

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)

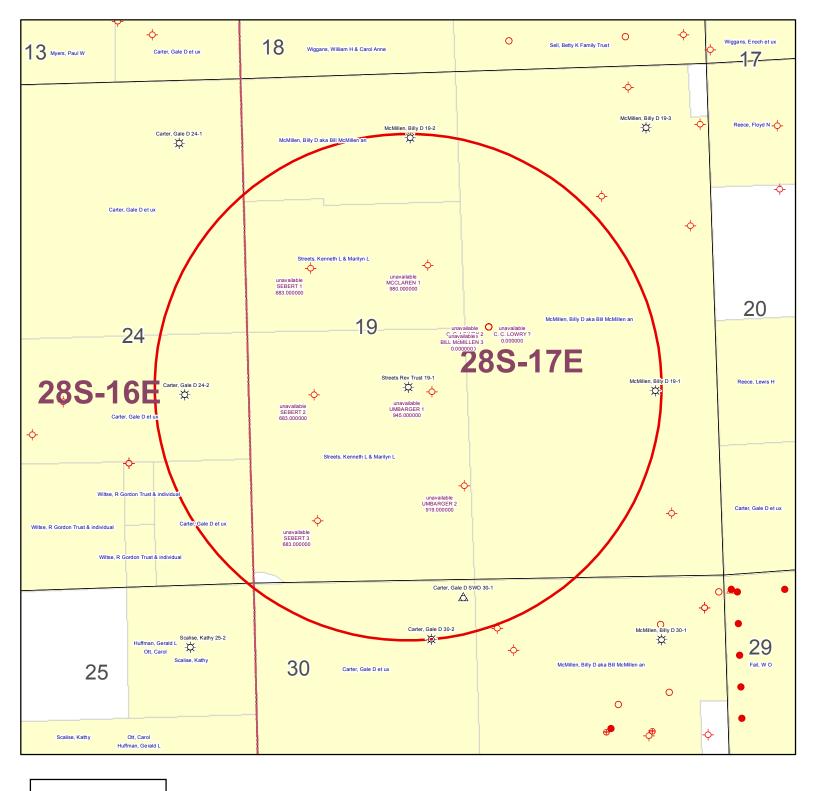
OPERAT	TOR: License #	API No. 15							
Name:_		Spot Description: _							
Address	1:	-	_ Sec Twp	S. R East West					
Address	2:		Feet from No	orth / South Line of Section					
City:			Feet from Ea	st / West Line of Section					
	Person:								
	()	·	Wel	l #:					
_ 1.	Name and upper and lower limit 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:	BOPD:	MCFPD:	BWPD:					
	Formation:	BOPD:	MCFPD:	BWPD:					
	Formation:	BOPD:	MCFPD:	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 affide	of the lessee of record or ope	erator.	ses within a 1/2 mile radius of					
For Con	nmingling of PRODUCTION ONLY, include the following:								
□ 5.	Wireline log of subject well. Previously Filed with ACO-1:	Yes No							
6.	Complete Form ACO-1 (Well Completion form) for the subject	_							
For Con	nmingling of FLUIDS ONLY, include the following:								
7.	Well construction diagram of subject well.								
8.	Any available water chemistry data demonstrating the compat	ibility of the fluids to be comr	mingled.						
current in mingling	VIT: I am the affiant and hereby certify that to the best of my nformation, knowledge and personal belief, this request for comistrue and proper and I have no information or knowledge, which istent with the information supplied in this application.	Sı	ubmitted Electron	ically					
l —	C Office Use Only			t in the application. Protests must be e filed wihin 15 days of publication of					

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

Date: _

Approved By:

15-Day Periods Ends: __



KGS STATUS

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

Streets Rev Trust 19-1 19-28S-17E 1" = 1,000'

-	Α	В	С	D	Е	F	G	Н	1		K
1	Produced Fluids #	В	1	2	3	4	5	11	•	<u> </u>	
	Parameters	Units	Input	Input	Input	Input	Input		Click he	re	Click
3	Select the brines	Select fluid		Ī		V	Ī	Mixed brine:	to run SS	-	
4	Sample ID	by checking						Cell H28 is	to ruii oc	•	Click
5	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.	————		
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			Click
7	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	0.00		Click
9	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.			
10	Na ⁺	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	SI/SR
11	K ⁺ (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		lcite	
	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⁺		1,050.00	2,432.00	2,044.00	1720.00	1740.00				0.13
	Ba ²⁺	(mg/l)						0.00	Da	rite	
.,		(mg/l)						0.00			
	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21		lite	
	Zn ²⁺	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb ²⁺	(mg/l)						0.00	Gyp	sum	
19	Cl	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00
20	SO ₄ ²⁻	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemil	ıydrate	
21	F.	(mg/l)						0.00	-3.96	-3.90	0.06
	Br'	(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		estite	
	CO3 Alkalinity	(mg/l as CO3)	170.00	434.00	237,00	200.00	234.00	241.03	Cen		
_	Carboxylic acids**	(mg/l)						0.00	Inor 6	Sulfide	
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
											-0.00
	Borate	(mg/L) H3BO3						0.00	Zinc	Sulfide	
	TDS (Measured)	(mg/l)	4.040	4.0=4				72781	~		
	Calc. Density (STP) CO ₂ Gas Analysis	(g/ml)	1.038 19.97	1.051 18.76	1.050 22.41	1.048 35.53	1.045	1.047	Calcium	fluoride	
	- ,	(%)		0.0292			33.79	26.16	I C.	-l	
	H ₂ S Gas Analysis*** Total H2Saq	(%)	0.0289	1.00	0.0296	0.0306	0.0151 0.50	0.0269	-0.74	rbonate -0.51	0.23
_	_	(mgH2S/l)	1.00 5.67	5.76	1.00 5.72	1.00 5.54	5.55	5.63		eeded (mg/L)	0.23
34	pH, measured (STP)	pH 0-CO2%+Alk,	5.07	5./0	5.72	5.54	5.55	5.03	Calcite	NTMP	
	Choose one option								Calcite	NIMI	
35	to calculate SI?	2-CO2%+pH	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	BHPMP	
	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00	
	For mixed brines, enter val			mag in Calle (H	(40 H42)						
-	Initial T			` .		44.0	40.0	(Enter H40-H43)		Н	
		(F)	66.0	71.0	70.0	41.0	49.0	60.0	5.69	5.60	1
	Final T	(F) (F)	66.0 66.0	71.0 71.0	70.0 70.0	41.0	49.0	60.0 89.0	5.69 Viscosity (5.60 CentiPoise)	
42	Final T Initial P	(F) (F) (psia)	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	5.69 Viscosity (1.196	5.60 CentiPoise) 0.826	
42 43	Final T Initial P Final P	(F) (F) (psia) (psia)	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 ty (cal/ml/ ⁰ C)	
42 43 44	Final T Initial P Final P Use TP on Calcite sheet?	(F) (F) (psia) (psia) I-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/ ⁰ C) 0.959	
42 43 44 45	Final T Initial P Final P	(F) (F) (psia) (psia)	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	5.69 Viscosity (1.196 Heat Capaci 0.955	5.60 CentiPoise) 0.826 ty (cal/ml/ ⁰ C)	
42 43 44 45 46	Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav.	(F) (F) (psia) (psia) I-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)	
42 43 44 45 46 47 48	Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49	Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier	(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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00	
42 43 44 45 46 47 48 49 50	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) *	(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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51	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) †	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N)	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51	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	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP:	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53	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	(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	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54	Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. API Oil Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP)	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I)	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55	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	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/l) (pH)	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. API Oil Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H ₂ S Gas Total H2Saq (STP)	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I)	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Final T Initial P Final P Use TP on Calcite sheet? API Oil 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 ECations=	(F) (F) (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)	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	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 H ₂ Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated SCations= EAnions=	(F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/l) as HCO3 (equiv./I) (equiv./I)	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 30.00 0.60	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	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 ECations= ECations= Calc TDS=	(F) (F) (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) (mg/I)	66.0 66.0 25.0 25.0	71.0 71.0 25.0 25.0	70.0 70.0 25.0 25.0	41.0 25.0 25.0	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 ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61	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{\Sigma}\$ (STP) Exhions= \$\textit{\Sigma}\$ (STD)= Inhibitor Selection	(F) (F) (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) (mg/I) Input	66.0 66.0 25.0 25.0 0 0	71.0 71.0 25.0 25.0	70.0 70.0 25.0 25.0	41.0 25.0 25.0	49.0 25.0 25.0	60.0 89.0 25.0 120.0 30.00 0 0	5.69 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	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	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 ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time	(F) (F) (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) (mg/I)	66.0 66.0 25.0 25.0	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 ne Gypsum 0.00 Anhydrite	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63	Final T Initial P Final P Use TP on Calcite sheet? API Oil 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 \$\textstyle \text{Calcite}\$ acid \$\text{Lacite}\$ acid \$\text	(F) (F) (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) (mg/I) Input 120	66.0 66.0 25.0 25.0 0 0	71.0 71.0 25.0 25.0 4 1 1 2	70.0 70.0 25.0 25.0 Inhibitor NTMP BHPMP	41.0 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 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	
42 43 44 45 46 47 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	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= £Anions= 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	66.0 66.0 25.0 25.0 0 0 0	# 1 2 3	Inhibitor NTMP BHPMP PAA	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	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne 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	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Final T Initial P Final P Use TP on Calcite sheet? API Oil 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 \$\textstyle \text{Calcite}\$ acid \$\text{Lacite}\$ acid \$\text	(F) (F) (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) (mg/I) Input 120	66.0 66.0 25.0 25.0 0 0	71.0 71.0 25.0 25.0 4 1 1 2	70.0 70.0 25.0 25.0 Inhibitor NTMP BHPMP	41.0 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 ne 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	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	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 H ₂ Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated \$\mathbb{\text{Catluated}}\$ Alkalinity Caclulated \$\mathbb{\text{Catluated}}\$ Eanions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, 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	66.0 66.0 25.0 25.0 0 0 0	71.0 71.0 25.0 25.0 1 1 1 2 3 4	Inhibitor NTMP BHPMP PAA DTPMP	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 ft³ bbl(42 US gal) psia	5.69 Viscosity (1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite 0.00 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	
42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	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 Alkalinity Caclulated ECations= ZAnions= 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) (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	0 0 0 Unit min 1-Yes;0-No #	## 1 2 3 4 5 6	Inhibitor NTMP BHPMP PAA DTPMP PPCA SPA	Unit Converter From Unit C m MPa Bar	49.0 25.0 25.0 25.0 	60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit "F ft ³ bbl(42 US gal) psia	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	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 44 45 46 47 48 49 50 51 52 53 54 55 56 60 61 62 63 64 65 66 67 68	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 H ₂ Saq (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: If you select Mixed,	(F) (F) (Psia) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/I) (pH) (%) (mg/l) as HCO3 (equiv./I) (equiv./I) (mg/l) Input 120 1 4 1 50	0 0 0 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 Value 80 100 1,000 496 10,000	60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit °F ft³ bbl(42 US gal) psia psia psia	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	5.60 CentiPoise) 0.826 ty (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
42 44 45 46 47 48 49 50 51 52 53 54 55 56 60 61 62 63 64 65 66 67 68 69	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) * OH* (Strong base) * Ouality Control Checks at H ₂ 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: % of 1st inhibitor is:	(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) Input 120 1 4	0 0 0 0 Unit min 1-Yes;0-No # # %	## 1 2 3 4 5 6	Inhibitor NTMP BHPMP PAA DTPMP PPCA SPA	Unit Converter From Unit C m MPa Bar	49.0 25.0 25.0 25.0 	60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit "F ft ³ bbl(42 US gal) psia	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	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

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1 September 1999 Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33344	API No. 15 - 205-26627-660-60
Name: Quest Cherokee, LLC	County: Wilson
Address: 211 W. 14th Street	ne sw_ Sec. 19 Twp. 28 S. R. 17 V East West
City/State/Zip: Chanute, KS 66720	1980 feet from (S)/ N (circle one) Line of Section
Purchaser: Bluestem Pipeline, LLC	1810 feet from E / (Wycircle one) Line of Section
Operator Contact Person: Jennifer R. Ammann	Footages Calculated from Nearest Outside Section Corner:
Phone: (<u>620</u>) <u>431-9500</u>	(circle one) NE SE NW SW
Contractor: Name: MOKAT	Lease Name: Streets Rev. Trust Well #: 19-1
License: 5831	Field Name: Cherokee Basin CBM
Wellsite Geologist: Ken Recoy	Producing Formation: Multiple
Designate Type of Completion:	Elevation: Ground: 895 Kelly Bushing: n/a
✓ New Well Re-Entry Workover	Total Depth: 1138 Plug Back Total Depth: 1132.02
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 22' 5" Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1132.02
Operator:	feet depth to surface w/ 134 sx cmt.
Well Name:	feet depth to surface w/ 134 sx cmt.
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content ppm Fluid volume bbls
Plug BackPlug Back Total Depth	Dewatering method used
Commingled Docket No	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
6/10/06 6/13/06 6/20/06	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regular herein are complete and correct to the best of my knowledge.	te the oil and gas industry have been fully complied with and the statements
Signature: Gunnifu R. Ammann	KCC Office Use ONLY
Title: New Well Development Coordinator Date: 10/9/06	Letter of Confidentiality Received
Subscribed and sworn to before me this	If Denied, Yes Date:
20_06.	Wireline Log Received RECEIVED
N. a Vlavasa	Geologist Report Report Report Report CORPORATION COMMISSIO
Notary Public: Data Klauman Tourision Expires: 8-4-2010 My April 1997	Pres 8-4-000 CONSERVATION DIVISION
Appl. Exp	Public - State of Kansas Oires 8-4-2000 CONSERVATION DIVISION WICHITA, KS

Operator Name: Que	est Cherokee, LL	.C	Leas	se Name:	Streets Rev.	Trust	Well #:	1 '
Sec. 19 Twp. 2				nty: _Wilso				
INSTRUCTIONS: SI tested, time tool oper temperature, fluid red Electric Wireline Log	n and closed, flowin covery, and flow rate	g and shut-in pressues if gas to surface to	ires, whether sest, along with	shut-in pre	essure reached	l static level, hyd	rostatic pressure	es, bottorn hole
Drill Stem Tests Take		☐ Yes ☑ N	lo	 ✓L	og Forma	tion (Top), Depth	and Datum	Sample
Samples Sent to Ge	ological Survey	☐ Yes 🗹 N	lo	Nam See	e attached		Тор	Datum
Cores Taken		Yes 🗸 N	lo					
Electric Log Run (Submit Copy)		✓ Yes 🔲 N	lo					
List All E. Logs Run:								
Gamma Ray N Dual Induction Compensated	Log	on Log						
		CAS Report all strings	SING RECORD s set-conductor,		ew Used ermediate, produ	ction, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)		eight s. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
Surface	12-1/4	8-5/8"	20		22' 5"	"A"	4	
Production	6-3/4	4-1/2	10.5#		1132.02	"A"	134	
Mary		ADDITIO	ONAL CEMENT	TING / SQI	JEEZE RECOF	RD		!
Purpose: Perforate Protect Casing	Depth Top Bottom	Type of Cement	t #Sac	ks Used		Type and	Percent Additives	ı
Plug Back TD Plug Off Zone								
Shots Per Foot		TON RECORD - Bridg Footage of Each Interv)e		racture, Shot, Ceme		rd Depti
4		7/777-779/795-79		725-727	400gal 15%HCLw/ 25	bbls 2%kcl water, 800bbls wat	er w/ 2% KCL, Blocide, 2000	0# 20/40 sand 861-863/845
					İ		ידו-דוד	9/795-797 7:39-742/72
4	649-653/636-64	10			300gal 15%HCLw/ 38	obls 2%kol water, 885bbls wat	er w/ 2% KCL, Blocide, 13000	0# 20/40 sand 6/49-653/630
TUBING RECORD 2-	Size -3/8"	Set At 1124.5	Packel n/a	r At	Liner Run	Yes Z	No	
Date of First, Resume	rd Production, SWD or	Enhr. Producin	ng Method	Flowin	g 🔽 Pum	ping Gas	Lift Oth	er (Explain)
Estimated Production Per 24 Hours	oii n/a	Bbls. Gas	Mcf	Wat 59bb		Bbls.	Gas-Oil Ratio	Gravity
Disposition of Gas		COMPLETION			Production Int	erval		
Vented ✓ Sold (If vented, S	Used on Lease ubmit ACO-18.)	Open	Hole ✓ Pe	erf.	Dually Comp.	Commingled		



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

TICKET NUMBER 1584 FOREMAN(

TREATMENT REPORT & FIELD TICKET CEMENT

DATE		WEL	L NAME & NUMBER	3	SECTION	TOWNSHIP	RANGE	COUNTY
June 20, 2006	Streets	Par. Tr	st 19.1		19	<u> </u>	17	Wilson
FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUC HOUR	- 1	EMPLOYEE SIGNATURE
Chana P. r.	6:45	10:15	- 1/0	902427		3.50	2	ent >
Firet	4:30			70329克		3.79		gring CANIN
Wars TO	7:00			903206		3,25	- /4	ko Truis
Joe By	7:00	<u> </u>		90313-9-	732115 R	3.26	5 -	10e Blue
4+ 4 -	7:00		1.	931315		3.25	- /	
(See) 1	6:30	d		Extro		13.75	, است	12/1
JOB TYPE (ougst-	HOLE S	SIZE 62	<u>/·</u> +	HOLE DEPTH 1/13	8 CASI	NG SIZE & W	VEIGHT 🕗	4.510.5
CASING DEPTH //				UBING	OTHE	ER		
SLURRY WEIGHT/	<u>/ ≤</u> SLURA	Y VOL	·v	VATER gal/sk	CEMI	ENT LEFT in	CASING_	
DISPLACEMENT /	<u> २०६</u> DISPLA	ACEMENT F	PSI N	MIX PSI	RATE	40 6	>h(
REMARKS:								
Par Dear	of prem	ael au	Newspt -	10 surface	. Installed	1 cemen.	1 head	, punped
I SALK of a	el, 12 bo	irels (due and	Lacils	of cement	to se	t due	40
curfore Ft.	strol Dumi	n oum	ord wiper	od of pula	Hom set	floalsh	o Pira	
			•	,,	,			
					4.			
								* 12 4
	1132.0	2	rille casi	иа				
·	6		centralize	•				
901300	1.5		casina tro					
407253	1.5		casina troi					
ACCOUNT CODE	QUANTITY or		, ,	DESCRIPTION OF SE	ERVICES OR PRODU	CT '		TOTAL AMOUNT
703427	3.5 U	<i>h</i> ,	Foreman Pickup			.		
903/97	3.75	N/	Cement Pump Truc	k				
903266	3.25	7. /	Bulk Truck					
1104	134	٠	Portland Cement					
1124	1		50/50 POZ Blend C	Cement_ Coffe	s 3%			
1126	/		OWC - Blend Ceme	ent 4, voyer	n/sa			
1110	12	50	Gilsonite					
1107	/	31	Flo-Seal		KANSAS CORI	ECEIVED	Manage	
1118		<u>3 sr</u>	Premium Gel					
1215A	1 30		KCL		UC	1 0 200	5	
1111B	3`_	35	Sodium Silicate	lehior ele	CONSER	VATION DIVIS	ION .	19.46
1123	2000	,	City Water		W	CHITA, KS	NON	** 15.5
903139	3.25	100	Transport Truck					
93275	2 25	he.	Transport Trailer					
7=1 505 Revin 4513	<u> </u>	177	5/2 Stood					
1			1/2 44.041	J / 1 0 E			'	



M.O.K.A.T. DRILLINGOffice Phone: (620) 879-5377



P.O. Box 590 Canev. KS 67333

		-4	TOPA				EQ.	(ACTS)			Can	uy, ixu	Or odd
Operator	UEST CHEROKEE	Well No.		Lease		Loc.		1/4 1/4	. 1/4	Se	c. Tv	/p.	Rge,
·	OEST CHEROKEE	19-	-1	SI	REETS						19	28	17
		County	<u></u>	State		Type/Well		Depth	Hou	s Da	ate Started	Date	Completed
		WIL	SON		KS			1138'	ļ	ļ	6/10/06		6/13/06
Job No.	Casing Used			В	il Record	1				Coring	Record		
	22' 5"	8 5/8"	Bit No.	Туре	size	From	То	Bit No.	type	Size	From	To	% Rec.
Oriller	Cement Used										T		<u> </u>
HUNEYCU'	rt	4		1	6 3/4"						1		
Driller	Rig No.				1				1				
~W		2							}			1	
iler .	Hammer No.				 					1	<u> </u>		
											İ		
									1	1	1	i .	1

	Formation Record											
From			Formation	From		Formation	From	To	Formation	From	To	2Formation
0	11		OVERBURDEN		580	COAL (LEXINGTON)			TOO MUCH WATER TO TEST FROM 712'	 		2 2
11_	18		LIME		601	SHALE						
18	38		SHALE	586		GAS TEST (NO GAS)			T.D. 1138'			2006 S S S S
38	60		SAND (WATER)		618	SAND					****	1 28 A 25
60	64				620	COAL (OSWEGO)						M\$ - 5E
64	108		LIME	620	638	LIME						T POSA WATIO
108	134		SAND			COAL (SUMMIT)						CE CO BE
134	150		SHALE		651	LIME						O W Z
150	257		LIME	651	653	COAL (MULKEY)					· · · · · · ·	\$ 8
257	288	3	SAND (WATER)			SHALE						3
288	298	1	LIME		665	COAL (STRAY)						2
298	300					LIME						
300	310					SANDY SHALE (WATER)						
0	314		SHALE	712		GAS TEST (10# 1/8")						
4	342		LIME _		739	COAL (BEVIER)						
342	351				740	LIME (VERDIGRIS)						
351	401					SANDY SHALE						
401	413				775	COAL (CROWBERG)						
413	424			775	794	SANDY SHALE						
424	429	15				COAL (FLEMING)						
429	432			796	860	SANDY SHALE						
432	437				861	COAL (TEBO)						
437	451]	LIME	861		SANDY SHALE						
451	464			867	868	COAL (WEIR)						
464	465					SANDY SHALE						
465	476				918	SAND (BARTLESVILLE)						
476	491		SHALE		940	SUGAR SAND						
491	547				1038	SAND (WATER)						
547	551		LIME			COAL (RIVERTON)						
551	552			1040		SANDY SHALE	T					
552	578		IME	1057	1138	LIME (MISSISSIPPI)						

POSTROCK



Current Completion

SPUD DATE: 6/10/2006

COMP. DATE : 6/20/2006 API: 15-205-26627-00-00

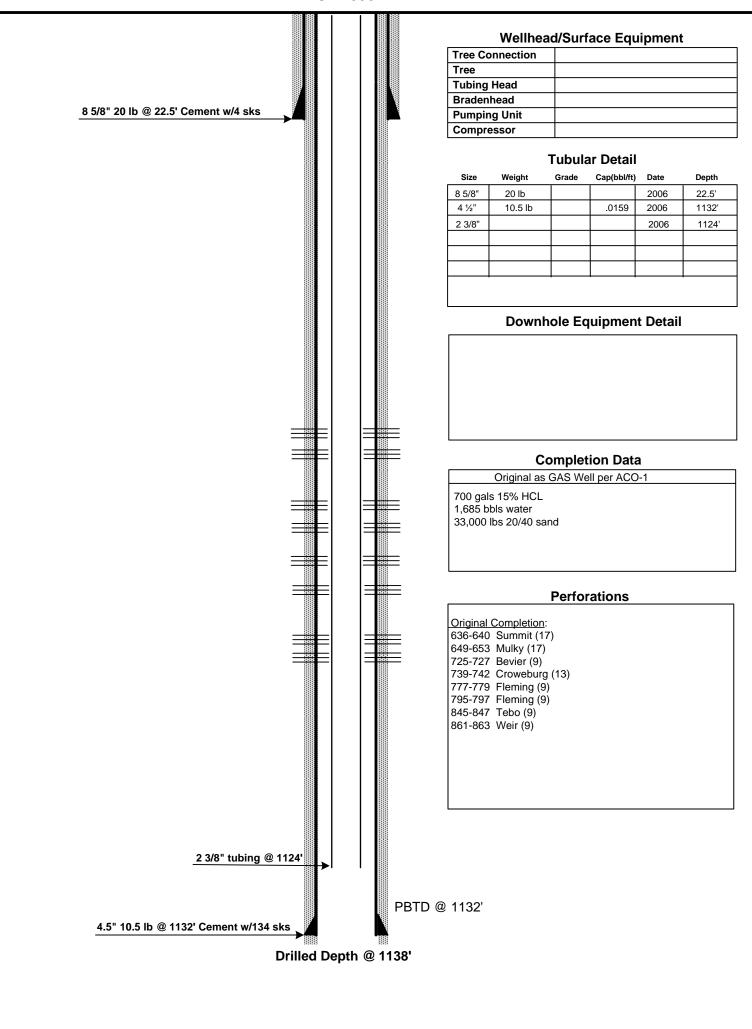
WELL : Streets Rev Trust 19-1

FIELD : Cherokee Basin

STATE : Kansas COUNTY : Wilson

LOCATION: 19-28S-17E (NE,SW)

ELEVATION: 895'



PREPARED BY: POSTROCK APPROVED BY: _

DATE: July, 2012

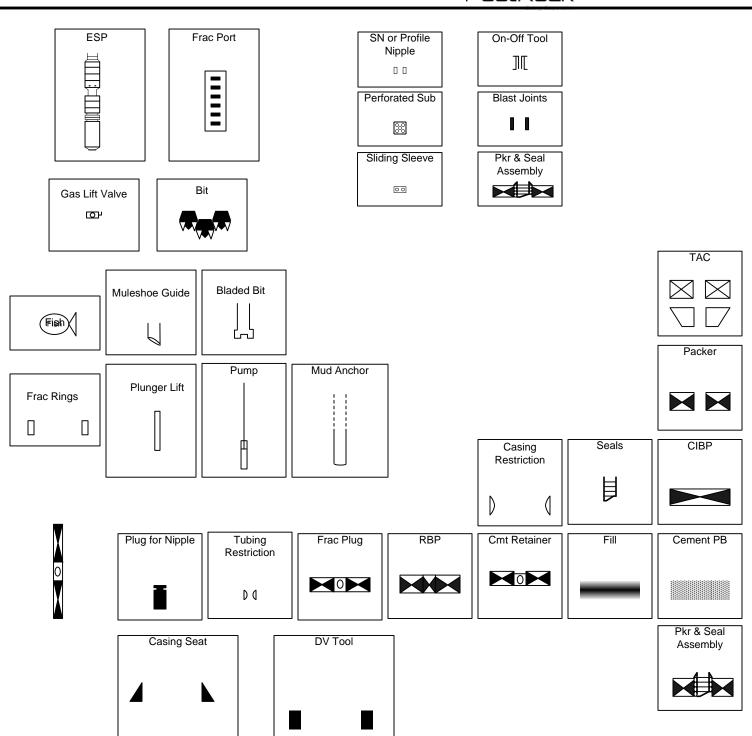
DATE:_

POSTROCK



LEGEND

PostRock[®]



AFFIDAVIT

STATE OF KANSAS

SS.

County of Sedgwick

Mark Fletchall, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for 1 issues, that the first publication of said notice was

made as aforesaid on the 17th of

August A.D. 2012, with

subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

Subscribed and sworn to before me this

17th day of August, 2012

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

Notary Public Sedgwick County, Kansas

Printer's Fee: \$139.60

LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE
AUGUST 17,2012 (3201727)
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 Streets
Rey Trust 19-1 located in Wilson County,
Kansas

Kansas. TO: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whomever concerned.

Interest Owners, Landowners, and all persons whomever concerned.
You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filed an application to commingle the Summit, Mulky, Bevier, Croweburg, Fleming, Tebo, Weir and Squirrei producing formations at the Streets Rev Trust 19-1, located in the SEMWNESW 519-T285-R17E, Approximately 2013 FSL & 1681 FWL, Wilson County, Kansas. Any persons who oblect to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within lifteen (15) days from the dale of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons with 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 witshing 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

Conservation Division of the Ransas of and Gas Commission.

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

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

A COPY OF THE AFFIDAVIT OF PUBLICATION MUST ACCOMPANY ALL

APPLICATIONS

PROOF OF PUBLICATION

STATE OF KANSAS Wilson County - SS

JOSEPH S. and RITA M. RELPH, of lawful age, being duly sworn upon oath that they are the Owners and Publishers of the WILSON COUNTY CITIZEN:

THAT said newspaper has been published at least weekly fifty (50) times a year and has been so published for at least five years prior to the first publication of the attached notice:

THAT said newspaper is a general circulation on a daily, or weekly, or monthly, or yearly basis in;

WILSON COUNTY, KANSAS and is NOT a trade, religious or fraternal publication and has been PRINTED and PUBLISHED in Wilson County, Kansas.

THE ATTACHED was published on the following dates in a regular issue of said newspaper: 1st publication was made on the 2nd publication was made on the_ 3rd publication was made on the_____ 4th publication was made on the_____ 5th publication was made on the_____ 6th publication was made on the_____

Subscribed and sworn to before me, this

My commission expires

(Published in the Wilson County Citizen on Thursday, August 16, 2012.)

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 Streets Rev Trust 19-1 located in Wilson County, Kansas.

TO: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons

whomever concerned.

You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filed an application to commingle the Summit, Mulky, Bevier, Croweburg, Fleming, Tebo, Weir and Squirrel producing formations at the Streets Rev Trust 19-1, located in the SENWNESW S19-T28S-R17E, Approximately 2013 FSL & 1681 FWL, Wilson County, Kansas.

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

All persons interested or concerned shall take notice of the foregoing and shall govern them-selves 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 79102 (405) 660-7704 52 1 сру.



Rita M. Reiph NOTARY PUBLIC State of Kansas STATE OF KANSAS I MV Commission Expires

STREETS REV TRUST 19-1

1 NAME & UPPER	R & LOWER LIMIT OF EACH PRODUCTIO	N INTERVAL TO BE	COMMING	LED			
FORMATION:	FLEMING	(PERFS):	795 -	- 797			
FORMATION:	TEBO	(PERFS):	845 -	847			
FORMATION:	WEIR	(PERFS):	861 -	863			
FORMATION:	SQUIRREL	(PERFS):	668	672			
FORMATION:	SQUIRREL	(PERFS):	679 -	- 682			
FORMATION:		(PERFS):		-			
FORMATION:		(PERFS):		-			
FORMATION:		(PERFS):		-			
FORMATION:		(PERFS):		·			
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FORMATION:		(PERFS):		-			
FORMATION:		(PERFS):		-			
2 ESTIMATED AM	MOUNT OF FLUID PRODUCTION TO BE C	OMMINGLED FROM	1 EACH INT	ERVAL			
FORMATION:	FLEMING	BOPD:	0	MCFPD:	5.5	BWPD:	5
FORMATION:	TEBO	BOPD:	0	MCFPD:	5.5	BWPD:	5
FORMATION:	WEIR	BOPD:	0	MCFPD:	5.5	BWPD:	5
FORMATION:	SQUIRREL	BOPD:	1.5	MCFPD:	0	BWPD:	10
FORMATION:	SQUIRREL	BOPD:	1.5	MCFPD:	0	BWPD:	10
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
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		Indiana and a second a second and a second and a second and a second and a second a	
Affida	rit of Notice Served		
Re:	Application for: APPLICATION FOR COMMINGL	ING OF PRODUCTION OR FLUIDS ACO-4	
	Well Name: STREETS REV TRUST 19-1	Legal Location: SWNWNESW S19-T28S-R17	Ξ
The und	ersigned hereby certificates that he / she is a duly authorized ago	ent for the applicant, and that on the day 10th of SEPTEMBEF	₹,
2012		ed above was delivered or mailed to the following parties:	
	, a true and correct copy of the application releience	ed above was delivered of 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)	
SEV	ENTH DAY ADVENTIST CHURCH	121 N 14TH ST, FREDONIA, KS 6	6736
OL V	ENTIDAT ADVENTIST CHORCH	1211 1411131,1 NEDONIA, NO 0	0730
I further a	ttest that notice of the filing of this application was published in t	he THE WILSON COUNTY CITIZEN , the offici	ial county publication
of WI		county. A copy of the affidavit of this publication is attached.	
01		county. A copy of the annuavit of this publication is attached.	
Signed th	is // day of SEPTEMBER	2012	
		CHA CA	
		Applicant or Duly Authorized Agent	
		1 at the	2012
	Subscribed and sworn	to before me this day ofSEPTEMBER	, 2012
	JENNIFER R. BEAL	Quantity & Beal	
	OFFICIAL MY COMMISSION EXPIRES	Notary Public	• ` ` `
	1 00 2010	My Commission Expires: Quely 30, 2016	·
		0 0	
			ı

Name: Legal Description of Leasehold:		
Control of the delicional sheets if necessary) Name: Legal Description of Lessehold: SW4 (SMALL TRACT) S19-T28S-R17E The statements made herein are true and correct to the best of my knowledge and belief. Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER JENNIFER R BEAL MY COMMISSION EXPIRES And Commission Expires: Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Applicant or Duly Authorized Agent Subscribed and sworn before me this Discontinuous day of SEPTEMBER Applicant or Duly Authorized Agent Applicant or Duly A	set Operators, Unleased Mineral Owners and Landowners acreage	
by cartify that the statements made herein are true and correct to the best of my knowledge and belief. Applicant or Duly Authorized Agent Subscribed and sworn before me this Dotted day of SEPTEMBER 2012 SERVIFER REAL MY COMMISSION EXPRES My Commission Expires: Gully Du Que My Commission Expires: Gu	ach additional sheets if necessary)	
Subscribed and sovern before me this Subscribed and sovern before me this Subscribed Property of September 2012 Septimal WY COMMISSION EXPIRES Notary Public My Commission Expires: All y 280, 2016	Name:	Legal Description of Leasehold:
by certify that the statements made harein are true and correct to the best of my knowledge and belief. Applicant or Duly Authorized Agent Subscribed and severn before me this Official day of SEPTEMBER 2012 JERNIFER R BEAL Notary Public My Commission Expires: April 20, 2016	VENTH DAY ADVENTIST CHURCH	SW4 (SMALL TRACT) S19-T28S-R17E
Subscribed and sworn before me this 10 th day of SEPTEMBER 2012 JENNIFER R. BEAL MY COMMISSION EXPIRES 7-20-2010 My Commission Expires: July 20, 2016		•
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Subscribed and sworn before me this 10 th day of SEPTEMBER 2012 September 1	by certify that the statements made herein are true and correct to the best of	f my knowledge and belief.
	Subscribed and sworn before	are me this 10th day of SEPTEMBER ,2012
	My Co	ommission Expires: Ally 80, 3016
		•

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

September 25, 2012

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

RE: Approved Commingling CO091203

Streets Rev Trust 19-1, Sec. 19-T28S-R17E, Wilson County

API No. 15-205-26627-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on September 11, 2012, has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period.

Based upon the depth of the Weir 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 CO091203 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