KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1093860

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 # CO101208

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 - 15-205-26922-00-00
Spot Description:
SE - NW - NE - NE Sec. 10 Twp. 28 S. R. 16 ☑ East ☐ West
658 Feet from ☑ North / ☐ South Line of Section
693 Feet from ☑ East / ☐ West Line of Section
County: Wilson
Lease Name: WING, MARK E. Well #: 10-1

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

Formation:	SUMMIT	(Perfs):	846-850
Formation:	MULKY	(Perfs):	859-864
Formation:	BEVIER	(Perfs):	923-925
Formation:	CROWEBURG	(Perfs):	940-943
Formation:	FLEMING	(Perfs):	976-978

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

Formation:	SUMMIT	BOPD:	0	MCFPD:	2.38	BWPD: 5
Formation:	MULKY	BOPD:	0	MCFPD:	2.38	BWPD: 5
Formation:	BEVIER	BOPD:	0	MCFPD:	2.38	BWPD: 5
Formation:	CROWEBURG	BOPD:	0	MCFPD:	2.38	BWPD: 5
Formation:	FLEMING	BOPD:	0	MCFPD:	2.38	BWPD: 5

☑ 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: 10/30/2012
Approved By: Rick Hestermann Date: 10/30/2012

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

KANSAS CORPORATION COMMISSION ORIGINAL
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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 ___ 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. ___

9/28/06	10/1/06	10/2/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26922-00-00
County: Wilson
__-__-ne-ne Sec. 10 Twp. 28 S. R. 16 ☑ East ☐ West
660 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. Kna → Wing, MarkE 4-5-07 Well #: 10-1
Field Name: Cherokee Basin CBM
Producing Formation: not yet complete
Elevation: Ground: 1048 Kelly Bushing: n/a
Total Depth: 1356 Plug Back Total Depth: 1347.32
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 1347.32
feet depth to surface w/ 171 sx cmt.

Drilling Fluid Management Plan Alt II NH 6-18-08
(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: 1/23/07
Subscribed and sworn to before me this 23rd day of January,
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

N Letter of Confidentiality Received
If Denied, Yes ☐ Date: ___
___ Wireline Log Received
___ Geologist Report Received
___ UIC Distribution

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 24 2007
CONSERVATION DIVISION
WICHITA, KS

Side Two

Operator Name: Quest Cherokee, LLC Lease Name: Olson, Ruby A. Well #: 10-1

Sec. 10 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 ☐ 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"	20	20	"A"	5	
Production	6-3/4	4-1/2	10.5	1347.32	"A"	171	

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
	waiting on pipeline		

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumerd Production, SWD or Enhr. Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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)*

TXD SERVICES LP DRILLERS LOG TXD SERVICES LP

RIG #	101	S. 10	T. 28	R. 16	
API #	205-26922-0000	County:	Wilson		
	Elev: 1,048'	Location	Kansas		

Operator:	Quest Cherokee, LLC
Address:	9520 N. May Ave, Suite 300
	Oklahoma City, OK. 73120
Well #	10-1 Lease Name Olson, Ruby A.
Footage Location	660 ft from the (N) Line
	660 ft from the (E) Line
Drilling Contractor:	TXD SERVICES LP
Spud Date;	9/28/06 Geologist:
Date Completed:	10/01/06 Total Depth: 1,360'

Gas Tests		
492'	0	
596'	0	
690'	0	
754'	0	
785'	0	
880'	0	
1,287'	1 - 1/4"	1.68
1,360'	3 - 1/4"	2.92

Casing Record	Surface	Production
Size Hole	12-1/4"	6-3/4"
Size Casing	8-5/8"	
Weight	24#	
Setting Depth	20'	
Type Cement	portland	
Sacks	5	

Rig Time:

Well Log

Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
top soil	0	33	shale	807	823			
shale	33	189	coal	823	830			
lime	189	210	lime	830	860			
shale	210	314	sand	860	870			
lime	314	370	coal	870	875			
shale	370	389	shale	875	954			
lime	389	460	coal	954	960			
shale	460	492	shale	960	982			
coal	492	496	coal	982	984			
lime	496	586	shale	984	1,012			
shale	586	618	coal	1,012	1,015			
lime	618	624	shale	1,015	1,064			
sand/shale	624	639	lime	1,064	1,071			
lime	639	670	sand/ahale	1,071	1,165			
shale	670	680	sand	1,165	1,201			
coal	680	682	shale	1,201	1,232			
shale	682	728	coal	1,232	1,234			
coal	726	730	shale	1,234	1,238			
shale	730	780	coal	1,238	1,240			
lime	780	781	shale	1,240	1,250			
coal	781	782	lime	1,250	1,360			
shale	782	793						
coal	793	807						

Comments:

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 2 4 2007
CONSERVATION DIVISION
WICHITA, KS

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

TICKET NUMBER 1841
FIELD TICKET REF #
FOREMAN Joe

616620

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-2-06	OlSON Ruby 10-1	10	28	16	WL

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe. B	9:30	11:30		903427		2	Joe Blanchard
Wes. T	↓	↓		903197		↓	Wes Tram
MARK. B				903230			[signature]
DAVID. C				903142	932452		[signature]
Craig. G				931500			Craig
Russell. A				903206			[signature]

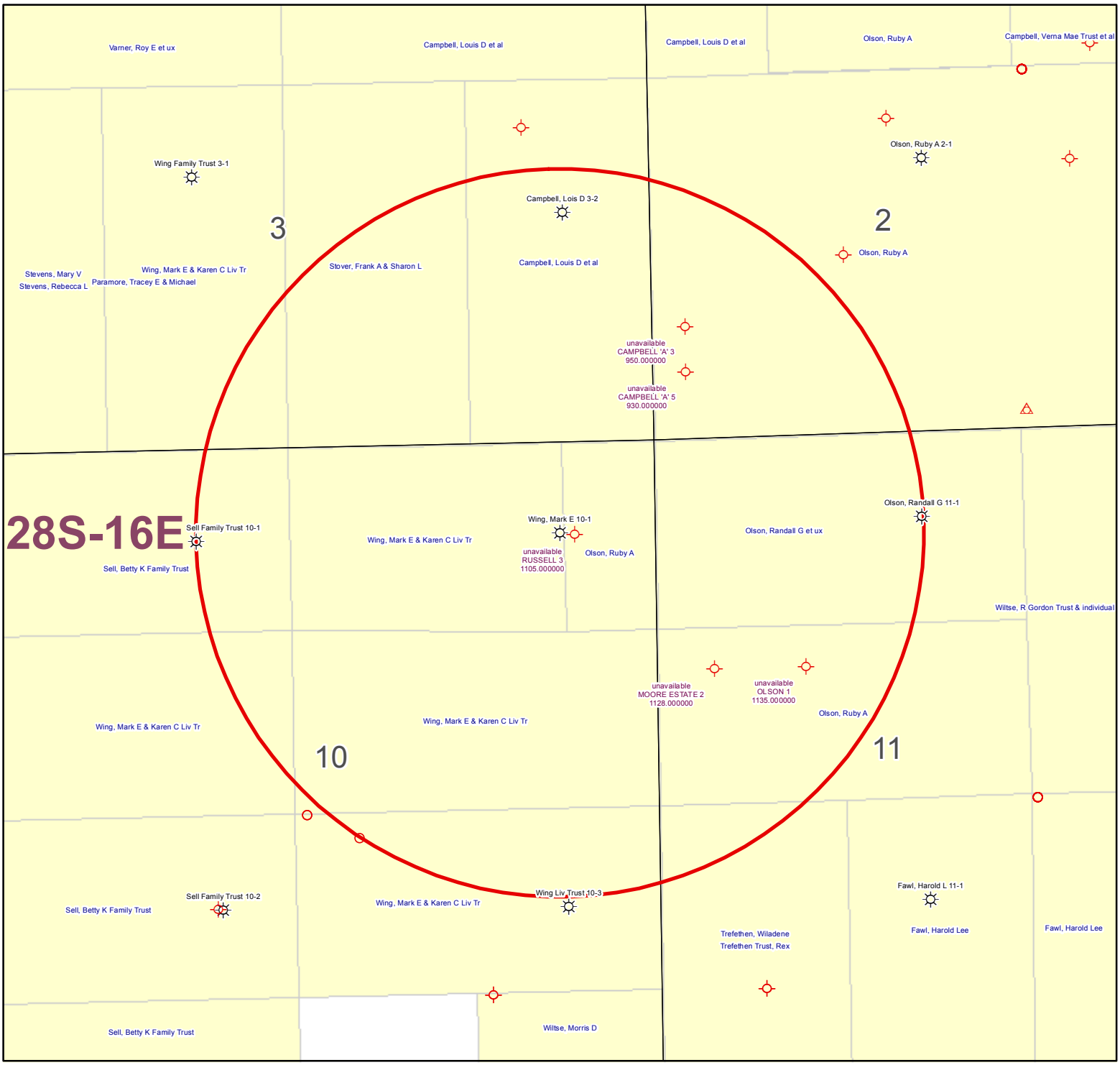
JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1356 CASING SIZE & WEIGHT 4 1/2 10.5
CASING DEPTH 1347.32 DRILL PIPE ______ TUBING ______ OTHER ______
SLURRY WEIGHT 14.5 SLURRY VOL ______ WATER gal/sk ______ CEMENT LEFT in CASING 0
DISPLACEMENT 21.48 DISPLACEMENT PSI ______ MIX PSI ______ RATE 4 bpm

REMARKS:
Installed Cement head RAN 4 SKS gel & 14 bbl dye & 171 SKS of cement To get dye to surface. Flush pump. Pump wiper plug to bottom & Set Float Shoe

	1347.32	Ft 4 1/2 Casing	
	7	Centralizers	
	1	4 1/2 Floatshoe	

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903427	2 hr	Foreman Pickup	
903230	2 hr	Cement Pump Truck	
90197	2 hr	Bulk Truck	
1104	160 SK	Portland Cement	
1124	1	~~50/50 POZ Blend Cement~~ Baffle 3"	
1126	1	~~OWC - Blend Cement~~ 4 1/2 wiper plug	
1110	17 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
1118	4 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	~~Sodium Silicate~~ Calchloride	
1123	7000 gal	City Water	
903142	2 hr	Transport Truck	
932452	2 hr	Transport Trailer	
931500	2 hr	80 Vac	

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 2 4 2007
CONSERVATION DIVISION
WICHITA, KS



KGS STATUS

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

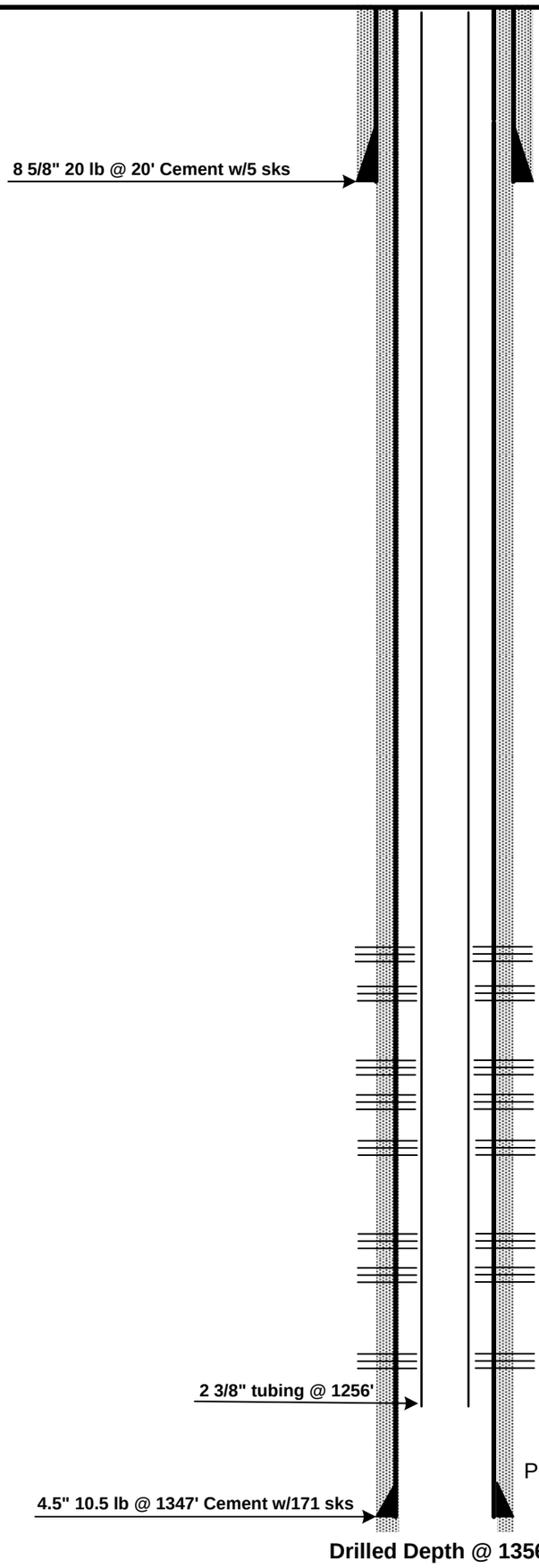
Wing, Mark E 10-1
10-28S-16E
1" = 1,000'

POSTROCK	PostRock	Current Completion

WELL : Wing, Mark 10-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Wilson

SPUD DATE : 9/28/2006
COMP. Date : 10/2/2006
API: 15-205-26922-00-00

LOCATION: 10-28S-16E (NE,NE)
ELEVATION: 1048'



Drilled Depth @ 1356'

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 ½"	10.5 lb		.0159	2006	1347'
2 3/8"				2007	1256'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1

950 gals 15% HCL
1,815 bbls water
33,000 lbs 20/40 sand

Perforations

Original Completion: 4 spf
846-850 Summit (17)
859-864 Mulky (21)
923-925 Bevier (9)
940-943 Croweburg (13)
976-978 Fleming (9)
1070-1072 Tebo (9)
1089-1091 Weir (9)
1232-1234 Riverton (9)

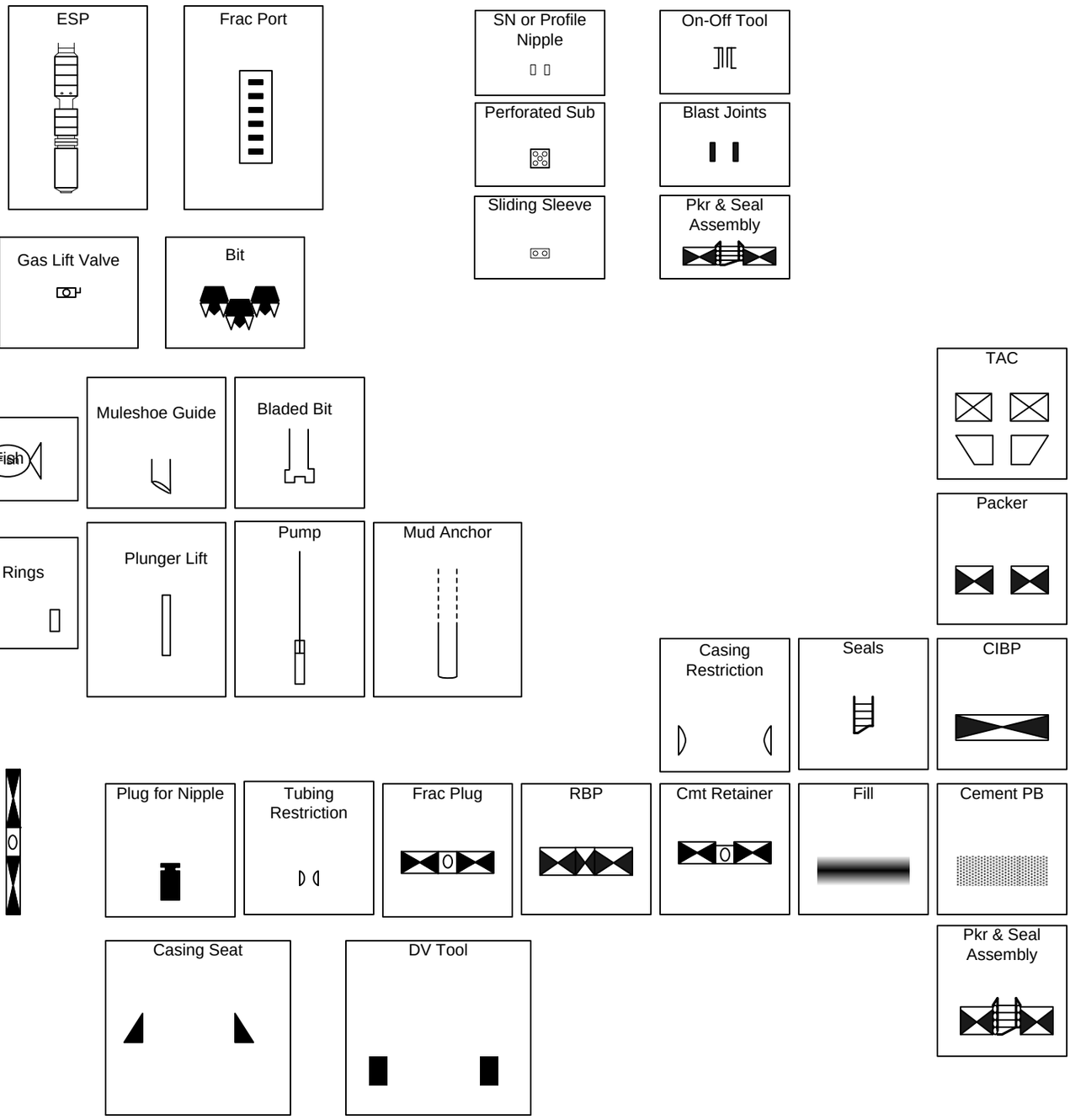
PREPARED BY: POSTROCK **DATE:** Sept, 2012

APPROVED BY: _____ **DATE:** _____

POSTROCK

PostRock

LEGEND



WING, MARK 10-1

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

FORMATION:	TEBO	(PERFS):	1070	-	1072
FORMATION:	WEIR	(PERFS):	1089	-	1091
FORMATION:	RIVERTON	(PERFS):	1232	-	1234
FORMATION:	BARTLESVILLE	(PERFS):	1102	-	1108
FORMATION:	BARTLESVILLE	(PERFS):	1115	-	1119
FORMATION:	BARTLESVILLE	(PERFS):	1138	-	1144
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:	2.38	BWPD:	0
FORMATION:	WEIR	BOPD:	0	MCFPD:	2.38	BWPD:	0
FORMATION:	RIVERTON	BOPD:	0	MCFPD:	2.38	BWPD:	0
FORMATION:	BARTLESVILLE	BOPD:	1	MCFPD:	0	BWPD:	6.67
FORMATION:	BARTLESVILLE	BOPD:	1	MCFPD:	0	BWPD:	6.67
FORMATION:	BARTLESVILLE	BOPD:	1	MCFPD:	0	BWPD:	6.67
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: WING, MARK 10-1 Legal Location: SENWNENE S10-T28S-R16E

The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day 15th 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	210 PARK AVENUE, SUITE 2750, OKLAHOMA CITY, OK 73102-5641

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

Signed this 15th day of OCTOBER, 2012

Jerry Morris

Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 15th day of OCTOBER, 2012

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

Jennifer R Beal

Notary Public

My Commission Expires: July 20, 2016

WING, MARK 10-1-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:
POSTROCK MIDCONTINENT PRODUCTION, LLC	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.

Jeff J Morris

Applicant or Duly Authorized Agent

Subscribed and sworn before me this 15th day of OCTOBER, 2012

NOTARY PUBLIC * OFFICIAL SEAL * STATE OF KANSAS
JENNIFER R. BEAL
MY COMMISSION EXPIRES
7-20-2014

Jennifer R. Beal

Notary Public

My Commission Expires: July 20, 2014

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 **11th** 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

11th day of October, 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
OCTOBER 11, 2012 (3211679)
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 Wing, Mark 10-1 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, Bevier, Croweburg, Fleming, Tebo, Weir, Riverton and Bartlesville** producing formations at the Wing, Mark 10-1, located in the **SE NW NE NE, S10-T28S-R16E, Approximately 658 FNL & 693 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

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 16th day of October, 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: $ 40.04

(Signed) Rita M. Relph

Subscribed and sworn to before me, this 16th day of October, 2012

Rita M. Relph (Notary Public)

My commission expires Aug. 30, 2014

PAID

(Published in the Wilson County Citizen on Monday, October 15, 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 Wing, Mark 10-1 located in Wilson County, Kansas.

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Postrock Midcontinent Production, LLC
210 Park Avenue, Suite 2750
Oklahoma City, Oklahoma 73102
(405) 660-7704
69 1 cpy.

STATE NOTARY PUBLIC KANSAS STATE OF KANSAS

Rita M. Relph
NOTARY PUBLIC
State of Kansas
My Commission Expires

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/

October 30, 2012

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

RE: Approved Commingling CO101208
Wing, Mark E. 10-1, Sec. 10-T28S-R16E, Wilson County
API No. 15-205-26922-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on October 16, 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 CO101208 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