

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-4 Form must be typed March 2009

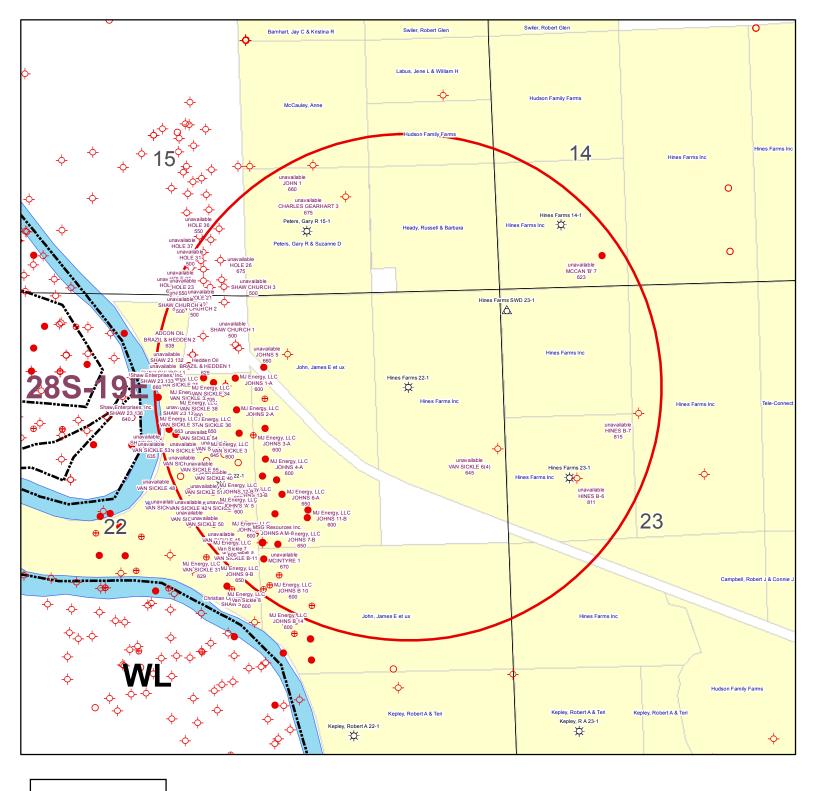
APPLICATION FOR COMMINGLING OF Commingling ID # _ PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License #		API No. 15			
Name:_		Spot Description:			
Address	1:		Sec Twp	S. R East West	
Address	2:		Feet from No	orth / South Line of Section	
City:			Feet from Ea	st / West Line of Section	
Contact	Person:	County:			
Phone:	()	Lease Name:	Wel	l #:	
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.□ 4.	Plat map showing the location of the subject well, all other well the subject well, and for each well the names and addresses of Signed certificate showing service of the application and affida	of the lessee of record or ope	rator.	ses within a 1/2 mile radius of	
For Con	nmingling of PRODUCTION ONLY, include the following:				
<u> </u>	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 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 comn	ningled.		
current ir mingling	/IT: 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 istent with the information supplied in this application.	Su	bmitted Electron	ically	
l —	C Office Use Only			t in the application. Protests must be e filed wihin 15 days of publication of	

Date: _

Approved By:

15-Day Periods Ends: _



KGS STATUS

- ◆ DA/PA
- EOR
- **⇔** GAS
- △ INJ/SWD
- OIL
- **♦** OIL/GAS
- OTHER

Hines Farms 22-1 22-28S-19E 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 Hines Farms 22-1 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 Riverton, Neutral, Rowe, Tebo, Fleming, Croweburg, Bevler, Mulky, Summit and Cattleman producing formations at the Hines Farms 22-1, located in the SW NE NE, S22-T28S-R19E, Approximately 990 FNL & 990 FEL, Neosho County, Kansas.

Any persons who object to or protest this application shall be required to flie their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly. All person and/or companies wishing to protest this application are required to file a written protest with the Conservation Division of the Kansas Oil and Gas Commission.

Upon the receipt of any protest, the Commission will convene a hearing and protestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.

Postrock Midcontinent Production, LLC 210 Park Avenue, Suite 2750 Oklahoma City, Oklahoma 73102 (405) 660-7704

A COPY OF THE AFFIDAVIT OF PUBLICATION MUST ACCOM-PANY ALL APPLICATIONS

Affidavit of Publication 🐝

STATE OF KANSAS, NEOSHO COUNTY, ss:

Rhonda Howerter, being first duly sworn, deposes and says: That she is Classified Manager of THE CHANUTE TRIBUNE, a daily newspaper printed in the State of Kansas, and published in and of general circulation in Neosho County, Kansas, with a general paid circulation on a daily basis in Neosho County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a daily published at least weekly 50 times a year: has been so published continuously and uninterruptedly in said county and state for a period of more than five years prior to the first publication of said notice; and has been admitted at the post office of Chanute, in said county as second class matter.

That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for ________, the first publication thereof being made as aforesaid on the \(\lambda \lore{\lirk}}}}}}}}}}} June 2012, with subsequent publications being made on the following dates: , 2012 Subscribed and sworn to and before me this <u>19</u>day of _ Public My commission expires: January 9, 2015 Printer's Fee \$ 70.14 Affidavit, Notary's Fee \$ 3.00 Additional Copies\$_ Total Publication Fees \$ 73



CONSERVATION DIVISION

WICHITA, KS

	12/20/09
CONFIDENTIAL KANSAS CORPOR WELL COMF WELL COMF WELL HISTORY - DESCRIPTION	RATION COMMISSION SERVATION DIVISION SERVATION FORM PLETION FORM RIPTION OF WELL & LEASE
Operator: License #_33344	API No. 15 - 133-27091-0000
Name: Quest Cherokee, LLC	County: Neosho
Address: 211 W. 14th Street	swneneSec22Twp28SR19V East West
City/State/Zip: Chanute, KS 66720	990 feet from S / N (circle one) Line of Section
CTIAL COLLEGE	Footages Calculated from Nearest Outside Section Corner:
Phone: (620) 431-9500 Contractor: Name: TXD Drilling License: 33837	(circle one) NE SE NW SW
Contractor: Name: TXD Drilling	Lease Name: Hines Farms Well #: 22-1
License: 33837	Field Name: Cherokee Basin CBM
Wellsite Geologist: Ken Recoy	Producing Formation: multiple
Designate Type of Completion:	Elevation: Ground: 900 Kelly Bushing: n/a
New Well Re-Entry Workover	Total Depth: 963 Plug Back Total Depth: 943.22
OilSWDTemp. Abd.	
✓ Gas ENHR SIGW	The second secon
Dry Other (Core, WSW, Expl., Cathodic, etc)	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 943.22
and and and and and and and and an experimentation in the process of the company. The control of the control o	feet depth to Surface w/ 120 sx cmt.
Operator:	sx cmt.
Original Comp. Date: Original Total Depth: Deepening Re-perf Conv. to Enhr./SWD Plug Back Plug Back Total Depth	Chloride content ppm Fluid volume bbls Dewatering method used
Commingled Docket No	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
8/27/07 8/29/07 8/30/07	Lease Name: License No.:
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date	QuarterSecTwpS. R East West County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workov Information of side two of this form will be held confidential for a period of 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells All requirements of the statutes, rules and regulations promulgated to regulatering are complete and correct to the best of my knowledge. Signature: General August 120 days of the spud date, recompletion, workov lands and repulation of all wireline logs. Signature: Signature:	in the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, error conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-130) and geologist well report shall be attached with this form. ALL CEMENTING S. Submit CP-1.11 form with all temporarily abandoned wells. Attention of the KCC Office Use ONLY
Title: New Well Development Coordinator Date: 12/19/07 Subscribed and sworn to before me this 19 day of December	Letter of Confidentiality Received If Denied, Yes Date:
	Wireline Log Received RECEIVED
2007	Geologist Report Received ANSAS CORPORATION COMMISSION
Notary Public: Dova Kauman	UIC Distribution
Date Commission Expires: 8-4-2010	ERDAKLAUMAN DEC 2 6 2007

My Appt. Expires 8-4-2010

Operator Name: Que	st Cherokee, LL	C	Lease N	Name: _	lines Farms		_ Well #: 22-1		
Sec. 22 Twp. 28		and the same of th	t County:	Neosho					1
NSTRUCTIONS: She ested, time tool open emperature, fluid reco electric Wireline Logs	and closed, flowing overy, and flow rate	g and shut-in pressus s if gas to surface te	res, whether shu st, along with fin	ıt-in pre	ssure reached	static level, hydr	ostatic pressure	es, bottom	n hole
Drill Stem Tests Taken		Yes N	0	✓Lo	og Forma	tion (Top), Depth	and Datum	□s	emple
Samples Sent to Geol		Yes N	0	Name	e attached		Тор	D	atum
Cores Taken Electric Log Run (Submit Copy)		Yes N		19.	,. ; ;				
ist All E. Logs Run:				(7)					
Compensated D Dual Induction L Gamma Ray Ne	_og	n Log							
74 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ING RECORD set-conductor, sur	Ne face, inte	_	ction, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weigh Lbs. / I	ht Ft.	Setting Depth	Type of Cement	# Sacks Used	Type a	and Percent dditives
Surface	12-1/4	8-5/8"	22		22	"A"	5		
Production-	6-3/4	4-1/2	10.5		943.22	"A"	120		
				e e		,	•		,
	1	ADDITIO	NAL CEMENTIN	G / SQL	JEEZE RECOR	D			
Purpose: —— Perforate —— Protect Casing —— Plug Back TD —— Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks I	Used		Type and	Percent Additives	-	*
Flag Oil Zoile		MARK - 10.2							
Shots Per Foot		ION RECORD - Bridge Footage of Each Interv				acture, Shot, Ceme Amount and Kind of M		rd	Depth
4	838-841/787-789/7	781-783			400gal 15%HCLw/ 51	bbls 2%kd water, 708bbls wate	r w/ 2% KCL, Blocide, 6800	3# 20/40 sand	838-841/787-7
									781-783
4	628-630/569-571/5	535-538/510-512			400gal 15%HCLw/ 53	bbls 2%kd water, 682bbls water	er w/ 2% KCL, Blocke, 5000	3# 20/40 send	628-630/569-5
									535-53-8/510-5
4	431-435/419-423				300gel 15%HCLw/ 45	bbls 2%kcl water, 715bbls water	er w/ 2% KCL, Blockie, 7000	0# 20/40 sand	431-435/419-42
TUBING RECORD 2-3	Size	Set At 861	Packer At	l .	Liner Run	☐Yes ✓ N	0	10.70	,
Date of First, Resumerd waiting on pipeline	Production, SWD or		g Method	Flowing	g • 🖰 Pum	ping Gas l	_ift `_ Oth	er (Explain)	
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio		Gravity
Disposition of Gas - >1		COMPLETION			Production Int	erval			· c
Vented Sold	Used on Lease	Open			Dually Comp.	Commingled			!
1 1.	gram territoria (1950 € 1950	VA	(Specify)	T	s, l				
				ن المورد					

	A	В	С	D	Е	F	C	П	ı	ı	К
1	Produced Fluids #	O	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		7		7	Mixed brine:	to run S		
4	Sample ID	by checking					· ·	Cell H28 is	to run St		Click
	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.	>		
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			Click
	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.			
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
11	K ⁺ (if not known =0)	(mg/l)						0.00	Saturation Index	values	(Final-Initial)
12	Mg ²⁺	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Ca	lcite	
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
	Sr ²⁺	(mg/l)						0.00	Ba	rite	
15	Ba ²⁺	(mg/l)						0.00			
	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	н	alite	
	Zn ²⁺		40.00	21.00	10.00	02.00	70.00	0.00	-1.77	-1.80	-0.03
		(mg/l)									-0.03
	Pb ²⁺	(mg/l)	2 (200 00	40.045.00	47.074.00	45.22.00	424 47 00	0.00		osum	0.00
	Cl'	(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		nydrate	
21	F	(mg/l)						0.00	-3.96	-3.90	0.06
	Br [*]	(mg/l)						0.00	Anh	ydrite	
23	SiO2	(mg/l) SiO2						0.00	-3.47	-3.36	0.12
24	HCO3 Alkalinity**	(mg/l as HCO3)	190.00	234.00	259.00	268.00	254.00	241.03	Cele	estite	
25	CO3 Alkalinity	(mg/l as CO3)									
26	Carboxylic acids**	(mg/l)						0.00	Iron S	Sulfide	
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H3BO3						0.00	Zinc	Sulfide	
	TDS (Measured)	(mg/l)						72781			
	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium	ı fluoride	
	CO ₂ Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16	Curezun		
	H ₂ S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Ca	arbonate	
_	Total H2Saq	(mgH2S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23
-	pH, measured (STP)	pН	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor ne	eeded (mg/L)	
		0-CO2%+Alk,							Calcite	NTMP	
	Choose one option				_						
35	to calculate SI?	•	0	0	0	0	0		0.00	0.00	
	Gas/day(thousand cf/day)	(Mcf/D)		0		1	4	0	0.00	0.00	
	Oil/Day Water/Day	(B/D) (B/D)	100	100	100	100	100	500	Barite 0.00	0.00	
	J			100	100	100	100	200		о.00 оН	
	For mixed brines, enter val	. ,		ures in Cells (H	(40-H43)			(Enter H40-H43)	n		
40	For mixed brines, enter val Initial T	. ,		ures in Cells (H 71.0	(40-H43) 70.0	41.0	49.0	(Enter H40-H43) 60.0	5.69	5.60	
		lues for tempera	tures and press 66.0 66.0	`		41.0	49.0	60.0 89.0	5.69		
41	Initial T	lues for temperator (F)	tures and press 66.0	71.0	70.0			60.0 89.0	5.69	5.60	
41 42 43	Initial T Final T Initial P Final P	(F) (F) (psia) (psia)	tures and press 66.0 66.0	71.0 71.0	70.0 70.0	41.0	49.0	60.0 89.0	5.69 Viscosity (1.196 Heat Capaci	5.60 CentiPoise) 0.826 ity (cal/ml/ ⁰ C)	
41 42 43 44	Initial T Final T Initial P Final P Use TP on Calcite sheet?	(F) (F) (psia) (psia) 1-Yes;0-No	66.0 66.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	60.0 89.0 25.0 120.0	5.69 Viscosity (1.196 Heat Capaci 0.955	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959	
41 42 43 44 45	Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav.	ues for temperat (F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav.	66.0 66.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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/ ⁰ C) 0.959 eeded (mg/L)	
41 42 43 44 45 46	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) 1-Yes;0-No API grav. Sp.Grav.	66.0 66.0 66.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47	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) 1-Yes;0-No API grav. Sp.Grav. (B/D)	66.0 66.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48	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) 1-Yes;0-No API grav. Sp.Grav.	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49	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)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50	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 H* (Strong acid) *	ues for tempera (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50	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) (N)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51	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 H* (Strong acid) † OH (Strong base) †	ues for tempera (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54	Initial 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 base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP)	ues for tempera (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP:	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	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 H* (Strong acid) † OH' (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) PH Calculated	ues for tempera (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	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 H* (Strong acid) * OH* (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated	(F) (F) (psia) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (PH) (%)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	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 H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated	(F) (F) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	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 H* (Strong acid) * OH* (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated	(F) (F) (psia) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (PH) (%)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	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 H* (Strong acid) * OH (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated EXAnions= EXAnions= Calc TDS=	(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)	tures and presss 66.0 66.0 25.0 25.0	71.0 71.0 25.0	70.0 70.0 25.0	41.0 25.0	49.0 25.0	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	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 H* (Strong acid) * OH* (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 2Cations= 2Anions= Calc TDS= Inhibitor Selection	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) (equiv./I) (mg/I) Input	tures and pressures 66.0 66.0 25.0 25.0 0 0 0 Unit	71.0 71.0 25.0 25.0	70.0 70.0 25.0 25.0	41.0 25.0 25.0 Unit Converter	49.0 25.0 25.0	60.0 89.0 25.0 120.0 30.00 0.60 0	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor nc Gypsum 0.00 Anhydrite 0.00	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62	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 H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated \$\textit{Z}\text{calculated}\$ Alkalinity Caclulated \$\text{Z}\text{calculated}\$ Calc TDS= Inhibitor Selection Protection Time	(F) (F) (psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (equiv./I) (mg/I)	tures and press 66.0 66.0 25.0 25.0	71.0 71.0 25.0 25.0	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	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	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 H* (Strong acid) * OH (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 2Cations= 2Anions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer	(F) (F) (psia) (psia) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (equiv./I) (equiv./I) (mg/I) Input 120	tures and pressures 66.0 66.0 25.0 25.0 0 0 0 Unit min	71.0 71.0 25.0 25.0 4 1 1 2	70.0 70.0 25.0 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	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	Initial 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 base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you?	(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) (equiv./I) (mg/I) Input 120	tures and pressures 66.0 66.0 25.0 25.0 0 0 0 0 Unit min	71.0 71.0 25.0 25.0 4 1 1 2 3	Inhibitor NTMP BHPMP PAA	41.0 25.0 25.0 25.0 Unit Converter From Unit °C m³	49.0 25.0 25.0 25.0 (From metric Value 80 100	60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00 Value 176 3,531	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
41 42 43 44 45 46 47 48 49 50 51 52 53 53 54 55 56 67 75 88 89 60 61 62 63 64 65	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 H† (Strong acid) † OH' (Strong base) † Quality Control Checks at H ₂ 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) (F) (psia) (psia) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (equiv./I) (equiv./I) (mg/I) Input 120	tures and pressures 66.0 66.0 25.0 25.0 0 0 0 Unit min	71.0 71.0 25.0 25.0 4 # 1 2 3	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	60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit "F ft"3 bbl(42 US gal)	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00 Value 176 3,531 629	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 78 88 60 61 62 63 64 65 66	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 H* (Strong acid) * OH* (Strong acid) * OH* (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated SCations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed,	(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) (mg/I) Input 120 1 4	tures and press 66.0 66.0 25.0 25.0 0 0 0 1-Yes;0-No #	71.0 71.0 25.0 25.0 4 1 2 3 4 5	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	60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit "F ft"3 bbl(42 US gal)	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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 60 61 62 63 64 65 66 66	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 H* (Strong acid) * OH' (Strong base) * Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated Alkalinity Caclulated EXATIONS= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed, 1st inhibitor # is:	(F) (F) (psia) (1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/l) as HCO3 (equiv./I) (mg/l) Input 120 1 4	Unit min 1-Yes;0-No #	# # 1 2 3 4 4 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 	60.0 89.0 25.0 120.0 30.00 0.60 0 0 0 To Unit "F ft ³ bbl(42 US gal) psia	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00 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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 63 64 65 66 67 68	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 H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated SCations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed, 1st inhibitor is:	(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) (equiv./I) (mg/I) Input 120 1 4 1 50	Unit min 1-Yes;0-No # # %	# # 1 2 3 4 4 5 6 6 7	Inhibitor 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 	60.0 89.0 25.0 120.0 30.00 0.60 0 0 0 To Unit "F ft ³ bbl(42 US gal) psia psia	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00 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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 62 63 64 65 66 67 68 69	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 H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated PCO2 Calculated Alkalinity Caclulated EXAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor for you? If you select Mixed, 1st inhibitor # is: % of 1st inhibitor is: % of 1st inhibitor is: 2nd inhibitor is:	(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) (equiv./I) (mg/I) 1 120 1 4 1 50 2	Unit min 1-Yes;0-No # # % #	## 1 2 3 4 4 5 6 6 7 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 25.0 25	60.0 89.0 25.0 120.0 30.00 0.60 0 0 10 10 10 10 10 10 10 10 10 10 10 1	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite 0.00 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	
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 62 63 64 65 66 67 68 69	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 H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated SCations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed, 1st inhibitor is:	(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) (equiv./I) (mg/I) Input 120 1 4 1 50	Unit min 1-Yes;0-No # # %	# # 1 2 3 4 4 5 6 6 7	Inhibitor 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 	60.0 89.0 25.0 120.0 30.00 0.60 0 0 0 To Unit "F ft ³ bbl(42 US gal) psia psia	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00 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 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

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

PUBLICATIONS

PUBLISHED INTHE WICHTIA EAGLE
JUNE 18, 2012 (3191259)
BEFORE THE STATE CORPORATION
COMMISSION
OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION
RE: In the Mailer of Postrock Midconfinent
Production, LLC Application for
Commingling of Production in the Hines
Farms 22-1 located in Neosho County,
Kansas,

TO: All Oll & 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

You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filled an application to commingle the Riverton, Neutral, Rowe, Tebo, Fleming, Croweburg, Bevier, Mulky, Summit and Catfleman producing formations at the Hines Farms 22-1, located in the SW NE NE, S22-T285-R19E, Approximately 990 FBL, Report of the State of Conservation of the State Conservation Division of the State of Kansas.

Any persons who object to or profest this application shall be required to file their objections or protest with the Conservation Division of the State of Kansas within fifteen (15) days from the date of his 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 politule 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 personand/or companies wishing to profest 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 profest, the Commission will convene a hearing and profestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.

own behalf.

Postrock Midcontinent Production, LLC 210 Park Avenue, Suite 2750 Oklahoma City, Oklahoma 73102 (405) 660-7704



Wellbore Schematic

WELL: Hines Farms 22-1

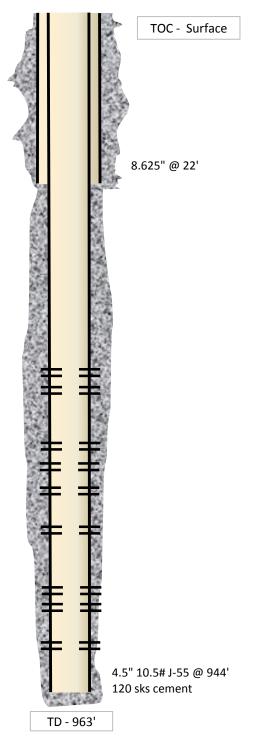
SSI: 622860

API: 15-133-27091

LOCATION: NE NE Sec. 22 28S-19E

COUNTY: Neosho **STATE:** Kansas

	STATE: Kansas
Casing	8.625" @ 22' 4.5" 10.5# J-55, ID 4.05" w/ 0.0159 bbl/ft capacity @ 944'
Perforations	Original Perfs: 10/2/07 - Riverton 838-841' (13) - Neutral 787-789' (9) - Rowe 781-783' (9) - Tebo 628-630' (9) - Fleming 569-571' (9) - Croweburg 535-538' (13) - Bevier 510-512' (9) - Mulky 431-435' (17) - Summit 419-423' (17)
Completions	Spud Date: 8/27/07 RNV Completion: 10/2/07 - 400 gals 15% HCl - 12.1 BPM - 6,800# 20/40 - 708 bbls fluid BCFT Completion: 10/2/07 - 400 gals 15% HCl - 14.6 BPM - 5,000# 20/40 - 682 bbls fluid SM Completion: 10/2/07 - 300 gals 15% HCl - 14.1 BPM - 7,000# 20/40 - 715 bbls fluid



FORMATION:	CROWEBURG	(PERFS):	535 -	538			
FORMATION:	BEVIER	(PERFS):	510	512			
FORMATION:	MULKY	(PERFS):	431	435			
FORMATION:	SUMMIT	(PERFS):	419	423			
FORMATION:	CATTLEMAN	(PERFS):	604	610			
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:	MOUNT OF FLUID PRODUCTIO	(PERFS):		EDVA!			
2 ESTIMATED A FORMATION:		N TO BE COMMINGLED FROM BOPD:	I EACH INT 0 0	MCFPD:	6.22	BWPD:	4.44
2 ESTIMATED A	CROWEBURG BEVIER	N TO BE COMMINGLED FROM	0		6.22 6.22 6.22	BWPD:	4.44 4.44 4.44
2 ESTIMATED A FORMATION: FORMATION:	CROWEBURG BEVIER MULKY	N TO BE COMMINGLED FROM BOPD: BOPD:	0	MCFPD:	6.22	BWPD:	4.44
2 ESTIMATED A FORMATION: FORMATION: FORMATION:	CROWEBURG BEVIER MULKY SUMMIT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD:	0 0 0	MCFPD: MCFPD:	6.22	BWPD:	4.44 4.44
2 ESTIMATED A FORMATION: FORMATION: FORMATION:	CROWEBURG BEVIER MULKY SUMMIT	N TO BE COMMINGLED FROM BOPD: BOPD: BOPD: BOPD: BOPD:	0 0 0 0	MCFPD:	6.22 6.22 6.22	BWPD: BWPD:	4.44 4.44 4.44
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Affida	vit of Notice Served		
Re:	Application for: APPLICATION FOR COMMINGLING	OF PRODUCTION OR FLUIDS ACO-4	
	Well Name: HINES FARMS 22-1	Legal Location: SWNENE S22-T28S-R19E	
The un	dersigned hereby certificates that he / she is a duly authorized agent for	the applicant, and that on the day 23RD of JULY	
2012	, a true and correct copy of the application referenced abo	ve was delivered or mailed to the following parties:	
Note: A	A copy of this affidavit must be served as a part of the application.		
	Name	Address (Attach additional sheets if necessary)	
ADO	CON OIL	906 WEST MAIN, CHANUTE, KS 6	6720
CHF	RISTIAN OPERATING CO	15326 HILLTOP VIEW DR, CYPRESS	, TX 77429
HED	DDEN OIL	205 OSAGE, PO BOX 82, THAYER,	KS 66733
MJ I	ENERGY, LLC	3570 E 12TH AVE, STE 205, DENVER,	CO 80206
MSC	RESOURCES INC	975 1400TH ST, IOLA, KS 66749	
SHA	W ENTERPRISES, INC	RR4, CHANUTE, KS 66720	
SEE	ATTACHED		
	attest that notice of the filing of this application was published in the $\overline{\text{CH}}$	ANUTE TRIBUNE , the official	al county publication
of NE	OSHO cou	unty. A copy of the affidavit of this publication is attached.	
Signed th	is	2	
	# 09004117 EXP. 05/13/13 PUBLIC AND MY COMMISSION OF OKLANDING MINISTER PROPERTY OF OKLANDING MY COMMISSION OF OKLANDING MY COM	capt of Duly Authorized Agent	
III.	Subscribed and sworn to befo	211	2012
	#09004111 EXP. 05/13/13	Knisty D Doen	
	Notal Notal	ry Public	
	OF OR My C	ommission Expires: 5/15/13	

22-28S-19E

NW4 E of River

Oscar H Cunningham Family Trust Cunningham Pearl B Trustee 330 S Nineiron Ct Wichita, KS 67235

Tracts in NE NW

Church Disciples of Christ Trust Lavon Strange 15250 K-47 Hwy Erie, KS 66733

AT&SF & BN&SF Railway Co.s Property Tax Dept PO Box 961089 Fort Worth, TX 76161

Catherine E Thomas 12335 160th Rd Erie, KS 66733

David Robert Gromer June A Short Jr. 636 S Fuller Independence, MO 64052

Guy W Gromer June A Short Jr. 636 S Fuller

Independence, MO 64052

W/2 NE/4 (leased) & tract S of RR in E/2 NE/4

Judith L Moyer 17175 Irving RD Chanute, KS 66720

Tracts in Section 15-28S-19E

Shane M Barnhart 16435 Marshall Rd Erie, KS 66733

Rickey L Holc 16100 Main Erie, KS 66733

Dennis Shultz Jr. 16325 Marshall Rd Erie, KS 66733

Donna I. Florence 139 NE Avondale Bartlesville, OK 74006

Charles W Morse 12485 Robinson Erie, KS 66733

Frank O & Nadine McDonald 12470 Davison Erie, KS 66733

Carl L Shultz 12330 160th Rd Erie, KS 66733

AT&SF & BN&SF Railway Co.s Property Tax Dept PO Box 961089

Fort Worth, TX 76161

William A & Patricia Stich 15305 Jackson Rd Chanute, KS 66720

Elk Creck Agricultural L.P. 14 Woodsborough Houston, TX 77055

Shaw Enterprises Inc 11600 160th Rd Chanute, KS 66720

Pete's Corporation PO Box 794 Parsons, KS 67357

Catherine E Thomas 12335 160th Rd Erie, KS 66733

Disciples Of Christ Dorothy Larue 11400 190th Rd Chanute, KS 66720

Byron Shultz 16015 Marshall Rd Erie, KS 66733

HINES FARMS 22-1 - APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

fset Operators, Unleased Mineral Owners	and Landowners acreage		
lach additional sheets if necessary)			
Name:		Legal Description of Leaseh	old:
EE ATTACHED			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
	e true and correct to the best of my knowledge	and belief.	
MINIMUM INTERNAL PROPERTY OF THE PROPERTY OF T	///		
WILLY D. ISAACIII	(h 12h	70	
STARLO	Applicant or Duly Auti		
1 2 E	Subscribed and sworn before me this	day of JULY	2012
# # 09004117 E	Sabbaraba and swarm balara ma and	0	*
EXP. 00/13/10	Vo. is a	to Dam	~
ALBUIC AND	Notary Public	7 7 00	
THE OF OX ATTITUTE		5/13/13	
# 09004117 EXP. 05/13/13	My Commission Expir	es;	

LEGAL LOCATION	SPOT	CURR_OPERA
S22-T28S-R19E	SW NE NE NW	ADCON OIL
S22-T28S-R19E	SW NE NW	Christian Operating Co.
S22-T28S-R19E	SW NE NW	Christian Operating Co.
S22-T28S-R19E	N2 N2 SW	Christian Operating Co.
S22-T28S-R19E		Hedden Oil
S22-T28S-R19E	SE NE NW	MJ Energy, LLC
S22-T28S-R19E	NW NW NW SE	MJ Energy, LLC
S22-T28S-R19E	NW NW NW SE	MJ Energy, LLC
S22-T28S-R19E	NE SW SW NE	MJ Energy, LLC
\$22-T28S-R19E	SW NW SW NE	MJ Energy, LLC
S22-T28S-R19E	SW NW SW NE	MJ Energy, LLC
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S22-T28S-R19E	NE SW NW SE	MJ Energy, LLC
S22-T28S-R19E	SE SE SE NW	MJ Energy, LLC
S22-T28S-R19E	NW SW SW NE	MJ Energy, LLC
S22-T28S-R19E	SE NE NW	MJ Energy, LLC
S22-T28S-R19E	SE NE NW	MJ Energy, LLC
S22-T28S-R19E	SE NE NW	MJ Energy, LLC
\$22-T28S-R19E	SW SE NE NW	MJ Energy, LLC
S22-T28S-R19E	NW SW NW NE	MJ Energy, LLC
S22-T28S-R19E	NW NW SW NE	MJ Energy, LLC
S22-T28S-R19E	SW SW SW NE	MJ Energy, LLC
S22-T28S-R19E	NE NE SW	MJ Energy, LLC
S22-T28S-R19E	SW SE NE NW	MJ Energy, LLC
S22-T28S-R19E	SW SW NW NE	MJ Energy, LLC
S22-T28S-R19E	NE NE SE NW	MJ Energy, LLC
S22-T28S-R19E	SW NW NW SE	MJ Energy, LLC
S22-T28S-R19E	SW NW SW NE	MJ Energy, LLC
S22-T28S-R19E	SW SW NE	MSG Resources Inc.
S22-T28S-R19E	SW NE NW	Shaw Enterprises, Inc.
S22-T28S-R19E	SW NE NW	Shaw Enterprises, Inc.

22-28S-19E

NW4 E of River

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Disciples Of Christ Dorothy Larue 11400 190th Rd Chanute, KS 66720

Byron Shultz 16015 Marshall Rd Erie, KS 66733 Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

Mark Sievers, Chairman Thomas E. Wright, Commissioner Sam Brownback, Governor

August 8, 2012

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

RE: Approved Commingling CO071232

Hines Farms 22-1, Sec.22-T28S-R19E, Neosho County

API No. 15-133-27091-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on July 24, 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 CO071232 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