

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

1086' FNL &amp; 866' FEL

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

5 air miles NE of Kirtland, NM

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

1086'

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

3,753'

## 16. NO. OF ACRES IN LEASE

800

## 19. PROPOSED DEPTH

1,300'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160 &amp; 1/320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5,560' ungraded ground

## 22. APPROX. DATE WORK WILL START\*

Dec. 26, 1999

## 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#	1,300'	≈235 cu ft & to surface

This is for use in subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4.

This APD is also serving as a road right-of-way application. The APD will amend Richardson's existing road right-of-way grant NM-99904. Newly applied for portion is 25' wide and 1,800' long (=1.03 acres) in NWSE Sec. 20, T. 30 N., R. 14 W.

On site inspection conducted by Bill Liese in 1998.

Archaeology report (WAS 9820) filed by Western Archaeological Services.

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

TITLE

Consultant (505) 466-8120

DATE

11-28-99

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

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

/s/ Jim Lovato

JAN 12 2000

\*See Instructions On Reverse Side

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

NOV 30 PM 4:00

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-30062		2 Pool Code 71629 & 86620		3 Well Name FRUIT. COAL & TWIN MOUNDS PC EX		
4 Property Code 23606		5 Property Name WF Federal 20			6 Well Number 2	
7 Operator Code 019219		8 Operator Name RICHARDSON OPERATING Co.			9 Elevation 5560	

10 Surface Location

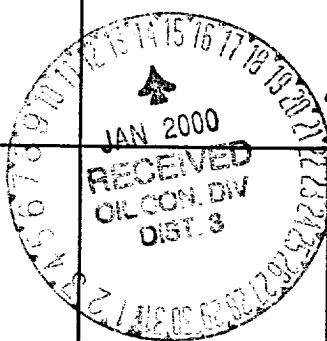
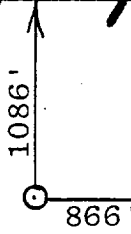
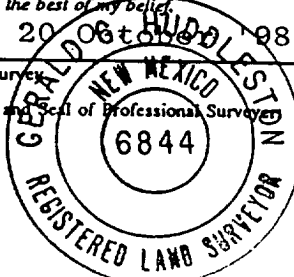
UL or lot no. A	Section 20	Township 30 N.	Range 14 W.	Lot Idn	Feet from the 1086	North/South line North	Feet from the 866	East/West line East	County San Juan
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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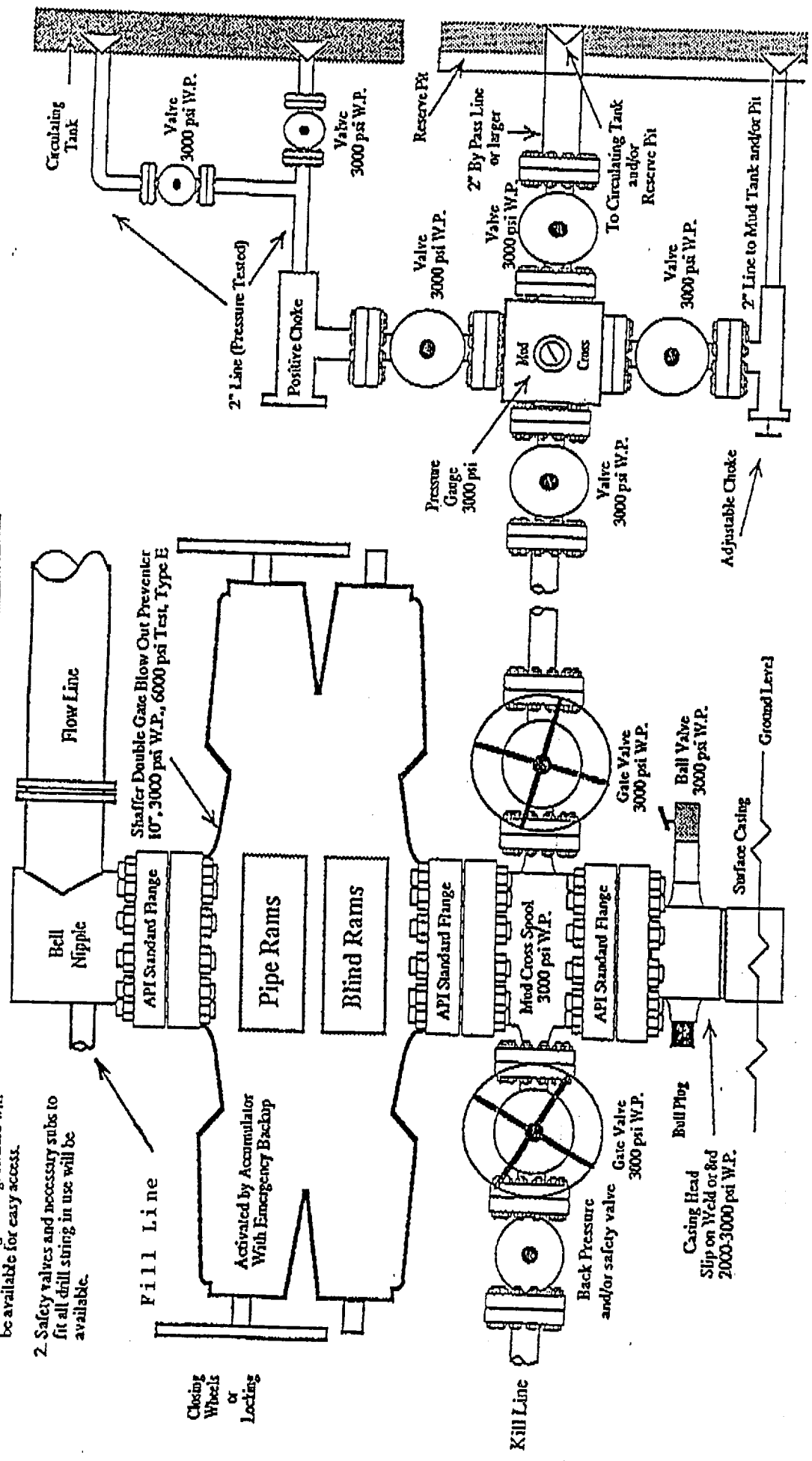
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature <u>Brian Wood</u> Printed Name <u>BRIAN WOOD</u> Title <u>CONSULTANT</u> Date <u>NOV. 28, 1999</u>	
		18 SURVEYOR CERTIFICATION 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  Date of Survey <u>20 October 1998</u> Signature and Seal of Professional Surveyor  Certificate Number <u>6844</u>	

# Pressure Control Equipment

- Note: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.
2. Safety valves and necessary subs to fit all drill string in use will be available.

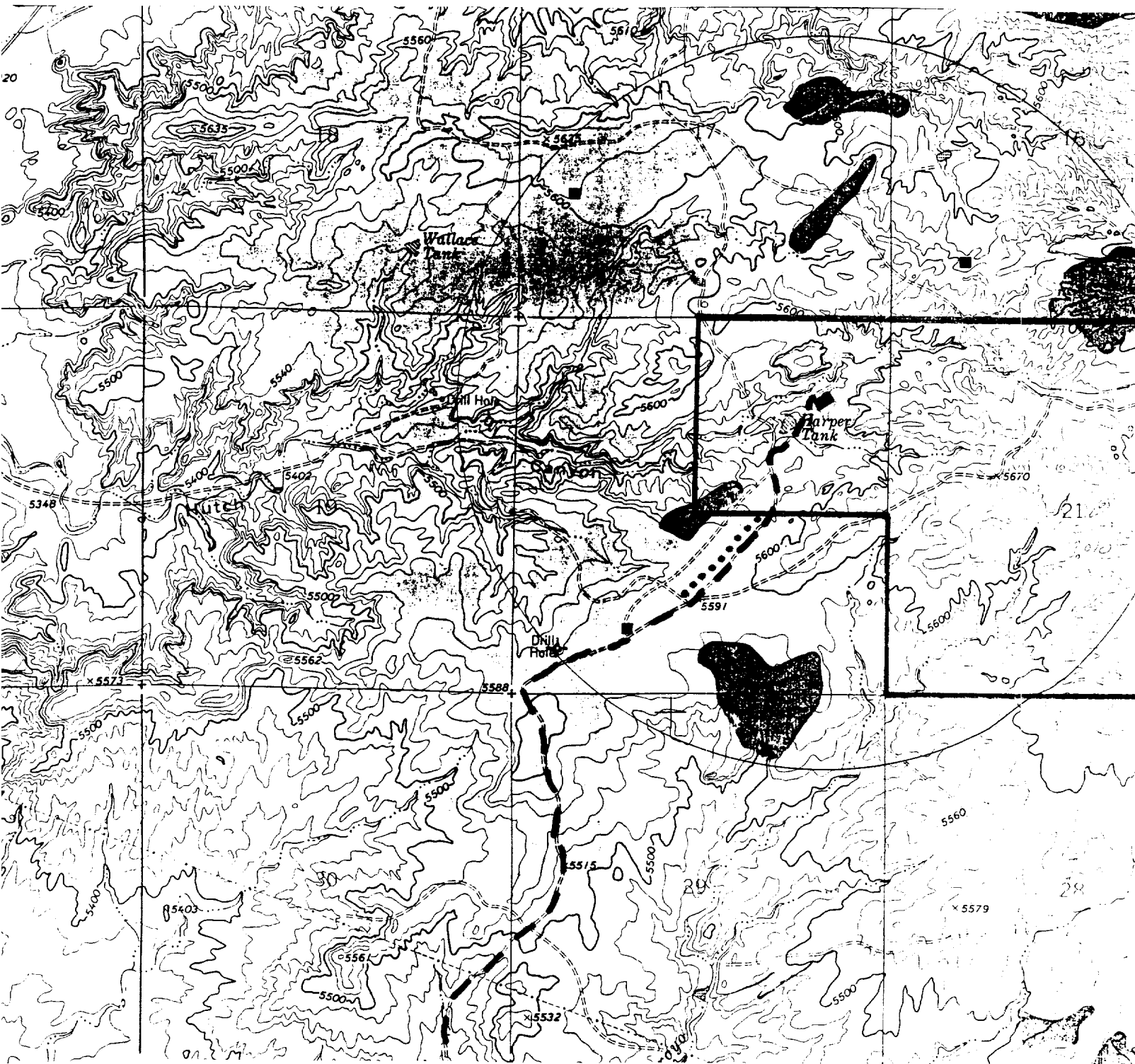


Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

Minimum 2" Choke Line  
Minimum 2" Kill Line  
At Least One 2" Minimum Kill Line Valve

Richardson Operating Co.  
WF Federal 20 #2  
1086' FNL & 866' FEL  
Sec. 20, T. 29 N., R. 14 W.  
San Juan County, New Mexico

PAGE 11



PROPOSED WELL: ■ EXISTING WELL: □ LEASE: —  
EXISTING ROAD: - - - BLM ROAD R/W APPLICATION: ...

**PERMITS WEST**  
PROVIDING PERMITS TO LAND USERS