

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐		7. UNIT AGREEMENT NAME N/A	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐		8. FARM OR LEASE NAME, WELL NO. WF Fed. 21 #2	
2. NAME OF OPERATOR Richardson Operating Co. (303) 830-8000		9. API WELL NO. 30-04.5-30156	
3. ADDRESS AND TELEPHONE NO. 1700 Lincoln, Suite 1700, Denver, Co. 80203		10. FIELD AND POOL, OR WILDCAT Twin Mounds PC Harper Hill ext F	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1915' FNL & 1425' FWL At proposed prod. zone Same		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 21-30n-14w NMMPM	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5 air miles NE of Kirtland, NM		12. COUNTY OR PARISH San Juan	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1589'		13. STATE NM	
16. NO. OF ACRES IN LEASE 800		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. 2,531'		19. PROPOSED DEPTH 1,500'	
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* Mar. 15, 2000	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,646' ungraded ground		22. APPROX. DATE WORK WILL START* Mar. 15, 2000	

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#	1,500'	≈270 cu ft & to surface

On sited with Danny Randall.

Archaeology report: LAC 9976d

This APD is also a BLM road right-of-way application to amend NM-99904.
The amendment is 20' wide by 2,747.81' long (=1.26 acres) and crosses
N2SE4 20-30n-14w. All of right-of-way is an existing road.

This proposal is for a well to be
drilled on the above described land
and is subject to the approval of the BLM
and is subject to the approval of the BLM.

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

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.

cc: BLM (& OCD), Colby

SIGNED Brian [Signature] TITLE Consultant (505) 466-8120 DATE 2-20-00

(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:

WAYNE TOWNSEND

APPROVED BY Wayne [Signature] TITLE Per [Signature] DATE 4/19/00

*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
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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-30156		Pool Code 78160 86620	Pool Name Harper Hill Fruitland Sand/PC EXT. TWIN MOUNDS FC EXT.
Property Code 23338	Property Name WF Federal		Well Number 21-2
OCRID No. 019219	Operator Name RICHARDSON OPERATING COMPANY		Elevation 5646'

¹⁰ Surface Location

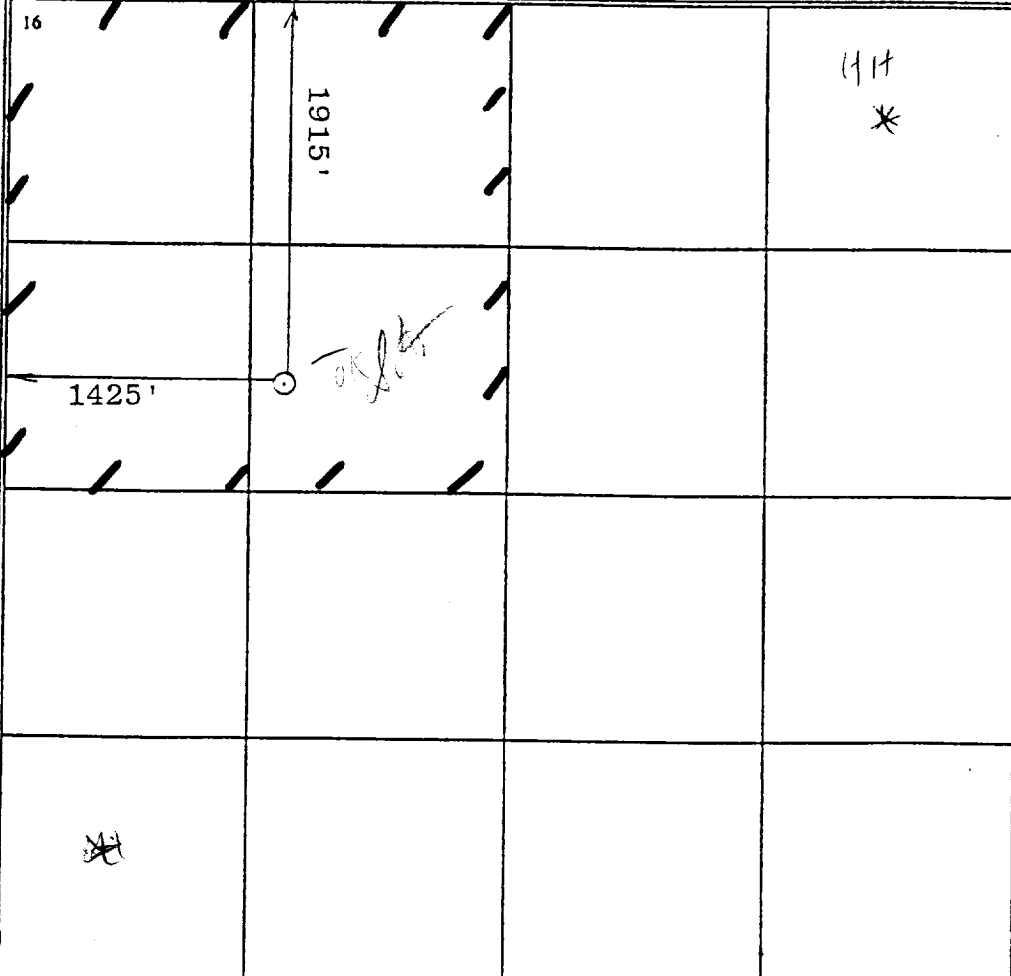
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F.	21.	30 N	14 W		1915	North	1425	West	San Juan

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

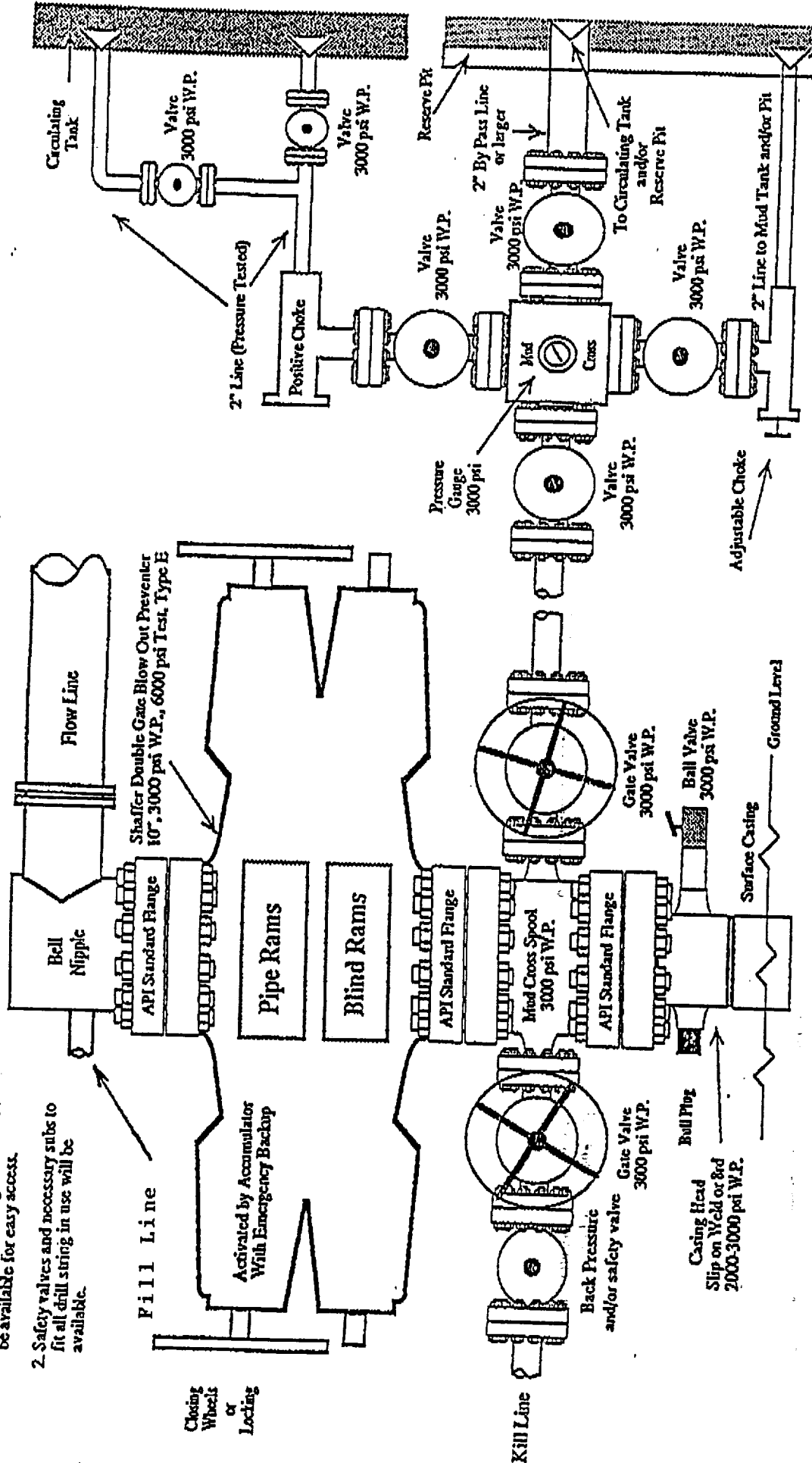
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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>FEB. 20, 2000</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 knowledge and belief Date of Survey <u>Feb 20, 2000</u> Signature <u>[Signature]</u> Seal of Professional Surveyor 6844 REGISTERED LAND SURVEYOR
	Certificate Number

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

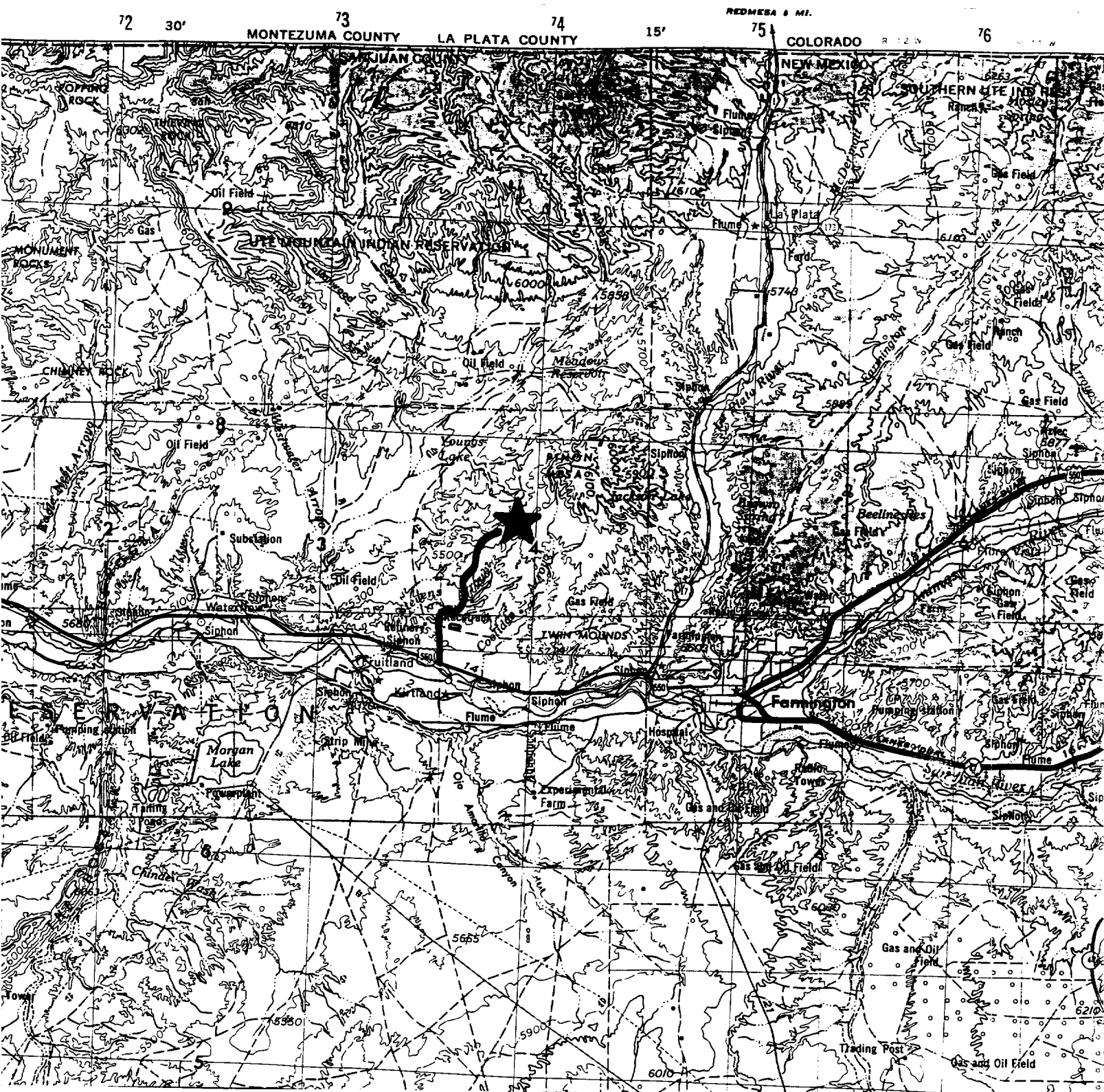
Pressure Control Equipment



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.

Richardson Operating Co.
 WF Federal 21 #2
 1915' FNL & 1425' FWL
 Sec. 21, T. 29 N., R. 14 W.
 San Juan County, New Mexico

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PROPOSED WELL:



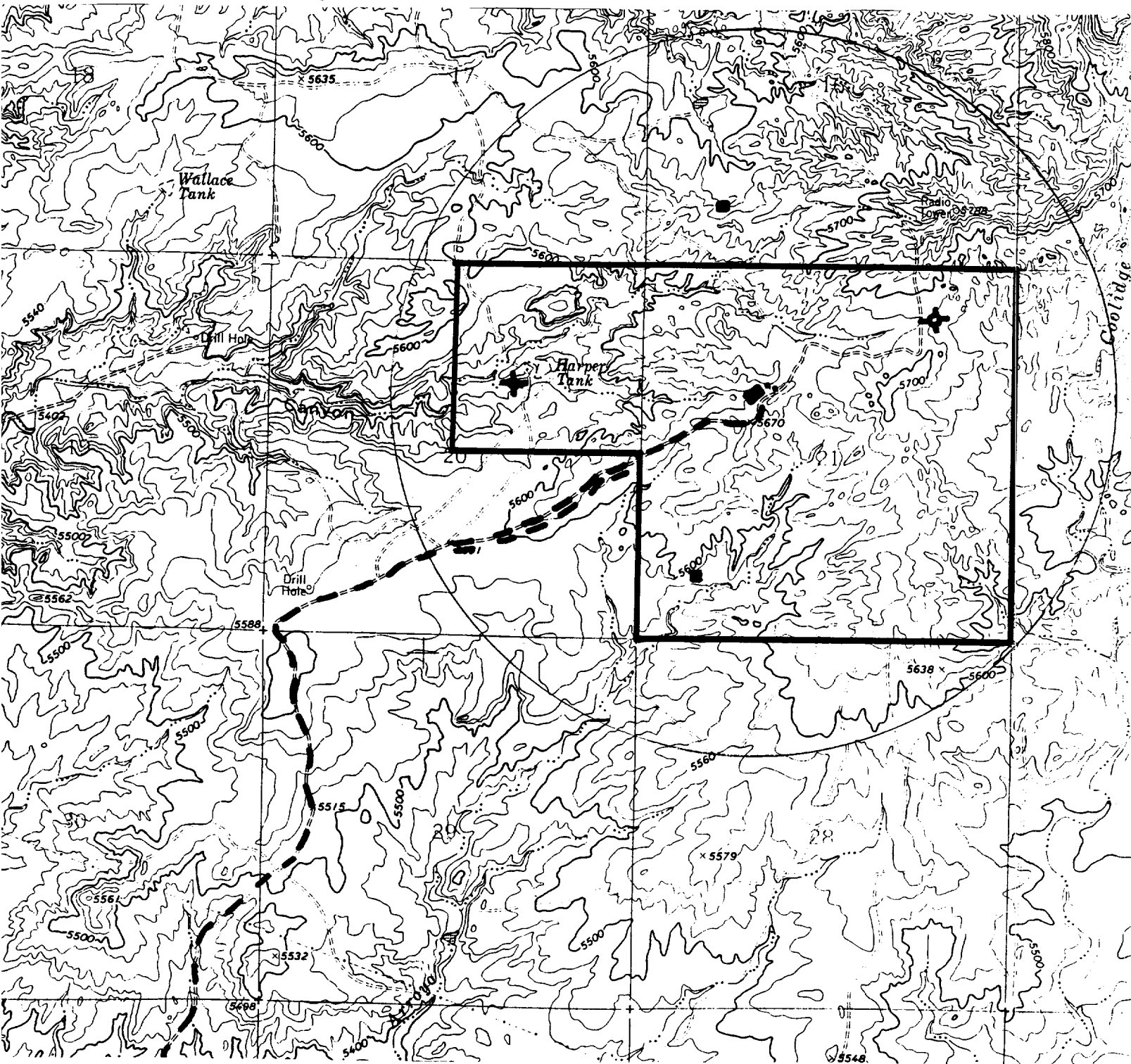
ACCESS:



PERMITS WEST INC.
 PROVIDING PERMITS for LAND USERS

Richardson Operating Co.
WF Federal 21 #2
1915' FNL & 1425' FWL
Sec. 21, T. 29 N., R. 14 W.
San Juan County, New Mexico

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PROPOSED WELL:  EXISTING WELL: 
NEW ROAD:  EXISTING ROAD: 
LEASE:  ROAD R/W: 