

# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-4 Form must be typed March 2009

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

OPERATOR: License #		API No. 15					
Name:_		Spot Description: _					
Address	1:		_ Sec Twp	S. R East West			
Address	2:		Feet from Nor	rth / South Line of Section			
City:		<u> </u>	Feet from Eas	st / West Line of Section			
Contact	Person:	County:					
	()		Well	#:			
1.	Name and upper and lower limit of each production interval to	be commingled:					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
2.	Estimated amount of fluid production to be commingled from e						
	Formation:			BWPD:			
	Formation:			BWPD:			
	Formation:			BWPD:			
	Formation:	BOPD:	MCFPD:	BWPD:			
	Formation:	BOPD:	MCFPD:	BWPD:			
3.	Plat map showing the location of the subject well, all other well the subject well, and for each well the names and addresses of		· ·	es within a 1/2 mile radius of			
4.	Signed certificate showing service of the application and affida	avit of publication as required	d in K.A.R. 82-3-135a.				
For Con	nmingling of PRODUCTION ONLY, include the following:						
<u> </u>	Wireline log of subject well. Previously Filed with ACO-1:	Yes No					
<u> </u>	Complete Form ACO-1 (Well Completion form) for the subject	well.					
For Con	nmingling of FLUIDS ONLY, include the following:						
7.	Well construction diagram of subject well.						
8.	Any available water chemistry data demonstrating the compati	ibility of the fluids to be comi	mingled.				
current ir mingling	VIT: I am the affiant and hereby certify that to the best of my nformation, knowledge and personal belief, this request for comis true and proper and I have no information or knowledge, which sistent with the information supplied in this application.		ubmitted Electroni	ically			
l —	C Office Use Only			in the application. Protests must be filed wihin 15 days of publication of			

Date: \_

Approved By:

15-Day Periods Ends: \_



# **Wellbore Schematic**

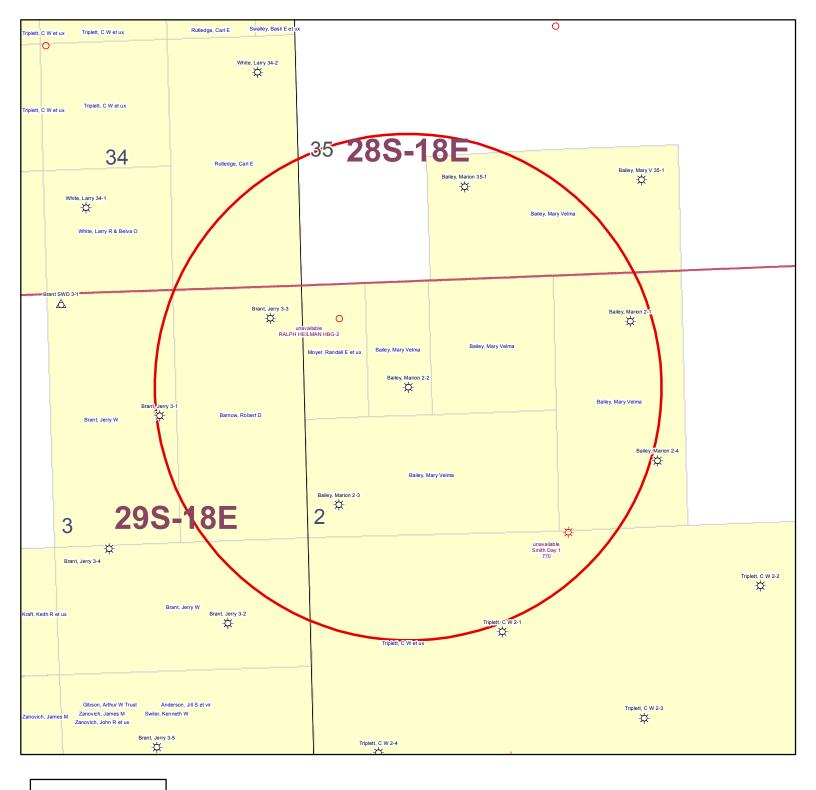
TOC - Surface

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 @ 106	2'	
Original Perfs: 5/15/02 - Riverton 945-949' (1' - Rowe 890-892' (9) - Rowe 886-889' (13) - Weir 674-678' (17) - Croweburg 634-638' - Mulky 531-535' (17) - Summit 519-522' (17)	(17)	8.625" 32# J-55 @ 22' 4 sks cement
Spud Date: 2/21/02  Riverton Completion: 5 - 500 gal HCl - 7,500# 20/40 - 569 bbls H2O - 14 BPM  Rowe/Croweburg Com - Treated in 2 stages, v seperated by stage, jus - ? Gals HCl - 8,600# 20/40 - 814 bbls H2O - 12 BPM Rowe, 16 BP  Summit/Mulky Completion	pletion: 5/14/02 volumes not it total for day M Croweburg	5.5" 14# WC-50 @ 1062' 155 sks cement



# **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,

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 Midconti-nent Production, LLC has filed an application to commingle the Riverton, Rowe, Welr, Crowe-burg, Mulky, Summit and Cattleman producing formations at the Balley, Marlon 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 Corporation Commission of the State of Kan-sas 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 Con-servation Division of the Kansas Oil and Gas Commission

Upon the receipt of any protest. the Commission will convene a hearing and protestants will be ex pected to enter an appearance el ther 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 &

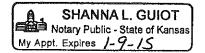
STATE OF KANSAS, NEOSHO COUNTY, ss: Rhonda Howerter, being first duly sworn, deposes and says: That she is Classified Manager of THE CHANUTE TRIBUNE, a daily newspaper printed

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 newspa-thereof being made as aforesaid on the \_/lo\_ day of June 2012, with subsequent publications being made on the following dates: . 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.





Oil and Gas Well Database

# Specific Well--15-133-25718

ACO-1

#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACQ-1 September 1969 Reim West Be Typed

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32845	133-25718
Operator: License # 22045 Name: Deven SFS Operating Inc.	API Na. 15 - 133-25718 County: Neostro
Address: 20 North Broadway, Suite 1500	Fur Sure NW suc 2 top 29 s R 18 PEast West
City/3late/Ze; Oklahoma City, OK 73102-9260	
	1100   holdrom S (N) derile cone) Line of Section
Paichaspi: Tall Grass, LLC	1100   leat from E (Circle and) Line of Section
Operator Contact Person: Robert Cole	Foolages Calculated from Nearest Outside Section Corner:
Phone: (405_) 235-3611	(challene) NE SE NW SW
Contractor: Name: MOKAT DAG.	Leazo Home: Marion Balloy 2 Wall #: 2
License: #5831	Field Hamo:
Wellsite Geologist: David Fleming	Producing Formatian: Riverton Coal
Designate Type of Completion:	Elevation: Ground: 924 ft. Kelly Bushing:
V New Well Process Re-Entry Workgree	Yolas Depth: 1.085 ft. Plog Back Yolal Dopth: 1.055 ft.
Oil SWD SYOW Yemp. Abd.	Amount of Surface Pipe Sat and Comented at 22 Feet
GasENHRSIGW	Multiple Singe Computing Collar Used? ☐Yes ☐ No
Ory Other (Core, WSW, Expl., Cnthodic, etc)	li yes, show depth set
if Workever/Re-entry: Old Well Info as follows:	If Allgrante II completion, coment circulated from Stiff808
Operator:	foot depth to 1,062 ft. wr 155 exemt.
Well Name:	
Original Comp. Date: Original Total Borth:	Orbiting Fluid Management Plan Art III WW (Orbit work be colocing from the Reserve Fit) (0-7-02
	Chloride content N/A pom Ft-3 volume N/A bbls
Plug Bock Plug Back Tolai Qopti	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Comminged Docket No	Devaluing method used
Dust Completion	Location of fisid disposal if hauted offsito:
Other (SWO or Enh.;?) Docket No	Operator Names:
	Leaso Name: Usonse No:
2/21/02\$pudOate         2/25/02-7D         6/1/02           Spud Date or         Date Reached TD         Completion Date or	Ouartor Sec. Yop. S. R Cast[] West
Recompletion Date  Recompletion Date	County: Docket No.:
Kensan 67202, within 120 days of the sput dain, recompletion, worker teleproperation of side two of this form will be held confidential for a poiled of 107 for confidentiality in excess of 12 mentils). One copy of all wirefine by TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged well.	h the Kansus Corporation Commission, 130 S. Market - Roam 2018, Wichlan, war or convension of a web. Rule 89-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-s and goodglat web report shad be attached with this form. ALL CEMENTING 9. Submit CP-111 form with all temporarily abandoned wells.
berein the company of a seriest to the best of my knowledge.	the tile of each des morans, travo poor and combiner that and me sescritores
de Oblive ( DL)	V60 066-4 18-4 0311V
Signal (red)	KCC Office Use ONLY
THE X MA CON DOTE 6/19/02	Deng Letter of Considerall Say Alliached
Subscribed and sworn to before me this 20 day of Acres	Housed, Yes Kicale: 6-26-02
- 200 -	
39() (/	Geologist Report Received
NOTARY PUNC / CICIL L. The SC VANGEL MOT	
Date Commission Expires: (SEAL) Oklahoma C	
State of Okla	ahoma
My commission expires 1-	<u>5-6.3</u> ]

Operator Name: Devon SFS Operating Inc. Lease Name: Marion Belley 2 Scc. 2 Twp. 29 5, R. 18 PEast | West County: Neosho INSTRUCTIONS: Show important lops and base of formations ponetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and desed, desting and shot-in pressures, whether shot-in pressure reached stalls (red), hydrostatic pressures, bottom hole temperature, fold recorday, and flow rates if gas to curiace test, along with final chard(a). Attach catra sheet if more space is needed. Attach copy of all Electric Wirefine Logs surveyed. Attach final geological well site report. Drift Storn Tests Taken ∏Yes ∰t¥o [2] Log Formation (Top), Depth and Datum (2) Sample (Attach Additional Sheets) Nama Detem Ϋ́ρ Samples Sont to Geological Survey Vos PNo See Attachments Cares Taken ☐Yes ☑Wo Etectric Log Run ₹Yoo □No tist All E. Logs Run: GR, N, D, DIL, COL CASING RECORD WWW Deed Rescut ell strings set-conductor, vistaco, intera diste, proda Glee ) feli Dr.f od Giza Casky Set (10 O.D.) Type and Percent Addition Purpose of String West! Lbs /F) Surface 11" 8 5/8° 32 #/it 22' Portland none Production 7 7/8\* ThickSet CI'A' 5 1/2" 14 #/位 1.062 155 ADDITIONAL CEMENTING / SQUEEZE RECORD PARPESO: Depth Top Bottom ASSESS Used Doe of Central Type and Posceri Additions Protecte
Protect Casing
Plug Back TD
Plug Off Zone PERFORATION RECORD - Bridge Plags Settlype Epically Foolage of Each Interval Parlished Shots Per Foot Doys 945'-949'-Riverion Coal 4 sp! 500 gl.FeHCl.Frac24,000gl,7500#20/40Sd. TUBING RECORD Parker Al 23/8\* 981'-EOT N/A []Yes V tio Date of First, Resurred Freducien, SVID or Entit. Producing Method 6/1/02 Fewire Pumping ∏ Gos Un Estimated Production Per 24 Hours OI Bats. Gm 310 Water Gan-Oli Ret o N/A 151 Mcfd 150 bbis. NΛ N/A Disposition of Gas METHOD OF COMPLETION []Verted []Sold []Used on Lease
(# wined, Sunst ACOste) Open Hero Pitent Outly Coma Convinged. District (Speeds)

Side Two

	Α	В	С	D	Е	F	G	П	ı	ı	К
1	Produced Fluids #	C	1	2	3	4	G 5	Н	<u> </u>	J	1 N
	Parameters	Units	Input	Input	Input	Input	Input		Click he	ro	Click
3	Select the brines	Select fluid					7	Mixed brine:	to run S		
4	Sample ID	by checking					<u> </u>	Cell H28 is	to run se		Click
	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.	<b>—</b>		
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			Click
_	Well Name		Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith	are used in	Goal Seek	SSP	
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines			Click
	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.		<u> </u>	
		(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	SI/SR
	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index	values	(Final-Initial)
	$Mg^{2+}$	(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)						0.00			
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Ha	alite	
	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03
	Pb <sup>2+</sup>							0.00		osum	0.02
	Cl.	(mg/l) (mg/l)	36,299,00	48,965,00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00
	SO <sub>4</sub> <sup>2</sup>		1.00	1.00	8.00	1.00	1.00	2.40		-3.18 nydrate	0.00
-	F.	(mg/l)	1.00	1.00	8.00	1.00	1.00			·	0.04
21	n ·	(mg/l)						0.00	-3.96	-3.90	0.06
	Br <sup>*</sup>	(mg/l)						0.00		ydrite	
-	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	Cele	estite	
-	CO3 Alkalinity	(mg/l as CO3)									
	Carboxylic acids**	(mg/l)						0.00		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			
	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium	fluoride	
	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
	H <sub>2</sub> 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	0.23
34	pH, measured (STP)	pH 0-CO2%+Alk,	5.67	5.76	5.72	5.54	5.55	5.63		eeded (mg/L)	
	Choose one option								Calcite	NTMP	
35	to calculate SI?		0	0	0	0	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	
38	XXX / III		100	100	100	100	100	500	0.00	0.00	
	Water/Day	(B/D)								**	-
	For mixed brines, enter val	ues for tempera	tures and pressi	ures in Cells (H	(40-H43)	A1 A	40.0	(Enter H40-H43)	p	H 5.60	
40	For mixed brines, enter val Initial T	ues for temperat	tures and pressu	ures in Cells (H 71.0	(40-H43) 70.0	41.0 41.0	49.0 49.0	(Enter H40-H43) 60.0	5.69	5.60	
40 41	For mixed brines, enter val Initial T Final T	(F) (F)	tures and pressu 66.0 66.0	res in Cells (H 71.0 71.0	70.0 70.0	41.0	49.0	(Enter H40-H43) 60.0 89.0	5.69 Viscosity (	5.60 CentiPoise)	-
40 41 42	For mixed brines, enter val Initial T Final T Initial P	(F) (F) (psia)	66.0 66.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0	5.69 Viscosity ( 1.196	5.60 CentiPoise) 0.826	
40 41 42 43	For mixed brines, enter val Initial T Final T	(F) (F) (psia) (psia)	tures and pressu 66.0 66.0	res in Cells (H 71.0 71.0	70.0 70.0	41.0	49.0	(Enter H40-H43) 60.0 89.0	5.69 Viscosity ( 1.196	5.60 CentiPoise)	-
40 41 42 43 44	For mixed brines, enter val Initial T Final T Initial P Final P	(F) (F) (psia) (psia)	66.0 66.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955	5.60 CentiPoise) 0.826 ity (cal/ml/ <sup>0</sup> C)	
40 41 42 43 44 45 46	For mixed brines, enter val Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav.	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav.	66.0 66.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 eded (mg/L) HDTMP	
40 41 42 43 44 45 46 47	For mixed brines, enter val Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 eded (mg/L) HDTMP 0.00	
40 41 42 43 44 45 46 47 48	For mixed brines, enter val Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav.	66.0 66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48	For mixed brines, enter val Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier	ues for tempera (F) (F) (psia) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 eded (mg/L) HDTMP 0.00	
40 41 42 43 44 45 46 47 48 49	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) *	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) †	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH' (Strong base) † Quality Control Checks at	ues for tempera  (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP:	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51 52 53	For mixed brines, enter valinitial T Final T Initial P Final P Final P Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H† (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
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40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H† (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated	ues for tempera (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
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40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H† (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated	ues for tempera  (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 2Cations=	(F) (F) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 50 51 52 53 54 55 56 67 57 58 60 61	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated Alkalinity Caclulated EX Calcions= EX Anions= Calc TDS= Inhibitor Selection	(F)	66.0 66.0 25.0 25.0	71.0 71.0 71.0 25.0	40-H43) 70.0 70.0 25.0 25.0	41.0 25.0 25.0 Unit Converter	49.0 25.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0	5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 50 51 52 53 54 55 56 57 58 60 61 62	For mixed brines, enter valinitial T Final T Initial P Final P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH (Strong base) * Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time	ues for tempera  (F) (F) (psia) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (mg/I)	tures and press 66.0 66.0 25.0 25.0	# 1	40-H43) 70.0 70.0 25.0 25.0  Inhibitor NTMP	41.0 25.0 25.0 Unit Converter	49.0 25.0 25.0 25.0	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0	Viscosity ( 1.196  Heat Capaci 0.955  Inhibitor ne Gypsum 0.00  Anhydrite 0.00	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 58 59 60 61 62 63	For mixed brines, enter valinitial T Final T Initial P Final P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer	(F)	tures and press 66.0 66.0 25.0 25.0 0 0	# 1 2	40-H43) 70.0 70.0 25.0 25.0  Inhibitor NTMP BHPMP	41.0 25.0 25.0 25.0 Unit Converter From Unit	49.0 25.0 25.0 25.0 (From metric Value 80	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 to English) To Unit	Value	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 57 58 85 960 61 62 63 64	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 2Cations= 2Anions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you?	(F)	tures and press 66.0 66.0 25.0 25.0 0 0 0	# 1 2 3	40-H43) 70.0 70.0 25.0 25.0  Inhibitor NTMP BHPMP PAA	Unit Converter From Unit C m³	49.0 25.0 25.0 25.0 (From metric Value 80 100	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit °F ft³	Value 176 3,531	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 62 63 64 65	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 2Cations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is:	(F)	tures and press 66.0 66.0 25.0 25.0 0 0	# 1 2 3 4 4	40-H43) 70.0 70.0 25.0 25.0  Inhibitor NTMP BHPMP PAA DTPMP	Unit Converter From Unit °C m³ m³	49.0 25.0 25.0 25.0 (From metric Value 80 100 100	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 to English) To Unit °F ft³ bbl(42 US gal)	Value 176 3,531 629	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 46 47 48 49 50 51 52 53 53 54 55 56 67 68 64 65 66	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong acid) † OH* (Strong acid) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated PCO2 Calculated Alkalinity Caclulated Exations= Exations= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed,	ues for tempera  (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (mg/I) Input 120  1 4	tures and press 66.0 66.0 25.0 25.0 0 0 0 1-Yes;0-No #	# 1 2 3 4 5 5	40-H43) 70.0 70.0 25.0 25.0  Inhibitor NTMP BHPMP PAA DTPMP PPCA	Unit Converter From Unit °C m³ m³ MPa	49.0 25.0 25.0 25.0 (From metric Value 80 100 1,000	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit °F ft³ bbl(42 US gal) psia	Value 176 3,531 629 145,074	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 50 51 52 53 53 54 55 56 57 60 61 62 63 64 65 66 67	For mixed brines, enter valinitial T Final T Initial P Final P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. McOH/Day MEG/Day Conc. Multiplier H* (Strong acid) * OH* (Strong acid) * OH* (Strong base) * Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed,  1st inhibitor # is:	ues for tempera  (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (mg/I) Input 120  1 4	Unit min 1-Yes;0-No #	## 1 2 3 3 4 5 5 6	Inhibitor NTMP BHPMP PAA DTPMP PPCA SPA	Unit Converter From Unit °C m³ m³ MPa Bar	49.0 25.0 25.0 25.0 (From metric Value 80 100 100 1,000 496	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit °F ft³ bbl(42 US gal) psia psia	Value 176 3,531 629 145,074 7,194	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 50 51 52 53 55 56 67 66 67 68	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong base) † Oulity Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated Alkalinity Caclulated EX Calculated Alkalinity Caclulated EX Calculated FYCO2 Calculated Alkalinity Caclulated FYCO3 Calculated FYCO3 Calculated FYCO4 Calculated FYCO4 Calculated FYCO5 CAlcul	(F)	Unit min 1-Yes;0-No #  # %	# 1 2 3 4 4 5 6 6 7	1nhibitor NTMP BHPMP PAA DTPMP PPCA SPA HEDP	Unit Converter From Unit  °C  m³  m³  MPa  Bar  Torr	49.0 25.0 25.0 25.0 25.0 	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit °F ft³ bbl(42 US gal) psia psia	Value 176 3,531 629 145,074 7,194 193	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 50 51 52 53 54 55 66 61 62 63 64 65 66 67 68 69	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated Alkalinity Caclulated Alkalinity Caclulated EX Cations= EX Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed,  1st inhibitor is: % of 1st inhibitor is: % of 1st inhibitor is: 2nd inhibitor # is:	ues for tempera  (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (N) STP: (%) (mgH2S/I) (pH) (mg/I) as HCO3 (equiv./I) (equiv./I) (mg/I) 1 120  1 4 1 50 2	Unit min 1-Yes;0-No # # % #	# 1 2 3 4 5 6 6 7 8 8	Inhibitor NTMP BHPMP PAA DTPMP PPCA SPA HEDP HDTMP	Unit Converter From Unit °C m³ MPa Bar Torr Gal	49.0 25.0 25.0 25.0 25.0 25.0 25.0 40 100 100 100 100 100 100 1000 1000	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 to English) To Unit F ft³ bbl(42 US gal) psia psia psia	Value 176 3,531 629 145,074 7,194 193 238	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
40 41 42 43 44 45 50 51 52 53 54 55 66 61 62 63 64 65 66 67 68 69	For mixed brines, enter valinitial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong base) † Oulity Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated Alkalinity Caclulated EX Calculated Alkalinity Caclulated EX Calculated FYCO2 Calculated Alkalinity Caclulated FYCO3 Calculated FYCO3 Calculated FYCO4 Calculated FYCO4 Calculated FYCO5 CAlcul	(F)	Unit min 1-Yes;0-No #  # %	# 1 2 3 4 4 5 6 6 7	1nhibitor NTMP BHPMP PAA DTPMP PPCA SPA HEDP	Unit Converter From Unit  °C  m³  m³  MPa  Bar  Torr	49.0 25.0 25.0 25.0 25.0 	(Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit °F ft³ bbl(42 US gal) psia psia	Value 176 3,531 629 145,074 7,194 193	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 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 <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

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

DRMATION:	MULKY	(PERFS):	531 -	- 535			
ORMATION:	SUMMITT	(PERFS):	519 -	522			
ORMATION:	CATTLEMAN	(PERFS):	703 -	708			
ORMATION:		(PERFS):	-				
ORMATION:		(PERFS):	-				
ORMATION:		(PERFS):	-				
ORMATION:		(PERFS):					
ORMATION:		(PERFS):	-				
ORMATION:		(PERFS):					
ORMATION:		(PERFS):	-				
ORMATION:		(PERFS):	-				
		<del></del>					
ORMATION: ESTIMATED AI	MOUNT OF FLUID PRODUCTION	(PERFS): N TO BE COMMINGLED FROM	- 1 EACH INT	ERVAL			
	MOUNT OF FLUID PRODUCTION	<u> </u>	- 1 EACH INT 0	ERVAL MCFPD:	6.43	BWPD:	5.71
ESTIMATED AI	MULKY	N TO BE COMMINGLED FROM			6.43 6.43	BWPD:	5.71 5.71
ESTIMATED AI FORMATION:	MULKY	N TO BE COMMINGLED FROM BOPD:	0	MCFPD:			
ESTIMATED AIFORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD: BOPD:	0	MCFPD:	6.43	BWPD:	5.71
ESTIMATED AI FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD:	0	MCFPD: MCFPD: MCFPD:	6.43	BWPD: BWPD:	5.71
ESTIMATED AI FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD: BOPD: BOPD:	0	MCFPD: MCFPD: MCFPD:	6.43	BWPD: BWPD: BWPD:	5.71
ESTIMATED AI FORMATION: FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD: BOPD: BOPD: BOPD:	0	MCFPD: MCFPD: MCFPD: MCFPD:	6.43	BWPD: BWPD: BWPD:	5.71
ESTIMATED AI FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD:	0	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	6.43	BWPD: BWPD: BWPD: BWPD:	5.71
ESTIMATED AISTORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD:	0	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	6.43	BWPD: BWPD: BWPD: BWPD: BWPD:	5.71
ESTIMATED AI FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	N TO BE COMMINGLED FROM BOPD:	0	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	6.43	BWPD: BWPD: BWPD: BWPD: BWPD: BWPD:	5.71
ESTIMATED AI FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	MULKY SUMMITT	BOPD:	0	MCFPD:	6.43	BWPD: BWPD: BWPD: BWPD: BWPD: BWPD: BWPD:	5.71

ADDITION OF THE PROPERTY OF TH	
Affidavit of Notice Served	·
Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS - ACO-4	
Well Name: BAILEY, MARION 2-2 Legal Location: SESENWNW S2-T29S-R	18E
The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day 25TH of JUNE	t
a true and correct copy of the application referenced above was delivered or mailed to the following parties:	
Note: A copy of this affidavit must be served as a part of the application.	
Name Address (Attach additional sheets if necessary)	
POSTROCK MIDCONTINENT PRODUCTION, LLC 210 PARK AVENUE, SUITE 2750, OKLAHOMA C	TY, 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
	official county publication
of NEOSHO countly. A copy of the affidavit of this publication is attached.	
Signed this 25TH day of JUNE , 2012	
Applicant of Duly Multiprized Agent /	
DENISE V. VENNEMAN Subscribed and sworn to before me this 25TH day of JUNE	. 2012
OFFICIAL MY COMMISSION EXPIRES July 1, 2012  Laure Uleaner	nan
Notary Public  My Commission Expires:	
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### BAILEY, MARION 2-2 - APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

Construction of the Constr	Anna Anna Anna Anna Anna Anna Anna Anna				
ffset Operators, Unleased Mineral Owners and Landowners acreage Mach additional sheets if necessary)					
Name:	Legal Description of Leasehold:				
HE 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				
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	·				
ereby certify that the statements made herein are true and correct to the best of	my knowledge and belief.				
Subscribed and sworn befor DENISE V. VENNEMAN	e me this 25TH day of JUNE ,2012				
Subscribed and sworn befor  DENISE V. VENNEMAN  DEFICIAL  MY COMMISSION EXPIRES					
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### 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.

Subscribed and sworn to before me this

**18th day of June, 2012** 

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

Notary Public Sedgwick County, Kansas

Printer's Fee: \$132.40

PUBLISHED IN THE WICHTA EAGLE
JUNE 18, 2012 (319/259)
BEFORE THE STATE CORPORATION
COMMISSION OF THE

JUNE 18, 2012 (319/258)
BEFORE THE STATE CORPORATION
COMMISSION OF THE
STATE OF KANSAS
NOTICE OF FILLING APPLICATION
RE: In the Matter of Postrock Migcontinent
Production, LLC Application for
Commingling of Production in the
Bailey, 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 filled an application
to commingle the Riverton, Rowe, Weir,
Croweburg, Mulky, Summit and Cattieman
producing formations at the Bailey,
Marion 2-2, located in the SE SE NW NW,
S2-T295-R1BE, Approximately 1103 FNL &
1085 FWL, Neosho County, Kansas.
Any persons who object to or protest
this application shall be required to fille 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 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 Avenu

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:

		Estimated Current		
		Production		Dowf
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