

**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**

1b. TYPE OF WELL
OIL **WELL**
GAS **WELL**
OTHER
SINGLE **ZONE**
MULTIPLE **ZONE**

5. LEASE DESIGNATION AND SERIAL NO.
NM 206995

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
WF Federal 34 24406

2. NAME OF OPERATOR
Richardson Operating Company

9. WELL NO.
1

3. ADDRESS OF OPERATOR
c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892

10. FIELD AND POOL OR WILDCAT
HARPER HILL FRT SMD PCEXT

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At Surface **895' FSL and 1595' FEL**
 At proposed Prod. Zone

11. SEC., T., R., M., OR BLK AND SURVEY OR AREA
Sec. 34, T30N, R14W 30-045-29838

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2 miles NE of Farmington, NM

12. COUNTY OR PARISH
San Juan

13. STATE
NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
895'

16. NO. OF ACRES IN LEASE
1008.52

17. NO. OF ACRES ASSIGNED TO THIS WELL
172

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.
800'

19. PROPOSED DEPTH
1160'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5488' GR

22. APPROX. DATE WORK WILL START*
March 15, 1999

23. **PROPOSED CASING AND CEMENTING PROGRAM** **DRILLING OPERATIONS AUTHORIZED ARE**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7"	20#	120'	"GENERAL REQUIREMENTS" 155 cu.ft. w/ 2% metasilicate
6-1/4"	4.5"	10.5#	1160'	

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

89 cu.ft. Cl "B"

Richardson Operating Company proposes to drill a vertical well to develop the Pictured Cliffs formation at the above described location in accordance with the attached drilling and surface use plans.

This location has been archaeologically surveyed by Moore Anthropological Research. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road right-of-ways. This well will be accessed by a 1000' of new road which is 20' wide and crosses the S/2/SE of section 34, the SW/SW of section 35, T30N, R14W, W/2NW of section 2, T29N, R14W, where it joins the Twin Mounds bypass road.

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 Paul C. Thompson TITLE Paul C. Thompson, Ager DATE 2/16/99

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE **MAR 12 1999**

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 Chip Hamden TITLE Acting Team Lead DATE 3/12/99

*See Instructions On Reverse Side

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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994

District II
PO Drawer 00, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

AMENDED REPORT
90 FEB 19 11 8 23

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-29838		*Pool Code 86620		*Pool Name FRUITLAND SAND PICTURED CLIFF	
*Property Code 24406		*Property Name WF FEDERAL		*Well Number 34-1	
*OGRID No. 019219		*Operator Name RICHARDSON OPERATING COMPANY		*Elevation 5488'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	34	30N	14W		895	SOUTH	1595	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

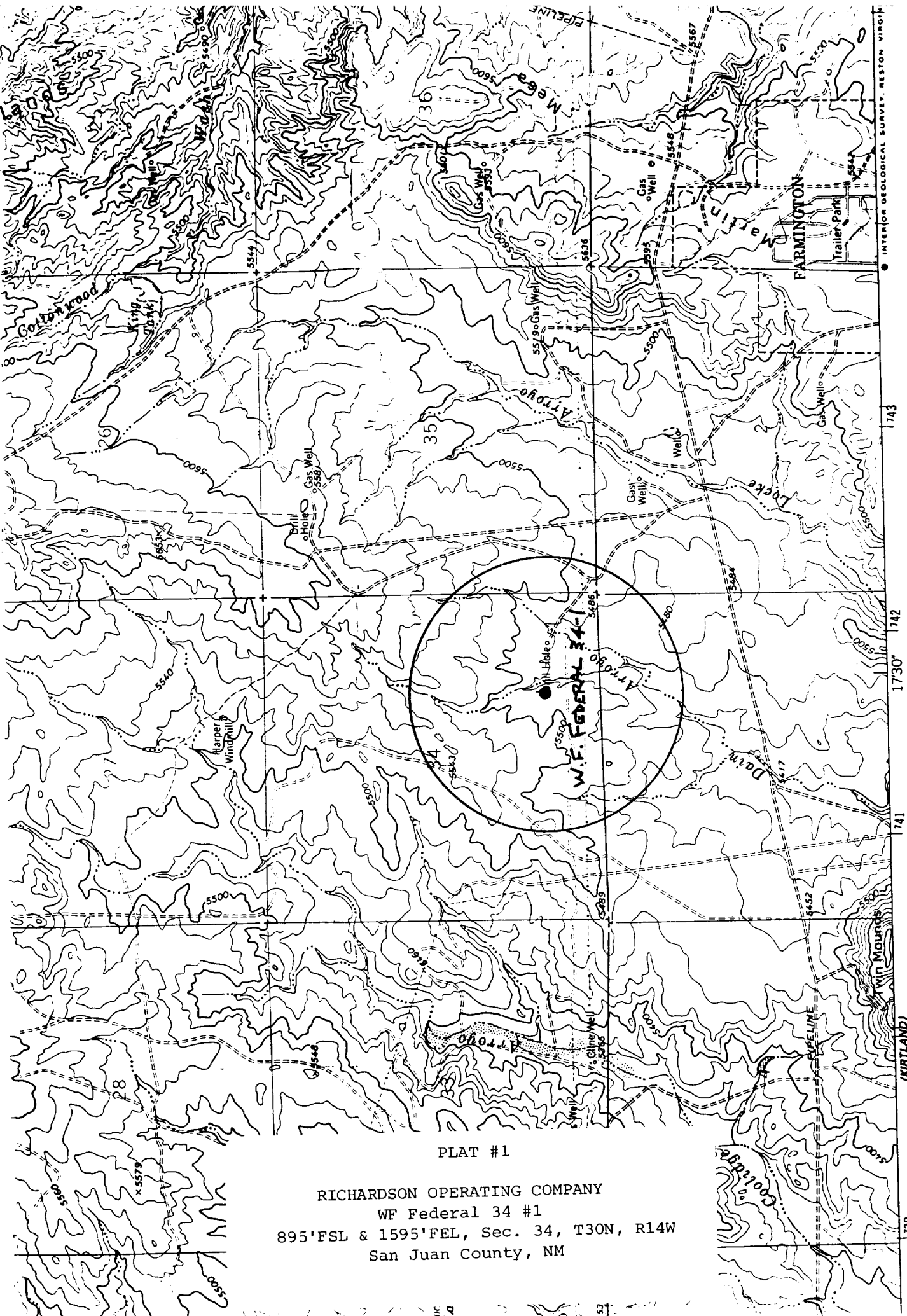
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 172	13 Joint or Infill N	14 Consolidation Code	15 Order No.
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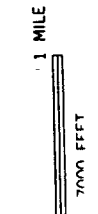
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>16</p>	<p>34</p>	<p>5280.00'</p>	<p>5460.84'</p>	<p>1595'</p>	<p>895'</p>	<p>LOT 4</p>	<p>LOT 3</p>	<p>LOT 2</p>	<p>LOT 1</p>	<p>5280.00'</p>
	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Paul C. Thompson</i> Signature</p> <p>Paul C. Thompson Printed Name</p> <p>Agent</p> <p>Title</p> <p>2/18/99 Date</p>									
	<p>18 SURVEYOR CERTIFICATION</p> <p>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 belief.</p> <p>FEBRUARY 12, 1999 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><i>Neale C. Edwards</i> Signature</p> <p>NEALE C. EDWARDS NEW MEXICO 6857 Professional Surveyor</p> <p>Certificate Number 6857</p>									

PLAT #1
RICHARDSON OPERATING COMPANY
WF Federal 34 #1
895'FSL & 1595'FEL, Sec. 34, T30N, R14W
San Juan County, NM



ROAD CLASSIFICATION
Medium duty ——— Light-duty - - - - -



SCALE 1:24 000

(KIRTLAND)
4357 III NE

INTERIOR GEOLOGICAL SURVEY, RESTON VIRGINIA