

APR 1 8 2006

# KANSAS CORPORATION COMMISSION ORIGINAL Form ACC-1 OIL & GAS CONSERVATION DIVISION OIL & GAS CONSERVATION DIVISION Form Must Be Typed

CONSERVATION DIVISION WICHITA, KS

**WELL HISTORY - DESCRIPTION OF WELL & LEASE** 

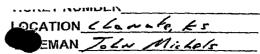
Operator: License # 33344	API No. 15133-26198-00-00
Name: Quest Cherokee, LLC	County: Neosho
Address: 211 W. 14th Street	seSec. 1 Twp. 29 S. R. 17 V East West
City/State/Zip: Chanute, KS 66720	1980 feet from S N (circle one) Line of Section
Purchaser: Bluestem Pipeline, LLC	660 feet from (E ) W (circle one) Line of Section
Operator Contact Person: Gary Laswell	Footages Calculated from Nearest Outside Section Corner:
Phone: (620 ) 431-9500	(circle one) NE (SE) NW SW
Contractor: Name: Barton T. Lorenz	Lease Name: Taylor, Wayne L. Well #: 1-1
License: 33286	Field Name: Cherokee Basin CBM
Wellsite Geologist: n/a	Producing Formation: Riverton
Designate Type of Completion:	Elevation: Ground: 975 Kelly Bushing: n/a
New Well Re-Entry Workover	Total Depth: 1112 Plug Back Total Depth: 1106
Oil SWD SIOW Temp, Abd.	Amount of Surface Pipe Set and Cemented at 21.5 Feet
✓ Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from 1119
Operator:	feet depth to Surface w/ 133 sx cmt.
Well Name:	ALTIF WHM 8-25-06
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan   (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride contentppm Fluid volumebbls
Plug BackPlug Back Total Depth	Dewatering method used
Commingled Docket No	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
10/22/04 10/25/04 11/12/04	Lease Name: License No.:
Spud Date or Recompletion Date  Date Reached TD Recompletion Date  Recompletion Date	Quarter SecTwpS. R East West County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workove information of side two of this form will be held confidential for a period of 1 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	
All requirements of the statutes, rules and regulations promulgated to regula 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: / Signa	KCC Office Use ONLY
Title: Head of Operations Date: 4/13/06	Letter of Confidentiality Received
Subscribed and sworn to before me this 13th day of	If Denied, Yes Date:
20.06	, Wireline Log Received
	Geologist Report Received
Notary Public: Jenny J. ammann	UIC Distribution
Date Commission Expires: July 30, 2009 Nota	ENNIFER R. AMMANN ITY Public - State of Kansas

Side Two

Operator Name: Que	est Cherokee, LL	.C	Lease	-:Name	Taylor, Wayn	e L.	V/ell #: _1.	·1	
Sec. 1 Twp. 29	9S. R. <u>17</u>	✓ East	County	Neos	ho		,/		
tested, time tool oper temperature, fluid rec	n and closed, flowin covery, and flow rate	and base of formations p g and shut-in pressures, s if gas to surface test, a final geological well site i	whether shi Jong with fi	ut-in pre	essure reached	static level, hydi	rosta,tic press	ures, botto	m hole
Drill Stem Tests Take		☐ Yes 📝 No		<b></b> ✓L	og Formati	on (Top), Depth	and Datum		Sample
Samples Sent to Geo	ological Survey	☐ Yes  ☑ No		Nam See	e attached		Top		Datum
Cores Taken		🗌 Yes 🗸 No							
Electric Log Run (Submit Copy)		✓ Yes 🗌 No					RECEIVE	D	•••
List All E. Logs Run:							XORF ORATION		M
Comp. Density						Į.	APR 182	1006	
Dual Induction Log Gamma Ray/Neutron Log						œ	NSEI (VATION I V/ICHITA, I		
		CASING Report all strings set-o	RECORD	_	ew Used	tion, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Welg	ht	Setting Depth	Type of Cement	# Sacks Used		and Percent
Surface	11"	8-5/8"	20#		21.5'	"A"	6		
Production	6-3/4"	4-1/2"	10.5#		1106'	"A"	133		
Purpose: Perforate Protect Casing	Depth Top Bottom	ADDITIONAL Type of Cement	CEMENTIN #Sacks		JEEZE RECORD		Percent Additiv	res	
Plug Back TD Plug Off Zone	PERFORM	DOLL DECORD DE LA PIUM							
Shots Per Foot		ION RECORD - Bridge Plug Footage of Each Interval Per			Acid, Fra (Ai	cture, Shot, Cemer mount and Kind of N	nt Sqt¦eeze He faten£ (Used)	cord	Depth
4	1048-1052				Acid job, 350	gal 15% acid,	KCL .25 ga	l, Biocide	1048-10
TUBING RECORD 2-3	Size 3/8"	Set At 1081.15'	Packer At	<del></del> ;	Liner Run	Yes 📝 No			
Date of First, Resumero	d Production, SWD or I	Enhr. Producing Met	_	Flowing	g <b>√</b> Pumpii	ng Gas L	lift 🗀 O	ther (Explain	··················)
Estimated Production Per 24 Hours	oil n/a	Bbls. Gas 55 mcf	Mcf	Wate		bls.	Gas-Cill Ratio	<u> </u>	Gravity
Disposition of Gas	METHOD OF C	COMPLETION			Production Inter	val			
Vented ✓ Sold (If vented, Sul	Used on Lease	☐ Open Hole ☐ Other (Speci	Y Perf.		oually Comp.	Commingled			<del></del>

CHANUTE, KS 66720 620-431-9500





# TREATMENT REPORT & FIELD TICKET

#### CEMENT

DATE	CUSTOMER#	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-12-2004		Taylor, Wayne L. # 1-1	1	295	176	No

FOREMAN	TIME	TIME	LESS	TRUCK	TRUCK	EMPLOYEE
OPERATOR	iN	OUT	LUNCH	#	HOURS	SIGNATURE
John. M	11:30	5:46	No	348	5	-XX
wes. 7	11:30	5:14	No	197	5	Wester Turns
Jimmy . H	11:30	512	No	103	5	1-27-
Tim . A	11:30	503	No	140	5	Volu agent
ROUNE, A	11:30	4:40	No	786	3	Rod

J.TYPE LONG STEING	HOLE SIZE 6 29	HOLE DEPTH ///~	CASING SIZE & WEIGHT 9 2 /0.5
CASING DEPTH 110 6	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT	SLURRY VOL		——————————————————————————————————————
DISPLACEMENT 17.5			
REMARKS: Cicalato	with Flosh	4º0 RON	Gol alord, Row
13 BBL 13,	· with 15 &	Sallons Sod	imm Silicate coment
antill Dre	RofueN, flush	ترسه عر حسه حر	plag with K.C.L.
water, sof fl	bat slie.		, ,
	+ to M.O.B. +	& Location 1	HL.
Very Nasty Mas	1dy Location al	1 chows pulle	d in account, and ont of
Cocation			

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE *	TOTAL
	# 348	Foreman Pickup		
	# 197	Cement Pump Truck	RECEIVED  AS CORPORATION CO	
<del></del>	7103	Bulk Truck		
1110	13sts	Gilsonite	APR 1 8 200	Ó
1107	1545	Flo-Seal	CONSERVATION DIVI	SION
1118	Zsks	Premiun Gel	WICHITA, KS	
1215A	1901	KCL		
1111B	159915	Sodium SIlicate		
1123	6,300 905	City Water /50 BBC		(
	#140	Transport		
	# 786	80 Vac		
<del></del>	W/out a Jditives	Cement 133 sts w/additions		
	wont additives			
<del></del> -				
			SALES TAX	
			ESTIMATED TOTAL	

THORIZTION\_\_\_\_\_\_TITLE\_\_\_\_

DATE

► BARTON T. LORENZ #33286 543-A 22000 Rd. Cherryvale, KS 67335 620-328-4433

#### **DRILLER LOG**

QUEST CHEROKEE, LLC

Wayne Taylor #1-1 -S1, T29, R17E Neosho County API # 15-133-26198-00-00

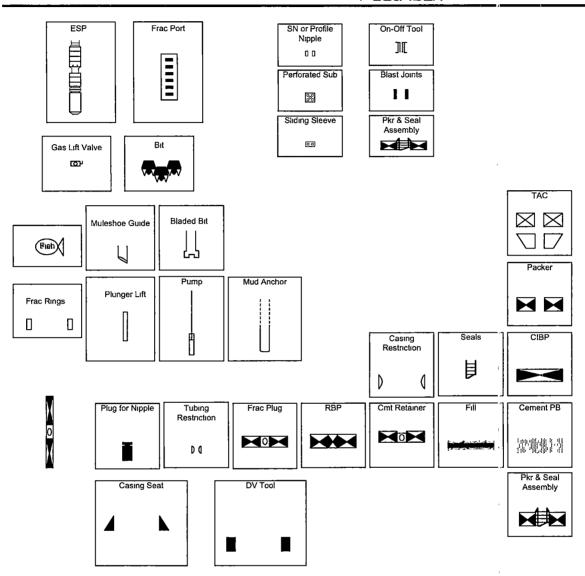
0-8	DIRT		10-22-04 Drilled 11" hole and	
8-40'	SAND		Set 21.5' of 8 5/8" Surface pipe	
40-91	SHALE		Set with 6 sacks of Portland Cert	ment
91-96	LIME			
96-107	SHALE		10-25-04 Started drilling 6 3/4"	ole
107-178	LIME		io 10 04 otarioa arminig o 0/4 iii	
178-182	SHALE		10-25-04 Finished drilling to T.	) 1112
182-187	LIME			
187-200	SANDY SHALE		WATER @ 511'	
200-220	SAND		WATER INCREASE @ 980'	
220-227	SHALE			RECEIVED KANSAS CORPORATION COMMISSION
227-238	LIME		485' 3" ON 1/2" ORIFICE	CORPORATION COMPANY
238-241	SHALE	62.7 MCF		ADD
241-253	LIME	77 MCF	561' 8" ON 1" ORIFICE	APR 1 8 2006
253-265	SHALE	141 MCF	586' 28" ON 1" ORIFICE	COMO
265-316	LIME	190 MCF		CONSERVATION DIVISION WICHITA, KS
316-370	SANDY SHALE	181 MCF	636' 17" ON 1 1/4" ORIFICE	Monta, KS
370-380	SHALE	, , , , , , ,	711' 15" ON 1 1/4" ORIFICE	
380-383	LIME		736' 17" ON 1 1/4" ORIFICE	
383-413	SHALE		761' 16" ON 1 1/4" ORIFICE	
413-425	LIME		786' 15" ON 1 1/4" ORIFICE	
425-431	SHALE	340 MCF		
431-438	SAND	822 MCF		
438-464	SHALE	1495 MCF		
464-491	SANDY SHALE		1012' UNABLE TO TEST DUE TO	WATER
491-501	LIME	1715 MCF	ľ	
501-502	COAL LESS THAN 6"			
502-503	SHALE		ı	
503-539	LIME PINK			
539-541	SHALE			
541-550	LIME			
550-552	BLACK SHALE			
552 <b>-</b> 561 .	SHALE			
561-571	SANDY SHALE		ļ	
571-592	SAND/ODOR		;	
592-614	LIME OSWEGO			
614-616	SHALE			
616-619	BLACK SHALE			
619-623	SHALE			
623-628	LIME		'	
628-630	SHALE			
630-631	COAL LESS THAN 8"		!	
631-633	SHALE			
633-635	LIME			
635-646	SAND			
646-659	SANDY SHALE		•	
659-676	SHALE			

# **POSTROCK**



LEGEND

#### PostRock



k,	BARTON T. LORENZ #33286
	543-A 22000 Rd.
	Cherryvale, KS 67335
	620-328-4433

# DRILLER LOG

### QUEST CHEROKEE, LLC

Wayne Taylor #1-1 S1, T29, R17E Neosho County API # 15-133-26198-00-00

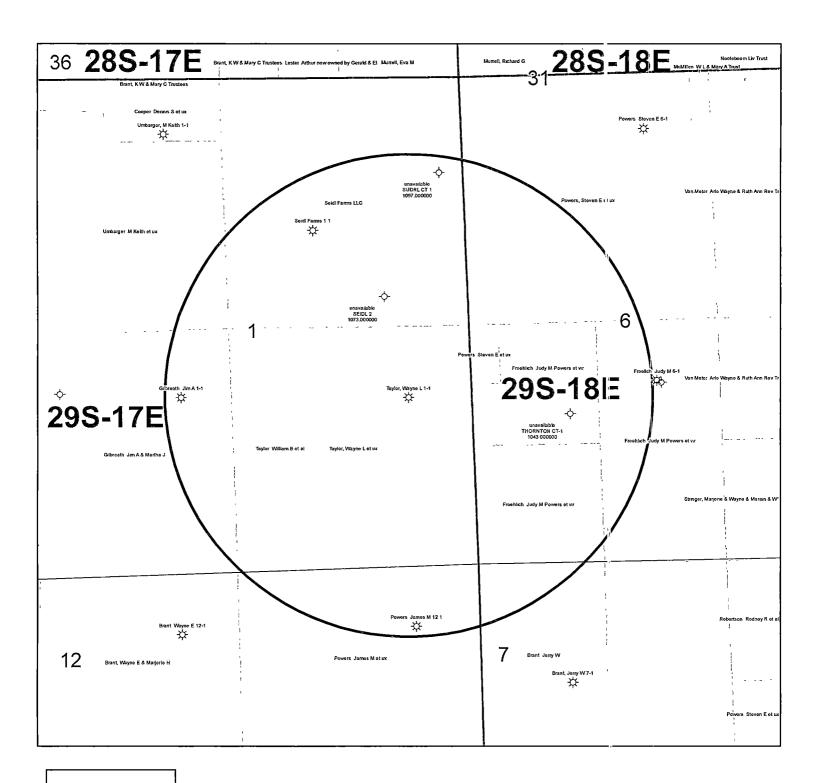
676-686	SANDY SHALE
686-701	SHALE
701-702	COAL
702-720	SHALE
720-722	LIME
722-724	SHALE
724-725	COAL LESS THAN 8"
725-738	SAND
738-759	SANDY SHALE
759-760	COAL
760-773	SAND
773-777	SHALE
777-798	SAND/ODOR
798-808	SANDY SHALE
808-818	SHALE
818-819	COAL LESS THAN 8"
819-826	SAND
826-836	SANDY SHALE
836-853	SAND
853-861	SANDY SHALE
861-873	LAMINATED SAND/ODOR
873-897	LAMINATED SAND
897-912	SAND
912-934	SANDY SHALE
934-960	SAND/ODOR
960-990	SAND
990-991	COAL
991-999	SHALE
999-1000	· · <del>-</del>
1000-1042	
1042-1044	
	SHALE
1057-1112	LIME MISSISSIPPI/ODOR

T.D. 1112'

RECEIVED KANSAS CORPORATION COMMISSION

APR 1 8 2006

CONSERVATION DIVISION WICHITA, KS



### **KGS STATUS**

- → DA/PA
- ⊕ EOR
- ☆ GAS
- △ INJ/SWD
- OIL
- ★ OIL/GAS
- o OTHER

Taylor, Wayne L 1-1 1-29S-17E 1" = 1,000'

#### BEFORE THE STATE CORPO-RATION 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 1-1 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, Bevier, Croweburg, Fleming, Rowe, Neutral, Riverton and Bartlesville producing formations at the Taylor, Wayne L 1-1, located in the NESWNESE S1-T29S-R17E, Approximately 1867 FSL & 687 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.



Total Publication Fees ..... \$ 73.2

#### **AFFIDAVIT**

STATE OF KANSAS

SS

County of Sedgwick

Mark Fletchall, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita. Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for \_1\_ issues, that the first publication of said notice was

made as aforesaid on the 17th of

#### August A.D. 2012, with

subsequent publications being made on the following dates:

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

Subscribed and sworn to before me this

17th day of August, 2012

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

Notary Public Sedgwick County, Kansas

Printer's Fee: \$139.60

#### LEGAL PUBLICATION

PUBLISHED IN THE WICHITA E AGLE
AUGUST 17, 2012 (320129)
BEFORE THE STATE CORPORATION
COMMISSION OF THE STATE OF IKANSAS
NOTICE OF FILING APPLICATION
RE: In the Matter of Postrock Millicontinent
Production, LLC Application to Comminating of Production in the Taylor,
Wayne 1 1-1 located in Neosh County,
Kansas

Production, LLC Application for Commission of Production in the Taylor, Wavine L 1-1 located in Neoth County, Kansas TO: All'Oil 8 Gas Producers, Unleast of Mineral Interest Owners, Landowners and all persons whorever concerned.

You, and each of you, are here! y notified that Postrock Midcontinent Production, LLC hass filled an application to commission that the Summit, Mulky, Beyler, Croweburg, Fleming, Rowe, Neutral, Riverion, and Barrilesville producing formations at the Taylor, Weyne, L 1-1-10cated in the NESWINESE S1-7295-R17E, Approximately 1867 FSL & 187 FEL. Neosto County, Kansas.

Any persons who object to on profest this application shall be required to file their objections or profest, with, the Corvervation Division of the State Corporation Commission of the State of Kansas, within ill.cen (15) days from the date of this publication. These profests shall be filed pursuani to Commission regulations and must state specific reasons why granting the application may cau've waste, violate correlative rights or politic it in antural resources of the State of Kansas.

All persons interested or concerned shell take notice of the toregoing and she I sovern themselves accordingly. All person and/or companies wishing to protest this a pilication are required to file a written protest with the Conservation Division of the Kansas (Villa and Gas Commission).

Lipon The Preceipt of any protest, the Commission will convene the placetion and professions. Will convene the placetion and professions will be protest this a pilication are required to file a written protest with the Conservation Division of the Kansas (VIII and Gas Commission).

Lipon The Preceipt of any protest, the Commission will convene the placetion of the protest of the protest with the Conservation Division of the Kansas (VIII and Produced to Inder an appearance either: through protest with the Commission will convene the producion of the Cansa (VIII Of Publication Aust. Accompany). ALL APPLICATIONS

#### TAYLOR, WAYNE L 1-1

1 NAME & UPPE	R & LOWER LIMIT OF EACH PRODU	CTION INTERVAL TO BI	E COMMINGI	LED			
FORMATION:	FLEMING	(PERFS):	763 -	765			
FORMATION:	ROWE	(PERFS):	1003 -	1005			
FORMATION:	NEUTRAL	(PERFS):	1008 -	1010		-	
FORMATION:	NEUTRAL	(PERFS):	1016 -	1018			
FORMATION:	RIVERTON	(PERFS):	1048 -	1052			
FORMATION:	BARTLESVILLE	(PERFS):	798 -	802			
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
	MOUNT OF FLUID PRODUCTION TO		M EACH INT				
FORMATION:	FLEMING	BOPD:	0	MCFPD:	1.6	BWPD:	4
FORMATION:	ROWE	BOPD:	0	MCFPD:	1.6	BWPD:	4
FORMATION:	NEUTRAL	BOPD:	0	MCFPD:	1.6	BWPD:	4
FORMATION:	NEUTRAL	BOPD:	0	MCFPD:	1.6	BWPD:	4
FORMATION:	RIVERTON	BOPD:	0	MCFPD:	1.6	BWPD:	4
FORMATION:	BARTLESVILLE	BOPD:	3	MCFPD:	0	BWPD:	20
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	
FORMATION:	0	BOPD:		MCFPD:		BWPD:	

	<u></u>		
Affidav	idavit of Notice Served	1	
Re:	Application for: APPLICATION FOR COMMINGLING OF PRODUC	TION OR FLUIDS ACO-4	
	Well Name TAYLOR, WAYNE L 1-1 Legal Local	ation: NESWNESE S1-T29S-R17E	
The unde	undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and	that on the day 18th of suptemb	oer
2012			
Alada: A	A serve of the effect of word has considered and of the continuous		
IVO(8: A	e' A copy of this affidevit must be served as a part of the application.	Attach - Williams I about a literapperson)	
DOST	·	Altach additional sheets if necessary)	DV 72402_5641
PUSI	OSTROCK MIDCONTINENT PRODUCTION ,LLC 210 PARK A	AVENUE, SUITE 2750, OKLAHOMA CITY, C	JK 73102-0041
		•	
		محوسسه	
I further a	her attest that notice of the filing of this application was published in the <u>The Cha</u>	nute Iribune, the officia	l county publication
of	Neosho county A copy of the	e affidavit of this publication is attactied	
Signed thi	ed this 18th day of September, 2012		
Oigilaa	10 0110	1 / X Manuel	
	Applicant or Duly Auth		
		3th day of September	, 2012
ij		1 D Rul	<del>-</del> -
Ş	JENNIFER R. BEAL MY COMMISSION EXPIRES Notary Public Notar	refer to ville	<del></del>
}[	7-20-2010 My Commission Expire	is: Quely 20, 2014	0

# TAYLOR, WAYNE L 1-1-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. POSTROCK MIDCONTINENT PRODUCTION, LLC POSTROCK HAS LEASED ALL ACREAGE IN THE 1/2 MILE RADIUS I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief. Applicant or Duly Authorized Agent Subscribed and sworn before me this JENNIFER R. BEAL MY COMMISSION EXPIRES My Commission Expires:

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

October 3, 2012

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

RE: Approved Commingling CO091209

Taylor, Wayne L. 1-1, Sec. 1-T29S-R17E, Neosho County

API No. 15-133-26198-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on September 18, 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 CO091209 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



Kansas Corporation Commission 10905/29 OIL & GAS CONSERVATION DIVISION

Form ACO-4 Form must be typed March 2009

#### Commingling ID # CO091209 APPLICATION FOR COMMINGLING OF PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR License # 33343	API No 15 - 15-133-26198-00-()0
Name PostRock Midcontinent Production LLC	Spot Description
Address 1 Oklahoma Tower	NE_SW_NE_SE Sec_1 Twp_29 S R_17  ☐East
Address 2 210 Park Ave, Ste 2750	1867 Feet from North / South Line of Section
City OKLAHOMA CITY State OK Zip 73102 +	
Contact Person CLARK EDWARDS	Neosho
Phone (620 ) 432-4200	Lease Name TAYLOR WAYNE L Well # 1-1
,	
1 Name and upper and lower limit of each production interval to	be commingled
Formation RIVERTON	(Perfs) 1048-1052
Formation SUMMIT	(Perfs) 620-624
Formation MULKY	(Perfs) 633-637
Formation BEVIER	(Perfs) 706-708
Formation CROWEBURG	(Perfs) 727-730
	, , -
2 Estimated amount of fluid production to be commingled from	0 16 1
Formation RIVERTON	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Formation SUMMIT	BOPD WICFPD BWPD
Formation MULKY	
Formation BEVIER	BOPD $\frac{0}{2}$ MCFPD $\frac{1.6}{4.0}$ BWPD $\frac{4}{4}$
Formation CROWEBURG	BOPD. 0 MCFPD 1.6 BWPD 4
Plat map showing the location of the subject well, all other we the subject well, and for each well the names and addresses  Signed certificate showing service of the application and affid	
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	t well
For Commingling of FLUIDS ONLY, include the following:	
7 Well construction diagram of subject well	
8 Any available water chemistry data demonstrating the compa	tibility 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	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 within 15 days of publication of the notice of application
15-Day Periods Ends 10/3/2012	
Approved By Rick Hestermann Deta 10/03/2012	

	Α	В 1	С	D 1		F	G	н .	<del></del>	-	T K 7
H	Produced Fluids #	В	1	2	E	4		Н		J	<del>                                     </del>
-	Parameters	Units	Input	Input	Input	Input	Input		Click he	re	Click
3	Select the brines	Select fluid	<u> </u>				Π.	Mixed brine:	to run SS	_	1
4	Sample ID	by checking						Cell H28 is			Click
5	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP calc. pH.			1
7	Operator Well Name	Row 3	PostRock Ward Feed	PostRock Ward Feed	PostRock Clinesmith	PostRock Chnesmith	PostRock Clinesmith	Cells H35-38 are used in			Click
8	Location		#34-1	#4-1	#5-4	#1	#2	mixed brines	Goal Seek	SSP	1
9	Field	-	СВМ	СВМ	Bartles	Bartles	Bartles	calculations.			Click
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)	
11	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index	values	SI/SR (Final-Initial)
	Mg <sup>2+</sup>	(mg/l)	1,096 00	872.00	1,200.00	953.00	858.00	995.91		lcite	<del>                                     </del>
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)			<del></del>			0.00		rite	1
	Ba <sup>2+</sup>	(mg/l)						0.00			i I
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Ha	alite	
17	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb <sup>2+</sup>	(mg/l)						0.00	Gyr	osum	1
19	CI <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> 2-	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemil	ıydrate	
21	F	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br <sup>-</sup>	(mg/l)						0.00	Anh	ydrite	
23	SiO2	(mg/l) S1O2						0.00	-3.47	-3 36	0.12
24	HCO3 Alkalinity**	(mg/l as HCO3)	190.00	234.00	259.00	268 00	254.00	241.03	Cele	estite	
25	CO3 Alkalinity	(mg/l as CO3)								L	
26	Carboxylic acids**	(mg/l)						0.00		Sulfide	
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0,06
	Borate	(mg/L) H3BO3			, <del></del>			0.00	Zinc S	Sulfide	
$\overline{}$	TDS (Measured)	(mg/l)						72781			<del>-</del>
30	Calc. Density (STP) CO <sub>2</sub> Gas Analysis	(g/ml) (%)	1.038 19.97	1.051 18.76	1.050 22.41	1.048 35.53	1.045 33.79	1.047 26.16	Calcium	i fluoride	
	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Ca	arbonate	<del></del>
1	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 ne	eded (mg/L)	1
$\Box$	GI	0-CO2%+Alk,							Calcite	NTMP	1 1
35	Choose one option to calculate SI?		0			۱ ،	0				
	Gas/day(thousand cf/day)	(Mcf/D)		V		·	<u>"</u>		0.00	0,00	-
	Oil/Day	(B/D)	0	0	1	1	i	4	Barite	ВНРМР	1 1
38	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0,00	
39 40	For mixed brines, enter va-	lues for temperat	tures and press	ures in Cells (H	40-H43) 70 0	41.0	49.0	(Enter H40-H43) 60,0	<u>F</u>	H 5 60	-
	Final T	(F)	66.0	71.0	70.0	41.0	49.0	89 0		CentiPoise)	1 ]
42	Initial P	(psia)	25,0	25.0	25.0	25,0	25.0	25.0	1.196	0.826	] }
	Final P	(psia)	25.0	25.0	25.0	25 0	25.0	120.0		ty (cal/ml/ <sup>0</sup> C)	
	Use TP on Calcite sheet?  API Oil Grav.	1-Yes,0-No API grav					ļ	30,00	0.955	0 959 eded (mg/L)	-  i
	Gas Sp.Grav.	Sp Grav				<del> </del>	<b> </b>	0.60		eded (mg/L) HDTMP	-
47	MeOH/Day	(B/D)	6					0	0.00	0.00	j
	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP	]
$\overline{}$	Conc Multipher  H <sup>+</sup> (Strong acid) <sup>†</sup>	(AT)			ļ		<del> </del>		0 00	0.00	그
$\overline{}$	OH (Strong acid) OH (Strong base)	(N) (N)				<del></del>	l				ł
	Quality Control Checks at					l	L				Ì
53	H₂S Gas	(%)									j
54	Total H2Saq (STP)	(mgH2S/l)									
	pH Calculated PCO2 Calculated	(pH) (%)					1				
	Alkalinity Caclulated	(%) (mg/l) as HCO3				1	1				
58	ΣCations=	(equiv /l)				· ·	1				
	ΣAnions= Calc TDS=	(equiv /l)				[		İ			ľ
	Caic 1DS= Inhibitor Selection	(mg/l) Input	Unit	#	Inhibitor	Unit Converte	(From metric	to English)			
	Protection Time	120	min	1	NTMP	From Unit	Value	To Unit	Value		
	Have ScaleSoftPitzer			2	ВНРМР	°C	80	°F	176		
64	pick inhibitor for you?		1-Yes,0-No	3	PAA	m <sup>3</sup>	100	ft³	3,531		
65	If No, inhibitor # is:	4	#	4	DTPMP	m <sup>3</sup>	100	bbl(42 US gal)	629		i
67	If you select Mixed, 1 <sup>st</sup> inhibitor # is:	1	#	5 6	PPCA SPA	MPa Bar	1,000 496	psia	145,074		
68	% of 1 <sup>st</sup> inhibitor 1s:	50	%	7	HEDP	Torr	496 10,000	psia psia	7,194 193		ľ
69	2 <sup>nd</sup> inhibitor # is:	2	70 #	8	HDTMP	Gal	10,000	bbl(42 US gal)	238		
70	Display act. coefs?	ő	1-Yes,0-No	9	Average	Liters	10,000	bbl(42 US gal)	63		
71				10	Mixed	ŀ					l

### **Saturation Index Calculations**

Champion Technologies, Inc. (Based on the Tomson-Oddo Model)

Brine 1: Ward Feed Yard 34-1 Brine 2: Ward Feed Yard 4-1 Brine 3: Clinesmith 5-4 Brine 4: Clinesmith 1 Brine 5: Clinesmith 2

	_					
	Ratio					
	20%	20%	20%	20%	20	
Component (mg/L)	Brine 1	Brine 2	Brine 3	Brine 4	Brine 5	Mixed Brine
Calcium	1836	2452	2044	1920	1948	1952
Magnesium	1096	872	1200	953	858	865
Barium	0	0	0	0	0	0
Strontium	0	0	0	0	0	0
Bicarbonate	190	234	259	268	254	253
Sulfate	1	1	8	1	1	1
Chloride	36299	48965	47874	45632	43147	43206
CO <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
n-Tn						= <del></del>
PTB	11/A	A1/A	NI/A	I NI/A	,	I N/A
Calcite	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	Ñ/A	N/A	N/A	N/A

#### **POSTROCK**



### **Current Completion**

SPUD DATE: 10/22/2004

COMP DATE: 11/12/2004

API: 15-133- 26198-00-00

WELL

: Taylor, Wayne L 1-1

**FIELD** 

: Cherokee Basin

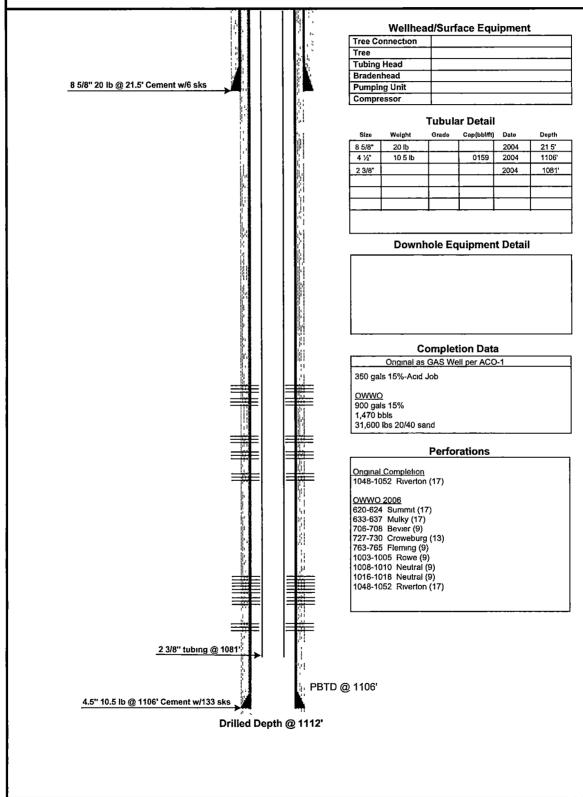
STATE COUNTY

: Kansas

: Neosho

**ELEVATION: 975'** 

**LOCATION: 1-29S-17E (NE,SE)** 



PREPARED E	Y: POSTROCK		
APPROVED E	Y:		