

Kansas Corporation Commission Oil & Gas Conservation Division

1084868

Form ACO-4 Form must be typed March 2009

APPLICATION FOR COMMINGLING OF Commingling ID # CO061213 PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License # 33343 API No. 15 - 15-133-25718-00-00	
Name: PostRock Midcontinent Production LLC Spot Description:	
Address 1: Oklahoma Tower SE SE NW NW Sec. 2 Twp. 29 S. R. 18	ast West
Address 2: 210 Park Ave, Ste 2750 1103 Feet from North / South Lin	
City: OKLAHOMA CITY State: OK Zip: 73102 + 1085 Feet from Feet from East / V West Lin	
Contact Person: CLARK EDWARDS County: Neosho	
Phone: (620) 432-4200 Lease Name: MARION BAILEY 2 Well #: 2	
1. Name and upper and lower limit of each production interval to be commingled:	
Formation: RIVERTON (Perfs): 945-949	
Formation: ROWE (Perfs): 890-892	
Formation: ROWE (Perfs): 886-889	
Formation: WEIR	-
Formation: CROWEBURG (Perfs): 634-638	
2. Estimated amount of fluid production to be commingled from each interval:	74
Formation: RIVERTON BOPD: $\frac{0}{0}$ MCFPD: $\frac{6.43}{6.43}$ BWPD: $\frac{5}{5}$	71
Formation: ROWE BOPD: 0 MCFPD: 6.43 BWPD: 5	74
Formation: WOVVE BOPD: BOPD: BVPD: BVPD:	.71
Formation: WEIR BOPD: 0 MCFPD: 6.43 BWPD: 5	.71
Formation: CROWEBURG BOPD: 0 MCFPD: 6.43 BWPD: 5	.71
 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 the subject well, and for each well the names and addresses of the lessee of record or operator. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a. 	radius of
For Commingling of PRODUCTION ONLY, include the following:	
5. Wireline log of subject well. Previously Filed with ACO-1: Ves 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.	
• The state of the	
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 Protests may be filed by any party having a valid interest in the application. Pr	otests must be
in writing and comply with K.A.R. 82-3-135b and must be filed wihin 15 days of the notice of application.	
15-Day Periods Ends: 7/10/2012	
Approved By: Rick Hestermann Date: 07/10/2012	



Wellbore Schematic

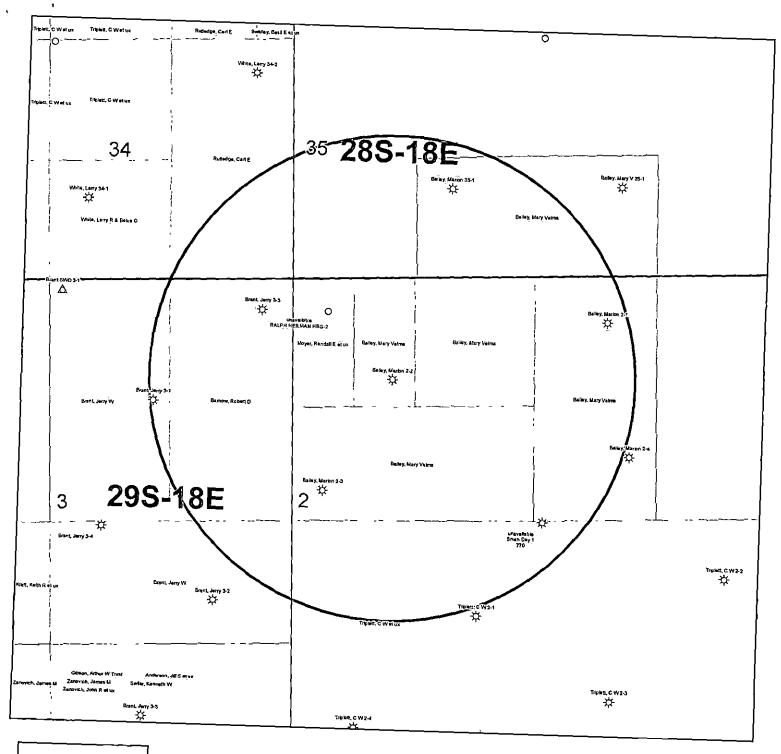
TOC - Surface

WELL: Bailey, Marion 2-2

API: 15-133-25718 LOCATION: SW NE Sec. 2 29S-18E

COUNTY: Neosho

STATE: Kansas 8.625" 13# J-55 @ 22' 5.5" 14# WC-50 @ 1062' Original Perfs: 5/15/02 8.625" 32# J-55 @ 22' 4 sks cement - Riverton 945-949' (17) - Rowe 890-892' (9) - Rowe 886-889' (13) - Weir 674-678' (17) - Croweburg 634-638' (17) - Mulky 531-535' (17) - Summit 519-522' (17) Spud Date: 2/21/02 Riverton Completion: 5/7/02 - 500 gal HCl - 7,500# 20/40 - 569 bbls H2O - 14 BPM Rowe/Croweburg Completion: 5/14/02 - Treated in 2 stages, volumes not seperated by stage, just total for day - ? Gais HCI - 8.600# 20/40 - 814 bbls H2O - 12 BPM Rowe, 16 BPM Croweburg Summit/Mulky Completion: ? - No notes of completion, just perfs 5.5" 14# WC-50 @ 1062' 155 sks cement TD - 1065'



KGS STATUS

- → DA/PA
- ⊕ EOR
- ☆ GAS
- △ INJ/SWD
- OIL
- ★ OIL/GAS
- OTHER

Bailey, Marion 2-2 2-29S-18E 1" = 1,000'

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 Balley, Marion 2-2 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 Riverton, Rowe, Welt, Croweburg, Mulky, Summit and Cattleman producing formations at the Balley, Marton 2-2, located in the SE SE NW NW, S2-T29S-R18E, Approximately 1103 FNL & 1085 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 of Comcommission of the State of Kamsas within fiftoon (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 of 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 __ meendo time, the first publication thereof being made as aforesaid on the <u>Mo</u> day of 2012, with subsequent publications being made on the following dates: 2012 2012 2012 Subscribed and sworn to and before me this 19 day of June Public My commission expires: January 9, 2015 Printer's Fee\$ 69.18 Affidavit, Notary's Fee \$ 3.00 Additional Copies\$ Total Publication Fees \$ 72

SHANNA L. GUIOT

State of Kansas

My Appt. Expires 1-9-15



Specific Well--15-133-25718

ACO-1

Kansas Corporation Commission Oil & Gas Conservation Division

Fernaco-1 Crit psychet Sern Mass Da Typed

WELL COMPLETION FORM
WALL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License #, 32845	APINO 15 . 133-25718
Name: Deven SFS Operating Inc.	County Neostro
Address: 20 North Broadway, Suite 1500	Sus Su AE NW Soc 2 Tap 20 5 R 18 PESSI WES
Citristatoras Oktohomo City, OK 73102-0250	1100 bel from S (P) during energ Line of Section
Panthason: Toll Grass, LLC	1100 lost from E (Crisos ane) Linu of Section
Consists Control Person Robert Colo	Footages Calculated from Nearest Outside Section Corner:
Phone: (405_) 235-3611	tologrand NE SE MY SW
Contractor: Hame: MOKAT Drift	Lease Home: Marion Balloy 2 Wan s. 2
Hrenne W5831	Field Harro:
Wellsko Occoopts David Fleming	Productor Formation Riverton Cool
Designate Type of Completios:	Elevation: Ground: 924 ft. Kelly Bushing:
V flor Viel	Yatah Dooth, 1,085 ft. Plug Back Yatah Bopter, 1,055 ft.
OUSYYDSXXYYAMO, Abd.	Arrount of Statista Pico Sol and Comunited at 22 Foot
Cos EDER STOW	Mulipio Singo Comenting Collar Uses? This Milito
Ony Other (Corp. WSN, Expl., Cathodic, etc)	Hyes, show depth act management and the Foot
(I Northweel Re-unity: CM Well Info as follows:	HAllounds II completion, coment characted from Surface
Operator:	feet depth to 1,062 ft. or 165
V/oB)Tame:	
Original Const. Cata Original Total Depth	Orkling Field Management Plan Art III Toffer (One months common domain Reserve FE) Co 7 7 7 7
Deopting Re-per Core, to EndurSND	Cateride contont N/A ppm Faild votume N/A bble
Plug Back Plug Back Total Dopth	Devotating method used
Comminged Docket Ho.	
Draf Completion	Localisa of Did disposal if hauled effske;
Other (CWD or Entry) Doctot No	Operator Harmas
2/21/02\$pudDate 2/25/02-TD 6/1/02	Leoso Namo:Lleoso No:
Sped Date of Date Reached TD Completion Date or	Outstor Sot
Recompletion Date Recompletion Date	Ceverty: Docket Ho:
•	}
Kansas 67202, which 120 days of the spud dale, recomposion, worker information of side two of this tore will be held co-fidential for a posted of	h the Kanzes Corporation Commission, 120 G. Market • Room 2070, Wichite, or or concusion of a writ. Rule 82-0-124, 82-3-106 and 82-3-107 apply IZ mortina it expressed in writing and selected with this form (soe one 82-3- oned geologist waterpare shall be offsethed with this form. ALL CENTENTING). Submit CP-111 form with 03 Respectify ebsected wells.
An equisomorph of the scholes, rules and engulations promobaled to reput	ris the oil and gas industry have been fully compiled with and the statements
bors in the ecopate and expect to the best of by Brownedge.	
Sported and the	KCC Office Use ONLY
THY 2 MM PM 2 DOIG 6/19/02	Deng Letter of Confidentially Allacted
	HONOR YES MONIO 6-26-02
Subscribed and email to be come mo this 10 day of 91414	X_ Y/Isaline Log Ricelyed
The state of the s	Geologist Report Reselved
HOLAND PURE LANGE L. MOT	
Date Commission Barines: (SEAL) Oklahoma C	
State of Chia	homa j
My commission capters 7-5	

Operáte Name: De	ryon SFS Operati	ing Inc.	Ecoso Namo	Marion Bello	y 2	W03 P: 2	
•		Pleas (TWGs)	County: No			- 1,000 01	
EXSTRUCTIONS: 5 techno, lime tool ope temperature, Evid re	how important tops on a and crosed, Dowley covery, and Eaw rate	and base of francions in the last seed of the last seed o	ponetrated. Dofail , whether stricted, dieng with thin och	eli coros. Rogari 1055:110 (2000 00	static lavel, hydro	Maio protou	res, bolicos holo
Dett Storn Tests Take		∏Yes ØHo	-		on (70p). Depair	nd Dalvm	☑ Sample
Samples Son) to Ge	chogical Europy	∏Yes ∰Ho	Ha	TOG .	V éloth		
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Purpose (457)	District	\$41(400)	LAL/FL	Onto	Type of Common	tred	Addition
Surface	11"	8 6/8"	32 9//1	22"	Ponland	4	попе
Production	7 7/8'	6 1/21	14 0/1	1,062	GW	155	ThickSol
	ral verreamment		J		L	L	J
Papere:	Depth Reptiction	horeftened	LCENENTHO 180	OTEZE DICOMO		KOIN AGSEME	3
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4 301	945'-918'-Riveru	on Coal		600 gl.FeHC	7,Frac24,000g	1,7500H2Q	40\$d.
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TVSNS RECORD	Gze VB	Solai D81'-EOT I	Packer Al	Liner Run	Iro Pin		
	FACTURE, SYD OF EA	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		<u></u>			or (Kashaja)
Etimaled Production Per 24 Hours	N/A	BNA Gos 151 Melei	160 Wa	er ut bbis.	6 G:	is-OlRite	Gravity N/A
Disoy Gangli Gas	12110001C		1	frodución imen		·····	1474
Morted Mose	[]Usedon Losse and ACO-18]	Dominista		Owy Comp	Conninges		

$\overline{}$	Α [В	С	D	E	F	G	H		J	K
1	Produced Fluids #		1	2	3	4	5			•	•
2	Parameters	Units	Input	Input	Input	Input	Input		Click he	re	Click
3	Select the brines	Select fluid						Mixed brine:	to run S		
_		by checking						Cell H28 is			Click
_		the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.			
		Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells 1135-38			Click
$\overline{}$	Well Name Location		Ward Feed #34-1	Ward Feed #4-1	Clinesmith #5-4	Clinesmith #1	Clinesmith #2	are used in mixed brines	Goal Seek	SSP	
_	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.			Click
_	Na*	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	1
``			17,433.00	27,381.00	20,554.00	23069,00	24220.00		` ,	· · ·	SI/SR
	K ⁺ (if not known =0)	(mg/l)		_	<u>.</u>						(Final-Initia
	Mg ²⁺	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91		Icite .	ļ
	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
	Sr ²⁺	(mg/l)						0.00	Ba	rite	<u> </u>
	Ba ²⁺	(mg/l)						0.00		,	
	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Н:	dite	
17	Zn ²⁺	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb ²⁺	(mg/l)						0.00	Gy	psum	
_	CI.	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00
	SO ₄ ² ·	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40		hydrate	Ī
21	r	(mg/l)						0.00	-3.96	+3.90	0.06
	Br.	(mg/l)						0.00		ydrite	0.00
	SiO2	(mg/l) SiO2						0.00	-3.47	-3.36	0.12
	HCO3 Alkalinity**	(mg/l as HCO3)	190.00	234.00	259.00	268.00	254.00	241.03		estite	0.12
			190.00	234.00	259.00	268.00	254.00	241.03	Cei	estite	
_	CO3 Alkalinity	(mg/l as CO3)						 , . -		<u> </u>	+
$\overline{}$	Carboxylic acids**	(mg/l)						0.00		Sulfide I 0.22	201
-	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
-	Borate	(mg/L) H3BO3	ļ——					0.00	Zinc	Sulfide	-├
$\overline{}$	TDS (Measured)	(mg/l)	ļ					72781	_		
	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1,048	1,045	1.047	Calciun	n fluoride	_
_	CO ₂ Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16		<u> </u>	4
-	H ₂ S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269		arbonate	
	Total H2Saq	(mgH2S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51 ceded (mg/L)	0.23
34	pH, measured (STP)	pH U-CO2%+Alk,	5.67	5,76	5.72	5.54	5.55	5,63	Calcite	NTMP	-
	Choose one option								Carcile	NIME.	
35	to calculate SI?	2-CO2%+pH	0	0	0	o	0				
36	Gas/day(thousand cf/day)	(Mcf/D)			_			0	0.00	0,00	
	Oil/Day	(B/D)	0	0	1	1	1	4	Barite	внрмр]
	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	4
	For mixed brines, enter valuation T	ues for tempera (F)	tures and pressi	res in Cells (H	40-H43) 70,0	41.0	49.0	(Enter H40-H43) 60.0	5.69	5.60	-
	Final T	(F)	66,0	71.0	70.0	41.0	49.0	89.0		(CentiPoise)	-
	Initial P	(psia)	25.0	25.0	25.0	25.0	25.0	25.0	1.196	0.826	-
_	Final P	(psia)									
				25.0	25.0	25.0	25.0			ity (cal/ml/°C)	
	OSE IF OII CAICHE SHEELI	1-Yes:0-No	25.0	25.0	25.0	25.0	25.0	120.0		ity (cal/ml/°C) 0.959	
45	API Oil Grav.		25.0	25.0	25.0	25.0	25.0		Heat Capac 0.955		
46	API Oil Grav. Gas Sp.Grav.	1-Yes;0-No API grav. Sp.Grav.		25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum	0.959 ceded (mg/L) HDTMP	
46 47	API Oil Grav. Gas Sp.Grav. MeOH/Day	1-Yes;0-No API grav. Sp.Grav. (B/D)	0	25.0	25.0	25.0	25.0	120.0 30.00	Heat Capac 0.955 Inhibitor n Gypsum 0.00	0.959 ceded (mg/L) HDTMP 0.00	
46 47 48	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day	1-Yes;0-No API grav. Sp.Grav.		25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D)	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00	0.959 ceded (mg/L) HDTMP 0.00	
46 47 48 49 50	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) *	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N)	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) *	1-Yes; 0-No API grav. Sp. Grav. (B/D) (B/D) (N) (N)	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) † Quality Control Checks at \$	1-Yes; 0-No API grav. Sp. Grav. (B/D) (B/D) (N) (N) STP:	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) † Quality Control Checks at Sh ₂ S Gas	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP:	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) * Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated	I-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2SA) (pH)	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) * Quality Control Checks at S H ₂ S Gas Total H2Snq (STP) pH Calculated PCO2 Calculated	I-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (ngH2S/I) (pH) (%)	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Cone. Multiplier H* (Strong acid) * Oil* (Strong base) * Quality Control Checks at \$ H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated	I-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) STP: (%) (mgH2S/I) (pH) (mg/I) as HCO3	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) * Quality Control Checks at S H ₂ S Gas Total H2Snq (STP) pH Calculated PCO2 Calculated	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/l) (pH) (mg/l) as HCO3 (cquiv./l)	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59	API Oil Grav. Gas Sp.Grav. MeOH/Day MIEG/Day Conc. Multiplier H* (Strong acid)* OH* (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 2Cations=	I-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) STP: (%) (mgH2S/I) (pH) (mg/I) as HCO3	0	25.0	25.0	25.0	25.0	120.0 30.00 0.60	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) * Quality Control Checks at \$ H_S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (cquiv./I) (equiv./I) Input	0	#	Inhibitor	Unit Converte	r (From metric	120.0 30.00 0.60 0 0	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid)* Oif (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time	I-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (mg/I) as HCO3 (cquiv.I) (equiv.I) (mg/I)	0 0	# 1	Inhibitor	Unit Converte From Unit	r (From metric Value	120.0 30.00 0.60 0 0	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrise 0.00	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	API Oil Grav. Gas Sp.Grav. MeOH/Day MIEG/Day Conc. Multiplier H* (Strong acid)* OIF (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ZCations= ZAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (cquiv./I) (equiv./I) Input	Unit min	# 1 2	Inhibitor NTMP BHPMP	Unit Converter From Unit	r (From metric Value 80	120.0 30,00 0.60 0 0 10 to English) To Unit	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00 Value 176	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid)* Oif (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time	1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (cquiv./I) (equiv./I) Input	Unit	# 1	Inhibitor NTMP BHPMP PAA	Unit Converte From Unit °C m³	r (From metric Value	120.0 30.00 0.60 0 0	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrise 0.00	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong base) * Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, Inhibitor # is:	I-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/l) (pH) (%) (mg/l) st HCO3 (equiv./l) (equiv./l) (mg/l) Input 120	Unit min	# 1 2 3 4	Inhibitor NTMP BHPMP PAA DTPMP	Unit Converte From Unit °C m³ m³	r (From metric Value 80 100	120.0 30.00 0.60 0 0 10 10 10 10 10 10 10 10 10 10 10 1	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00 Value 176 3,531 629	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid)* OH (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECatlons= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, Inhibitor # is: If you select Mixed,	I-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/l) (equiv./l) (equiv./l) (mg/l) Input 120 1	Unit min	# 1 2 3 4 5	Inhibitor NTMP BHPMP PAA DTPMP PPCA	Unit Converte From Unit °C m³ MPa	F (From metric Value 80 100 100 1,000	120.0 30.00 0.60 0 0 10 English) To Unit °F ft ³	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00 Value 176 3,531 629 145,074	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid)* OH* (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated ECations= ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, Inhibitor # is: If you select Mixed, I** Inhibitor # is:	I-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/l) (mgH2S/l) (equiv./l) (equiv./l) (equiv./l) 1 1 4	Unit min	# 1 2 3 4	Inhibitor NTMP BHPMP PPAA DTPMP PPCA SPA	Unit Converte From Unit °C m³ m³	r (From metric Value 80 100	120.0 30.00 0.60 0 0 10 10 10 10 10 10 10 10 10 10 10 1	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00 Value 176 3,531 629	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid)* Oil* (Strong hase)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoll*itzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed, I* inhibitor # is: Select Mixed, I* inhibitor is:	I-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/l) (equiv./l) (equiv./l) (mg/l) Input 120 1	Unit min	# 1 2 3 4 5	Inhibitor NTMP BHPMP PAA DTPMP PPCA	Unit Converte From Unit °C m³ MPa	F (From metric Value 80 100 100 1,000	120.0 30,00 0.60 0 0 10 10 10 10 10 10 10 10 10 10 10 1	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00 Value 176 3,531 629 145,074	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
46 47 48 49 50 51 52 53 54 55 56 67 68 69	API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid)* OH* (Strong base)* Quality Control Checks at S H ₂ S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated ECations= ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, Inhibitor # is: If you select Mixed, I** Inhibitor # is:	I-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/l) (mgH2S/l) (equiv./l) (equiv./l) (equiv./l) 1 1 4	Unit min 1-Yes;0-No #	# 1 2 3 4 5	Inhibitor NTMP BHPMP PPAA DTPMP PPCA SPA	Unit Converter From Unit °C m³ MPa Bar	F (From metric Value 80 100 1,000 496	120.0 30,00 0.60 0 0 0 10 To Unit °F R³ bbl(42 US gal) psin psin	Heat Capac 0.955 Inhibitor n Gypsum 0.00 Anhydrite 0.00 Value 176 3,531 629 145,074 7,194	0.959 ceded (mg/L) HDTMP 0.00 HDTMP	

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			
	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 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

1 NAME & UPPE	R & LOWER LIMIT OF EACH PRODU	CTION INTERVAL TO BE O	OMMING	LED			
FORMATION:	MULKY	(PERFS):	531 -	535			
FORMATION:	SUMMITT	(PERFS):	519 -	522			
FORMATION:	CATTLEMAN	(PERFS):	703 -	708			
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):		·			
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
2 ESTIMATED AN	MOUNT OF FLUID PRODUCTION TO	BE COMMINGLED FROM	EACH INT	ERVAL			
FORMATION:	MULKY	BOPD:	0	MCFPD:	6.43	BWPD:	5.71
FORMATION:	SUMMITT	BOPD:	0	MCFPD:	6.43	BWPD:	5.71
FORMATION:	CATTLEMAN	BOPD:	3	MCFPD:	0	BWPD:	20
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
FORMATION:		BOPD:		MCFPD:		BWPD:	
		0.000		*****			
FORMATION:		BOPD:		MCFPD:	<u>-</u>	BWPD:	

Affidavit of Notice Served	
Re: Application for: APPLICATION FOR COMMINGL	
Well Name: BAILEY, MARION 2-2	Legal Location: SESENWNW S2-T29S-R18E
The undersigned hereby certificates that he I she is a duly authorized age	ent for the applicant, and that on the day 25TH of JUNE .
2012 , a true and correct copy of the application reference	ed above was delivered or mailed to the following parties:
Note: A copy of this affidavil 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
THE FRANK & GENEVA STICH LIVING TRUST	7335 140TH RD, CHANUTE, KS 66720
PHILLIP W STICH TRUST, PHILLIP W STICH TRUSTEE	7250 130TH RD, CHANUTE, KS 66720
BAILEY, MONTY J & TINA J	7650 130TH RD, CHANUTE, KS 66720
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•	
I further altest that notice of the filing of this application was published in th	he CHANUTE TRIBUNE , the official county publication
of NEOSHO	county. A copy of the affidavit of this publication is attached.
Signed this 25TH day of JUNE	2012
•	Branky Rd Beal
	Applicated of Duly Authorized Agent
DENISE V. VENNEMAN Subscribed and sworn to	to before me this 25TH day of JUNE , 2012
OFFICIAL MY COMMISSION EXPIRES July 1, 2012	- Duis V//mmeman
	Notary Public
	My Commission Expires:
· · · · · · · · · · · · · · · · · · ·	

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BAILEY, MARION 2-2 - APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS Offset Operators, Unleased Mineral Owners and Landowners acreage (Atlach additional sheets if necessary) Legal Description of Leasehold: THE FRANK & GENEVA STICH LIVING TRUST S2NWSW, NESW, SWSW (LESS 3 ACRE TRACT) S35 PHILLIP W STICH TRUST, PHILLIP W STICH TRUSTEE SE/C W2SW4 (3 ACRES) S35-T28S-R18E BAILEY, MONTY J & TINA J SE/C SW SE 4 S35-T28S-R18E I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief. Applicant of Duly Authorized Agent Subscribed and swom before me this 25TH DENISE V. VENNEMAN FFICIAL MY COMMISSION EXPIRES July 1, 2012 Notary Public My Commission 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 n1tice was

made as aforesaid on the 18th of

June 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.

Fletchall

Subscribed and sworn to before me this

18th day of June, 2012

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

Notary Public Sedgwick County, Kansas

Printer's Fee : \$132.40

LEGAL PUBLICATION

PUBLISHED INTHE WICKUTA EAGLE
JUNE 18, 2012 (19135)
BEFORE THE STATE CORPORATION
COMMISSION OF THE
STATE OF KANSAS.
NOTICE OF BLING APPLICATION
RESIDENT MARKET OF PRODUCTION OF THE BRIDGE OF BLING APPLICATION
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TO All OII & Cas. Production In the BRIDGE MARKET OF THE BRIDGE O

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

July 10, 2012

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

RE:

Approved Commingling CO061213

Marion Bailey 2 #2, Sec.2-T29S-R18E, Neosho County

API No. 15-133-25718-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well 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. This application, which was received by the KCC on June 26, 2012, concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

Source of Supply	BOPD	MCFPD	BWPD	Perf Depth
Riverton	0.00	6.43	5.71	945-949
Rowe	0.00	6.43	5.71	890-892
Rowe	0.00	6.43	5.71	886-889
Weir	0.00	6.43	5.71	674-678
Croweburg	0.00	6.43	5.71	634-638
Mulky	0.00_	6.43	5.71	531-535
Summitt	0.00	6.43	5.71	519-522
Cattleman	3.00	0.00	20.00	703-708
Total Estimated Current Production	3.00	45.01	59.97	

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 completion of the well to commingle.

Commingling ID number CO061213 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