



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

OPERATOR: License # \_\_\_\_\_ API No. 15 - \_\_\_\_\_  
Name: \_\_\_\_\_ Spot Description: \_\_\_\_\_  
Address 1: \_\_\_\_\_ - - - - - Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
Address 2: \_\_\_\_\_ Feet from  North /  South Line of Section  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_ Feet from  East /  West Line of Section  
Contact Person: \_\_\_\_\_ County: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

1. Name and upper and lower limit of each production interval to be commingled:  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_

2. Estimated amount of fluid production to be commingled from each interval:  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_

3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.

4. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

**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 subject well.

**For Commingling of FLUIDS ONLY, include the following:**

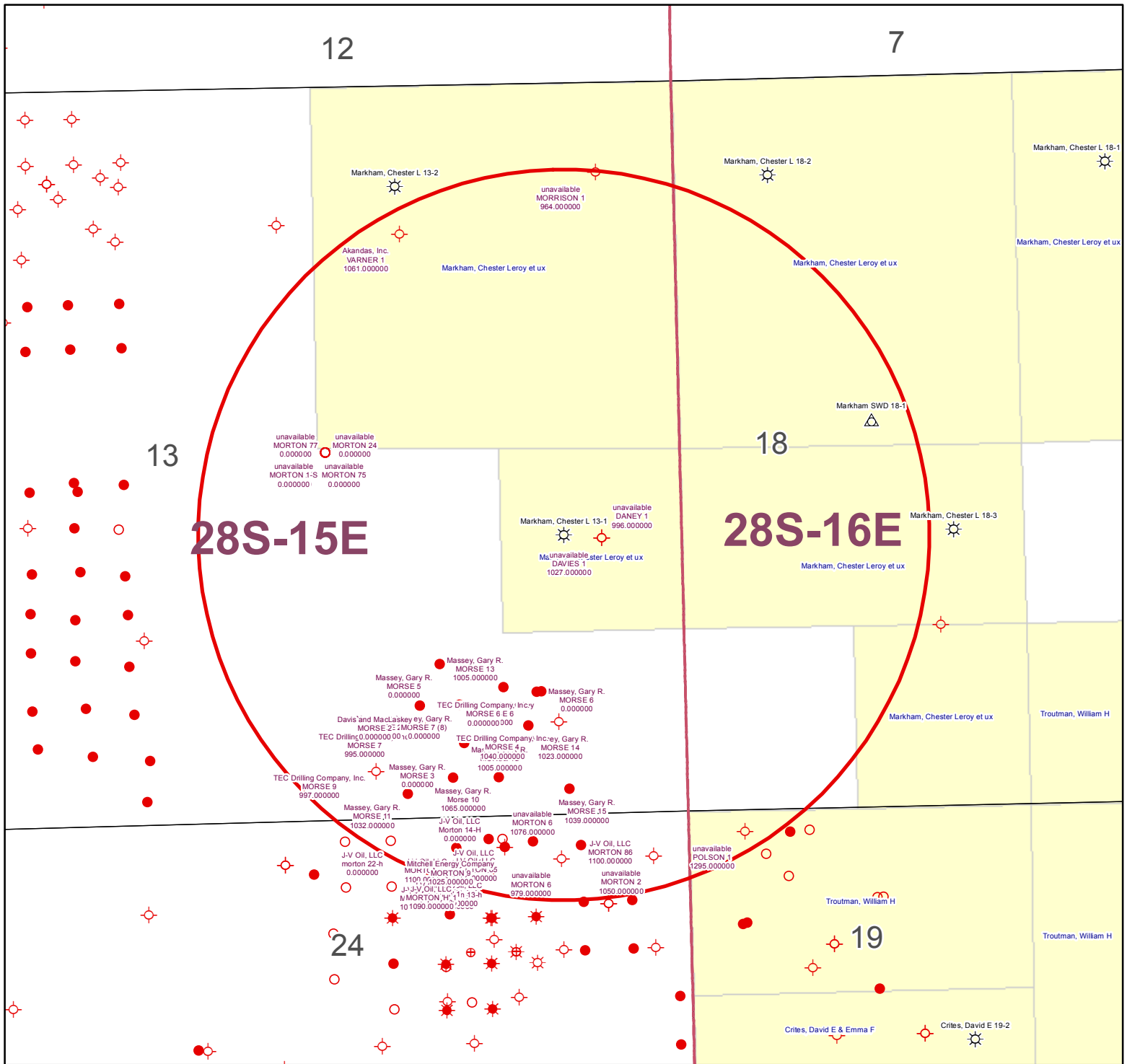
- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

**AFFIDAVIT:** I am the affiant and hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

**Submitted Electronically**

**KCC Office Use Only**  
 Denied  Approved  
15-Day Periods Ends: \_\_\_\_\_  
Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

*Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.*



KGS STATUS	
⊕	DA/PA
⊗	EOR
☀	GAS
△	INJ/SWD
●	OIL
☀	OIL/GAS
○	OTHER

Markham, Chester L 13-1  
 13-28S-15E  
 1" = 1,000'

	A	B	C	D	E	F	G	H	I	J	K	
1	Produced Fluids #		1	2	3	4	5		<a href="#">Click here to run SSP</a>  Goal Seek SSP		Click	
2	Parameters	Units	Input	Input	Input	Input	Input					Click
3	Select the brines	Select fluid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mixed brine:				
4	Sample ID	by checking						Cell H28 is				
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				Click
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines				
9	Field		CBM	CBM	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 (Final-Initial)	
11	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index values			
12	Mg <sup>2+</sup>	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite			
13	Ca <sup>2+</sup>	(mg/l)	1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040.23	-0.73	-0.60	0.13	
14	Sr <sup>2+</sup>	(mg/l)						0.00	Barite			
15	Ba <sup>2+</sup>	(mg/l)						0.00				
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite			
17	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03	
18	Pb <sup>2+</sup>	(mg/l)						0.00	Gypsum			
19	Cl <sup>-</sup>	(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 <sub>4</sub> <sup>2-</sup>	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate			
21	F <sup>-</sup>	(mg/l)						0.00	-3.96	-3.90	0.06	
22	Br <sup>-</sup>	(mg/l)						0.00	Anhydrite			
23	SiO <sub>2</sub>	(mg/l) SiO <sub>2</sub>						0.00	-3.47	-3.36	0.12	
24	HCO <sub>3</sub> Alkalinity**	(mg/l as HCO <sub>3</sub> )	190.00	234.00	259.00	268.00	254.00	241.03	Celestite			
25	CO <sub>3</sub> Alkalinity	(mg/l as CO <sub>3</sub> )										
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide			
27	Ammonia	(mg/L) NH <sub>3</sub>						0.00	-0.16	-0.22	-0.06	
28	Borate	(mg/L) H <sub>3</sub> BO <sub>3</sub>						0.00	Zinc Sulfide			
29	TDS (Measured)	(mg/l)						72781				
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium fluoride			
31	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16				
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate			
33	Total H <sub>2</sub> Saq	(mgH <sub>2</sub> S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23	
34	pH <sub>i</sub> measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)			
		0-CO <sub>2</sub> %+Alk, 1-pH+Alk, 2-CO <sub>2</sub> %+pH							Calcite	NTMP		
35	Choose one option to calculate SI?		0	0	0	0	0					
36	Gas/day(thousand cf/day)	(Mc/D)						0	0.00	0.00		
37	Oil/Day	(B/D)	0	0	1	1	1	4	Barite	BHPMP		
38	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0.00		
39	For mixed brines, enter values for temperatures and pressures in Cells (H40-H43)								(Enter H40-H43)			
40	Initial T	(F)	66.0	71.0	70.0	41.0	49.0	60.0	5.69	5.60		
41	Final T	(F)	66.0	71.0	70.0	41.0	49.0	89.0	Viscosity (CentiPoise)			
42	Initial P	(psia)	25.0	25.0	25.0	25.0	25.0	25.0	1.196	0.826		
43	Final P	(psia)	25.0	25.0	25.0	25.0	25.0	120.0	Heat Capacity (cal/ml <sup>0</sup> C)			
44	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959		
45	API Oil Grav.	API grav.						30.00	Inhibitor needed (mg/L)			
46	Gas Sp.Grav.	Sp.Grav.						0.60	Gypsum	HDTMP		
47	MeOH/Day	(B/D)	0					0	0.00	0.00		
48	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP		
49	Conc. Multiplier								0.00	0.00		
50	H <sup>+</sup> (Strong acid) <sup>†</sup>	(N)										
51	OH <sup>-</sup> (Strong base) <sup>†</sup>	(N)										
52	Quality Control Checks at STP:											
53	H <sub>2</sub> S Gas	(%)										
54	Total H <sub>2</sub> Saq (STP)	(mgH <sub>2</sub> S/l)										
55	pH Calculated	(pH)										
56	PCO <sub>2</sub> Calculated	(%)										
57	Alkalinity Cacluated	(mg/l) as HCO <sub>3</sub>										
58	ΣCations=	(equiv./l)										
59	ΣAnions=	(equiv./l)										
60	Calc TDS=	(mg/l)										
61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)						
62	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value			
63	Have ScaleSoftPitzer			2	BHPMP	°C	80	°F	176			
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m <sup>3</sup>	100	ft <sup>3</sup>	3,531			
65	If No, inhibitor # is:	4	#	4	DTPMP	m <sup>3</sup>	100	bb(42 US gal)	629			
66	If you select Mixed,			5	PPCA	MPa	1,000	psia	145,074			
67	1 <sup>st</sup> inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194			
68	% of 1 <sup>st</sup> inhibitor is:	50	%	7	HEDP	Torr	10,000	psia	193			
69	2 <sup>nd</sup> inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bb(42 US gal)	238			
70	Display act. coeffs?	0	1-Yes;0-No	9	Average	Liters	10,000	bb(42 US gal)	63			
71				10	Mixed							

## 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

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

### Saturation Index

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

### PTB

Calcite	N/A	N/A	N/A	N/A	N/A	N/A
Gypsum	N/A	N/A	N/A	N/A	N/A	N/A
Hemihydrate	N/A	N/A	N/A	N/A	N/A	N/A
Anhydrite	N/A	N/A	N/A	N/A	N/A	N/A
Barite	N/A	N/A	N/A	N/A	N/A	N/A
Celestite	N/A	N/A	N/A	N/A	N/A	N/A

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
September 1999  
Form Must Be Typed

**ORIGINAL**

Operator: License # 33344  
 Name: Quest Cherokee, LLC  
 Address: 211 W. 14th Street  
 City/State/Zip: Chanute, KS 66720  
 Purchaser: Bluestem Pipeline, LLC  
 Operator Contact Person: Jennifer R. Ammann  
 Phone: (620) 431-9500  
 Contractor: Name: B C Steel  
 License: 33783  
 Wellsite Geologist: Ken Recoy  
 Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc)  
 If Workover/Re-entry: Old Well Info as follows:  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_  

<u>7/17/06</u>	<u>7/21/06</u>	<u>7/27/06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 205-26790-00-00  
 County: Wilson  
 \_\_\_\_\_ - ne - se Sec. 13 Twp. 28 S. R. 15  East  West  
1980 feet from (S) N (circle one) Line of Section  
810 feet from (E) W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: Markham, Chester L. Well #: 13-1  
 Field Name: Cherokee Basin CBM  
 Producing Formation: Multiple  
 Elevation: Ground: 930 Kelly Bushing: n/a  
 Total Depth: 1310 Plug Back Total Depth: 1305.76  
 Amount of Surface Pipe Set and Cemented at 20' 8" Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 1305.6  
 feet depth to surface w/ 142 sx cmt.

**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit) *ALT II with 12-12-07*  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used \_\_\_\_\_  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Jennifer R. Ammann  
 Title: New Well Development Coordinator Date: 11/20/06  
 Subscribed and sworn to before me this 20<sup>th</sup> day of November,  
2006.  
 Notary Public: Debra Klauman  
 Date Commission Expires: 8-4-2010

**TERRA KLAUMAN**  
 Notary Public - State of Kansas  
 My Appt. Expires 8-4-2010

**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
 KANSAS CORPORATION COMMISSION  
 NOV 21 2006

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Quest Cherokee, LLC Lease Name: Markham, Chester L. Well #: 13-1  
 Sec. 13 Twp. 28 S. R. 15  East  West County: Wilson

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  <b>Compensated Density Neutron Log</b> <b>Dual Induction Log</b> <b>Gamma Ray CCL</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum See attached
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8"	20	20' 8"	"A"	4	
Production	6-3/4	4-1/2	10.5#	1305.76	"A"	142	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	1034-1036/1000-1002/952-954/917-920/899-901	400gal 15% HCL w/ 30 bbls 2% kcl water, 535bbls water w/ 2% KCL, Blockde 16007# 20440 sand	1034-1036/1000-1002  952-954 917-920/899-901
4	831-836/819-823	400gal 15% HCL w/ 35 bbls 2% kcl water, 600bbls water w/ 2% KCL, Blockde 13488# 20440 sand	831-836/819-823

TUBING RECORD	Size Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
waiting on pipeline			

Date of First, Resumerd Production, SWD or Enhr.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

**B-U STEEL LLC**  
**Drilling Field Services**  
**PO Box 326**  
**Yates Center, KS 66783**

**Rig# 1**  
**API# 15-205-26790-0000**  
**Operator Quest Cherokee LLC OP #33344**

**County Wilson**  
**State KS**  
**Section 13**  
**Township 28S**  
**Range 15**

**Well# 13-1**  
**Lease Name Chester L. Markham**  
**Location 1980 ft from South Line**  
**810 ft from East Line**

**Spud Date 7/19/2006**  
**Date Complete 7/21/2006**  
**Total Depth 1310**

**Hole Size**                      **Surface**                      **Production**  
**Casing Size**                **12 1/2**                      **6 3/4**  
**Setting Depth**              **8 5/8**  
**Cement Type**                **20ft 8"**  
**Sacks**                        **6**  
**Surface furnished by BCDFS**  
**Cement furnished by BCDFS**

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**SEP 20 2007**

**CONSERVATION DIVISION**  
**WICHITA, KS**

Depth in Feet From	To	Formation	Remarks	Gas Test
0	485			810 FT NO FLOW
485	516	Lime		860 NO FLOW
516	517	Coal		910 NO FLOW
517	547	Lime		1010 NO FLOW
547	575	Shale		1110 3/8 4 7.1
575	577	Coal		
577	580	Lime		
580	597	Shale		
597	602	Lime		
602	610	Shale		
610	620	Lime		
620	631	Shale		
631	640	Lime		
640	651	Shale		
651	670	Sand		
670	740	Shale		
740	742	Coal		
742	745	Lime		
745	748	Coal		
748	750	Shale		
750	768	Lime		
768	770	Coal		
770	804	Shale		
804	822	Lime	Oswego	
822	824	Coal		
824	833	Lime		
833	835	Coal	Mulkey	
835	845	Shale		
845	870	Sand		
870	897	Shale		
897	901	Sand		
901	903	Shale		
903	905	Coal		
905	916	Shale		
916	918	Lime	Verdigus	
918	920	Coal		
920	930	Sand		
930	947	Shale		
947	948	Lime		
948	950	Coal	Fleming	
950	955	Shale		
955	957	Coal		
957	968	Shale		
968	970	Coal	Scammon	
970	981	Shale		
981	983	Coal		
983	1002	Shale		
1002	1004	Coal		
1004	1028	Sand		

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CONSERVATION DIVISION  
WICHITA, KS

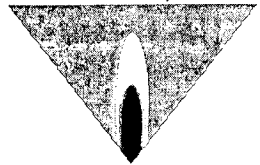


1028	1035	Shale	
1035	1037	Coal	
1037	1044	Shale	
1044	1058	Sand	
1058	1070	Shale	
1070	1200	Sand	
1200	1210	Shale	
1210	1310	Shale	Mississippi

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 SEP 20 2007  
 CONSERVATION DIVISION  
 WICHITA, KS

# QUEST

Resource Corporation



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

TICKET NUMBER 1720

FIELD TICKET REF # \_\_\_\_\_

FOREMAN Chris R. ...

## TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
July 27, 2006	Markham Master 2 13-1	13	23	15	Wichita

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Chris R.	2:00	6:00		903127		4	<i>Chris R.</i>
Tim A.		5:45		903255		3.75	<i>Tim A.</i>
Maverick D.		5:00				3.00	<i>Maverick D.</i>
David E.		5:20		903230		3.5	<i>David E.</i>
David C.	7:00am	5:45		903140	902452	10:45	<i>David C.</i>
Troy W.		6:00		903106		4	<i>Troy W.</i>
Russell A.		5:00		Extra		3	<i>Russell A.</i>

JOB TYPE <u>logging</u>	HOLE SIZE <u>6 3/4</u>	HOLE DEPTH <u>1310</u>	CASING SIZE & WEIGHT <u>2 1/2 - 11.5</u>
CASING DEPTH <u>1305.76</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT <u>14.5</u>	SLURRY VOL _____	WATER gal/sk _____	CEMENT LEFT in CASING <u>0</u>
DISPLACEMENT <u>20.22</u>	DISPLACEMENT PSI _____	MIX PSI _____	RATE <u>4.0 bpm</u>

REMARKS:

Ran 2 sacks of gel and swept to surface. Trilled cement head, pumped 2 sacks of gel and dye and 142 sacks of cement to get dye to surface. Finished pump; pumped wipeplug to bottom; set the shoe.

	1305.76	Ft 4 1/2 casing	
	6	centralizer	
903127	2.5 hr	casing truck	
903230	2.5 hr	casing trailer	
	1	4 1/2 casing clamp	

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903127	1 hr	Foreman Pickup	
903255	3.75 hr	Cement Pump Truck	
903230	3.5 hr	Bulk Truck	
1104	1360 sk	Portland Cement	
1124	1	50/50 POZ Blend Cement 3 1/2 Baffle	
1126	1	OWC Blend Cement 1/2 wipeplug	
1110	1 1/2 sk	Gilsonite	
1107	1	Flo-Seal	
1118	4 sk	Premium Gel	
1215A	1 gal	KCL	
1111B	2	Sodium Silicate catchment	
1123	7000 gal	City Water	
903140	2 hr	Transport Truck	
902452	2 hr	Transport Trailer	
903106	4 hr	80 Vac	
Ravin 4513	1	4 1/2 Pivots shoe	

RECEIVED  
KANSAS CORPORATION COMMISSION

NOV 21 2006

CONSERVATION DIVISION  
WICHITA, KS

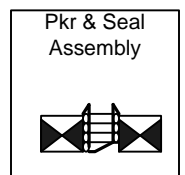
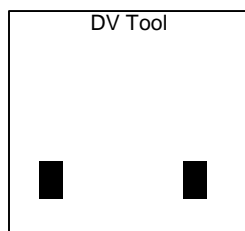
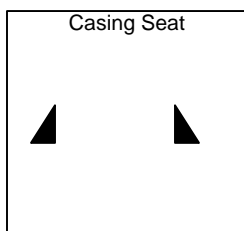
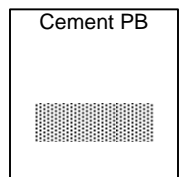
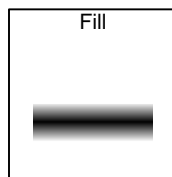
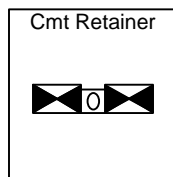
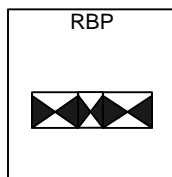
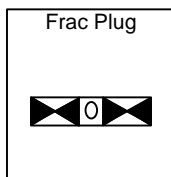
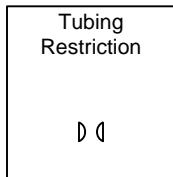
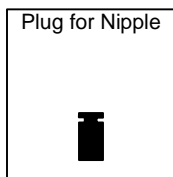
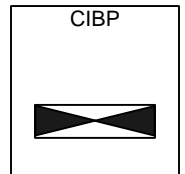
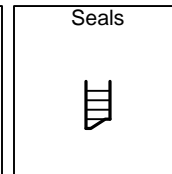
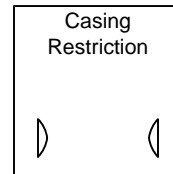
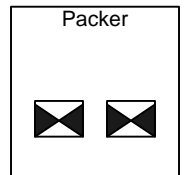
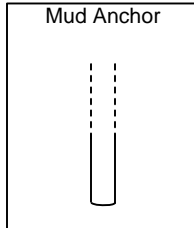
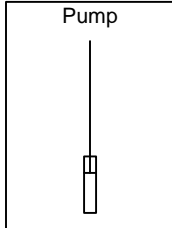
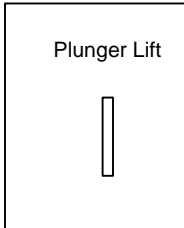
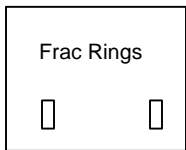
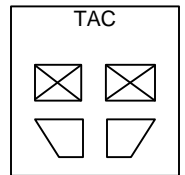
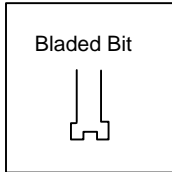
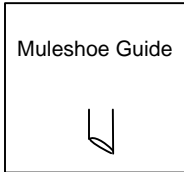
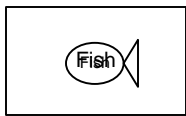
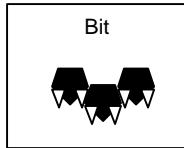
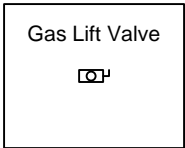
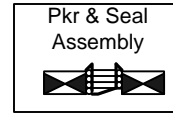
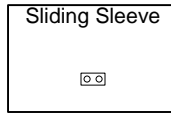
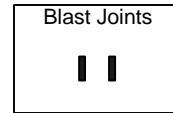
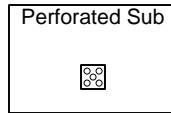
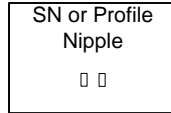
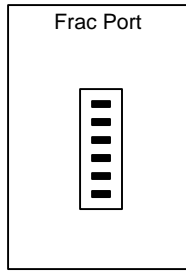
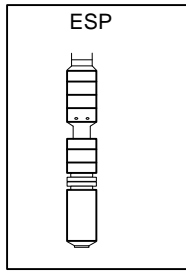


# POSTROCK



## LEGEND

PostRock<sup>®</sup>





**AFFIDAVIT**

STATE OF KANSAS \
- SS.
County of Sedgwick /

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

made as aforesaid on the 17th of

January A.D. 2013, 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.

*Mark Fletchall*

Subscribed and sworn to before me this

17th day of January, 2013

PENNY L. CASE
Notary Public - State of Kansas
My Appt. Expires 7/28/2014

*Penny L. Case*
Notary Public Sedgwick County, Kansas

Printer's Fee : \$132.40

**LEGAL PUBLICATION**

PUBLISHED IN THE WICHITA EAGLE
JANUARY 17, 2013 (3227070)
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
Commingle of Production in the
Markham, Chester L 13-1 located in
Wilson County, Kansas.
TO: All Oil & Gas Producers, Unleased Mineral
Interest Owners, Landowners, and all
persons whomsoever concerned.
You, and each of you, are hereby notified
that Postrock Midcontinent Production, LLC
has filed an application to commingle the
Summit, Mulky, Bevier, Croweburg, Fleming,
Tebo, Weir and Bartlesville producing
formations at the Markham, Chester
L 13-1, located in the NE SE, S13-T28S-R15E,
Approximately 1980 FSL & 810 FEL, Wilson
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

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 17th day of January, 2013
- 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: \$ 37<sup>73</sup>

(Signed) Joseph S. Relph

Subscribed and sworn to before me, this 18th day of January, 2013

Rita M. Relph (Notary Public)

My commission expires Aug. 30, 2014

(Published in the Wilson County Citizen on Thursday, January 17, 2013.)

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 Markham, Chester L 13-1 located in Wilson County, Kansas.

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

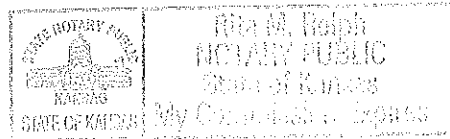
You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filed an application to commingle the Summit, Mulky, Bevier, Croweburg, Fleming, Tebo, Weir and Bartlesville producing formations at the Markham, Chester L 13-1, located in the NE SE, S13-T28S-R16E, Approximately 1980 FSL & 810 FEL, Wilson 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  
96 1 cpy.



**Affidavit of Notice Served**

Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS ACO-4

Well Name: MARKHAM, CHESTER L 13-1 Legal Location: NESE S13-T28S-R15E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 8<sup>th</sup> of FEBRUARY, 2013, 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)

SEE ATTACHED

I further attest that notice of the filing of this application was published in the WILSON COUNTY CITIZEN, the official county publication of WILSON county. A copy of the affidavit of this publication is attached.

Signed this 8<sup>th</sup> day of FEBRUARY, 2013

*[Handwritten Signature]*

Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 8<sup>th</sup> day of FEBRUARY, 2013



*[Handwritten Signature: Jennifer R. Beal]*  
Notary Public

My Commission Expires: July 20, 2016





**MARKHAM, CHESTER L 13-1**

<b>LEGAL LOCATION</b>	<b>SPOT</b>	<b>CURR_OPERA</b>	<b>ADDRESS</b>
S13-T28S-R15E	SW NW NE	Akandas, Inc.	4100 240TH ROAD, CHANUTE, KS 66720
S13-T28S-R15E	SE NW SW SE	Davis and MacLaskey	700 W PINE ST, TUCSON, AZ 85704
S13-T28S-R15E	SW NW SE SE	Davis and MacLaskey	700 W PINE ST, TUCSON, AZ 85704
S24-T28S-R15E	SE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	SE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NW NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
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S24-T28S-R15E	NE NW NE NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	SW NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S13-T28S-R15E	SE SE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE SW SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	NW SE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE NE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	NW SW SE SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE SW SE SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE NW SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SW SE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	NW NE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SW NW SE SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SW NE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S24-T28S-R15E	NE NE NW NE	Mitchell Energy Company	5008 PROSPECT AVENUE, KANSAS CITY, MO 64130
S13-T28S-R15E	W2 SE SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045
S13-T28S-R15E	SW NW SE SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045
S13-T28S-R15E	SW SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045
S13-T28S-R15E	SW SW SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045

**MARKHAM, CHESTER L 13-1**

**13-28S-15E**

**Remainder of AOI in section 13**

Patricia L Madden Rev. Trust  
PO Box 425  
Fredonia, KS 66736

**24-28S-15E**

**NE4 less tract**

Doris I. Morton  
318 N 6th  
Fredonia, KS 66736

**tract in NE/4**

Patricia L Madden Rev. Trust  
PO Box 425  
Fredonia, KS 66736

**18-28S-16E**

**SW4 SW4**

Patricia L Madden Rev. Trust  
PO Box 425  
Fredonia, KS 66736



**MARKHAM, CHESTER L 13-1**

<b>LEGAL LOCATION</b>	<b>SPOT</b>	<b>CURR_OPERA</b>	<b>ADDRESS</b>
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S13-T28S-R15E	SE NW SW SE	Davis and MacLaskey	700 W PINE ST, TUCSON, AZ 85704
S13-T28S-R15E	SW NW SE SE	Davis and MacLaskey	700 W PINE ST, TUCSON, AZ 85704
S24-T28S-R15E	SE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	SE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NW NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NE NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	SW NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S24-T28S-R15E	NE NW NE	J-V Oil, LLC	PO BOX 151, CHANUTE, KS 66720
S13-T28S-R15E	SE SE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE SW SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	NW SE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE NE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	NW SW SE SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE SW SE SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SE NW SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SW SE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	NW NE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SW NW SE SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S13-T28S-R15E	SW NE SW SE	Massey, Gary R.	1085 180TH ST, EUREKA, KS 67045
S24-T28S-R15E	NE NE NW NE	Mitchell Energy Company	5008 PROSPECT AVENUE, KANSAS CITY, MO 64130
S13-T28S-R15E	W2 SE SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045
S13-T28S-R15E	SW NW SE SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045
S13-T28S-R15E	SW SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045
S13-T28S-R15E	SW SW SE	TEC Drilling Company, Inc.	111 WEST THIRD, PO BOX 29, EUREKA, KS 67045

**MARKHAM, CHESTER L 13-1**

**13-28S-15E**

**Remainder of AOI in section 13**

Patricia L Madden Rev. Trust

PO Box 425

Fredonia, KS 66736

**24-28S-15E**

**NE4 less tract**

Doris J. Morton

318 N 6th

Fredonia, KS 66736

**tract in NE/4**

Patricia L Madden Rev. Trust

PO Box 425

Fredonia, KS 66736

**18-28S-16E**

**SW4 SW4**

Patricia L Madden Rev. Trust

PO Box 425

Fredonia, KS 66736

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

February 25, 2013

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

RE: Approved Commingling CO021307  
Markham, Chester L. 13-1, Sec. 13-T28S-R15E, Wilson County  
API No. 15-205-26790-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on February 11, 2013, 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 Bartlesville 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 CO021307 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