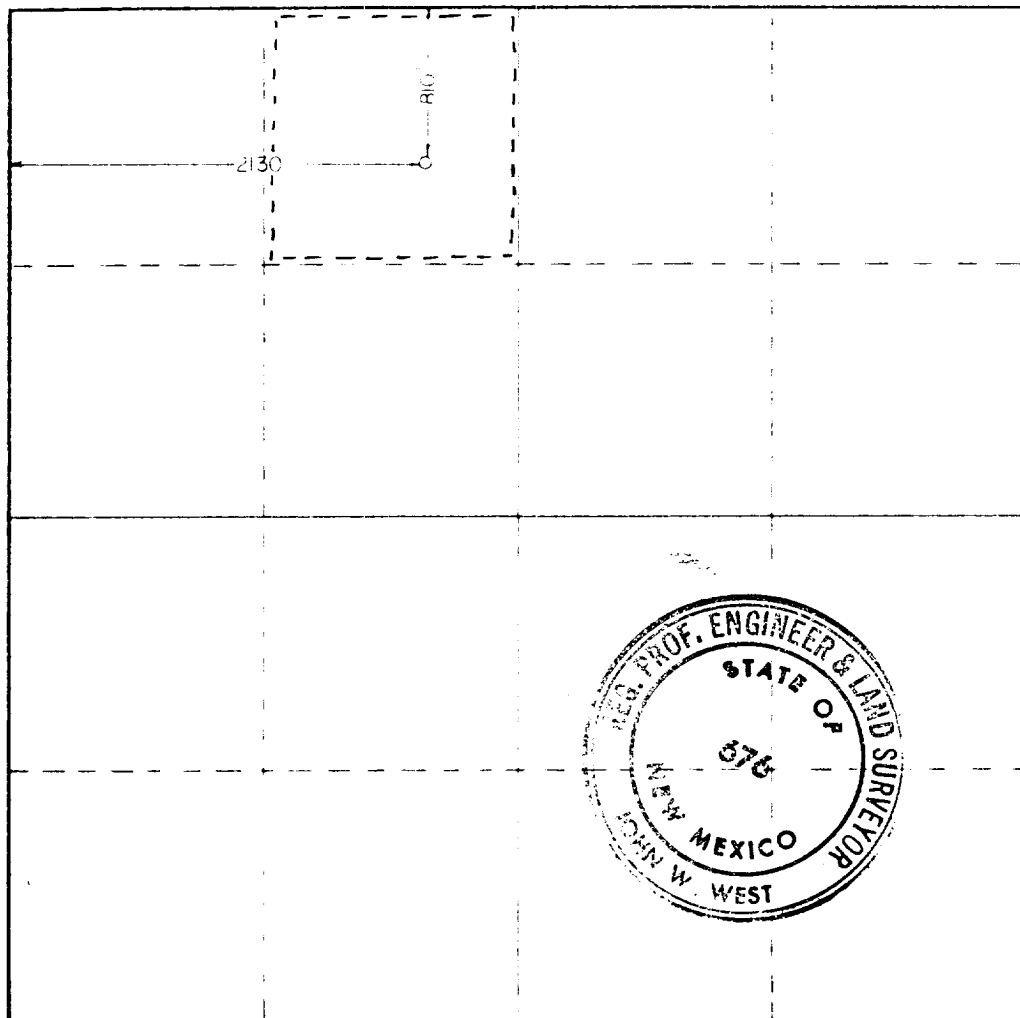
Operator Conoco, Inc.			Lessee C. M. McKee			Section 114		
North	East	South	West	North	East	South	West	
C	39	20 South	31 East	114	114	114	114	
Actual well location of well								
10 feet from the North line and 210 feet from the West line								
Ground level elev.		Producing		Lease		Acres		
3524.5		McKee		Warren McKee		40		

- 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, if so 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.

W. A. Butterfield
Administrative Supervisor

Conoco Inc.

1/24/80

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.

January 1, 1980

John W. West
Certificate No. John W. West 676

Ronald J. Eidson 3239

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

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

Conoco Inc.
SEMU McKee No. 114
Lea County, New Mexico

1. The geologic name of the surface formation is Pliestocene 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:

0'-275'	10 3/4"	40.5#	H-40	STC
0'-3400'	7 5/8"	24#	H-40	STC
3400'-4160'	7 5/8"	26.4#	K-55	STC
0'-7200'	5 1/2"	17#	K-55	LTC
7200'-9070'	5 1/2"	17#	N-80	LTC
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'-275'	8.0 - 8.5 PPG	spud mud
275'-4160'	8.5 - 9.0 PPG	salt water gel
4160'-9070'	9.0 - 9.5 PPG	bentonite caustic lignite
7. The auxiliary equipment to be used is:
 - (1) kelly cocks
 - (2) floats at the bit
8. It is proposed to run 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 is April 7, 1980, with a duration of approximately 25 days.

PROPOSED WELL PLAN OUTLINE
INJECTION WELL

WELL NAME: SEMU McKEE #114

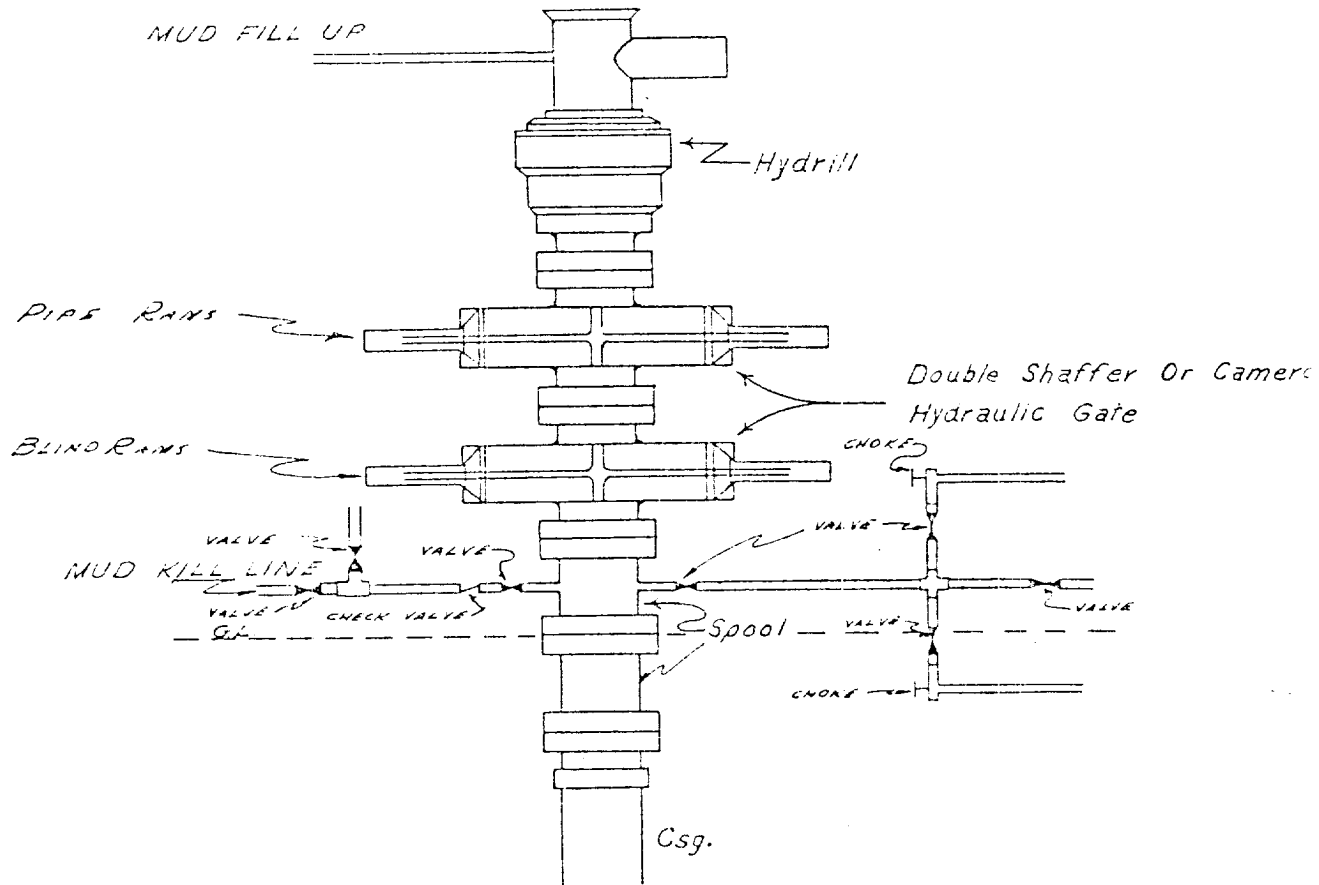
COUNTY: LEA

LOCATION: 810' ENL. & 2130' FWL
Sec. 29, T-20S, R-38E

STATE: NM
EST. KB: 3550'
EST. GL: 3535'

DEPTH	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRACTURE GRADIENT	FORMATION PRESSURE GRADIENT	MUD	
					SIZE (in.)	DEPTH			WEIGHT	TYPE
	Water ss	90-200		15"	10-3/4	275'			8.0 to 8.5	Fres Wate
1000			Geolograph 0-TD							
	Rustleranhy -	1390'								
	Salado Salt -	1500'								
2000										
	Base Salt -	2520'								
	Yates ss. -	2690'								
3000		Possible water flow encountered @ 2700'-3000'								
	Queen ss -	3510'								
4000										
	San Andres dolo. -	4050'		9-7/8"	7-5/8"	4160'	15.0		8.5 to 9.0	Salt- with gel
5000										
	Glorieta ss -	5360'								
6000										
	Blaine Mkr. dolo. -	5870'								
	Tubb Mkr. ss -	6360'								
	Drinkard dolo. -	6660'								
7000		Abo dolo. - 6950'								
	Devonian dolo. -	7780'	GR-CNL-FDC 9070'-5700'							
8000			GR-DLL 9070'-5700'							
	Montoya dolo. -	8330'	Extra Caliper 5700' to casing					Less than	9.0	Benton Caustic
	Simpson ss -	8590'						8.5	9.5	Lignite
	McKee Pay ss -	8900'		6-3/4"	5-1/2"	9070'	15.5			
9000										
	Base Pay ss	9010'								
	TD -	9070'								

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
Conoco Inc.

SEMU McKee No. 114
Sec. 29, T-20S, R-38E
Lea 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 all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 810' FNL and 2130' FWL, Sec. 29, T-20S, R-38E, Lea County, New Mexico.
- B. Exhibit A is a portion of a New Mexico road map showing existing roads. Directions to the location are as follows: From Stanolind Road in Hobbs, travel south on Highway 18 approximately 10 miles to Conoco's red, white and blue cattleguard. Turn west and follow the road 2.75 miles. Turn north and travel 0.5 mile to the location.
- C. Access roads are shown on Exhibits B and C.
- D. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. Width and length: New road required will be 12' wide and 100' long. This new road is labeled and coded on Exhibits B and C.
- B. Turnouts: None.
- C. Drainage Design: New road will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: None required.
- E. Surfacing Material: Six inches of caliche, bladed, watered and compacted.
- F. Gates, Cattleguards and Fences: None required.
- G. The proposed road is staked.

3. Location of Existing Wells

See Exhibit C.

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: No new tank batteries are required. See Exhibit C for location of existing tank batteries.
- B. Producing Facilities: No other producing facilities are Required.
- C. Injection Lines: The water injection line will be buried directly between SEMU McKee No. 114 and the McKee waterflood station. See Exhibit C.
- D. Other Lines: No other lines are required.
- E. 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. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply

Water will be hauled from Eunice, New Mexico.

6. Source of Construction Materials

Caliche will be hauled from a pit located in the SE/4 of the SE/4 Sec. 15, T-20S, R-38E.

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 required.

9. Well Site Layout

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

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: Flat.
- B. Soil: Sandy.
- C. Vegetation: See archaeological report.
- D. Surface Use: 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.: None.
- 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
W. D. Cates or H. C. Pokrandt
1001 North Turner
Hobbs, New Mexico
Phone: 393-4141

13. Certification

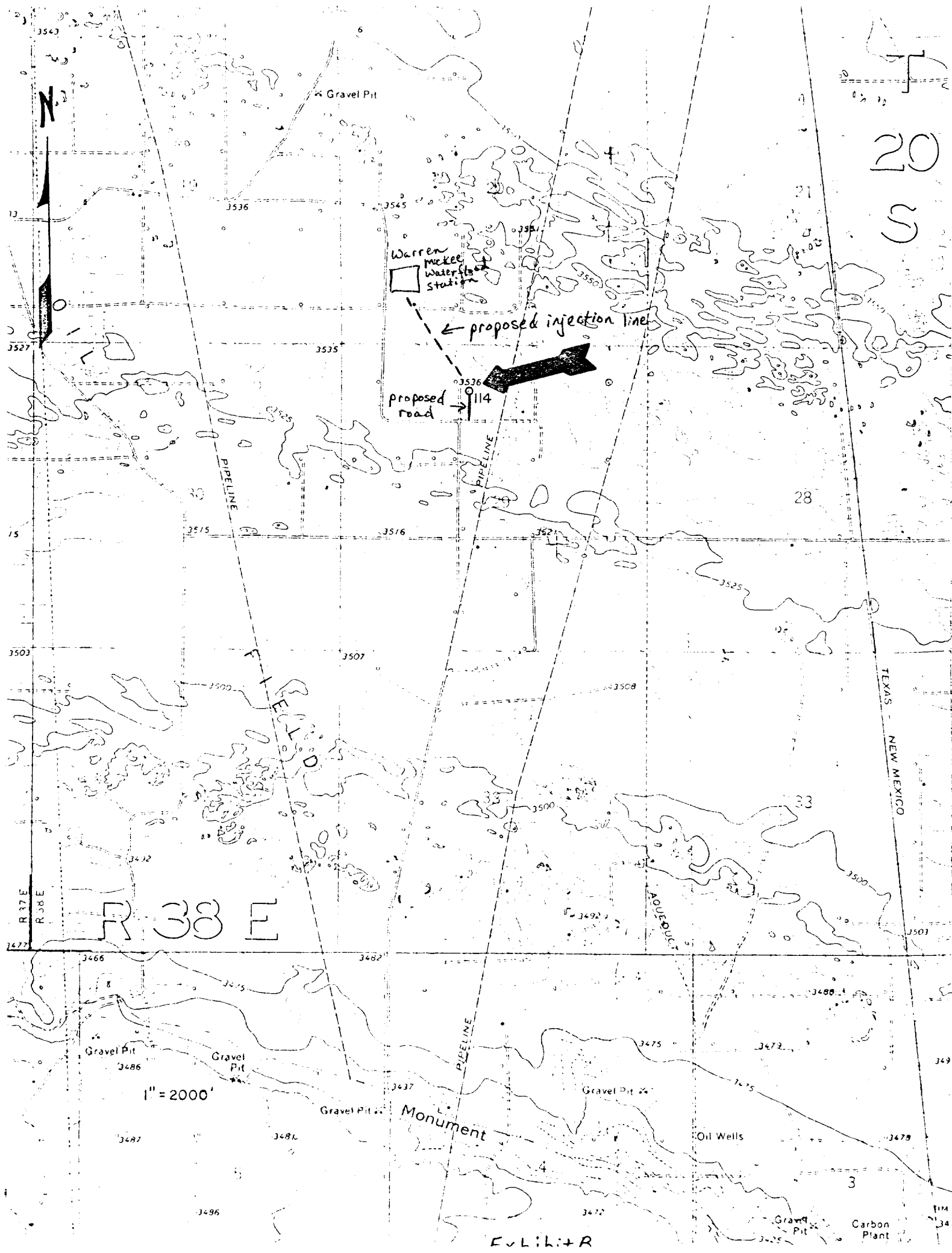
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Conoco Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

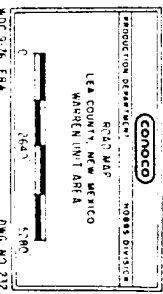
Date

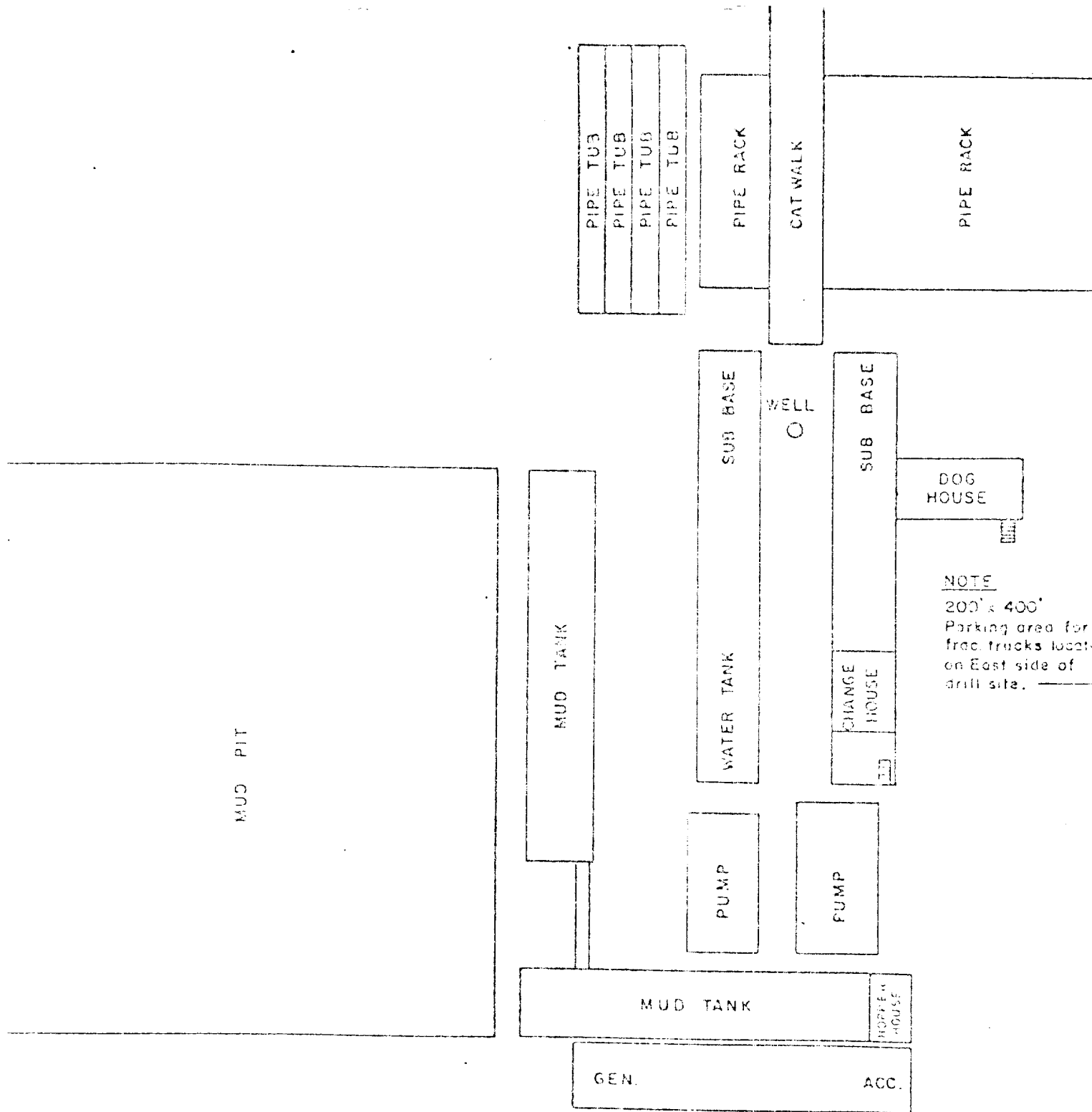
4/23/80


H. C. Pokrandt

Production Superintendent



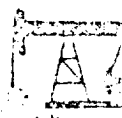




NOTE
 200' x 400'
 Parking area for
 free trucks located
 on East side of
 drill site.

APPROX. RIG SITE DIMENSIONS
 160' x 200'

CONTINENTAL OIL COMPANY
 PRODUCTION DEPARTMENT



RIG LAYOUT

Engineer: ~~W. B. G.~~

Draftsman: B.S. Date: 1-4-7

Exhibit D

Archaeological Clearance Report

for

CONOCO, INCORPORATED

SEMU McKee Well No. 114 ←
Injection Line, Section 29, T20S, R38E ←
Disposal Line for
Warren Battery No. 6

Prepared

By

Charles A. Aylward

and

Dr. J. Loring Haskell

Submitted

By

Dr. J. Loring Haskell
Principal Investigator
New Mexico Archaeological Services, Inc.
Carlsbad, New Mexico

9 January 1980

Permit No. 79-NM-166

Introduction

On 7 January 1980, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for CONOCO, INCORPORATED, HOBBS, an archaeological reconnaissance of federal lands administered by the Bureau of Land Management in Lea County, New Mexico. Reconnoitered areas will be impacted by the construction of a drill location, an associated injection line, and a disposal line. This project was advanced by Mr. Delbert Cates, Production Foreman, CONOCO, INCORPORATED, and administered by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc. This reconnaissance was undertaken by Mr. Charles A. Aylward, Research Associate, NMAS.

Survey Technique

For this investigation, CONOCO, INCORPORATED's proposed location was reconnoitered for evidence of man's past activities by walking it in a series of 20 ft wide, close interval (15° or less), zigzag transects. In addition, an added zone embracing to 20 ft on each side of the staked 400 X 400 ft location, and hence lying outside the bounds of the proposed work area, was reconnoitered by a similar means as were the injection line and disposal line. Methodologically, this procedure served to promote optimum conditions for the visual examination of areas to be impacted by construction-related activities.

SEMU McKee Well No. 114

Location

The proposed location will measure 400 X 400 ft on federal lands and will be situated 810 ft from the north line and 2130 ft

from the west line of:

Section 29, T20S, R38E, NMPM, Lea County, NM

Thus it will be situated in the:

NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM

The proposed location is situated on an existing access road.
Map Reference: USGS HOBBS SW QUADRANGLE, 7.5 Minute Series, 1969.

Terrain

CONOCO, INCORPORATED's location is situated on a generally undulating plain which in its broader context is coextensive with the Eunice Plain. Drainage, while largely of the interior type owing to the porosity of local soils, is toward the south and hence into Monument Draw. Areal soils uniformly belong to the Typic Torripsamment subgroup and consist of loose, coarse-grained, non-calcareous sandy loams and loamy sands.

Floristics

Typic Torripsamments support a low overstory of *Quercus havardii*, *Artemisia filifolia*, *Prosopis juliflora*, and *Yucca glauca*. Commonly encountered forbs include: *Hedyotis humifusa*, *Monarda punctata*, *Penstemon* sp., *Dalea* sp., and *Gilia* sp. The Graminae is represented by *Aristida* sp., *Sporobolus* sp., *Panicum* sp., *Andropogon* sp., and *Bouteloua* sp.

Cultural Resources

No archaeological sites or isolated manifestations were recorded during this reconnaissance. Prehistorically, this landform was occupied by social units engaged in hunting- and hunting-related activities. Actual usage was ephemeral and seasonal. Occupancy probably dates back to Paleo-Indian times and probably has been more or less continual since then.

Recommendations

NMAS recommends clearance for CONOCO's proposed SEMU McKee Well No. 114 and suggests that work-related activities proceed in accordance with company plans. Clearance, of course, is granted by the Bureau of Land Management.

Injection Line to
SEMU McKee Well No. 114

Location

As proposed, CONOCO's easement will measure 50 X 2500 ft on federal lands and will be situated in the:

NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM
NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM
SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 20, T20S, R38E, NMPM, Lea County, NM

Map Reference: USGS HOBBS SW QUADRANGLE, 7.5 Minute Series, 1969.

Terrain

The proposed injection line will cross an undulating plain overlain by a thick deposit of aeolian material. Locally, this landform is marked by a hummocky surface of low, stabilized dunes. Areal soil individuals belong to the Typic Torripsamments subgroup and are composed of loose, non-calcareous, loamy sands and sandy loams lacking lithic inclusions. Drainage is toward the south and ultimately is tributary to Monument Draw.

Floristics

Local soils support a floral community whose overstory is dominated by *Quercus havardii*, *Yucca glauca*, and *Artemisia filifolia*. Observed forbs include: *Hedyotis humifusa*, *Monarda punctata*, *Mentzelia* sp., *Penstemon* sp., *Dalea* sp., *Eriogonum* sp., *Gilia* sp., and *Euphorbia* sp. Grasses are represented by *Aristida* sp., *Monroa squarrosa*, *Muhlenbergia* sp., *Panicum* sp., *Andropogon* sp., *Bouteloua* sp., and *Sporobolus* sp.

Cultural Resources

No archaeological sites or isolated manifestations were recorded during this reconnaissance. Their overall absence is due to the fact that local soils do not harbor lithic inclusions. In addition, water is at a premium as is shelter. Areal resources typically occur as isolated manifestations. Resources of this type commonly are encountered in the country to the north.

Recommendations

NMAS recommends clearance for CONOCO's injection line easement and suggests that work-related activities proceed in accordance with company plans. Clearance, of course, is granted by the Bureau of Land Management.

Disposal Line for Warren Battery No. 6

Location

As proposed, CONOCO's easement will measure 50 X 6070 ft on federal lands and will be situated in the:

SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 20, T20S, R38E, NMPM, Lea County, NM
 NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM
 SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM
 NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM
 NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM
 SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T20S, R38E, NMPM, Lea County, NM

Map Reference: HOBBS SW QUADRANGLE, 7.5 Minute Series, 1969.

Terrain

CONOCO's disposal line crosses a duned landscape marked by hummocks averaging 1 m or less. As a whole, these features are atable in character. Soil individuals consist of sandy loams and loamy sands lacking lithic inclusions. These soils, in general, belong to the Typic Torripsamment subgroup.

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