

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1097414

Form ACO-4 Form must be typed March 2009

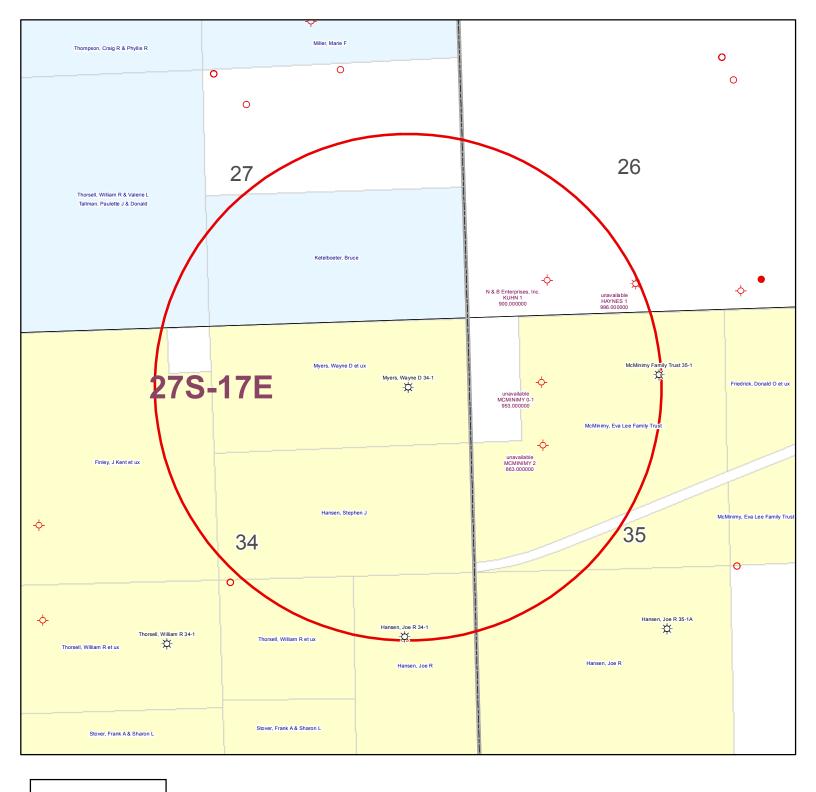
APPLICATION FOR COMMINGLING OF Commingling ID # _ PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERAT	OR: License #	API No. 15				
Name:_		Spot Description:				
Address	1:		_ Sec Twp	S. R East West		
Address	2:		Feet from Nor	rth / South Line of Section		
City:			Feet from Eas	st / West Line of Section		
Contact I	Person:	County:				
Phone:	()	Lease Name:	Well	#:		
<u> </u>	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	each interval:				
	Formation:		MCFPD:	BWPD:		
	Formation:			BWPD:		
	Formation:			BWPD:		
			_			
	Formation:			BWPD:		
	Formation:	ВОРО:	MICFPD:	BWPD:		
□ 3.	Plat map showing the location of the subject well, all other well the subject well, and for each well the names and addresses of	•	•	es within a 1/2 mile radius of		
4.	Signed certificate showing service of the application and affida	avit of publication as require	d in K.A.R. 82-3-135a.			
For Com	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 Com	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 com	mingled.			
current in mingling	/IT: I am the affiant and hereby certify that to the best of my formation, 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 Electroni	ically		
l —	S Office Use Only			in the application. Protests must be filed wihin 15 days of publication of		

Date: _

15-Day Periods Ends: _____

Approved By: _



KGS STATUS

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

Myers, Wayne D 34-1 34-27S-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}}\$ Exhions= 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 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 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 Converte 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 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 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

ORIGINA Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33344	API No. 15 - 205-26807~00-60
Name: Quest Cherokee, LLC	County: Wilson
Address: 211 W. 14th Street	ne_ne_ Sec. 34 Twp. 27 S. R. 47 V East West
City/State/Zip: Chanute, KS 66720	feet from S / (N) circle one) Line of Section
Purchaser: Bluestem Pipeline, LLC	660 feet from (E) W (circle 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: Michael Drilling	Lease Name: Myers, Wayne D. Well #: 34-1
icense: 33783	Field Name: Cherokee Basin CBM
Wellsite Geologist: Ken Recoy	Producing Formation: Multiple
Designate Type of Completion:	Elevation: Ground: 1022 Kelly Bushing: n/a
New Well Re-Entry Workover	Total Depth: 1186 Plug Back Total Depth: 1180.41
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 22 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
	If yes, show depth setFeet
Dry Other (Core, WSW, Expl., Cathodic, etc)	If Alternate II completion, cement circulated from 1180.41
If Workover/Re-entry: Old Well Info as follows:	feet depth to surface w/ 134 sx cmt.
Operator:	
Well Name:	Drilling Fluid Management Plan Alf 1 KgR 11/01/6
Original Comp. Date: Original Total Depth:	(Data must be collected from the Heserve Pft)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content ppm Fluid volume bbls
Plug Back Total Depth	Dewatering method used
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	Operator Name:
Other (SWD or Enhr.?) Docket No	
7/11/06 7/12/06 7/21/06	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R 🗍 East 🗍 West
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workow Information of side two of this form will be held confidential for a period of	h the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, ver or 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-s and geologist well report shall be attached with this form. ALL CEMENTING s. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulation are complete and correct to the best of my knowledge.	late the oil and gas industry have been fully complied with and the statements
Signature: Jannifa R. Ammann	KCC Office Use ONLY
Title: New Well Development Coordinator Date: 11/10/06	Letter of Confidentiality Received
Subscribed and sworn to before me this 10th day of 1000mbe	If Denied, Yes Date:
$\frac{\partial \mathcal{Q}}{\partial \mathcal{Q}}$.	Wireline Log Received RECEIVED Geologist Report Received RECEIVED
Notary Public: Down Klauman	UIC Distribution NOV 1 3 2006
Date Commission Expires: 8-4-3010	
A TE	RRA KLAUMAN y Public - State of Kansas ires & -4-20 /D

Operator Name: Q	uest Cherokee, L	LC		ne: Myers, Way	ne D.	*^ Well #; <u>34-</u>	1
Sec Twp	27 S. R. 17	_	County: W	ilson		-	
tested, time tool op temperature, fluid r	en and closed, flowi ecovery, and flow rat	and base of formations ng and shut-in pressure tes if gas to surface test of final geological well sit	s, whether shut-in , along with final o	pressure reache	d static level, hyd	rostatic pressur	es, bottom hole
Drill Stem Tests Tal		☐ Yes 📝 No	5	Z Log Forma	ition (Top), Depth	and Datum	Sample
Samples Sent to G	eological Survey	☐ Yes 🗸 No		lame ee attached		Тор	Datum
Cores Taken Electric Log Run (Submit Copy)		☐ Yes ☑ No ☑ Yes ☐ No					
ist All E. Logs Rur	n:						
Compensated Dual Induction Gamma Ray	_	on Log					
			G RECORD	New Used			
Purpose of String	Size Hole	Report all strings se	t-conductor, surface, Weight	Setting	ction, etc.	# Sacks	Type and Percent
	Drilled	Set (In O.D.)	Lbs. / Ft.	Depth	Cement	Used	Additives
Surface	12-1/4	8-5/8"	20	22	"A"	4	
Production	6-3/4	4-1/2	10.5#	1180.41	"A"	134	
		ADDITIONA	AL CEMENTING / S	QUEEZE RECOR	D	•	
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	·	Type of Cement	#Sacks Used		Type and	Percent Additives	
Shots Per Foot		TON RECORD - Bridge Plus Footage of Each Interval P			acture, Shot, Ceme Amount and Kind of N		d Depth
	1115-1117			200gal 15%HCLw/ 58bl	ols 2%kol water, 132bbls water	r w/ 2% KCL, Biocide, 1250#	30/70 sand 1115-1117
	932-934/897-89	9/843-845/809-812/	792-794	400gal 15%HCLw/ 52bl	ols 2%kol water, 901bbls water	w/ 2% KCl., Blocide, 16500	# 30/70 sand 932-934/897-89
	715-719/705-70	9		400gal 15%HCl.w/ 46bb	els 2%kol water, 575bbis water	·	843-845 809-812/792-794 30/70 send 715-719/705-709
TUBING RECORD 2-	Size -3/8"	Set At 1147.52	Packer At n/a	Liner Run	Yes V No	0	
Date of First, Resume 10/30/06	rd Production, SWD or I	Enhr. Producing Me	ethod Flow	ving ✓ Pump	ing Gas L	ift	τ (Explain)
Estimated Production Per 24 Hours	oii n/a	Bbls. Gas 20.3mcf	i	later i	3bls.	Gas-Oil Ratio	Gravity
Disposition of Gas	METHOD OF	COMPLETION		Production Inte	rval		
Vented Sold	Used on Lease ubmit ACO-18.)	Open Hole Other (Spe		Dually Comp.	Commingled		
		MANIE	TERRAKLAL	, A			

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Company:	Quest Cherekee LLC	Date:	67/12/06	
	9520 North May Ave, Suite 300	Lease:	Myers, Wayne D.	
• •	Oklahoma City, Oklahoma 73120	County	Wilson	
	Donnie Meyers	Well#: API#:	34-1 15-205-26807-00-00	

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
-22	Overburden	703-710	Black Shale
2-31	Lime	709	Gas Test 10" at 1/2" Choke
1-61	Sand	710-716	Lime
1-107	Lane	716-718	Black Shale
07-234	Wet Sand	718-719	Coal
34-238	Lime	719-740	Sandy Shale
38-240	Sandy Shale	734	Gas Test 20" at 3/4" Choke
240-311	Lime	740-784	Send
311-331	Shale	784-790	Shale
331-353	Line	790-792	CORI KANSAS CORPORATION COMMISSION
353-357	Bisck Shale	792-807	Shake NOV 1 3 2006
357-437	Lime	897-898	i ine
437-483	Shale	808-810	CONSERVATION DIVISION CORI WICHITA, KS
483-501	Sand	B10-842	Shale
501-580	Black Shale	842-845	Coal
580-618	Sandy Shale	845-858	Sandy Shale
618-621	Lime	858-861	Coal
621-624	Coal	861-897	Sand
624-650	Line	397-899	Coni
650-653	Black Shale	899-915	Shale
653-686	State	915-916	Coal
686-587	Coal	916-935	Sand
687~703	piere	935-938	Coal
700 .	Gas Test 10" at 1/2" Choke	938-1122	Water and Sand

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Michael Drilling, LLC P.O. Box 402 Iola, KS 66749 620-365-2755

Company:	Quest Charokee LLC	Date: 07/12/06	A CONTRACTOR OF THE SECOND
Address:	9520 North May Ave, Suite 300	Lease: Myers, Wayne	D.
	Oklahoma City, Oklahoma 73120	County: Wilson	
Ordered By	/: Donnie Meyers	Well#: 34-1	AD AD

Drilling Log

FEET	DESCRIPTION	FEET	DESCRIPTION
L22	To Much Water For Gas Test		
122-1123	Coni		
123-1138	Shale		
138-1186	Missippi Lime		
186	To Mach Water For Gas Test		
186	TD		
	Serface 22		
			,
			
			



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

TICKET NUMBER 1700

FIELD TICKET REF #

FOREMAN Cran Cooduce

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	**************************************	WELL	NAME & NUMBER	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	SECT	ION .	TOWNSHIP -	, RANG	GE . C	OUNTY :	
July 51 2006	· Mugas U)ane	0. 54.1		311		27	ノフ	u	11 on	
FOREMAN / OPERATOR	TIME	TIME	LESS LUNCH	TRUCK #	TRAILE	R	TRUCK		EMPL SIGNA		
Cro . C	10:4/5	6:00		902427			7.2	ζ-	O.E.	50	<u>r</u>
Tim A.		5/30		303255			5.7	5	7	مگنشد سیسی	
Mover CV K	<u> </u>	11:00		903230			4.2	5	M	111	-
Dovid C		6:00		903/1/0	9354/	5 7	5.4		<i>I/a</i>	u De San	14
Troy au		5:15		902106			5.50		May 1	eloty	إ
EUSSPIL M.	<u> </u>	3:30		Fales	<u> </u>		14.7)	Jan-	-	+
JOB TYPE / Over	<u>inge</u> HOLES	SIZE <u>(, 3 /</u>	<u>′/</u> H	IOLE DEPTH	50	CASIN	IG SIZE & WE	IGHT_	2//2.	105	
CASING DEPTH 🚣	<u>/ 名つ: 9//</u> DRILL F	PIPE	Т	UBING		OTHE	R				
SLURRY WEIGHT_	<u> 272.5</u> SLURR	Y VOL		ÁTER gal/sk		CEME	NT LEFT in C	ASING	<u></u>		
DISPLACEMENT /	932 DISPLA	CEMENT PS	il N	1IX PSI		RATE	100	177			
REMARKS:											
Ran 2 soil	KI at col.	and s	wood to	Sur Doce -	Toitelle	1	conou-	Do	20		
Ownsped &	2 SON KI 21	col 12	Dedue 50	nol 134	C00 ((1	90	1emes	2	75		en e
201 OCIA	Ja Stui Co	6 F1.4	1.0	p. pumpe		~ ^ ~	1. 1.	bod	Yam		-
cel Marth	<u>-12, 0,461</u>	<u>(* </u>	Ki pon	P. Pornie	0	200	29 40	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	, G/-, /		
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932900	2	<u> </u>	posing lu	reiler				-3			
ACCOUNT CODE	QUANTITY or U	INITS		DESCRIPTION OF SE	RVICES OR P	RODUC	T		TO [*] AMC		
702827	7.25)., F	oreman Pickup				~				
903,255	5.75		ement Pump Truck								1
903230	4.25	pe B	ulk Truck								
1104	107) (/ P	ortland Cement						_	Maria	
1124			0/50 POZ Blend Co	ement							
1126	1	6	WC Blend Ceme	nt 4/2 Us.per	plus.		DECEN	/FD			
1110	10		ilsonite		,	KANSAS	RECEN SCORPORATION		MISSION		
1107	/	5 (C F	lo-Seal	· · · · · · · · · · · · · · · · · · ·							
1118	9	54 P	remium Gel				NOV 1 3	ZUUD			ļ
1215A	1001		CL				ONSERVATION	DIVISI	ON	- 1-24	1
1111B) 6			alchlor de			WICHITA,	KS	130	se assi-	alie if time
1123	7000 gc	(1)	ity Water								
703140	525		ransport Truck								-
982457	7.25		ransport Trailer			····					1
903106	5,50	7.17	0 Vac	<i></i>							Ţ
Ravin 4513	/		1/2 Slace	1 shap							1

POSTROCK



Current Completion

WELL: Myers, Wayne D 34-1

FIELD : Cherokee Basin

STATE : Kansas COUNTY : Wilson

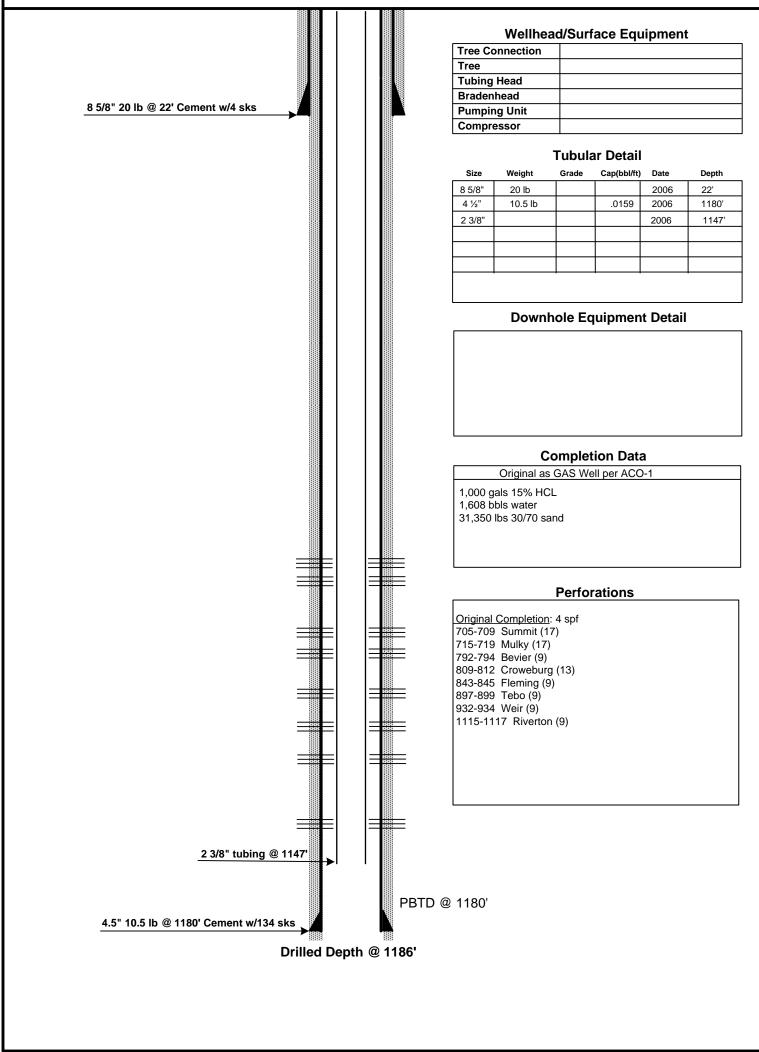
PREPARED BY: POSTROCK

APPROVED BY: _

SPUD DATE : 7/11/2006 COMP. Date : 7/21/2006 API: 15-205-26807-00-00

LOCATION: 34-27S-17E (NE,NE)

ELEVATION: 1022'



DATE: Oct, 2012

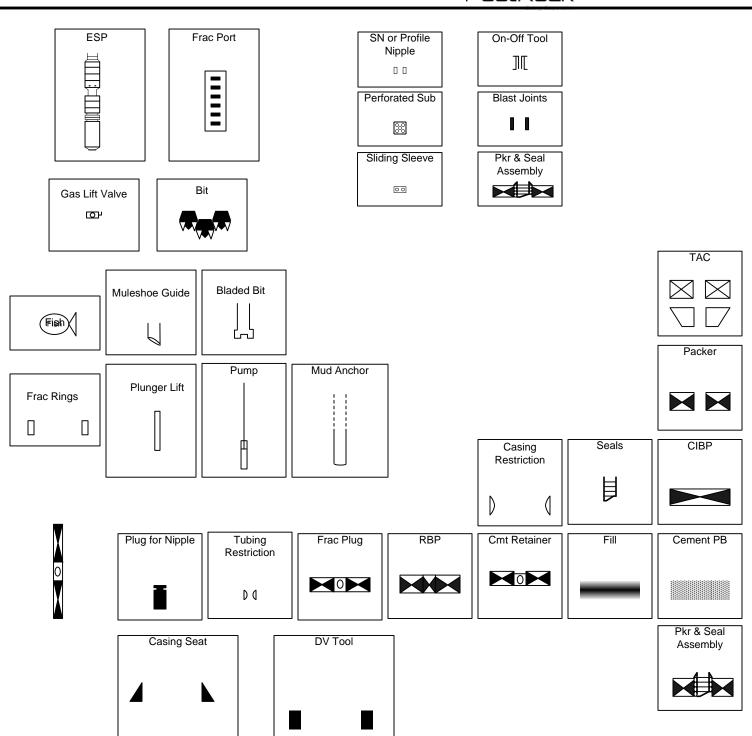
DATE:_

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 9th of

November A.D. 2012, with

subsequent publications being made on the following dates:

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

Fletchall

Subscribed and sworn to before me this

9th day of November, 2012

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

Notary Public Sedgwick County, Kansas

Printer's Fee: \$132.40

LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE NOVEMBER 9, 2012 (3216887) 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
Commissipling of Production in the Myers,
Wayne D 34-1 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 Midcentinent Production, LLC has filed an application to commingle the Summit, Mulky, Bevier, Croweburg, Fleming, Tebo, Weir, Riverton, Squirrel and Barlesville producing formations at the Myers, Wayne D 34-1, located in the NW SE NE NE, \$34-T275-

34-1, located in the NW SE NE NE, S34-T275-R17E, Approximately 704 FNL & 638 FEL, Wilson County, Kansas.

Any persons who object to or protest his application shall be required to tile their objections or protest with the Conservation Division of the State Oroporation 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 regulations and must state specific reasons why granting the application may cause waste, violate correlative rights or poliute 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 tile a written protest with the Conservation Division of the Kansas Oll and Gas Commission.

Gas Commission.

Upon the receipt of any protest, 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 fineir own behalf. Postrock Midcontinent Production, LLC 210 Park Avenue, Suite 2750

Oklahoma City, Oklahoma 73102
(405) 660-7704

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	day of
- Novem	ber 20 12
2nd publication was made on the	day of
	. 20———
3rd publication was made on the	day of
	. 20
4th publication was made on the	day of
	. 20
5th publication was made on the	day of
	. 20
6th publication was made on the	day of
	20
TOTAL PUBLICATION FEE; \$_	3/
(Signed) Joseph & Kelps	L'
Subscribed and sworn to before me, this	9th day of
November	. 20/2
Arta M. Relye	(Notary Public)
My commission expires aug.	30 2014

(Published in the Wilson County Citizen on Thursday, November 8, 2012.)

BEFORETHE 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 Myers, Wayne D 34-1 located in Wilson County, Kansas.

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Postrock Midcontinent Production, LLC 210 Park Avenue, Suite 2750 Oklahoma City, Oklahoma 73102 (405) 660-7704 76 1 cpy.



1	NIANAE & LIDDED &	2. LOWED LIMIT OF EACH	PRODUCTION INTERVAL	TO BE COMMINGLED
	NAIVIE & UPPER &	V LUVVEK LIIVII I DE FAUT	PRODUCTION INTERVAL	

FORMATION:	TEBO	(PERFS):	897 -	899
FORMATION:	WEIR	(PERFS):	932 -	934
FORMATION:	RIVERTON	(PERFS):	1115 -	1117
FORMATION:	SQUIRREL	(PERFS):	747 -	755
FORMATION:	BARTLESVILLE	(PERFS):	942 -	946
FORMATION:	BARTLESVILLE	(PERFS):	953 -	959
FORMATION:	BARTLESVILLE	(PERFS):	964 -	969
FORMATION:	BARTLESVILLE	(PERFS):	972 -	974
FORMATION:	BARTLESVILLE	(PERFS):	980 -	984
FORMATION:		(PERFS):	-	
FORMATION:		(PERFS):	-	
FORMATION:		(PERFS):	-	

2 ESTIMATED AMOUNT OF FLUID PRODUCTION TO BE COMMINGLED FROM EACH INTERVAL

FORMATION:	TEBO	BOPD:	0	MCFPD:	3.5	0 BWPD:	5.25
FORMATION:	WEIR	BOPD:	0	MCFPD:	3.5	BWPD:	5.25
FORMATION:	RIVERTON	BOPD:	0	MCFPD:	3.5	BWPD:	5.25
FORMATION:	SQUIRREL	BOPD:	0.5	MCFPD:	0	BWPD:	3.33
FORMATION:	BARTLESVILLE	BOPD:	0.5	MCFPD:	0	BWPD:	3.33
FORMATION:	BARTLESVILLE	BOPD:	0.5	MCFPD:	0	BWPD:	3.33
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FORMATION:	C	BOPD:		MCFPD:		BWPD:	

affidavit of Notice Served	<u> </u>
e: Application for: APPLICATION FOR COMM	IINGLING OF PRODUCTION OR FLUIDS ACO-4
Well Name: MYERS, WAYNE D 34-1	Legal Location: NWSENENE S34-T27S-R17E
he undersigned hereby certificates that he / she is a duly authoriz	ized agent for the applicant, and that on the day 26TH of NOVEMBER
2012 , a true and correct copy of the application re	eferenced above was delivered or mailed to the following parties:
ote: A copy of this affidavit must be served as a part of the applic	r u
ote: A copy of this affidavit must be served as a part of the аррік Name	Address (Attach additional sheets if necessary)
SEE ATTACHED	Address (Aและก สนินแบกสารกิษยิราก กิบบิธิรอลาชา
SEE ATTACHED	
	THE MU COM COUNTY CITIZEN
rther attest that notice of the filing of this application was publish	
WILSON	county. A copy of the affidavit of this publication is attached.
ned this 26TH day of NOVEMBER	. 2012
	Less Maris
	Applicant or Duly Authorized Agent
Subscribed and	sworn to before me this day of ,
JENNIFER R. BEAL OFFICIAL MY COMMISSION EXPIRES	Denniter K. Beal
SEAL MY COMMISSION EXPIRES 7-20-20/0	Notary Pyblic
	My Commission Expires: 944 20, 20/4
	<i>y y</i>

LEGAL LOCATION SPOT

CURR_OPERA

S26-T27S-R17E

NE SW SE SE N & B Enterprises, Inc.

PO Box 812

Chanute, KS 64720

WILSON

27-27S-17E

N2 SE4

Michael Dwight Olson Trust

18676 2000 Rd Buffalo, KS 66717

34-27S-17E

Tract in NE4 NW4 Travis Stoldt

Travis Stoldt 24463 2000 Rd Chanute, KS 66720

NEOSHO

26-27S-17E

SW4 less

Ash Grove Cement Co.

PO Box 25900

Overland Park, KS 66225

SW4 SW4

Bruce & Jennifer Lee

1060 200th Rd Chanute, KS 66720

35-27S-17E

tract in NW4

Chad & Jeana Anderes

1035 200th Rd Chanute, KS 66720

MYERS, WAYNE D 34-1-APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

set Operators, Unleased Mineral Owners and Landowners acreage	
ach additional sheets if necessary)	
Name:	Legal Description of Leasehold:
E ATTACHED	
	•
by certify that the statements made herein are true and correct to the best of	f my knowledge and belief.
1	(Jed Morres
Applic	cant or Duly Authorized Agent
	NOVEMBER 2012
Subscribed and sworn before	re me this 26TH day of NOVEMBER ,2012
- Aller	α α α α α
JENNIFER R. BEAL	Annifer R. Beal
JENNIFER R. BEAL	Annifer R. Beal
JENNIFER R. BEAL OFFICIAL MY COMMISSION EXPIRES Notary	Aunifer R. Beal
JENNIFER R. BEAL OFFICIAL MY COMMISSION EXPIRES Notary	Annifer R. Beal
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JENNIFER R. BEAL OFFICIAL MY COMMISSION EXPIRES Notary	ommission Expires: July 20, 2016
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35-27S-17E

tract in NW4

Chad & Jeana Anderes

1035 200th Rd Chanute, KS 66720 Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

December 12, 2012

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

RE: Approved Commingling CO121201

Myers, Waynd D. 34-1, Sec. 34-T27S-R17E, Wilson County

API No. 15-205-26807-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on December 10, 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 CO121201 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