ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

# **ADMINISTRATIVE APPLICATION COVERSHEET**

	THIS COVERS	SHEET IS MANDATORY	FOR ALL ADMINISTR	ATIVE APPLICATI	ONS FOR EXCEP	TIONS TO DIVISIO	N RULES AND REGULAT	ons /
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	[C]	Injection - D WFX	-				•	
[2] NOT	FICAT	ION REQUI	RED TO: -	Check Tho	se Which	Apply, or	Does Not A	pply
	[A]	Working,	Royalty or C	Overriding 1	Royalty In	terest Owr	ners	
	[B]	Offset Op	erators, Leas	seholders o	r Surface	Owner		
	[C]	Application	on is One Wh	ich Requir	es Publish	ed Legal N	lotice	
	[D]	Notification	on and/or Co					
	[E]	☑ For all of	the above, P	roof of No	tification o	or Publicati	on is Attached	, and/or,
	[F]	□ Waivers a	re Attached					
[3] INFO	RMAT	ION / DATA	SUBMITT	ED IS CO	MPLETE	C - Stateme	nt of Understa	nding
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		Note: Sta	tement must be c	<b>6</b>		n supervisory c	apacity.	
Cathleen Coll	·		Cathlees Signature	Colla	)		and Manager	1-3-00
Print or Type Na	arite.		Signature	C	<b>,</b>	Title		Date



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

January 3, 2000

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

RE: Downhole Commingle Application

WF State 16-2

900' FNL, 1745' FEL 16-30N-14W

Whiis & Thea

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.

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,

Chris O'Shea

Lease Analyst

cos enclosures

### 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

2040 South Pacheco, Santa Fe, NM 87505

# State of New Mexico

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

	F	Revised August 1999
	APPRO'	VAL PROCESS:
X	_Administrative	Hearing

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EXISTING WELLBORE X YES NO

Form C-107-A

Richardson Operating Company		coln, Suite 1700, Denver, CO 80203	
Operator	Addres		
WF State 16	#2 B Well No. Unit Lt	16-30N-14W r Sec - Twp - Rge	San Juan County
Lease           OGRID NO.         019219         Property C		· •	g Unit Lease Types: (check 1 or more)StateX(and/or) Fee
The following facts are submitted in	Upper	Intermediate	Lower
support of downhole commingling	Zone	Zone	Zone
Pool Name and     Pool Code	Basin Fruitland Coal 71629		Harper Hill FR Sand PC ext. 78160
Top and Bottom of     Pay Section (Perforations)	1274' - 1282'		1292' - 1300'
Type of production     (Oil or Gas)	Gas		Gas
Method of Production     (Flowing or Artificial Lift)	Pumping		Pumping
Bottomhole Pressure     Oil Zones - Artificial Lift;     Estimated Current	(Current) a.	a.	a.
Gas & Oil - Flowing:  Measured Current  All Gas Zones:	(Original) b.	b.	b.
<u>Estimated</u> or Measured Original	200		200
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:
* If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
Fixed Percentage Allocation     Formula -% for each zone	Oil: Gas: %	Oil: Gas:	Oil: Gas:
submit attachments with supp 10. Are all working, overriding, an	upon something other than current porting data and/or explaining meth ad royalty interests identical in all co ding, and royalty interests been no	nod and providing rate projections opmingled zones?	or other required data. Yes <u>X</u> No
	Yes X No If yes, are fluids ed, and will the allocation formula b		
12. Are all produced fluids from a	ıll commingled zones compatible w	ith each other? X Yes	No
13. Will the value of production be	e decreased by commingling?	Yes X No (If Ye	es, attached explanation)
	: ized with, state or federal lands, eit I Management has been notified in		ands or the X Yes No
15. NMOCD Reference Cases for	or Rule 303(D) Exceptions:	ORDER NO(S).	<del></del>
* Production curve for * For zones with no pro * Data to support alloc * Notification list of wo	to be commingled showing its spa each zone for at least one year. (I oduction history, estimated product eation method or formula. rking, overriding, and royalty intere- ments, data, or documents required	icing unit and acreage dedication. If not available, attach explanation. Ition rates and supporting data. Its for uncommon interest cases.	)
I hereby certify that the information	n above is true and complete to the	e best of my knowledge and belief.	
SIGNATURE Savi	ryk bager TITLE	E Consulting Geologist	DATE January 3, 200
TYPE OR PRINT NAME Barry	Gager	TELEPHONE NO.	303-830-8000

# Richardson Operating Company WF State 16-2 Commingling Application

The WF State 16-2 is a newly drilled Basin Fruitland Coal/Harper Hill Frt. Sand Pictured Cliffs Ext. well. This is part of Richardson's development program in their WF (West Farmington) field. This is the second Pictured Cliffs and Fruitland Coal well in this section. The first such well in the section is Richardson's WF State 16-1 (Unit M, Sec. 16, T30N, R14W), which was approved for downhole commingling of the Fruitland Coal and Pictured Cliffs formations in Administrative Order DHC-2433.

Based on recent Richardson Operating 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 proposes to allocate the production based on the initial production rates from the Pictured Cliffs. The well will be perforated and stimulated in the Pictured Cliffs formation. The stimulation will then be cleaned up and the well flow tested. The production based on the flow test will establish the Pictured Cliffs base rate. The Fruitland Coal formation will be completed separately but it will be produced with the Pictured Cliffs. The Fruitland Coal production will be the total measured production minus the Pictured Cliffs production.

Assuming a 7% decline rate from the Pictured Cliffs, the proposed 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.

1625 N. French Dr., Hobbs, NM 88246

State of New Mexico

Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1994

811 South First, Artesia, NM 97210 District III 1900 Rie Bransa Rd., Aziec, NM 97410 District IV

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Certificate Number

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311 South First, Artesia, NM 88218

District III 1000 Rio Brasss Rd., Astre, NM 87410

2640 South Packets, Sents Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised March 17, 1994

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

API Number 1 Pool Code 1 Property Name 1 Pool Code 1 Property Name 1 North State 16-2  'OGRID'S 1 Post Name 1 North State 16-2  'OGRID'S 1 Post Name 1 Post Name 16-2  'OGRID'S 1-2  'OGRID'S			W	ELL LO	CATIO	N AND ACR	EAGE DEDIC	ATION	I PLAT		
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**Operator Name** O19219  **RICHARDSON OPERATING COMPANY*  **Surface Location** **Buffer of the season of the seas	Property C	ade .				, -					
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# Richardson Operating Company WF State 16-2

### **NOTIFICATION LIST**

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

EVKO Development Company PO Box 245 Sausalito, CA 94966

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

# Richardson Operating Company

# WF State 16-2 900' FNL, 1745' FEL, Section 16-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:

Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc. EVKO Development Company New Mexico State Land Office

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

Cathleen Collage
Cathleen Collage

STATE OF COLORADO	)
COUNTY OF DENVER	) ss. )
The following instrument was by Cathleen Colby	vas acknowledged before me this 3rd day of January, 2000  Notary Public
My Commission Expires:	

### Richardson Operating Company WF State 16-2

### FRUITLAND COAL FORMATION:

Township 30 North, Range 14 West Section 16: E/2 Containing 320.00 acres, more or less San Juan County, NM

Working Interest:
Richardson Production Company

Royalty Interest:
State of New Mexico B-11242-47
State of New Mexico V-4832

Overriding Royalty Interest: Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc. EVKO Development Company

### PICTURED CLIFFS FORMATION:

Township 30 North, Range 14 West Section 16: NE/4 Containing 160.00 acres, more or less San Juan County, NM

Working Interest:
Richardson Production Company

Royalty Interest:
State of New Mexico B-11242-47

Overriding Royalty Interest: EVKO Development Company

1 700 Lincoln, Suite 1 700 Denver, Colorado 80203 (303) 830-8000 FAX (303) 830-8009

January 3, 2000

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

Attention:

Land Department

RE: Down

Downhole Commingle Application

WF State 16-2

900' FNL, 1745' FEL 16-30N-14W

huis & Shear

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.

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.

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,

Chris Q'Shea Lease Analyst

cos enclosure 1 700 Lincoln, Suite 1 700 Denver, Colorado 80203 (303) 830-8000 FAX (303) 830-8009

January 3, 2000

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

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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,

Chris O'Shea

Lease Analyst

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