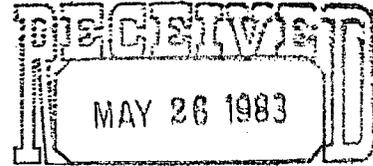




P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871

May 20, 1983



OIL CONSERVATION DIVISION
SANTA FE

*NSL 1706
Ruk 104 F
6-15-83*

New Mexico Oil Conservation Commission
Energy & Minerals Department
P.O. Box 2088
Santa Fe, New Mexico 87501

Attn: R.L. Stamets

Re: Unorthodox Location (104-F)
Vaca 13 Federal #1
660' FNL & 1880' FWL
Section 13, T-25-S, R-33-E
Lea County, New Mexico

*N/P ded
Morrow fun*

Mr. Stamets:

HNG Oil Company wishes to apply for an unorthodox location permit on the above-mentioned well. We were advised to move our original location 100' to the West due to five cultural resources discovered in a reconnaissance performed by New Mexico Archaeological Services, Inc. A copy of the report is enclosed.

Sincerely,

HNG OIL COMPANY

Cheryl Minces
Regulatory Manager

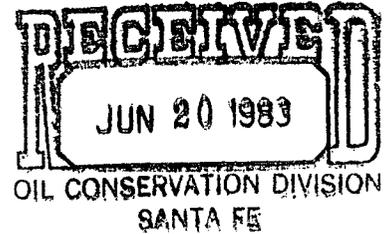
CM/kjh

enclosure

cc: Correspondence File



P. O. BOX 2267. MIDLAND, TEXAS 79702 (915) 683-4871



June 15, 1983

hsl-1706

New Mexico Oil Conservation Commission
Energy & Minerals Department
P. O. Box 2088
Santa Fe, NM 87501

Attn: Mr. R. L. Stamets

In Re: Unorthodox Location (140-F)
Vaca 13 Federal, Well No. 1
660' FNL & 1880' FWL
Section 13, T25S, R33E
Lea County, NM

Dear Mr. Stamets:

In addition to our request of May 20, 1983, for the above-unorthodox location, please find enclosed waiver letters from both Amoco Production Company and Phillips Petroleum Company, the only offsets to our lease.

Very truly yours,

HNG OIL COMPANY

Betty Gildon
Regulatory Analyst

bg

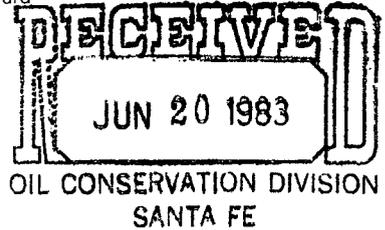
cc: BLM
Roswell, NM



Amoco Production Company (USA)

Houston Region-West
501 WestLake Park Boulevard
Post Office Box 3092
Houston, Texas 77253

R. G. Smith
Regional Engineering
Manager-West



June 8, 1983

File: JCA-986.51-2341

Re: Unorthodox Location
Vaca 13 Federal
Well No. 1
Wildcat Morrow
Lea County, New Mexico

New Mexico Energy and
Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

HNG Oil Company has applied for an unorthodox location to drill the above mentioned well located 660' FNL and 1880' FWL of Section 13, T-25-S, R-33-E.

As an offset operator, Amoco Production Company has no objection to the granting of a permit for this drilling location.

Yours very truly,

R. G. Smith
MLC

MLC/lep
1232/F

cc: HNG Oil Company
P. O. Box 2267
Midland, Texas 79702



P. O. BOX 2267. MIDLAND, TEXAS 79702 (915) 683-4871

May 19, 1983



Amoco Production Company
P. O. Box 3092
Houston, Texas 77001
ATTN: Proration Section

Phillips Petroleum Company
P. O. Box 1967
Houston, Texas 77001
ATTN: Proration Section

RE: Waiver-Vaca 13 Federal, Well No. 1
Located in Section 13, T-25-S,
R-33-E, Lea County, New Mexico

Gentlemen:

HNG Oil Company has applied for an unorthodox location to drill the above-mentioned well as shown on the attached form 9-331, Application To Drill, with plat.

If you, as an offset operator to this lease, have no objection to the granting of this special permit we would appreciate your signing in the space provided below and returning it to us as soon as possible.

Sincerely,

HNG OIL COMPANY

Cheryl Minces
Regulatory Manager

Date: 6/8/83

Company: Phillips Pet. Co.

By:

CM/de

Encl



R. E. Ogden
Regional Engineering
Manager

January 15, 1985

File: JCA-986.51NM-9615

Re: Unorthodox Well Location
Vaca 13 Federal Well No. 1
Lea County, New Mexico

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Attention: David Catanach

Gentlemen:

Amoco Production Company has been advised by HNG Oil Company of their intention to drill Vaca 13 Federal Well No. 1 at an unorthodox location, due to topographical conditions at the following location:

660' FNL and 1880' FWL, Section 13
T-25-S, R-33-E, Lea County, New Mexico.

As an offset operator, Amoco Production Company has no objection to the subject drilling location.

Yours very truly,

R.E. Ogden
mlc

MLC/jlt
OP13D004

cc: HNG Oil Co.
P. O. Box 2267
Midland, TX 79702

Amoco Production Company

Houston Region
501 WestLake Park Boulevard
Post Office Box 3092
Houston, Texas 77253

RECEIVED
JAN 22 1985

OIL CONSERVATION DIVISION
SANTA FE



P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871

January 7, 1985

Amoco Production Company
P. O. Box 3092
Houston, Texas 77001

Phillips Petroleum Company
P. O. Box 1967
Houston, Texas 77001

In Re: Vaca 13 Federal, Well No. 1 located 660' FNL
and 1880' FWL, Sec. 13, T25S, R33E, Lea County, NM.

Gentlemen:

Original location for the above-named well was moved 100 feet to the west due to five cultural resources discovered in a reconnaissance performed by New Mexico Archaeological Services, Inc. If you as offset operator have no objection to the amended unorthodox location changing the formation from the Morrow to the Atoka, please sign in the space provided below and return to this office in the envelope provided.

Your early attention is appreciated.

Very truly yours,

HNG OIL COMPANY

Betty Gildon

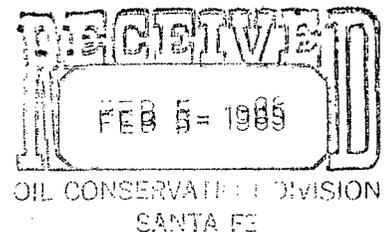
Betty Gildon
Regulatory Analyst

bg

enclosures

Date: 1-31-85

COMPANY: Phillips Petroleum Company NAME: *L.R. Smith*



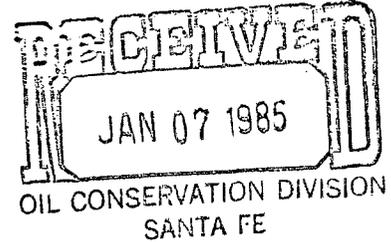
Release January 28, 1984

By Dec.

NSL -
RULE-104 F(E)



P. O. BOX 2267, MIDLAND, TEXAS 79702 (915) 683-4871



January 4, 1985

New Mexico Oil Conservation Commission
Energy & Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. R. L. Stamets

In Re: Vaca 13 Federal, Well No. 1 (NM 19623) located in
Section 13, Township 25 south, Range 33 east, Lea
County, NM.

Dear Mr. Stamets:

The above-named well was drilled to the Morrow at a total depth of 15,948 feet and plugged back to the Atoka. Plug back total depth is 14,595 feet and perforations are 14,495 to 14,509 feet.

Please amend approval of an unorthodox location granted in the Morrow formation on June 15, 1983, to the Atoka. Original location was moved 100 feet to the west due to five cultural resources discovered in a reconnaissance performed by New Mexico Archaeological Services, Inc. Offset operators notified by certified mail are:

Amoco Production Company
P. O. Box 3092
Houston, Texas 77001

Phillips Petroleum Company
P. O. Box 1967
Houston, Texas 77001

Your early attention is appreciated.

Very truly yours,

HNG OIL COMPANY

A handwritten signature in cursive script that reads 'Betty Gildon'.

Betty Gildon
Regulatory Analyst

bg

cc: NMOCC
Hobbs, NM

HNG OIL COMPANY

Prospective formations of interest for our Vaca 13 Federal Well No. 1 located 660' FNL and 1880' FWL, Section 13, T-25-S, R-33-E, Lea County, New Mexico.

<u>Formation</u>	<u>Depth</u>
Wolfcamp	13,950'
Atoka Lime	14,600'
Morrow Clastics	15,150'
Projected TD	16,200' Morrow

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.

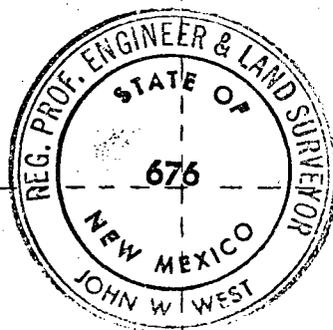
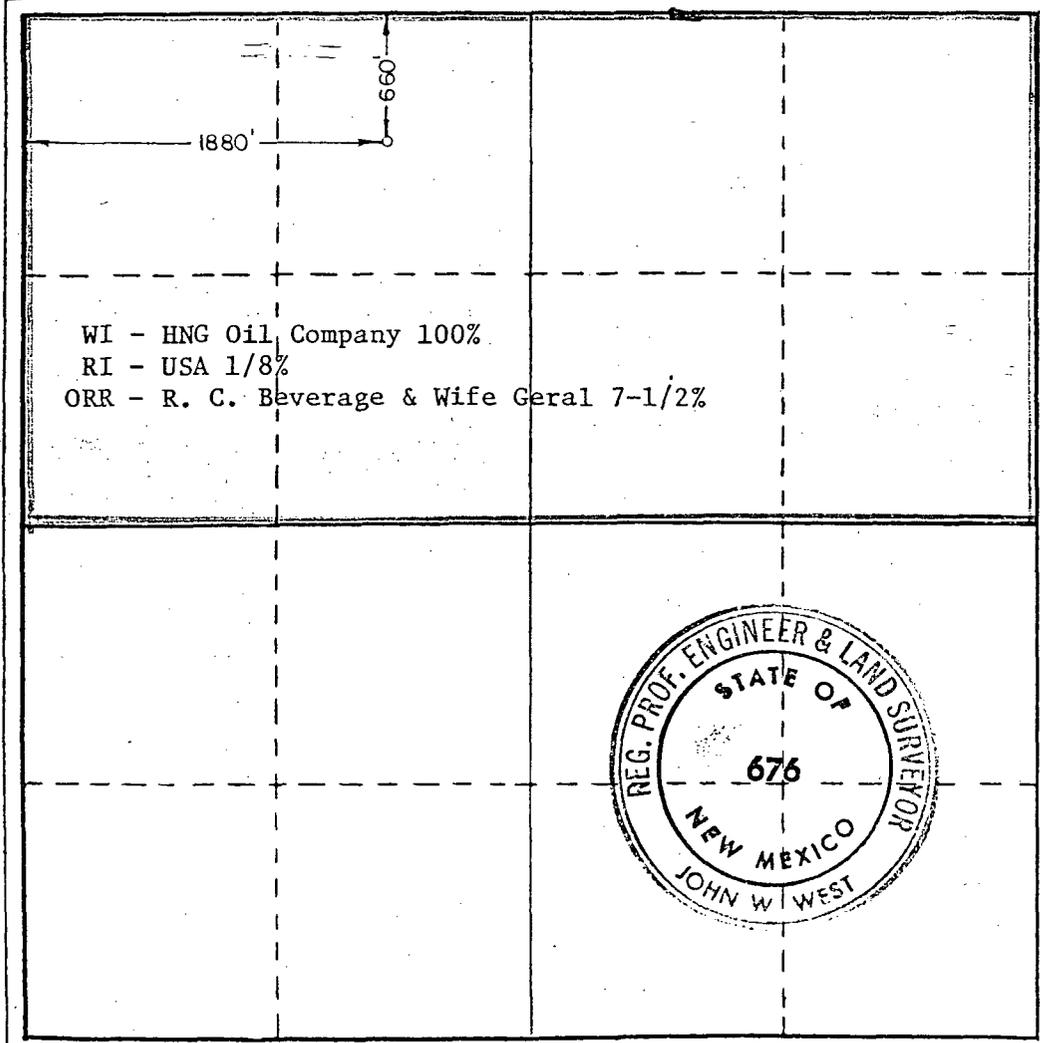
Operator HNG OIL COMPANY		Lease VACA 13 FEDERAL			Well No. 1
Unit Letter C	Section 13	Township 25 South	Range 33 East	County Lea County	
Actual Footage Location of Well: 660 feet from the North line and 1880 feet from the West line					
Ground Level Elev. 3359.6	Producing Formation Atoka		Pool Wildcat	Dedicated Acreage: North half 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

Betty Gildon

Name
Betty Gildon
Position
Regulatory Analyst

Company
HNG OIL COMPANY

Date
1/3/85

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.

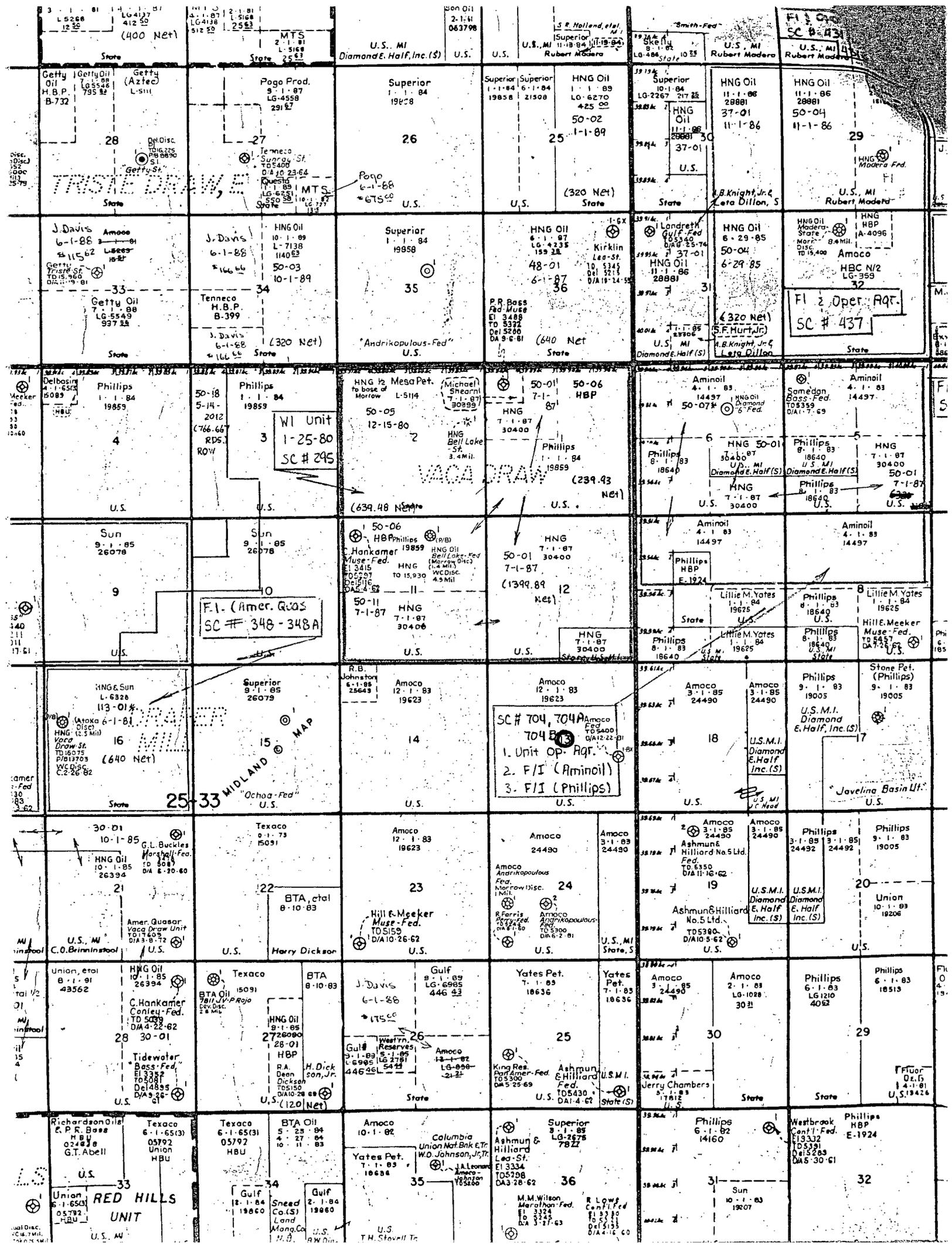
Date Surveyed
May 12, 1983

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No
JOHN W. WEST NO. 676





State (400 Net)

U.S. MI Diamond E. Half, Inc. (S)

U.S. MI Superior Robert Madera

U.S. MI Robert Madera

Getty Oil H.B.P. B-732
Getty Oil (Aztec) L-5111
28

Pogo Prod. 3-1-87 LG-4558 29187
Tenneco Superior St. TOS400
27

Superior 1-1-84 19858
26

Superior 1-1-84 19858
25

HNG Oil 1-1-89 LG-6270 42500
50-02
1-1-89
30

HNG Oil 11-1-86 28881
37-01
11-1-86
29

J. Davis 6-1-88 Amoco 41152
33

J. Davis 6-1-88 HNG Oil 10-1-89 L-7138 114083
50-03
10-1-89
34

Superior 1-1-84 19858
35

HNG Oil 6-1-87 LG-4238 15938
48-01
6-1-87
36

HNG Oil 6-29-85 50-04
6-29-85
31

HNG Oil 6-29-85 50-04
6-29-85
32

Delbasin 1-1-84 19859
4

Phillips 1-1-84 19859
3

HNG Mesa Pet. L-5114
50-05
12-15-80
2

HNG 7-1-87 30400
Phillips 1-1-84 19859
50-01
7-1-87
1

Aminoil 4-1-83 14497
50-07
5

Aminoil 4-1-83 14497
5

Sun 9-1-85 26078
9

Sun 9-1-85 26078
10

HNG H.B.P. Phillips 19859
50-06
7-1-87
12

HNG 7-1-87 30400
7-1-87
12

Aminoil 4-1-83 14497
7

Aminoil 4-1-83 14497
7

HNG & Sun L-6326 113-01
16

Superior 9-1-85 26079
15

Amoco 12-1-83 19623
14

Amoco 12-1-83 19623
18

Amoco 3-1-85 24490
18

Phillips 9-1-83 19005
17

HNG Oil 10-1-85 26394
21

Texaco 10-1-85 26394
22

Amoco 12-1-83 19623
23

Amoco 12-1-83 19623
24

Amoco 3-1-85 24490
19

Phillips 3-1-85 24492
20

Union, et al 43562
28

Texaco 10-1-85 26394
27

Gulf 9-1-89 LG-6985 44623
26

Yates Pet. 7-1-85 18636
25

Amoco 3-1-85 24490
30

Phillips 6-1-83 LG-1210 4062
29

Richardson Oil & P.R. Boss H.B.U. 02488 G.T. Abell
33

Texaco 6-1-85(3) 05792 HBU
34

Amoco 10-1-82
35

Superior 3-1-85 LG-2676 7822
36

Phillips 6-1-82 14160
31

Phillips H.B.P. E-1924
32

TRISTE DRAW

Pogo 6-1-88

(320 Net)

HNG Madera Fed.

WI Unit SC # 295

VACA DRAW (239.43 Net)

FI 2 Oper. Aqr. SC # 437

FI. (Amer. Quas) SC # 348-348A

SC # 704, 704A
1. Unit OP. Aqr.
2. F/I (Aminoil)
3. F/I (Phillips)

33 MIDLAND MAP

Javelina Basin U.S.

RED HILLS UNIT



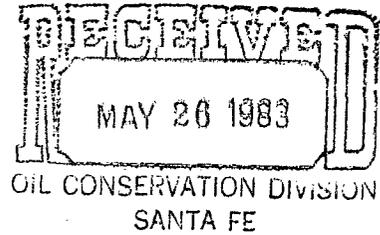
Reconnaissance
Excavation
Analysis
Explanation
Curation

NMAS

New Mexico Archaeological Services, Inc.

P. O. Box 1341
Carlsbad, New Mexico 88220
(505) 887-7646

12 May 1983



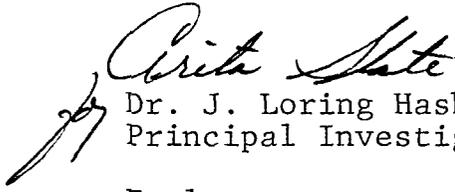
Ms. Cheryl Minces
Regulatory Manager
HNG OIL COMPANY
P.O. Box 2267
Midland, Texas 79702

Dear Ms. Minces:

Enclosed please find NMAS' Archaeological Clearance Report for HNG OIL COMPANY's proposed Vaca 13 Federal Well No. 1 and its associated access road in Lea County. One archaeological site (NMAS 5513), and five isolated cultural resources (CR) were recorded during this reconnaissance. NMAS is suggesting clearance for this project provided the archaeological site is avoided. Please consult our report for the suggested mitigation.

If you have any questions pertaining to this report, please call my office. Thank you for asking NMAS to do this reconnaissance.

Yours sincerely,


Dr. J. Loring Haskell
Principal Investigator

Enclosure

cc: Mr. Thomas Zale, BLM, Carlsbad
Mr. Ray Foster, Minerals Management Service,
Hobbs
Mr. Curtis Schaafsma, Laboratory of Anthropology,
Santa Fe
Mr. Thomas W. Merlan, SHPO, Santa Fe

as

Archaeological Clearance Report

for

HNG OIL COMPANY

Vaca 13 Federal Well No. 1

Prepared

By

James E. Hunt, MA.

and

Megan L. Self, MA.

Submitted

By

Dr. J. Loring Haskell

Principal Investigator

New Mexico Archaeological Services, Inc.

Carlsbad, New Mexico

12 May 1983

Permit No. 82-NM-376

ABSTRACT

New Mexico Archaeological Services, Inc., representing HNG OIL COMPANY, Midland, undertook an archaeological reconnaissance of Bureau of Land Management lands scheduled to be impacted by the construction of a drill location and its access road. The proposed work will be situated in Sections 11, 12, and 13, T25S, R33E, NMPM, Lea County, New Mexico. Cultural properties consist of one archaeological site (NMAS 5513), and five isolated cultural resources (CR). NMAS is suggesting clearance for HNG OIL COMPANY's proposed work provided the archaeological site is avoided.

Introduction

On 11 May 1983, New Mexico Archaeological Services, Inc., (NMAAS), Carlsbad, undertook for HNG OIL COMPANY, Midland, 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 and its associated access road. This project was advanced by Ms. Cheryl Minces, Regulatory Manager, HNG OIL COMPANY, and administered by Dr. J. Loring Haskell, Principal Investigator, NMAAS, Inc. This reconnaissance was undertaken by Mr. James E. Hunt.

Survey Technique

For this investigation, HNG OIL COMPANY's proposed location was reconnoitered for evidence of man's past activities by walking it in a series of 25 ft wide, close interval (15° or less), zigzag transects. In addition, an added zone extending 20 ft on each side of the staked 400 X 400 ft location, and lying outside the bounds of the proposed work area, was reconnoitered by a similar means. The access road was walked in two 25 ft wide transects. Lathe is considered to be the center of the proposed road. Methodologically, these procedures served to promote optimal conditions for the visual examination of areas be impacted by construction-related activities.

Vaca 13 Federal Well No. 1

Location

The proposed location will measure 400 X 400 ft (Actual Area Surveyed 4.44 Acres) on federal lands and will be situated 660 ft from the north line and 1980 ft from the west line of:

Section 13, T25S, R33E, NMPM, Lea County, NM

Thus it will be situated in the:

NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 13, T25S, R33E, NMPM, Lea County, NM

The associated access road will measure approximately 20 X 6500 ft (Actual Area Surveyed 7.46 Acres) and is situated in the:

NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 13, T25S, R33E, NMPM, Lea County, NM

NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 13, T25S, R33E, NMPM, Lea County, NM

SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 12, T25S, R33E, NMPM, Lea County, NM

NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 12, T25S, R33E, NMPM, Lea County, NM

NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 11, T25S, R33E, NMPM, Lea County, NM

SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, T25S, R33E, NMPM, Lea County, NM

SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, T25S, R33E, NMPM, Lea County, NM

NW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, T25S, R33E, NMPM, Lea County, NM

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

Terrain

HNG OIL COMPANY's proposed location will be situated on a rolling plain located south of Bell Lake and east of Paduca Breaks. Characteristic of this landform's surface are hummocks of up to 1.0 m in height along with associated interconnecting denuded areas. In addition, shallow deflation basins are also present. While drainage is predominantly of the internal type, occasionally, arroyos do cut the landform's surface, thus channelling runoff to the south. Soils belong to the Typic Torripsamment subgroup and are composed of loamy sands and sandy loams which host occasional screes of caliche cobbles and gravels, as well as some cherty inclusions.

Floristics

This landform's floral overstory consists of Prosopis juliflora, Yucca glauca, Quercus havardii, and Artemisia filifolia. Attendant forbs include Croton sp., Gutierrezia sarothrae, and Zinnia acerosa. Grasses are represented by Muhlenbergia spp., Sporobolus contractus, and Cenchrus incertus.

Cultural Resources

During the course of this reconnaissance, one archaeological site (NMAS 5513) and five isolated cultural resources (CR) were recorded.

Isolated Cultural Resources (CR)

CR 1 consists of one sandstone mano located along the proposed access road at a point approximately 1000 ft southeast of the existing Bell Lake Federal 11 Well No. 1. It is situated in the:

NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, T25S, R33E, NMPM, Lea County, NM

UTM: Zone 13, N3,557,620; E637,830

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

CR 2 is composed of one fragment of ground sandstone associated with a scatter of burned caliche cobbles located along the proposed access road at a point approximately 1320 ft southeast of the existing Bell Lake Federal 11 Well No. 1. It is situated in the:

SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, T25S, R33E, NMPM, Lea County, NM

UTM: Zone 13, N3,557,530; E637,900

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

CR 3, consisting of one chert scraper, is located along the proposed access road at a point approximately 4000 ft southwest of the existing Bell Lake Federal 11 Well No. 1. It is situated in the:

SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 12, T25S, R33E, NMPM, Lea County, NM

UTM: Zone 13, N3,556,880; E638,350

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

CR 4 is one chert tertiary decortication flake located on the proposed location, at a point approximately 200 ft north of center. It is situated in the:

SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 13, T25S, R33E, NMPM, Lea County, NM

UTM: Zone 13, N3,556,340; E638,830

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

CR 5, comprised of one fragment of a ground sandstone metate, is located on the proposed location at a point approximately 125 ft southeast of center. It is situated in the:

NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 13, T25S, R33E, NMPM, Lea County, NM

UTM: Zone 13, N3,556,230; E638,850

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

NMAS 5513

Location: NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 13, T25S, R33E, NMPM, Lea County, NM

UTM: Zone 13, N3,556,230; E638,900

Map Reference: USGS BELL LAKE QUADRANGLE, 7.5 Minute Series, 1973.

Ownership: Bureau of Land Management

Dimension of Resources: 20 X 20 m

Typological Designation: Task Locus

Authorship/Temporality: Unknown

Nature of Cultural Resources: NMAS 5513, a task locus, is situated in an area of low stabilized sand dunes interspersed with shallow deflation basins. The site itself is located in one of these basins, 50 ft northwest of the southeast corner of the proposed pad. Cultural properties for this small task locus consist of a fire-hearth constructed of caliche cobbles, measuring 1.0 m in diameter; a scatter of burned caliche cobbles and two chert secondary decortication flakes. Although no diagnostic artifacts were recorded as occurring on NMAS 5513, subsurface testing of the feature may produce samples suitable for radiometric dating which would establish

the site's cultural and temporal affiliations. This task locus represents an ephemeral campsite.

Recommendations

NMAS suggests clearance for HNG OIL COMPANY's proposed location and road provided the archaeological site is avoided. This can be accomplished by shifting the proposed location 100 ft to the west of its presently staked position, i.e., 1880 FWL, 660FNL, Section 13, T25S, R33E, NMPM, Lea County, New Mexico. Men and materiel are to avoid the archaeologically sensitive area. Clearance, of course, is granted by the Bureau of Land Management. If additional cultural resources are encountered during construction, the BLM and NMAS should be notified immediately.

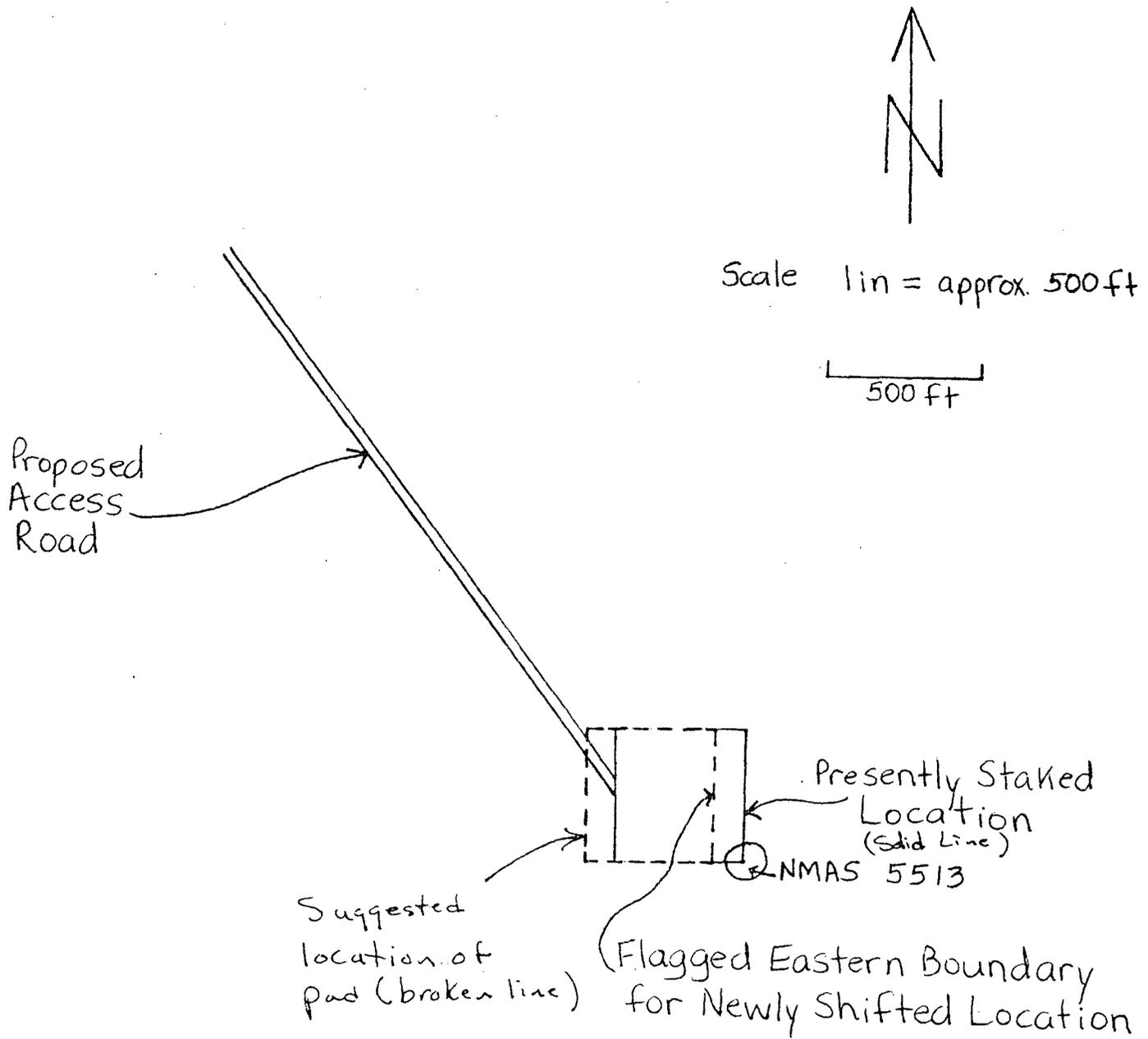
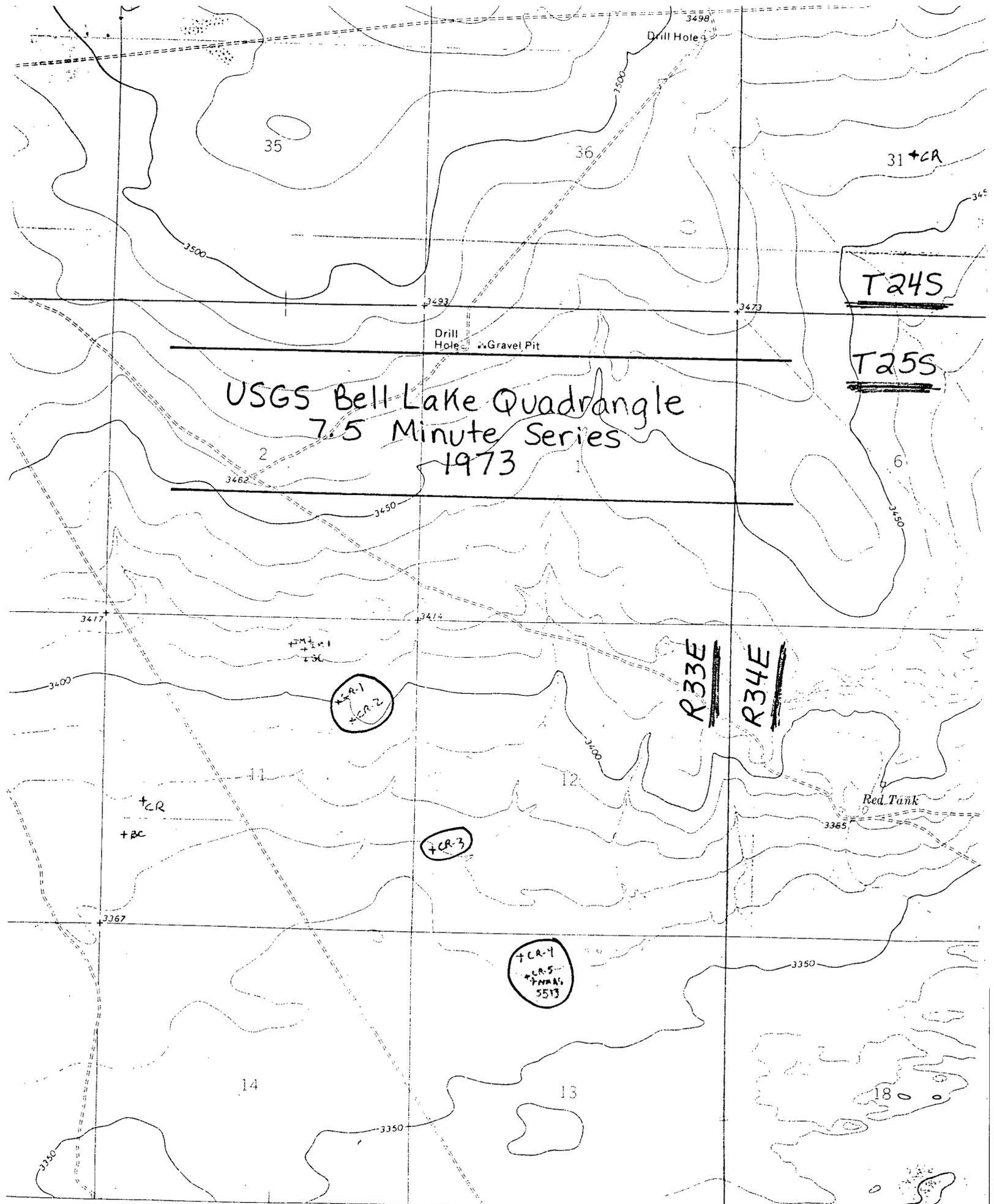


Fig. 1. Schematic representation showing HNG OIL COMPANY's proposed Vcac 13 Federal Well No. 1 vis a vis NMA 5513 and the proposed location of the pad. NMA suggests that the location be moved 100 ft to the west from its presently staked position; i.e., 1880 FWL, 660 FNL, Section 13, T25S, R33E.



USGS Bell Lake Quadrangle
 7.5 Minute Series
 1973

T24S
T25S

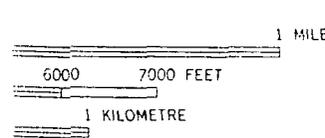
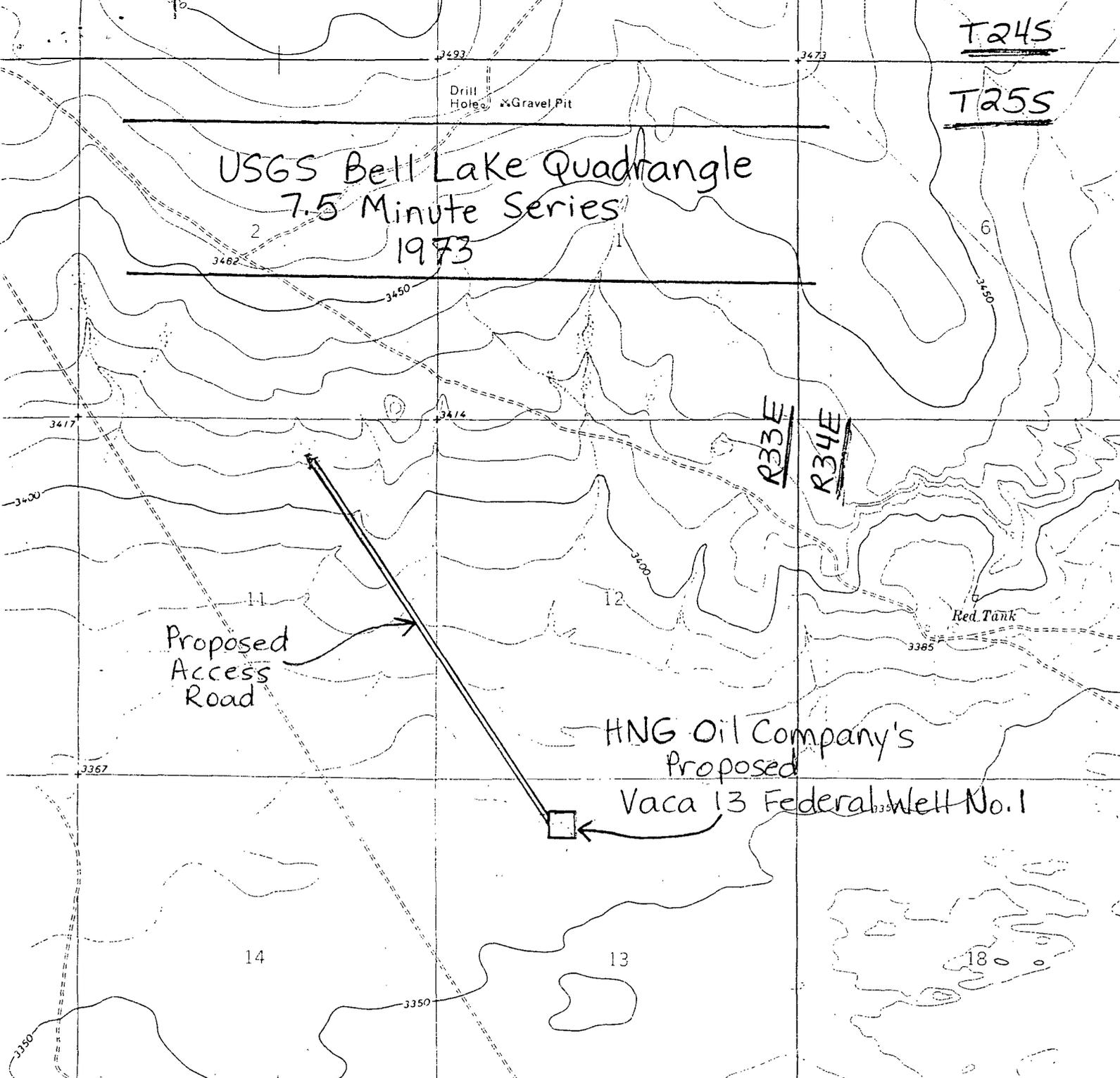
R33E
R34E

CR-1
 CR-2

CR-3

CR-4
 CR-5
 5513

CR
 BC



INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1975
 R. 33 E. R. 34 E. 641000mE.

ROAD CLASSIFICATION

Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road.
Interstate Route	U. S. Route
	State Route

STANDARDS
 RESTON, VIRGINIA 22092
 AVAILABLE ON REQUEST

BELL LAKE, N. ME
 N3207.5-W10330/7.5

1973

AMS 5248 II NE--SERIES V86

Offset Operators

Amoco Production Company
P.O. Box 3092
Houston, Texas 77001

Attn: Proration Section

Phillips Petroleum Company
P.O. Box 1967
Houston, Texas 77001

Attn: Proration Section

This is to certify that the above-named offset operators have been notified of HNG Oil Company's request for an unorthodox location for the Vaca 13 Federal #1, located in Section 13, T-25S, R-33-E, Lea County, New Mexico.

Cheryl Minces
Cheryl Minces
Regulatory Manager

Date: Monday, May 23, 1983
Tony B. Whitley
Notary Public

TONY B. WHITLEY-Notary Public
In and for the State of Texas
My Commission Expires 6-27-84

HNG OIL COMPANY

Prospective formations of interest for our Vaca 13 Federal Well No. 1 located 660' FNL and 1880' FWL, Section 13, T-25-S, R-33-E, Lea County, New Mexico.

<u>Formation</u>	<u>Depth</u>
Wolfcamp	13,950'
Atoka Lime	14,600'
Morrow Clastics	15,150'
Projected TD	16,200' Morrow

RECEIVED
MAY 26 1983

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.

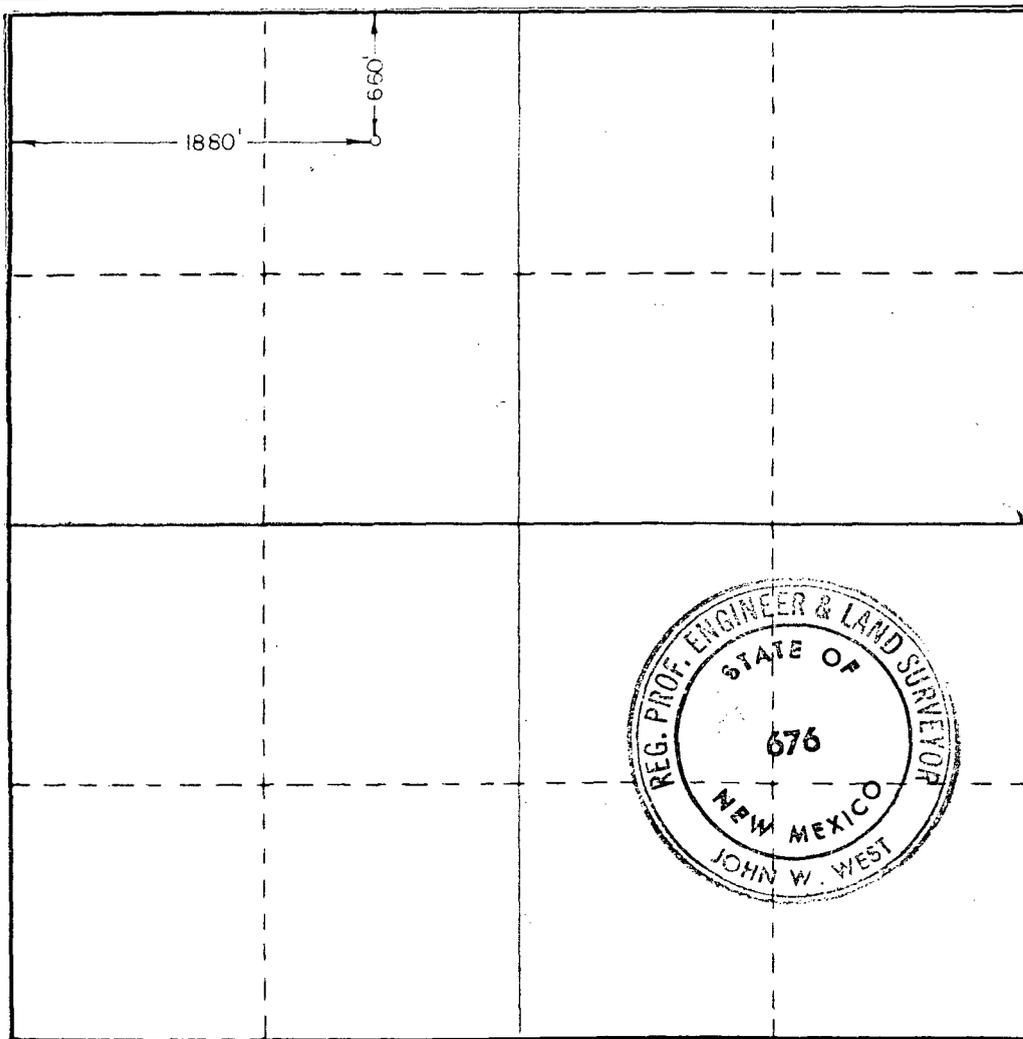
Operator HNG OIL COMPANY		Lease VACA 13 FEDERAL		Well No. 1
Unit Letter C	Section 13	Township 25 South	Range 33 East	County Lea County
Actual Footage Location of Well: 660 feet from the North line and 1880 feet from the West line				
Ground Level Elev. 3359.6	Producing Formation	Pool	Dedicated Acreage: 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
Position
Company
Date

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 May 12, 1983
Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST NO. 676



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

2. NAME OF OPERATOR
 HNG Oil Company

3. ADDRESS OF OPERATOR
 P.O. Box 2267 Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 660' FNL & 1880' FWL
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 29 miles West of Jal, New Mexico

16. NO. OF ACRES IN LEASE
 640'

17. NO. OF ACRES ASSIGNED TO THIS WELL
 320

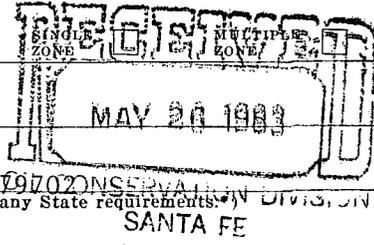
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 None

19. PROPOSED DEPTH
 16,200'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3360.6 GR

22. APPROX. DATE WORK WILL START*
 August, 1983



5. LEASE DESIGNATION AND SERIAL NO.
 NM-19623

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Vaca 13 Federal

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat (Morrow)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 13, T25S, R33E

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

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	600'	575 sx cmt circ to surf.
12-1/4"	9-5/8"	36#	5,200'	3200 sx cmt circ to surf.
8-1/2"	7"	26#	13,250'	1000 sx cmt circ to surf.
6-1/8"	4-1/2" liner	15.10#	16,200' to 13,000'	325 sx cmt top @ 13,000'

BOP - Install at 5200' with 3000# cap. and 2450# annular preventor. At 13,250' increase to 11,000# cap. with annular preventor. Will use standard surface controlled BOP installation.

Acreage is dedicated.

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 Cheryl Minces TITLE Regulatory Manager DATE 5-24-83

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: