

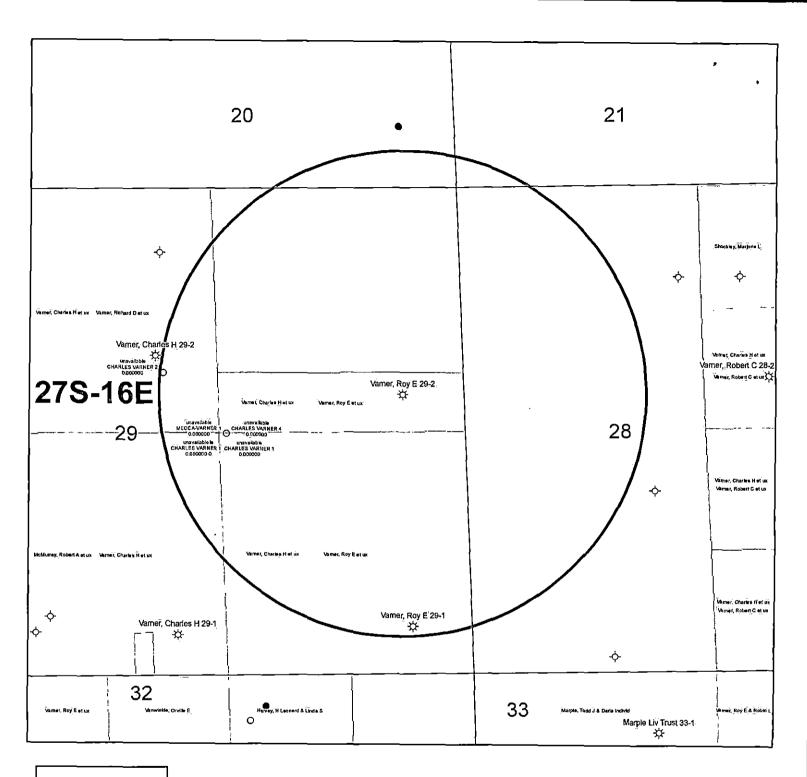
KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1086607

Form ACO-4 Form must be typed March 2009

APPLICATION FOR COMMINGLING OF Commingling ID # CO081214 PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

Name: PostRock Midcontinent Production LLC Address: 1. Oklahoma Tower NESN SENE Sec. 29 Twp. 27 S. R. 16	OPERATOR: License # 33343	API No. 1515-205-26742-00-00
Address 1: Oklahoma Tower Address 2: 210 Park Ave, Ste 2750 2238	Name: PostRock Midcontinent Production LLC	
Address 2: 210 Park Ave, Ste 2750 City: OKLAHOMA CITY State, CK Zip: 73102 + 664 Feet from	Oklahama Tawar	NE OF NE
City. Childhoma City State, OK 2ip, 73102 + 664 Feet from 1 East /	Address 2: 210 Park Ave, Ste 2750	
County: Wilson County: Wilson Coun		
Phone: (620) 432-4200 Lease Name: VARNER ROY E Weil #: 29-2 1. Name and upper and lower limit of each production interval to be commingled: Formation: WEIR Formation: FLEMING Formation: FLEMING Formation: FLEMING Formation: BEVIER Formation: MULKY Formation: WEIR Formation: BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: CROWEBURG Formation: CROWEBURG Formation: BEVIER BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: BEVIER BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MILKY BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 FOR		5 8 4 1
1. Name and upper and lower limit of each production interval to be commingled: Formation: WEIR Formation: FLEMING Formation: FLEMING Formation: BEVIER Formation: MULKY Formation: MULKY 2. Estimated amount of fluid production to be commingled from each interval: Formation: WEIR Formation: WEIR Formation: WEIR Formation: WEIR Formation: WEIR Formation: BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: CROWEBURG Formation: CROWEBURG Formation: BEVIER Formation: BEVIER Formation: BEVIER Formation: BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY 2. Suppose the subject well and for each well the names and addresses of the lesses and all wells on offsetting lesses within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lesses of record or operator. 2. A. Signed certificate showing service of the application and sliftdavit of publication as required in KAR. 82-3-135a. For Commingling of PRODUCTION ONLY, include the following: 2. Subject well, and here so well the names and addresses of the lesses of record or operator. 3. Well construction diagram of subject well. 4. Signed certificate showing service of the application and sliftdavit of publication as required in KAR. 82-3-135a. For Commingling of PRODUCTION ONLY, include the following: 3. Well construction diagram of subject well. 4. Signed certificate showing service of the application and sliftdavit of publication as required in KAR. 82-3-135a. For Commingling of FLUIDS ONLY, include the following: 3. Well construction diagram of subject well. 4. Subject well, and hereby certify that to the best of my continuition, 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. 5. Well construction diagram of subject well. 5. Well construction this application or knowledge, which is inconsistent with the information supplied in this application. 6. Well construction the subject well. 6. Well cons		•
Formation: FLEMING Formation: CROWEBURG Formation: BEVIER Formation: BULKY Perfs : 965-967 993-932 993-932 993-932 913-915 833-837 Perfs : 913-915 833-837 Perfs : 929-932 913-915 833-837 Perfs : 913-915 833-837 Perfs : 929-932 913-915 833-837 Perfs : 913-915 80PD: 0 MCPPD: 5 BWPD: 6.67	,	
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Formation: BEVIER Formation: MULKY 2. Estimated amount of fluid production to be commingled from each interval: Formation: WEIR Formation: FLEMING Formation: FLEMIN	Formation: FLEMING	(Perfs): 965-967
Formation: BEVIER Formation: MULKY 2. Estimated amount of fluid production to be commingled from each interval: Formation: WEIR Formation: FLEMING Formation: FLEMIN	Formation: CROWEBURG	(Perfs): 929-932
Formation: MULKY (Perfs): 833-837 2. Estimated amount of fluid production to be commingled from each interval: Formation: WEIR Formation: ELEMING BOPD: 0 MCFPD: 5 BWPD: 6.67 6.67 6.67 Formation: BEVIER BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: BEVIER BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 80PD:	Formation: BEVIER	012 015
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Formation: CROWEBURG Formation: BEVIER BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 BWPD: 6.67 BOPD: 0 MCFPD: 5 BWPD: 6.67 BW		BUPD: TOUCHD: BYPD:
Formation: BEVIER Formation: MULKY BOPD: 0 MCFPD: .5 BWPD: 6.67 BWPD: 5 BWPD: 6.67 BWPD	Formation: FLEMING	BOFD WICFFD BYYFD
Formation: BEVIER Formation: MULKY BOPD: 0 MCFPD: 5 BWPD: 6.67 BWPD: 5 BWPD: 6.67 BWPD: 6.667 BWPD: 6.67 BWPD: 6.667 BWPD: 6.67 BWPD: 6.667 BWPD: 6.666 BWPD: 6.67 BWPD: 6.666 BWPD: 6.667 BWPD:		BOFD, NICFED, BVVFD,
Formation: MULKY BOPD: 0 MCFPD: .5 BWPD: 6.67 WHOTE State 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. FCC Office Use Only Denied Approved 15-Day Periods Ends: 8/29/2012	Formation: BEVIER	BOPD: 0 MCFPD: .5 BWPD: 6.67
 ✓ 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. ✓ 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. FCC Office Use Only □ Denied Approved □ Approved □ Submitted Electronically □ 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 whim 15 days of publication of the notice of application. 	NALII KV	BOPD: 0 MCFPD: .5 BWPD: 6.67
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□ Denied	current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which	Submitted Electronically
□ Denied	KCC Office Use Only	Protests may be filed by any party having a valid interest in the application. Protects must be
15-Day Periods Ends: <u>8/29/2012</u>	1	in writing and comply with K.A.R. 82-3-135b and must be filed wihin 15 days of publication of
		то ноше и аррпеацоп.



KGS STATUS

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

Varner, Roy E 29-2 29-27S-16E 1" = 1,000'

KANSAS CORPORATION COMMISSION ORIGINAL OIL & GAS CONSERVATION DIVISION

Form ACO-1 September 1999 m Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License #_33344	API No. 15 - 205-26742 - nn - 00
Name: Quest Cherokee, LLC	County: Wilson
Address: 211 W. 14th Street	s/2 _ se _ ne Sec. 29 Twp. 27 S. R. 16 7 East West
City/State/Zip: Chanute, KS 66720	2310 feet from S (N)(circle one) Line of Section
Purchaser: Bluestem Pipeline, LLC	660 feet from (E) W (circle one) Line of Section
Operator Contact Person: Jennifer R. Ammann	Footages Calculated from Nearest Outside Section Corner:
Phone: (620) 431-9500	(circle one) NE SE NW SW
Contractor: Name: L S Well Service, LLC	Lease Name: Vamer, Roy E. Well #: 29-2
License: 33374	Field Name: Cherokee Basin CBM
Wellsite Geologist: Ken Recoy	Producing Formation: Multiple
Designate Type of Completion:	Elevation: Ground: 970 Kelly Bushing: n/a
✓ New Well Re-Entry Workover	Total Depth: 1313 Plug Back Total Depth: 1304.47
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 22 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐Yes ✓ No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	1304 47
Operator:	feet depth to surface w/ 152 sx cmt.
Well Name;	Alt2-Dig-12/4/08
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 content ppm Fluid volume bbls
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:
6/14/06 6/15/06 6/20/06	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workow Information of side two of this form will be held confidential for a period of	n the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, ser or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-3 and geologist well report shall be attached with this form. ALL CEMENTING S. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulation are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements
Signature: Quantity B. Amman	KCC Office Use ONLY
Title: New Well Development Coordinator Date: 10/11/06	Letter of Confidentiality Received
Subscribed and sworn to before me this 1th day of 00thber	If Denied, Yes Date:
20_06.	Wireline Log ReceivenSAS CORPORATION COMMISSIO
	Geologist Report Received
Notary Put	A KLAUMAN CONSERVATION DIVISION DIIC-State of Kansas WICHITA KS
My Appt. Expires	Q-4-5019 ,

Operator Name: Que	st Cherokee, LL	C	Lease	Name:	Vamer, Roy I	<u>. </u>	Well #: _29-2	2	•
Sec. 29 Twp. 27				: Wilso				 _	
INSTRUCTIONS: She tested, time tool open temperature, fluid reco Electric Wireline Logs	and closed, flowing overy, and flow rate	g and shut-in pressure s if gas to surface test	s, whether sh , along with fi	iut-in pre	essure reached	static level, hydr	ostatic pressure	es, bottom ho	le
Drill Stem Tests Taken (Attach Additional S		∐ Yes [∕ No		ØL.	og Formati	on (Top), Depth	and Datum	Samp	ole
Samples Sent to Geol	ogical Survey	☐ Yes 🗹 No		Nam See	e attached		Тор	Datu	n
Cores Taken		☐ Yes 🗸 No							
Electric Log Run (Submit Copy)		☑ Yes ☐ No							
List Ali E. Logs Run;									
Gamma Ray No Dual Induction I Compensated I	Log	on Log							
		CASIN Report all strings so	IG RECORD	Na	_	ion etc			•
Purpose of String	Size Hole Drilled	Size Casing	Well	ght	Setting Depth	Type of Cement	# Sacks Used	Type and P	
Surface	11	Set (In O.D.) 8-5/8"	20	FL	22	"A"	_j 5	Additiv	<u> </u>
Production	6-3/4	4-1/2	10.5#		1304.42	"A"	160	1	
		i i	i					;	
		ADDITION	AL CEMENTII	NG / SQL	JEEZE RECORE				
Purpose: Perforate Protect Casing Piug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks	Used		Type and	Percent Additives		
Shots Per Foot		ON RECORD - Bridge F				cture, Shot, Cemer			Depth
4		967/929-932/913-9			- ·	s Zikal wite, (Silbhs witer	<u> </u>		
i			· · · · · · · · · · · · · · · · · · ·					929-8	32/913-91
4	833-837/824-82	8			400gai 15%HCLasi 59 bh	s 296kmi water, 600kbis water	e/2% KCL_Blocide, 1380 0	35 2040 cmd 833-8:	37/824-82
							<u>. </u>		
TUBING RECORD	Size	Set At	Packer A	Lt .	Liner Run			 :	
2-3	/8"	1082.62	n/a		[Yes 📝 No	<u> </u>	·	
Date of First, Resumerd 9/12/06	Production, SWD or E	inhr. Producing N	_] Flowin	g 📝 Pumpi	ng Gas L	ift Othe	et (Explain)	
Estimated Production Per 24 Hours	n/a	Bbis. Gas 7.4mcf	Mcf	Wate 31.11		bls.	Gas-Oil Ratio	Gr	ravity
Disposition of Gas	METHOD OF C				Production Inter	val	<u> </u>		
Vented Sold	Used on Lease	Open Ho		. [] ·	Dually Comp.	Commingled			

Drill Log

Quest Cherokee, LLC

Roy Varner #29-2 S29, T27,R16 Wilson Co, KS API#205-26742-0000

•	
0-3	DIRT RECEIVED
3-45'	LIME KANSAS CORPORATION COMMISSION
45-165	
165-185	LIME OCT 1 2 2006
185-228	SHALE CONSERVATION PROCESS
228-270	SHALE CONSERVATION DIVISION LIME WICHITA, KS
270-283	SHALE
283-305	SAND
305-306	COAL
306-320	SAND ·
320-333	SANDY SHALE
333-338	LIME
338-360	SANDY SHALE
360-440	LIME
440-444	BLACK SHALE
444-453	LIME
453-459	SANDY SHALE
459-480	LIME
480-495	SAND
495-526	LIME
526-616	SANDY SHALE
616-626	LIME
626-646	SANDY SHALE
646-661	LIME
661-686	SANDY SHALE
686-696	SAND
696-697	COAL
697-743	SANDY SHALE
743-745	LIME
745-746	COAL
746-750	SHALE
750-776	LIME PAWNEE
776-779 779-794	BLACK SHALE SANDY SHALE
794-819	LIME OSWEGO
819-824	SHALE
824-830	LILME
830-832	SHALE
832-833	COAL
833-836	SANDY SHALE
836-851	SAND
851-857	SANDY SHALE
857-862	SAND ODOR OIL
862-909	SAND
909-910	COAL
910-923	SANDY SHALE
923-926	LIME

6-14-06 Drilled 11" hole and set 22' of 8 5/8" surface casing Set with 5 sacks Portland cement

6-15-06 Started drilling 6 3/4" hole

6-15-06 Finished drilling to T.D. 1313'

WATER @ 511'

511' SLIGHT BLOW
711' 3" ON 1/2" ORIFICE
761' 7" ON 1/2" ORIFICE
786 24" ON 1/2" ORIFICE
825' 80" ON 1/2" ORIFICE
836' 26" ON 1" ORIFICE
912' 26" ON 1" ORIFICE
937' 26" ON 1" ORIFICE
962' 26" ON 1" ORIFICE
1037' 33" ON 1" ORIFICE
1062' 27" ON 1" ORIFICE
1087' 15" ON 1" ORIFICE
1212' 15" ON 1" ORIFICE
1313' 17" ON 1" ORIFICE

L S Well Service, LLC #33374 543A 22000 Road Cherryvale, Kahsas 67335 620-328-4433 Drill Log

Quest Cherokee, LLC

Roy Varner #29-2 S29, T27,R16 Wilson Co, KS API#205-26742-0000

926-927 COAL 927-960 SANDY SHALE 960-961 COAL 961-1017 **SANDY SHALE** 1017-1027 SAND 1027-1034 SANDY SHALE 1034-1035 COAL 1035-1042 SANDY SHALE 1042-1043 COAL 1043-1050 SANDY SHALE 1050-1066 SAND 1066-1070 SHALE 1070-1072 COAL 1072-1187 SAND 1187-1201 SANDY SHALE 1201-1203 COAL

T.D. 1313'

1203-1313 LIME MISSISSIPPI



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

FOREMAN Crass Coode

TREATMENT REPORT & FIELD TICKET CEMENT

DATE		WELL	ELL NAME & NUMBER			SECTION	TOWNSHIP	RANG	SE COUNTY
June = 20 0006	Vornerio	204 F 3			29	ر چ	16	wilson	
FOREMAN / OPERATOR	TIME	TIME		LESS UNCH	TRUCK #	TRAILER #	TRUC HOUR		EMPLOYEE SIGNATURE
Crain P.	Preval! 1:15 5:10		1	V0	9021127		4	(hang!
Time A		4:30			903797		5.2	5	Fridye.
Duciel A		41:15			903206		3		7/
Toe B		6:30			902139	985722	5.2	5	1 ac Blanc
Leon il.		600			93/4/5		4.7	5	1
	<u> </u>								
JOB TYPE / hugtles				_	OLE DEPTH 13/			/EIGHT _	4172.10.5
CASING DEPTH 13							HER		
SLURRY WEIGHT / (7									
DISPLACEMENT 20	<u> 多り</u> DISPLA	ACEMENT PS		M	IIX PSI	RA	TE <u>- 4/- 0 - &</u>	pr-	
REMARKS:	•								
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Rom 1 soil of and pumper	1 50000	start !	11 6	orial	Mue and	160 -00	165 EP C	omin	<u>k </u>
not du la c	4 Post FI	<u>Liked y</u>) <u>(1</u>	<u>ניק ס</u>	aped win	er plug to	boottom		<u>/</u>
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					<u> </u>				
									<u> </u>
:	12041	12 1	74%	le Cas	i d g				·
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92.210	£			a trac					
931700 .	<u> </u>	•		a tre.					 i
ACCOUNT CODE	QUANTITY or L	STINL	•		DESCRIPTION OF SE	RVICES OR PROD	UCT		TOTAL AMOUNT
707427	4	k. Fo	reman l	Pickup	<u> </u>				
703255	355	k- C	ment P	ump Truck					
903204			ilk Truck						
1104	152		rtland C						
1124		50	/5 0 PO	Z-Blond-Ge	ment Police 3	··			
1126	<u> </u>		veBh	end Gemen	1020 perpense	1, /2			
11,10	<u>ما / ب</u>		Isonite						
1107			o-Seal						
1118			emium (Gei				$-\!\!-\!\!\!-\!\!\!\!+$	· · · · · · · · · · · · · · · · · · ·
1215A			CL ofium Si	ilicato	1 :			 +	
1111B		1 -			elember de	· ·	<u> </u>	$-\!\!\!\!-\!\!\!\!\!+$	
1123	7205		y Water					\longrightarrow	
305/57	5.2	5 k/ In	ansport						
982152 331215		<u> </u>	vac	irauer	<u> </u>		 		
Revin 4513		71. 00	_						
;	1	1	1307	ichse					

										, , –	, , ,
Н	A Produced Fluids #	В	<u>C</u>	- D		F4	<u>G</u> 5	<u>H</u>	<u> </u>	<u> </u>	<u> K</u>
1/2	Parameters	Units	Input	Input	Input	Input	Input		Click he	ro	Click
-	Select the brines	Select fluid	(7	[7]	רין	(7)		Mixed brine:	to run S		
4	Sample ID	by checking						Cell H28 is	(0.12.11.01	5.	Click
	Date	the box(es),	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012	STP cale, pH.			
6	Operator	Row 3	PostRock	PostRock	PostRock	PostRock	PostRock	Cells H35-38			Click
$\overline{}$	Well Name		Ward Feed	Ward Feed	Clinesmith	Clinesmith	Clinesmith	are used in	Goal Seek	SSP	
8 9	Location Field		#34-1 CBM	#4-1 CBM	#5-4 Bartles	#1 Bartles	#2 Bartles	mixed brines calculations,			Click
	Na ⁺	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20	Initial(BH)	Final(WH)	┰┈┈┤
HŤ	K* (if not known =0)		17,433,00	27,381.00	20,554.00	23089,00	24220.00		<u>`</u>	' ' '	SI/SR
	Mg ²⁺	(mg/l)						1——	Saturation Index		(Final-Initial)
-	Mg Ca ²⁺	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91		lcite	-l
	Sr ² *	(mg/l)	1,836.00	2,452.00	2,044.00	1920.00	1948.00	2040,23	-0.73	-0.60	0.13
$\overline{}$	Ba ²⁺	(mg/l)					i	0.00	В	arite T	· } {
		(mg/l)						0.00		·	+
-	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21		alite	↓
∺	Zn ²⁺	(mg/l)						0.00	-1.77	-1.80	-0.03
_	Pb ²⁺	(mg/l)					!	0.00		psum	<u> </u>
19	Cr	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147,00	44388.44	-3.19	-3.18	0.00
$\overline{}$	SO ₄ 2.	(mg/l)	1.00	1.00	8.00	1,00	1.00	2.40	Hemi	hydrate	
21	F	(mg/l)					<u> </u>	0.00	-3.96	-3.90	0.06
22	Br*	(mg/l)				L	<u> </u>	0.00	Anh	ydrite	
23	SiO2	(mg/l) SiO2						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	Cel	estite	
25	CO3 Alkalinity	(mg/l as CO3)					I	i		<u> </u>	
26	Carboxylic acids**	(mg/l)						0.00	Jron .	Sulfide	
27	Ammonia	(mg/L) NH3						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H3BO3						0.00	Zine	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	Calciun	n fluoride	T
31	CO ₂ Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16		l	
	H ₂ S Gas Analysis***	(%)	0.0289	0,0292	0.0296	0.0306	0.0151	0.0269	Iron C	arbonate	J
-	Total H2Saq	(mgH2S/I)	1.00	1.00	1.00	1.00	0.50	0.90	-0,74	-0.51	0.23
34	pH, measured (STP)	pH 0-CO2%+Alk,	5.67	5.76	5.72	5.54	5.55	5.63		eeded (mg/L)	-l l
	Choose one option]		Calcite	NTMP	1
35	to calculate S17		ol	o	0	o	1 0		ľ	Í	1 1
36	Gas/day(thousand cf/day)	(Mcf/D)			,			0	0.00	0.00	1
37	Qil/Day	(B/D)	0	0	1		1	4	Barite	ВНРМР	1
	Water/Day	(B/D)	100	100	100	100	100	500	0.00	0,00]
	For mixed brines, enter val		ures and press	ures in Cells (H 71.0	(40-H43) 70.0	41.0	49.0	(Enter H40-H43) 60.0	5.69	H 5.60	-
_	Final T	(F) (F)	66,0	71.0	70.0	41.0	49.0	89.0		CentiPoise)	-l I
	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		lty (cal/ml/°C)	1 ∣
44	Use TP on Calcite sheet?	I-Yes:0-No							0.955	0.959	1
	API Oil Grav.	API grav.						30.00		eeded (mg/L)]
	Gas Sp.Grav.	Sp.Grav.			_			0.60		HDTMP	4
	MeOH/Day MEG/Day	(B/D) (B/D)	0		-			0		0.00 HDTMP	-{ !
	Conc. Multiplier	(0:0)							0.00	0.00	-
_	H' (Strong acid)	(N)						···		·	-
	OH (Strong base) †	(N)					i				
	Quality Control Checks at								}		
	H ₂ S Gas	(%)									
	Total H2Saq (STP)	(mgH2S/l)									ŀ
	pH Calculated PCO2 Calculated	(pH)			,		1		1		
	Alkalinity Cactulated	(%) (mg/l) as HCO3			I				J		
	ΣCations=	(equiv./l)			ı						
59	ΣAnions=	(cquiv./l)									
	Calc TDS=	(mg/l)					í <u> </u>				ľ
	Inhibitor Selection Protection Time	Input 120	Unit	#	Inhibitor NTMP		r (From metric Value	to English) To Unit	Males -		
	Protection Time Have ScaleSoftPitzer	120	min	1 2	BHPMP	From Unit °C	Value 80	To Unit °F	Value 176		
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m ³	100	ft ³			
			1-1 CS;U-NO			m° m³			3,531		
65 66	If No, inhibitor # is: If you select Mixed,	4	Ħ	4 5	DTPMP PPCA	m° MPa	100 1,000	bbl(42 US gal) psia	629 145,074		ŀ
67	n you select prixen, 1 st inhibitor # is:	1	#	6	SPA	Bar	496	psia	7,194		ļ
68	% of 1 ^{et} inhibitor is:	50	%	7	HEDP	Тогт	10,000	psia psia	193		
69	2 nd Inhibitor # is:	2	#	8	HDTMP	Gal	10,000	bbl(42 US gal)	238		
	Display act. coefs?	0	1-Yes;0-No	9	Average	Liters	10,000	bbl(42 US gal)	63		į
71			""	10	Mixed		2000	· · · · · · · · · · · · · · · · · · ·]		
			•	-							•

Saturation Index Calculations

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

Brine 1: Ward Feed Yard 34-1 Brine 2: Ward Feed Yard 4-1

Brine 3: Clinesmith 5-4
Brine 4: Clinesmith 1
Brine 5: Clinesmith 2

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

Saturation Index

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

PTB

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



Wellbore Schematic

WELL: Varner, Roy E 29-2

SSI: 615360

•	SSI: 615360 API: 15-205-26742-00-00 LOCATION: SE NE Secc. 29-275-16E COUNTY: Wilson STATE: Kansas	OC - Surface
Casing	8.625" @ 22' 4.5" 10.5# J-55, 4.05" ID w/ 0.0159 bbl/ft capacity @ 1305'	
Perforations	Original Perfs: 7/5/2006 - Weir 1074-1077 (13) - Fleming 965-967 (9) - Croweburg 929-932 (13) - Bevier 913-915 (9) - Mulky 833-837 (17) - Summit 824-828 (17)	8.625" @ 22'
Completions	Spud Date: 6/14/2006 Completion date: 7/5/2006 Weir/Flem/Crowe/Bevier: - 16000# 20/40 - 400 gal 15% - 850 bbls - 14 bpm Mulky/Summit: - 13800# 20/40 - 400 gal 15% - 600 bbls - 14bpm	" 10.5# @ 1305' 61 sks cement

VARNER, ROY E 29-2

FORMATION:	SUMMIT	(PERFS):	824 -	- 828			
FORMATION:	SQUIRREL	(PERFS):	866 -	872			
FORMATION:	•						
FORMATION:		(PERFS):					
FORMATION:		(PERFS):					
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	SUMMIT	UCTION TO BE COMMINGLED FROM BOPD:		MCFPD:	0.5	BWPD:	6.67
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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 19th of

July 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.

Wark Fletchall

Subscribed and sworn to before me this

19th day of July, 2012

PENNY L. CASE Notary Public -- State of My Appl. Expires

Notary Public Sedgwick County, Kansas

Printer's Fee: \$132.40

LEGAL PUBLICATION

EGAL PUBLICATION

PUBLISHEDAN THE WICHITA EAGLE

JULY 19; 2072 (19978)

BEFORE THE STATE CORPORATION
COMMISSION OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION
RE In the Malier, of Postrack Midcontinent
Production; LLC Application for
Commingling, of Production in the
Warner, Ray E 29:2 located in Witson
County Kansas,
To: All Oli & Gas Producers, Unleased Mineral
Interest Cowners, Lanctowners, and oil
persons whonever concerned.
You, and each of you, are intereby notified
that Postrack Midcontinent Production, LLC
has filed an application to commingto the Weir,
Fleming, Crowedurg, Baylor, Mulky, Summit
and Squirret producing formations at the
Varmer, Ray E 29-2; located in the 52 SE NE,
S27-1725; R162; Approximately 2238 FNL &
664 FELS Millson County, Kansas

Any, persons who object to ar protest
this application as a profest; with the Conservation
Division of the State Corporation Commission
of the State of Kansas within titleen (19)
days frem like date of this publication. These
profests in the State Corporation Commission
of the State of Kansas within titleen (19)
days frem like date of this publication. These
profests in the State Corporation Commission
why grantifully the opplication may cause waste,
Violale correlative rights or policy the natural
resources the State of Kansas

All persons interested or concerned shell
lake notice of the forupoling, and shall power
themselves accordingly. All persons and/or
companies wishine to profest this application
are required in the a writing profest with the
Conservation Division of the Kansas, Ol and
Gas Corporations.

— Upon the "receipt of any brotast, the
Commission will convene" a hearing and
profesions will be extracted to senier an
appearance eithers through, proper legal
counset of as infollowables, espearing on their
Own behalf.

Postrack Midcontinent Production, LLC
210 Park Avenue, Suffez 250?
Qualonna Carlor Alexandro.

ACOPY OF THE AFFIDAVITO-FUBLICATION
MUST ACCOMPANY, ALL APPLICATION

Ovietema City, Oxinhame 73102 (405) 668-7704 A COPY OF THE AFFIDAVITOF PUBLICATION MUST ACCOMPANY ALL APPLICATIONS

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: 19.12.

1st publication was made on the	day of
	ly. 20-12
2nd publication was made on the	day of
	20
3rd publication was made on the	day of
	. 20
4th publication was made on the	day of
	20
5th publication was made on the	day of
	20
6th publication was made on the	day of
TOTAL PUBLICATION FEE: \$	3921
(Signed) Joseph A Relps	lu
Subscribed and sworm to before me, this	20+6/day of
To live	, 20 12
0, 5	
Bita M. Telp	(Notary Public)
My commission expires	30, 2014
()	/

Published in the Wilson County Citizen Thursday, July 19, 2012.)

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

RE: In the Matter of Poetred: Mideontinent Production; LLC Application for Comminging of Production in the Varner Roy, E 29-2 located in

Wilson County, Kansas.
TO All Oil & Gas Producers, Unlessed Mineral Interest Owners, Landowners, and all persons whomever concerned

You, and each of you, are bereby notified that Rectrick Midcontinent Production, LLC has filed an application to commungle the Wert, Flaming Croweliury, Bevier, Mulky, Summit and Squir-ral producing formations at the Varing, Roy, E 29.2, located in the 82 SE NE, S29-7278-RISE, 29.2, located in the 82 SE NE, S29-7278-RISE, Approximately 2238 FNL & 664 FEL Wilson County Kansas

Any persons who object to or protect this ap-plication shall be required to file their objections or protest with the Conservation Division of the or protest with the Conservation Division of the State of State Corporation Commission of the State of Ransas 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 them solves 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 Oll and Gas Commission.

Upon the receipt of any protest, the Consmission will convene a hearing and protestants

mission will convene a hearing and protestants will be expected to anter an appearance either through proper legal counsel or as individuals appearing on their own behalf

description of

Postrock Midamtinent Production, LLC 210 Park Avenue, Suite 2750 Oktahoma City Oktahoma 78102 (405) 660-7704 44.1 cpy.

Rita M. Relph NOTARY PUBLIC State of Kansas STATE OF KANSAS My Commission Expires

<u> </u>		
Affidavit of Notice Served		L
Re: Application for: APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS ACO-4		
Well Name; VARNER, ROY E 29-2	Legal Location: S2SENE S29-T27S-R16E	
The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day		
, 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 e part of the application.		
Name	Address (Altech edditional sheets if necessary)	
DART CHEROKEE BASIN, LLC	600 DART RD., PO BOX 177, MASON	. MI 48854
H & M PRODUCTION LLC	7230 W 162ND ST., STE A, STILWELL	, KS 66085
SPARTAN OPERATING CO., LLC	915 NORTH WASHINGTON AVE, LANSING	G, MI 48906
I further attest that notice of the filling of this application was published in the WILSON COUNTY CITIZEN , the official county publication		
	unty. A copy of the affidavit of this publication is attached.	
Signed this	2	
	Coups I mount	
	ce me this day of AUGUST	2010
Subscribed and sworn to before	re me this day of _AUGUST	
JENNIFER R. BEAL Note	Dinneju K Deal	
SEAL MY COMMISSION EXPIRES	commission Expires: Augh 20, 201	1/2
7-20-2016 My C	Commission Express.	·
		}

.

VARNER, ROY E 29-2 - APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS Offset Operators, Unleased Mineral Owners and Landowners acreage (Allach additional sheets if necessary) Legal Description of Leasehold: Name: SEE ATTACHED I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief. Applicant or Ouly Authorized Agent Subscribed and sworn before me this JENNIFER R. BEAL Notery Publ MY COMMISSION EXPIRES

VARNER, ROY E 29-2

20,21,28,29-27S-16E

all unleased tracts

Dart Cherokee Basin, LLC 600 Dart Rd., P.O. Box 177 Mason, MI 48854

H & M Productions, LLC 7230 W. 162nd St., Ste. A Stilwell, KS 66085

Spartan Operating Co., LLC 915 North Washington Ave. Lansing, MI 48906 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

August 29, 2012

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

RE: Approved Commingling CO081214

Varner, Roy E. 29-2, Sec.29-T27S-R16E, Wilson County

API No. 15-205-26742-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on August 14, 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 Weir 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 CO081214 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