

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1089933

Form ACO-4 Form must be typed March 2009

# APPLICATION FOR COMMINGLING OF Commingling ID # CO091201 PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License # 33343	API No. 1515-133-26483-00-00
Name: PostRock Midcontinent Production LLC	Spot Description:
Address 1: Oklahoma Tower	NE SW SE NE Sec. 20 Twp. 28 S. R. 18   ✓ East   West
Address 2: 210 Park Ave, Ste 2750	
City: OKLAHOMA CITY State: OK Zip: 73102 +	
Contact Person: CLARK EDWARDS	County: Neosho
Phone: (620 ) 432-4200	Lease Name: SPIEKER HUGO Well #: 20-1
1. Name and upper and lower limit of each production interval to	
Formation: SUMMIT	(Perfs): 602-606
Formation: MULKY	(Perfs): 614-618
Formation: CROWEBURG	(Perfs): 715-718
Formation: FLEMING	(Perfs): 754-756
Formation: FLEMING	(Perfs): 774-776
<b>-</b>	
2. Estimated amount of fluid production to be commingled from e	0 88 3.88
Formation: SUMMIT	BOPD MICFPD BVPD 3.88
Formation: MULKY Formation: CROWEBURG	BOPD; MCFPD: BWPD:
EL EMINIÓ	BUPD IVICPPD BVVPD
EL EMINIC	00 200
Formation: FLEIVIING	BOPD: U MCFPD: .00 BWPD: 3.00
<ol> <li>Plat map showing the location of the subject well, all other well the subject well, and for each well the names and addresses of</li> </ol>	lls on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of of the lessee of record or operator.
4. Signed certificate showing service of the application and affida	avit 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 compati	bility of the fluids to be commingled.
<b>AFFIDAVIT:</b> 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	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.
15-Day Periods Ends: 9/25/2012	1
Approved By: Rick Hestermann Date: 09/25/2012	

	Α	В	C	D	E	F	G	H_		J	К
1	Produced Fluids #		1	2	3	4	5				Click
	Parameters	Units	Input	Input	Input	Input	Input		Click he	re	Click
3	Select the brines	Select fluid						Mixed brine:	to run S	SP	Click
4	Sample ID	by checking						Cell H28 is		,	CHER
5	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.	·"		
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			Click
7 8	Well Name		Ward Feed #34-1	Ward Feed #4-1	Clinesmith #5-4	Clinesmith #1	Clinesmith #2	are used in mixed brines	Goal Seek	SSP .	
9	Location Field	·	CBM	CBM	Bartles	#1 Bartles	#2 Bartles	calculations.		•	Click
	Na <sup>+</sup>	( 5)+				25689.00			Initial(BH)	Final(WH)	1
		(mg/l)*	19,433.00	27,381.00	26,534.00	25089.00	24220.00	24654.20	· · · · · · · · · · · · · · · · · · ·		SI/SR
11	K* (if not known =0)	(mg/l)							Saturation Index		(Final-Initia
12	Mg <sup>2+</sup>	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Ca	lcite	
13	Ca <sup>2+</sup>	(mg/l)	1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040.23	-0.73	-0.60	0.13
14	Sr <sup>2+</sup>	(mg/l)						0.00	Ba	rite	
15	Ba <sup>2+</sup>	(mg/l)				, and the second		0.00			
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	H	alite	
17	Zn²+	(mg/l)						0.00	-1.77	-1.80	-0.03
_	Pb <sup>2+</sup>	(mg/l)						0.00		osum	+
19	Ci	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00		-3.19	-3.18	0.00
_	SO <sub>4</sub> <sup>2</sup>			1.00							0.00
20	E.	(mg/l)	1.00	1.00	8.00	1.00	1.00			hydrate	1 225
21	r	(mg/l)	L			ļ		0.00	-3.96	-3.90	0.06
==_	Br`	(mg/l)						0.00		ydrite	
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	- Cel	estite	
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	Calciun	fluoride	
31	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	lron C	arbonate	
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)	pН	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor n	eeded (mg/L)	
	Ch	0-CO2%+Aik.							Calcite	NTMP	
35	Choose one option to calculate S1?		0	0	a	٥					
_	Gas/day(thousand cf/day)	(Mcf/D)						<del>-</del>	0.00	0.00	-
37	Oil/Day	(B/D)	0	0		1		<del>                                     </del>	Barite	ВНРМР	-
38	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	-1
39	For mixed brines, enter va			ures in Cells (H				(Enter H40-H43)		Н	
40	Initial T	(F)	66.0	71.0	70.0	41.0	49.0		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	4
43	Final P	(psia)	25.0	25.0	25.0	25.0	25.0	120.0		ty (cal/ml/°C)	_
44	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959	4
45	API Oil Grav.	API grav.						30.00		eeded (mg/L)	-
	Gas Sp.Grav. MeOH/Day	Sp.Grav. (B/D)	- n				<del></del>	0.60	Gypsum 0.00	0.00	1
	MEG/Day	(B/D)	0					1 0	Anbydrite	HDTMP	1
	Conc. Multiplier	` - /							0.00	0.00	_
_	H* (Strong acid) '	(N)					ļ				_
	OH (Strong base) †	(N)						l	1		
	Quality Control Checks at							-			
	H <sub>2</sub> S Gas	(%)							]		
54	Total H2Saq (STP)	(mgH2S/l)							l		
	pH Calculated	(pH)						l	l		
	PCO2 Calculated	(%)							l		
	Alkalinity Caclulated ECations=	(mg/l) as HCO3 (equiv./l)						}	l		
	ΣAnions=	(equiv./I)			,			}	l		
	Calc TDS=	(mg/l)							1		
61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converte	(From metric	to English)			
62	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value		
63	Have ScaleSoftPitzer			2	ВНРМР	°C	80	°F	176		
00	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m³	100	ſt³	3,531		
	If No, inhibitor # is:	4	#	4	DTPMP	m³	100	bbl(42 US gal)	629		
64	11 No, inhibitor # is:	1		5	PPCA	MPa	1,000	psia	145,074		, -
64 65	If you select Mixed,										•
64 65		1	#	6	SPA	Bar	496	psia	7,194		
64 65 66	If you select Mixed,	1 50	# %	6	SPA HEDP	Bar Torr	496 10,000	psia psia	7,194 193		
64 65 66 67	If you select Mixed, 1s inhibitor # is:		# % #					-			
64 65 66 67 68 69	If you select Mixed, I <sup>#</sup> inhibitor # is: % of 1 <sup>st</sup> inhibitor is:	50		7	HEDP	Torr	10,000	psia	193		

# **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

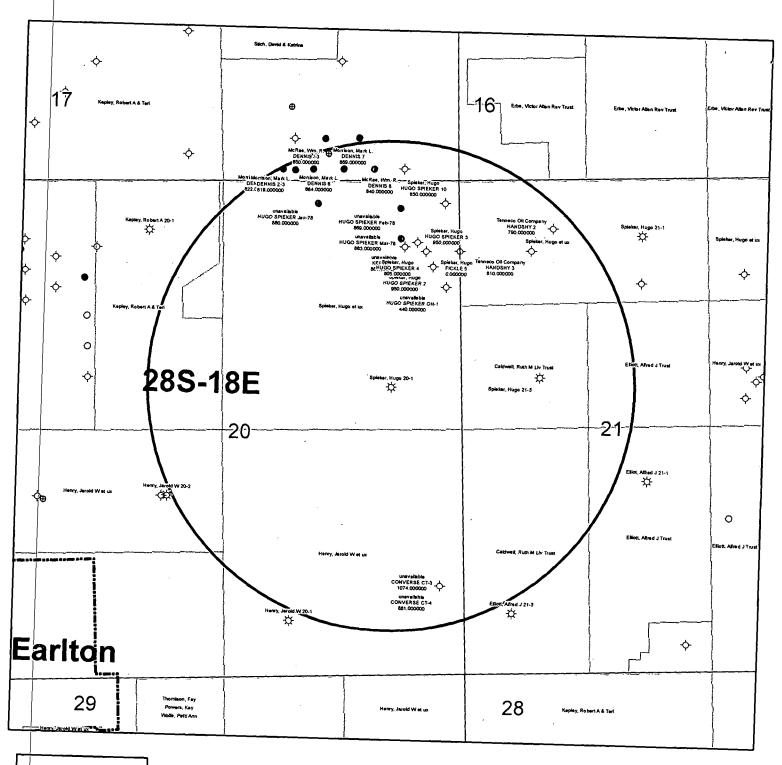
			Ratio			I
	20%	20%	20%	20%	20	
Component (mg/L)	Brine 1	Brine 2	Brine 3	Brine 4	Brine 5	Mixed Brine
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	, 0
Strontium	0 .	0	0	. 0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	. 1	8	1	1 '	1
Chloride	36299	48965	47874	45632	43147	43206
CO <sub>2</sub> in Brine	246	220	264	422	405	401
Ionic Strength	1.12	1.48	1.46	1.38	1.31	1.31
Temperature (°F)	89	89	89	89	89	89
Pressure (psia)	50	- 50	120	120	120	119

# Saturation Index

Calcite	-1.71	-1.41	-1.48	-1.68	-1.69	-1.69
Gypsum	-3.71	-3.64	-2.82	-3.73	-3.72	-3.69
Hemihydrate	-3.70	-3.65	-2.83	-3.74	-3.71	-3.69
Anhydrite	-3.89	-3.79	-2.97	-3.89	-3.88	-3.85
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

## PTB

1,10						
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



# KGS STATUS

- ♦ DA/PA
- ⊕ EOR
- ☆ GAS
- △ INJ/SWD
- OIL
- \* OIL/GAS
- OTHER

Spieker, Hugo 20-1 20-28S-18E 1" = 1,000'

# ORIGINAL.

# RECEIVED KANSAS CORPORATION COMMISSION

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

JUN 2 0 2006

Form ACO-1 September 1999 Form Must Be Typed

# WELL COMPLETION FORM CONSERVATION DIVISION WELL HISTORY - DESCRIPTION OF WELL & LEASE WICHTA, KS

Operator: License # 33344	API No. 15 - 133-26483-0000
Name: Quest Cherokee, LLC	County: Neoshio
Address: 211 W. 14th Street	sene_Sec20Twp28S. R18
City/State/Zip: Chanute, KS 66720	1980 teet from S / (N) (circle one) Line of Section
Purchaser: Bluestern Pipeline, LLC	660 teet from (E) / W (circle one) Line of Section
Operator Contact Person: Gary Laswell	Footages Calculated from Nearest Outside Section Corner:
Phone: (_620)431-9500	(circle one) NE SE NW SW
Contractor: Name: Well Refined Drilling Company, inc	Lease Name: Spieker, Hugo Well #: 20-1
License: 33072	Field Name: Cherokee Basin CBM
Wellsite Geologist: n/a	Producing Formation: Multiple
Designate Type of Completion:	Elevation: Ground: 950 Kelly Bushing: n/a
New Well Re-Entry Workover	Total Depth: 1130 Plug Back Total Depth: 1126.28
·	Amount of Surface Pipe Set and Cemented at 20 Feet
Oil SWD SlOW Temp. Abd.	
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1126.28
Operator:	feet depth to surface w/ 130 sx cmt.
Well Name:	Drilling Fluid Management Plan
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr/SWD	Chloride content ppm Fluid volume bbls
Plug BackPlug Back Total Depth	Dewatering method used
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	
Other (SWD or Enhr.?) Docket No	Operator Name:
2/21/06 2/22/06 2/27/06	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, worko Information of side two of this form will be held confidential for a period of	th the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, wer or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. I 2 months if requested in writing and submitted with the form (see rule 82-3-13 and geologist well report shall be attached with this form. ALL CEMENTING Is. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulate and correct to the best of my knowledge.	ulate the oil and gas industry have been fully complied with and the statements
Signature: / Jan / Course	KCC Office Use ONLY
Head of Operations 6/10/06	
	Letter of Confidentiality Received
Subscribed and sworn to before me this 19th day of	f Denied, Yes Date:
20 06.	Wireline Log Received
	Geologist Report Received
Notary Public: Jannifor & Usmmann	UIC Distribution
Date Commission Expires:	A. JEWIFERR AMMANA
0 0	Notary Public - State of Kansas
	My Appt. Expires 7-30-09

#### Side Two

Operator Name: Que	est Cherokee, LL	<u>C</u>	Lease Name:	Spieker, Hug	0 ,	_ Well #: 20-1	<u> </u>
Sec. 20 Twp. 2	8 S. R. 18	✓ East	County: Neas	ho			
tested, time tool oper temperature, fluid rec	n and closed, flowing covery, and flow rate:	and base of formations por grand shut-in pressures, s if gas to surface test, a inal geological well site r	whether shut-in pro long with final chai	essure reached	static level, hydro	ostatic pressure	es, bottom hole
Drill Stern Tests Take		☐ Yes ☑ No	<b>∑</b> r	.og Formati	ion (Top), Depth a	and Datum	Sample
Samples Sent to Geo	,	☐ Yes ☑ No	Nam	e Attached		Тор	Datum
Cores Taken		Yes VNo	See	Auacheu			
Electric Log Run (Submit Copy)		✓ Yes No			•		
List All E. Logs Run:							
Comp. Densit Dual Induction	, .		RECORD N	ew Used			
		Report all strings set-			ation, 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*	4	
Production	6-3/4"	4-1/2"	10.5#	1126.28	"A"	130	
						<u> </u>	
		ADDITIONAL	CEMENTING / SQ	JEEZE RECORI	<u> </u>		
Purpose:  — Perforate — Protect Casing — Plug Back TD — Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used		Type and F	Percent Additives	
Shots Per Foot		ON RECORD - Bridge Plut Footage of Each Interval Per			acture, Shot, Cemen mount and Kind of Mi		rd Depth
4	1014-1018/853-8	55/870-872/754-756/7	74-776/715-718	200gal 15% HCL w/ 22 b	iche 2% kal weier, 640achs weie	w/ 2% KC3., Blockte 4200	2000 mms 1014-101
4	614-618/602-60	6					
				500gal 15% HCL w/ 38 b	tila 2% kal water, 625ktila water	≠ 2% KCZ., Blookle 14000	353-855/870-8
						754	-756 774-778/715-7
				400gal 15% HCL w/ 48 b	zis 2% kal weter, 518bids wele	w/ 2% (CCL, Blookle 780)	2040 sand 614-618/602-60
TUBING RECORD 2-	Size 3/8*	Set At 1044	Packer At	Liner Run	Yes 🗸 No		
Date of First, Resument	d Production, SWD or E	nhr. Producing Met	hod Flowin	g 📝 Pump	ing Gas Life	t Othe	er (Explain)
Estimated Production Per 24 Hours	n/a	Bbls. Gas 26.5mcf	Mcf Wat 78.8		Bbls. (	Gas-Oil Ratio	Gravity
Disposition of Gas	METHOD OF C	COMPLETION	- <u> </u>	Production inte	rval		
Vented Sold (If vented, Su	Used on Lease	Open Hole Other (Spec		Oually Comp.	Commingled _		



# RECEIVED KANSAS CORPORATION COMMISSION

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

# JUN 2 0 2006

CONSERVATION DIVISION WICHITA, KS

TICKET NUMBER 1255	
FIELD TICKET REF #	
EODEMAN TOP	

SECTION TOWNSHIP

# TREATMENT REPORT & FIELD TICKET CEMENT

WELL NAME & NUMBER

2.27.66	<tione< th=""><th><u>r.</u> 1-</th><th>1000 20-</th><th><u>-                                    </u></th><th>20</th><th>३८ /</th><th>S No</th></tione<>	<u>r.</u> 1-	1000 20-	<u>-                                    </u>	20	३८ /	S No
FOREMAN / OPERATOR	TIME	TIME	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
.Tax 12	11:30	7 00		903388	<u>_</u>	2.5	K. J. Suca
Tim. A	4.30	7.15		903255		2 75	The Green
Fursoll A	4.30	6:4	5	903206		2.25	lan-
SAVIA. C	11:30	7:00		903296		2.5	Maril Down
Legis H	11 30	745		931500		3.25	Zudli-
MANARICK .D	11:30	7:00	1	extra	·	2.5	11111111
JOB TYPE LONGS						NG SIZE & WEIGH	T =11/0 16 5
CASING DEPTH 112	16 - 26 DRILL I	PIPE	T	UBING	OTHE	R	
SLURRY WEIGHT 15	SLURR	Y VOL	W	/ATER gal/sk	CEME	ENT LEFT in CASIN	VGO
DISPLACEMENT_17	96 DISPLA	CEMENT P	SIM	IIX PSI	RATE	-16pm	
REMARKS:						•	
PAN 2 Sta	· Pr-mine	<u> </u>	: 4-4c, 5, 1fc	Ca. Inista	nod correct	hend P	tryete
ger fulla	d. by	<u>اطط (ر)</u>	die +	140 5KS	cf C-nio	11 to ge	+rypte
Sunface	Flustra	بن م نے	M. Peny	rod w goc	Plu. to	hotten?	t ret
Flint Sh	<u>, é</u>	<u> </u>			<u> </u>	····	<del></del>
•		·		·		· <del></del>	
			·	·			
	1126.	28	F+ 41/2	Casinsa.			
		5		2-75			
0/2129		h.		ocie 1		•	
930804	1.5	- 7/		la.lor	•		
ACCOUNT CODE	QUANTITY or L	INITS		DESCRIPTION OF SE	RVIÇES OR PRODUC	<b>T</b>	TOTAL AMOUNT
265288	٠ (	5 11	Foreman Pickup	•,			
901259			Cement Pump Truck				
903366			Bulk Truck	· · · · · · · · ·			
1104		305K	Portland Cement		· · · · · · · · · · · · · · · · · · ·		
1124	2			ement Free Pr		<u> # 3                                  </u>	
1126			OWC - Blend Ceme	nt リカ ル	parpluj		<del></del>
1110		<del></del>	Gilsonite		· · ·		
1107	1.4	5 5 K	Flo-Seal	<del></del>		· · · · · · · · · · · · · · · · · · ·	
1118		3 SK	Premium Gel KCL		· · · · · · · · · · · · · · · · · · ·		<del></del>
1215Å	1401	3 5K		alala la			
1111B 1123	7600 not	- ( )	City Water	olchlande			<del></del>
903296	MIL ANT	5 hr	Transport Truck				+
9321152			Transport Trailer			<del></del>	+
931500	3.5		80 Vac				
Rawin 4513				loat shoe			

## **POSTROCK**



# **Current Completion**

SPUD DATE : 2/21/2006 COMP DATE : 2/27/2006

API: 15-133-26483-00-00

WELL

: Spieker, Hugo 20-1

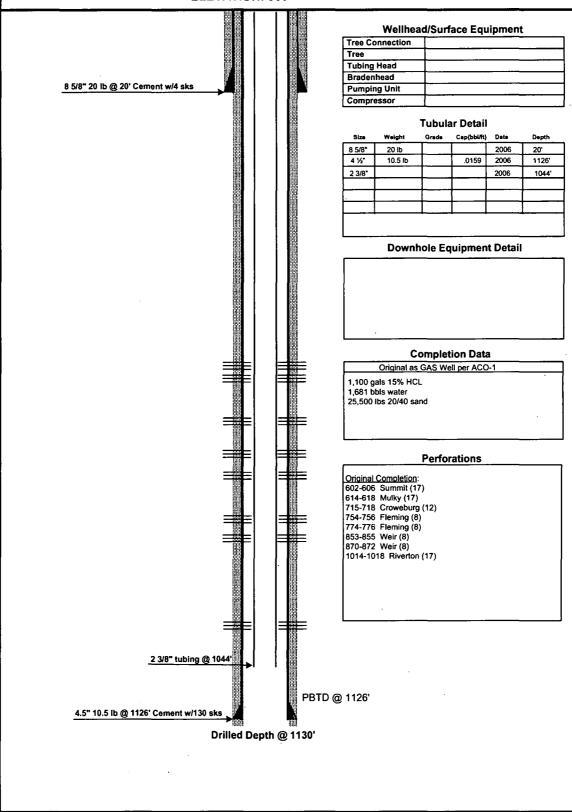
FIELD STATE : Cherokee Basin

COUNTY

: Kansas : Neosho

LOCATION: 20-28S-18E (SE,NE)

**ELEVATION: 950'** 



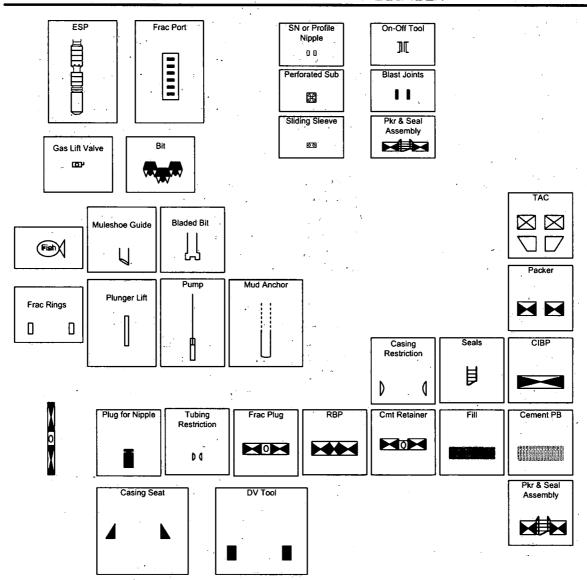
PREPARED BY:	POSTROCK	
APPROVED BY:		

# **POSTROCK**



LEGEND

PostRock



ŷ

# 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 Spieker, Hugo 20-1 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, Weir, Riverton and Cattleman producing formations at the Spieker, Hugo 20-1, loin the NESWSENE S20-T28S-R18E, Approximately 2216 FNL & 764 FEL, 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 ACCOM-PANY 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 uninterruptedly 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 newspaper for
, 2012, 2012
, 2012, 2012
Chorda Abwerte
Subscribed and sworn to and before me this
lle day of August 2012
Notery Public
My commission expires: January 9, 2015
Printer's Fee
Affidavit, Notary's Fee\$ 3.00
Additional Copies\$
Total Publication Fees\$ 73.21



#### **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 17th of

August 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.

Subscribed and sworn to before me this

17th day of August, 2012

PENNY L. CASE Notary Public - State of Kansa My Appt. Expires.

Notary Public Sedgwick County, Kansas

Printer's Fee: \$139.60

## LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE AUGUST 17, 2012 (3201720) BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

BEFORE THE STATE
CORPORATION COMMISSION
OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION
RE: In Ihe Maller of Postrock Midcontinent
Production, LLC Application for
Commingline of Production in the
Spieker, Hugo 20-1 located in Negation
County, Kansas.
TO AL OIL & Gas. Producers, Unleased
Mineral Inharest Owners, Landowners,
and 8il persons whomever concerned.
You, and each of you, are hereby solifled.
In Pestrock Midcontinent Production,
LLC has filled an application; to commingle
the Summin, Mulky, Craweburg, Filering,
Weir, Riverton and Cartisman producing
formations: at the Spieker, Hugo 20-1,
located in the NESWSENE S20-1235 R18E,
Approximately 216 FNL & 764 FEL, Neasho
County, Kensas.
Any persons who object to or protest
this application shall be required to file intersobjections or protest with the Conservation
Division of the State Corporation Commission
of the State Of Kansas within filtern (15)
days from the date of fils publication. These
protests shall be little dursuant to Commission
of the State Of Kansas within filtern (15)
days from the date of fils publication. These
protests shall be little dursuant to Commission
of the State Corporation may cause
waste, Violale correctioner for course
why granting the application may cause
waste, Violale correction of the State of Commission
regulations and must latel specific reasons
why granting the application may cause
waste, Violale correction of the State
and persons inference or concerned shall
take notice of the foregoing and shall govern
themselves accordingly. All person and for
compenies wishing to protest linis emplication
are required to file a written profest with the
Conservation Division of the Kensas Oil and
Gas Commission. Will be expected to enter an
supperance alther through proper liqual
counset or as Individuals; appearing on their
own behalf
Postrock Aldcontinent Production, LLC
110 Park Avenue, Sulte 1250

Postrock Midcontinent Production, LLC 210 Park Avenue, Suthe 2750 Oklahoma City, Oklahoma 73102 (405) 460-7704

# SPIEKER, HUGO 20-1

1 NAME & UPPE	R & LOWER LIMIT OF EACH P	RODUCTIO	N INTERVAL TO BE (	COMMING	LED			
FORMATION:	WEIR		(PERFS):	<u>853</u> -	855			
FORMATION:	WEIR	<u> </u>	(PERFS):	870 -	872			
FORMATION:	RIVERTON	<u> </u>	(PERFS):	1014 -	1018			
FORMATION:	CATTLEMAN		(PERFS):	789 -	795		. +	
FORMATION:			(PERFS):					
FORMATION:		<u> </u>	(PERFS):					
FORMATION:			(PERFS):				•	•
FORMATION:			(PERFS):	-				
FORMATION:			(PERFS):					
FORMATION:			(PERFS):					
FORMATION:			(PERFS):					
FORMATION:			(PERFS):					
2 ESTIMATED AN	MOUNT OF FLUID PRODUCTION WEIR	ON TO BE C	OMMINGLED FROM BOPD:		ERVAL MCFPD:	0.88	BWPD:	3.88
FORMATION:	WEIR	<del></del> _	BOPD:	. 0	MCFPD:	0.88	BWPD:	3.88
FORMATION:	RIVERTON		BOPD:	0	MCFPD:	0.88	BWPD:	3.88
FORMATION:	CATTLEMAN		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:	
FORMATION:		0	BOPD:		MCFPD:		BWPD:	
			· .		_	_		

Affidavit of Notice Served				
	MINGLING OF PRODUCTION OR FLUIDS ACO-4			
Well Name: SPIEKER, HUGO 20-1	Legal Location: NESWSENE S20-T28S-R18E			
The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day				
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 app	Dication.			
Name	Address (Attach additional sheets if necessary)			
WM R MCRAE	12433 N 71ST ST, SCOTTSDALE, AZ 85254			
MARK L MORRISON	1651 50TH RD, YATESCENTER, KS 66783			
HUGO SPIEKER	15575 ELK RD, CHANUTE, KS 66720			
TENNECO OIL COMPANY	7301 NW EXPRESSWAY, PO BOX 25420, OKLAHOMA CITY, OK 73125			
SEE ATTACHED				
I further attest that notice of the filling of this application was public	shed in the THE CHANUTE TRIBUNE , the official county publication			
of NEOSHO	county. A copy of the affidavit of this publication is attached.			
Signed thisday of _SEPTEMBER	2012			
	CHELL			
	Applicant or Duly Authorized Agent			
	d sworn to before me this			
JENNIFER R. BEAL MY COMMISSION EXPIRES	Notary Pyroje & Beal			
1-20-2016	My Commission Expires: Quely 20, 20/6			

#### 17-28S-18E

S2SE4

Daryl D & Julia A Dennis 4510 160TH RD Chanute, KS 66720

Garrett D Larue 16125 ELK RD Chanute, KS 66720

Jack R Cheyney 15775 IRVING RD Chanute, KS 66720

Richard N & Claudette J Dennis

16225 FORD RD Chanute, KS 66720

Ronald S & Rhonda J Larue

10435 170TH RD Chanute, KS 66720

## 16-28S-18E

per TO dtd 1.13.06

SW4SW4 (tract of 12.643 acres)

David Dean Hibbs and Carolyn Hibbs

16010 Elk Rd

Chanute, KS 66720

Rolland Dean Hibbs and Kathryn Evleen Hibbs

5120 160th Rd Chanute, KS 66720

Jerry L Fogle and Helen M Fogle

16100 Elk Rd Chanute, KS 66720

(4.3 acres)

(7.0 acres)

## 20-28S-18E

NE4NW4

(5 acre tract)

Earlton Cemetery

Chanute, KS 66720

SE4SW4 (portion) Jarold W & Marilyn S Henry

14385 Elk Rd

Chanute, KS 66720

Notes

(1.25 acres) \*acreage numbers pursuant page 2 of TO attached to e-mail

\*TO attached to e-mail for your reference

# SPIEKER, HUGO 20-1-APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS Offset Operators, Unleased Mineral Owners and Landowners acreage (Attach additional sheets if necessary) 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. day of SEPTEMBER Subscribed and sworn before me this JENNIFER R. BEAL MY COMMISSION EXPIRES

# SPIEKER, HUGO 20-1

LEGAL LOCATION	SPOT	CURR_OPERA
\$17-T28S-R18E	C S2 SE SE	McRae, Wm. R.
S17-T28S-R18E	SE SE	McRae, Wm. R.
S17-T28S-R18E	S2 SW SE	Morrison, Mark L.
S17-T28S-R18E	SE SW SE	Morrison, Mark L.
S17-T28S-R18E	S2 S2 S2 SE	Morrison, Mark L.
S17-T28S-R18E	SW SE SE	Morrison, Mark L.
S17-T28S-R18E	SW SE SW SE	Morrison, Mark L.
S20-T28S-R18E	NW NE	Spieker, Hugo
S20-T28S-R18E	NE NE NE NE	Spieker, Hugo
S20-T28S-R18E	NW SE NE NE	Spieker, Hugo
S20-T28S-R18E	SW NE NE NE	Spieker, Hugo
S20-T28S-R18E	NW SE NE NE	Spieker, Hugo
S21-T28S-R18E	SW NE NW NW	Tenneco Oil Company
S21-T28S-R18E	NE SW NW NW	Tenneco Oil Company

#### 17-28S-18E

Notes

S2SE4

Daryl D & Julia A Dennis 4510 160TH RD Chanute, KS 66720

**Garrett D Larue** 16125 ELK RD Chanute, KS 66720

Jack R Cheyney **15775 IRVING RD** Chanute, KS 66720

Richard N & Claudette J Dennis

16225 FORD RD Chanute, KS 66720

Ronald S & Rhonda J Larue

10435 170TH RD Chanute, KS 66720

#### 16-28S-18E

per TO dtd 1.13.06

SW4SW4 (tract of 12.643 acres) David Dean Hibbs and Carolyn Hibbs

16010 Elk Rd

Chanute, KS 66720

Rolland Dean Hibbs and Kathryn Evleen Hibbs

5120 160th Rd Chanute, KS 66720

Jerry L Fogle and Helen M Fogle

16100 Elk Rd Chanute, KS 66720

(1.25 acres) \*acreage numbers pursuant page 2 of TO attached to e-mail

(7.0 acres)

(4.3 acres)

#### 20-28S-18E

NE4NW4 (5 acre tract)

**Earlton Cemetery** 

Chanute, KS 66720

SE4SW4 (portion) Jarold W & Marilyn S Henry

14385 Elk Rd

Chanute, KS 66720

\*TO attached to e-mail for your reference

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/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner

September 25, 2012

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

RE: Approved Commingling CO091201

Spieker, Hugo 20-1, Sec. 20-T28S-R18E, Neosho County

API No. 15-133-26483-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on September 11, 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 CO091201 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