# SUBMIT IN TRIPLICATE\*

FORM APPROVED
OMB NO. .1004-0136
Expires: February 28, 1995 (Otner instructions on reverse side) **UNITED STATES** 

		F LAND MANAGE	· · · · · ·		5. LEASE DESIGNATION AND SERIAL NO.
	NMSF-079968				
APPL	6. IF INDIAN, ALLOTTEE OR TEIBE NAME				
1a. TYPE OF WORK	RILL U	DEEPEN [	y - 222 m	··· · · · · · · · · · · · · · · · · ·	7. UNIT AGREEMENT NAME
b. TYPE OF WELL		DELFEIN [			N/A
WELL	WELL OTHER		SINGLE ZONE ZONE	PLE	8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR Richardson O	perating Co.	(303) 630 6000		_	WF Fed. 3 #2
3. ADDRESS AND TELEPHONE NO	).	<del></del>			30-045-30/68
1700 Lincoln,	-	10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL (	Report location clearly an			_	Basin Fruit. Coal
		& 1290' FW	VL.	,	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. 20	Same				3-29 <b>n-14w</b> NMPM
	AND DIRECTION FROM NE.		FFICE*	1	12. COUNTY OR PARISH   13. STATE
	of Kirtland,				San Juan / NM
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE	BT	1,175'	6. NO. OF ACRES IN LEASE 2,523.72	17. NO. OF	ACRES ASSIGNED 318.42
	lg. unit line, if any)		9. PROPOSED DEPTH	20. ROTARY	OR CABLE TOOLS
	DRILLING, COMPLETED,	>1 mi.	1,200%		Rotary
21. ELEVATIONS (Show wi		.35'√ungrade	d ground		22. APPROX. DATE WORK WILL START* Mar. 20, 2000
23.	· · · · · · · · · · · · · · · · · · ·	PROPOSED CASING	AND CEMENTING PROGRA	.м	-
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
0.2/47	7" (V 55)	20#	120'-	-	≈36 cu ft & to surface
8-3/4" 6-1/4"	7" (K-55) 4-1/2" (K-55)	10.5#	1,200%	-	≈220 cu ft & to surface
100 (100 (100 (100 (100 (100 (100 (100	and on the second secon	100 00 5 10 00 00 8000 8 (0 2) 5003,4	MAY 2000 POLGON DIV DIST 3		「「「「「」」(「」)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)(A)
(This space for Fede	ral or State office use)	ns and measured and true vo	Onsultant (505)	nter program, if a	3-5-00
Application approval does r CONDITIONS OF APPROVAL				ease which would	entitle the applicant to conduct operations thereon
	/s/ Jim Lovato	and the state of t			MAY 2 4 2000
APPROVED BY	19/ Jilli LUVALU	ппе		r	DATE
1 1	v 11 11 /				

PO Boy 1980, Hobbs, NM 88241-1980 DIMORTI PO Drawer DD, Artesia, NM 88211-0719

1000 Rio Bruzos Rd., Aztec, NM 87410

PO Box 2088, Santa Fc, NM 87504-2088

District III

District (V

Energy, Minerals & Natural Resources Department

Paulant Enhancer 21, 1001

Instructions on back Submit to Appropriate District Office

Fee Lease - 3 Copies

## State Lease - 4 Copies

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

\_AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> Pool Code	Pool Code Pool Name		
68 71629	BASIN FRUITLAND COAL -		
	* Property Nume	* Well Number	
· W	VF Federal	3-2	
	Operator Name	* Elevation	
RICHARDSON	RICHARDSON OPERATING COMPANY		
•	168 71629 - v	BASIN FRUITLAND COAL-  'Property Name  WF Federal  'Operator Name	

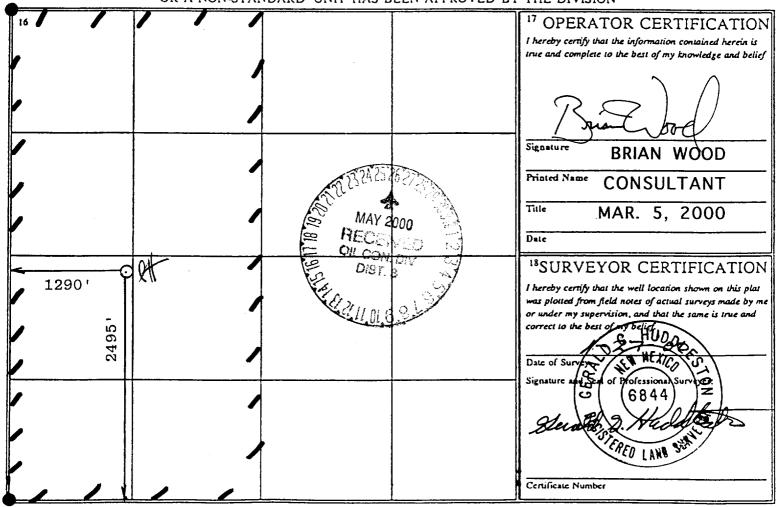
#### Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
L.	3.	29 N	14' W		<b>2</b> 495	South	1290	West	San Juan
			11 70	77 1		C D : CC	~ ^		<del></del>

#### Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acr		or lafill 14 (	Consolidatio	n Code 15 C	order No.		1	I	. ]

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



Richardson Operating Co. WF Federal 3 #2 2495' FSL & 1290' FWL Sec. 3, T. 29 N., R. 14 W. San Juan County, New Mexico

### Drilling Program

#### 1. ESTIMATED FORMATION TOPS

GL Depth	KB Depth	Subsea Elevation
000'	5'	+5,435'
930'	935'	+4,505'
1,070'	1,075'	+4,365'
1,200'	1,205'	+4,235'
	000' 930' 1,070'	000' 5' 930' 935' 1,070' 1,075'

<sup>\*</sup> all elevations reflect the ungraded ground level of 5,435'

#### 2. NOTABLE ZONES

Gas Zones	Water Zones	<u>Coal Zones</u>
Fruitland Coal (930')	Fruitland Coal (930')	Fruitland Coal (930')
Pictured Cliffs (1,070')		

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  $\approx$ 480 psi.

#### 4. CASING & CEMENT

Hole Size	<u>O.D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
8-3/4"	7"	20	K-55	New	120'
6-1/4"	4-1/2"	10.5	K-55	New	1,200'

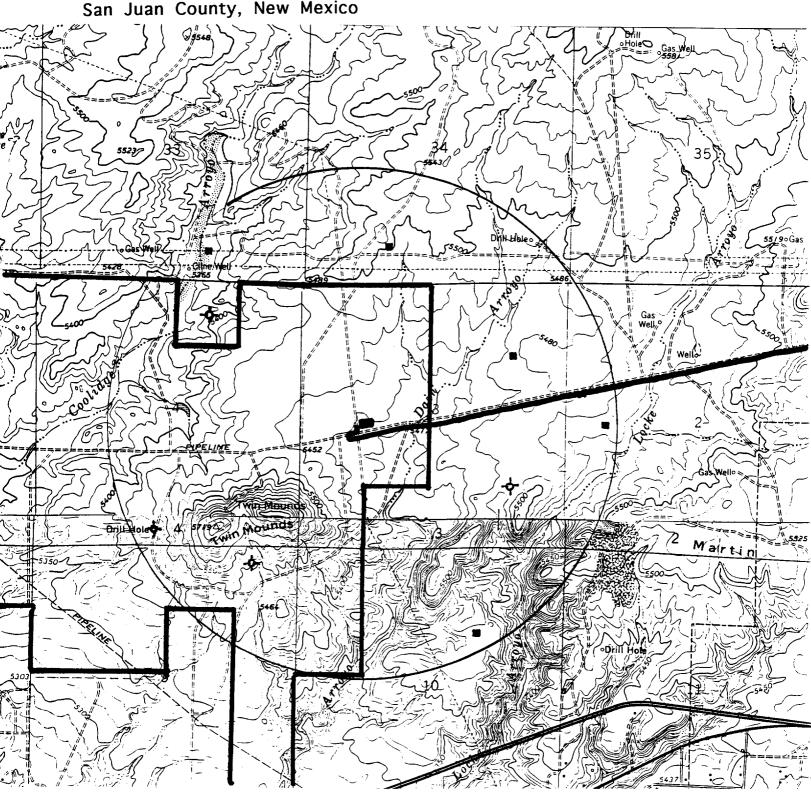
Surface casing will be cemented to surface with  $\approx 36$  cu. ft. ( $\approx 30$  sx) Class B + 2% CaCl<sub>2</sub>. Volume is based on 100% excess, yield of 1.18 cu. ft./sk, and slurry weight of 15.6 PPG. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

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  $\approx 125$  cu. ft. ( $\approx 60$  sx) of Class B with 2% metasilicate (yield = 2.06 cu. ft./sk, slurry weight = 12.5 PPG). Tail with  $\approx 95$  cu. ft. ( $\approx 80$  sx) of Class B with 2% CaCl<sub>2</sub> (yield = 1.18 cu. ft./sk, slurry weight = 15.6 PPG). Total cement volume is  $\approx 220$  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. Five centralizers will be spaced on every other joint starting above the shoe. Five turbolizers will be placed on every other joint starting from the top of the well.



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PROPOSED WELL:

EXISTING WELL: 
EXISTING ROAD:

