

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 30-045-2274 NM-12021	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Dietrich Exploration Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 602 Midland Savings Bldg., 444 17th St., Denver, CO 80202		8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1850' FNL & 1850' FEL At proposed prod. zone same		9. WELL NO. 5	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles south of Farmington, New Mexico		10. FIELD AND POOL, OR WILDCAT WAW Pictured Cliff Ex	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 27 - 27N - 13W	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 130'		12. COUNTY OR PARISH San Juan	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6135 GL		13. STATE New Mexico	
16. NO. OF ACRES IN LEASE 320		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	
19. PROPOSED DEPTH 1500'		20. ROTARY OR CABLE TOOLS rotary	
22. APPROX. DATE WORK WILL START* 9-26-77			

## 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	35'	10
4 3/4	2 7/8	6.5	1500'	125

Move in - rig up rotary tools. Drill 7 7/8" hole to 35'. Set 5 1/2" casing at 35' and cement as above. Drill 4 3/4" hole to 1500'. Run open hole logs to evaluate Pictured Cliffs formation. If commercial production is indicated, 2 7/8" casing will be set at 1500' and cemented as above. If well is non-commercial, same will be plugged and abandoned in accordance with U.S.G.S. specifications. No abnormal pressure or temperatures are expected. Mud will have following characteristics: wt. 9.0±, WL 10-15, viscosity 32-35 seconds.

Projected formation tops are Kirtland 195', Fruitland 1000', Pictured Cliff 1408'

Gas under this lease is committed to an existing contract.

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 TITLE Agent DATE 9-19-77

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*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.

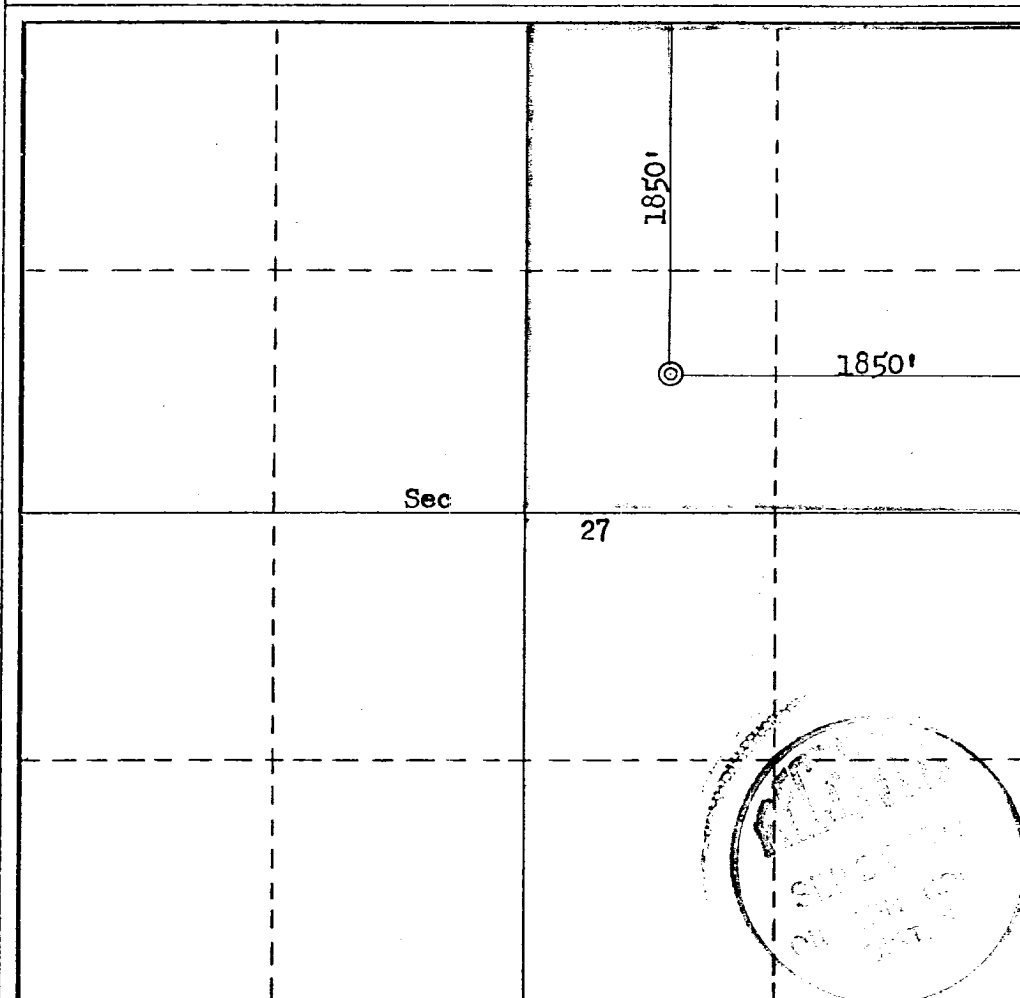
Operator <b>Dietrich Exploration Company, Inc.</b>			Lease <b>Federal</b>		Well No. <b>5</b>
Unit Letter <b>G</b>	Section <b>27</b>	Township <b>27N</b>	Range <b>13W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>1850</b> feet from the <b>North</b> line and <b>1850</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6135</b>	Producing Formation <b>Pictured Cliff</b>		Pool <b>WAW Pictured Cliff</b>	Dedicated Acreage: <b>160</b> 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

**Dietrich Exploration Company**

Date

**9-19-77**

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

**September 9, 1977**

Registered Professional Engineer and/or Land Surveyor

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

Certificate No.

**3950**



# 3E COMPANY, INC.

*Engineering • Energy • Exploration*

P. O. Box 190 — 505/327-4020

FARMINGTON, NEW MEXICO 87401

September 19, 1977

RECEIVED

SEP 21 1977

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

U. S. GEOLOGICAL SURVEY  
FARMINGTON, NM

Attention: Mr. Phil T. McGrath

RE: Development Plan for Surface Use  
Dietrich Exploration Company  
Federal #5  
1850' FNL & 1850' FEL  
Sec 27, T27N, R13W  
WAW Pictured Cliff  
San Juan County, New Mexico

Gentlemen:

Attached is the "Application for Permit to Drill" (form #9-331C) for the captioned well. Attached as support data for the Development Plan are the following items: Surveyor's Plat, Drill Site Plat and Vicinity Map. The subject well will be drilled on the existing location that contains the Federal #1, a producing Gallup well. The site was Archaeologically cleared when the Federal #1 well was drilled, so a second inspection was not necessary.

The development plan for surface use is as follows:

Points 1, 2 3, 4, 6, and 9. Vicinity map and drill site plat attached.

Point 5. Water for drilling will be trucked from the San Juan River approximately eithteen 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 the pits will be covered.

Point 8. No camps or airstrip.

Point 10. Should the subject 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 is a dry hole, all pits will be filled, location leveled and reseeded. During dry out time required for the reserve pit, it will be fenced to eliminate livestock entry. All reseeding will be done between July 1, and September 15, with equipment specified by the BLM. The seed mixture will be that specified for Area III in the Farmington Resource Area.

Point 11. The topography of the area is that of rolling knolls with ridge of sand dunes. No trees are present with vegetation being normal for climatic conditions.

Point 12. William T. Jones  
3E Company, Inc.  
P.O. Box 190  
Farmington, NM 87401  
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 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 Dietrich Exploration Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

9-19-77

William T. Jones  
William T. Jones

Should further information be required, please advise.

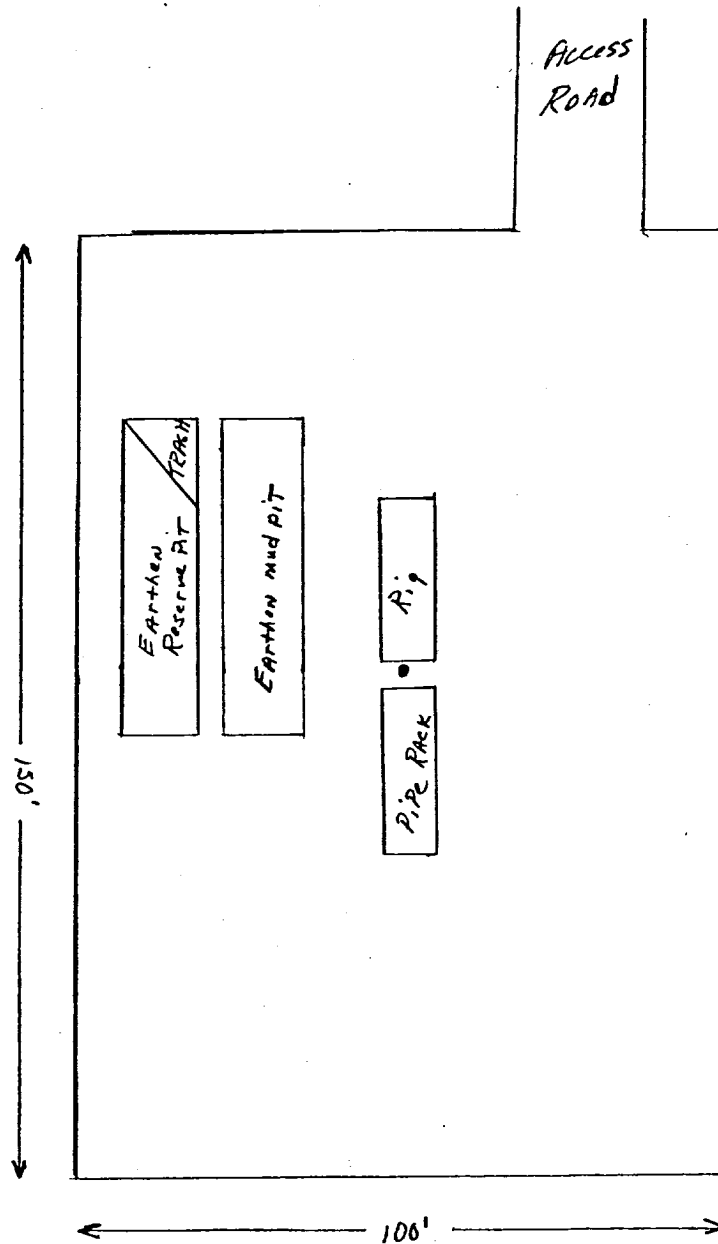
Yours very truly,

William T. Jones  
William T. Jones

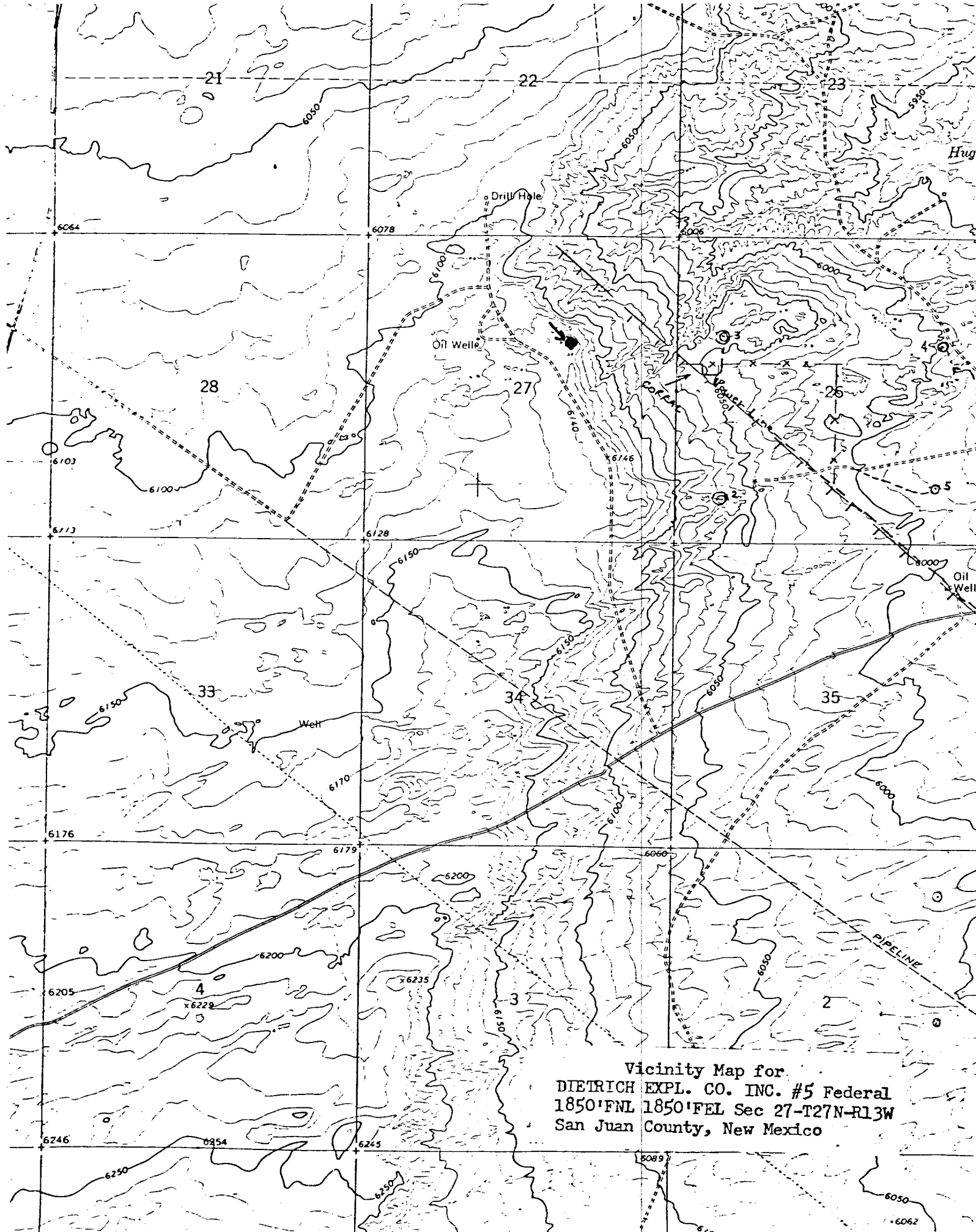
WTJ:st

Attachments

# Well site PLAT



DIETRICH EXPLORATION COMPANY  
 FEDERAL #5  
 1850' FNL & 1850' FEL  
 Sec 27 - 27N - 13W  
 WAW Pictured Cliff  
 San Juan County, New Mexico



Vicinity Map for  
DIETRICH EXPL. CO. INC. #5 Federal  
1850'FNL 1850'FEL Sec 27-T27N-R13W  
San Juan County, New Mexico