



**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.*

	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)			
35	Choose one option to calculate SI?	0-CO <sub>2</sub> %+Alk, 1-pH+Alk, 2-CO <sub>2</sub> %+pH	0	0	0	0	0	0	Calcite	NTMP		
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/°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) †	(N)										
51	OH <sup>-</sup> (Strong base) †	(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

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

8/15/09

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: TXD  
License: 33837

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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. \_\_\_\_\_  
4/19/07                      4/23/07                      4/23/07  
Spud Date or                      Date Reached TD                      Completion Date or  
Recompletion Date                                           Recompletion Date

API No. 15 - 133-26897-0000  
County: Neosho  
ne - se - sw - ne Sec. 22 Twp. 28 S. R. 18  East  West  
2075 feet from S / N (circle one) Line of Section  
1620 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Taylor, Wayne L. Well #: 22-3  
Field Name: Cherokee Basin CBM

Producing Formation: multiple  
Elevation: Ground: 986 Kelly Bushing: n/a  
Total Depth: 1145 Plug Back Total Depth: 1130.15  
Amount of Surface Pipe Set and Cemented at 20 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1130.15  
feet depth to surface w/ 136 sx cmt.

Drilling Fluid Management Plan At I NJ 2-2009  
(Data must be collected from the Reserve Pit)  
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: 8/15/07  
Subscribed and sworn to before me this 15<sup>th</sup> day of August  
07  
Notary Public: Dexia Klauman  
Date Commission Expires: 8-4-2010

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

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

RECEIVED  
KANSAS CORPORATION COMMISSION  
AUG 17 2007  
CONSERVATION DIVISION

Operator Name: Quest Cherokee, LLC Lease Name: Taylor, Wayne L. Well #: 22-3  
 Sec. 22 Twp. 28 S. R. 18  East  West County: Neosho

**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Compensated Density Neutron Log Dual Induction Log Gamma Ray Neutron Log	<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"	22	20	"A"	5	
Production	6-3/4	4-1/2	10.5	1130.15	"A"	136	

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 (Amount and Kind of Material Used)	Depth
4	1041-1045/989-991/984-985	300gal 15%HCLw/ 24 bbls 2%kcl water, 507bbls water w/ 2% KCL, Biocide, 9900# 20/40 sand	1041-1045/889-891
			984-985
4	881-883/801-803/791-793/774-776/734-737	300gal 15%HCLw/ 34 bbls 2%kcl water, 516bbls water w/ 2% KCL, Biocide, 10700# 20/40 sand	881-883/801-803
			791-793
			774-776/734-737
4	629-633/616-620	300gal 15%HCLw/ 38 bbls 2%kcl water, 516bbls water w/ 2% KCL, Biocide, 10300# 20/40 sand	629-633/616-620

TUBING RECORD		Size Set At	Packer At	Liner Run
2-3/8"		1083	n/a	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 6/7/07		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls. n/a	Gas Mcf 16.9mcf	Water Bbls. 75bbls	Gas-Oil Ratio Gravity

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 \_\_\_\_\_

TXD SERVICES LP

DRILLERS LOG

TXD SERVICES LP

RIG #	101	S. 22	T. 28	R. 18			
API #	133-26897	County:	Neosho	312'	5 - 1/2"	14.1	
	Elev: 986'	Location	Kansas	529'	5 - 1/2"	14.1	
				560'	5 - 1/2"	14.1	
Operator:	Quest Cherokee, 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, Wayne	808'	8 - 3/4"	40	
Footage Location	2025 ft from the	N	Line	839'	8 - 3/4"	40	
	1620 ft from the	E	Line	901'	8 - 3/4"	40	
Drilling Contractor:	TXD SERVICES LP			932'	8 - 3/4"	40	
Spud Date;	NA	Geologist:		994'	8 - 3/4"	40	
Date Comp:	4/21/2007	Total Depth:	1149'	1056'	8 - 3/4"	40	
Exact spot Location;	NE SE SW NE			1087'	8 - 3/4"	40	
				1149'	8 - 3/4"	40	
Surface	Production						
Size Hole	12-1/4"	6-3/4"					
Size Casing	8-5/8"	4-1/2"					
Weight	24#						
Setting Depth	21'						
Type Cement	portland						
Sacks							

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Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
top soil	0	1	sand	470	484	lime	738	740
clay, shale	1	21	shale	484	510	shale	740	742
lime	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	643	coal	908	909
sand	442	446	sand	643	649	shale	909	951
shale	446	466	shale	649	715	coal	951	952
coal	466	467	coal	715	716	shale	952	971
shale	467	470	shale	716	738	sand	971	984

281' added water, 813-827' odor, 873-880' odor

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WICHITA, KS

Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
shale	984	986						
coal	986	987						
shale	987	990						
coal	990	991						
shale	991	1004						
coal	1004	1005						
shale	1005	1041						
coal	1041	1043						
shale	1043	1056						
lime	1056	1149						

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 WICHITA, KS

# QUEST

Resource Corporation

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

TICKET NUMBER **2142**

FIELD TICKET REF. \_\_\_\_\_

FOREMAN Joe

621030

## TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-23-07	Taylor Wayne 22-3	22	28	18	NO

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe B	12:00	5:15		903427		5.25	Joe Blanchard
MAURICK D	↓	5:00		903197		5	Maurick D
Tyler G	↓	5:00		903142	932452	5	Tyler G
Gary C	2:00	5:30		931500		5.85	Gary C

JOB TYPE Long string HOLE SIZE 6 3/4 HOLE DEPTH 1145 CASING SIZE & WEIGHT 4 1/2 16.5  
 CASING DEPTH 1130.15 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 0  
 DISPLACEMENT 18.00 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 46 bpm

REMARKS:

INSTALLED cement head RAW 1 sk gal + 12 bbl dye + 136 SKS of cement To get dye to surface. flush pump. Pump wiper plug to bottom + set float shoe

KCC

AUG 15 2007

CONFIDENTIAL

1130.15	f + 4 1/2 Casing
6	Central c-rs
1	4 1/2 float shoe

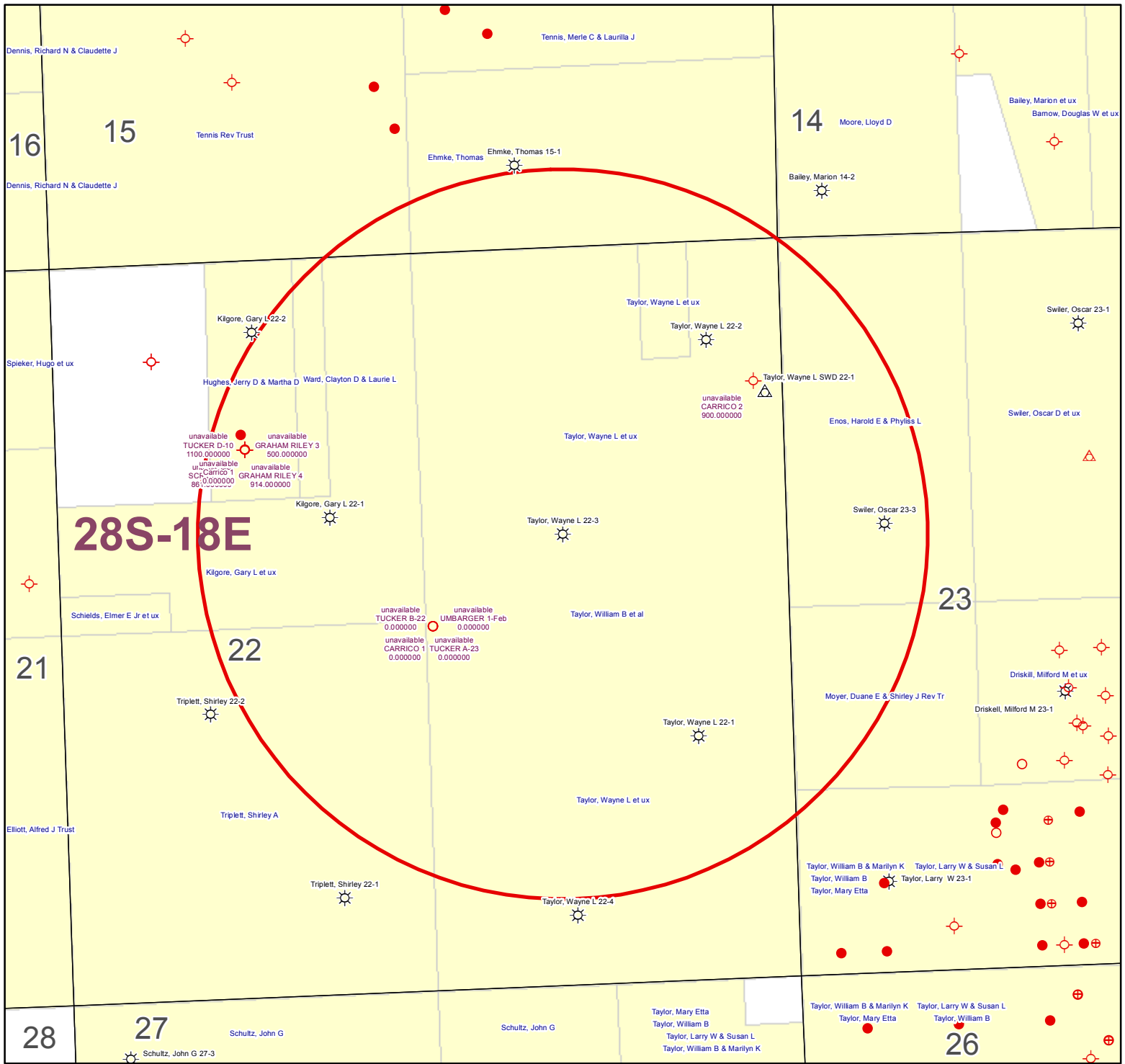
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903427	5.25 hr	Foreman Pickup	
903197	5 hr	Cement Pump Truck	
903206	5 hr	Bulk Truck	
1104	130 SK	Portland Cement	
1124	2	50/50 POZ Blend Cement Baffle 3 1/2 #3	
1126	1	OWC Blend Cement 4 1/2" wiper plug	
1110	13 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
111B	1 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	Sodium Silicate calchloride	
1123	700 gal	City Water	
903142	2 hr	Transport Truck	
932452	2 hr	Transport Trailer	
931500	5.25 hr	80 Vac	

RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 17 2007

CONSERVATION DIVISION  
WICHITA, KS





- KGS STATUS**
- ⊕ DA/PA
  - ⊕ EOR
  - ☀ GAS
  - △ INJ/SWD
  - OIL
  - ☀ OIL/GAS
  - OTHER

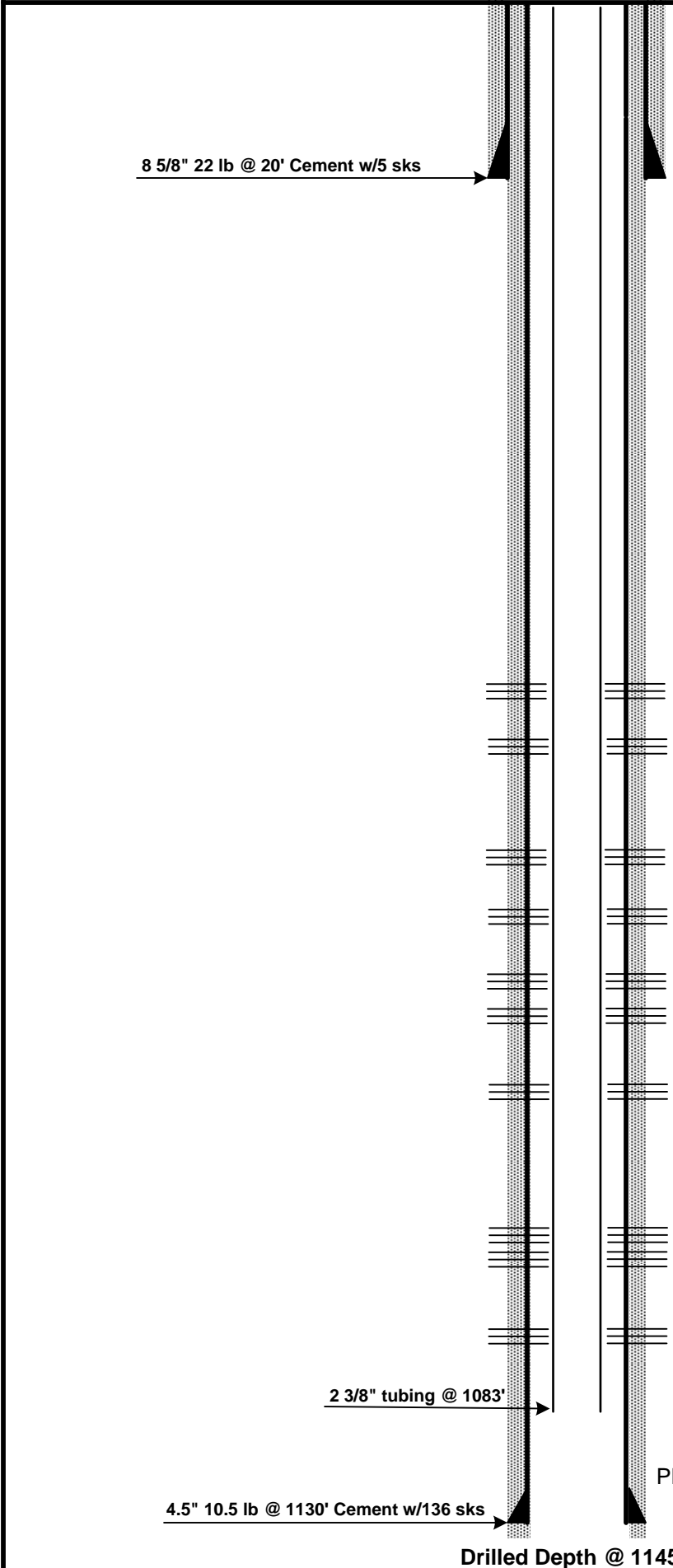
Taylor, Wayne L 22-3  
 22-28S-18E  
 1" = 1,000'



WELL : Taylor, Wayne L 22-3  
 FIELD : Cherokee Basin  
 STATE : Kansas  
 COUNTY : Neosho

SPUD DATE : 4/19/2007  
 COMP. Date : 4/23/2007  
 API: 15-133-26897-00-00

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



Wellhead/Surface Equipment

Tree Connection	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

Tubular Detail

Size	Weight	Grade	Cap(bbl/ft)	Date	Depth
8 5/8"	22 lb			2007	20'
4 1/2"	10.5 lb		.0159	2007	1130'
2 3/8"				2007	1083'

Downhole Equipment Detail


Completion Data

Original as GAS Well per ACO-1	
900 gals 15% HCL	
1,539 bbls water	
30,900 lbs 20/40 sand	

Perforations

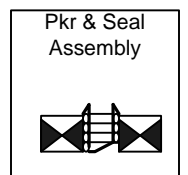
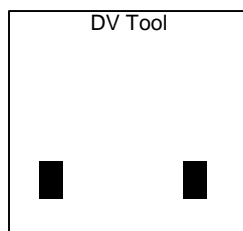
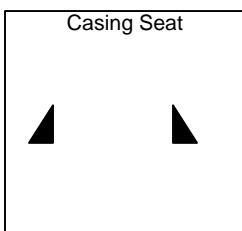
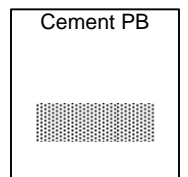
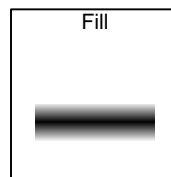
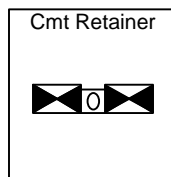
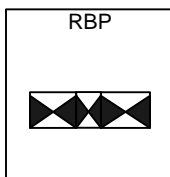
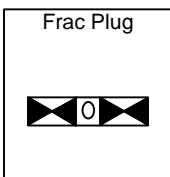
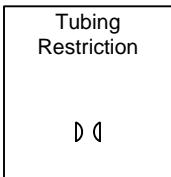
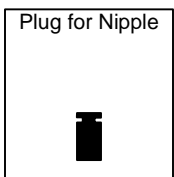
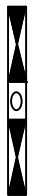
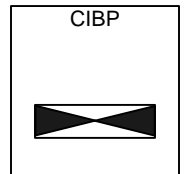
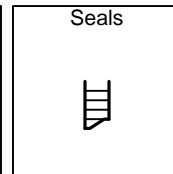
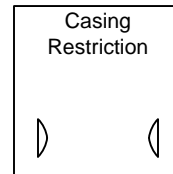
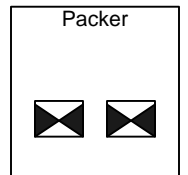
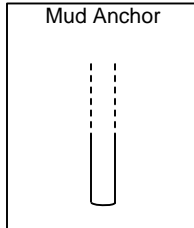
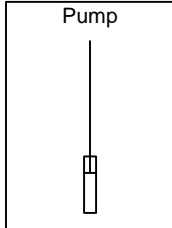
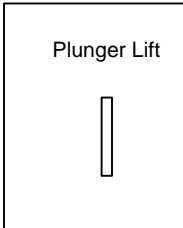
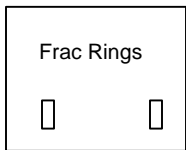
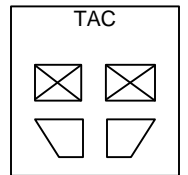
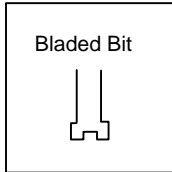
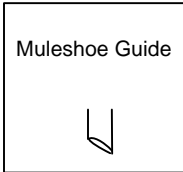
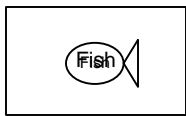
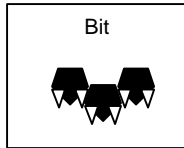
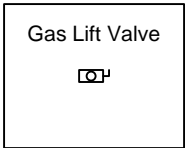
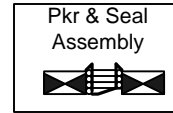
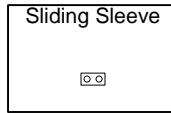
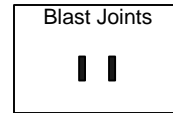
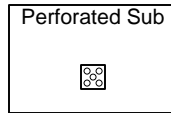
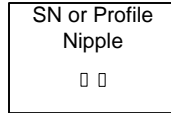
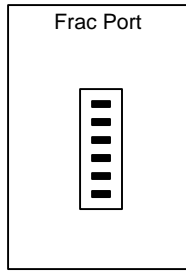
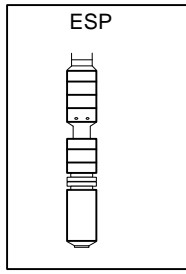
Original Completion: 4 spf
616-620 Summit (17)
629-633 Mulky (17)
734-737 Croweburg (13)
774-776 Fleming (9)
791-793 Fleming (9)
801-803 Fleming (9)
881-883 Weir (9)
984-985 Rowe (5)
989-991 Neutral (9)
1041-1045 Riverton (17)

# POSTROCK



## LEGEND

PostRock®



**TAYLOR, WAYNE L 22-3**

**1 NAME & UPPER & LOWER LIMIT OF EACH PRODUCTION INTERVAL TO BE COMMINGLED**

FORMATION:	<u>FLEMING</u>	(PERFS):	<u>801</u> - <u>803</u>
FORMATION:	<u>WEIR</u>	(PERFS):	<u>881</u> - <u>883</u>
FORMATION:	<u>ROWE</u>	(PERFS):	<u>984</u> - <u>985</u>
FORMATION:	<u>NEUTRAL</u>	(PERFS):	<u>989</u> - <u>991</u>
FORMATION:	<u>RIVERTON</u>	(PERFS):	<u>1041</u> - <u>1045</u>
FORMATION:	<u>CATTLEMAN</u>	(PERFS):	<u>817</u> - <u>822</u>
FORMATION:	<u>CATTLEMAN</u>	(PERFS):	<u>734</u> - <u>836</u>
FORMATION:	<u>CATTLEMAN</u>	(PERFS):	<u>842</u> - <u>845</u>
FORMATION:	<u>CATTLEMAN</u>	(PERFS):	<u>870</u> - <u>874</u>
FORMATION:	<u>                    </u>	(PERFS):	<u>          </u> - <u>          </u>
FORMATION:	<u>                    </u>	(PERFS):	<u>          </u> - <u>          </u>
FORMATION:	<u>                    </u>	(PERFS):	<u>          </u> - <u>          </u>

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

FORMATION:	<u>FLEMING</u>	BOPD:	<u>0</u>	MCFPD:	<u>1.8</u>	BWPD:	<u>1</u>
FORMATION:	<u>WEIR</u>	BOPD:	<u>0</u>	MCFPD:	<u>1.8</u>	BWPD:	<u>1</u>
FORMATION:	<u>ROWE</u>	BOPD:	<u>0</u>	MCFPD:	<u>1.8</u>	BWPD:	<u>1</u>
FORMATION:	<u>NEUTRAL</u>	BOPD:	<u>0</u>	MCFPD:	<u>1.8</u>	BWPD:	<u>1</u>
FORMATION:	<u>RIVERTON</u>	BOPD:	<u>0</u>	MCFPD:	<u>1.8</u>	BWPD:	<u>1</u>
FORMATION:	<u>CATTLEMAN</u>	BOPD:	<u>0.75</u>	MCFPD:	<u>0</u>	BWPD:	<u>5</u>
FORMATION:	<u>CATTLEMAN</u>	BOPD:	<u>0.75</u>	MCFPD:	<u>0</u>	BWPD:	<u>5</u>
FORMATION:	<u>CATTLEMAN</u>	BOPD:	<u>0.75</u>	MCFPD:	<u>0</u>	BWPD:	<u>5</u>
FORMATION:	<u>CATTLEMAN</u>	BOPD:	<u>0.75</u>	MCFPD:	<u>0</u>	BWPD:	<u>5</u>
FORMATION:	<u>                    0</u>	BOPD:	<u>          </u>	MCFPD:	<u>          </u>	BWPD:	<u>          </u>
FORMATION:	<u>                    0</u>	BOPD:	<u>          </u>	MCFPD:	<u>          </u>	BWPD:	<u>          </u>
FORMATION:	<u>                    0</u>	BOPD:	<u>          </u>	MCFPD:	<u>          </u>	BWPD:	<u>          </u>

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 ACCOMPANY 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 1 consecutive time, the first publication thereof being made as aforesaid on the 10 day of October 2012, with subsequent publications being made on the following dates:

\_\_\_\_\_, 2012 \_\_\_\_\_, 2012

\_\_\_\_\_, 2012 \_\_\_\_\_, 2012

*Rhonda Howerter*

Subscribed and sworn to and before me this 10 day of October, 2012

*[Signature]*  
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

**SHANNA L. GUIOT**  
Notary Public - State of Kansas  
My Appt. Expires

**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

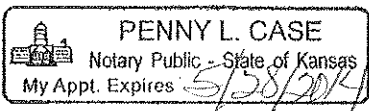
subsequent publications being made on the following dates:

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

*Mark Fletchall*

Subscribed and sworn to before me this

11th day of October, 2012



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

Printer's Fee : \$132.40

**LEGAL PUBLICATION**  
PUBLISHED IN THE WICHITA EAGLE  
OCTOBER 11, 2012 (3211683)  
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  
Commencing 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 whomsoever concerned.  
You, and each of you, are hereby notified  
that Postrock Midcontinent Production, LLC  
has filed an application to commence 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

**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-R18E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 25<sup>th</sup> of OCTOBER, 2012, 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

GARY E ENOS

Address (Attach additional sheets if necessary)

200 N GRANT ST, CLEARWATER, KS 67026

I further attest that notice of the filing of this application was published in the THE CHANUTE TRIBUNE, the official county publication of NEOSHO county. A copy of the affidavit of this publication is attached.

Signed this 25<sup>th</sup> day of OCTOBER, 2012

*[Handwritten Signature]*

Applicant or Duly Authorized Agent

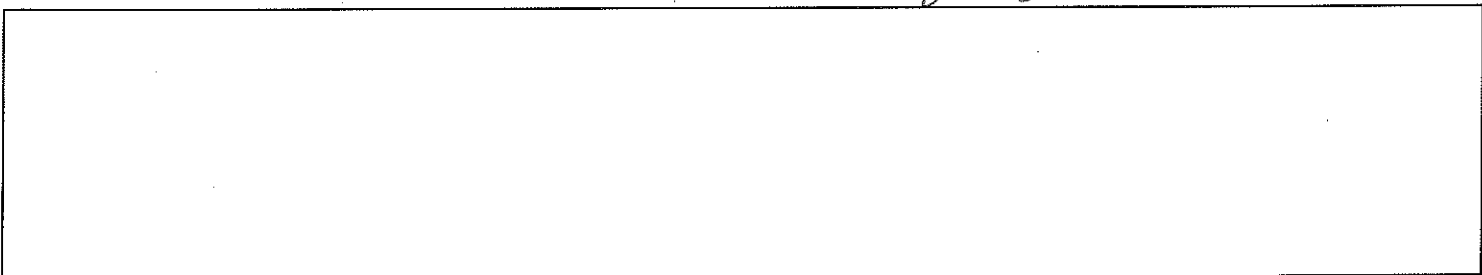
Subscribed and sworn to before me this 25<sup>th</sup> day of OCTOBER, 2012



*[Handwritten Signature: Jennifer R. Beal]*

Notary Public

My Commission Expires: July 20, 2014



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

[ ]

[ ]

Offset Operators, Unleased Mineral Owners and Landowners acreage

(Attach additional sheets if necessary)

Name:

Legal Description of Leasehold:

SEE ATTACHED


I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

*[Signature]*

Applicant or Duly Authorized Agent

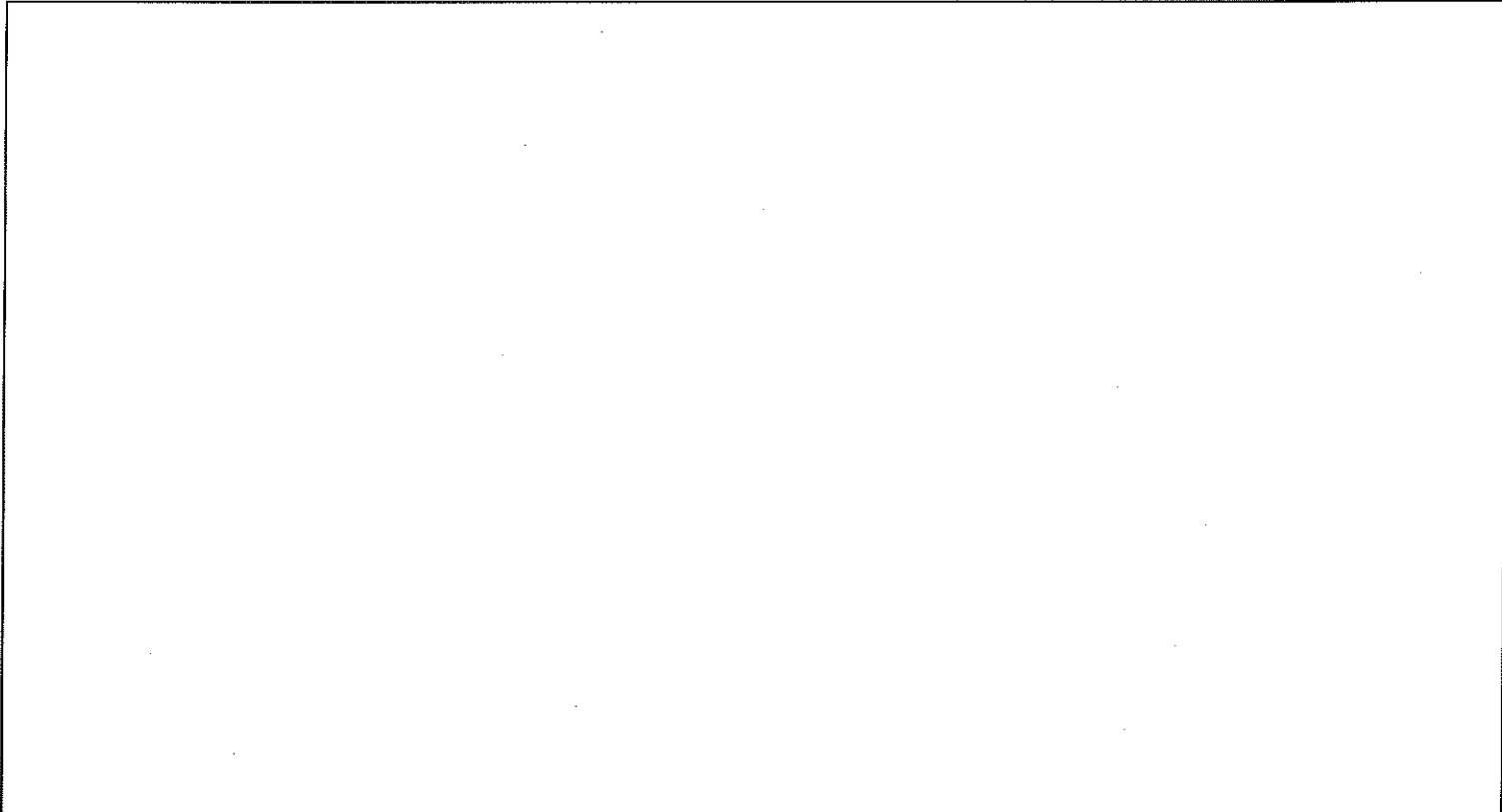
Subscribed and sworn before me this 25<sup>th</sup> day of OCTOBER, 2012



*Jennifer R. Beal*

Notary Public

My Commission Expires: July 20, 2016





TAYLOR, WAYNE L 22-3

22-28S-18E

tract in W2NW Gary E. Enos  
200 N Grant St  
Clearwater, KS 67026

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

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