KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1097672

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 # CO111208

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: (620) 432-4200

API No. 15 - 15-133-27099-00-00
Spot Description:
NW - SE - SE - NW Sec. 17 Twp. 27 S. R. 19 ☑ East ☐ West
2059 Feet from ☑ North / ☐ South Line of Section
2028 Feet from ☐ East / ☑ West Line of Section
County: Neosho
Lease Name: BRAZLE, FRANK K. Well #: 17-1

☑ 1. Name and upper and lower limit of each production interval to be commingled:

Formation:	SUMMIT	(Perfs):	569-573
Formation:	MULKY	(Perfs):	580-584
Formation:	CROWEBURG	(Perfs):	683-684
Formation:	CROWEBURG	(Perfs):	685-687
Formation:	FLEMING	(Perfs):	717-719

☑ 2. Estimated amount of fluid production to be commingled from each interval:

Formation:	SUMMIT	BOPD:	0	MCFPD:	3	BWPD: 4.44
Formation:	MULKY	BOPD:	0	MCFPD:	3	BWPD: 4.44
Formation:	CROWEBURG	BOPD:	0	MCFPD:	3	BWPD: 4.44
Formation:	CROWEBURG	BOPD:	0	MCFPD:	3	BWPD: 4.44
Formation:	FLEMING	BOPD:	0	MCFPD:	3	BWPD: 4.44

☑ 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: 11/27/2012
Approved By: Rick Hestermann Date: 11/27/2012

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 wihin 15 days of publication of the notice of application.

Mail with all required attachments and files to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

	A	B	C	D	E	F	G	H	I	J	K
1	Produced Fluids #		1	2	3	4	5		Click here to run SSP	Click	
2	Parameters	Units	Input	Input	Input	Input	Input				
3	Select the brines	Select fluid	☑	☑	☑	☑	☑	Mixed brine:		Click	
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.	Goal Seek SSP	Click	
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		Click	
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines			
9	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.			
10	Na^+	(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^+ (if not known =0)	(mg/l)						0.00	Saturation Index values		
12	Mg^{2+}	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite		
13	Ca^{2+}	(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^{2+}	(mg/l)						0.00	Barite		
15	Ba^{2+}	(mg/l)						0.00			
16	Fe^{2+}	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite		
17	Zn^{2+}	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb^{2+}	(mg/l)						0.00	Gypsum		
19	Cl^-	(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_4^{2-}	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate		
21	F^-	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br^-	(mg/l)						0.00	Anhydrite		
23	SiO2	(mg/l) SiO2						0.00	-3.47	-3.36	0.12
24	HCO3 Alkalinity**	(mg/l as HCO3)	190.00	234.00	259.00	268.00	254.00	241.03	Celestite		
25	CO3 Alkalinity	(mg/l as CO3)									
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide		
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H3BO3						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_2 Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
32	H_2S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate		
33	Total H2Saq	(mgH2S/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)		
35	Choose one option to calculate SI?	0-CO2%+Alk, 1-pH+Alk, 2-CO2%+pH	0	0	0	0	0		Calcite	NTMP	
36	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)	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/^{0}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^+ (Strong acid) †	(N)									
51	OH^- (Strong base) †	(N)									
52	Quality Control Checks at STP:										
53	H_2S Gas	(%)									
54	Total H2Saq (STP)	(mgH2S/l)									
55	pH Calculated	(pH)									
56	PCO2 Calculated	(%)									
57	Alkalinity Caclulated	(mg/l) as HCO3									
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^3	100	ft^3	3,531	
65	If No, inhibitor # is:	4	#	4	DTPMP	m^3	100	bbl(42 US gal)	629	
66	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074	
67	1st inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194	
68	% of 1st inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193	
69	2nd inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bbl(42 US gal)	238	
70	Display act. coefs?	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

	Ratio					
Component (mg/L)	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_2 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

12/13/09

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

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: Michael
License: 33783
Wellsite Geologist: Ken Recoy

CONFIDENTIAL
DEC 13 2007
KCC

Designate Type of Completion:

✓ New Well ____ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW ____ 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. ____

8/18/07	8/19/07	8/22/07
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 133-27099-0000
County: Neosho
__ - __ - se - nw Sec. 17 Twp. 27 S. R. 19 ☑ East ☐ West
1980 feet from S / (N) (circle one) Line of Section
1980 feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Brazle, Frank K. Well #: 17-1
Field Name: Cherokee Basin CBM
Producing Formation: Multiple
Elevation: Ground: 995 Kelly Bushing: n/a
Total Depth: 1086 Plug Back Total Depth: 1077.18
Amount of Surface Pipe Set and Cemented at 22 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set ____ Feet
If Alternate II completion, cement circulated from 1077.18
feet depth to surface w/ 165 sx cmt.

Drilling Fluid Management Plan AH II NJ 3-16-09
(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: 12/14/07
Subscribed and sworn to before me this 14th day of December, 20 07.
Notary Public: Terra Klauman
Date Commission Expires: 8-4-2010

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

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CONSERVATION DIVISION
WICHITA, KS

Side Two

Operator Name: Quest Cherokee, LLC Lease Name: Brazle, Frank K. Well #: 17-1

Sec. 17 Twp. 27 S. R. 19 ☑ East ☐ West County: Neosho

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 (Attach Additional Sheets) ☐ Yes ☑ No

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run (Submit Copy) ☐ Yes ☐ No

List All E. Logs Run:

Compensated Density Neutron Log
Dual Induction Log
Gamma Ray Neutron Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

See attached

CASING RECORD ☐ New ☐ 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"	22	22	"A"	5	
Production	6-3/4	4-1/2	10.5	1077.18	"A"	165	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

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	984-987	400gal 15%HCLw/ 46 bbls 2%kcl water, 445bbls water w/ 2% KCL, Biocide, 3000# 20/40 sand	984-987
4	817-819/803-805/771-773/717-719/683-684/685-687	500gal 15%HCLw/ 45 bbls 2%kcl water, 745bbls water w/ 2% KCL, Biocide, 8800# 20/40 sand	817-819/803-805
		771-773/717-719	683-684/685-687
4	580-584/569-573	300gal 15%HCLw/ 49 bbls 2%kcl water, 645bbls water w/ 2% KCL, Biocide, 5600# 20/40 sand	580-584/569-573

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	1009	n/a	☐ Yes ☑ No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method				
9/17/07	☐ Flowing	☑ Pumping	☐ Gas Lift	☐ Other (Explain)	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	n/a	9.1mcf	89.2bbls		

Disposition of Gas METHOD OF COMPLETION Production Interval

☐ Vented ☑ Sold ☐ Used on Lease (If vented, Submit ACO-18.)

☐ Open Hole ☑ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

QUEST
Resource Corporation

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

SSE 623450
CONFIDENTIAL
DEC 13 2007

TICKET NUMBER 2171
FIELD TICKET REF # _____
FOREMAN Dwayne

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-22-07	Brazle FRank 17-1	17	27	19	NO

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Dwayne	7:00	10:45	NO	901640		3.75 hr	
Maverick	7:00	10:45		903197		3.75 hr	
Tim A.	6:45	10:45		903140	TJJ	4 hr	
Kevin	7:00	10:45		931300	932895	3.75 hr	
Gary C.	7:00	10:45		931500		3.75 hr	
Tyler	7:00	10:45				3.75 hr	

JOB TYPE Long String HOLE SIZE 6 3/4 HOLE DEPTH 1085 CASING SIZE & WEIGHT 4 1/2 10.5#
CASING DEPTH 1077.18 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
DISPLACEMENT 17.19 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS:

Wash to TD Then Pump 2 Sacks Prem Gel and Sweep to Surface Then Pump 1 Sack Prem gel Followed By 12 Bbl Dye Marker and Start Cement. Pump 165 Sacks Cement to get Dye Marker Back. Flush Pump Then pump wiper Plug to Bottom and Set Float Shoe

	1077.18	4 1/2 Casing
	5	4 1/2 centralizers
	1	4 1/2 Float Shoe

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
901640	3.75 hr	Foreman Pickup	
903197	3.75 hr	Cement Pump Truck	
903600	3.75 hr	Bulk Truck	
1104	155 Sack	Portland Cement	
1124	2	~~50/50 POZ Blend Cement~~ FRac BaFFles 3" 3 1/2	
1126	1	~~OWC Blend Cement~~ 4 1/2 wiper Plug	
1110	16 Sack	Gilsonite	
1107	1 Sack	Flo-Seal	
1118	Sack	Premium Gel	
1215A	1 Gal	KCL	
1111B	3	~~Sodium Silicate~~ Cal Cloride	
1123	7000 Gal	City Water	
903140	3.75 hr	Transport Truck	
T33	3.75 hr	Transport Trailer	
931500	3.75 hr	80 Vac	

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WICHITA, KS

Ravin 4513

Michael Drilling, LLC
P.O. Box 402
Iola, KS 66749
620-365-2755

CONFIDENTIAL
DEC 13 2007
KCC

081907

Company: Quest Cherokee LLC
Address: 9520 North May Ave, Suite 300
Oklahoma City, Oklahoma 73120
Ordered By: Donnie Meyers

Date: 08/19/07
Lease: Brazie, Frank K.
County: Neosho
Well#: 17-1
API#: 15-133-27099-00-00

Drilling Log

FEET	DESCRIPTION
0-22	Overburden
22-40	Sandy Shale
40-70	Lime and Shale
70-115	Lime
115-123	Sandy Shale
123-130	Lime
130-140	Sand and Sandy Shale
140-152	Lime
152-158	Shale
158-198	Lime
198-352	Shale
352-360	Lime
360-382	Sandy Shale
382-395	Lime
395-455	Shale
455-457	Coal
457-505	Lime
505-508	Black Shale
508-541	Shale
541-542	Coal
542-565	Lime
557	Gas Test 44# at 3/8" Choke
565-572	Black Shale
572-579	Lime
579-585	Black Shale
585	Gas Test 44# at 3/8" Choke
585-587	Coal
587-612	Sandy Shale
612-658	Sand
658-659	Lime
659-660	Coal
660-678	Shale
678-680	Lime
680-682	Coal
682-700	Shale
700-702	Coal
702-730	Shale
730-731	Lime
731-732	Coal
732-742	Shale
742-743	Coal
743-751	Sand
751-762	Sandy Shale
762-770	Shale
770-771	Coal
771-793	Sand
793-800	Shale
800-801	Coal

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081907

Michael Drilling, LLC
P.O. Box 402
Iola, KS 66749
620-365-2755

CONFIDENTIAL
DEC 13 2007
KCC

Company: Quest Cherokee LLC
Address: 9520 North May Ave, Suite 300
Oklahoma City, Oklahoma 73120
Ordered By: Donnie Meyers

Date: 08/19/07
Lease: Brazie, Frank K.
County: Neosho
Well#: 17-1
API#: 15-133-27099-00-00

Drilling Log

FEET	DESCRIPTION
801-818	Sand
818-819	Coal
819-852	Shale
852-900	Sand
900-902	Coal
902-916	Shale
916-917	Coal
917-940	Sand
940-941	Coal
941-958	Sand
958-979	Shale
979-981	Coal
981-984	Shale
982	Gas Test 30# at 3/4" Choke
984-1085	Mississippi Lime
1009	Gas Test 30# at 3/4" Choke
1085	Gas Test 30# at 3/4" Choke
1085	TD
	Surface 22'

FEET	DESCRIPTION

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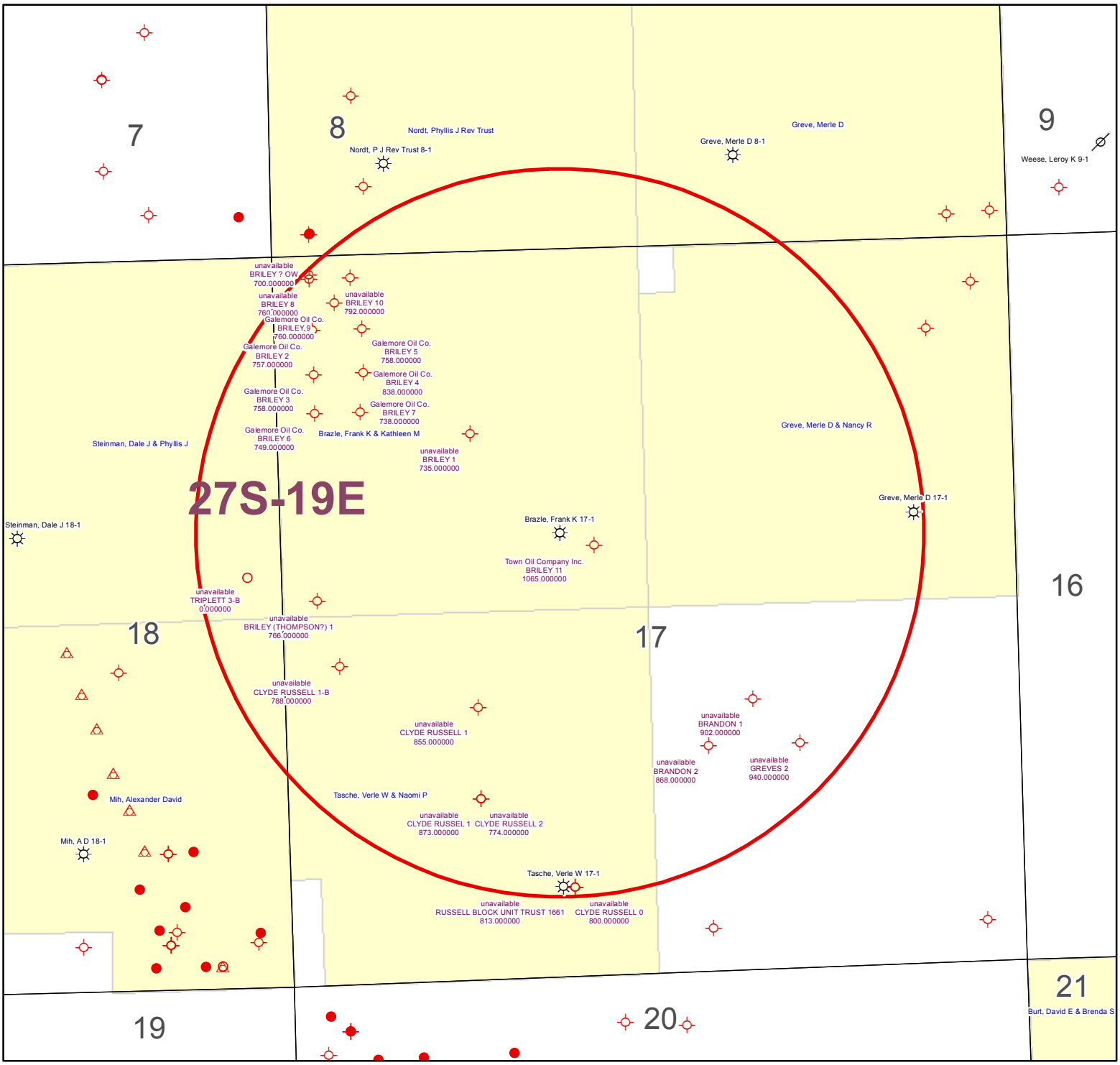
CONSERVATION DIVISION
WICHITA, KS



KGS STATUS

- DA/PA
- EOR
- GAS
- INJ/SWD
- OIL
- OIL/GAS
- OTHER

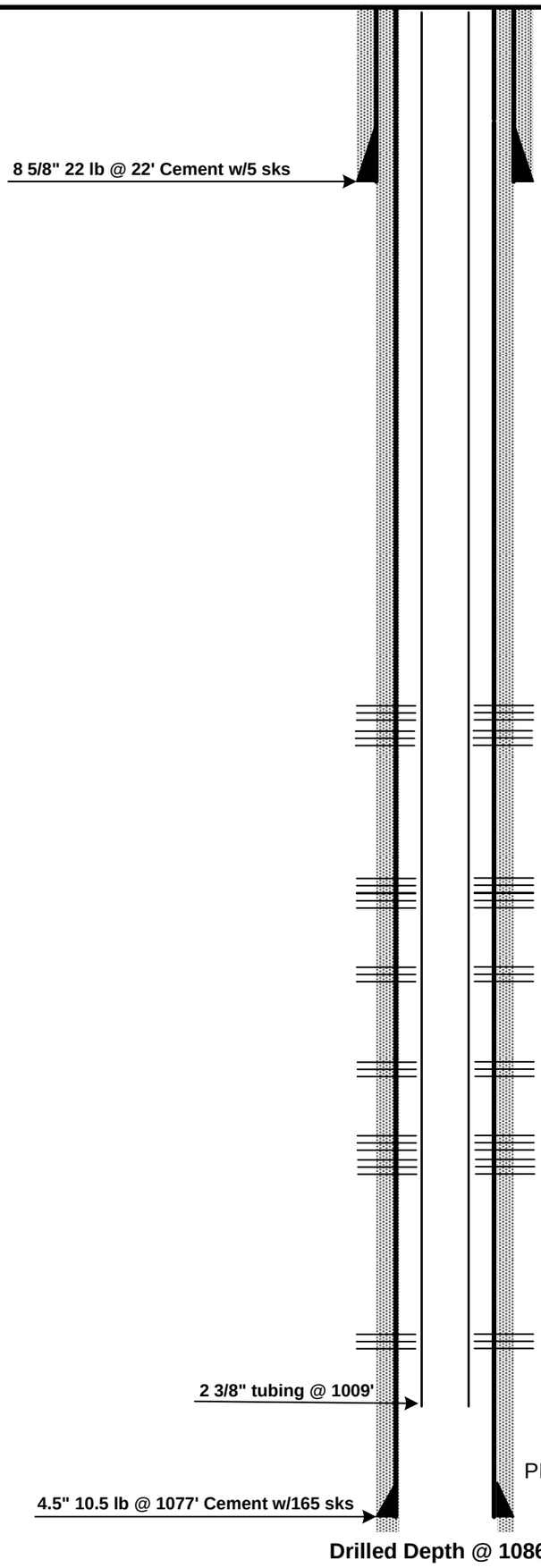
Brazle, Frank K 17-1
17-27S-19E
1" = 1,000'

POSTROCK	PostRock	Current Completion

WELL : Brazle, Frank K 17-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Neosho

SPUD DATE : 8/18/2007
COMP. Date : 8/22/2007
API: 15-133-27099-00-00

LOCATION: 17-27S-19E (SE,NW)
ELEVATION: 995'



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"	22 lb			2007	22'
4 ½"	10.5 lb		.0159	2007	1077'
2 3/8"				2007	1009'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1

1,200 gals 15% HCL
1,835 bbls water
17,400 lbs 20/40 sand

Perforations

Original Completion: 4 spf
569-573 Summit (17)
580-584 Mulky (17)
683-684 Croweburg (4)
685-687 Croweburg (9)
717-719 Fleming (9)
771-773 Tebo (9)
803-805 Weir (9)
817-819 Weir (9)
984-987 Riverton (13)

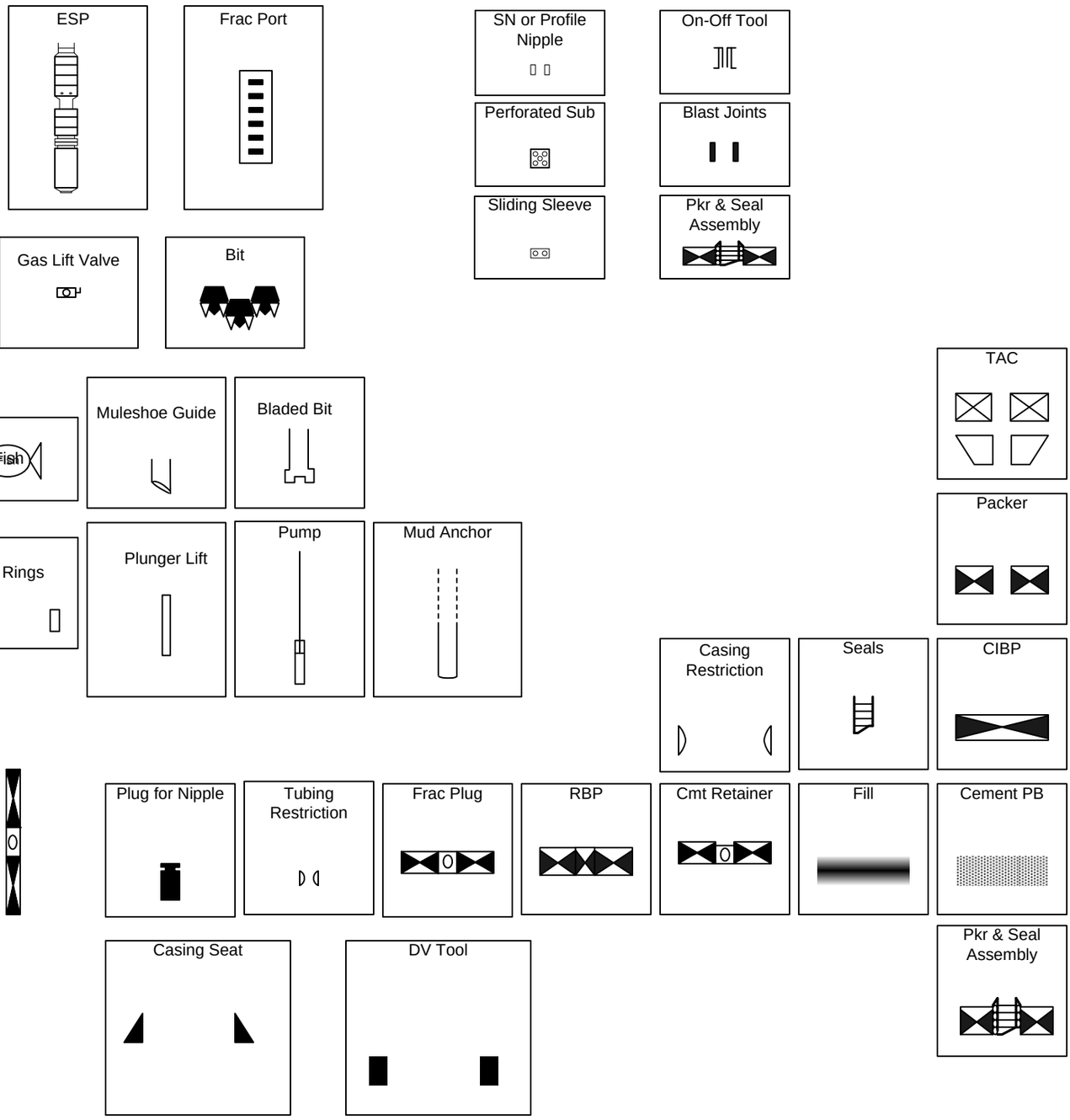
PREPARED BY: POSTROCK **DATE:** OCT, 2012

APPROVED BY: _____ **DATE:** _____

POSTROCK

PostRock

LEGEND



BRAZLE, FRANK K 17-1

1 NAME & UPPER & LOWER LIMIT OF EACH PRODUCTION INTERVAL TO BE COMMINGLED

FORMATION:	TEBO	(PERFS):	771	-	773
FORMATION:	WEIR	(PERFS):	803	-	805
FORMATION:	WEIR	(PERFS):	817	-	819
FORMATION:	RIVERTON	(PERFS):	984	-	987
FORMATION:	BARTLESVILLE	(PERFS):	894	-	900
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	

2 ESTIMATED AMOUNT OF FLUID PRODUCTION TO BE COMMINGLED FROM EACH INTERVAL

FORMATION:	TEBO	BOPD:	0	MCFPD:	3 0	BWPD:	4.44
FORMATION:	WEIR	BOPD:	0	MCFPD:	3	BWPD:	4.44
FORMATION:	WEIR	BOPD:	0	MCFPD:	3	BWPD:	4.44
FORMATION:	RIVERTON	BOPD:	0	MCFPD:	3	BWPD:	4.44
FORMATION:	BARTLESVILLE	BOPD:	3	MCFPD:	0	BWPD:	20
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	

Affidavit of Notice Served

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

Well Name: BRAZLE, FRANK K 17-1 Legal Location: NWSESENW S17-T27S-19E

The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day 12th of NOVEMBER,

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)*
GALEMORE OIL CO	305 E RUTLIDGE, YATES CENTER, KS 66783
TOWN OIL COMPANY INC	16205 W 287TH ST, PAOLA, KS 66071
SEE ATTACHED	

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

Signed this 12th day of NOVEMBER, 2012

Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 12th day of NOVEMBER, 2012

JENNIFER R. BEAL
NOTARY PUBLIC
STATE OF KANSAS
MY COMMISSION EXPIRES
7-20-2016

Notary Public Jennifer R. Beal

My Commission Expires: July 20, 2016

BRAZLE, FRANK K 17-1

17-27S-19E

tract in NWNE	Yvette Almanza PO Box 299 Chanute, KS 66720
SE4	Jack A. Suit 612 S Sunset Ave Chanute, KS 66720

BRAZLE, FRANK K 17-1-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:
SEE ATTACHED	

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

Jeff Marrs

Applicant or Duly Authorized Agent

Subscribed and sworn before me this 12th day of NOVEMBER, 2012

Jennifer R Beal

Notary Public

My Commission Expires: July 20, 2016

JENNIFER R. BEAL
OFFICIAL SEAL
MY COMMISSION EXPIRES
7-20-2016

BRAZLE, FRANK K 17-1

17-27S-19E

tract in NWNE Yvette Almanza
PO Box 299
Chanute, KS 66720

SE4 Jack A. Suit
612 S Sunset Ave
Chanute, KS 66720

BRAZLE, FRANK K 17-1

LEGAL LOCATION	SPOT	CURR_OPERA
S17-T27S-R19E	SW NW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	NW SW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	NE SW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	SE NW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	SW SW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	SE SW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	C NW NW NW	**Galemore Oil Co.**
S17-T27S-R19E	SE SE NW	**Town Oil Company Inc.**

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 **9th** of

November 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

9th day of November, 2012

PENNY L. CASE
Notary Public - State of Kansas
My Appt. Expires 5/28/2014

Penny L Case

Notary Public Sedgwick County, Kansas

Printer's Fee : **$132.40**

LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE
NOVEMBER 9, 2012 (3216893)
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 Brazle, Frank K 17-1 located in Neosho 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 Barlesville producing formations at the Brazle, Frank K 17-1, located in the NW SE SE NW, S17-T27S-R19E, Approximately 2059 FNL & 2028 FWL, Neosho 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

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 8th day of November, 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: $ 37.73

(Signed) Joseph S Relph

Subscribed and sworn to before me, this 9th day of November, 2012

Rita M. Relph (Notary Public)

My commission expires Aug. 30, 2014

(Published in the Wilson County Citizen on Thursday, November 8, 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 Sell Family Trust 10-2 located in Wilson County, Kansas.

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

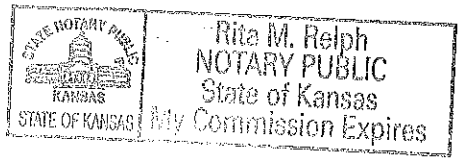
You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filed an application to commingle the Bevier, Croweburg, Fleming, Tebo, Weir, Rowe and Bartlesville producing formations at the Sell Family Trust 10-2, located in the NW SE NE SW, S10-T28S-R16E, Approximately 1975 FNL & 2096 FWL, 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
76 1 cpy.



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

Kansas
Corporation Commission

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

November 27, 2012

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

RE: Approved Commingling CO111208
Brazle, Frank K. 17-1 Sec. 17-T27S-R19E, Neosho County
API No. 15-133-27099-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on November 19, 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 CO111208 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