DATE IN 5/15/00	SUSPENSE 6/5/00 ENGINEER DC LOGGED KN TYPE DHC									
	ABOVE THIS LINE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -									
······	ADMINISTRATIVE APPLICATION COVERSHEET									
THIS CO	VERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS									
[1	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] C-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] PC-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] R-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]									
[1] <b>TYPE OF</b> [A]	APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD									
Che [B]	ck One Only for [B] and [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM									
[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery									
[2] NOTIFICA [A]	ATION REQUIRED TO: - Check Those Which Apply, or 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]	Define For all of the above, Proof of Notification or Publication is Attached, and/or,									
[F]	U Waivers are Attached									

## [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

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 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 capacity.

_ Ca	thl	een C	olby	
			Name	

Cathleen	, Collan	Land Manager
Signature	0	Title

5	-9-00
D	ate



## RICHARDSON OPERATING COMPANY

1700 Lincoln, Suite 1700 Denver, Colorado 80203 (303) 830-8000 FAX (303) 830-8009

May 9, 2000

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

> RE: Downhole Commingle Application WF State 2-1 1750' FNL, 790' FEL 2-30N-14W San Juan County, NM Basin Fruitland Coal and Harper Hill FR Sand PC Ext.

Dear Ms. Wrotenberry:

This is a request for administrative approval for downhole commingling of the production from the captioned formations. A previous application may have been submitted to your office in April or May, 1999, but that particular location was never drilled. This application reflects the new location.

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

The New Mexico State Land Office is being notified of this application by certified return receipt mail. A copy of this letter is also enclosed.

Thank you for your consideration and approval of this application. If you have any questions or concerns please do not hesitate to contact the undersigned.

Sincerely,

O'éhea

Chris O'Shea Lease Analyst

cos enclosures

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District I	
1625 N. French Dr., Ho	bbs, NM 88240
District II	
811 South First, Artesia	, NM 88210
District III	

1000 Rio Brazos Rd., Aztec, NM 87410

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# State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 87505-6429

	Form C-107-A
	Revised August 1999
APPR	OVAL PROCESS:
<u> </u>	Hearing

## APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE X YES NO

<u>District IV</u> 2040 South Pacheco, Santa Fe, NM 87505	APPLICATION FOR DOW	VNHOLE COMMINGLING	X YES NO
Richardson Operating Company	1700 Lincoln, Suite 1700, De	enver, CO 80203	
Operator WF State 2 Lease OGRID NO. 019219 Property C	Well No. Unit Lt	2-30N-14W r Sec - Twp - Rge	San Juan County ng Unit Lease Types: (check 1 or more) State X (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	Basin Fruitland Coal 71629		Harper Hill FR Sand-PC Ext. 78160
2. Top and Bottom of Pay Section (Perforations)	1610' - 1618'		1624' - 1632'
3. Type of production (Oil or Gas)	Gas		Gas
<ol> <li>Method of Production (Flowing or Artificial Lift)</li> </ol>	to be determined		to be determined
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a.	a.	a.
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. <b>200 (est.)</b>	b.	b. 200 (est.)
6. Oil Gravity (°API) or Gas BTU Content	1000		1000
7. Producing or Shut-in?	Shut-in waiting on pipeline		Shut-in waiting on pipeline
Production Marginal? (yes or no)	yes		yes
* If Shut-in, give date and oil/gas/ water rates of last production Note: For new zones with no production history applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
<ul> <li>If Producing, give date and oil/gas/ water rates of recent test (within 60 days)</li> </ul>	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oli: Gas: % %	Oli: Gas: % %	Oil: Gas: % %
<ul> <li>submit attachments with supp</li> <li>10. Are all working, overriding, are if not, have all working, overriding, overriding, are if not, have all working, overriding, are all production be recover</li> <li>11. Will cross-flow occur?</li></ul>	ized with, state or federal lands, eit d Management has been notified in	and and providing rate projections commingled zones? tified by certified mail?	or other required data. Yes X No Yes No be damaged, will any cross- No (If No, attach explanation) No es, attached explanation) ands or the X Yes No
* Notification list of wo	rking, overriding, and royalty interents, data, or documents required nents, data, or documents required network is true and complete to the /	d to support commingling.  e best of my knowledge and belief	

SIGNATURE	Jarr	1 Vag	iei	TITLE	Consulting Geologist	DATE	May 9, 2000
TYPE OR PRINT NA	ME Barry G				TELEPHONE NO.	303-830-8000	

## FRUITLAND COAL FORMATION:

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

> Working Interest: Richardson Production Company

Royalty Interest: State of New Mexico VA-1916-1 State of New Mexico B-11124-44 State of New Mexico B-11124-37 State of New Mexico E-3149-1 State of New Mexico E-1545

Overriding Royalty Interest: Evko Development Company Credo Petroleum Corporation R.K. O'Connell C.S. O'Connell Bill D. Farleigh Don E. Lawson & Marjorie C. Lawson, Trustees of the Lawson Trust Robert L. Hamilton Myrtle Jo Orzalli

## **PICTURED CLIFFS FORMATION:**

Township 30 North, Range 14 West Section 2: NE/4 Containing 160.00 acres, more or less San Juan County, NM

> Working Interest: Richardson Production Company

<u>Royalty Interest:</u> State of New Mexico VA-1916-1 State of New Mexico B-11124-44 State of New Mexico E-3149-1 State of New Mexico E-1545

Overriding Royalty Interest: Credo Petroleum Corporation R.K. O'Connell C.S. O'Connell Bill D. Farleigh Don E. Lawson & Marjorie C. Lawson, Trustees of the Lawson Trust Robert L. Hamilton Myrtle Jo Orzalli

## Richardson Operating Company WF State 2-1 Commingling Application

There are currently no Fruitland Coal or Pictured Cliffs completions in the nine-section area surrounding this well. The closest Fruitland Coal offset is Richardson's Ms. Nona #2 (located approximately 2.0 miles SSW in Unit A, Section 15, Township 30 North, Range 14 West), which was approved for downhole commingling of the Fruitland Coal and Pictured Cliffs formations in Administrative Order DHC-2367.

Based on recent Richardson Operating Company wells in this township, 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 Company proposes to allocate the production based on a ratio of the initial production rates. The Pictured Cliffs zone will be completed first and tested. The test results will establish the baseline for the Pictured Cliffs production. The Fruitland Coal formation will then 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.

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

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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

AMENDED REPORT

	WE	LL LOO	CATION	I AND /	ACR	REAGE	E DEDI	CAI	TION PL	AT			
'API Numbe	3 Pool Nu	me											
* Property Code	'Property Name     'Well Numbe       WF State     2-1										r		
'OCRID No.									' Elevation 5935 '				
				<sup>10</sup> Surf	ace	Locati	ion			····	·		
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources 5.8

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Revised October 18, 1994 Instructions on back

Submit to appropriate District Office State Lease-4 Copies Fee Lease-3 Copies

AMENDED REPORT

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	<sup>1</sup> API Numb	er		<sup>2</sup> Pool C				<sup>3</sup> Pool Name Fruitland Co	1		
4 Dmna	rty Code	[		7162	29 <sup>5</sup> Property N	<sup>4</sup> Well No.					
						#1					
<sup>7</sup> OGR		-	Elevation								
019		5935'									
<sup>10</sup> Surface Location											
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11							]	<sup>17</sup> OPERA	TOR	CERTIFICATION	
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								true and complete to the best of my knowledge and belief			
								Cathleen Collay			
								Signature		U	
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							Printed Name				
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back

Submit to appropriate District Office State Lease 4 Copies Fee Lease 3 Copies

AMENDED REPORT

<sup>1</sup> APR Number <sup>1</sup> Prod Code <sup>1</sup> Prod Name       98863 <sup>1</sup> Structure Nume     Wildcal Pictured Cliffs <sup>1</sup> OCRE No.     WF State 2     #1       1 OCRE No.     10 Product Nume     #1       019219     Richardson Operating Company     5935       10     30N     14W     1750     North       14     2     30N     14W     1750     North       11     1700 December Nume     1750     North     790     East       14     2     30N     14W     1750     North     790     East     San Juan       11     11     1700 Deced Decode In 100 Inferent From Surface     County     East     County       11     10     Proposed Decode In 100 Inferent From Surface     County     County       11     10     Consolidation Code     10 Oner No.     Free from the East/Weat line     County       12     20 one or Infit     10 Oner No.     Tomposed Doct No North     70 December Surface     County       12     20 one or Infit     10 Oner No.     10 Oner No.     10 Oner No.       14     20 one or Infit     10 Oner No.     10 Oner No.     10 Oner No.       14     10     10 Oner No.     10 Oner No.     10 Oner No. <td< th=""><th></th><th></th><th></th><th>WELL LO</th><th></th><th>ON AND ACRI</th><th></th><th></th><th>Γ</th><th></th></td<>				WELL LO		ON AND ACRI			Γ		
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VA 1916     E 3149-1     Signature       VA 1916     Signature     Land Manager       Title     1/2/2/00     Signature       VA 1916     Signature     Signature and Seal of Professional Survey       VA 1916     Signature and Seal of Professional Surveyer:     Signature and Seal of Professional Surveyer:	16						1			CERTIFICATION	
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SURVEYOR CERTIFICATION Interpret out of the well location shown on this plet we provided from field notes of actual surveys made by me or under my supervision, and theil the same is true and correct to the best of my belief. Date of Survey Signature and Seal of Professional Surveyer:			<u></u>					Date			
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C 52 B2 LB BEER						<u> </u>	AR 2000	Date			
C SZ BZ LL BEST								Signa	ture and Seal of Pro	(essional Surveyer:	
Certificate Number						<u>ه</u> م	A STREET				
								Certifi	cate Number		

#### **Richardson Operating Company**

### WF State 2-1 1750' FNL, 790' FEL-Section 2-T30N-R14W San Juan County, New Mexico Basin Fruitland Coal and Harper Hill FR Sand PC Ext.

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

New Mexico State Land Office PO Box 1148 Santa Fe, NM 87504-1148

Mrs. Myrtle Jo. Orzalli 2790 Bruce Street Matlacha, FL 33993

Credo Petroleum Corporation 1801 Broadway, Suite 900 Denver, CO 80202

C.S. O'Connell PO Box 371 Casper, WY 82602 Mr. Robert L. Hamilton 8 Blacklog Road Kentfield, CA 94904

Evko Development Company PO Box 245 Sausalito, CA 94966

R.K. O'Connell PO Box 2003 Casper, WY 82602

Bill D. Farleigh PO Box 3215 Casper, WY 82602-3215

Don E. & Marjorie C. Lawson Trustees of Don E. & Marjorie Lawson Living Trust 3350 Arroyo Place Casper, WY 82604

I certify that a copy of the Application for Downhole Commingling has been mailed to the above interest owners.

Cathleen Colly

STATE OF COLORADO ) ss. COUNTY OF DENVER

The following instrument was acknowledged before me this 10th day of May\_\_\_\_\_, 2000 by Cathleen Colby.

Sehris Q **Jotary Public** 

My Commission Expires:

8:24-02,



## RICHARDSON OPERATING COMPANY

1700 Lincoln, Suite 1700 Denver, Colorado 80203 (303) 830-8000 FAX (303) 830-8009 May 9, 2000

New Mexico State Land Office PO Box 1148 Santa Fe, NM 87504

Attention: Land Department

RE: Downhole Commingle Application WF State 2-1 1750' FNL, 790' FEL 2-30N-14W San Juan County, NM Basin Fruitland Coal and Harper Hill FR Sand PC Ext.

Gentlemen:

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

An application dated April 30, 1999 for this well was previously approved by your office on April 20, 2000 when the well location was Unit A (800'FNL and 915'FEL). However, this location was never drilled. By Sundry Notice dated March 7, 2000 and approved March 13, 2000, the location was moved to Unit H (1750'FNL and 790'FEL). Peter Martinez of your office recommended we provide you with updated paperwork, but that an additional filing fee would not be required.

If you desire to submit remarks concerning the application, please send them to Ms. Lori Wrotenberry, Director, New Mexico Oil Conservation Division, 2040 S. Pacheco, Santa Fe, New Mexico 87504 within 20 days from receipt of this notice. If you have no objection to the proposal, please provide concurrent approval for the new location.

Thank you for your consideration in this matter, and if you have any questions or concerns, please do not hesitate to contact the undersigned.

Sincerely,

nis OGACA Chris O'Shea

Lease Analyst

cos enclosure COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766

ADMINISTRATION Phone (505) 827-5700 Fax (505) 827-5853

GENERAL COUNSEL Phone (505) 827-5713 Fax (505) 827-4262

 PUBLIC AFFAIRS

 Phone
 (505) 827-5765

 Fax
 (505) 827-5766

April 20, 2000

Richardson Operating Company 1700 Lincoln Street Suite 1700 Denver, Colorado 80203

Attn: Mr. Paul C. Thompson

Re: Downhole Commingling Application
 WF State Well No. 2-1
 Unit Letter A, Section 2-30N-14W
 Basin Fruitland Coal and Undesignated Harper Hill Fruitland Sand Pictured Cliffs Extension Pools
 San Juan County, New Mexico

Dear Mr. Thompson:

Your application to downhole commingle the Basin Fruitland Coal and Undesignated Harper Hill Fruitland Sand Pictured Cliffs Extension production from within the wellbore of the above-captioned well has been received.

Since it appears that all the New Mexico Oil Conservation Division's rules and regulations have been complied with, and there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for downhole commingling is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division.

Your \$30.00 dollar filing fee has been received.

Also, please submit the appropriate approval from the New Mexico Oil Conservation Division.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M. COMMISSIONER OF PUBLIC LANDS

BY:

JAMI BAILEY, Director Oil, Gas and Minerals Division (505) 827-5744

RP/JB/cpm Enclosure xc: Reader File

OCD--Attention: David Catanach, Ben Stone

"WE WOR Qil, Gas & Minerals Division

310 Old Santa Fe Trail, P. O. Box 1148 Santa Fe, New Mexico 87504-1148

COMMERCAL RESOURCES Phone (505) 827-5724 Fax (505) 827-6157

MINERAL RESOURCES Phone (505) 827-5744 Fax (505) 827-4739

ROYALTY MANAGEMENT Phone (505) 827-5772 Fax (505) 827-4739

SURFACE RESOURCES Phone (505) 827-5793 Fax (505) 827-5711



# New Mexico State Land Office Commissioner of Public Lands Ray Powell, M.S., D.V.M.