

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-21937

5. LEASE DESIGNATION AND SERIAL NO.
NM-12021

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Gallegos Gallup Ext

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 27, T-27N-R13W

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

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
Dietrich Exploration Company, Inc.

3. ADDRESS OF OPERATOR
602 Midland Savings Bldg. Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1850' FSL & 790' FEL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Same
12 miles South of Farmington, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
790'

16. NO. OF ACRES IN LEASE
320

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1980'

19. PROPOSED DEPTH
5400

20. ROTARY OR CABLE TOOLS
Rotary

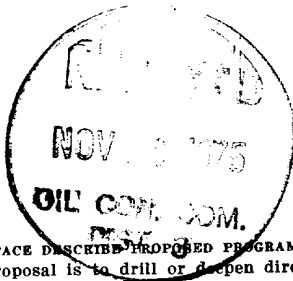
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6104 GR

22. APPROX. DATE WORK WILL START*
12-1-75

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
1 2 1/4"	8 5/8	24.0	225 Ft.	150 sacks
7 7/8"	4 1/2	10.5	5400 Ft.	200 sacks

Move in rotary tools. Set 8 5/8" casing @ 225 feet & cement with 150 sacks. Drill 7 7/8" hole to 5400 feet. Run open hole logs. If commercial production is indicated 4 1/2" casing will be set @ 5400 feet and cemented with 200 sacks. If well is non-commercial, same will be plugged & abandoned in accordance with U. S. G. S. specifications.



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U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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 Jack D. Cook TITLE Agent DATE 11-14-75
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OK

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes Order
No. 100-104

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

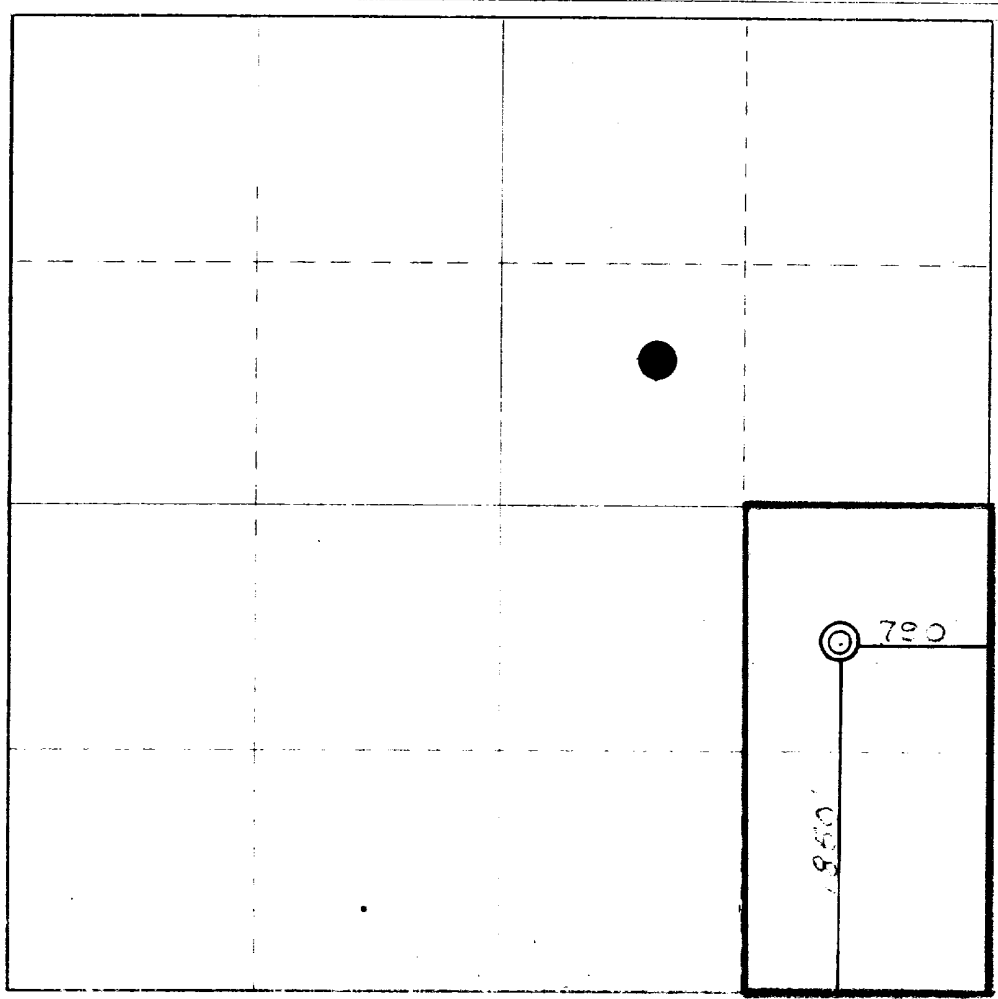
DIETRICH EXPLORATION CO., INC.		FEDERAL		2
I	27	27 NORTH	13 WEST	SAN JUAN
1850	SOUTH	790	EAST	
104	Gallup	Gallegos	Gallup Ext.	80

- 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).
One lease
- If more than one lease of different ownership is dedicated to the well, have the interests of each 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 (attach 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.

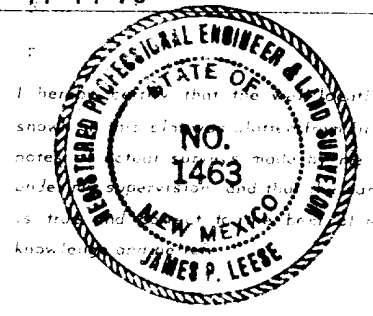
Jack D. Cook

Jack D. Cook

Agent

Dietrich Exploration Co., Inc.

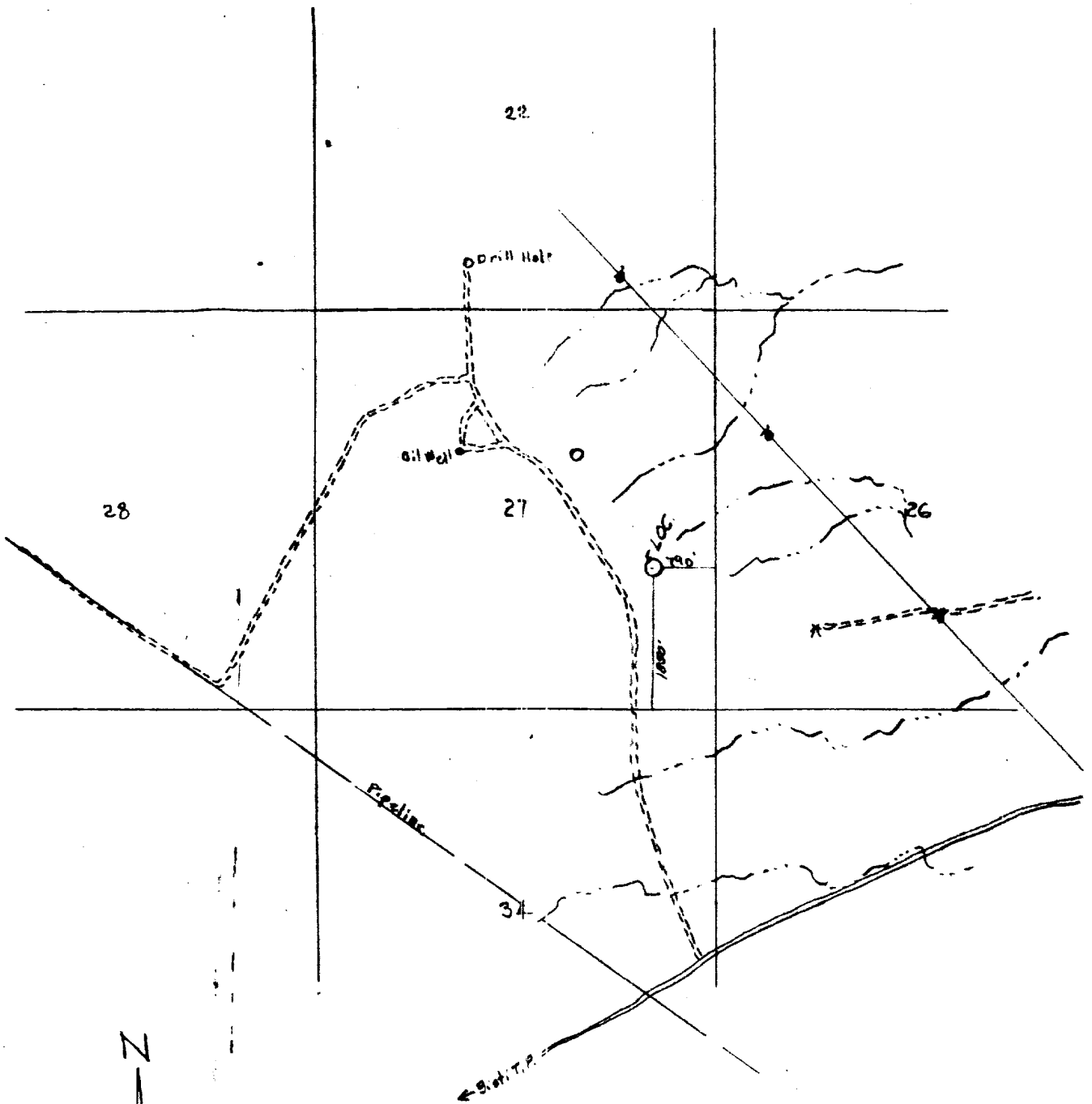
11-14-75



I hereby certify that the information shown on this plat is true and correct to the best of my knowledge and belief.

7 November, 1975

James P. Leese



VICINITY MAP FOR
DIETRICH EXPLORATION CO., INC.
Showing

Well Location in NE 1/4 SE 1/4 of
Sec 27, T27N, R13W, N.M.P.M.,
San Juan County, New Mexico

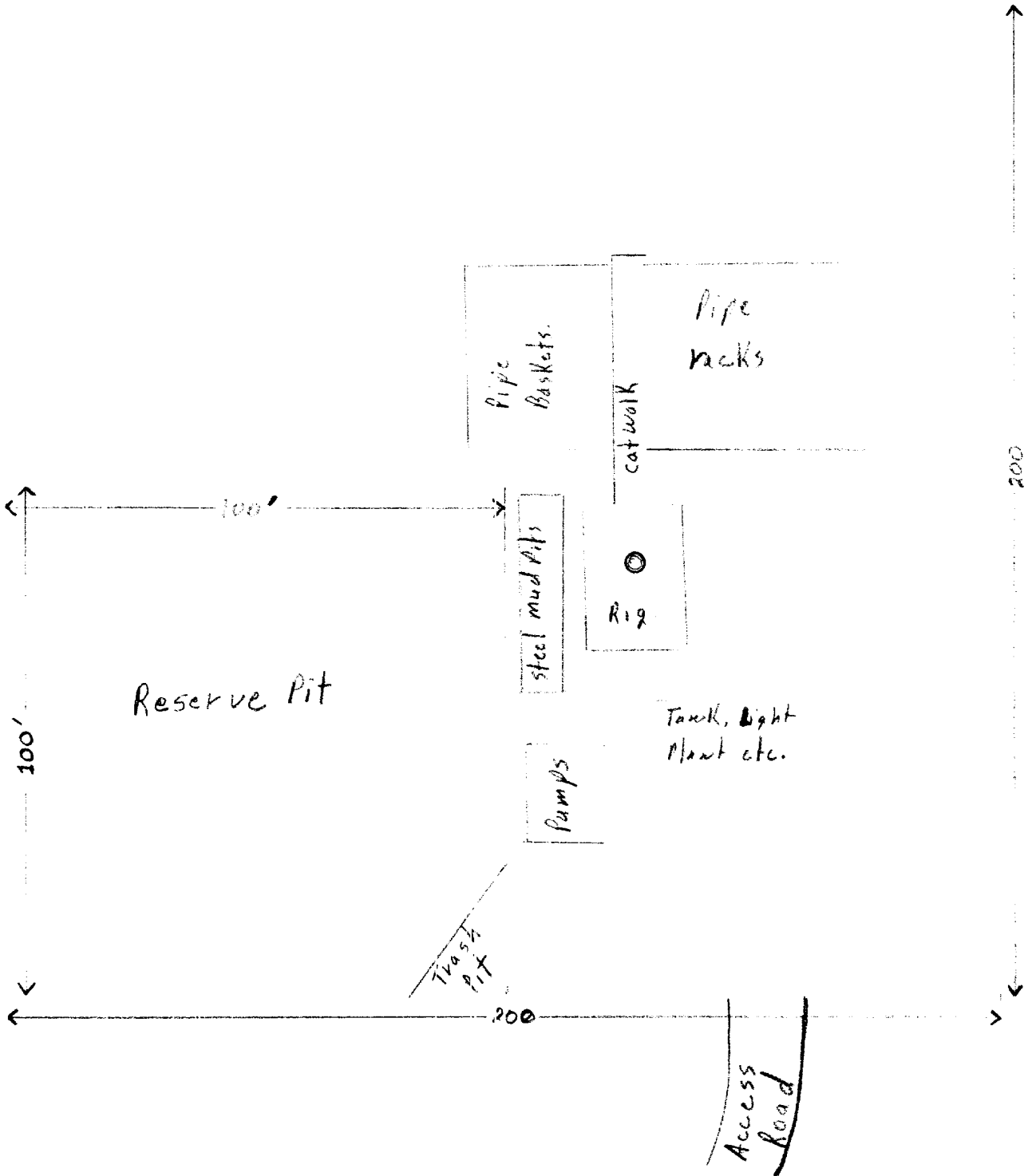
Scale 1" = 2000'

Date: 11/7/15

San Juan Engineering Company

Farmington, New Mexico

DRILL SITE PLAT



Scale 1" = 30 ft.

Dietrich Exploration Company, Inc.
Federal # 2
1850' FSL & 790' FEL
Sec 27-27N-13W
Gallegos Gallup Ext.
San Juan County, New Mexico

**SAN JUAN COUNTY MUSEUM ASSOCIATION
EASTERN NEW MEXICO UNIVERSITY
DIVISION OF CONSERVATION ARCHAEOLOGY**

ROUTE 3 • BOX 169
FARMINGTON, NEW MEXICO 87401

PHONES: 632-2013 • 632-2733 • 632-2777

November 14, 1975

Lietrich Exploration Co., Inc.
602 Midland Savings Building
444 17th Street
Denver, Colorado 80202

Gentlemen:

Enclosed you will find our report for archaeological clearance for your proposed oil well Federal No. 2 and associated access road and pipeline right-of-way. Archaeological clearance has been recommended.

Billing for the survey and report is also enclosed. If you have any questions regarding this report, please feel free to contact this office.

Very truly yours,

Pat Zarnowski
Division of Conservation Archaeology

Enc.

cc: Phil Kirk, Bureau of Land Management, Farmington.
Phillip McGrath, United States Geological Survey, Farmington.
Jim Hill, Allen Construction, Farmington.
✓ Jack Cook, Engineering & Production Service, Inc., Farmington.
Dr. John Haskell, Division of Conservation Archaeology, Portales.

**SAN JUAN COUNTY MUSEUM ASSOCIATION
EASTERN NEW MEXICO UNIVERSITY
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FARMINGTON, NEW MEXICO 87401

PHONES: 632-2013 • 632-2733 • 632-2777

Archaeological Clearance Survey Report

for

Dietrich Exploration Co., Inc.

November 14, 1975

by

Pat Zarnowski

Introduction

The Division of Conservation Archaeology of the San Juan County Museum Association and Eastern New Mexico University recently completed an archaeological clearance survey on land under the control of the Bureau of Land Management south of Farmington, to be impacted by the scheduled construction on an oil well, an access road, and a pipeline right-of-way.

The survey was initiated at the request of Jack Cook of Engineering & Production Service, Inc. It was administered by Jack Cook representing Dietrich Exploration Co., Inc. and by Dr. John L. Haskell who served as the principal investigator for the Division of Conservation Archaeology of the San Juan County Museum Association and Eastern New Mexico University.

The field work was conducted on November 12, 1975 by Pat Zarnowski representing the Division of Conservation Archaeology under provisions of permit number 75-NM-006 issued by the Bureau of Land Management. Other representatives in the field were Jack Cook of Engineering & Production Service, Inc. representing Dietrich Exploration Co., Inc., Jim Hill of Aller Construction, Bob Moore of the Bureau of Land Management, and Greg Majkrzak of the United States Geological Survey.

Survey

The requested archaeological clearance survey involved the following proposed oil well pad, access road, and pipeline right-of-way located in San Juan County, New Mexico. (For specific details as to location see the attached plats and copy of topographic map and also the recommendation

section of this report.)

Federal No. 2: This proposed well is to be located on a rolling plain which has intermittent gullies that drain to the northeast into Hugh Lake. The predominate vegetation was Mormon tea (*Ephedra trifurca*), and Indian ricegrass (*Crypsopsis hymenoides*). There were sparse amounts of prickly pear cacti (*Opuntia* spp.) and yucca (*Yucca* spp.). As to the animal life present, rabbit droppings were noted and also cow trails and cow dung.

The pad area, which is approximately two acres, was surveyed by walking it in a zig zag manner and visually inspecting the surface. No artifacts or cultural material were found. The access road, which was flagged at the time of survey and is to run in a southwesterly direction from the pad area for approximately 800 feet to an existing road, was surveyed in the same manner and found to be sterile of archaeological material. The pipeline right-of-way was also flagged at the time of survey. It is to be approximately 1800 feet long and will run in a northwesterly direction from the pad area to an existing well. The same manner of survey was used here and no artifacts were found here either.

Recommendations

<u>Well</u>	<u>Size</u>	<u>Location</u>	<u>Clearance Status</u>
Federal No. 2	Pad: approximately 2 acres.	790 feet from the east line and 1,850 feet from the south line in the Northeast $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ of Section 27, Township 27 North, Range 13 West, San Juan County, New Mexico. Map source: Hugh Lake 7.5 Minute Quadrangle.	Recommended
	Pipeline right-of-way: approximately 50 feet by 1,850 feet.	From the above location to the Southwest $\frac{1}{4}$ of the Northeast $\frac{1}{4}$ of the same section, township, and range.	Recommended
	Access road: approximately 50 feet by 800 feet.	Northeast $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ of the same section, township and range.	Recommended

Due to the lack of cultural or archaeological evidence found in these proposed areas, it is recommended that archaeological clearance be granted immediately.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-12
Supersedes O-12
Effective 1-1-60

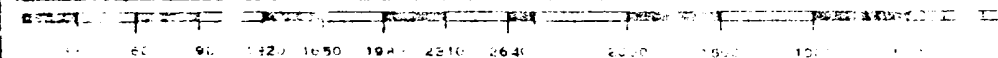
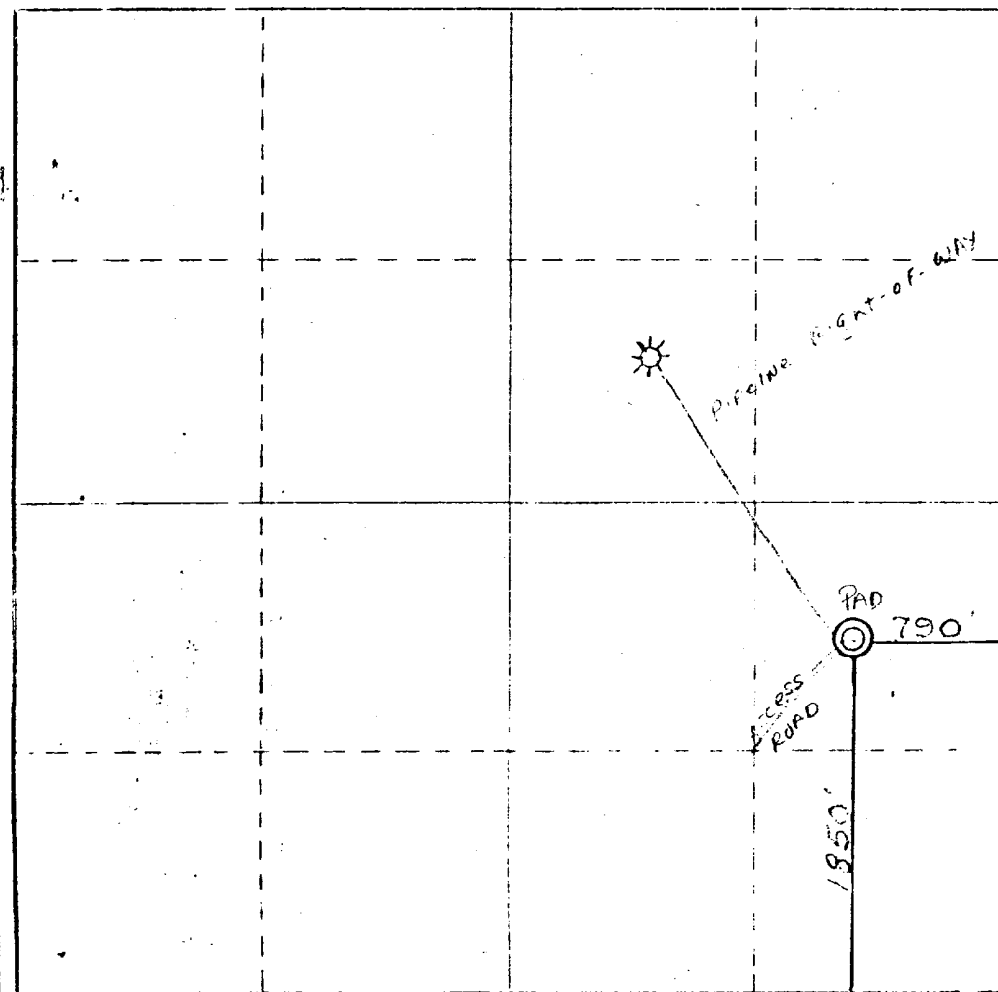
All distances must be from the outer boundaries of the location.

Operator DIETRICH EXPLORATION CO., INC.		Lease FEDERAL			Well No. 2
Unit No.	Section 27	Township 27 NORTH	Range 13 WEST	County SAN JUAN	
Actual Well Location of Well:					
Ground Level Elev. 5104	Set from the SOUTH line and		790	feet from the EAST line	
Producing Formation			Pool	Estimated Acreage	

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

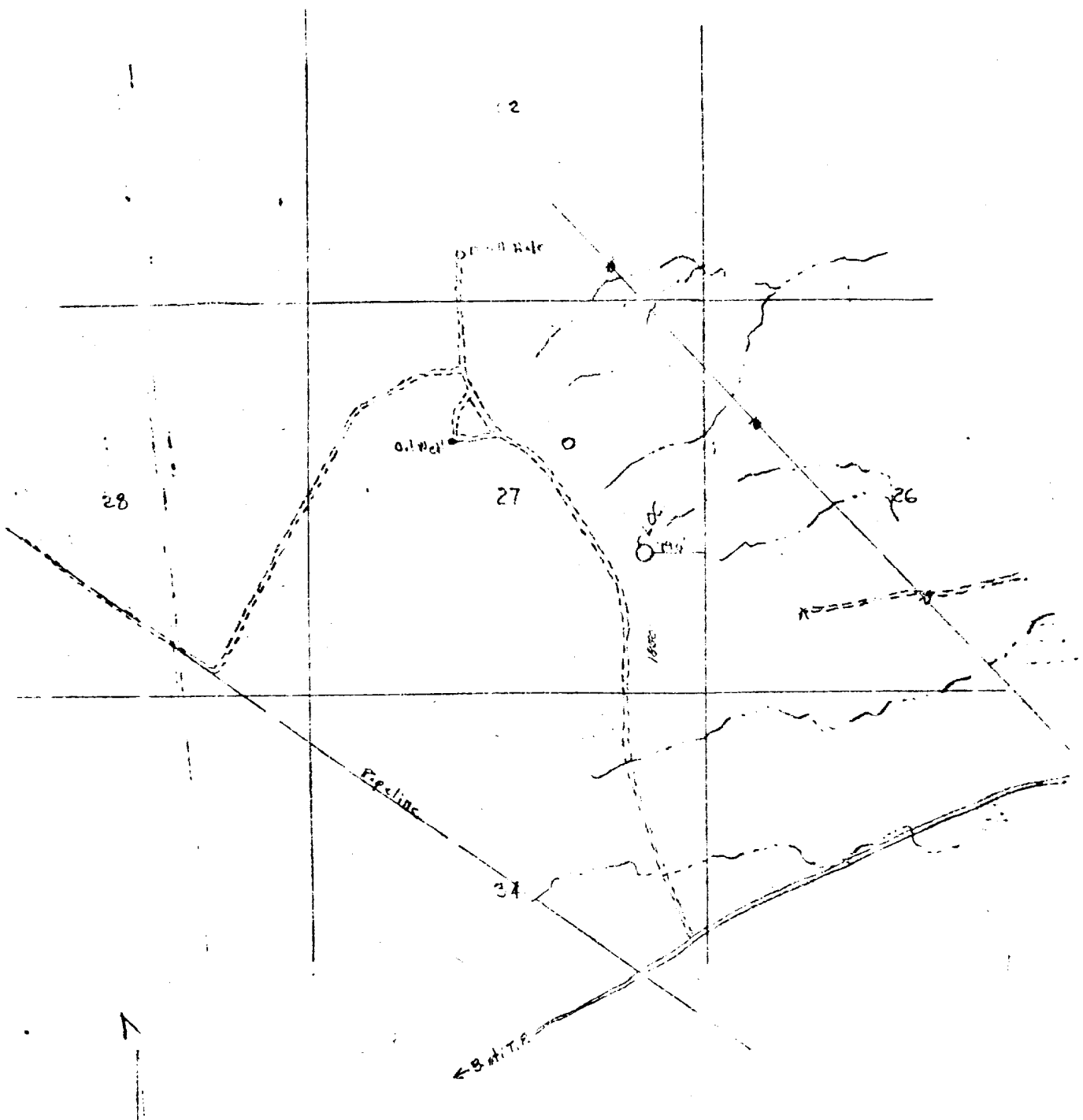
Name _____
 Location _____
 Company _____
 Date _____

I hereby certify that the information shown on this plat or platting field notes, if any, made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Approved
7 November, 1975

Registered Professional Engineer
 State of New Mexico
James P. Leese

Certificate No.
1463



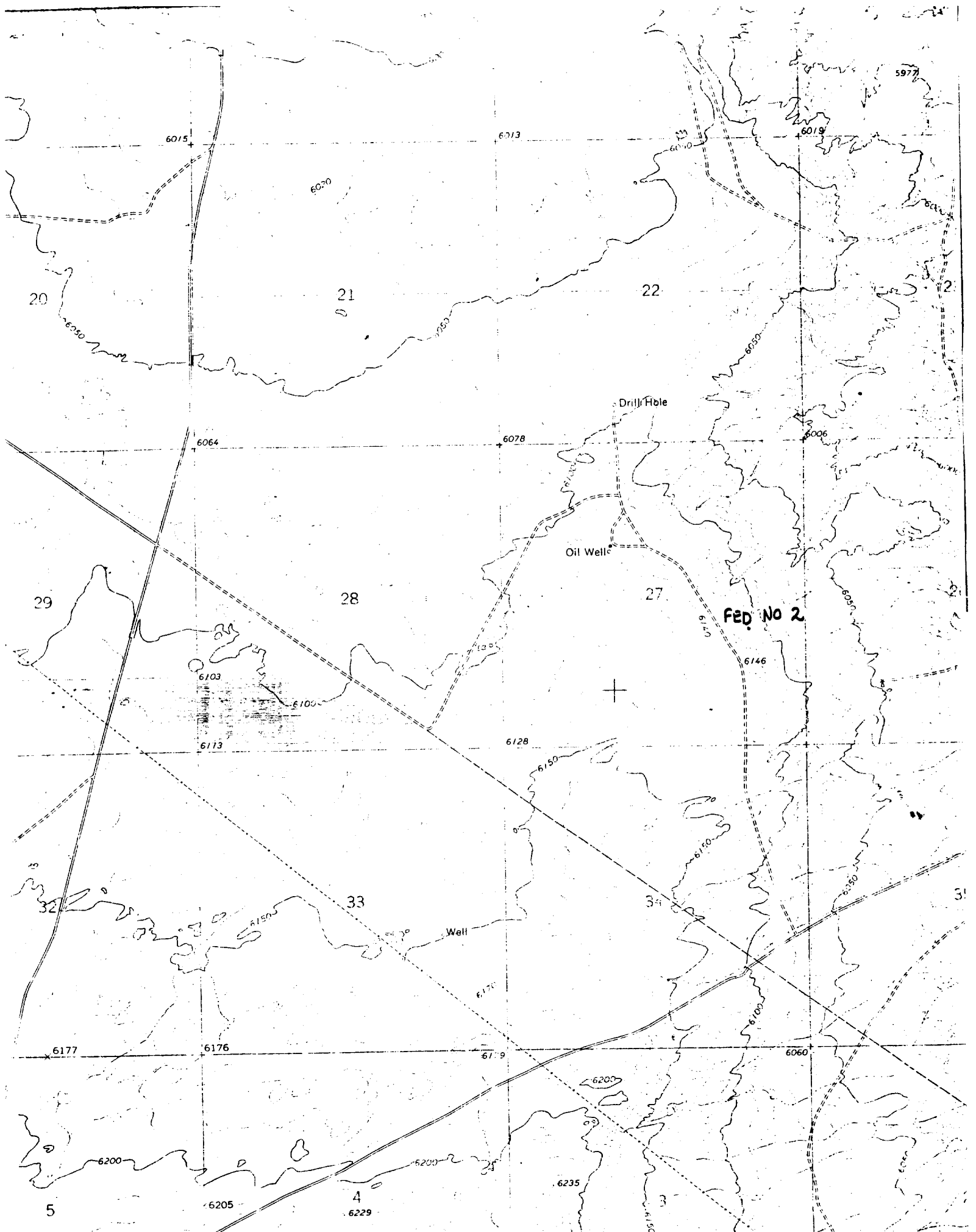
VICINITY MAP FOR
DIETRICH EXPLORATION CO., INC.
Showing

Well Location in NE 1/4 SE 1/4 of
Sec 27, T27N, R13W, N.M.P.M.,
San Juan County, New Mexico

Scale 1" = 2000' Date 11/7/75

San Juan Engineering Company

Albuquerque, New Mexico



ENGINEERING & PRODUCTION SERVICE, Inc.

P. O. BOX 190 -- PH. 325-1924

FARMINGTON, NEW MEXICO 87401

November 14, 1975

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U. S. GEOLOGICAL SURVEY

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

Attn: Mr. P. T. McGrath
District Engineer

Re: Development Plan for
surface use
Dietrich Exploration Co., Inc.
Federal #2
1850' FSL & 790' FEL
Sec 27-27N-13W
Gallegos Gallup Ext.
San Juan County, N. M.

Gentlemen:

Enclosed please find "Application for Permit to Drill" (form #9-331-C), pertinent to Dietrich Exploration Company, Inc. Federal #2. Attached to the application are the following reports: Archaeological report, surveyors plat, drill site plat and vicinity map. Mr. Bob Moore of the BLM and Greg Majkrzak of the USGS have inspected the proposed location.

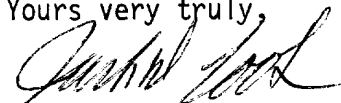
Development plan for surface use is as follows:

- 1,2,3,4,5, & 10: Vicinity map and drill site plat attached.
6. Water for drilling and completion will be trucked from the San Juan River, approximately 12 miles to the North.
7. A waste disposal pit will be provided for the garbage and trash. Location shown on drill site plat.
8. No camp.
9. No air strip.
11. Should the well be a commercial producer, it will be equipped to facilitate producing operations with all drilling pits filled, location leveled with reseeding of the area not used for day to day operations. In the event the well would be dry, all pits will be filled, location leveled and well site reseeded in compliance with BLM specifications. During dry out time required for the reserve pit, it will be fenced to eliminate livestock entry.

12. Location is located on top of a mesa. The soil is very sandy with vegetation normal for the climatic conditions. There are no trees on or near the drill site.

Should you desire further information concerning this application, please advise.

Yours very truly,

A handwritten signature in black ink, appearing to read "Jack D. Cook", written in a cursive style.

Jack D. Cook

JDC/bh