



**APPLICATION FOR COMMINGLING OF PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)** *Commingling ID # \_\_\_\_\_*

OPERATOR: License # \_\_\_\_\_ API No. 15 - \_\_\_\_\_  
Name: \_\_\_\_\_ Spot Description: \_\_\_\_\_  
Address 1: \_\_\_\_\_ - - - - - Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
Address 2: \_\_\_\_\_ Feet from  North /  South Line of Section  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_ Feet from  East /  West Line of Section  
Contact Person: \_\_\_\_\_ County: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

1. Name and upper and lower limit of each production interval to be commingled:  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
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Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_

2. Estimated amount of fluid production to be commingled from each interval:  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
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Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_

3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.

4. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

**For Commingling of PRODUCTION ONLY, include the following:**

- 5. Wireline log of subject well. Previously Filed with ACO-1:  Yes  No
- 6. Complete Form ACO-1 (*Well Completion form*) for the subject well.

**For Commingling of FLUIDS ONLY, include the following:**

- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

**AFFIDAVIT:** I am the affiant and hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

**Submitted Electronically**

**KCC Office Use Only**  
 Denied  Approved  
15-Day Periods Ends: \_\_\_\_\_  
Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

*Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.*

	A	B	C	D	E	F	G	H	I	J	K
1	Produced Fluids #		1	2	3	4	5		<a href="#">Click here to run SSP</a>  <a href="#">Goal Seek SSP</a>		<a href="#">Click</a>  <a href="#">Click</a>
2	Parameters	Units	Input	Input	Input	Input	Input				
3	Select the brines	Select fluid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mixed brine:			
4	Sample ID	by checking						Cell H28 is			
5	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.			
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			
7	Well Name		Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith	are used in			
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines			
9	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.			
10	Na <sup>+</sup>	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	SI/SR (Final-Initial)
11	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index values		
12	Mg <sup>2+</sup>	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite		
13	Ca <sup>2+</sup>	(mg/l)	1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040.23	-0.73	-0.60	0.13
14	Sr <sup>2+</sup>	(mg/l)						0.00	Barite		
15	Ba <sup>2+</sup>	(mg/l)						0.00			
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite		
17	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb <sup>2+</sup>	(mg/l)						0.00	Gypsum		
19	Cl <sup>-</sup>	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00
20	SO <sub>4</sub> <sup>2-</sup>	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate		
21	F <sup>-</sup>	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br <sup>-</sup>	(mg/l)						0.00	Anhydrite		
23	SiO <sub>2</sub>	(mg/l) SiO <sub>2</sub>						0.00	-3.47	-3.36	0.12
24	HCO <sub>3</sub> Alkalinity**	(mg/l as HCO <sub>3</sub> )	190.00	234.00	259.00	268.00	254.00	241.03	Celestite		
25	CO <sub>3</sub> Alkalinity	(mg/l as CO <sub>3</sub> )									
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide		
27	Ammonia	(mg/L) NH <sub>3</sub>						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H <sub>3</sub> BO <sub>3</sub>						0.00	Zinc Sulfide		
29	TDS (Measured)	(mg/l)						72781			
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium fluoride		
31	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate		
33	Total H <sub>2</sub> Saq	(mgH <sub>2</sub> S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23
34	pH <sub>i</sub> measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)		
35	Choose one option to calculate SI?	0-CO <sub>2</sub> %+Alk, 1-pH+Alk, 2-CO <sub>2</sub> %+pH	0	0	0	0	0	0	Calcite	NTMP	
36	Gas/day(thousand cf/day)	(Mc/D)						0	0.00	0.00	
37	Oil/Day	(B/D)	0	0	1	1	1	4	Barite	BHPMP	
38	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	
39	For mixed brines, enter values for temperatures and pressures in Cells (H40-H43)							(Enter H40-H43)	pH		
40	Initial T	(F)	66.0	71.0	70.0	41.0	49.0	60.0	5.69	5.60	
41	Final T	(F)	66.0	71.0	70.0	41.0	49.0	89.0	Viscosity (CentiPoise)		
42	Initial P	(psia)	25.0	25.0	25.0	25.0	25.0	25.0	1.196	0.826	
43	Final P	(psia)	25.0	25.0	25.0	25.0	25.0	120.0	Heat Capacity (cal/ml/°C)		
44	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959	
45	API Oil Grav.	API grav.						30.00	Inhibitor needed (mg/L)		
46	Gas Sp.Grav.	Sp.Grav.						0.60	Gypsum	HDTMP	
47	MeOH/Day	(B/D)	0					0	0.00	0.00	
48	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP	
49	Conc. Multiplier								0.00	0.00	
50	H <sup>+</sup> (Strong acid) <sup>†</sup>	(N)									
51	OH <sup>-</sup> (Strong base) <sup>†</sup>	(N)									
52	Quality Control Checks at STP:										
53	H <sub>2</sub> S Gas	(%)									
54	Total H <sub>2</sub> Saq (STP)	(mgH <sub>2</sub> S/l)									
55	pH Calculated	(pH)									
56	PCO <sub>2</sub> Calculated	(%)									
57	Alkalinity Cacluated	(mg/l) as HCO <sub>3</sub>									
58	ΣCations=	(equiv./l)									
59	ΣAnions=	(equiv./l)									
60	Calc TDS=	(mg/l)									
61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)					
62	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value		
63	Have ScaleSoftPitzer			2	BHPMP	°C	80	°F	176		
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m <sup>3</sup>	100	ft <sup>3</sup>	3,531		
65	If No, inhibitor # is:	4	#	4	DTPMP	m <sup>3</sup>	100	bb(42 US gal)	629		
66	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074		
67	1 <sup>st</sup> inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194		
68	% of 1 <sup>st</sup> inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193		
69	2 <sup>nd</sup> inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bb(42 US gal)	238		
70	Display act. coeffs?	0	1-Yes;0-No	9	Average	Liters	10,000	bb(42 US gal)	63		
71				10	Mixed						

## Saturation Index Calculations

*Champion Technologies, Inc.*  
(Based on the Tomson-Oddo Model)

**Brine 1:** Ward Feed Yard 34-1

**Brine 2:** Ward Feed Yard 4-1

**Brine 3:** Clinesmith 5-4

**Brine 4:** Clinesmith 1

**Brine 5:** Clinesmith 2

Component (mg/L)	Ratio					Mixed Brine
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO <sub>2</sub> in Brine	246	220	264	422	405	401
Ionic Strength	1.12	1.48	1.46	1.38	1.31	1.31
Temperature (°F)	89	89	89	89	89	89
Pressure (psia)	50	50	120	120	120	119

### Saturation Index

Calcite	-1.71	-1.41	-1.48	-1.68	-1.69	-1.69
Gypsum	-3.71	-3.64	-2.82	-3.73	-3.72	-3.69
Hemihydrate	-3.70	-3.65	-2.83	-3.74	-3.71	-3.69
Anhydrite	-3.89	-3.79	-2.97	-3.89	-3.88	-3.85
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

### PTB

Calcite	N/A	N/A	N/A	N/A	N/A	N/A
Gypsum	N/A	N/A	N/A	N/A	N/A	N/A
Hemihydrate	N/A	N/A	N/A	N/A	N/A	N/A
Anhydrite	N/A	N/A	N/A	N/A	N/A	N/A
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
September 1999  
Form Must Be Typed

ORIGINAL

Operator: License # 33344  
Name: Quest Cherokee, LLC  
Address: 211 W. 14th Street  
City/State/Zip: Chanute, KS 66720  
Purchaser: Bluestem Pipeline, LLC  
Operator Contact Person: Jennifer R. Ammann  
Phone: ( 620 ) 431-9500  
Contractor: Name: TXD Services, LP  
License: 33837

Wellsite Geologist: Ken Recoy

Designate Type of Completion:

New Well     Re-Entry     Workover  
 Oil     SWD     SLOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening     Re-perf.     Conv. to Enhr./SWD

Plug Back     Plug Back Total Depth

Commingled    Docket No. \_\_\_\_\_

Dual Completion    Docket No. \_\_\_\_\_

Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

<u>10/25/06</u>	<u>10/30/06</u>	<u>10/31/06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26982-00-00

County: Wilson

\_\_\_\_\_ ne - se Sec. 4 Twp. 28 S. R. 16  East  West

1980 feet from (S) N (circle one) Line of Section

660 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: Olson, Ruby A. Well #: 4-1

Field Name: Cherokee Basin CBM

Producing Formation: not yet completed

Elevation: Ground: 1022 Kelly Bushing: n/a

Total Depth: 1317 Plug Back Total Depth: 1303.14

Amount of Surface Pipe Set and Cemented at 20 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 1303.14

feet depth to surface w/ 164 sx cmt.

Drilling Fluid Management Plan Att II NH 6-20-08  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Jennifer R. Ammann

Title: New Well Development Coordinator Date: 2/23/07

Subscribed and sworn to before me this 23<sup>rd</sup> day of February

20 07

Notary Public: Denise V. Venneman

Date Commission Expires: 7-1-08

DENISE V. VENNEMAN  
NOTARY PUBLIC  
STATE OF KANSAS  
MY APPT. EXPIRES 7-1-08

KCC Office Use ONLY

N Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received **RECEIVED**  
 UIC Distribution **KANSAS CORPORATION COMMISSION**

FEB 26 2007

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Quest Cherokee, LLC Lease Name: Olson, Ruby A. Well #: 4-1  
 Sec. 4 Twp. 28 S. R. 16  East  West County: Wilson

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

Dual Induction Log  
 Compensated Density/Neutron Log

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum  
 See attached

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8"	20	20	"A"	5	
Production	6-3/4	4-1/2	10.5	1303.14	"A"	164	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	waiting on pipeline		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval \_\_\_\_\_

TXD SERVICES LP

DRILLERS LOG

TXD SERVICES LP

RIG #	101	S. 4	T. 28	R. 16E	GAS TESTS																					
API #	205-26982	County:	Wilson	563'	slight blow																					
Elev:	1,022'	Location	Kansas	720'	slight blow																					
				815'	1 - 1/4"	8.95																				
Operator:	Quest Cherokee, LLC			877'	2 - 3/4"	108																				
Address:	9520 N. May Ave, Suite 300			940'	2 - 3/4"	108																				
	Oklahoma City, OK. 73120			970'	2-1/2" - 3/4"	121																				
Well #	4-1	Lease Name	Olson, Ruby A.	1,063'	2 - 3/4"	108																				
Footage Location	1.98 ft from the (S) Line			1,127'	2 - 3/4"	108																				
	860 ft from the (E) Line			1,158'	1 - 1"	137																				
Drilling Contractor:	TXD SERVICES LP			1,220'	2 - 195	195																				
Spud Date;	10/25/06	Geologist:		TD	GCS																					
Date Completed:	10/30/06	Total Depth:	1,317'																							
Exact spot Location; NE SW																										
<table border="1"> <thead> <tr> <th>Surface</th> <th>Production</th> </tr> </thead> <tbody> <tr> <td>Size Hole</td> <td>12-1/4"</td> <td>6-3/4"</td> </tr> <tr> <td>Size Casing</td> <td>8-5/8"</td> <td>4-1/2"</td> </tr> <tr> <td>Weight</td> <td>24#</td> <td></td> </tr> <tr> <td>Setting Depth</td> <td>20'</td> <td></td> </tr> <tr> <td>Type Cement</td> <td>portland</td> <td></td> </tr> <tr> <td>Sacks</td> <td>5</td> <td></td> </tr> </tbody> </table>							Surface	Production	Size Hole	12-1/4"	6-3/4"	Size Casing	8-5/8"	4-1/2"	Weight	24#		Setting Depth	20'		Type Cement	portland		Sacks	5	
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Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
top soil	0	8	coal	594	595	shale	843	844
shale	8	143	sand/shale	595	601	lime	844	847
lime	143	146	shale	601	646	shale	847	851
shale	146	150	sand	646	649	coal	851	852
lime	150	159	lime	649	654	shale	852	883
sand	159	192	shale	664	673	sand	883	900
sand/shale	192	273	lime	673	678	shale	900	928
lime	273	282	shale	678	708	coal	928	928
sand/shale	282	316	coal	708	709	shale	929	946
sand	316	325	shale	709	725	sand/shale	946	960
lime	325	331	lime	725	741	coal	960	961
shale	331	351	shale	741	761	shale	961	978
lime	351	402	coal	761	763	sand	978	982
shale	402	404	shale	763	771	shale	982	1,004
lime	404	444	lime	771	780	sand	1,004	1,011
sand	444	450	shale	780	800	shale	1,011	1,040
sand/shale	450	456	coal	800	801	coal	1,040	1,041
sand	456	462	shale	801	815	shale	1,041	1,053
lime	462	483	coal	815	816	coal	1,053	1,054
shale	483	486	shale	816	818	shale	1,054	1,068
lime	486	537	lime	818	837	coal	1,068	1,069
shale	537	588	shale	837	840	shale	1,069	1,073
sand	588	594	b.shale	840	843	coal	1,073	1,074

Comments:

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 FEB 26 2007  
 CONSERVATION DIVISION  
 WICHITA, KS

Well Log Olson, 4-1 pg2

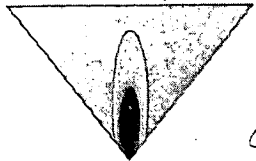
Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
shale	1,074	1,080						
sand	1,080	1,112						
coal	1,112	1,113						
sand/shale	1,113	1,117						
sand	1,117	1,189						
coal	1,189	1,191						
shale	1,191	1,218						
coal	1,218	1,219						
shale	1,219	1,225						
lime	1,215	1,317						

Comments: 404-444' added water, 761'-763' mulberry, 771'-778' pink, 818'-837' oswego, 1,237' odor

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 FEB 26 2007  
 CONSERVATION DIVISION  
 WICHITA, KS

# QUEST

Resource Corporation



211 W. 14TH STREET,  
CHANUTE, KS 66720  
620-431-9500

TICKET NUMBER 1820

FIELD TICKET REF #

FOREMAN Joe

614060

## TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-31-06	OLSON Ruby 4-1	4	28	16	WL

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe B	6:45	10:00		902427		3.25	<i>Joe B</i>
Tim A	6:45			903255		3.25	<i>Tim A</i>
Russell A	6:30			903206		3.5	<i>Russell A</i>
TROY W	6:45	↓		931120		3.25	<i>Troy W</i>
ON Location	NO DRIVER			903139	932452		

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1317 CASING SIZE & WEIGHT 4 1/2 10.5  
 CASING DEPTH 1303.14 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 0  
 DISPLACEMENT 20.78 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS:

Installed cement head Ran 2 sks gal + 12 bbl eye + 164 SKS of cement to get  
dyr to surface. Flush pump. Pump wiper plug to bottom of seal float structure.

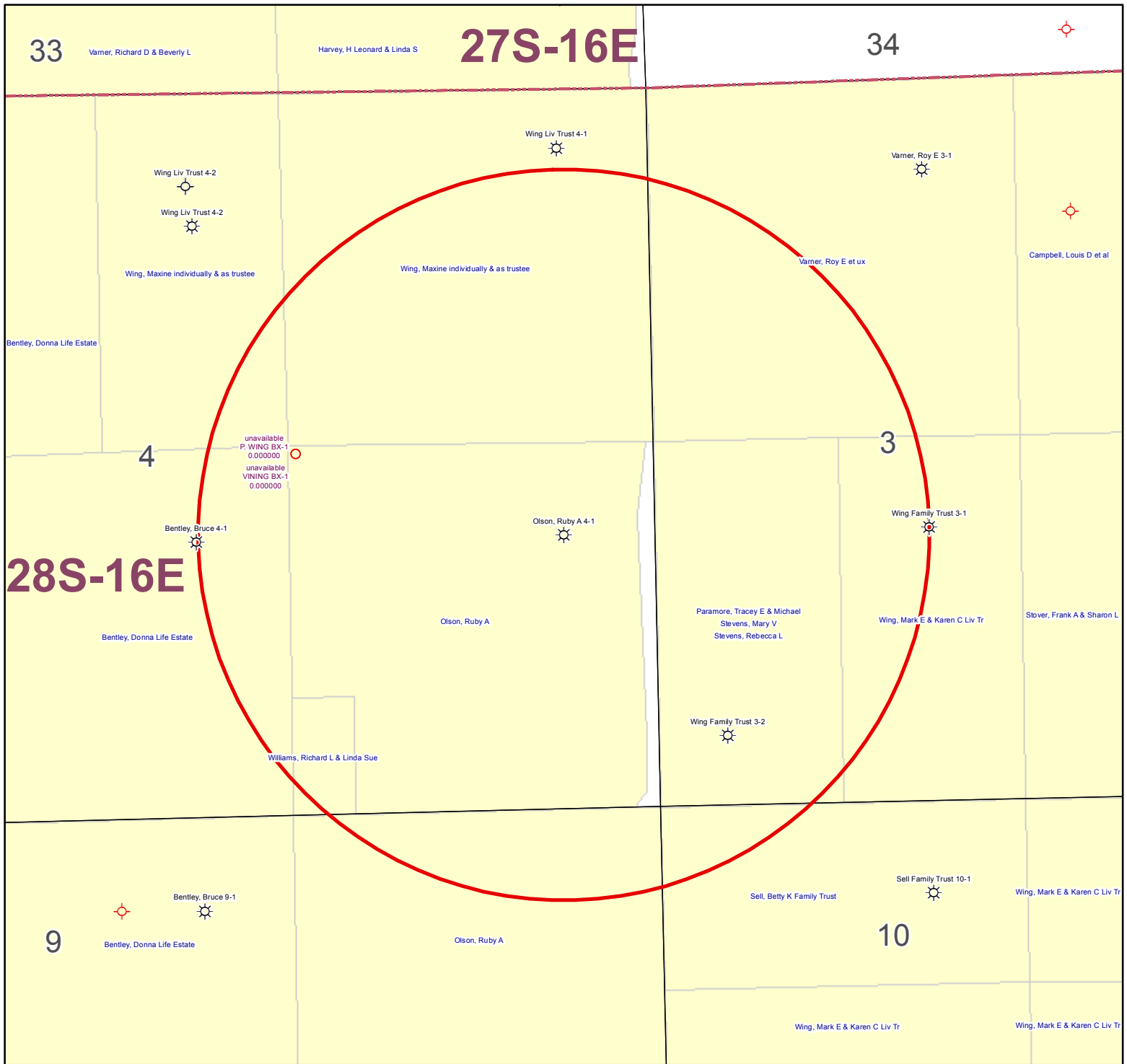
1 hr wait on water

1303.14	Ft 4 1/2 Casing
6	Centralizers
1	4 1/2 float shoe

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
902427	3.25 hr	Foreman Pickup	
903255	3.25 hr	Cement Pump Truck	
903206	3.5 hr	Bulk Truck	
1104	155 SK	Portland Cement	
1124	1	50/50-PGZ-Blend-Cement Bottle 3"	
1126	1	OWG-Blend-Cement 4 1/2 wiper Plug	
1110	16 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
1118	2 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	Sodium Silicate Calciluaride	
1123	7000 gal	City Water	
903139	3.25 hr	Transport Truck	
932452	3.25 hr	Transport Trailer	
931420	3.25 hr	80 Vac	

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 FEB 26 2007  
 CONSERVATION DIVISION  
 WICHITA, KS





KGS STATUS	
	DA/PA
	EOR
	GAS
	INJ/SWD
	OIL
	OIL/GAS
	OTHER

Olson, Ruby A 4-1  
 4-28S-16E  
 1" = 1,000'

**WELL** : Olson, Ruby A 4-1  
**FIELD** : Cherokee Basin  
**STATE** : Kansas  
**COUNTY** : Wilson

**SPUD DATE** : 10/25/2006  
**COMP. Date** : 10/31/2006  
**API**: 15-205-26982-00-00

**LOCATION**: 4-28S-16E (NE,SE)  
**ELEVATION**: 1022'

8 5/8" 20 lb @ 20' Cement w/5 sks

**Wellhead/Surface Equipment**

Tree Connection	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

**Tubular Detail**

Size	Weight	Grade	Cap(bbl/ft)	Date	Depth
8 5/8"	20 lb			2006	20'
4 1/2"	10.5 lb		.0159	2006	1303'
2 3/8"				2007	1295'

**Downhole Equipment Detail**


**Completion Data**

Original as GAS Well per ACO-1
900 gals 15% HCL
1,723 bbls water
28,800 lbs 20/40 sand

**Perforations**

Original Completion: 4 spf (3/8/2007)
838-842 Summit (17)
852-856 Mulky (17)
935-938 Croweburg (13)
972-974 Fleming (9)
1002-1003 Fleming (5)
1041-1043 Tebo (9)
1074-1076 Weir (9)
1219-1221 Riverton (9)

2 3/8" tubing @ 1295'

4.5" 10.5 lb @ 1303' Cement w/164 sks

PBTD @ 1303'

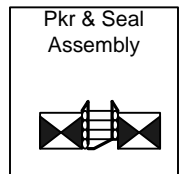
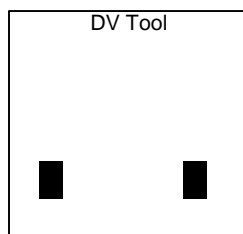
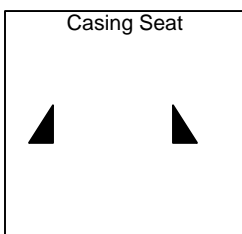
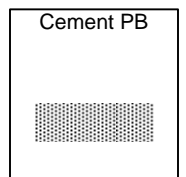
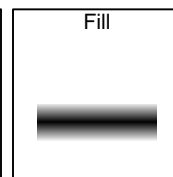
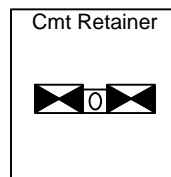
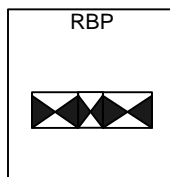
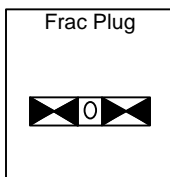
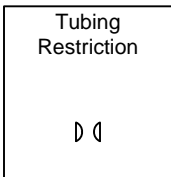
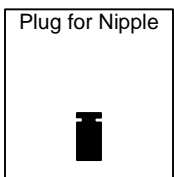
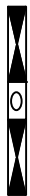
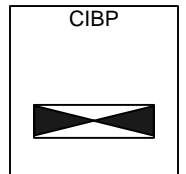
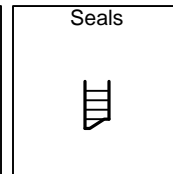
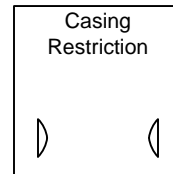
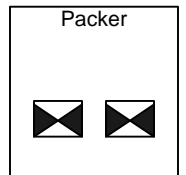
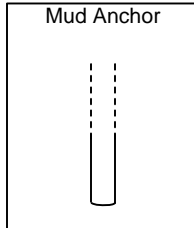
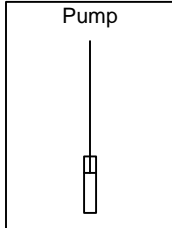
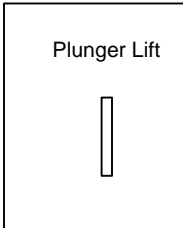
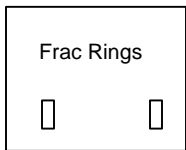
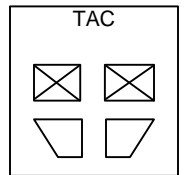
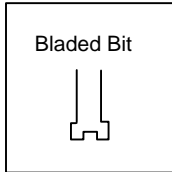
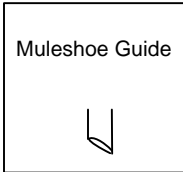
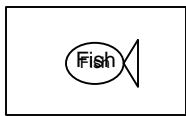
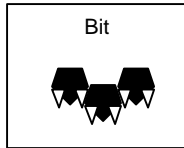
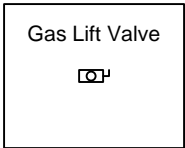
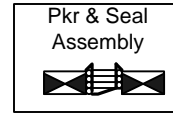
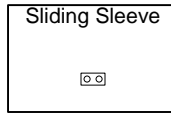
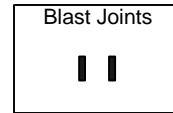
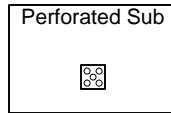
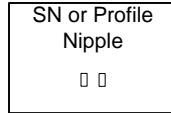
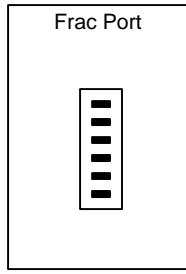
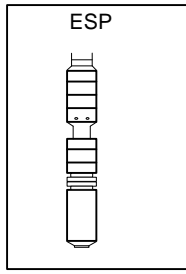
**Drilled Depth @ 1317'**

# POSTROCK



## LEGEND

PostRock®





**AFFIDAVIT**

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for 1 issues, that the first publication of said notice was

made as aforesaid on the 27th of

October A.D. 2012, with

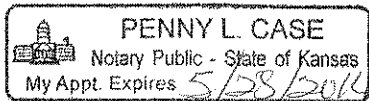
subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

*Mark Fletchall*

Subscribed and sworn to before me this

29th day of October, 2012



*Penny L. Case*
Notary Public Sedgwick County, Kansas

Printer's Fee : \$139.60

**LEGAL PUBLICATION**  
Published In The Wichita Eagle  
October 27, 2012 (3214839)  
BEFORE THE STATE CORPORATION COMMISSION  
OF THE STATE OF KANSAS  
**NOTICE OF FILING APPLICATION**  
RE: In the Matter of **Postrock Midcontinent Production, LLC** Application for Commingling of Production in the **Olson, Ruby A 4-1** located in **Wilson County, Kansas.**  
TO: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whomever concerned.  
You, and each of you, are hereby notified that **Postrock Midcontinent Production, LLC** has filed an application to commingle the **Summit, Mulky, Crowburg, Fleming, Tebo, Weir, Riverton and Bartlesville** producing formations at the **Olson, Ruby A 4-1**, located in the **NW SE NE SE, 54-T28S-R16E, Approximately 1977 FSL & 657 FEL, Wilson County, Kansas.**  
Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.  
All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly. All person and/or companies wishing to protest this application are required to file a written protest with the Conservation Division of the Kansas Oil and Gas Commission.  
Upon the receipt of any protest, the Commission will convene a hearing and protestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.  
**Postrock Midcontinent Production, LLC**  
210 Park Avenue, Suite 2750  
Oklahoma City, Oklahoma 73102  
(405) 660-7704

OLSON, RUBY A 4-1-APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

\_\_\_\_\_

\_\_\_\_\_

**Offset Operators, Unleased Mineral Owners and Landowners acreage**

(Attach additional sheets if necessary)

Name:

POSTROCK MIDCONTINENT PRODUCTION, LLC

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Legal Description of Leasehold:

POSTROCK HAS LEASED ALL ACREAGE IN THE 1/2  
MILE RADIUS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

*Chlsh*

Applicant or Duly Authorized Agent

Subscribed and sworn before me this 30<sup>th</sup> day of OCTOBER, 2012



*Jennifer R Beal*

Notary Public

My Commission Expires: July 20, 2014

\_\_\_\_\_

**Affidavit of Notice Served**

Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS ACO-4  
Well Name: OLSON, RUBY A 4-1 Legal Location: NWSENESE S4-T28S-R16E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 30<sup>th</sup> of OCTOBER, 2012, a true and correct copy of the application referenced above was delivered or mailed to the following parties:

*Note: A copy of this affidavit must be served as a part of the application.*

Name	Address (Attach additional sheets if necessary)
POSTROCK MIDCONTINENT PRODUCTION, LLC	OKLAHOMA TOWER, 210 PARK AVE, STE 2750, OKLAHOMA CITY, OK 73102

I further attest that notice of the filing of this application was published in the THE WILSON COUNTY CITIZEN, the official county publication of WILSON county. A copy of the affidavit of this publication is attached.

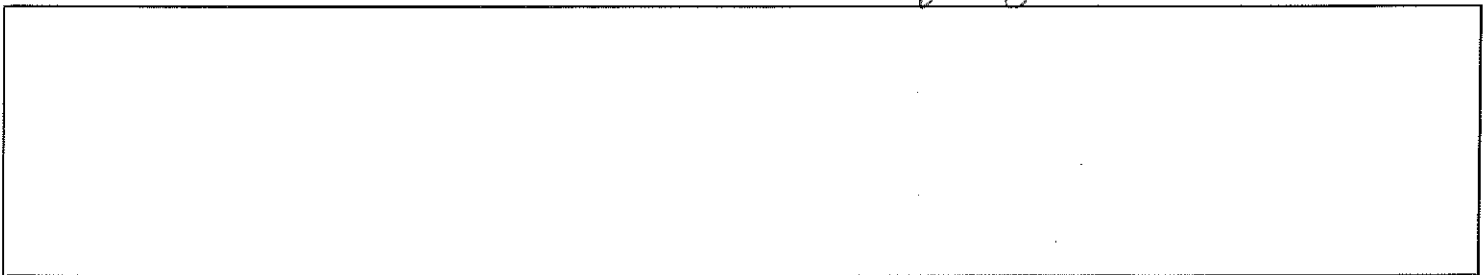
Signed this 30<sup>th</sup> day of OCTOBER, 2012

*[Signature]*  
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 30<sup>th</sup> day of OCTOBER, 2012



*Jennifer R. Beal*  
Notary Public  
My Commission Expires: July 20, 2016



PROOF OF PUBLICATION

STATE OF KANSAS  
Wilson County - SS

JOSEPH S. and RITA M. RELPH, of lawful age, being duly sworn upon oath that they are the Owners and Publishers of the WILSON COUNTY CITIZEN:

THAT said newspaper has been published at least weekly fifty (50) times a year and has been so published for at least five years prior to the first publication of the attached notice:

THAT said newspaper is a general circulation on a daily, or weekly, or monthly, or yearly basis in;

WILSON COUNTY, KANSAS and is NOT a trade, religious or fraternal publication and has been PRINTED and PUBLISHED in Wilson County, Kansas.

THE ATTACHED was published on the following dates in a regular issue of said newspaper:

1st publication was made on the 24th day of Oct., 2012

2nd publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

3rd publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

4th publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

5th publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

6th publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

TOTAL PUBLICATION FEE: \$ 37<sup>73</sup>

(Signed) Joseph S. Relph

Subscribed and sworn to before me, this 30th day of October, 2012

Rita M. Relph (Notary Public)

My commission expires Aug. 30, 2014

(Published in the Wilson County Citizen on Monday, October 29, 2012.)

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

RE: In the Matter of Postrock Midcontinent Production, LLC Application for Commingling of Production in the Olson, Ruby A 4-1 located in Wilson County, Kansas.

TO: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whomever concerned.

You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filed an application to commingle the Summit, Mulky, Croweburg, Fleming, Tebo, Weir, Riverton and Bartlesville producing formations at the Olson, Ruby A 4-1, located in the NW SE NE SE, S4-T28S-R16E, Approximately 1977 FSL & 657 FEL, Wilson County, Kansas.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly. All person and/or companies wishing to protest this application are required to file a written protest with the Conservation Division of the Kansas Oil and Gas Commission.

Upon the receipt of any protest, the Commission will convene a hearing and protestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.

Postrock Midcontinent Production, LLC  
210 Park Avenue, Suite 2750  
Oklahoma City, Oklahoma 73102  
(405) 660-7704  
73 1 cpy





Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 14, 2012

Clark Edwards  
PostRock Midcontinent Production LLC  
Oklahoma Tower  
210 Park Ave, Ste 2750  
Oklahoma City, OK 73102

RE: Approved Commingling CO111204  
Olson, Ruby A. 4-1, Sec. 4-T28S-R16E, Wilson County  
API No. 15-205-26982-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on November 8, 2012, has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. 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.

Based upon the depth of the Riverton formation perforations, total oil production shall not exceed 100 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

**File form ACO-1 upon re-completion of the well to commingle.**

Commingling ID number CO111204 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