

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
 DRILL  DEEPEN

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Richardson Operating Co. (303) 830-8000

3. ADDRESS AND TELEPHONE NO.  
 1700 Lincoln, Suite 1700, Denver, Co. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 1010' FSL & 920' FWL  
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 8 air miles NW of Farmington, NM

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 920'

16. NO. OF ACRES IN LEASE 1,120

17. NO. OF ACRES ASSIGNED TO THIS WELL SW 1/4 160/320

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3,499'

19. PROPOSED DEPTH 1,100'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,480' ungraded ground

22. APPROX. DATE WORK WILL START\* Upon Approval

5. LEASE DESIGNATION AND SERIAL NO.  
 NMNM-97843

6. IF IN MINN, MILLOTTE, OR TRIST NAME

7. UNIT AGREEMENT NAME N/A

8. FARM OR LEASE NAME, WELL NO. N/A 23904

9. API WELL NO. WF Fed. 29 #3

10. FIELD AND POOL, OR WILDCAT Tw. Mo. PC & Ba. Fr. Co.

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA M29-30n-14w NMPM

12. COUNTY OR PARISH San Juan

13. STATE NM

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT      |
|--------------|----------------------|-----------------|---------------|-------------------------|
| 8-3/4"       | 7" (K-55)            | 20#             | 120'          | ≈36 cu ft & to surface  |
| 6-1/4"       | 4-1/2" (K-55)        | 10.5#           | 1,100'        | ≈200 cu ft & to surface |

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.



DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

cc: BLM (& OCD), Colby

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 [Signature] TITLE Consultant (505) 466-8120 DATE 8-22-00

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 10/27/00

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 10/27/00

\*See Instructions On Reverse Side

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

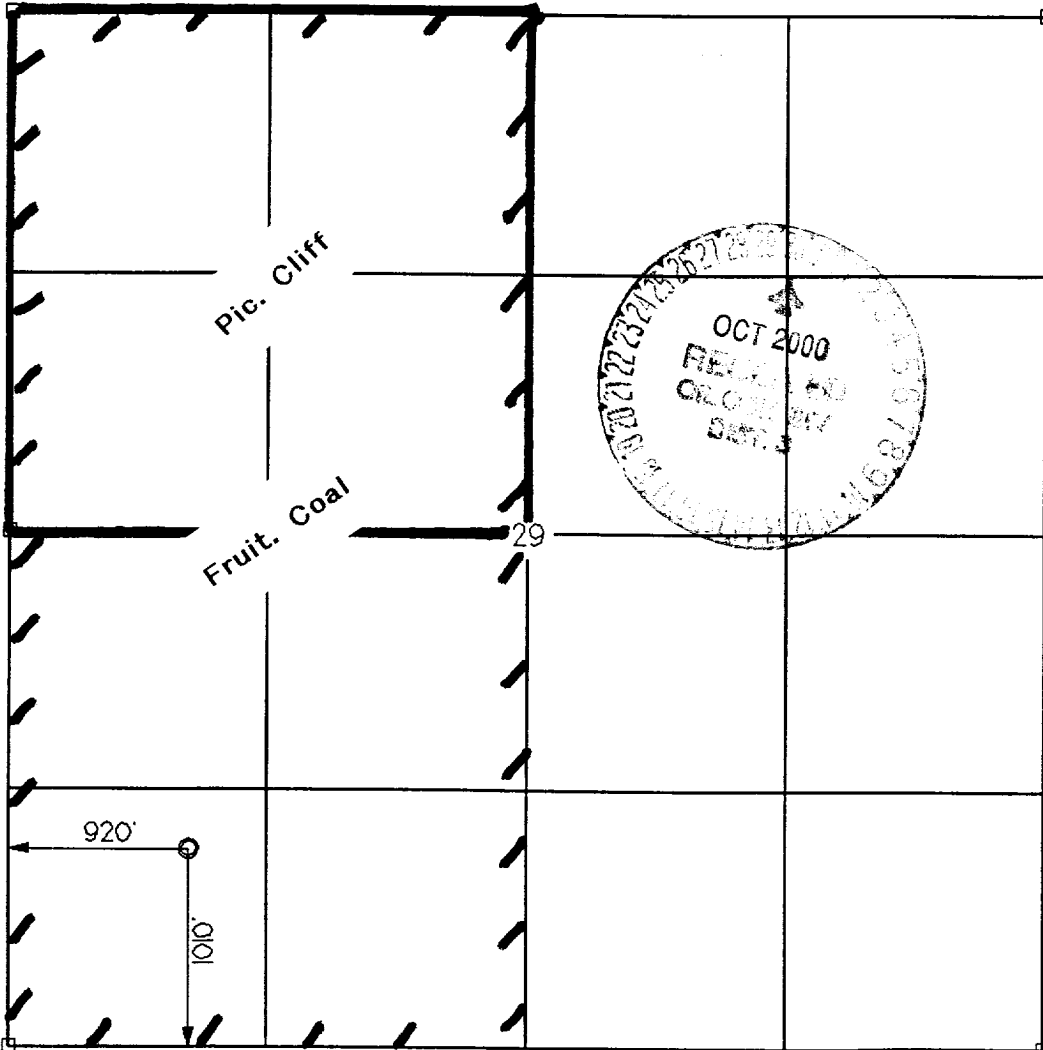
|                                   |   |   |
|-----------------------------------|---|---|
| APA Number<br><i>30-045-30347</i> | Pool Code<br>71629 & 86620                    | Pool Name<br>FRUIT. COAL & TWIN MOUNDS PC |
| Property Code<br><i>23904</i>     | Property Name<br>WF FEDERAL                   | Well Number<br>29 - 3                     |
| GRID No.<br>019219                | Operator Name<br>RICHARDSON OPERATING COMPANY | Elevation<br>5480 -                       |

| Surface Location |      |        |       |          |             |             |             |           |          |
|------------------|------|--------|-------|----------|-------------|-------------|-------------|-----------|----------|
| UL or Lot        | Sec. | Twp.   | Rge.  | Lot Idn. | Feet from > | North/South | Feet from > | East/West | County   |
| M                | 29   | 30. N. | 14 W. |          | 1010'       | SOUTH       | 920'        | WEST      | SAN JUAN |

| Bottom Hole Location If Different From Surface |      |      |      |          |             |             |             |           |        |
|--|------|------|------|----------|-------------|-------------|-------------|-----------|--------|
| UL or Lot                                      | Sec. | Twp. | Rge. | Lot Idn. | Feet from > | North/South | Feet from > | East/West | County |
| <i>1603 w/4</i>                                |      |      |      |          |             |             |             |           |        |

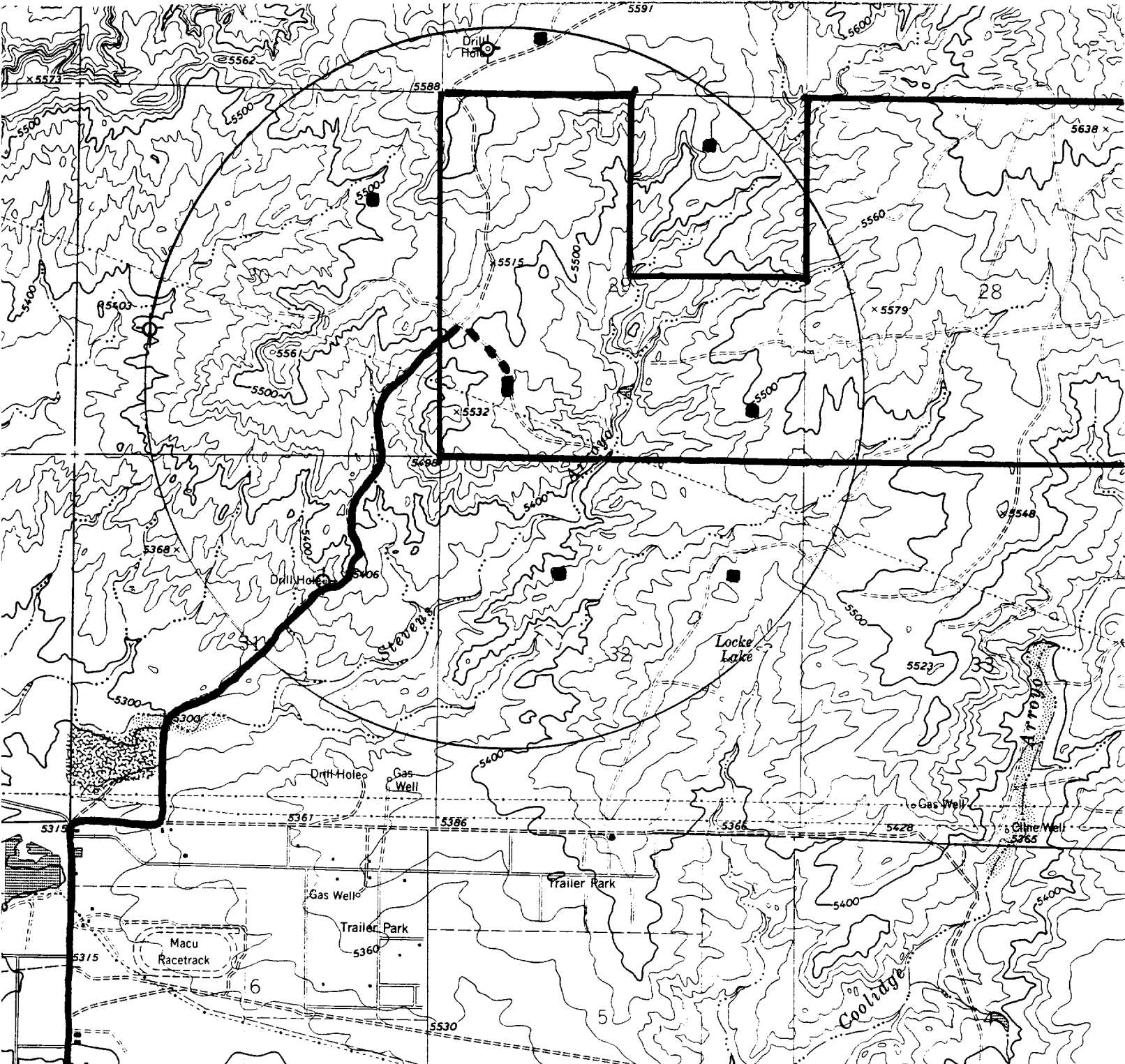
|                             |         |               |           |
|-----------------------------|---------|---------------|-----------|
| Dedication<br><i>30 w/4</i> | Joint ? | Consolidation | Order No. |
|-----------------------------|---------|---------------|-----------|

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



|   |                             |
|---|-----------------------------|
| <b>OPERATOR CERTIFICATION</b>   |                             |
| I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.   |                             |
| Signature   | <i>Brian Wood</i>           |
| Printed Name  | BRIAN WOOD                  |
| Title   | CONSULTANT                  |
| Date  | AUG. 22, 2000               |
| <b>SURVEYOR CERTIFICATION</b>   |                             |
| I hereby certify that the well location 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 belief. |                             |
| Date of Survey  | AUGUST 2000                 |
| Signature   | <i>Gerald S. Huddleston</i> |
| Professional Seal   |                             |

Richardson Operating Co.  
 WF Federal 29 #3  
 1010' FSL & 920' FWL  
 Sec. 29, T. 30 N., R. 14 W.  
 San Juan County, New Mexico



- PROPOSED WELL: ■
- EXISTING WELL: ●
- P&A WELL: ⊙
- ROAD UPGRADE: - - -
- EXISTING ROAD: ~
- LEASE: \_\_\_\_\_

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## Drilling Program

### 1. ESTIMATED FORMATION TOPS

| <u>Formation Name</u> | <u>GL Depth</u> | <u>KB Depth</u> | <u>Subsea Elevation</u> |
|-----------------------|-----------------|-----------------|-------------------------|
| Kirtland Sh           | 000'            | 5'              | +5,480'                 |
| Fruitland Fm          | 480'            | 485'            | +5,000'                 |
| Pictured Cliffs Ss    | 980'            | 985'            | +4,500'                 |
| Total Depth (TD)*     | 1,100'          | 1,105'          | +4,350'                 |

\* all elevations reflect the ungraded ground level of 5,480'

### 2. NOTABLE ZONES

| <u>Gas Zones</u>       | <u>Water Zones</u>  | <u>Coal Zones</u>   |
|------------------------|---------------------|---------------------|
| Fruitland Fm (485')    | Fruitland Fm (485') | Fruitland Fm (485') |
| Pictured Cliffs (980') |                     |                     |

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) Double ram or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at nipple up and after any use under pressure to 1000 psi.