



KANSAS CORPORATION COMMISSION 1093855
OIL & GAS CONSERVATION DIVISION

Form ACO-4
Form must be typed
March 2009

APPLICATION FOR COMMINGLING OF **Commingling ID # CO101207**
PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

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 - 15-133-26378-00-00
Spot Description: _____
NW SE NE NW Sec. 20 Twp. 28 S. R. 19 East West
817 Feet from North / South Line of Section
2030 Feet from East / West Line of Section
County: Neosho
Lease Name: SWILER DORIS J Well #: 20-1

1. Name and upper and lower limit of each production interval to be commingled:
- | | |
|-----------------------------|-------------------------|
| Formation: <u>SUMMIT</u> | (Perfs): <u>475-479</u> |
| Formation: <u>MULKY</u> | (Perfs): <u>485-490</u> |
| Formation: <u>BEVIER</u> | (Perfs): <u>569-571</u> |
| Formation: <u>CROWEBURG</u> | (Perfs): <u>594-597</u> |
| Formation: <u>FLEMING</u> | (Perfs): <u>632-634</u> |

2. Estimated amount of fluid production to be commingled from each interval:
- | | | | |
|-----------------------------|----------------|--------------------|------------------|
| Formation: <u>SUMMIT</u> | BOPD: <u>0</u> | MCFPD: <u>4.78</u> | BWPD: <u>.77</u> |
| Formation: <u>MULKY</u> | BOPD: <u>0</u> | MCFPD: <u>4.78</u> | BWPD: <u>.77</u> |
| Formation: <u>BEVIER</u> | BOPD: <u>0</u> | MCFPD: <u>4.78</u> | BWPD: <u>.77</u> |
| Formation: <u>CROWEBURG</u> | BOPD: <u>0</u> | MCFPD: <u>4.78</u> | BWPD: <u>.77</u> |
| Formation: <u>FLEMING</u> | BOPD: <u>0</u> | MCFPD: <u>4.78</u> | BWPD: <u>.77</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

KCC Office Use Only	
<input type="checkbox"/> Denied	<input checked="" type="checkbox"/> Approved
15-Day Periods Ends: <u>10/26/2012</u>	
Approved By: <u>Rick Hestermann</u>	Date: <u>10/30/2012</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.

	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 Click Goal Seek SSP Click		
2	Parameters	Units	Input	Input	Input	Input	Input				
3	Select the brines	Select fluid by checking the box(es),	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mixed brine:			
4	Sample ID	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cell H28 is			
5	Date	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012		STP calc. pII.			
6	Operator	Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith		Cells H35-38			
7	Well Name	#34-1	#4-1	#5-4	#1	#2		are used in			
8	Location	CBM	CBM	Bariles	Bariles	Bariles		mixed brines			
9	Field							calculations.			
10	Na ⁺	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	ST/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	Si ²⁺	(mg/l)						0.00	Barite		
15	Ba ²⁺	(mg/l)						0.00	Halite		
16	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Gypsum		
17	Zn ²⁺	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb ²⁺	(mg/l)						0.00	Hemihydrate		
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	Anhydrite		
21	F ⁻	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br ⁻	(mg/l)						0.00	Celestite		
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	Iron Sulfide		
25	CO3 Alkalinity	(mg/l as CO3)							Zinc Sulfide		
26	Carboxylic acids**	(mg/l)						0.00	Calcium fluoride		
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H3BO3						0.00	Iron Carbonate		
29	TDS (Measured)	(mg/l)						72781	Inhibitor needed (mg/L)		
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcite		
31	CO ₂ Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16	NTMP		
32	H ₂ S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	BHPMP		
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	Gypsum		
	Choose one option to calculate SI?	0-CO2%+Alk. 1-pH+Alk. 2-CO2%+pH	0	0	0	0	0		HDTMP		
35	Gas/day(thousand cf/day)	(Mcf/D)						0	0.00	0.00	
36	Oil/Day	(B/D)	0	0	1	1	1	4	Barite		
37	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	
38	For mixed brines, enter values for temperatures and pressures in Cells (H40-H43)								(Enter H40-H43)		pH
39	Initial T	(F)	66.0	71.0	70.0	41.0	49.0	60.0	5.69	5.60	
40	Final T	(F)	66.0	71.0	70.0	41.0	49.0	89.0	Viscosity (CentiPoise)		
41	Initial P	(psia)	25.0	25.0	25.0	25.0	25.0	25.0	1.196	0.826	
42	Final P	(psia)	25.0	25.0	25.0	25.0	25.0	120.0	Heat Capacity (cal/ml/C)		
43	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959	
44	API Oil Grav.	API grav.						30.00	Inhibitor needed (mg/L)		
45	Gas Sp.Grav.	Sp.Grav.						0.60	Gypsum	HDTMP	
46	MeOH/Day	(B/D)	0					0	0.00	0.00	
47	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP	
48	Conc. Multiplier								0.00	0.00	
49	H ⁺ (Strong acid) †	(N)									
50	OH ⁻ (Strong base) †	(N)									
51	Quality Control Checks at STP:										
52	H ₂ S Gas	(%)									
53	Total H2Saq (STP)	(mgH2S/l)									
54	pH Calculated	(pH)									
55	PCO2 Calculated	(%)									
56	Alkalinity Calculated	(mg/l) as HCO3									
57	ΣCations=	(equiv./l)									
58	ΣAnions=	(equiv./l)									
59	Calc TDS=	(mg/l)									
60	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)			Value		
61	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value		
62	Have ScaleSoft/Pitzer			2	BHPMP	°C	80	°F	176		
63	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m ³	100	ft ³	3,531		
64	If No, inhibitor # is:	4	#	4	DTPMP	m ³	100	bbl(42 US gal)	629		
65	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074		
66	1 st inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194		
67	% of 1 st inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193		
68	2 nd inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bbl(42 US gal)	238		
69	Display act. coeffs?	0	1-Yes;0-No	9	Average	Liters	10,000	bbl(42 US gal)	63		
70				10	Mixed						

Saturation Index Calculations

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

Brine 1: Ward Feed Yard 34-1

Brine 2: Ward Feed Yard 4-1

Brine 3: Clinesmith 5-4

Brine 4: Clinesmith 1

Brine 5: Clinesmith 2

Component (mg/L)	Ratio					Mixed Brine
	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO 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
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
September 1999
Form Must Be Typed

ORIGINAL

Operator: License # 33344
 Name: Quest Cherokee, LLC
 Address: 211 W. 14th Street
 City/State/Zip: Chanute, KS 66720 **RECEIVED**
 Purchaser: Bluestem Pipeline, LLC
 Operator Contact Person: Gary Laswell **APR 19 2006**
 Phone: (620) 431-9500 **CONSERVATION DIVISION**
 Contractor: Name: Michaels Drilling, LLC **WICHITA, KS**
 License: 33783
 Wellsite Geologist: n/a
 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>12/27/05</u>	<u>12/29/05</u>	<u>1/6/06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 133-26378-0000
 County: Neosho
N2.S2 ne. nw Sec. 20 Twp. 28 S. R. 19 East West
800 feet from S / (N) (circle one) Line of Section
1980 feet from E / (NW) (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE (NW) SW
 Lease Name: Swiler, Doris J. Well #: 20-1
 Field Name: Cherokee Basin CBM
 Producing Formation: Multiple
 Elevation: Ground: 932 Kelly Bushing: n/a
 Total Depth: 1008 Plug Back Total Depth: 1000
 Amount of Surface Pipe Set and Cemented at _____ Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 1000
 feet depth to surface w/ 131 sx cmt.
ALT II WITH 8-28-06
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: May Powell
 Title: Head of Operations Date: 4/8/06
 Subscribed and sworn to before me this 8th day of April
 20 06.
 Notary Public: Jennifer R. Ammann
 Date Commission Expires: July 30, 2009

KCC Office Use ONLY

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

JENNIFER R. AMMANN
 Notary Public - State of Kansas
 My Appl. Expires 7-30-09

Operator Name: Quest Cherokee, LLC Lease Name: Swiler, Doris J. Well #: 20-1
 Sec. 20 Twp. 28 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Comp. Density/Neutron Log Dual Induction Log Gamma Ray/Neutron Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See attached <div style="text-align: center;"> RECEIVED KANSAS CORPORATION COMMISSION APR 19 2006 CONSERVATION DIVISION WICHITA, KS </div>
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface		8-5/8"	20#	21-4	"A"		
Production	6-3/4"	4-1/2	10.5#	1000	"A"	131	

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	896-900/839-841/741-743/632-634/648-650/594-597	400gal 15% HCL w/ 23 bbls 2% acid water, 600bbls water w/ 2% KCL, Blockin, 63sks 20#40 sand	896-900/839-841
4	569-571/485-490/475-479	400gal 15% HCL w/ 24 bbls 2% acid water, 800bbls water w/ 2% KCL, Blockin, 62sks 20#40 sand	741-743/632-634
			648-650/594-597
			569-571
		400gal 15% HCL w/ 31 bbls 2% acid water, 215bbls water w/ 2% KCL, Blockin, 15sks 20#40 sand	485-490/475-479

TUBING RECORD		Size <u>2-3/8"</u>	Set At <u>981.88</u>	Packer At <u>n/a</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>2/27/06</u>		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>n/a</u>	Gas Mcf <u>0mcf</u>	Water Bbls. <u>77.9bbls</u>	Gas-Oil Ratio	Gravity

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

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

Production Interval _____



RECEIVED
KANSAS CORPORATION COMMISSION

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

APR 19 2006

CONSERVATION DIVISION
WICHITA, KS

TICKET NUMBER 1406

FIELD TICKET REF # _____

FOREMAN Dwayne

TREATMENT REPORT
& FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER				SECTION	TOWNSHIP	RANGE	COUNTY
1/6/06	Swiler Dris J 20-1				20	28S	19E	ND
FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE	
Dwayne	7:00	11:15	NO	901640		4 1/4	<i>[Signature]</i>	
Tim	6:45	11:15	NO	903255		4.5	<i>[Signature]</i>	
Mike W.	7:00	11:15	NO	903103		4.25	<i>[Signature]</i>	
Leon	7:00	11:15	NO	903100		4.25	<i>[Signature]</i>	
David	7:00	11:15	NO	903296	T33	4.25	<i>[Signature]</i>	

JOB TYPE Long String HOLE SIZE 6 3/4 HOLE DEPTH 1008 CASING SIZE & WEIGHT 4 1/2 10.5
 CASING DEPTH 100' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
 DISPLACEMENT 16 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS:

Wash Down 40' of Casing then Pump 2 Sacks Perm Gel and Flush to Surface. Then Pump 10 Bbl Dye Followed by 131 Sack Cement to get Dye Back Stop and wash out Pump then Stop and Wash out Pump and Then Pump wiper Plug to Bottom and Set Float Shoe.

901739	2 hr	casing diverter	
T28	2 hr	casing trailer	
	4	centralizers	
	1	4 1/2 Float Shoe	
	1	4 1/2 Rubber Plug	
	2	Baffle Plates 3 1/2" x 3"	
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
901640	4 1/4 hr	Foreman Pickup	
903255	4.5 3.5 hr	Cement Pump Truck	
903103	4.25 3.5 hr	Bulk Truck	
1104	121 SK	Portland Cement	
1124	0	50/50 POZ Blend Cement For Baffling 3 1/2" x 3"	
1126	999.31	OWC - Blend Cement ft 4 1/2 casing	
1110	13 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
1118	2 SK	Premium Gel	
1215A	1 gal	KCL	
1215B	3 SK	Stannous Chloride Cal Chloride	
1123	7000 Gal	City Water	
903296	4.25 3.25 hr	Transport Truck	
T33	4.25 3.25 hr	Transport Trailer	
903100	4.25 hr	80 Vac	

Michael Drilling, LLC

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

RECEIVED 9
KANSAS CORPORATION COMMISSION

APR 19 2006

CONSERVATION DIVISION
WICHITA, KS

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

Date: 12/27/05
Lease: Swiler, Doris J.
County: Neosho
Well#: 20-1
API#: 15-133-26378-00-00

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
0-2	Overburden	333-361	Shale
2-40	Lime	361-369	Lime
40-43	Black Shale	369-371	Coal
43-50	Lime	371-374	Shale
50-57	Shale	374-408	Lime
57-87	Sand, Sandy Shale	373	Gas Test (11" at 1/4 Choke)
87-92	Lime	408-411	Black Shale
92-93	Coal	411-423	Shale
93-102	Lime and Shale	413	Gas Test (51" at 1/4 Choke)
102-179	Lime	423-424	Coal
179-	Wet Went To Water	424-432	Shale
179-182	Black Shale	432-449	Sandy Shale
182-184	Lime	449-451	Coal
184-195	Shale	451-472	Lime
195-207	Lime	457	Gas Test (23" at 1/4 Choke)
207-210	Black Shale	472-474	Shale
210-252	Shale	474-477	Black Shale
252-254	Lime	477-478	Coal
254-281	Shale	478-480	Shale
281-288	Lime	480-485	Lime
288-303	Lime and Shale	482	Gas Test (53" at 1/4 Choke)
300	Gas Test (0" at 1/4 Choke)	485-488	Black Shale
303-329	Shale	488-489	Coal
329-333	Sand/Sandy Shale	489-557	Shale

Michael Drilling, LLC

**P.O. Box 402
Iola, KS 66749
620-365-2755**

RECEIVED
KANSAS CORPORATION COMMISSION

APR 19 2006

CONSERVATION DIVISION
WICHITA, KS

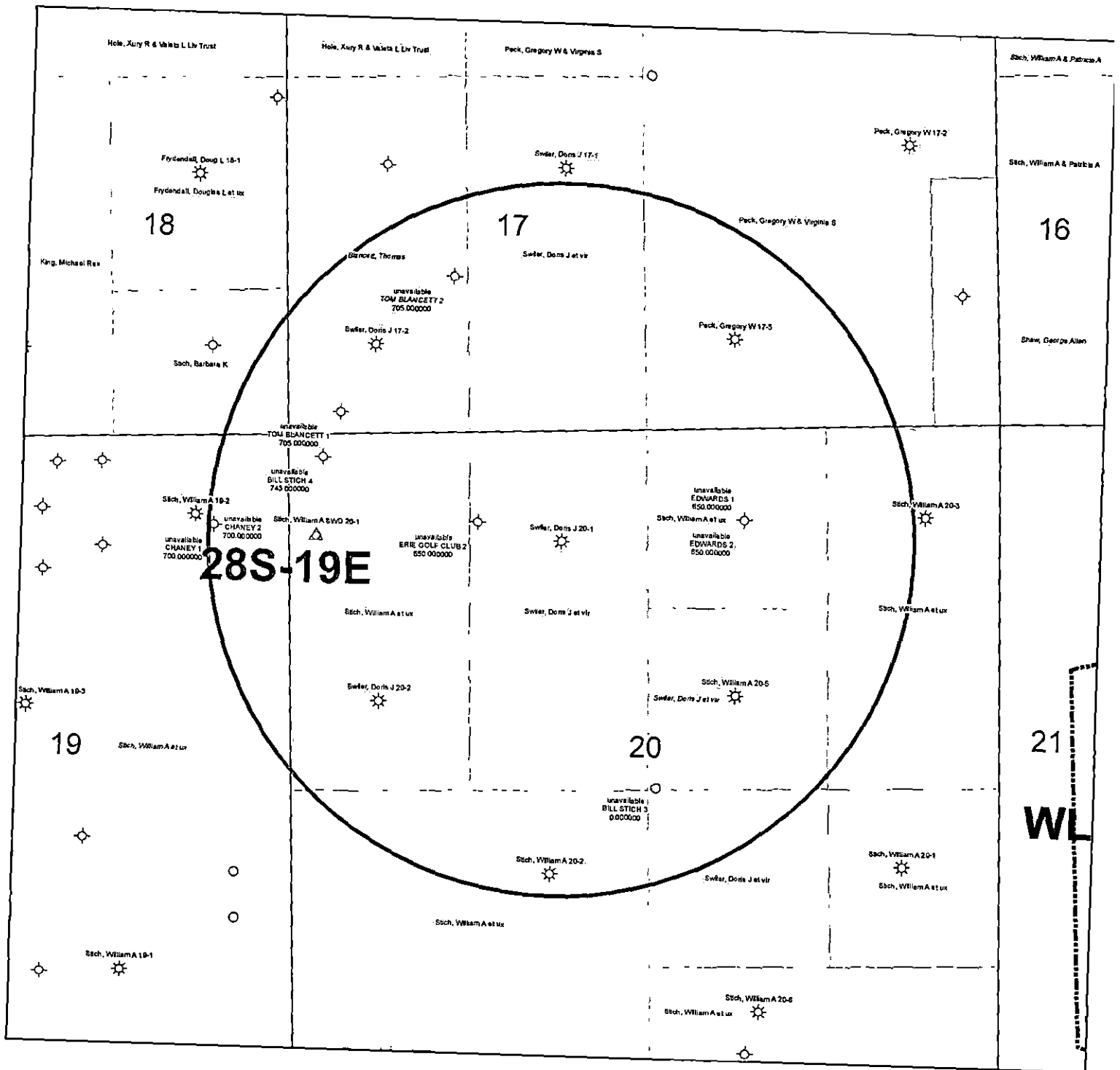
Company: Quest Cherokee LLC
Address: 9520 North May Ave, Suite 300
Oklahoma City, Oklahoma 73120

Ordered By: Donnie Meyers

Date: 12/27/05
Lease: Swiler, Doris J.
County: Neosho
Well#: 20-1
API#: 15-133-26378-00-00

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
557-559	Lime	740-742	Lime
559-571	Shale	742-743	Coal
571-574	Lime	743-748	Shale
574-576	Shale	748-749	Coal
576-577	Coal	749-764	Shale
577-597	Shale	730	Gas Test (0" at 1/4 Choke)
597-598	Lime	764-766	Coal
598-601	Shale	766-790	Shale
601-602	Coal	790-791	Coal
602-625	Shale	791-797	Shale
625-626	Coal	797-799	Coal
626-633	Shale	799-815	Shale
633-634	Coal	815-816	Coal
634-650	Shale	816-825	Shale
650-651	Coal	825-841	Sandy Shale
651-663	Shale	841-843	Coal
663-664	Coal	843-897	Sandy Shale
664-668	Sandy Shale	897-899	Coal
668-680	Sand	899-912	Shale
680-694	Shale	912-1008	Mississippi Lime
694-695	Coal	933	Gas Test (10" at 1/4 Choke)
695-702	Sand Sandy Shale	1008	T.D.
702-712	Shale	1008	Gas Test (10" at 1/4 Choke)
712-740	Sandy Shale		



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

Swiler, Doris J 20-1
 20-28S-19E
 1" = 1,000'

POSTROCK



Current Completion

WELL : Swiler, Doris J 20-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Neosho

SPUD DATE : 12/27/2005
COMP. Date : 1/6/2006
API: 15-133-26378-00-00

LOCATION: 20-28S-19E (NE,NW)
ELEVATION: 932'

8 5/8" 20 lb @ 21' Cement w/ 7 sks

Wellhead/Surface Equipment

Tree Connection	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

Tubular Detail

Size	Weight	Grade	Cap(bbl/ft)	Date	Depth
8 5/8"	20 lb			2005	21'
4 1/2"	10.5 lb		.0159	2005	1000'
2 3/8"				2006	981'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1
1,200 gals 15% HCL
1,315 bbls water
18,300 lbs 20/40 sand

Perforations

Original Completion: 4 spf
475-479 Summit
485-490 Mulky
569-571 Bevier
594-597 Croweburg
632-634 Fleming
648-650 Fleming
741-743 Bluejacket
839-841 Rowe/Neutral
896-900 Riverton

2 3/8" tubing @ 981'

4.5" 10.5 lb @ 1000' Cement w/131 sks

PBTD @ 1000'

Drilled Depth @ 1008'

PREPARED BY: POSTROCK

DATE: Sept, 2012

APPROVED BY: _____

DATE: _____

POSTROCK



LEGEND

PostRock™

ESP 	Frac Port 	SN or Profile Nipple 	On-Off Tool
Gas Lift Valve 	Bit 	Perforated Sub 	Blast Joints
		Sliding Sleeve 	Pkr & Seal Assembly
Fish 	Muleshoe Guide 	Bladed Bit 	TAC
Frac Rings 	Plunger Lift 	Pump 	Packer
		Mud Anchor 	Casing Restriction
			Seals
			CIBP
	Plug for Nipple 	Tubing Restriction 	Plug for Nipple
		Frac Plug 	RBP
			Cmt Retainer
			Fill
			Cement PB
	Casing Seat 	DV Tool 	Pkr & Seal Assembly

Affidavit of Notice Served

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

Well Name: SWILER, DORIS J 20-1 Legal Location: N2S2NENW S20-T28S-R19E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 10th 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 CHANUTE TRIBUNE, the official county publication of NEOSHO county. A copy of the affidavit of this publication is attached.

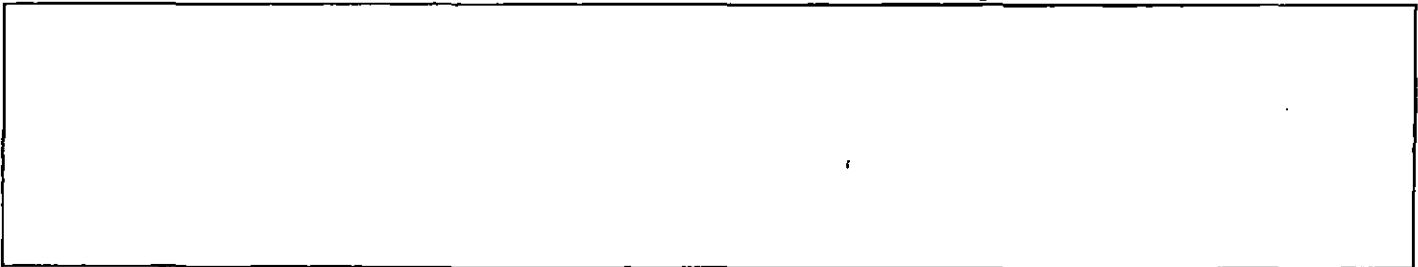
Signed this 10th day of OCTOBER, 2012

Jess Morris
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 10th day of OCTOBER, 2012



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



SWILER, DORIS J 20-1-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.

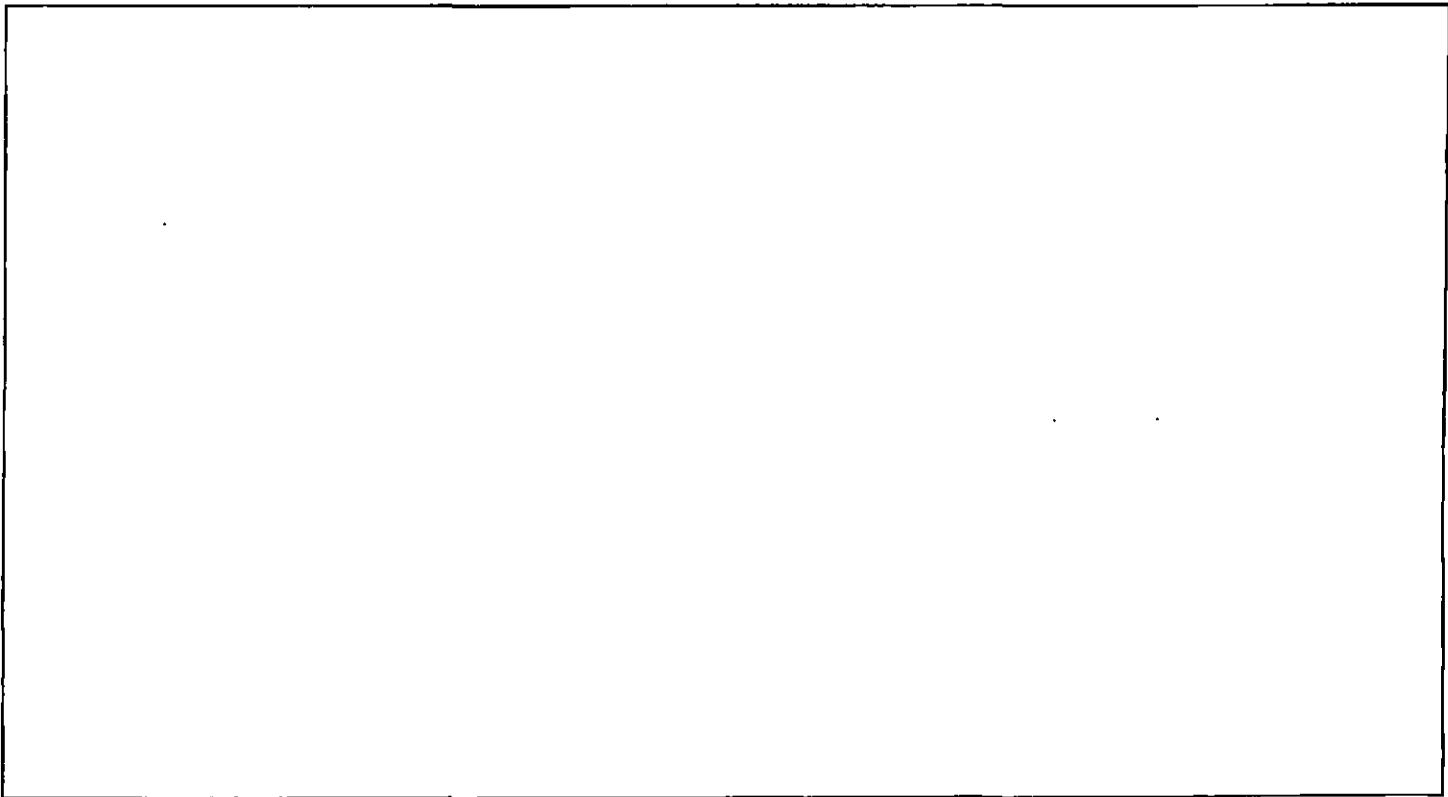
Jess Morris
Applicant or Duly Authorized Agent

Subscribed and sworn before me this _____ day of OCTOBER, 2012



Notary Public

My Commission Expires: _____



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 Swiler, Doris J 20-1 located in Neosho 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 commingle the Summit, Mulky, Bevier, Croweburg, Fleming, Bluejacket, Rowe/Neutral, Riverton and Cattleman producing formations at the Swiler, Doris J 20-1, located in the N2 S2 NE NW, S20-T28S-R19E, Approximately 817 FNL & 2030 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

A COPY OF THE AFFIDAVIT OF
PUBLICATION MUST ACCOMPANY
ALL APPLICATIONS

Affidavit of Publication

STATE OF KANSAS, NEOSHO COUNTY, ss:
Rhonda Howerter, being first duly sworn,
deposes and says: That *she* is *Classified Manager*
of *THE CHANUTE TRIBUNE*, a daily newspaper printed
in the State of Kansas, and published in and of general
circulation in Neosho County, Kansas, with a general paid
circulation on a daily basis in Neosho 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 Chanute, 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 time, the first publication
thereof being made as aforesaid on the 10 day of
October
2012, with subsequent publications being made on the fol-
lowing dates:

_____, 2012 _____, 2012
_____, 2012 _____, 2012

Rhonda Howerter

Subscribed and sworn to and before me this _____
10 day of October, 2012

[Signature]
Notary Public

My commission expires: January 9, 2015
Printer's Fee \$ 160.98
Affidavit, Notary's Fee \$ 3.00
Additional Copies \$ _____
Total Publication Fees \$ 169.98

**SHANNA L. GUIOT**
Notary Public - State of Kansas
My Appl. Expires

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 (3211685)
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 Swifter,
Doris J 20-1 located in Nessha 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
summit, Mukky, Blvior, Crowberry, Fleming,
Bluelacker, Rowe, Nodul, Riverian, and
Cafferman producing formations of the Swifter,
Doris J 20-1, located in the N4 S2 NE NW, S20,
T20S-R19E, Approximately 317 FNL, A 2020
FWL, Nessha 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 2150
Oklahoma City, Oklahoma 73102
(405) 660-7704

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



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

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

Sam Brownback, Governor

October 30, 2012

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

RE: Approved Commingling CO101207
Swiler, Dorir J. 20-1, Sec. 20-T28S-R19E, Neosho County
API No. 15-133-26378-00-00

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 CO101207 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