

### Kansas Corporation Commission Oil & Gas Conservation Division

1093857

Form ACO-4 Form must be typed March 2009

## APPLICATION FOR COMMINGLING OF Commingling ID # CO101222 PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License # 33343	API No. 1515-133-26897-00-00
Name: PostRock Midcontinent Production LLC	
Address 1: Oklahoma Tower	NE_SE_SW_NE Sec. 22 Twp. 28 S. R. 18 Feast West
Address 2: 210 Park Ave, Ste 2750	2075 Feet from North / South Line of Section
City: OKLAHOMA CITY State: OK Zip: 73102 +	
Contact Person: CLARK EDWARDS	County: Neosho
Phone: (620 ) 432-4200	Lease Name: TAYLOR, WAYNE L. Well #: 22-3
(	
1. Name and upper and lower limit of each production interva	ıl to be commingled:
Formation: SUMMIT	(Perfs): 616-620
Formation: MULKY	(Perfs): 629-633
Formation: CROWEBURG	(Perfs): 734-737
Formation: FLEMING	(Perfs): 774-776
Formation: FLEMING	(Perfs): 791-793
2. Estimated amount of fluid production to be commingled fro	m each interval:
Formation: SUMMIT	BOPD: 0 MCFPD: 1.8 BWPD: 1
Formation: MULKY	BOPD: 0 MCFPD: 1.8 BWPD: 1
Formation: CROWEBURG	BOPD: 0 MCFPD: 1.8 BWPD: 1
Formation: FLEMING	BOPD: 0 MCFPD: 1.8 BWPD: 1
Formation: FLEMING	BOPD: 0 MCFPD: 1.8 BWPD: 1
<ul> <li>In the subject well, all other the subject well, and for each well the names and addressed and addressed.</li> <li>In the subject well, and for each well the names and addressed and addressed.</li> <li>In the subject well, all other the subject well, all other the subject well, and for each well the names and addressed.</li> <li>In the subject well, all other the subject well, and for each well the names and addressed.</li> <li>In the subject well, all other the subject well, and for each well the names and addressed.</li> <li>In the subject well th</li></ul>	
For Commingling 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 subj	ject well.
For Commingling of FLUIDS ONLY, include the following:	
7. Well construction diagram of subject well.	
<ul> <li>8. Any available water chemistry data demonstrating the com</li> </ul>	patibility of the fluids to be commingled.
<b>AFFIDAVIT:</b> I am the affiant and hereby certify that to the best of current information, knowledge and personal belief, this request for comingling is true and proper and I have no information or knowledge, whis inconsistent with the information supplied in this application.	Submitted Electronically
KCC Office Use Only	Protests may be filed by any party having a valid interest in the application. Protests must be
☐ Denied	in writing and comply with K.A.R. 82-3-135b and must be filed wihin 15 days of publication of the notice of application.
15-Day Periods Ends: 11/9/2012	
Approved By: Rick Hestermann Date: 11/09/20	012

	A	В	С	D	E	F	G	Н		J	K
1	Produced Fluids #		1	2	3	4	5				
2	Parameters	Units	Input	Input	Input	Input	Input	7 3 5 kg (1 1 1	Click he	re	Click
3	Select the brines	Select fluid	7 198	ESSENT PRINT		7 1000	1000	Mixed brine:	to run S		
4	Sample ID	by checking						Cell H28 is	10 1411 01		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
	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
9	Field		СВМ	СВМ	Bartles	Bartles	Bartles	calculations.			
10	Na <sup>+</sup>	(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 <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index	values	(Final-Initial)
	Mg <sup>2+</sup>	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91		lcite	TWI-THE
$\overline{}$	Ca <sup>2+</sup>		1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040.23	-0.73	-0.60	0.13
	Sr <sup>2+</sup>	(mg/l)	1,030.00	2,432.00	2,044.00	1920.00	1940.00			A	0.13
	Ba <sup>2+</sup>	(mg/l)						0.00	Ва	rite	
		(mg/l)						0.00			
	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Ha	alite	41.30
17	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb <sup>2+</sup>	(mg/l)						0.00	Gyj	psum	5 (21) 5 (1)
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
-	SO <sub>4</sub> <sup>2</sup> ·	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40		hydrate	ET LIBET
21	F*	(mg/l)	1.00	1.00	0.00	2,50	1.50	0.00	-3.96	-3.90	0.06
-	Br <sup>·</sup>										0.00
		(mg/l)						0.00	The second second second	ydrite	0.10
-	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	Cel	estite	
-	CO3 Alkalinity	(mg/l as CO3)								DALL SEAL TO A	
26	Carboxylic acids**	(mg/l)						0.00		Sulfide	11 124
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H3BO3						0.00	Zinc	Sulfide	
29	TDS (Measured)	(mg/l)						72781			DOM:
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium	n fluoride	ALIGNAL.
31	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16	r to ancies	586 ENVENTED	
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Ca	arbonate	Chira a
33	Total H2Saq	(mgH2S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23
34	pH, measured (STP)	pН	5.67	5.76	5.72	5.54	5.55	5,63	Inhibitor no	eeded (mg/L)	
$\neg$		0-CO2%+Alk,							Calcite	NTMP	
	Choose one option to calculate SI?									1 3 5 5 5 5	
			1 0								
35			0	0	0	0	0			11/10/16	
36	Gas/day(thousand cf/day)	(Mcf/D)		0	- 0	0	0	0	0.00	0.00	
36 37	Gas/day(thousand cf/day) Oil/Day	(Mcf/D) (B/D)	0	0	1	1	1	4	Barite	ВНРМР	
36 37 38	Gas/day(thousand cf/day) Oil/Day Water/Day	(Mcf/D) (B/D) (B/D)	0 100	0 100 ures in Cells (H	1 100 40-H43)	1 100	1 100	4 500	Barite 0.00	BHPMP 0.00	
36 37 38 39	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va	(Mcf/D) (B/D) (B/D) ues for tempera	0 100 tures and pressu	ures in Cells (H	40-H43)	Mark Subject		4 500 (Enter H40-H43)	Barite 0.00	BHPMP 0.00 H	
36 37 38 39 40	Gas/day(thousand cf/day) Oil/Day Water/Day	(Mcf/D) (B/D) (B/D)	0 100			1 100 41.0 41.0	1 100 49.0 49.0	4 500	Barite 0.00 F 5.69	BHPMP 0.00	
36 37 38 39 40 41	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va Initial T	(Mcf/D) (B/D) (B/D) (B/D) (ues for temperal	0 100 tures and pressu	ures in Cells (H 71.0	40-H43) 70.0	41.0	49.0	4 500 (Enter H40-H43) 60.0	Barite 0.00 F 5.69	BHPMP 0.00 9H 5.60	
36 37 38 39 40 41 42	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va Initial T Final T Initial P	(Mcf/D) (B/D) (B/D) (ues for temperators) (F) (F) (psia)	0 100 tures and press 66.0 66.0	71.0 71.0 71.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0	Barite 0.00 p 5.69 Viscosity ( 1.196	BHPMP 0.00 0H 5.60 CentiPoise) 0.826	
36 37 38 39 40 41 42 43	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va Initial T Final T	(Mcf/D) (B/D) (B/D) (ues for temperat (F) (F)	0 100 tures and pressu 66.0 66.0	res in Cells (H 71.0 71.0	70.0 70.0	41.0 41.0	49.0 49.0	4 500 (Enter H40-H43) 60.0 89.0	Barite 0.00 p 5.69 Viscosity ( 1.196	BHPMP 0.00 bH 5.60 CentiPoise)	
36 37 38 39 40 41 42 43	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial P Final P	(Mcf/D) (B/D) (B/D) (B/D) (ues for temperal (F) (F) (psia) (psia)	0 100 tures and press 66.0 66.0	71.0 71.0 71.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0	Barite 0.00 p 5.69 Viscosity ( 1.196 Heat Capaci 0.955	BHPMP 0.00 0H 5.60 CentiPoise) 0.826 ity (cal/ml/°C)	
36 37 38 39 40 41 42 43 44 45	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav.	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav.	0 100 tures and press 66.0 66.0	71.0 71.0 71.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0	Barite 0.00 p 5.69 Viscosity ( 1.196 Heat Capaci 0.955	BHPMP 0.00 0H 5.60 CentiPoise) 0.826 tty (cal/ml/°C) 0.959	
36 37 38 39 40 41 42 43 44 45 46 47	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day	(Mcf/D) (B/D) (B/D) (ues for temperal (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00	BHPMP 0.00  H 5.60 CentiPoise) 0.826 tity (cal/ml/°C) 0.959 eeded (mg/L) HDTMP 0.00	
36 37 38 39 40 41 42 43 44 45 46 47	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav.	0 100 tures and press 66.0 66.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier	(Mcf/D) (B/D) (B/D) (BS/D) (UES FOR TEMPERATE OF THE PROPERATE OF THE PROP	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00	BHPMP 0.00  H 5.60 CentiPoise) 0.826 tity (cal/ml/°C) 0.959 eeded (mg/L) HDTMP 0.00	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va Initial T Initial 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) †	(Mcf/D) (B/D) (B/D) (BS/D) (UES FOR TEMPERATE OF THE PROPERATE OF THE PROP	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va 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) †	(Mcf/D) (B/D) (B/D) (B/D) (BS for temperal (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52	Gas/day(thousand cf/day) Oil/Day Water/Day Water/Day For mixed brines, enter val Initial T Initial P Final T Initial 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	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP:	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas	(Mcf/D) (B/D) (B/D) (BB/D) (ues for temperal (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP:	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial 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 <sub>2</sub> S Gas Total H2Saq (STP)	(Mcf/D) (B/D) (B/D) (BS/D) (USE FOR TEMPETAL (F) (F) (PSIA) (PSIA) (PSIA) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va 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 <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated	(Mcf/D) (B/D) (B/D) (B/D) (BB/D) (BB of temperal (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (N) STP: (%) (mgH2S/I) (pH)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial 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 <sub>2</sub> S Gas Total H2Saq (STP)	(Mcf/D) (B/D) (B/D) (BS/D) (USE FOR TEMPETAL (F) (F) (PSIA) (PSIA) (PSIA) 1-Yes;0-No API grav. Sp.Grav. (B/D) (B/D) (N) (N) STP: (%) (mgH2S/I)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Gas/day(thousand cf/day) Oil/Day Water/Day Water/Day For mixed brines, enter val Initial T Initial 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 <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ΣCations=	(Mcf/D) (B/D) (B/D) (BB/D) (BB/D) (BB/D) (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) STP: (%) (mgH2S/l) (pH) (%) (mg/J) as HCO3 (equiv./l)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	Gas/day(thousand cf/day) Oil/Day Water/Day Water/Day For mixed brines, enter va 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 base) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= ECations=	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (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)	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 71.0 25.0 25.0	70.0 70.0 70.0 25.0	41.0 41.0 25.0	49.0 49.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 57 58 59 60	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Final T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H⁺ (Strong acid) † OH (Strong base) † Quality Control Checks at H₂S Gas Total H2Saq (STP) PH Calculated Alkalinity Caclulated Alkalinity Caclulated ΣCations= ΣAnions= Calc TDS=	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (N) (STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (equiv./I) (mg/I)	0 100 tures and press 66.0 25.0 25.0	res in Cells (H 71.0 71.0 25.0 25.0	70.0 70.0 25.0 25.0	41.0 41.0 25.0 25.0	49.0 49.0 25.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 57 58 59 60 61	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated \$\text{ECQLUATEQUESTATE}\$ \text{Calc TDS}\$ \text{Lands}\$ \text{Lands}	(Mcf/D) (B/D) (B/D) (BB/D) (BB/D) (BB/D) (BF) (PF) (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	0 100 tures and press 66.0 66.0 25.0 25.0	res in Cells (H 71.0 71.0 25.0 25.0	40-H43) 70.0 70.0 25.0 25.0	41.0 41.0 25.0 25.0	49.0 49.0 25.0 25.0	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 0.60 0 0	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor ns Gypsum 0.00 Anhydrite 0.00	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial 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 <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Cactulated ECations= \$\times\$ \text{Anions}= Calc TDS= Inhibitor Selection Protection Time	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (N) (STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (equiv./I) (mg/I)	0 100 tures and press 66.0 25.0 25.0	# 1	40-H43) 70.0 70.0 25.0 25.0 Inhibitor NTMP	41.0 41.0 25.0 25.0 Unit Converter	49.0 49.0 25.0 25.0 (From metric	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 to English) To Unit	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor na Gypsum 0.00 Anhydrite 0.00	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial 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 <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated \$\text{E}\text{Cations} = \text{E}\text{Anions} = \text{Calc} \text{TDS} = \text{Inhibitor Selection} Protection Time Have ScaleSoftPitzer	(Mcf/D) (B/D) (B/D) (BB/D) (BB/D) (BB/D) (F) (F) (psia) (psia) (-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	0 100 tures and press 66.0 25.0 25.0 0 0	# 1 2	40-H43) 70.0 70.0 25.0 25.0 25.0 Inhibitor NTMP BHPMP	41.0 41.0 25.0 25.0  Unit Converter From Unit	49.0 49.0 25.0 25.0 25.0 Value 80	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 to English) To Unit	Barite 0.00  p 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor m Gypsum 0.00 Anhydrite 0.00	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 64	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va 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 <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you?	(Mcf/D) (B/D) (B/D) (B/D) (ues for temperal (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (STP: (%) (mg/H2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (mg/I) Input 120	0 100 tures and press 66.0 66.0 25.0 25.0 0 0	# 1 2 3	40-H43) 70.0 70.0 25.0 25.0 25.0 Inhibitor NTMP BHPMP PAA	Unit Converter From Unit  C  C  T  T  T  T  T  T  T  T  T  T  T	49.0 49.0 25.0 25.0 25.0 25.0 40 40 40 40 40 40 40 40 40 40 40 40 40	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 to English) To Unit °F ft³	Barite 0.00  F 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00  Value 176 3,531	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	Gas/day(thousand cf/day) Oil/Day Water/Day Water/Day For mixed brines, enter va 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 <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated ECations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is:	(Mcf/D) (B/D) (B/D) (BB/D) (BB/D) (BB/D) (F) (F) (psia) (psia) (-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	0 100 tures and press 66.0 25.0 25.0 0 0	# 1 2 3 4	40-H43) 70.0 70.0 25.0 25.0 25.0 Inhibitor NTMP BHPMP PAA DTPMP	Unit Converter From Unit  C  T  T  T  T  T  T  T  T  T  T  T  T	49.0 49.0 25.0 25.0 25.0 100 100	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 To Unit "F ft3 bbl(42 US gal)	Barite 0.00  F 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor no Gypsum 0.00 Anhydrite 0.00  Value 176 3,531 629	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 57 58 59 60 61 62 63 64 65 66 66 66 66 66 66 66 66 66	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Final T Initial T Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) PH Calculated Alkalinity Caclulated 2Cations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed,	(Mcf/D) (B/D) (B/D) (B/D) (uses for temperat (F) (F) (psia) (psia) 1-Yes;0-No API grav. Sp.Grav. (B/D) (N) (N) (N) (STP: (%) (mgH2S/I) (pH) (%) (mg/I) as HCO3 (equiv./I) (equiv./I) (mg/I) Input 120  1 4	0 100 tures and press 66.0 66.0 25.0 25.0 0 0 0 Unit min 1-Yes;0-No #	# # 1 2 3 3 4 5 5	40-H43) 70.0 70.0 25.0 25.0 25.0 Inhibitor NTMP BHPMP PAA DTPMP PPCA	Unit Converter From Unit  C  m  MPa	49.0 49.0 25.0 25.0 25.0 100 100 1,000	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 To Unit °F ft³ bbl(42 US gal) psia	Barite 0.00  F 5.69 Viscosity ( 1.196 Heat Capaci 0.955 Inhibitor ne Gypsum 0.00 Anhydrite 0.00  Value 176 3,531 629 145,074	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 66 61 62 63 64 65 66 66 67	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated 2Cations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed, 1st inhibitor # is:	(Mcf/D) (B/D) (B/D) (B/D) (B/D) (B/D) (Wes for temperation of temp	0 100 tures and press 66.0 66.0 25.0 25.0 0 0 0 1-Yes;0-No #	## 1 2 3 3 4 4 5 5 6	40-H43) 70.0 70.0 25.0 25.0 25.0 Inhibitor NTMP BHPMP PAA DTPMP PPCA SPA	Unit Converter From Unit  C  C  m  MPa  Bar	49.0 49.0 25.0 25.0 25.0 100 100 1,000 496	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0,60 0 0 To Unit °F ft³ bbl(42 US gal) psia psia	Barite 0.00  F 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	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 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 68	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter val Initial T Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated PCO2 Calculated Alkalinity Caclulated 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:	(Mcf/D) (B/D) (B/D) (B/D) (BS/D) (BS for temperal (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	0 100 tures and press 66.0 66.0 25.0 25.0 0 0 0 1 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  MPa  Bar  Torr	49.0 49.0 25.0 25.0 25.0 25.0 100 100 100 1,000 496 10,000	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0.60 0 0 To Unit Fft3 bbl(42 US gal) psia psia	Barite 0.00  p 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	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (cal/ml/°C) 0.959 ceded (mg/L) HDTMP 0.00 HDTMP	
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 60 61 62 63 64 65 66 67 68 69	Gas/day(thousand cf/day) Oil/Day Water/Day For mixed brines, enter va Initial T Initial T Initial P Final P Use TP on Calcite sheet? API Oil Grav. Gas Sp.Grav. MeOH/Day MEG/Day Conc. Multiplier H* (Strong acid) † OH* (Strong base) † Quality Control Checks at H <sub>2</sub> S Gas Total H2Saq (STP) pH Calculated Alkalinity Caclulated 2Cations= EAnions= Calc TDS= Inhibitor Selection Protection Time Have ScaleSoftPitzer pick inhibitor for you? If No, inhibitor # is: If you select Mixed, 1st inhibitor # is:	(Mcf/D) (B/D) (B/D) (B/D) (B/D) (B/D) (Wes for temperation of temp	0 100 tures and press 66.0 66.0 25.0 25.0 0 0 0 1-Yes;0-No #	## 1 2 3 3 4 4 5 5 6	40-H43) 70.0 70.0 25.0 25.0 25.0 Inhibitor NTMP BHPMP PAA DTPMP PPCA SPA	Unit Converter From Unit  C  C  m  MPa  Bar	49.0 49.0 25.0 25.0 25.0 100 100 1,000 496	4 500 (Enter H40-H43) 60.0 89.0 25.0 120.0 30.00 0,60 0 0 To Unit °F ft³ bbl(42 US gal) psia psia	Barite 0.00  F 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	BHPMP 0.00  H 5.60 CentiPoise) 0.826 ity (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

	f.					
419	20%	20%	20%	20%	20	
Component (mg/L)	Brine 1	Brine 2	Brine 3	Brine 4	Brine 5	Mixed Brine
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO <sub>2</sub> in Brine	246	220	264	422	405	401
Ionic Strength	1.12	1.48	1.46	1.38	1.31	1.31
Temperature (°F)	89	89	89	89	89	89
Pressure (psia)	50	50	120	120	120	119

#### **Saturation Index**

Calcite	-1.71	-1.41	-1.48	-1.68	-1.69	-1.69
Gypsum	-3.71	-3.64	-2.82	-3.73	-3.72	-3.69
Hemihydrate	-3.70	-3.65	-2.83	-3.74	-3.71	-3.69
Anhydrite	-3.89	-3.79	-2.97	-3.89	-3.88	-3.85
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

#### PTB

1 10						
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

## CONFIDENTIAL

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

September 1999
Form Must Be Typed
SE

#### WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

	· / / L
Operator: License # 33344	API No. 15 - 133-26897-0000
Name: Quest Cherokee, LLC	County: Neosho
Address: 211 W. 14th Street	ne -se -sw - ne Sec. 22 Twp. 28 S. R. 18
City/State/Zip: Chanute, KS 66720	2075 feet from S / (circle one) Line of Section
Purchaser: Bluestem Pipeline, LLC	1620 feet from (E) W (circle one) Line of Section
Operator Contact Person. Jennifer R. Ammann	Footages Calculated from Nearest Outside Section Corner:
Phone: (620) 431-9500 Contractor: Name: TXD	(circle one) NE SE NW SW
Contractor: Name: TXD	Lease Name: Taylor, Wayne L. Well #: 22-3
License: 33837	Field Name: Cherokee Basin CBM
Wellsite Geologist: Ken Recoy	Producing Formation: multiple
Designate Type of Completion:	Elevation: Ground: 986 Kelly Bushing: n/a
Vew Well Re-Entry Workover	Total Depth: 1145 Plug Back Total Depth: 1130.15
Oi SWDSIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 20 Feet
✓ GasENHR SIGW	Multiple Stage Cementing Collar Used?   ☐Yes ☐No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
	If Alternate II completion, cement c roulated from 1130.15
If Workover/Re-entry: Old Well Info as follows:  Operator:	feet depth to_surface
Well Name:	
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan 41 11 11 2 2009 (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	
Plug Back Plug Back Total Depth	Chloride content ppm Fluid volume bbls
Commingled Docket No	Dewatering method used
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
	Operator Name:
Other (SWD or Enhr.?) Docket No	Lease Name: License No.:
4/19/07         4/23/07         4/23/07           Spud Date or         Date Reached TD         Completion Date or	Quarter Sec Twp S. R
Spud Date or Date Reached TD Completion Date or 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 13	and geologist well report shall be attached with this form. ALL CEMENTING
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: Quantities by America	KCC Office Use ONLY
Signature: Annual Boundary Coordinator 9/15/07	
Title: New Well Development Coordinator Date: 8/15/07	Letter of Confidentiality Received
Subscribed and sworn to before me this 15 day of Ougust	If Denied, Yes Date:
20 07	Wireline Log Received RECEIVED
	Geologist Report Received (ANSAS CORPORATION COMM
Notary Public: Sievra Klauman	UIC Distribution
Date Commission Expires: 8-4-2010	RA KLAUMAN AUG 1 7 2007
Notary P	Conservation Division B- U1- 80 ID

#### Side Two

Operator Name:	est Cherokee, LL	<u> </u>		Lease I	Name:_	aylor, wayne	L.	Well #:	
Sec. 22 Twp. 28	S. R. 18	<b> €</b> East	West	County:	Neosh	0			100
INSTRUCTIONS: Shested, time tool oper temperature, fluid rec Electric Wireline Logs	and closed, flowing overy, and flow rate	g and shut-in s if gas to su	pressures, urface test, a	whether sho along with fir	ut-in pre	essure reached	static level, hydr	rostatic pressure	es, bottom hole
Drill Stem Tests Take		Yes	<b>√</b> No		<b>√</b> L	og Forma	tion (Top), Depth	and Datum	Sample
Samples Sent to Geo	ological Survey	Yes	✓ No		Nam	e attached		Тор	Datum
Cores Taken	,	Yes	√ No	-1	See	e attached			
Electric Log Run Yes No		1 1		•					
List All E. Logs Run:									
Compensated Dual Induction I	Log	n Log	y-10-1-17						
		Papart 6		RECORD		ew Used	etion etc		
Purpose of String	Size Hole		Casing	Weig		Setting	Type of	# Sacks	Type and Percent
Surface	12-1/4		n O.D.)	Lbs./		Depth 20	Cement	Used 5	Additives
Production	6-3/4	4-1/2	10,20	10.5		1130.15	"A"	136	
							1		
			ADDITIONAL	CEMENTIN	G / SQI	JEEZE RECOR	ID.		
Purpose:  Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	T	Cement	#Sacks (				Percent Additives	
Shots Per Foot		ON RECORD Footage of Ea					acture, Shot, Ceme Amount and Kind of N		d Depth
4	1041-1045/989-99	1/984-985				300gal 15%HCLw/ 24	obis 2%kci water, 507bbis water	r w/ 2% KCL, Biodde, 9900	# 20/40 sand 1041-1045/989-
									984-985
4	881-883/801-803/7	91-793/774-	-776/734-73	37		300gat 15%HCLw/ 34 I	obls 2%kci water, 516bbls wate	r w/ 2% KCL, Biodde, 10700	
4	629-633/616-620					300net 15%HCl w/ 38 I	obis 2%kci water, 516bbls wate	r w/ 2% KCI Biordea 103000	791-793 774-776/734-7 # 2040 sand   629-633/616-6
TUBING RECORD	Size	Set At		Packer At		Liner Run	AND 2 AND WARD, STOURS WARD	W Z W POOL, DINZUR, TOSKI	0.25-0.33/010-0
2-3	3/8*	1083		n/a			☐ Yes ✓ N	0	
Date of First, Resumero 6/7/07	d Production, SWD or E	enhr. F	Producing Met	thod	Flowin	g 🕢 Pumj	oing Gas L	ift Othe	er (Explain)
Estimated Production Per 24 Hours	Oil n/a	Bbls.	Gas 16.9mcf	Mcf	Wate 75bbl		Bbis.	Gas-Oil Ratio	Gravity
Disposition of Gas	METHOD OF C	COMPLETION				Production Inte	erval		- 1
Vented ✓ Sold (If vented, Sul	Used on Lease		Open Hole Other (Spec	Perf.		Dually Comp.	Commingled		

#### TXD SERVICES LP DRILLERS LOG

33

#### TXD SERVICES LP

RIG#	101	1	S. 22	T. 28	F	t. 18	2 2 2		YES ALL
API#	133-2689	7	County:	Neosh	0		312'	5 - 1/2"	14.1
1.01	Elev:	986'	Location	Kansas	3		529'	E - 1/2"	14.1
		P. M		-			560'	E - 1/2"	14.1
Operator:	Quest Che	erokee, LLC					622'	5 - 3/4"	31.6
Address: 9520 N. May Ave, Suite 300							653'	8 - 3/4"	40
Oklahoma City, OK 73120							746'	8 - 3/4"	40
Well#	22-3		Lease Name	Taylor,	Way	ne	808'	8 - 3/4"	40
Footage Locat	ion	2025	ft from the	N	l	ine	839'	8 - 3/4"	40
		1620	ft from the	E	L	ine	901'	8 - 3/4"	40
Drilling Contractor: TXD SERVICES LP							932'	B - 3/4"	40
Spud Date;	NA		Geologist:				994'	8 - 3/4"	40
Date Comp:	4/21/200	7	Total Depth:	1149	11		1056'	3 - 3/4"	40
Exact spot Loc	cation;	NE SE SW	NE				1087'	3 - 3/4"	40
				4	4	وســــ	1149'	3 - 3/4"	40
A PART OF THE		Production				A CONTRACTOR OF THE PARTY			
Size Hole	12-1/4"	6-3/4"							
Size Casing	8-5/8"	4-1/2"						KCC	0
Weight	24#							1400	
Setting Depth	21'							116 1 5 21	107
Type Cement	portland				1				CONTRACTOR OF THE PERSON NAMED IN
Sacks								CONFIDER	JUNE

Formation	Тор	Btm.	Formation	Тор	Btm.	Formation	Тор	Btm.
top soil	0	1	sand	470	484	lime	738	740
clay, shale	1	21	shale	484	510	shale	740	742
ime	21	165	lime	510	515	coal	742	743
shale	165	170	coal	515	516	shale	743	798
sand	170	209	shale	516	523	coal	798	800
shale	209	215	lime	523	556	shale	800	806
sand	215	220	shale	556	557	coal	806	807
lime	220	240	b.shale	557	558	shale	807	813
shale	240	247	shale	558	595	sand	813	827
lime	247	322	coal	595	596	shale	827	833
shale	322	345	shale	596	598	coal	833	834
lime	345	348	lime	598	619	shale	834	837
shale	348	384	shale	619	622	sand	837	853
lime	384	405	b.shale	622	624	shale	853	873
shale	405	417	shale	624	628	sand	873	880
lime	417	428	lime	628	631	shale	880	883
shale	428	434	shale	631	633	coal	883	885
lime	434	436	coal	633	634	shale	885	908
shale	436	442	shale	634		coal	908	909
sand	442	446	sand	643		shale	909	951
shale	446	466	shale	649	The second secon	coal -	951	952
coal	466	467	coal	715		shale	952	
shale	467		shale	716		sand	THE RESERVE TO BE ADDRESS OF THE PARTY OF TH	EIVED984
	281' added	water, 813	-827' odor, 87	3-880' odol			KANEAS CORPO	RATION COMMI

AUG 1 7 2007

ATTE	Too				Transfer of the state of the st	Formation		
mation	Тор	Btm.	Formation	Тор	Btm.	Formation	Тор	Btm.
hale '	984	986						
coal	986	987						
shale	987	990						
coal	990	991						
shale	991	1004						
coal	1004							
shale	1005							2 2
coal	1041							
shale	1043	1056						
lime	1056	1149						
			-					
	1							
		<del>                                     </del>					<del></del>	
:				1			_	
							-	
		-	-				+	
	PAR .							

KCC AUG 1 5 2007 CONFIDENTIAL

RECEIVED KANSAS CORPORATION COMMISSION

AUG 1 7 2007

CONSERVATION DIVISION WICH!TA, KS



DATE

4.23-07

Ravin 4513

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

Taylor WayNe

FIELD TICKET REF

RANGE

18

COUNTY

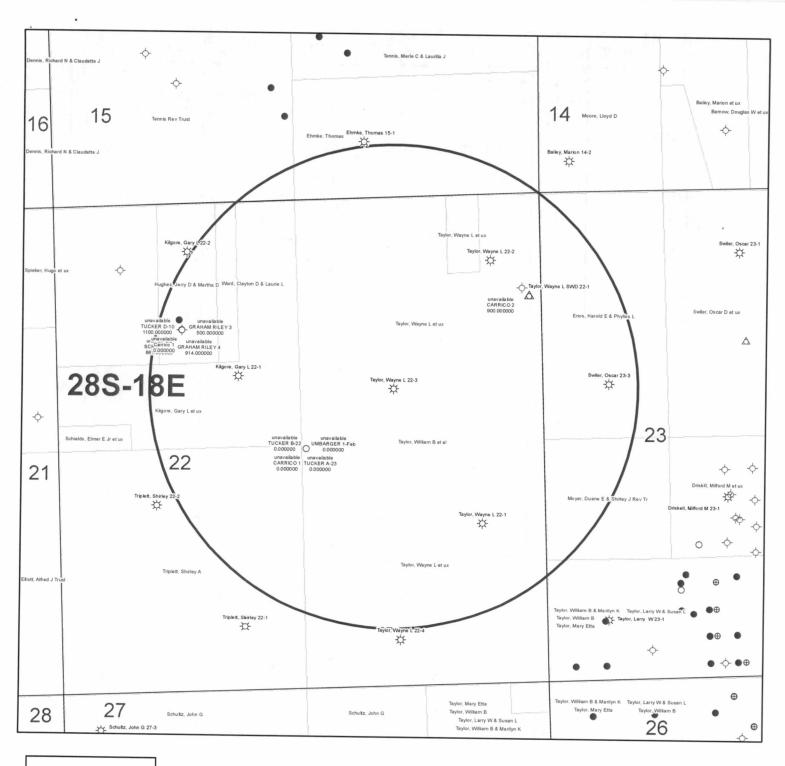
SECTION | TOWNSHIP

621030

#### TREATMENT REPORT & FIELD TICKET CEMENT

WELL NAME & NUMBER

				Contract .						
- FOREMAN / OPERATOR	TIME	TIME	LESS	TRUCK #	TRAILER	HOURS	EMPLOYEE SIGNATURE			
Joe. B	12:00	5:15		903427		5.25	Joe Planchard			
MAULVICK . S		5:00		903197		5	Man Al			
Tyler 6	1	5:00		903+42	932452	5	Tree Goods			
Gary . C	2:00	5:30	٥	931500	-	. 5.85	At Cooper			
Carry	•			1310-0		3 35	11- (0000)			
JOB TYPE Long String HOLE SIZE 63/4 HOLE DEPTH 1/45 CASING SIZE & WEIGHT 4  CASING DEPTH 1/30.15 DRILL PIPE TUBING OTHER  SLURRY WEIGHT 14.5 SLURRY VOL WATER gal/sk CEMENT LEFT in CASING										
							0			
DISPLACEMENT /	3.00 DISPLA	CEMENT F	PSI N	MIX PSI	RATE	4600				
REMARKS:										
	ementhead	RAN	1 5K 501 4	12 bbl due	4 /36 sks	of comount 7	a sed due to			
Surface. f	Tush amp. I	UMBW	iner plus	12 bbl dye	- Set flood	Shoe	7-1-1-			
	(-)	1	1							
		-				000	200			
						KC				
						AUG 15	2007			
						CONFIDE				
	1130	. 15	f+41/2 C	Killo		CONTRACTOR OF THE PARTY OF THE	P0 8 88 86			
		6	Cantralic.	- 8 <						
		1	41/2 float							
ACCOUNT CODE	QUANTITY or U	INITS			RVICES OR PRODUC	T	TOTAL			
		74113		DESCRIPTION OF SE	ENVICES ON PRODUC	1	AMOUNT			
903427	5.25	hr	Foreman Pickup							
503197	5	hr	Cement Pump Truck	k						
1104	2	hr	Bulk Truck Portland Cement							
1124	/30	SK a	50/50 POZ Blond O	ement RAHLA	31/2 # 3					
1126	•	î	OWC - Blend Ceme							
1110		3 516	Gilsonîte	1/2	(1108)					
1107		.55K	Flo-Seat			DECE				
1118	. /	SIC	Premium Gel			RECENTANSAS CORPORATION	ON COMMISSION			
1215A	1 60	. 1	KCL							
1111B		3 5K	Sodium Silioate	colchlaride		AUG 17	2007			
1123	700	0001	City Water							
903142	2	3/1	Transport Truck			CONSERVATION WICHITE	RS DIVISION			
932452	2	hr	Transport Trailer							
931500	5.0	75 hr	80 Vac							



#### **KGS STATUS**

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

Taylor, Wayne L 22-3 22-28S-18E 1" = 1,000'

#### **POSTROCK**



#### **Current Completion**

SPUD DATE: 4/19/2007

COMP. Date: 4/23/2007 API: 15-133-26897-00-00

WELL

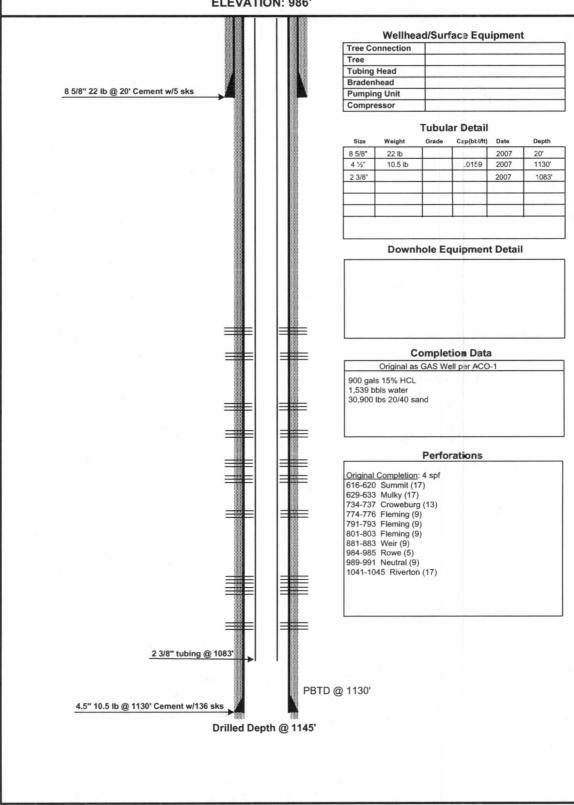
: Taylor, Wayne L 22-3

**FIELD** STATE : Cherokee Basin : Kansas

COUNTY

: Neosho

LOCATION: 22-28S-18E (SW, NE) **ELEVATION: 986'** 



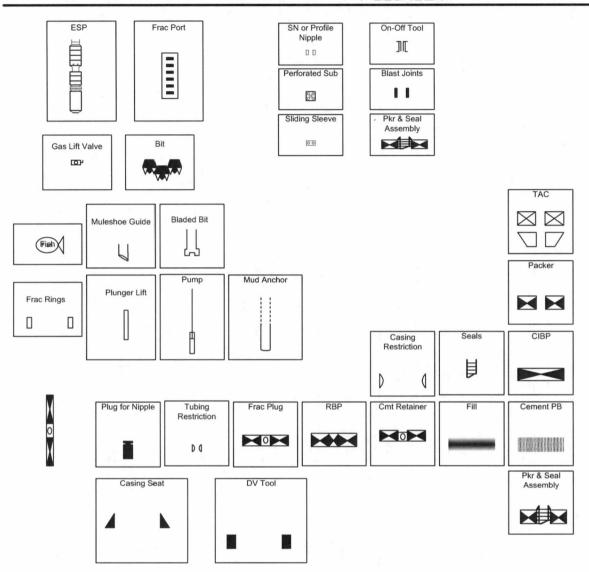
PREPARED BY:	POSTROCK	
APPROVED BY:		

#### **POSTROCK**



LEGEND

#### PostRock<sup>®</sup>



#### TAYLOR, WAYNE L 22-3

1 NAME & UPPE	R & LOWER LIMIT OF EACH PRODU	ICTION INTERVAL TO BE	COMMING	LED			
FORMATION:	FLEMING	(PERFS):	801 -	803			
FORMATION:	WEIR	(PERFS):	881 -	883			
FORMATION:	ROWE	(PERFS):	984 -	985			
FORMATION:	NEUTRAL	(PERFS):	989 -	991			
FORMATION:	RIVERTON	(PERFS):	1041 -	1045			
FORMATION:	CATTLEMAN	(PERFS):	817 -	822			
FORMATION:	CATTLEMAN	(PERFS):	734 -	836			
FORMATION:	CATTLEMAN	(PERFS):	842 -	845			
FORMATION:	CATTLEMAN	(PERFS):	870 -	874			
FORMATION:		(PERFS):		· <u> </u>			
FORMATION:		(PERFS):	-	·			
FORMATION:		(PERFS):	-				
2 ESTIMATED AN	MOUNT OF FLUID PRODUCTION TO	BE COMMINGLED FROM	M EACH INT	ERVAL			
2 ESTIMATED AN FORMATION:		BE COMMINGLED FROM BOPD:	M EACH INT	ERVAL MCFPD:	1.8	BWPD:	1
					1.8	BWPD:	1
FORMATION:	FLEMING	BOPD:	0	MCFPD:			1 1
FORMATION: FORMATION:	FLEMING WEIR	BOPD: BOPD:	0	MCFPD:	1.8	BWPD:	1 1 1 1
FORMATION: FORMATION:	FLEMING WEIR ROWE	BOPD: _ BOPD: _ BOPD: _	0 0 0	MCFPD: MCFPD:	1.8	BWPD:	1
FORMATION: FORMATION: FORMATION:	FLEMING WEIR ROWE NEUTRAL	BOPD: _ BOPD: _ BOPD: _ BOPD: _	0 0 0	MCFPD: MCFPD: MCFPD:	1.8 1.8 1.8	BWPD: BWPD: BWPD:	1 1 1
FORMATION: FORMATION: FORMATION: FORMATION:	FLEMING WEIR ROWE NEUTRAL RIVERTON	BOPD: BOPD: BOPD: BOPD: BOPD:	0 0 0 0	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	1.8 1.8 1.8 1.8	BWPD: BWPD: BWPD:	1 1 1 1
FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	FLEMING WEIR ROWE NEUTRAL RIVERTON CATTLEMAN	BOPD: BOPD: BOPD: BOPD: BOPD: BOPD:	0 0 0 0 0 0 0.75	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	1.8 1.8 1.8 1.8 0	BWPD: BWPD: BWPD: BWPD:	1 1 1 1 1 5
FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	FLEMING WEIR ROWE NEUTRAL RIVERTON CATTLEMAN CATTLEMAN	BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD:	0 0 0 0 0 0 0.75 0.75	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	1.8 1.8 1.8 1.8 0	BWPD: BWPD: BWPD: BWPD: BWPD:	1 1 1 1 5 5
FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	FLEMING WEIR ROWE NEUTRAL RIVERTON CATTLEMAN CATTLEMAN	BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD: BOPD:	0 0 0 0 0 0.75 0.75	MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD: MCFPD:	1.8 1.8 1.8 1.8 0 0	BWPD: BWPD: BWPD: BWPD: BWPD: BWPD:	1 1 1 1 5 5 5
FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION: FORMATION:	FLEMING WEIR ROWE NEUTRAL RIVERTON CATTLEMAN CATTLEMAN CATTLEMAN CATTLEMAN	BOPD:	0 0 0 0 0 0.75 0.75	MCFPD:	1.8 1.8 1.8 1.8 0 0	BWPD: BWPD: BWPD: BWPD: BWPD: BWPD: BWPD:	1 1 1 1 5 5 5

# 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 Taylor, Wayne L 22-3 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 Summit, Mulky, Croweburg, Fleming, Weir, Rowe, Neutral, Riverton and Cattleman producing formations at the Taylor, Wayne L 22-3, located in the NE SE SW NE, S22-T28S-R18E, Approximately 2075 FNL & 1620 FEL, Neosho County, Kansas.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of 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 consecutive temo, the first publication thereof being made as aforesaid on the day of colored the color co
, 2012, 2012
, 2012, 2012
0 1 1/
Phonda Howerte
Subscribed and sworn to and before me this
10 day of Ortobo 2012
Notary Public
My commission expires: January 9, 2015
Printer's Fee\$ 70.14
Affidavit, Notary's Fee \$ 3.00
Additional Copies\$
Total Publication Fees\$ 73.14
Iviai I uviicativii I ccs 4 1011



#### **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 11th of

October 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

11th day of October, 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 OCTOBER 11, 2012 (321) 483) BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION
RE: In the Matter of Postreck Midconlinent
Production, LLC Application for
Comminging of Production in the Taylor,
Wayne L 22-3 located in Neesho County,

Commingling of Production in the Taylor, Wavine L 22-3 localed in Nessho County, Kansas.

To: All Oil & Gas Producers, Unleased Mineral Inlerest Owners, Landewners, and all persons whomever concerned.

You, and each of you, are he eby notified that Postrock Mildcontinent Production, LLC has filed an application to commingle the Summit, Mulky, Croweburg, Flemting, Weir, Rowe, Neutral, Riverton and Cattleman producing formations at the Taylor, Wayne L 22-3, localed in the NE SE ST NE, S22-T28S-R18E, Approximately 2075 FBL. & 1620 FEL. Nessho County, Kansas.

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All persons inferested or concerned shall take notice of the foregoing and shall govern themselves accordingly. All person and/or companies withing to protest liths application are required to file a written erotest with the Conservation Division of the Eansas 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 faelr own behalf. Postrock Mildcontinent Production, LLC 210 Park Ayenue, Suite 2750 (Mahema City, Oklahoma 73102)

Affidavit of Notice Served	
Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS ACO-4	
Well Name: TAYLOR, WAYNE L 22-3 Legal Location: NESESWNE S22-T28S-R1	8E
The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day 35 <sup>th</sup> of OCTOBER	
	1
, a true and correct copy of the application referenced above was delivered or mailed to the following parties:	
Note: A copy of this affidavit must be served as a part of the application.	
Name Address (Attach additional sheets if necessary)	
GARY E ENOS 200 N GRANT ST, CLEARWATER	R KS 67026
200 17 31 7 31, 3227 11 77 11	1, 110 07020
THE CHANILTE TOIDLINE	
MEGGLIG	fficial county publication
of NEOSHO county. A copy of the affidavit of this publication is attached.	
Signed this 25th day of OCTOBER 2012	
1115/	
Applicant or Duly Authorized Agent	
Subscribed and sworn to before me this 25th day of OCTOBER	, 2012
JENNIFER R. BEAL  OFFICIAL MY COMMISSION EXPIRES  Notary Pumps  Notary Pumps	-
7-20-2014 My Commission Expires: Quelos 20, 2014	

#### TAYLOR, WAYNE L 22-3-APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

Offset Operators, Unleased Mineral Owners and Landowners acreag	ne
(Altach additional sheets if necessary)	and the second second
Name: SEE ATTACHED	Legal Description of Leasehold:
OLL ATTACKED	
Total Control of the	The state of the s
I hereby certify that the statements made herein are true and correct to the bes	st of mv knowledge and belief.
_	CHELL
Ap	plicant or Duly Authorized Agent
Subscribed and sworn b	efore me this _25 <sup>th</sup> day of OCTOBER ,2012
	0 1 2 2 1
JENNIFER R. BEAL	( / Lypus fre to to to to to
ME OFFICIALE MAY COMMISSION EXPIRES () NO	tary Public
7 20 - 2011	tery Pupilica
7 20-2011	commission Expires: July 20, 2014
7 20-2011	Commission Expires: Quely 20, 2016
7 20-2011	Commission Expires: July 20, 2016
7 20-2011	Commission Expires: Quely 20, 2016
7-20-2016 My	Commission Expires: Quely 20, 2014
7 20-2011	Commission Expires: Quely 20, 2016
7-20-2016 My	
7-20-2016 My	Commission Expires: Quely 20, 2016
7-20-2016 My	

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

November 9, 2012

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

RE: Approved Commingling CO101222

Taylor, Wayne L. 22-3, Sec. 22-T28S-R18E, Neosho County

API No. 15-133-26897-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on October 26, 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 CO101222 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