SUBMIT IN TRIPLICATE.

FORM APPROVED

July 1992)	UNI"	TED STATES T OF THE INTE	(Other instruction of the contract of the cont	tions on de)	OMB NO. 1004-0136 Expires: February 28, 1995
		LAND MANAGEMI		1	NMNM-0207001
APPL	ICATION FOR P	ERMIT TO DRI	I OR DEEPEN	6.	IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK	ILL D	DEEPEN [709F FE.Y	1 1	INIT ACREMENT NAME
b. TYPE OF WELL	AS ET	DEEPEN _			2875X N/A
2. NAME OF OPERATOR	VELL OTHER	10:210	SINGLE MULTIPI ZONE ZONE	8.	WF Federal 25 #1
Richardson O	perating Co.	19219	(303) 830-800		API WELL, NO.
1700 Lincoln	St., Suite 17	700, Denver,	Co. 802037	10.	30-045-3068/ FILLD AND POOL OF WILDCT EX
At surface	seport location clearly and 2130' FNL	& 575' FEL	Start requirements. •)	23 L	SEC., T., R., M., OR BLK.
At proposed prod. zor	^{1e} Same		1000	B) H	AND SURVEY OR AREA
	AND DIRECTION FROM NEAR		C		5-30n-14w NMPM
4 air miles N	W of Farming		12 Carpen		an Juan NM
LOCATION TO NEAREST PROPERTY OR LEASE 1	T LINE, FT		NO OF ACRES IN LEASE	TO THIS Y	
(Also to nearest dright 18. DISTANCE FROM PROT	OSED LOCATION*	575'	585.69 PROPOSED DETEN	20. ROTARY OF	90.38 & 144.12
TO NEAREST WELL, DOR APPLIED FOR, ON TH	IS LEASE, FT.	101'	1,320'		Rotary
	S	,450'—ungrad	ded	2	2. APPROX. DATE WORK WILL START. July 1, 2001
23.		PROPOSED CASING A	ND CEMENTING PROGRAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	·	QUANTITY OF CEMENT
8-3/4" 6-1/4"	K-55 7" K-55 4-1/2"	20 10.5	120'		≈36 cu. ft. & to surface
0 174	R-33 4-172	10.5	1,320'	:	≈190 cu. ft. & to surface
Authorization for Right-of-way appli Section 30 and NE	ication covers 30'	being sought by x 6,800' (=4.6 NENW, & Lot 1 Se	this APD doubling	road in S , R. 13 W. OBLERGE SUBJECT TO	right-of-way application. WSW & Lots 14 & 15, PERAL CURY ADTHURIZED ARE COMPLIANCE WITH ATTACHED REQUIREMENTS 3
SIGNED SIGNED	E PROPOSED PROGRAM: If nent data on subsurface location	and the asset of and true verif	ta on present productive zone ar ical depths Give blowout prevent Consultant (505) 4	nd proposed new per program, if any	5-20-01
PERMIT NO.				······································	10/01
Application approval does n		licant holds legal or equitable	title to those rights in the subject le	nse which would er	utitle the applicant to conduct operations thereo
					AUG 10
APPROVED BY	/s/ Joel Farrell				

*See Instructions On Reverse Side

State of New Mexico Energy. Minerals & Mining Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe. NM 87505266 NY 95 71 1:45

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-30681		Pool Code	Pool Name A		
		71629 & 78160	FRUIT. COAL & HARP. HILL	ÎPC EXT	
Property Code		Propert	Well Number		
28758		. WE FED	25 - 1		
OGRID No.		Operato	Elevation		
019219		.RICHARDSON OPER	5450°		

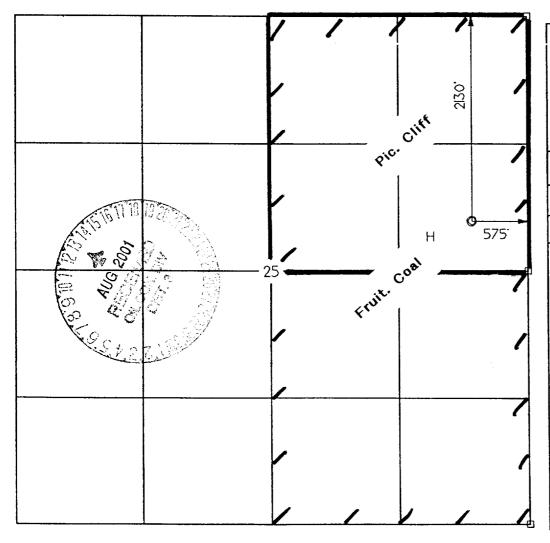
Surface Location

UL or Lot	Sec.	Twp.	Rge.	Lot ldn.	Feet from>	North/South	Feet from>	East/West	County
Н	25	30 N.	14 W.		2130	NORTH	575	EAST	SAN JUAN

Bottom Hole Location If Different From Surface

UL or Lot	\$ec.	Tup.	Rge.	Lot kin.	Feet from>	North/South	Feet from>	East/West	County
Dedication	Je	oint?	Cansolida	ion	1	<u> </u>	Orde	sr Na.	

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Printed Nam BRIAN WOOD

Title CONSULTANT

Date MAY 20, 2001

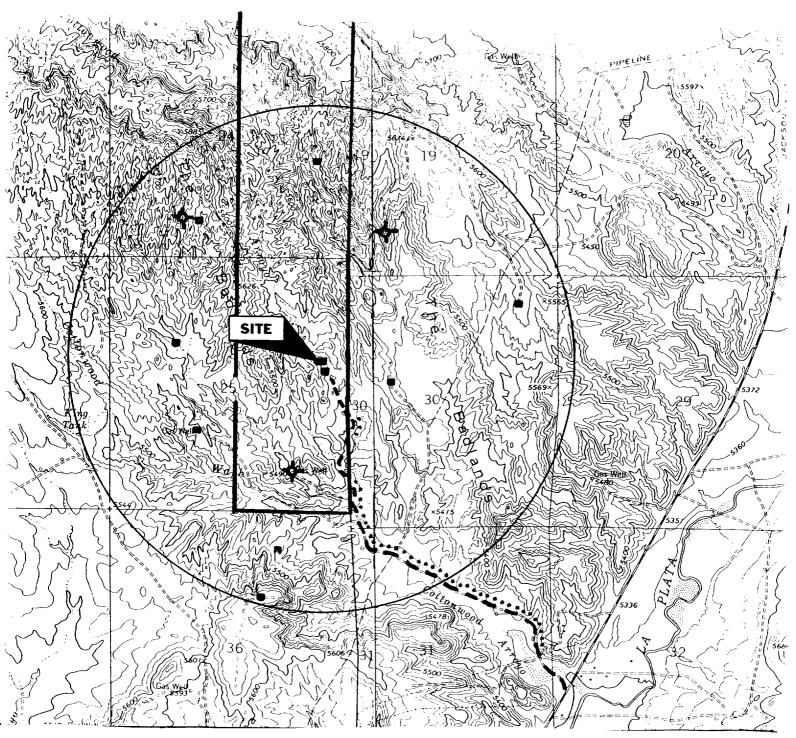
SURVEYOR CERTIFICATION

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

2000

PED LAND

Richardson Operating Co. WF Federal 25 #1 2130' FNL & 575' FEL Sec. 25, T. 30 N., R. 14 W. San Juan County, New Mexico



PROPOSED WELL:

EXISTING WELL: •

P&A WELL: 💠

LEASE:

EXISTING ROAD: - -

RIGHT-OF-WAY APPLN.: ...



PAGE 1

WF Federal 25 #1 2130' FNL & 575' FEL

Sec. 25, T. 30 N., R. 14 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Subsea Elevation
Kirtland Sh	000'	5'	+5,450'
Basal Fruitland Coal	1170'	1605'	+4,280'
Pictured Cliffs Ss	1190'	1630'	+4,260'
Total Depth (TD)*	1320'	1755'	+4,130'

^{*} all elevations reflect the ungraded ground level of 5,450'

2. NOTABLE ZONES

<u>Gas Zones</u>	Water Zones	Coal Zones
Fruitland Coal (1170')	Fruitland Coal (1170')	Fruitland Coal (1170')

Pictured Cliffs (1190')

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.



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Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi. Maximum expected pressure is ≈ 700 psi.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O.D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	GL Setting Depth
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1.320'

Surface casing will be cemented to surface with ≈ 36 cu. ft. (≈ 30 sx) Class B + 2% CaCl₂. Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with mud to the surface. Thirty barrels of fresh water will next be circulated. Lead with ≈ 110 cu. ft. (≈ 54 sx) of Class B with 2% metasilicate (yield = 2.06 cu. ft./sk, slurry weight = 12.5 PPG). Tail with ≈ 80 cu. ft. (≈ 68 sx) of Class B with 2% CaCl₂ (yield = 1.18 cu. ft./sk, slurry weight = 15.6 PPG). Total cement volume is ≈ 190 cu. ft. based on 75% excess and circulating to surface.

Production casing will have 4-1/2" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Four centralizers will be spaced on every other joint starting above the shoe. Four turbolizers will be placed on every other joint starting from the top of the well.

