# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-4 Form must be typed July 2006

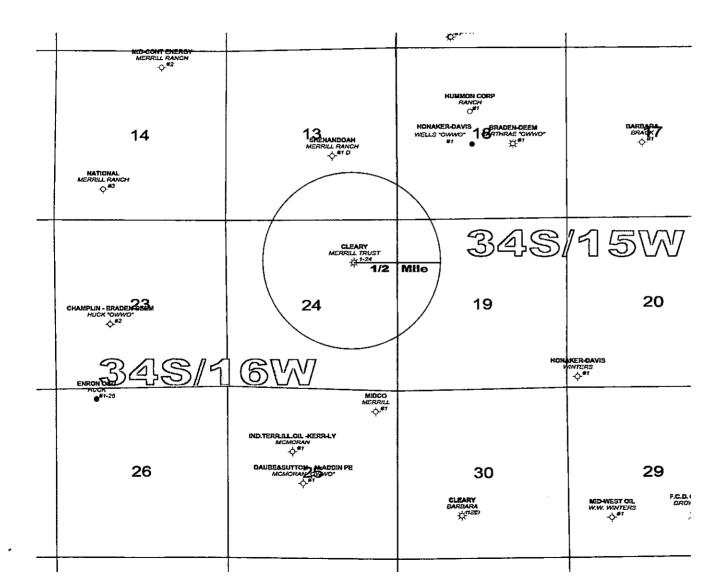
Commingling ID # COU90804

# APPLICATION FOR COMMINGLING OF Con PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

operator information:	weii information:		
License #: 32566	API #:15 - 033		
Name: Cleary Petroleum Corporation		errill Trust	
Address: 3817 N.W. Expressway, Suite 1050			Twp. 34 S. R. 16 East
City/State/Zip: Oklahoma City, OK 73112	•	che	
Contact Person: George Moore	<del></del>	orth / South Line of S	
Phone #: 405-848-5019	Feet from 🕢 Ea	ast / West Line of S	ection: 990'
1. Name and upper and lower limit of each produc	tion Interval to be commi	ngled:	
Formation: Mississippi (Detrital & Solid)	(Perfs): 4832'-4	862'	
Formation: Oswego	(Perfs): 4761'-4	769'	
Formation:	(Perfs):		
Formation:	(Perfs):		
Formation:	(Perfs):		
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
2. Estimated amount of fluid production to be commingled t			
Formation: Mississippi (Detrital & Solid)			BWPD: <u>34</u>
Formation: Oswego	BOPD: 0	MCFPD: 4	BWPD: 0
Formation:	BOPD:	MCFPD:	BWPD:
Formation:	BOPD:	MCFPD:	BWPD:
Formation:	BOPD:	MCFPD:	BWPD:
4. Signed certificate showing service of the application and  For Commingling of PRODUCTION ONLY, include the following:	affidavit of publication as	s required in K.A.R. 82-3	<b>135a.</b>
5. Wireline log of subject well.			RECEIVED
6. Complete Form ACO-1 (Well Completion form) for the sui	bject well.		KANSAS CORPORATION COMMISSIO
For Commingling of FLUIDS ONLY, include the following:			AUG 2 2 2008
5. Well construction diagram of subject well.			CONSERVATION DIVISION
6. Any available water chemistry data demonstrating the co	empatibility of the fluids to	o be commingled.	WICHITA, KS
State of Oklahoma )	Λ		
	ss:	,	
County of Oklahoma	M/A	musica	
VERIFICATION: I hereby certify that to the best of my current information,	Signature:		
knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with	Printed Name: Georg	e Moore	
the information supplied in this application.	Title: Vice President,	Operations	
		before me this 19th day	of August 20 08
KCC Office Use Only	Notary Public:	Willes Show	
Denied Approved	My Commission Expire	100	
KCC Date Received: 15-Day Periods Ends: Old N		[M[ "''411/10/_ 2	t in the application. Protests must be
Approved By: Date: WWW	in writing and comply with the notice of application.	KA PO BE TO STAND MUST b	t in the application. Protests must be e filed wihin 15 days of publication of

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CONSERVATION DIVISION WICHITA, KS





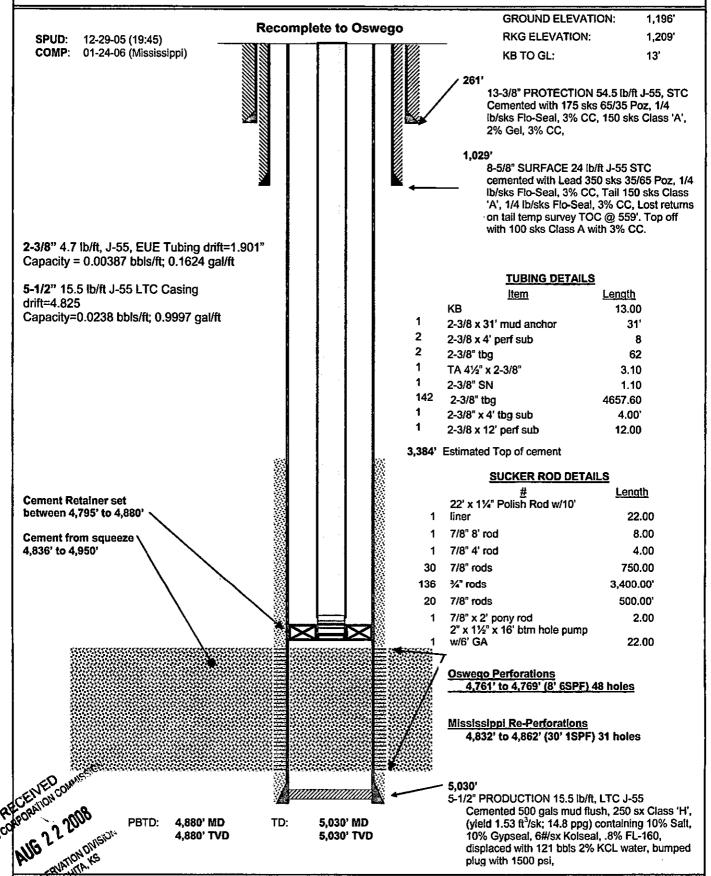
BALL	ET RANCH PROSPECT
Parhae 9	Comanche County, Kansas
	Base Map with Wells



# WELL SCHEMATIC Merrill Trust 1-24

Section 24-T34S-R16W Comanche County, Kansas DRAWN BY: GUS GUSTAFSON

DATE: 04/03/06



# Water Analysis

Analysis #:20582

16208865482

Company: CLEARY PETROLEUM Field: CLEARY PETROLEUN Lesse: MFRRILL TRUST 1-24

Location: Description: Welk

Sample Point: BLEEDER



# Chemicais, L. L. C.

STEPLING, KS 97679

Fex 630-278-4112 Webs worklitchen.com

Comit southerd Jaconsouth

Date: July 30, 2008 Attention: RON RICKE

#### **DISSOLVED SOLIDS**

CATIONS	me/l	meal
Sodium, Na (calc)	72,051.41	3,132.67
Calcium, Ga	16,560.00	023.88
Magnesium, Mg	695.66	52.12
Barium, Ba	7.00	0.10
Iron. Fe	50.00	2,69

#### OTHER PROPERTIES

рН	4.23
Specific Gravity	1.140
Dissolved Oxygen, (mg/l)	
Dissolved Carbon Dloxide	530.00
Sulfide as H2S, (ppm)	0.00
Sample Temp:	90F. 32C.
•	

ANIONS	mail	meg/l
Hydroxyl, OH		
Carbonate, CO3		
Bicarbonate, HCO3	12,505.00	204.66
Bulfate, 804	400,00	8.20
Chloride, Cl	133,000.00	3,745.48
Sulfide. 9	0.00	0.00

Total Dissolved Solids (mg/l)	235,209
Total lonic Strength	4.4383
	610
Miximum BaSO4, (calc.)	13

	mgA	meq/
Total Hardness	43,800.00	976.00

#### ESTIMATED MINERAL CONTENT AT SAMPLE TEMPERATURE

	mea/l	<u>ma/1</u>	(bs/kt/b)
CaCOS	0.00	0.00	0.00
CaSO4	6.96	610.00	214.00
Bn804	0.11	13.00	4.00

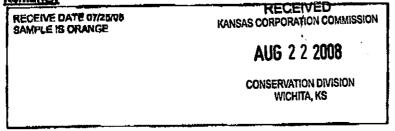
Note:

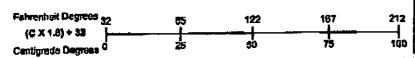
Since scale forming mollacules can exist in solution, refer to the CeCOS calcretion index for CeCC3, or the solubilities for CeSC4 and SeSC4, and compare with the calculated amounts above to determine if precipitated scale may be possible.

#### Conclusion:

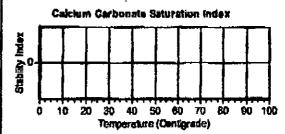
Calcium Carbonate scaling index not calculated. TIS above 4. Calcium Sulfate scale is indicated. See appropriate chart for temporature ranges. Bartum Sulfate ecole is indicated at all temperatures.

#### Remarks:

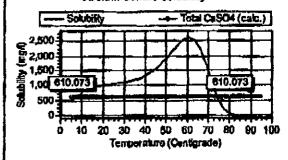




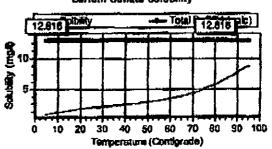
### Scaling indices vs. Temperature



#### Calcium Suttate Solubliky



#### Berlum Sulfate Solubility



#### version 2.0

COMPANY: LEASE/WELL #: CLEARY PETROLEUM MERRILL TRUST 1-24

DATE:

07/30/08

REV: 5/6/86

STIFF-DAVIS

FORMULA SI - pH - pCa - pAlk - K

pH is the pH of the sample of water
pCa is the negative logarithm of the calcium concentration
pAlk is the negative logarithm of the total alkalinity
k is a constant determined by the amount of dissolved
colids and temperature

рн 4.23 ) pca = Ca .( 16560 } 0.3829997 НСОЭ ∘ 125.05 ) pAlk = 2.5682461 Hg/L Na 72,051 ) x 2.2 B-5 1.5851 16,560 ) Ca 0.8280 x 5.0 B-5 Mg 636 ) x 8.2 E-5 0.0522 CI 133,000 ) x 1.4 R-5 1.8620 HCO3 ( 125 ) x 0.8 E-5 0.0010 S04 400 ) x 2.1 E-S 0.0084 TOTAL IONIC STRENGTH 4.3367

TEMP	(P)	% Value	SI Value
	68	2.60	-1.44
	86	2.39	-1.23
	104	2.01	-0.85
	122	1, . 65	··0.49
	140	1.03	0.13
	158	0,49	0.68
	176	8898.00	-6896.84
	194	8889.00	-9986.84

Note: Positive SI indicates scaling. Negative indicates corrosion.

		x	¥
		1	5
VALUE =	3.1	2	12
FROM GRAPH	14	3	14
		4	15

## AFFIDAVIT OF MAILING

Application for approval to commingle production Re: of the Mississippi (Detrital & Solid) & Oswego sources of supply in the Merrill Trust #1-24 Well, Located in the C NE SE NW, Section 24-34S-16W Comanche County, Kansas

I, George Moore, being first duly sworn upon oath, state, that I am the applicant or agent of the above applicant. I certify that on the 1st day of July, 2008, I mailed a copy of the application to the respondents named below at their respective mailing addresses:

### Operator or Lessee and Addresses

**Acreage Description** 

Agent for Merrill Trusts Mr. Craig Hauschild, Farmer National Company Minerals Management Department 403 S. Cheyenne, Suite 800 Tulsa, OK 74103

NW SE & SW Section 13-34S-16W All of Section 24-34S-16W

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Sup 25 2008

CONSERVATION DIVISION WICHITA, KS

No other wells exist within a one-half mile radius of the Merrill Trust #1-24 or of the subject acreage.

## Mineral Owners in Unleased Acreage:

No unleased mineral owners of record exist within a one-half mile radius of the Merrill Trust ##1-24.

George Moore

Vice President, Operations Cleary Petroleum Corporation 3817 NW Expressway, Suite 1050 Oklahoma City, OK 73112

Subscribed and sworn to before me this the 9th day of Splenber 2008.

Notary Public

\*\*05011767 EXP. 1211110 exion expires /2-11-10 My commissi

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MERPILL TRUSTION

EXXON 50%

FBAR -50%

7-BAR -100%

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BALLET RAI	NCH PROSPECT
Barber & Comar	che County, Kansas
Base Ma	p with Wells



	_
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailplece, or on the front if space permits.</li> </ul>	A. Signature  X. 3/4 Agent  B. Received by (Printed Name)  Jenni Law 67208
Article Addressed to:	Is den any address different from item 1? Yes
Craig Hauschildt 403 S. Cheyenne, Suite Tulsa, OK 74103	
Re: Merrill Trusts	2 Service // pe 2 Dertified Mail
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from/service látiel)	3½0,,Q0QH ¼¼7,Q,7%22 ,
PS Form 3811, February 2004 Domestic Retu	ırn Receipt 102595-02-M-1540

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SEP 25 2008

CONSERVATION DIVISION WICHITA, KS

Mr. Craig Hauschildt Farmer National Company Minerals Management Department 403 S. Cheyenne, Suite 800 Tulsa, OK 74103

Re: Merrill Trusts

Merrill Trust #1-24 Section 24-34S-16W Comanche County, KS

Dear Mr. Hauschildt:

As per our phone conversation, enclosed is the Legal Notice expressing Cleary Petroleum Corporation's intent to commingle production of the Mississippi and Oswego sources of supply in the above referenced well.

If you have any questions or require any additional information please do not hesitate to phone me at (405) 286-9473 or email me at stice@clearypetroleum.com.

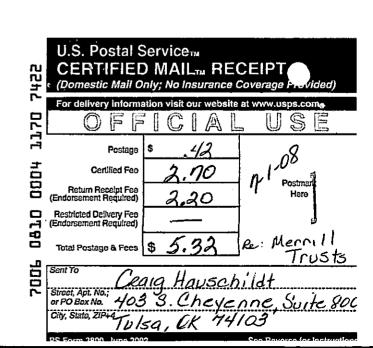
Sincerely,

#### **CLEARY PETROLEUM CORPORATION**

Susan Tice Engineering Tech

Enclosure

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SEP 25 2008



# AFFIDAVIT OF MAILING

Application for approval to commingle production Re: of the Mississippi (Detrital & Solid) & Oswego sources of supply in the Merrill Trust #1-24 Well, Located in the C NE SE NW, Section 24-34S-16W Comanche County, Kansas

I, George Moore, being first duly sworn upon oath, state, that I am the applicant or agent of the above applicant. I certify that on the 9th day of Leptenber 2008, I mailed a copy of the application to the respondents named below at their respective mailing addresses:

### Operator or Lessee and Addresses:

**Acreage Description** 

**Exxon Oil Corporation** Attn: Land Supervisor P. O. Box 4610 Houston, TX 77210-4610 50% SW/4 Section 18-34S-15W 50% W/2 Section 19-34S-15W

Z-Bar, LLC 1123 Research Drive Bozeman, MT 59718

50% SW/4 Section 18-34S-15W 50% W/2 Section 19-34S-15W 100% NE/4 SE/4 & S/2 SE/4 Section 13-34S-16W

No other wells exist within a one-half mile radius of the Merrill Trust #1-24 or of the subject acreage.

# Mineral Owners in Unleased Acreage:

Merrill Trust #1-24.

My comingsion expires 12-11-10.

No unleased mineral owners of record exist within a one-half mile radius of the

George Moore

Vice President, Operations **Cleary Petroleum Corporation** 3817 NW Expressway, Suite 1050

Oklahoma City, OK 73112

Subscribed and sworn to before me this the 23ul day of Aptenber 20 68.

Messa Die
Notary Public

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**CONSERVATION DIVISION** WICHITA, KS

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece,</li> </ul>	A. Signature  X.   GEE  Agent  Addressee  B. Received by (PrInted Name)  C. Date of Delivery  SEP 1 1973
or on the front if space permits.  1. Article Addressed to:  EXXON OIL CORPORATION ATTN: LAND SUPERVISOR P.O. BOX 4610	D. Is delivery address different from item 1?
HOUSTON, TX 77210-4610	3. Service Type  X Certified Mail
2. Article Number (Transfer from service label) 700L 08	
PS Form 3811, February 2004 Domestic Ret	turn Receipt 102595-02-M-1540

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SEP 2 5 2008



Officers:

WILLIAM B. CLEARY CHAIRMAN OF THE BOARD

DOUGLAS B. CLEARY CEO

LOUISE D. CLEARY CFO

ALPH "SI" SIMON II, CPL VP LAND

DALE WHYBARK VP EXPLORATION

GEORGE M. MOORE VP OPERATIONS September 9, 2008

Exxon Oil Corporation

Attn: Land Supervisor

P. O. Box 4610

Houston, TX 77210-4610

Certified Mail #7006 0810 0004 1170 7309

Re: Merrill Trust #1-24

Section 24-34S-16W

To Whom It May Concern:

Enclosed is a Legal Notice expressing Cleary Petroleum Corporation's intent to commingle production of the Mississippi and Oswego sources of supply in the above referenced well.

If you have any questions or require any additional information, please do not hesitate to phone me at (405) 429-7823 or email stice@clearypetroleum.com.

Sincerely,

#### **CLEARY PETROLEUM CORPORATION**

Susan Tice

**Engineering Tech** 

Susw Juie

Enclosure

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SEP 25 2008

CONSERVATION DIVISION WICHITA, KS

7309		Service <sub>tm</sub> D MAIL <sub>tm</sub> REC Only; No Insurance Co	
	For delivery inform	ation visit our website a	t www.usps.com₅
1170	Postago	s .42	
4000	Certifled Fee Return Receipt Fee (Endorsement Required)	2.70	Postmark Here
0.61.0	Restricted Delivery Fee (Endorsement Required)  Total Postage & Fees	\$ 5.32	9-9-0
7005	S ATTN: LAN	TX 77210-4610	

)	CENTRAL CONTRACTOR
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailplece, or on the front if space permits.</li> </ul>	A. Signature  X. Down   Left   Agent   Addressee  B. Regelved by (Printed Name)   C. Date of Delivery   Addressed   Left   Addressed   Left   Addressed   Left   Addressed   Left   Addressed   Left   Addressed   Addressed   Left   Agent   Addressed   Addresse
1. Article Addressed to:	If YES, enter delivery address below:
Z-BAR LLC 1123 RESEARCH DRIVE BOZEMAN, MT 59718	
	3. Service Type Certified Mail Registered Insured Mail C.O.D.
	4. Restricted Delivery? (Extra Fee)
2. Article Number (Transfer from service label) 7004 C	810 0004 1170 7293
	eturn Receipt 102595-02-M-1540

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SEP 25 2008

CONSERVATION DIVISION WICHITA, KS



OFFICERS:

WILLIAM B. CLEARY HAIRMAN OF THE BOARD

DOUGLAS B. CLEARY CEO

> LOUISE D. CLEARY CFO

ALPH "SI" SIMON II, CPL VP LAND

DALE WHYBARK VP EXPLORATION

GEORGE M. MOORE VP OPERATIONS September 9, 2008

Z-Bar, LLC 1123 Research Drive Bozeman, MT 59718

Certified Mail #7006 0810 0004 1170 7293

Re: Merrill Trust #1-24

Section 24-34S-16W

To Whom It May Concern:

Enclosed is a Legal Notice expressing Cleary Petroleum Corporation's intent to commingle production of the Mississippi and Oswego sources of supply in the above referenced well.

If you have any questions or require any additional information, please do not hesitate to phone me at (405) 429-7823 or email stice@clearypetroleum.com.

Sincerely,

#### CLEARY PETROLEUM CORPORATION

Susan Tice

**Engineering Tech** 

ion This

Enclosure

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SEP 25 2008
CONSERVATION DIVISION
WICHITA, KS

293	U.S. Postal ServiceTM CERTIFIED MAILTM R (Domestic Mail Only; No Insurance	•
1170 7	For delivery information visit our web	site at www.usps.com
1000 0180	Postage \$ .42  Cortified Fee 2.70  Return Receipt Fee (Endorsement Required)  Restricted Delivery Fee (Endorsement Required)  Total Postage & Fees \$ 5.32	Postmark Here 9-9-08
2006	Z-BAR LLC Sire 1123 RESEARCH DRIV City, BOZEMAN, MT 59718 PS Form 3800, June 2002	E See Reverse for Instruction



Kathleen Sebelius, Governor Thomas E. Wright, Chairman Michael C. Moffet, Commissioner Joseph F. Harkins, Commissioner

October 14, 2008

George Moore Cleary Petroleum Corporation 3817 N.W. Expressway, Suite 1050 Oklahoma City, OK 73112

RE:

Approved Commingling CO090804

Merrill Trust 1-24, Sec. 24-T34S-R16W, Comanche County

ÀPI No. 15-033-21455-00-00

Dear Mr. Moore:

Your Application for Commingling (ACO-4) for the above described well has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123a. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period. This application, which was received by the KCC on September 25, 2008 concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

		Estimated Current Production		Perf Depth
Source of Supply	BOPD	MCFPD	BWPD	
Mississippi	6	28	34	4832-4862
Oswego	0	4	0	4761-4769
Total Estimated Current Production	6	32	34	

Based upon the depth of the Mississippi formation perforations, total oil production shall not exceed **200 BOPD** and total gas production shall not exceed 50% of the absolute open flow (AOF).

<u>File form ACO-1 with the Conservation Division when the recompletion (workover) of this well for commingling is complete.</u>

Docket Number CO090804 has been assigned to this approved application. Use this number for well completion reports (ACO-1) and other correspondence that may concern this approved commingling.

Sincerely.

Rick Hestermann

**Production Department** 



Kathleen Sebelius, Governor Thomas E. Wright, Chairman Michael C. Moffet, Commissioner Joseph F. Harkins, Commissioner



August 29, 2008

George Moore Cleary Petroleum Corporation 3817 N. W. Expressway, Suite 1050 Oklahoma City, OK 73112

Re: ACO-4, Application for Commingling Merrill Trust 1-24, 15-033-21455-00-00 Sec. 24-T34S-R16W Comanche County

Dear Mr. Moore,

The following information is needed to complete the referenced ACO-4, Application for Commingling, submitted on August 22, 2008:

ACO-4 Item 4. Signed certificate showing service of the application to the offset leased and unleased mineral owners within ½ mile radius of the well pursuant to K.A.R. 82-3-135 a (b). Please indicate the acreage description of each affected party on the certificate of service.

Please return the requested information to my attention.

Sincerely,

Rick Hestermann Production Department