

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Geo Engineering, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1417, Socorro, New Mexico 87801

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

At surface

1322; FNL, 609; FEL

At proposed prod. zone

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

9 1/4 From White Horse

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

609'

16. NO. OF ACRES IN LEASE

159.511

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.

330'

19. PROPOSED DEPTH

1100

20. ROTARY OR CABLE TOOLS

Rotary

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

6461 GR

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED
PROPOSED CASING AND CEMENTING PROGRAM

22. APPROX. DATE WORK WILL START*

July 25, 1984

23.

This action is subject to administrative
appeal pursuant to 30 CFR 200.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7"	11# 5-55	100'	35ft ³
6-3/4"	4-1/2"	10# 5-55	1000'	236.5 cu. ft.

Operator proposes to drill a 9" hole to a depth of 100' and, then a 6-3/4" hole to a depth of 1100' to evaluate the Menefee sands of the mesa verde formation. If oil is encountered in economic quantities, 4-1/2" casing will be run to pay zone.

RECEIVED
JAN 23 1986
OIL CON. DIV.
DIST. 3

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

James R. Wauchope

TITLE

Geologist

DATE

8-15-84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

NMOCC

*See Instructions On Reverse Side

APPROVED
AS AMENDED

JAN 22 1986

/s/ J. Stan McKee
M. MILLENBACH
AREA MANAGER

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form O-102
Revised 10-1-79

All distances must be from the outer boundaries of the Section

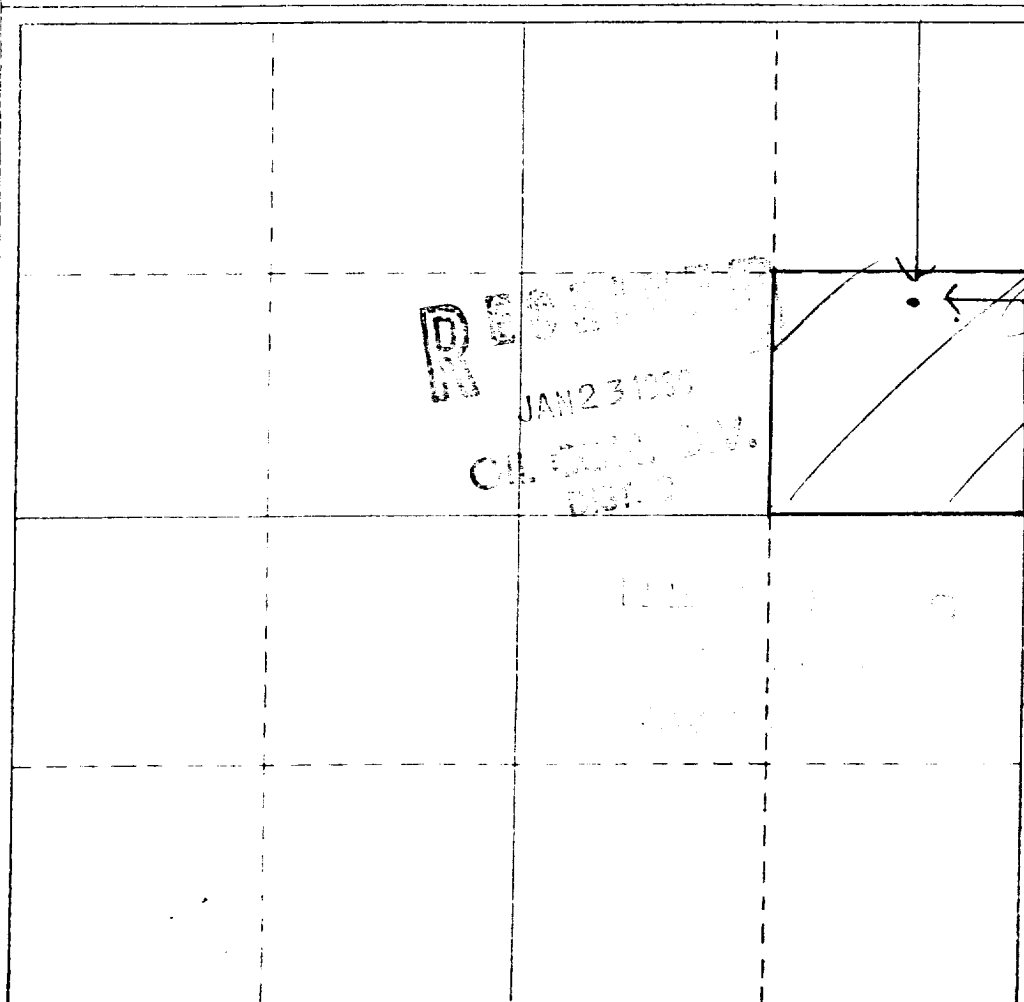
Lessor Geo Engineering, Inc.			Lease Federal "A" #N.M. 0254488			Well No. 4		
Unit Letter H	Section 30	Township T.20.N	Range R.9W	County McKinley				
Actual Plot the Location of Well: 1322 feet from the North line and 609 feet from the East line								
Ground Level Elev 6461 GL		Producing Formation Menefee		Pool Wildcat			Dedicated Acreage: 40 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 Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
James R. Woods
Position
Geologist
Company
Geo Engineering, Inc.
Date
August 15, 1984

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 3, 1984
Registered Professional Engineer
and/or Land Surveyor

Certificate No.

4051

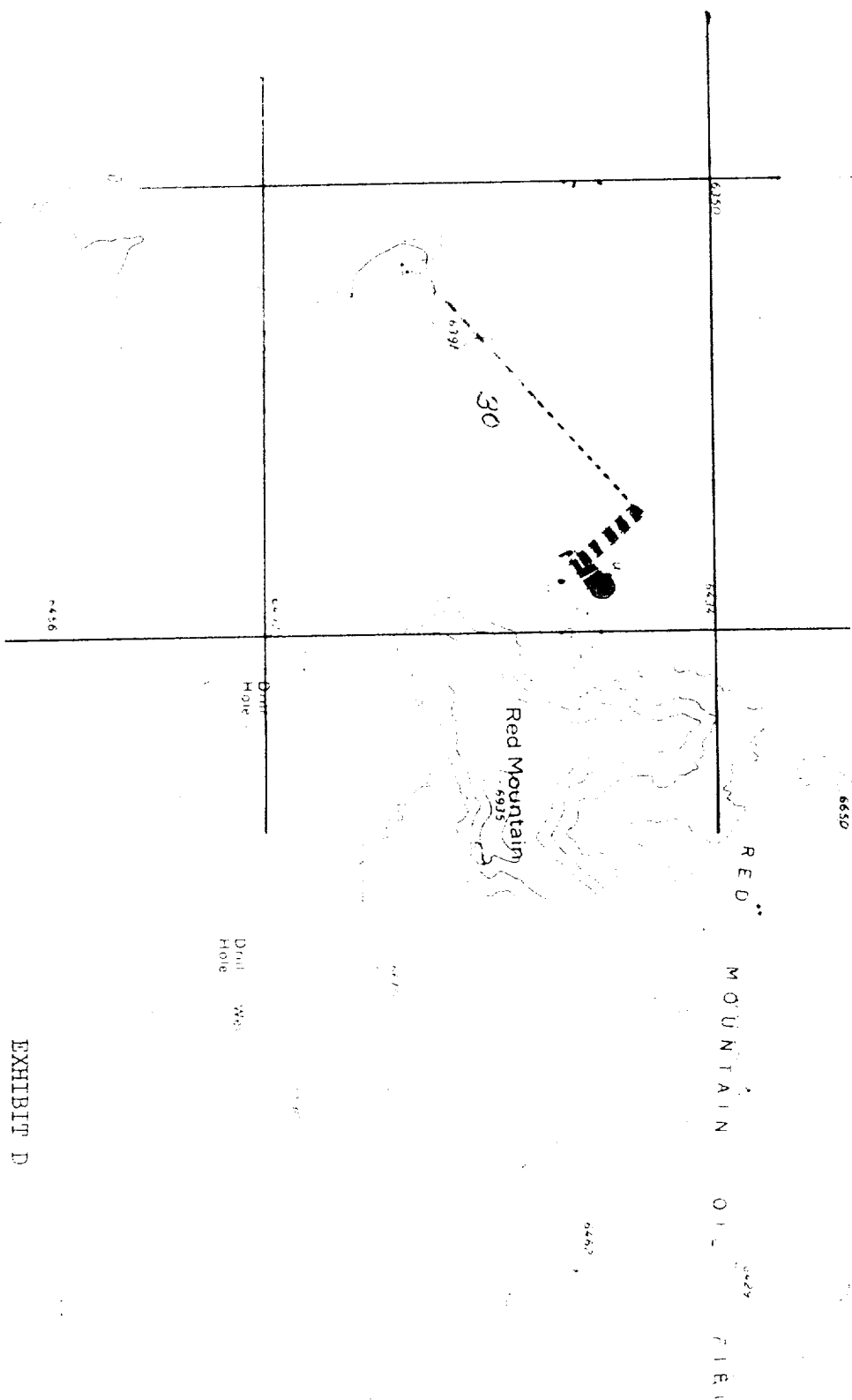


EXHIBIT D

- Proposed Location
- New Road
- Existing Road

983)
331C)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

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

Geo Engineering, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1417, Socorro, New Mexico 87801

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

At surface 1322; FNL, 609; FEL
At proposed prod. zone

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

9¹ From White Horse

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 609'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 330'

21. ELEVATIONS (Show whether DP, RT, GR, etc.) DRILLING OPERATIONS AUTHORIZED ARE 6461 GR SUBJECT TO COMPLIANCE WITH ATTACHED

23. "GENERAL REQUIREMENTS" PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
9"	7"	11# J-55	100
6-3/4"	4-1/2"	10# J-55	1000

5. LEASE DESIGNATION AND SERIAL NO.
N.M. 0254488
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal "A"
9. WELL NO.
4
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
H Sec. 30, T.20., R.9W
12. COUNTY OR PARISH
McKinley
13. STATE
N.M.

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
July 25, 1984

This action is subject to administrative appeal pursuant to 30 CFR 290.

QUANTITY OF CEMENT
35ft³
-256.5 cu ft

Operator proposes to drill a 9" hole to a depth of 100' and, then a 6-3/4" hole to a depth of 1100' to evaluate the Menefee sands of the mesa verde formation. If oil is encountered in economic quantities, 4-1/2" casing will be run to pay zone.

RECEIVED

JAN 23 1986

OIL CREDIT DIV
BUREAU OF LAND MANAGEMENT

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24. SIGNED James R. Woods TITLE Geologist DATE 8-15-84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE AS

CONDITIONS OF APPROVAL, IF ANY:

Held c-104
for NSL

*See Instructions On Reverse Side

JAN 23 1986
for M. McKee
J. Stan McKee

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the

All distances must be from the outer boundaries of the Section

Geo Engineering, Inc.		Lease		Federal "A" #N.M. 0254488		Well No. 4	
Section	30	Township	T. 20 N	Range	R. 9 W	County	McKinley
Footage Location of Well:							
1322	Feet from the North	Line and	609	Feet from the East	Line		
6461 GL	Producing Formation	Pool	Wildcat		Dedicated Acreage:	40	Acrea

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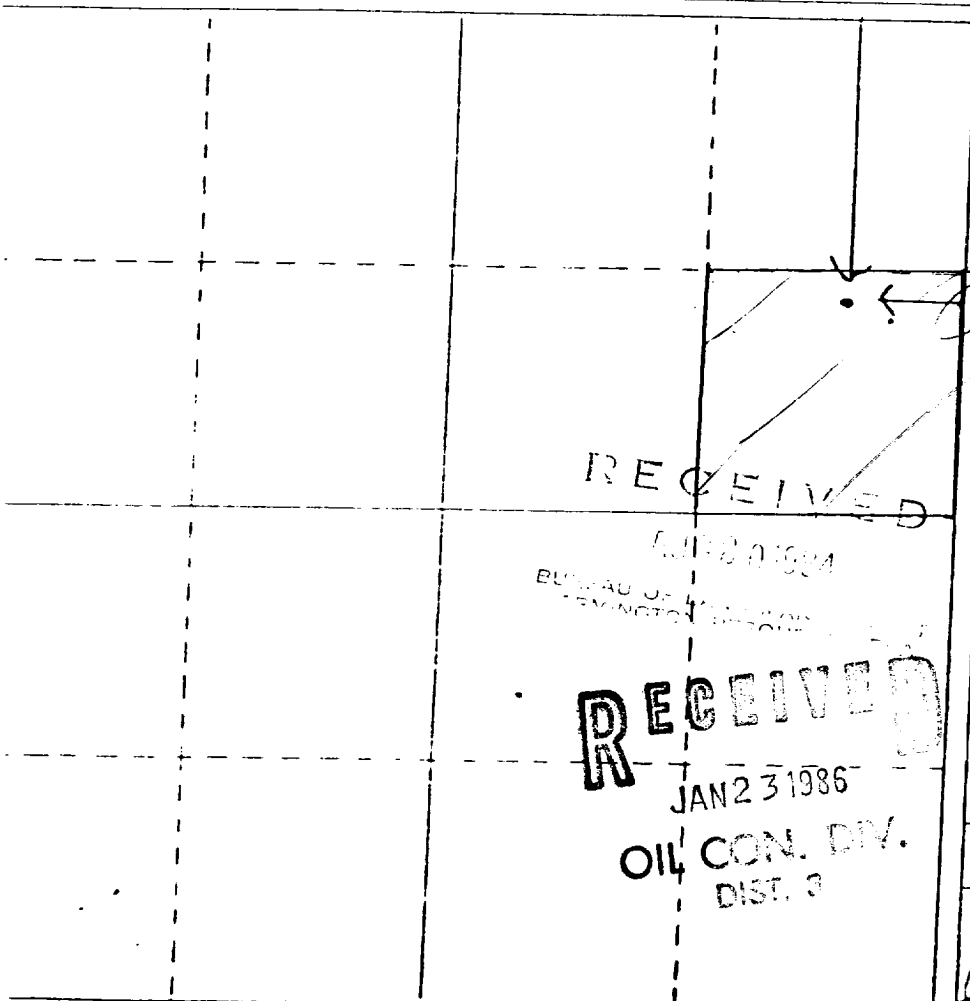
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James R. Woods
Position
Geologist
Company
Geo Engineering, Inc.
Date
August 15, 1984

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 3, 1984
Registered Professional Engineer
and/or Land Surveyor:
Jack J. Galt
Certificate No.
4051