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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2430

## **ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Applica	tion Acro	0-2HQ)	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication]  Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  C-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE	OF AP [A]	PLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL QNSP QDD QSD AUG - 2 1999
		Check [B]	One Only for [B] or [C]  Commingling - Storage - Measurement  WDHC CTB PLC PC COLS COLS
		(C)	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI EOR PPR
[2]	NOTIE	FICAT	ION REQUIRED TO: - Check Those Which Apply, or $\square$ Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
		[B]	☑ Offset Operators, Leaseholders or Surface Owner
		[C]	☐ Application is One Which Requires Published Legal Notice
		[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
		(E)	Tor all of the above, Proof of Notification or Publication is Attached, and/or,
		[F]	☐ Waivers are Attached
[3]	INFOR	RMATI	ION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
hereb	y certify	that I,	or personnel under my supervision, have read and complied with all applicable Ru

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory canacity

John C. Thompson

Print or Type Name

Signature

Agent/Engineer

7/29/99

Title



## WALSHI

### ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892 • Fax: (505) 327-9834

Ms. Lori Wrotenberry New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, New Mexico 87504 July 29, 1999

Re: Downhole Commingle Application
Richardson Operating Company
WF Federal 29 #1
790' FNL & 1410' FEL, Section 29, T30N, R14W
San Juan County, New Mexico
Basin Fruitland Coal and Twin Mounds Frt. Sand/ Pictured Cliffs Ext.

Dear Ms. Wrotenberry,

This is a request for administrative approval for downhole commingling of the production from the Basin Fruitland Coal and the Twin Mounds Fruitland Sand / Pictured Cliffs Ext.

I have attached for your review, an acreage plat outlining the dedicated acreage and offset operators. I have also included a proposed allocation formula with a short discussion of the history of the well.

The offset operators are being notified of this application by certified return receipt mail. Copies of these letters are enclosed.

Thank you for your consederation and approval of this application. If you have any questions or concerns please do not hesitate me anytime at (505) 327-4892.

Sincerely

John C. Thompson

Engineer

тr

### DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

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Form C-107-A New 3-12-96

DISTRICT II 811 South First St., Artesia, NM 88210-2835

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

APPROVAL PROCESS:

4.4

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

\_\_\_ Administrative \_\_\_Hearing EXISTING WELLBORE

RICHARDSON OPERATING CO	MPANY 1700 Lincoln,	Suite 1700 Denver	YESN
WF Federal 29	Addres	29-30N-14W	San Juan Count
GRID NO. 019219 Property Code		. · Sec · Twp · Rge :0-045-29737 Specing L Federal	County Unit Lease Types: (check 1 or more)  X State, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	71639 Basin Fruitland Coal		Twin Mounds FR Sand/PC
2. Top and Bottom of Pay Section (Perforations)	1053-1066'		1076'-1094'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Pumping		Pumping
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current)	0.	<b>a</b> .
Gas & Oil - Flowing:  Measured Current  All Gas Zones:  Estimated Or Measured Original	b. (Original) 200	b.	<b>b.</b> 200
6. Oil Gravity (*API) or Gas BTU Content	1000		1000
7. Producing or Shut-In?			
Production Marginal? (yes or no)	Yes		Yes ·
<ul> <li>If Shut-in, give date and oil/gas/ water rates of last production</li> </ul>	Oate: Rates:	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
<ul> <li>If Producing, give date andoit/gas/ water rates of recent test (within 60 days)</li> </ul>	Date: Nates:	Dote: Rates:	Ratee:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Ges: %	Oil: Gas: %	Oli: % Gas: %
O. Are all working, overriding, and if not, have all working, over Have all offset operators been	porting data and/or explaining nd royalty interests identical in riding, and royalty interests be given written notice of the pro	method and providing rate proj all commingled zones? en notified by certified mail? posed downhole commingling?	ections or other required dat  X Yes - No X Yes - No X Yes - No
Will cross-flow occur?     flowed production be recovered.	res $ imes$ No . It yes, are fluids ad, and will the allocation form	compatible, will the formations in the reliable. Yes	No (If No, attach explanation
<ol><li>Are all produced fluids from a</li><li>Will the value of production b</li></ol>	•		<del></del>
4. If this well is on, or communi	tized with, state or federal land		Public Lands or the
5. NMOCD Reference Cases for	-		
* Production curve for For zones with no Data to support all * Notification list of the Production of	or each zone for at least one y production history, estimated po- ocation method or formula.	its spacing unit and acreage de ear. (If not available, attach ex production rates and supporting y interests for uncommon inter equired to support commingling	kplanation.) g data.
hereby certify that the information	on above is true and complete	to the best of my knowledge a	and belief.
SIGNATURE	Collection	TITLE Agent/Engineer	DATE7/30/99
TYPE OR PRINT NAMEJ			_

R14W

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2 禁 Kdø D.A.'58 6 - Kpcø D.A.'54	Richardson : Amoco 1-20		1 荣 Kf Kpc KdøD.A.85
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### Richardson Operating Company WF Federal 29 #1 Commingling Application

The WF Federal 29-1 is a newly drilled Basin Fruitland Coal / Twin Mounds Frt. Sand Pictured Cliffs Ext. well. This is part of Richardson's development program in their WF (West Farmington) field. This is the only Pictured Cliffs well in this section. There are also no other Fruitland Coal wells in this section. The closest Fruitland Coal off set is Richardson's WF Federal 20 #1 (located in section 20, 30N, R14W) which has already been approved for down hole commingling.

Based on recent Richardson Operating wells in this township and the Ms. Nona #2 (which is located in section 15, 30N R14W), it is anticipated that both zones will have similar bottom hole pressures of approximately 200 psi. Both zones produce some water and no liquid hydrocarbons. Neither zone is fluid sensitive and fluids from the two zones are compatible.

Since neither zone has enough data to prepare a reliable production forecast, or predict the ultimate reserves, Richardson Operating proposes to allocate the production based on the initial production rates from the Pictured Cliffs. The well was perforated and stimulated in the Pictured Cliffs formation. The stimulation was then cleaned up and the well was then flow tested. The production based on the flow test will establish the baseline for the Pictured Cliffs production. The Fruitland Coal formation will be completed separately but it will have to be produced with the Pictured Cliffs. The Fruitland Coal production will be the total measured production minus the Pictured Cliffs baseline rate.

Assuming a 7% decline rate from the Pictured Cliffs the allocation formula is as follows:

**Pictured Cliffs Production** = Pictured Cliffs base rate  $x e^{-DT}$ , where D = 7%/yr and t = time in years since first production.

Fruitland Coal Production = Total Production - Pictured Cliffs production.

WF Federal 29-1 Gas Production

The well was perforated and stimulated in the Pictured Cliffs. The well was allowed to flow back immediately after the stimulation. The well was then cleaned up and allowed to flow for 72 hrs. The well produced 45 MCF in the 72 hour test period. The calculated 24 hour flow rate was determined to 15 mcfd. Richardson Operating proposes to use 15 mcfd for the initial production from the Pictured Cliffs.

### **Richardson Operating Company**

### WF Federal 29 #1 790' FNL & 1410' FEL, Section 29, T30N, R14W San Juan County, New Mexico Twin Frt. Sand/ Pictured Cliffs Ext. Mounds **Basin Fruitland Coal and**

The following offset Operators have received written notice of the proposed downhole commingling application:

Dugan Production Company Yates Petroleum Corporation

The following royalty and overriding royalty interest owners have received written notice of the proposed downhole commingling application:

**Bureau of Land Management** Amoco Production Company Dugan Production Company

Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc.

I certify that copies of the Application for Downhole Commingling has been mailed to the above operators and interest owners.

SAN JUAN COUNTY ) ss STATE OF NEW MEXICO )

The following instrument was acknowledged before me this day of July 1999 by John C. Thompson

Notary Public

My Commission Expires:

OF NEW July 31, 2001

## Richardson Operating Company WF Federal #29-1

#### NOTIFICATION LIST

Bureau of Land Management Farmington District Office 1235 La Plata Highway Farmington, NM 87401

Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc. 105 South Fourth Street Artesia, New Mexico 88210

Amoco Production Company P.O. Box 3092 Houston, TX 77253-3092

Dugan Production Corp. P.O. Box 420 Farmington, NM 87401

## Richardson Operating Company WF Federal #29-1

Pictured Cliffs formation:

Township 30 North, Range 14 West, NMPM Section 29: NE/4 Containing 160.00 acres, more or less San Juan County, NM

Fruitland Coal formation:

Township 30 North, Range 14 West, NMPM Section 29: E/2 Containing 320.00 acres, more or less San Juan County, NM

Ownership in the  $\rm E/2$  of Section 29-T30N-R14W is uniform.

Working Interest:
Richardson Production Company

Royalty Interest: USA NMNM-97843 USA NMNM-97844

Overriding Royalty Interest: Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc. District 8
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesis, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

API Number

## State of New Mexico Legarization & 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

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> Pool Code

30-045		1 30	6620	) ]	Twin Mounds FR Sand PC						
* Property	Code	<sup>5</sup> Property Name							' Well Number		
			WF Federal							29-1	
'OCRID : 019219		'Operator Name RICHARDSON OPERATING CO.								'Elevation 5554 '	
					10 Surfac	e Location				·	
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11 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/Wes	t line	County	
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Certificate Number

District I PO Box 1980, Hobbs, NM \$8241-1980 District II PO Drawer DD, Artesla, NM \$8211-0719 District III 1000 Rio Brazzo Rd., Aziec, NM 87410

PO Box 2088, Santa Fe, NM 27504-2082

District IV

## State of New Mexico aerry, 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

AMENDED REPORT

** OGRID No. 019219 RICHARDSON OPERATING CO. 55  **OPERATING CO. 55  **ICHARDSON OPERATING CO. 55  **UL or lot no. Section Township Range Let Ids Feet from the North/South line Feet from the East/West line 29 30 N. 14 W 790 North 1410 East S  **I Bottom Hole Location If Different From Surface  **UL or lot no. Section Township Range Let Ids Feet from the North/South line Feet from the East/West line 1 Dedicated Acres 1 Joint or Infill 1 Consolidation Code 1 Order No.  **No ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION  16  17 OPERATOR CERTIFITE THE TABLE THE DIVISION IN THE			WE	ELL LO	CATION	AND ACE	REAGE DEDI	CATION PL	_AT		
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## WALSHI

**ENGINEERING & PRODUCTION CORP.** 

Petroleum Engineering Consulting Lease Management Contract Pumping

July 29, 1999

7415 East Main Farmington, New Mexico 87402 (505) 327-4892 • Fax: (505) 327-9834

Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc. 105 South Fourth Street Artesia, NM 88210

Attn. Land Department

Re: Downhole Commingle Application
Richardson Operating Company
WF Federal 29-1
790' FNL & 1410' FEL, Section 29, T30N, R14W
San Juan County, New Mexico
Basin Fruitland Coal and Mounds Frt. Sand/ Pictured Cliffs Ext.

To Whom It May Concern,

Enclosed you will find a copy of the above referred to application that has been submitted to the New Mexico Oil Conservation Division for administrative approval. As royalty or overriding royalty interest owner you are being notified of this application pursuant to NMOCD rules.

If you desire to submit remarks concerning the application, please send them to Ms. Lori Wrotenberry, Director, New Mexico Oil Conservation Division, Santa Fe, New Mexico with in 20 days from the receipt of the notice. If you have no objection the proposal, no action is required on your part.

Thank you for your consideration in this matter and if you have any questions or concerns, please do not hesitate to contact me at 505-327-4892.

John C. Thompson

Engineer

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# WALSHI

**ENGINEERING & PRODUCTION CORP.** 

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892 • Fax: (505) 327-9834

Dugan Production Corp. P.O. Box 420 Farmington, NM 87499 July 29, 1999

Attn. Land Department

Re: Downhole Commingle Application
Richardson Operating Company
WF Federal 29 #1
790' FNL & 1410' FEL, Section 29, T30N, R14W
San Juan County, New Mexico
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John C. Thompson

Engineer

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#### ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892 • Fax: (505) 327-9834

Bureau of Land Managment 1235 La Plata Highway Farmington, NM 87401

July 29, 1999

Attn. Duane Spencer / Land Department

Re: Downhole Commingle Application
Richardson Operating Company
WF Federal 29-1
790' FNL & 1410' FEL, Section 29, T30N, R14W
San Juan County, New Mexico
Basin Fruitland Coal and Mounds Frt. Sand/ Pictured Cliffs Ext.

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John C. Thompson

Engineer

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#### **ENGINEERING & PRODUCTION CORP.**

Petroleum Engineering Consulting Lease Management Contract Pumping 7415 East Main Farmington, New Mexico 87402 (505) 327-4892 • Fax: (505) 327-9834

Amoco Production Company P.O. Box 3092 Houston, Texas 77253-3092 July 29, 1999

Attn. Land Department

Re: Downhole Commingle Application
Richardson Operating Company
WF Federal 29 #1
790' FNL & 1410' FEL, Section 19, T30N, R14W
San Juan County, New Mexico
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Frt. Sand/ Pictured Cliffs Ext.

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John C. Thompson

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