KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1089933

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 # CO091201

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 - 15-133-26483-00-00
Spot Description:
NE - SW - SE - NE Sec. 20 Twp. 28 S. R. 18 ☑ East ☐ West
2216 Feet from ☑ North / ☐ South Line of Section
764 Feet from ☑ East / ☐ West Line of Section
County: Neosho
Lease Name: SPIEKER HUGO Well #: 20-1

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

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

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

Formation:	SUMMIT	BOPD:	0	MCFPD:	.88	BWPD:	3.88
Formation:	MULKY	BOPD:	0	MCFPD:	.88	BWPD:	3.88
Formation:	CROWEBURG	BOPD:	0	MCFPD:	.88	BWPD:	3.88
Formation:	FLEMING	BOPD:	0	MCFPD:	.88	BWPD:	3.88
Formation:	FLEMING	BOPD:	0	MCFPD:	.88	BWPD:	3.88

☑ 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: 9/25/2012
Approved By: Rick Hestermann Date: 09/25/2012

Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed wihin 15 days of publication of the notice of application.

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

	A	B	C	D	E	F	G	H	I	J	K
1	Produced Fluids #		1	2	3	4	5		Click here to run SSP	Click	
2	Parameters	Units	Input	Input	Input	Input	Input				
3	Select the brines	Select fluid	☑	☑	☑	☑	☑	Mixed brine:		Click	
4	Sample ID	by checking						Cell H28 is			
5	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.	Goal Seek SSP	Click	
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			
7	Well Name		Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith	are used in		Click	
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines			
9	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.			
10	Na^+	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	SI/SR (Final-Initial)
11	K^+ (if not known =0)	(mg/l)						0.00	Saturation Index values		
12	Mg^{2+}	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite		
13	Ca^{2+}	(mg/l)	1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040.23	-0.73	-0.60	0.13
14	Sr^{2+}	(mg/l)						0.00	Barite		
15	Ba^{2+}	(mg/l)						0.00			
16	Fe^{2+}	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite		
17	Zn^{2+}	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb^{2+}	(mg/l)						0.00	Gypsum		
19	Cl^-	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00
20	SO_4^{2-}	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate		
21	F^-	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br^-	(mg/l)						0.00	Anhydrite		
23	SiO2	(mg/l) SiO2						0.00	-3.47	-3.36	0.12
24	HCO3 Alkalinity**	(mg/l as HCO3)	190.00	234.00	259.00	268.00	254.00	241.03	Celestite		
25	CO3 Alkalinity	(mg/l as CO3)									
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide		
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H3BO3						0.00	Zinc Sulfide		
29	TDS (Measured)	(mg/l)						72781			
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium fluoride		
31	CO_2 Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
32	H_2S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate		
33	Total H2Saq	(mgH2S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23
34	pH, measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)		
35	Choose one option to calculate SI?	0-CO2%+Alk, 1-pH+Alk, 2-CO2%+pH	0	0	0	0	0		Calcite	NTMP	
36	Gas/day(thousand cf/day)	(Mcf/D)						0	0.00	0.00	
37	Oil/Day	(B/D)	0	0	1	1	1	4	Barite	BHPMP	
38	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	
39	For mixed brines, enter values for temperatures and pressures in Cells (H40-H43)							(Enter H40-H43)	pH		
40	Initial T	(F)	66.0	71.0	70.0	41.0	49.0	60.0	5.69	5.60	
41	Final T	(F)	66.0	71.0	70.0	41.0	49.0	89.0	Viscosity (CentiPoise)		
42	Initial P	(psia)	25.0	25.0	25.0	25.0	25.0	25.0	1.196	0.826	
43	Final P	(psia)	25.0	25.0	25.0	25.0	25.0	120.0	Heat Capacity (cal/ml/^{0}C)		
44	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959	
45	API Oil Grav.	API grav.						30.00	Inhibitor needed (mg/L)		
46	Gas Sp.Grav.	Sp.Grav.						0.60	Gypsum	HDTMP	
47	MeOH/Day	(B/D)	0					0	0.00	0.00	
48	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP	
49	Conc. Multiplier								0.00	0.00	
50	H^+ (Strong acid) †	(N)									
51	OH^- (Strong base) †	(N)									
52	Quality Control Checks at STP:										
53	H_2S Gas	(%)									
54	Total H2Saq (STP)	(mgH2S/l)									
55	pH Calculated	(pH)									
56	PCO2 Calculated	(%)									
57	Alkalinity Caclulated	(mg/l) as HCO3									
58	ΣCations=	(equiv./l)									
59	ΣAnions=	(equiv./l)									
60	Calc TDS=	(mg/l)									

61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)				
62	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value	
63	Have ScaleSoftPitzer			2	BHPMP	°C	80	°F	176	
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m^3	100	ft^3	3,531	
65	If No, inhibitor # is:	4	#	4	DTPMP	m^3	100	bbl(42 US gal)	629	
66	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074	
67	1st inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194	
68	% of 1st inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193	
69	2nd inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bbl(42 US gal)	238	
70	Display act. coefs?	0	1-Yes;0-No	9	Average	Liters	10,000	bbl(42 US gal)	63	
71				10	Mixed					

Saturation Index Calculations

Champion Technologies, Inc.

(Based on the Tomson-Oddo Model)

Brine 1: Ward Feed Yard 34-1
Brine 2: Ward Feed Yard 4-1
Brine 3: Clinesmith 5-4
Brine 4: Clinesmith 1
Brine 5: Clinesmith 2

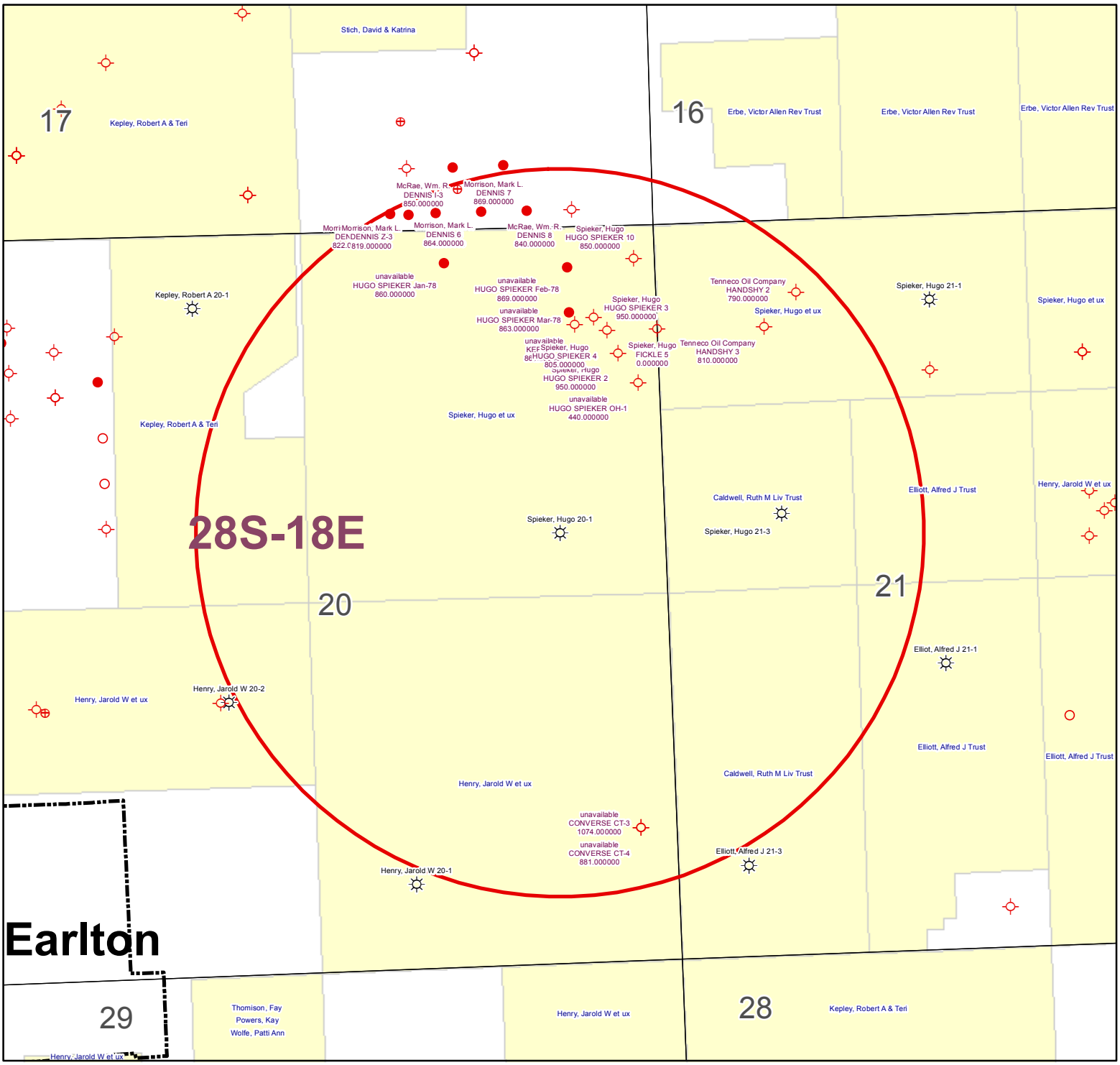
	Ratio					
Component (mg/L)	20% Brine 1	20% Brine 2	20% Brine 3	20% Brine 4	20 Brine 5	Mixed Brine
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO_2 in Brine	246	220	264	422	405	401
Ionic Strength	1.12	1.48	1.46	1.38	1.31	1.31
Temperature (°F)	89	89	89	89	89	89
Pressure (psia)	50	50	120	120	120	119

Saturation Index

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

PTB

Calcite	N/A	N/A	N/A	N/A	N/A	N/A
Gypsum	N/A	N/A	N/A	N/A	N/A	N/A
Hemihydrate	N/A	N/A	N/A	N/A	N/A	N/A
Anhydrite	N/A	N/A	N/A	N/A	N/A	N/A
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A



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
JUN 20 2006
CONSERVATION DIVISION
WICHITA, KS

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: Gary Laswell
Phone: (620) 431-9500
Contractor: Name: Well Refined Drilling Company, inc
License: 33072
Wellsite Geologist: n/a

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. ____

2/21/06	2/22/06	2/27/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 133-26483-0000
County: Neosho
__ - __ - se - ne Sec. 20 Twp. 28 S. R. 18 ☑ East ☐ West
1980 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: Spieker, Hugo Well #: 20-1
Field Name: Cherokee Basin CBM
Producing Formation: Multiple
Elevation: Ground: 950 Kelly Bushing: n/a
Total Depth: 1130 Plug Back Total Depth: 1126.28
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set ____ Feet
If Alternate II completion, cement circulated from 1126.28
feet depth to surface w/ 130 sx cmt.
Alt 2 - Dlg - 11/10/08

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: [signature]
Title: Head of Operations Date: 6/19/06
Subscribed and sworn to before me this 19th day of June, 20 06.
Notary Public: Jennifer R. Ammann
Date Commission Expires: July 30, 2009

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

KCC Office Use ONLY
N Letter of Confidentiality Received
If Denied, Yes ☐ Date: ____
____ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

✓

Side Two

Operator Name: Quest Cherokee, LLC Lease Name: Spieker, Hugo Well #: 20-1

Sec. 20 Twp. 28 S. R. 18 ☑ 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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No
(Submit Copy)

List All E. Logs Run:

Comp. Density/Neutron Log
Dual Induction Log

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

Name Top Datum
See Attached

CASING RECORD ☐ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	20#	20	"A"	4	
Production	6-3/4"	4-1/2"	10.5#	1126.28	"A"	130	

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	1014-1018/853-855/870-872/754-756/774-776/715-718	200gal 15% HCL w/ 22 bbls 2% kcl water, 540bbls water w/ 2% KCL, Blockle 4200# 20/40 sand	1014-1018
4	614-618/602-606		
		500gal 15% HCL w/ 38 bbls 2% kcl water, 625bbls water w/ 2% KCL, Blockle 14000# 20/40 sand	853-855/870-872
		754-756	774-776/715-718
		400gal 15% HCL w/ 48 bbls 2% kcl water, 518bbls water w/ 2% KCL, Blockle 7300# 20/40 sand	614-618/602-606

TUBING RECORD Size	Set At	Packer At	Liner Run
2-3/8"	1044	n/a	☐ Yes ☑ No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method
4/17/06	☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	n/a	26.5mcf	78.8bbls		

Disposition of Gas METHOD OF COMPLETION Production Interval

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

☐ Open Hole ☑ Perf. ☐ Dually Comp. ☐ Commingled _____
☐ Other *(Specify)* _____

QUEST
Resource Corporation

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

RECEIVED
KANSAS CORPORATION COMMISSION
JUN 2 0 2006
CONSERVATION DIVISION
WICHITA, KS

TICKET NUMBER 1255
FIELD TICKET REF # _____
FOREMAN Joe

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2.27.06	Tieber Hugo 20-1	20	28	18	NO

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe . D	11:30	7:00		903388		2.	
Tim . A	4.30	7.15		903255		2 75	
Russell . A	4:30	6:45		903206		2.25	
David . C	11 30	7:00		903296		2.5	
Leon . H	11:30	745		931500		3.25	
MAverick . D	11:30	7:00		extra		2.5	

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1130 CASING SIZE & WEIGHT 4 1/2 10.5
CASING DEPTH 1126.28 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
DISPLACEMENT 17.96 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4bpm

REMARKS:
Ran 25ks premagel sweep to surface. Installed cement head Ran 15k premagel followed by 12 bbl dye + 140 SKS of cement to get dye to surface. Flushed pump. Pumped wiper Plug to bottom + set Float shoe

	1126.28	Ft 4 1/2 casing
	5	Centralizers
902139	1.5 hr	Cement truck
930804	1.5 hr	Cement trailer

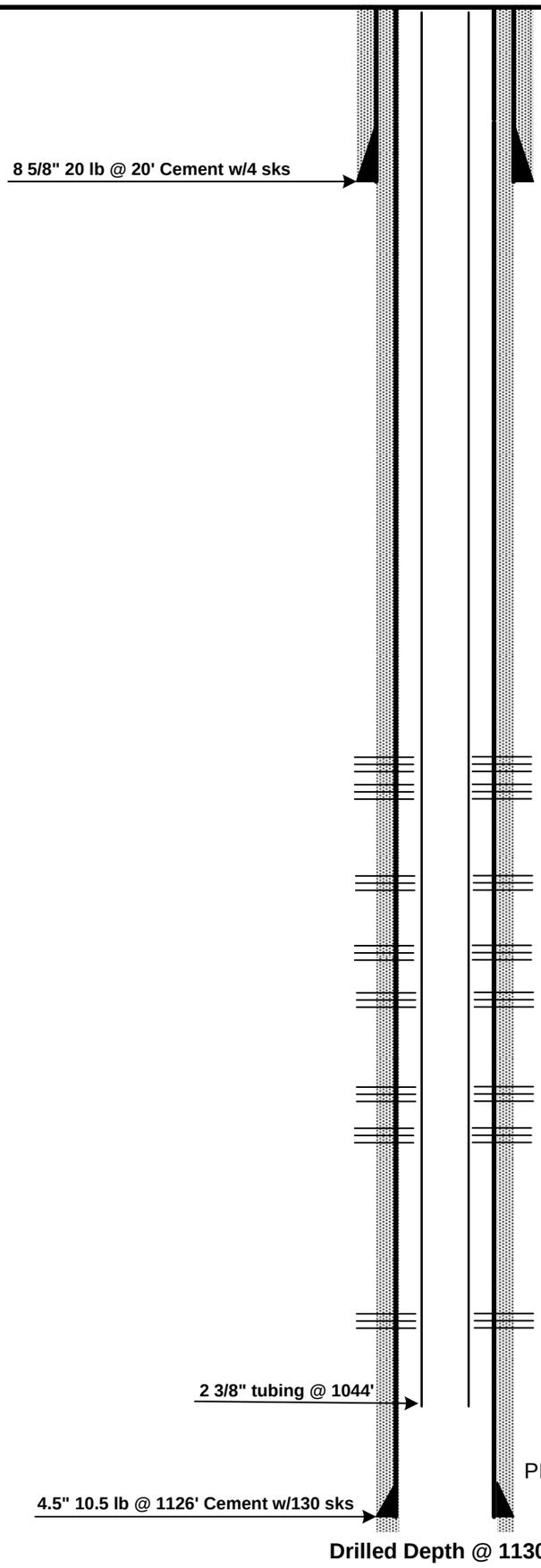
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903388	2.5 hr	Foreman Pickup	
903255	2.75 hr	Cement Pump Truck	
903206	2.25 hr	Bulk Truck	
1104	130 SK	Portland Cement	
1124	2	50/50 POZ Blend Cement Four Baffles 3 1/2 # 3	
1126	1	OWC - Blend Cement 4 1/2 wiper plug	
1110	14 SK	Gilsonite	
1107	1 SK	Flo-Seal	
1118	3 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	Sodium Silicate Calchloride	
1123	7000 gal	City Water	
903296	2.5 hr	Transport Truck	
932152	2.5 hr	Transport Trailer	
931500	3.25 hr	80 Vac	
Ravin 4513	1	4 1/2 Float Shoe	

POSTROCK	PostRock	Current Completion

WELL : Spieker, Hugo 20-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Neosho

SPUD DATE : 2/21/2006
COMP DATE : 2/27/2006
API: 15-133-26483-00-00

LOCATION: 20-28S-18E (SE,NE)
ELEVATION: 950'



Wellhead/Surface Equipment

Tree Connection	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

Tubular Detail

Size	Weight	Grade	Cap(bbl/ft)	Date	Depth
8 5/8"	20 lb			2006	20'
4 ½"	10.5 lb		.0159	2006	1126'
2 3/8"				2006	1044'

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1

1,100 gals 15% HCL
1,681 bbls water
25,500 lbs 20/40 sand

Perforations

Original Completion:
602-606 Summit (17)
614-618 Mulky (17)
715-718 Croweburg (12)
754-756 Fleming (8)
774-776 Fleming (8)
853-855 Weir (8)
870-872 Weir (8)
1014-1018 Riverton (17)

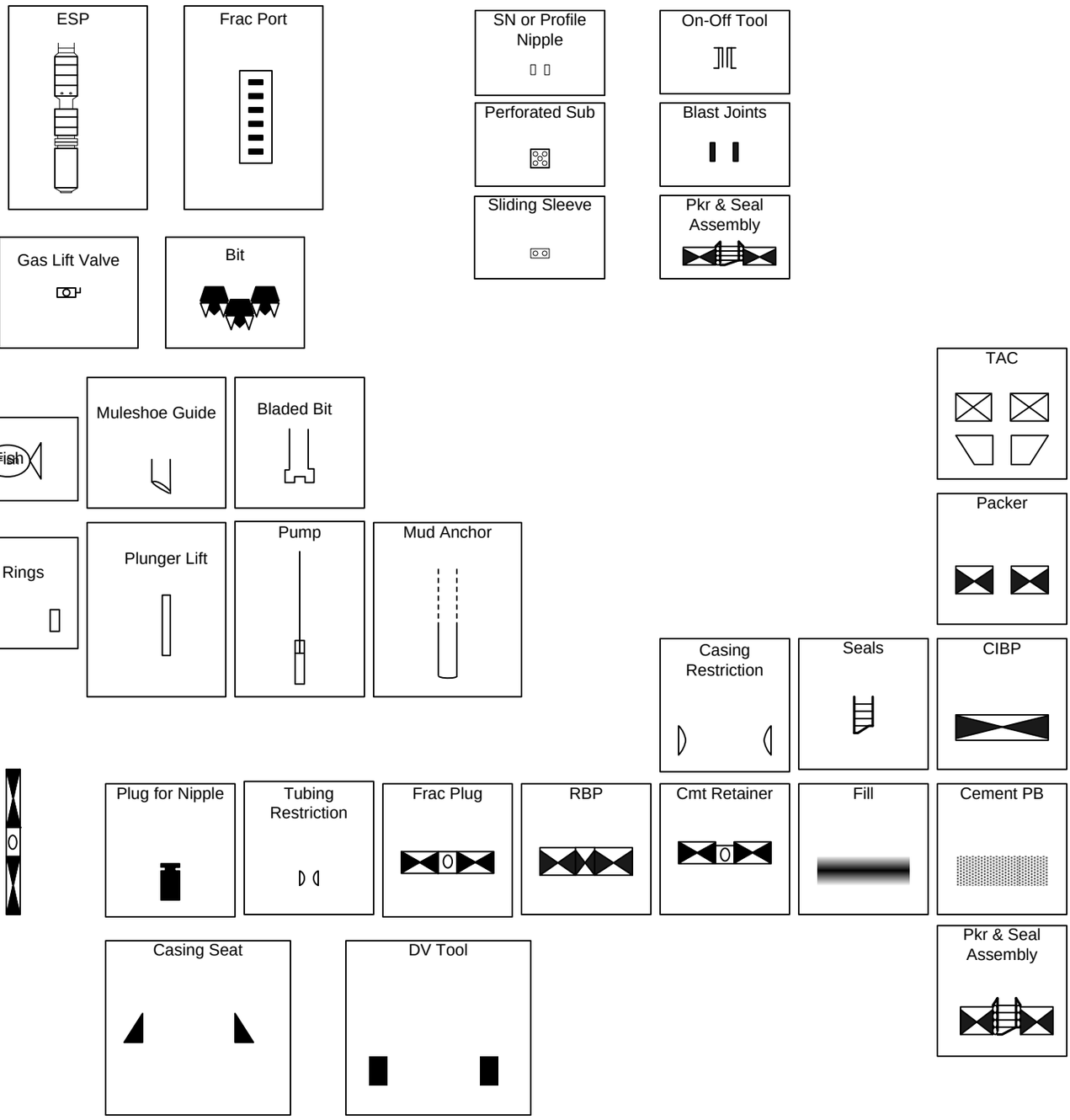
PREPARED BY: POSTROCK **DATE:** July, 2012

APPROVED BY: _____ **DATE:** _____

POSTROCK

PostRock

LEGEND



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,** located in 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 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 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 1 ~~consecutive~~ time, the first publication thereof being made as aforesaid on the 16 day of August 2012, with subsequent publications being made on the following dates:

_____, 2012 _____, 2012

_____, 2012 _____, 2012

Rhonda Howerter

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

Notary Public

My commission expires: January 9, 2015

Printer's Fee ..... $ 70.21
Affidavit, Notary's Fee ..... $ 3.00
Additional Copies ..... $ _____
Total Publication Fees ..... $ 73.21

SHANNA L. GUIOT
Notary Public - State of Kansas
My Appt. Expires 1-9-15

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.

Mark Fletchall

Subscribed and sworn to before me this

17th day of August, 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 : **$139.60**

LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE
AUGUST 17, 2012 (3201720)
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,** located in the **NESWSENE S20-T28S-R18E, Approximately 2216 FNL & 764 FEL, Neosho** County, Kansas.

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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

SPIEKER, HUGO 20-1

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

FORMATION:	WEIR	(PERFS):	853	-	855
FORMATION:	WEIR	(PERFS):	870	-	872
FORMATION:	RIVERTON	(PERFS):	1014	-	1018
FORMATION:	CATTLEMAN	(PERFS):	789	-	795
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:	WEIR	BOPD:	0	MCFPD:	0.88	BWPD:	3.88
FORMATION:	WEIR	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

Re: Application for: APPLICATION FOR COMMINGLING 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 10th of SEPTEMBER, 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)*
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 filing of this application was published in the THE CHANUTE TRIBUNE, the official county publication of NEOSHO county. A copy of the affidavit of this publication is attached.

Signed this 10th day of SEPTEMBER, 2012

Applicant or Duly Authorized Agent

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

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

Notary Public

My Commission Expires: July 20, 2014

SPIEKER, HUGO 20-1

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	(1.25 acres)	**acreage numbers pursuant page 2 of TO attached to e-mail*
	Rolland Dean Hibbs and Kathryn Evleen Hibbs 5120 160th Rd Chanute, KS 66720	(7.0 acres)	
	Jerry L Fogle and Helen M Fogle 16100 Elk Rd Chanute, KS 66720	(4.3 acres)	

20-28S-18E

NE4NW4 (5 acre tract)	Earlton Cemetery Chanute, KS 66720	**TO attached to e-mail for your reference*
SE4SW4 (portion)	Jarold W & Marilyn S Henry 14385 Elk Rd Chanute, KS 66720	

SPIEKER, HUGO 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:
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 10th day of SEPTEMBER, 2012

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

Notary Public

My Commission Expires: July 20, 2016

SPIEKER, HUGO 20-1

LEGAL LOCATION	SPOT	CURR_OPERA
S17-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**

SPIEKER, HUGO 20-1

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

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16225 FORD RD
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16-28S-18E

per TO dtd 1.13.06

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	Rolland Dean Hibbs and Kathryn Evleen Hibbs 5120 160th Rd Chanute, KS 66720	(7.0 acres)	
	Jerry L Fogle and Helen M Fogle 16100 Elk Rd Chanute, KS 66720	(4.3 acres)	

20-28S-18E

NE4NW4 (5 acre tract)	Earlton Cemetery Chanute, KS 66720	**TO attached to e-mail for your reference*
SE4SW4 (portion)	Jarold W & Marilyn S Henry 14385 Elk Rd Chanute, KS 66720	

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/

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