KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1097408

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 # CO111206

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 - 15-205-26792-00-00
Spot Description:
SE - NW - NE - NE Sec. 5 Twp. 28 S. R. 17 ☑ East ☐ West
622 Feet from ☑ North / ☐ South Line of Section
682 Feet from ☑ East / ☐ West Line of Section
County: Wilson
Lease Name: CARLSON BARRY L Well #: 5-1

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

Formation:	SUMMIT	(Perfs):	681-685
Formation:	MULKY	(Perfs):	692-696
Formation:	WEIR	(Perfs):	938-940
Formation:	RIVERTON	(Perfs):	1128-1130
Formation:	BARTLESVILLE	(Perfs):	961-965

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

Formation:	SUMMIT	BOPD:	0	MCFPD:	0	BWPD: 0
Formation:	MULKY	BOPD:	0	MCFPD:	0	BWPD: 0
Formation:	WEIR	BOPD:	0	MCFPD:	0	BWPD: 0
Formation:	RIVERTON	BOPD:	0	MCFPD:	0	BWPD: 0
Formation:	BARTLESVILLE	BOPD:	1.5	MCFPD:	0	BWPD: 10

☑ 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.

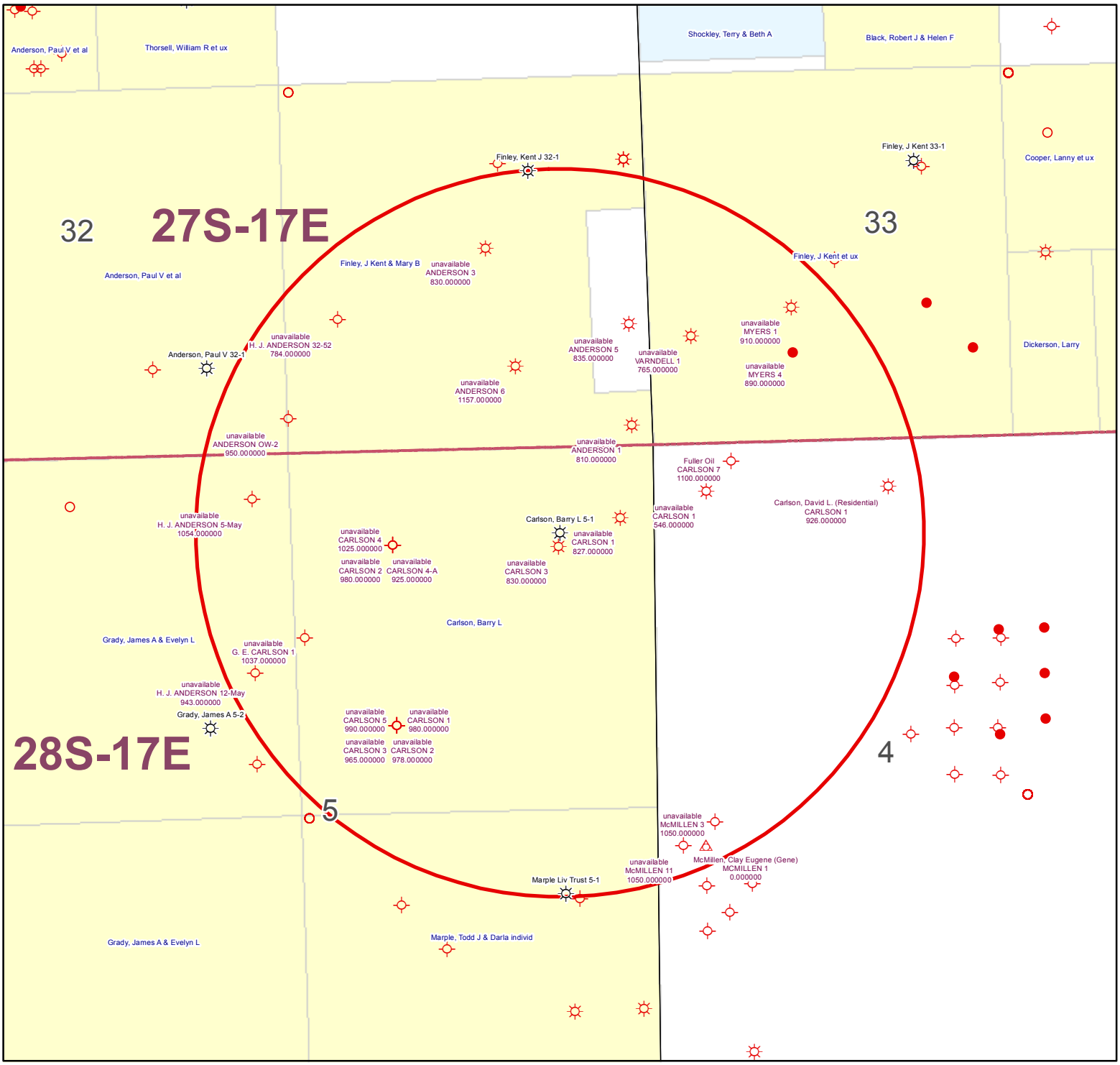
Submitted Electronically

KCC Office Use Only

☐ Denied ☑ Approved
15-Day Periods Ends: 11/14/2012
Approved By: Rick Hestermann Date: 11/14/2012

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



KGS STATUS

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

Carlson, Barry L 5-1
5-28S-17E
1" = 1,000'

	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

ORIGINAL

KANSAS CORPORATION COMMISSION
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: Michael Drilling
License: 33783
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.

7/7/06	7/8/06	7/21/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26792-00-00
County: Wilson
__ - __ - ne - ne Sec. 5 Twp. 28 S. R. 17 ☑ 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: Carlson, Barry L. Well #: 5-1
Field Name: Cherokee Basin CBM
Producing Formation: Multiple
Elevation: Ground: 988 Kelly Bushing: n/a
Total Depth: 1235 Plug Back Total Depth: 1228.34
Amount of Surface Pipe Set and Cemented at 21' 6" Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set ____ Feet
If Alternate II completion, cement circulated from 1228.34
feet depth to surface w/ 120 sx cmt.
A1t2-Dg-12/3/08

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. Ammann
Title: New Well Development Coordinator Date: 11/6/06
Subscribed and sworn to before me this 6th day of November,
20 06.
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
NOV 07 2006
KCC WICHITA

Side Two

Operator Name: Quest Cherokee, LLC Lease Name: Carlson, Barry L. Well #: 5-1

Sec. 5 Twp. 28 S. R. 17 ☑ 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 (Attach Additional Sheets)	☐ Yes	☑ No	☑ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☑ No	Name	Top	Datum
Cores Taken	☐ Yes	☑ No	See attached		
Electric Log Run (Submit Copy)	☑ Yes	☐ No			

List All E. Logs Run:

Compensated Density Neutron Log
Gamma Ray Neutron Log

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	21' 6"	"A"	4	
Production	6-3/4	4-1/2	10.5#	1228.34	"A"	120	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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	1128-1130/938-940	250gal 15%HCLw/ 55bbls 2%kcl water, 475bbls water w/ 2% KCL, Biocide, 6000# 20/40 sand	1128-1130/938-940
4	692-696/681-685	400gal 15%HCLw/ 46bbls 2%kcl water, 590bbls water w/ 2% KCL, Biocide, 13600# 20/40 sand	692-696/681-685

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	1149.14	n/a	☐ Yes ☑ No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method				
8/29/06	☐ Flowing	☑ Pumping	☐ Gas Lift	☐ Other (Explain)	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	n/a	6.8mcf	78bbls		

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)

161

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

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

Date: 07/08/06
Lease: Carlson, Barry L.
County: Wilson
Well#: 5-1
API#: 15-205-26792-00-00

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
0-22	Overburden	635-638	Black Shale
22-104	Lime	638-663	Shale
104-188	Wet Sand	663-664	Coal
188-208	Lime	664-684	Lime
208-223	Shale	683	Gas Test 0" at 1/4" Choke
223-301	Lime	684-691	Black Shale
301-307	Shale	691-696	Lime
307-330	Lime	694	Gas Test 0" at 1/4" Choke
330-343	Sandy Shale	696-698	Black Shale
343-350	Black Shale	698-699	Coal
350-388	Lime	699-708	Sandy Shale
388-410	Shale with Lime streaks	708	Gas Test 30" at 3/4" Choke
410-420	Sandy Shale	708-720	Shale
420-452	Black Shale	720-730	Sand
452-478	Sandy Shale	730-763	Shale
478-488	Shale with Lime streaks	763-765	Coal
488-504	Lime	765-775	Shale
504-530	Shale with Lime streaks	775-778	Coal
530-540	Sand	778-784	Sand
540-560	Sandy Shale	784-794	Shale
560-602	Shale	794-819	Sand
602-605	Lime	819-820	Coal
605-609	Coal	820-868	Sand
609-635	Lime	868-968	Shale

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

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

Date: 07/08/06
Lease: Carlson, Barry L.
County: Wilson
Well#: 5-1
API#: 15-205-26792-00-00

Drilling Log

FEET	DESCRIPTION
968-970	Coal
970-974	Shale
974-976	Coal
976-990	Sandy Shale
984	Gas Test 13" at 1-1/2" Choke
990-1038	Sand
1038-1039	Coal
1039-1104	Sand
1104-1108	Shale
1108-1110	Coal
1110-1128	Shale
1128-1130	Coal
1130-1141	Shale
1135	Gas Test 12" at 1-1/2" Choke
1141-1235	Mississippi Lime
1235	Gas Test 12" at 1-1/2" Choke
1235	TD
	Surface 21' -6"

FEET	DESCRIPTION

CONSOLIDATED OIL WELL SERVICES, INC.
P.O. BOX 884, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

TICKET NUMBER 07275
LOCATION Bartlesville
FOREMAN Tracy L. Williams

TREATMENT REPORT & FIELD TICKET
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-21-06		Barry Carlson 5-1	5	28S	17E	Wilson

CUSTOMER Quest			
MAILING ADDRESS SSI# 615800			
CITY	STATE	ZIP CODE	

TRUCK #	DRIVER	TRUCK #	DRIVER
492	Tim		
497 T99	Roger M		
428	Dusty		
Quest Transports			

JOB TYPE L.S. HOLE SIZE 6 3/4 HOLE DEPTH 1235 CASING SIZE & WEIGHT 4 1/2 10.5
CASING DEPTH 1228 DRILL PIPE TUBING OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 0
DISPLACEMENT 19.58 DISPLACEMENT PSI 2400 MIX PSI 0 RATE 4

REMARKS: Washed down 10 joints of casing + ran 2sks of gel. Rigged up to cement. Ran 2sks of gel + 14 bbl of dye. Ran 120sks of Quickset cement with 5# gilsonite. Shut down + washed up behind plug. Pumped customers plug to bottom. Lost circulation + never got it back. Did circulated cement to surface though. Set shoe + shut in.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE Production Casing		700.00
5406	20	MILEAGE		63.00
5402	1228	Footage		208.76
5407	6.11 Ton	Ton Mileage		513.24
5502C	3hrs	80 Vac		270.00
1107A	120#	Phenoseal		120.00
1110	600#	Gilsonite		276.00
1118B	200#	Premium Gel		28.00
1126A	120 sks	Quickset		1758.00
			6.3% SALES TAX	132.47
			ESTIMATED TOTAL	4124.47

RECEIVED
NOV 07 2006
KCC WICHITA

AUTHORIZATION Randy [signature] TITLE Op. DATE

QUEST
Resource Corporation

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

TICKET NUMBER 1618

FIELD TICKET REF # _____

~~FOREMAN~~ Joe
oversaw Job

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-21-06	Carlson Barry 5-1	5	28	17	WL

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1235 CASING SIZE & WEIGHT 4 1/2 10.5
CASING DEPTH 1228.34 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS:

Cows Cemented Well.
QCOS Supplied Tools

1228.34	Ft 4 1/2 Casing
6	Centralizers
1	4 1/2 Floatshoe
1	wiper plug

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
		Foreman Pickup	
		Cement Pump Truck	
		Bulk Truck	
1104		Portland Cement	
1124		50/50 POZ Blend Cement	
1126		OWC - Blend Cement	
1110		Gilsonite	
1107		Flo-Seal	
1118		Premium Gel	
1215A		KCL	
1111B		Sodium Silicate	
1123		City Water	
903300	2 hr	~~Transport Truck~~ Casing Trailor	
607253	2 hr	~~Transport Trailer~~ Casing trailor	
		80 Vac	

RECEIVED
NOV 07 2006
KCC WICHITA

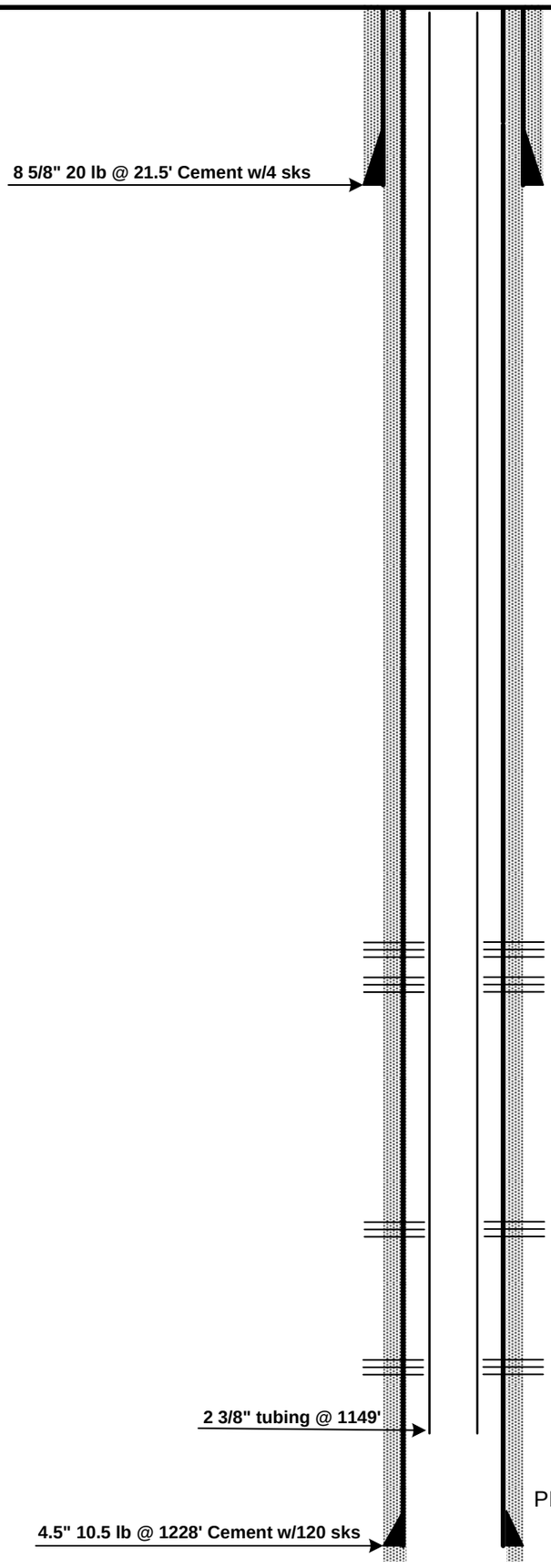
Ravin 4513

POSTROCK	PostRock	Current Completion

WELL : Carlson, Barry L 5-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Wilson

SPUD DATE : 7/7/2006
COMP. Date : 7/21/2006
API:15-205-26792-00-00

LOCATION: 5-28S-17E (NE,NE)
ELEVATION: 988'



Drilled Depth @ 1235'

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			2007	21.5'
4 ½"	10.5 lb		.0159	2007	1228'
2 3/8"				2007	1149'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1

650 gals 15% HCL
1,065 bbls water
19,600 lbs 20/40 sand

Perforations

Original Completion: 4 spf
681-685 Summit (17)
692-696 Mulky (17)
938-940 Weir (9)
1128-1130 Riverton (9)

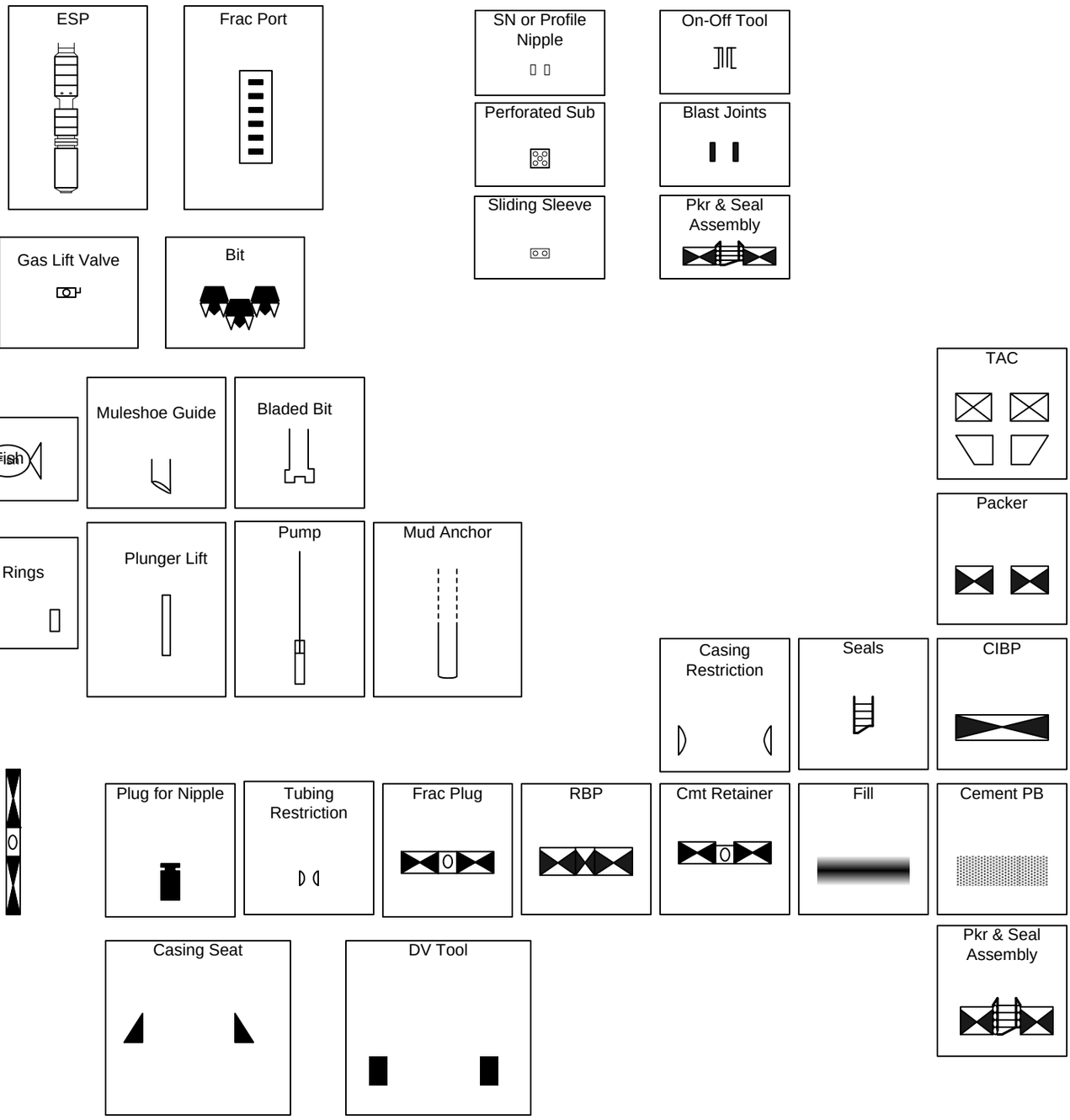
PREPARED BY: POSTROCK **DATE:** Oct, 2012

APPROVED BY: _____ **DATE:** _____

POSTROCK

PostRock

LEGEND



CARLSON, BARRY L 5-1

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

FORMATION:	BARTLESVILLE	(PERFS):	970	-	976
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
FORMATION:		(PERFS):		-	
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:	BARTLESVILLE	BOPD:	1.5	MCFPD:	0	0	BWPD:	10
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:	
FORMATION:	0	BOPD:		MCFPD:			BWPD:	
FORMATION:	0	BOPD:		MCFPD:			BWPD:	
FORMATION:	0	BOPD:		MCFPD:			BWPD:	
FORMATION:	0	BOPD:		MCFPD:			BWPD:	

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 - State of Kansas
My Appt. Expires 5/28/2014

Penny L. Case

Notary Public Sedgwick County, Kansas

Printer's Fee : **$137.20**

LEGAL PUBLICATION

Published in The Wichita Eagle
October 27, 2012 (3214831)
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 **Carlson, Barry L 5-1** 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, Weir, Riverton and Bartlesville** producing formations at the **Carlson, Barry L 5-1,** located in the **SE NW NE NE, S5-T28S-R17E, Approximately 622 FNL & 682 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

Affidavit of Notice Served

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

Well Name: CARLSON, BARRY L 5-1 Legal Location: SENWNENE S5-T28S-R17E

The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day 30th 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)*
CARLSON, DAVID L	18915 WICHITA RD, CHANUTE, KS 66720
FULLER OIL	1312 E CARPENTER, IOLA, KS 66749
MCMILLEN, CLAY EUGENE	RR2, BOX 269, CHANUTE, KS 66720
SEE ATTACHED	

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 30th day of OCTOBER, 2012

Applicant or Duly Authorized Agent

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

Notary Public

My Commission Expires: July 20, 2016

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

CARLSON, BARRY L 5-1

4-28S-17E

SW/4 Betty McMillen
23424 1800 Rd
Chanute, KS 66720

NW/4

Leonard G. Carlson, Life Estate
c/o David Carlson
18915 Wichita Rd.
Chanute, KS. 66720

32-27S-17E

tract in SE/4 David L. & Mary S. Carlson
18915 Wichita Rd.
Chanute, KS. 66720

CARLSON, BARRY L 5-1-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.

Applicant or Duly Authorized Agent

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

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

Notary Public

My Commission Expires: July 20, 2016

CARLSON, BARRY L 5-1

LEGAL LOCATION	SPOT	CURR_OPERA
S4-T28S-R17E	NW NE NW	**Carlson, David L. (Residential)**
S4-T28S-R17E	NE NW NW NW	**Fuller Oil**
S4-T28S-R17E	NW NW SW	**McMillen, Clay Eugene (Gene)**

CARLSON, BARRY L 5-1

4-28S-17E

SW/4 Betty McMillen
23424 1800 Rd
Chanute, KS 66720

NW/4

Leonard G. Carlson, Life Estate
c/o David Carlson
18915 Wichita Rd.
Chanute, KS. 66720

32-27S-17E

tract in SE/4 David L. & Mary S. Carlson
18915 Wichita Rd.
Chanute, KS. 66720

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 29th 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: $ 36.96

(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 Carlson, Barry L 5-1 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, Weir, Riverton and Bartlesville producing formations at the Carlson, Barry L 5-1, located in the SE NW NE NE, S5-T28S-R17E, Approximately 622 FNL & 682 FEL, Wilson County, Kansas.

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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

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/

November 14, 2012

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

RE: Approved Commingling CO111206
Carlson, Barry L. 5-1, Sec. 5-T28S-R17E, Wilson County
API No. 15-205-26792-00-00

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 CO111206 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