

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-046-23013  
5. LEASE DESIGNATION AND SERIAL NO.

NM-33046

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 34

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Fruitland -  
WAW Pictured Cliffs11. SEC., T., E., M., OR BLK.  
AND SURVEY OR AREA

Sec. 34, T27N, R13W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

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

3. ADDRESS OF OPERATOR

602 Midland Savings Bldg; 444 Seventeenth St.; Denver, CO 80202

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

At surface

790' FNL &amp; 790' FEL

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 drig. unit line, if any)

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

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

19. PROPOSED DEPTH

1500

20. ROTARY OR CABLE TOOLS

ROTARY

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

6104 G.L.

22. APPROX. DATE WORK WILL START\*

April 20, 1978

23.

## 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            | 40            | 50 sk.             |
| 4 3/4        | 2 7/8          | 6.5             | 1500          | 125 Sk.            |

(See attachments)

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

John Alexander

TITLE

AGENT

DATE 4-10-78

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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.

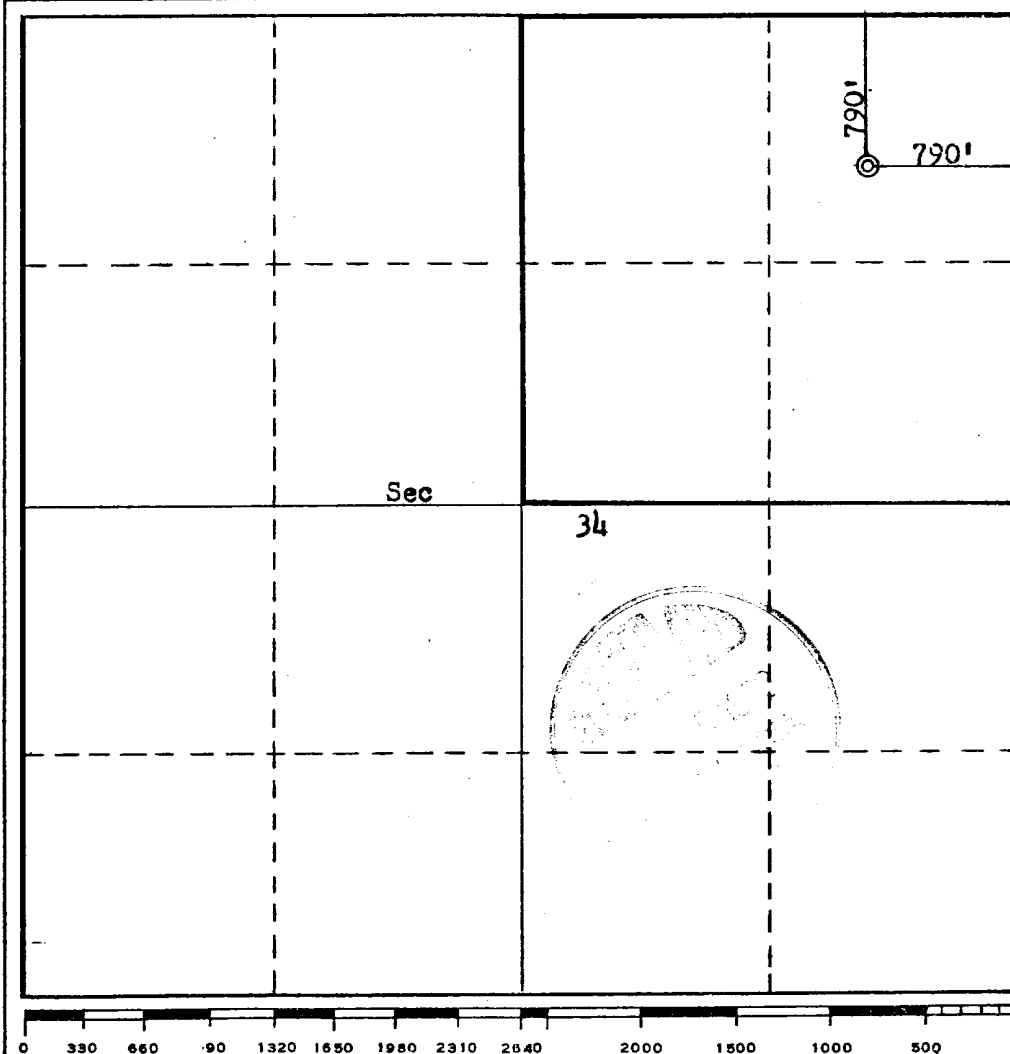
|   |   |  |  |                           |                      |
|---|---|--|--|---------------------------|----------------------|
| Operator<br><b>Dietrich Exploration Company, Inc.</b> |   |  | Lease<br><b>Federal 34</b>             |                           | Well No.<br><b>1</b> |
| Unit Letter<br><b>A</b>                               | Section<br><b>34</b>                          | Township<br><b>27N</b>                         | Range<br><b>13W</b>                    | County<br><b>San Juan</b> |                      |
| Actual Footage Location of Well:                      |   |  |  |                           |                      |
| <b>790</b> feet from the <b>North</b> line and        |   | <b>790</b> feet from the <b>East</b> line      |  |                           |                      |
| Ground Level Elev.<br><b>6104</b>                     | Producing Formation<br><b>Pictured Cliffs</b> | Pool<br><b>Fruitland - WAW Pictured Cliffs</b> | Dedicated Acreage:<br><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.

*John Alexander*  
Name

**John Alexander**  
Position

**Agent**

Company  
**Dietrich Exploration**

Date  
**4-14-78**

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  
**April 14, 1978**

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr Jr.*  
Certificate No.

**3950**  
**F. B. KERR, JR.**

DIETRICH EXPLORATION COMPANY  
DEVELOPMENT PLAN FOR SURFACE USE

WELL:

Federal 34 No. 1

LOCATION:

790' FNL & 790' FEL  
Sec 34, T27N, R13W  
San Juan Co., New Mexico

LEASE NUMBER:

NM-33046

1) Existing Roads. (Shown in green.)

The attached topographic map shows all existing roads within one mile of the proposed location. Access will be made to county road 3/4 mile south of the location.

All existing roads are in good condition and will not have to be up-graded to handle normal drilling activity traffic.

2) Planned access road. (Shown in red.)

The planned access road will be 200' long and 20' wide. Maximum grade will be 5%. No turnouts or culverts will be required. Water bars will be used to aid drainage and prevent erosion. No surfacing material will be required. No gates, cattle guards, or fences will be crossed. No cuts or fills should be required.

3) Location of existing wells:

All wells (water, abandoned, disposal, and drilling) are shown and so labeled on the attached topographic map.

4) Location of tank batteries, production facilities and production, gathering and service lines:

All production facilities are to be contained within the proposed location. All other facilities owned or controlled by Dietrich Exploration are shown on the attached topographic map.

5) Location and type of water supply:

Water for drilling will be trucked from El Paso Natural Gas Chaco Plant, located 6 miles southeast of location. This water is privately owned.

6) Source of construction material:

Any construction material required for road or location will be excess material accumulated during building of such sites.

7) Methods of handling waste disposal:

(Refer to attached well site layout.)

All burnable material will be burned in the trash pit when conditions permit. All non-burnable material (drilling fluids, cuttings, chemicals, etc.) will be held in the reserve pit and buried when dry. Any oil produced while drilling will be trucked from the location prior to leaving the pit to dry. Pits will be fenced during dry-out time, then completely back-filled with dirt prior to preparing the location for production or abandonment.

8) Ancillary Facilities:

No ancillary facilities are planned.

9) Well site layout:

The attached layout shows the drilling rig with all facilities. Cut and fill required is also indicated.

10) Plans for restoration of surface:

Restoration of well site and access road will begin within 90 days of well completion, weather permitting.

Should the well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed and leveled. Both site and road will have top soil replaced and will be reseeded when germination can occur.

Should the well be commercial, that portion of the location, not needed for operation, will be repaired as above. The portion needed for daily production operations, and the access road, will be maintained in good repair.

In either case, clean up of the site will include burning any safely burnable material, filling of all pits, carrying away of all non-burnable material and chemicals that can not be buried. Any oil that has accumulated on the pits will be trucked away.

11) Other information:

General topography of the area may be seen on the attached map.

The drilling site is flat and is covered with sage brush and other native grasses. There are no creeks, rivers or ponds in the area. The soil is sandy loam. Small animals and sheep inhabit the area.

The surface is part of the Navajo Irrigation Project, administered by the Bureau of Indian Affairs.

There are no occupied dwellings in the area.

There are no archaeological or cultural sites visible on the location. The archaeologist report is forth coming.

- 12) John Alexander  
3E Company, Inc.  
P.O. Box 190  
Farmington, NM 87401  
Phone: 505-327-4020
- 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 the 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.

4-14-78

John Alexander  
John Alexander

Should further information be desired, please advise.

Yours very truly,

John Alexander  
John Alexander

JA:dew

Attachments

DIETRICH EXPLORATION COMPANY  
FORMATION INFORMATION AND DRILLING PROCEDURES

WELL:

Federal 34 No.1

LOCATION:

790' FNL & 790' FEL  
Sec. 34, T27N, R13W  
San Juan Co., New Mexico

LEASE NUMBER:

NM-33046

1) Geologic name of surface formation:

Ojo Alamo

2) Estimated tops of important geologic markers:

|                 |       |
|-----------------|-------|
| Kirtland        | 159'  |
| Fruitland       | 964'  |
| Pictured Cliffs | 1327' |

3) Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected:

|       |     |
|-------|-----|
| 964'  | Gas |
| 1327' | Gas |

4) Proposed casing program:

Surface - 5½", 14.0 lb/ft, K-55, used casing, to be set at 40'. Cement to be 50 sk. Class "B" with 2% CaCl<sub>2</sub>.

Production - 2 7/8", 6.4 lb/ft J-55, used to be set at 1500'. Cement to be 125 sk. Class "B".

5) Specifications for pressure control equipment:

The attached schematic shows the type of blow out preventer to be used while drilling. The unit will be tested to 200 psi. as soon as possible after its installation on the surface pipe. Testing will be done with the rig pump. This is a manual type preventer, and its operation will be manually checked when practical.

6) Drilling fluids:

| Depth   | Type     | Viscosity | Weight  | Fluid Loss |
|---------|----------|-----------|---------|------------|
| 0-1500' | gel-lime | 35-55     | 8.9-9.2 | 15 C.C.    |

7) Auxiliary equipment:

- (a) Bit float
- (b) Full opening valve for stabbing in drill pipe when the kelly is not in use

8) Logging - Coring - Drill Stem Testing:

Logging-Induction Electric Log, Formation Compensated Density-Compensated Neutron log, Gamma ray, Caliper

Coring-None

Drill Stem Testing-None



9) Abnormal temperatures, pressures, or hazardous conditions:

None expected.

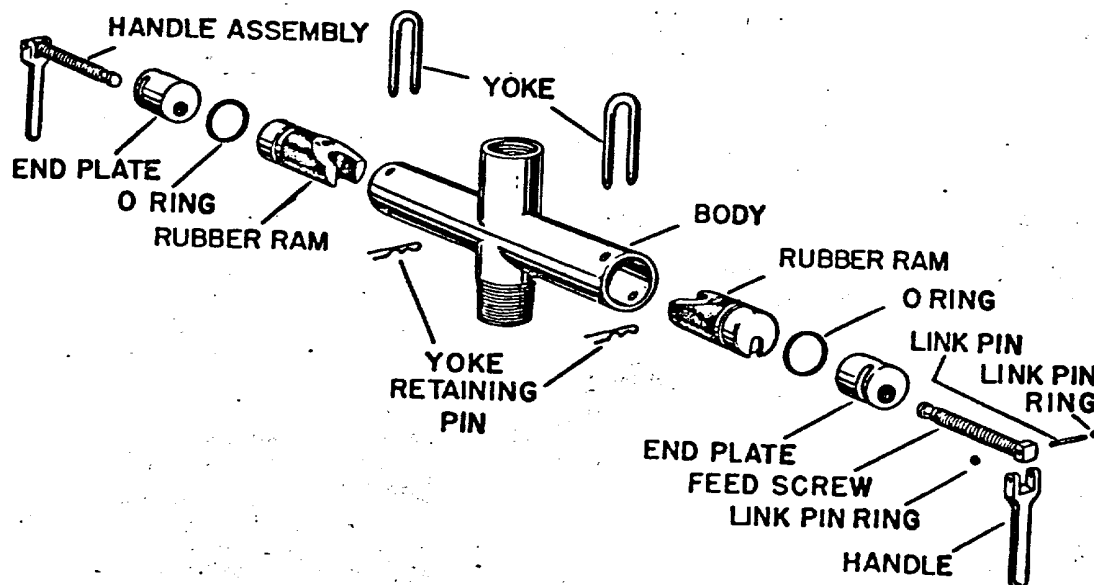
10) Starting date:

Anticipated starting date is April 20, 1978, approximately 5 days will be needed to build roads and location and drill the well to total depth. If commercial, completion will commence immediately and require approximately 3 days to complete.

## G TUBING BLOWOUT PREVENTERS

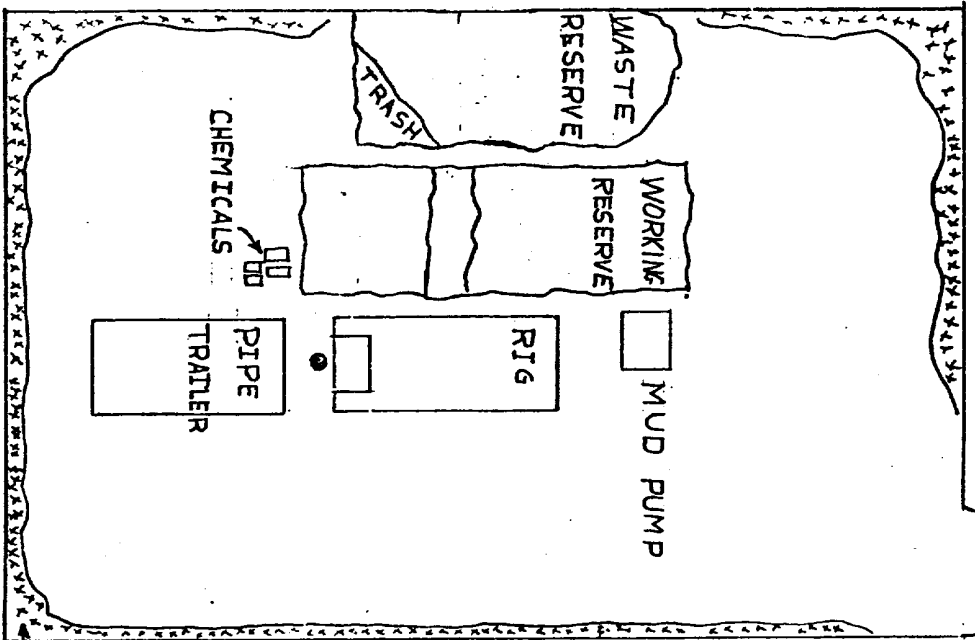
### G BLOWOUT PREVENTER RAMS

| PREVENTER SIZE  | 2-3/8"   | 2-7/8"   | 3-1/2"   |
|-----------------|----------|----------|----------|
| RAM I.D. INCHES | Part No. | Part No. | Part No. |
| Blank.....      | 28262    | 28263    | 28264    |
| 9/16".....      | 59383    | 45019    | 59388    |
| 5/8".....       | 44948    | 44969    | 59393    |
| 3/4".....       | 59391    | 41502    | 59410    |
| 7/8".....       | 59392    | 54571    | 59389    |
| 1".....         | 59384    | 59386    | 45903    |
| 1.050".....     | 44949    | 41424    | 45056    |
| 1-1/8".....     | 28354    | 28336    | 28365    |
| 1-1/4".....     | 28355    | 28331    | 28366    |
| 1.315".....     | 45055    | 44109    | 44057    |
| 1-3/8".....     | 44730    | 59387    | 44964    |
| 1-1/2".....     | 28356    | 28337    | 28367    |
| 1-5/8".....     | 59385    | 46780    | 59390    |
| 1.660".....     | 45462    | 43629    | 44963    |
| 1-3/4".....     | 28357    | 28346    | 28368    |
| 1.900".....     | 45463    | 43630    | 45609    |
| 2.063".....     | .....    | .....    | 59394    |



ATTACHMENT TO POINT 5  
API SERIES 6" 600

ACCESS ROAD



PLAN VIEW 1"=30'  
ALL PITS-EARTHEN

LOCATION GRADE  
CUT & FILL 6" TOP SOIL

SOIL MATERIAL STOCKPILE

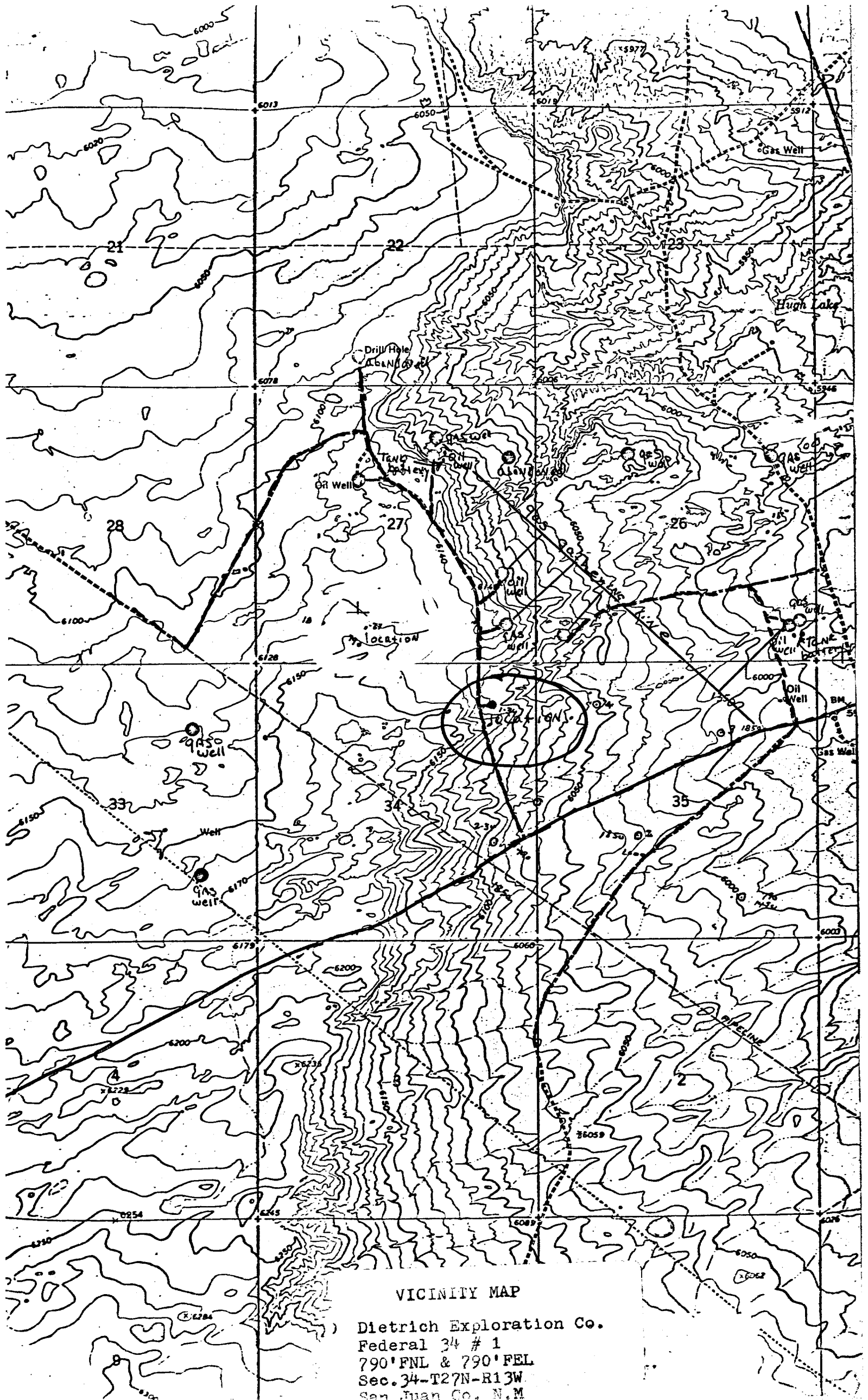


LOCATION GRADE

150'

WELL SITE LAYOUT  
DIETRICH EXPLORATION

CUT & FILL (SIDE) - 6" TOP SOIL 0



VICINITY MAP

Dietrich Exploration Co.  
Federal 34 # 1  
790' FNL & 790' FEL  
Sec. 34-T27N-R13W  
San Juan Co. N.M