



KANSAS CORPORATION COMMISSION 1084887  
OIL & GAS CONSERVATION DIVISION

Form ACO-4  
Form must be typed  
March 2009

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

Commingling ID # CO071224

OPERATOR: License # 33343  
Name: PostRock Midcontinent Production LLC  
Address 1: Oklahoma Tower  
Address 2: 210 Park Ave, Ste 2750  
City: OKLAHOMA CITY State: OK Zip: 73102 + \_\_\_\_\_  
Contact Person: CLARK EDWARDS  
Phone: (920) 432-4200

API No. 15 - 15-099-24241-00-00  
Spot Description: \_\_\_\_\_  
NE NE NW Sec. 1 Twp. 31 S. R. 19  East  West  
330 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section  
County: Lette  
Lease Name: BEACHNER BROTHERS Well #: 1-31-19-1

1. Name and upper and lower limit of each production interval to be commingled:
- |                             |                         |
|-----------------------------|-------------------------|
| Formation: <u>RIVERTON</u>  | (Perfs): <u>736-738</u> |
| Formation: <u>NEUTRAL</u>   | (Perfs): <u>681-683</u> |
| Formation: <u>TEBO</u>      | (Perfs): <u>515-517</u> |
| Formation: <u>FLEMING</u>   | (Perfs): <u>449-451</u> |
| Formation: <u>CROWEBURG</u> | (Perfs): <u>419-422</u> |

2. Estimated amount of fluid production to be commingled from each interval:
- |                             |                |                 |                |
|-----------------------------|----------------|-----------------|----------------|
| Formation: <u>RIVERTON</u>  | BOPD: <u>0</u> | MCFPD: <u>0</u> | BWPD: <u>5</u> |
| Formation: <u>NEUTRAL</u>   | BOPD: <u>0</u> | MCFPD: <u>0</u> | BWPD: <u>5</u> |
| Formation: <u>TEBO</u>      | BOPD: <u>0</u> | MCFPD: <u>0</u> | BWPD: <u>5</u> |
| Formation: <u>FLEMING</u>   | BOPD: <u>0</u> | MCFPD: <u>0</u> | BWPD: <u>5</u> |
| Formation: <u>CROWEBURG</u> | BOPD: <u>0</u> | MCFPD: <u>0</u> | BWPD: <u>5</u> |

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

<b>KCC Office Use Only</b>	
<input type="checkbox"/> Denied	<input checked="" type="checkbox"/> Approved
15-Day Periods Ends: <u>7/14/2012</u>	
Approved By: <u>Rick Hestermann</u>	Date: <u>07/16/2012</u>

*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.*



PostRock

### Wellbore Schematic

WELL: Beachner Bros 1-31-19-1

SSI: 625940

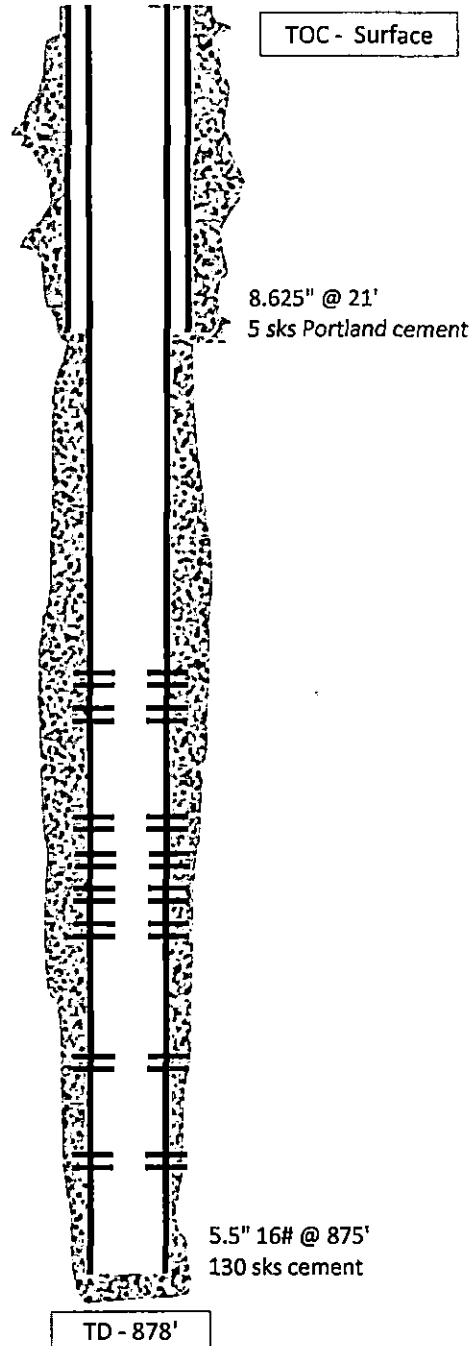
API: 15-099-24241

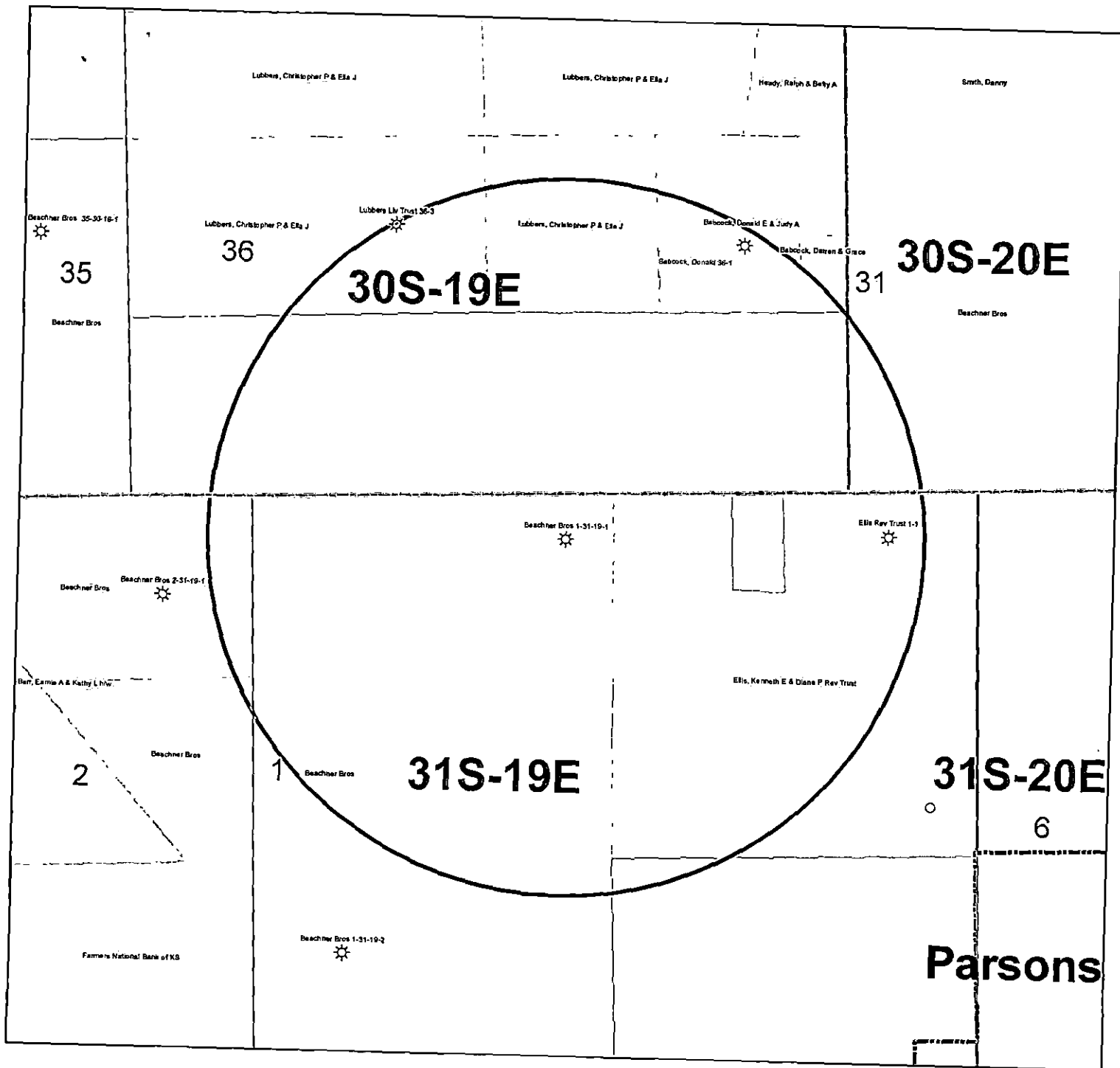
LOCATION: NE NW Sec. 1 31S-19E

COUNTY: Labette

STATE: Kansas

Casing	8.625" @ 21' 5.5" 16# J-55, 4.95" ID w/ 0.0238 bbl/ft capacity @ 875'
Perforations	Original Perfs: 5/6/08 - Riverton 736-738' (9) - Neutral 681-683' (9) - Tebo 515-517' (9) - Fleming 449-451' (9) - Croweburg 419-422' (13) - Bevier 401-403' - Mulky 302-306' (17) - Summit 286-290' (17)
Completions	Spud Date: 3/10/08  NV Completion: 5/6/08 - 500 gal 15% HCl - 10.2 BPM - 8,700# 20/40 - 681 bbls fluid  BCFT Completion: 5/6/12 - 400 gal 15% HCl - 12.0 BPM - 5,000# 20/40 - 575 bbls fluid  SM Completion: 5/6/12 - 400 gals 15% HCl - 14 BPM - 8,600# 20/40 - 690 bbls fluid





KGS STATUS	
◇	DA/PA
⊕	EOR
⊛	GAS
△	INJ/SWD
●	OIL
⊛	OIL/GAS
○	OTHER

Bechner Bros 1-31-19-1  
 1-31S-19E  
 1" = 1,000'

# Affidavit of Publication

STATE OF KANSAS, LABETTE COUNTY, ss:  
*Kim Root*, being first duly sworn,  
 deposes and says: That *she* is *Classified Manager*  
 of *PARSONS SUN*, a daily newspaper printed in the State  
 of Kansas, and published in and of general circulation in  
 Labette County, Kansas, with a general paid circulation  
 on a daily basis in Labette County, Kansas, and that said  
 newspaper is not a trade, religious or fraternal publication

Said newspaper is a daily published at least weekly 50  
 times a year: has been so published continuously and unin-  
 terruptedly in said county and state for a period of more  
 than five years prior to the first publication of said notice;  
 and has been admitted at the post office of Parsons, in said  
 county as second class matter.

That the attached notice is a true copy thereof and was  
 published in the regular and entire issue of said newspa-  
 per for 1 consecutive day, the first publication  
 thereof being made as aforesaid on the 19 day of  
June 2012, with subsequent publications being made  
 on the following dates:

\_\_\_\_\_, 2012 \_\_\_\_\_, 2012

\_\_\_\_\_, 2012 \_\_\_\_\_, 2012

*Kim Root*

Subscribed and sworn to and before me this 19  
 day of June, 2012

*[Signature]*  
 \_\_\_\_\_  
 Notary Public

My commission expires: January 9, 2015  
 Printer's Fee ..... \$ 69.07  
 Affidavit, Notary's Fee ..... \$ 3.00  
 Additional Copies ..... \$ \_\_\_\_\_  
 Total Publication Fees ..... \$ 71.07

**SHANNA L. GUIOT**  
 Notary Public - State of Kansas  
 My Appt. Expires 1-9-15

LEGAL

(Published in the Parsons Sun  
 June 19, 2012)

BEFORE THE STATE CORPORATION  
 COMMISSION  
 OF THE STATE OF KANSAS  
 NOTICE OF FILING APPLICATION  
 RE: In the Matter of Postrock Midconti-  
 nent Production, LLC Application for

Commingleing of Production in the  
 Beachner Bros 1-31-19-1 located in La-  
 bette County, Kansas  
 TO: All Oil & Gas Producers, Unleased  
 Mineral Interest Owners, Landowners,  
 and all persons whom ever concerned.  
 You, and each of you, are hereby noti-  
 fied that Postrock Midcontinent Pro-  
 duction, LLC has filed an application to com-  
 mingle the Riverton, Neutral, Tebo,  
 Fleming, Croweburg, Beaver, Muik, Sum-  
 mit, Cattleman and Bartlesville produc-  
 ing formations at the Beachner Bros  
 1-31-19-1, located in the NE NE NW  
 S1-T31S-R19E, Approximately 330 FNL  
 & 2310 FEL, Labette County, Kansas.  
 Any persons who object to or protest this  
 application shall be required to file their  
 objections or protest with the Conserva-  
 tion Division of the State Corpora-  
 tion 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 per-  
 son and/or companies wishing to protest  
 this application are required to file a writ-  
 ten protest with the Conservation Divi-  
 sion of the Kansas Oil and Gas Commis-  
 sion.  
 Upon the receipt of any protest, the  
 Commission will convene a hearing and  
 protestors 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

**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

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. Smith  
 Phone: (620) 431-9500  
 Contractor: Name: TXD/FOXFE  
 License: 33837  
 Wellsite Geologist: Ken Recco  
 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>3-10-08</u>	<u>3-15-08</u>	<u>3-17-08</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-099-24241-0000  
 County: Labette  
 \_\_\_\_\_ NE \_\_\_\_\_ NW Sec. 1 Twp. 31 S. R. 19  East  West  
330 feet from S  N (circle one) Line of Section  
2310 feet from E  W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE  NW SW  
 Lease Name: Beachner Bros Well #: 1-31-19-1  
 Field Name: Cherokee Basin CBM  
 Producing Formation: Multiple  
 Elevation: Ground: 883 Kelly Bushing: n/a  
 Total Depth: 878 Plug Back Total Depth: 875  
 Amount of Surface Pipe Set and Cemented at 21 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 875  
 feet depth to surface \_\_\_\_\_ w/ 130 \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
 (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. Smith  
 Title: New Well Development Coordinator Date: 6/24/08  
 Subscribed and sworn to before me this 24<sup>th</sup> day of June  
 2008.  
 Notary Public: Terra Klauman  
 Date Commission Expires: 8-4-2010

**A. TERRA KLAUMAN**  
 Notary Public - State of Kansas  
 My Appt. Expires 8-4-2010

**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Quest Cherokee, LLC Lease Name: Beachner Bros Well #: 1-31-19-1  
 Sec. 1 Twp. 31 S. R. 19  East  West County: Labette

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy)  List All E. Logs Run:  <b>Compensated Density Neutron Log</b> <b>Dual Induction Log</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> 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. / FL	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8"	22	21	"A"	5	
Production	7-7/8	5-1/2	14.5	875	"A"	130	

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
4	736-738/681-683	600gal 15% HCL w/ 60lbs 2% acid water, 600lbs water w/ 2% KCL, Blockade, 8700# 20/40 sand	736-738/681-683
4	515-517/449-451/419-422/401-403	400gal 15% HCL w/ 60lbs 2% acid water, 670lbs water w/ 2% KCL, Blockade, 5000# 20/40 sand	515-517/449-451 419-422/401-403
4	302-306/286-290	400gal 15% HCL w/ 60lbs 2% acid water, 650lbs water w/ 2% KCL, Blockade, 8000# 20/40 sand	302-306/286-290

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.		Producing Method				
N/A		<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	
n/a	n/a					

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 \_\_\_\_\_

	A	B	C	D	E	F	G	H	I	J	K
1	Produced Fluids #		1	2	3	4	5		Click here to run SSP  Goal Seek SSP  Click  Click  Click  Click		
2	Parameters	Units	Input	Input	Input	Input	Input				
3	Select the brines	Select fluid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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)	SISR (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	Str <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, measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)		
		0-CO <sub>2</sub> +Alk.							Calcite	NTMP	
	Choose one option to calculate SI?	1-pH+Alk.	0	0	0	0	0				
		2-CO <sub>2</sub> +pH									
35	Gas/day(thousand cf/day)	(Mcf/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)		
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 <sup>o</sup> 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) †	(N)									
51	OH <sup>-</sup> (Strong base) †	(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 Calculated	(mg/l) as HCO <sub>3</sub>									
58	ECations=	(equiv./l)									
59	EAnions=	(equiv./l)									
60	Calc TDS=	(mg/l)									
61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)			Value		
62	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value		
63	Have ScaleSoftPizer			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	bbl(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	bbl(42 US gal)	238		
70	Display act. coeffs?	0	1-Yes;0-No	9	Average	Liters	10,000	bbl(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					
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	Mixed Brine
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





**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 21st of

**June** 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

21st day of June, 2012

**PENNY L. CASE**  
Notary Public - State of Kansas  
My Appt. Expires 5/26/2014

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

Printer's Fee : \$134.80

**LEGAL PUBLICATION**  
PUBLISHED IN THE WICHITA EAGLE  
JUNE 21, 2012 (3191667)  
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  
Commencing of Production in the  
Beachner Bros 1-31-19-1 located in  
Labette County, Kansas.  
TO: All Oil & Gas Producers, Unleased Mineral  
Interest Owners, Landowners, and all  
persons whomsoever concerned.  
You, and each of you, are hereby notified  
that Postrock Midcontinent Production  
LLC has filed an application to commence  
the Riverton, Neutral, Tebo, Fleming,  
Crowhurst, Bevier, Mulk, Summit, Cattleman  
and Bartlesville producing formations at the  
Beachner Bros 1-31-19-1 located in the NE  
NE NW, S1-T31S-R19E, Approximately 330  
FNL & 2310 FEL, Labette 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

**Affidavit of Notice Served**

Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS - ACO-4

Well Name: BEACHNER BROS 1-31-19-1 Legal Location: NENENW S1-T31S-R19E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 29<sup>th</sup> of JUNE, 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.*

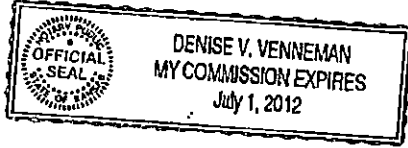
Name	Address (Attach additional sheets if necessary)
MARJORIE TROY TRUST AGREEMENT & JOHN J TROY TRUST AGREEMENT	117 COUNTRY CLUB LN, PARSON, KS 67354
LARRY MYERS	1477 27000 RD, PARSONS, KS 67357
BEACHNER BROS INC	PO BOX 128, ST PAUL, KS 66771

I further attest that notice of the filing of this application was published in the PARSONS SUN, the official county publication of LABETTE county. A copy of the affidavit of this publication is attached.

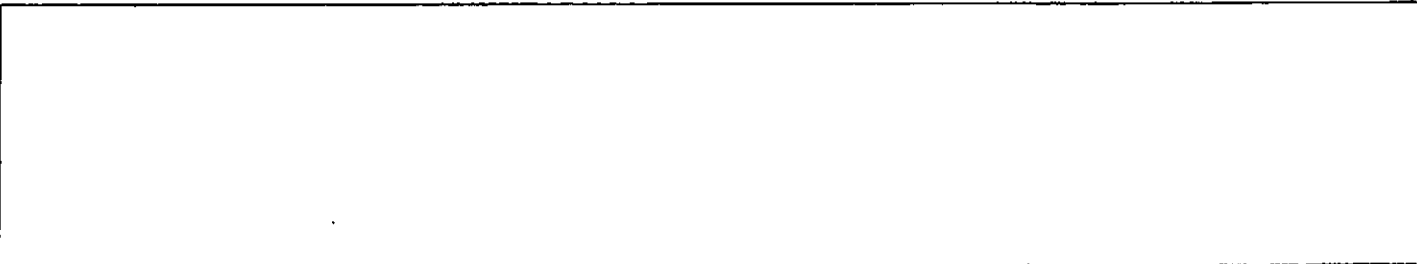
Signed this 29<sup>th</sup> day of JUNE, 2012

[Signature]  
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 29<sup>th</sup> day of JUNE, 2012



[Signature]  
Notary Public  
My Commission Expires: 7-1-12



BEACHNER BROS 1-31-19-1 - APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

Offset Operators, Unleased Mineral Owners and Landowners acreage  
(Attach additional sheets if necessary)

Name:

Legal Description of Leasehold:

MARJORIE TROY TRUST AGREEMENT, JOHN J TROY & <sup>jr</sup>

SE/4 TRACT S1-T31S-R19E

LARRY MYERS

TRACT IN NE/4 S1-T31S-R19E

BEACHNER BROS INC

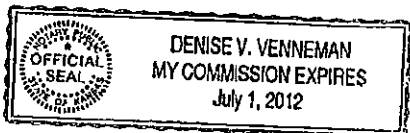
S2 S2 S36-T30S-R19E

Multiple horizontal lines for additional entries in the Name and Legal Description columns.

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

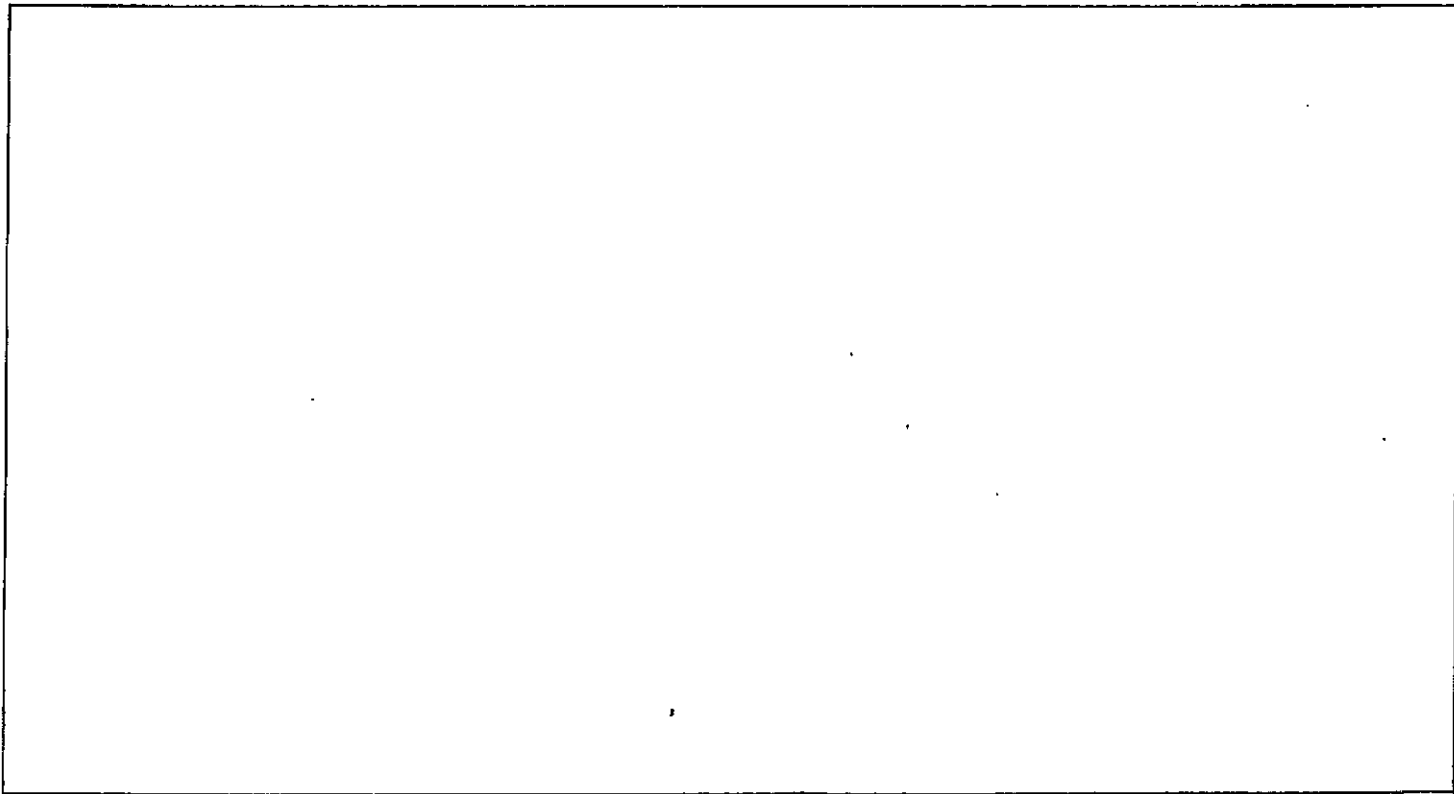
Justin D Beal  
Applicant or Duty Authorized Agent

Subscribed and sworn before me this 29<sup>th</sup> day of JUNE, 2012



Denise V Venneman  
Notary Public

My Commission Expires: 7-1-12



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

Sam Brownback, Governor

July 16, 2012

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

RE: Approved Commingling CO071224  
Beachner Brothers 1-31-19-1, Sec.1-T31S-R19E, Labette County  
API No. 15-099-24241-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on July 2, 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 CO071224 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