



KANSAS CORPORATION COMMISSION 1087647
 OIL & GAS CONSERVATION DIVISION

Form ACO-4
 Form must be typed
 March 2009

APPLICATION FOR COMMINGLING OF **Commingling ID # CO081226**
 PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

OPERATOR: License # 33343
 Name: PostRock Midcontinent Production LLC
 Address 1: Oklahoma Tower
 Address 2: 210 Park Ave, Ste 2750
 City: OKLAHOMA CITY State: OK Zip: 73102 + _____
 Contact Person: CLARK EDWARDS
 Phone: (620) 432-4200

API No. 15 - 15-125-32089-00-00
 Spot Description: _____
SW NE NE SE Sec. 4 Twp. 35 S. R. 17 East West
2150 Feet from North / South Line of Section
475 Feet from East / West Line of Section
 County: Montgomery
 Lease Name: DECKER, PAUL M Well #: 4-1

1. Name and upper and lower limit of each production interval to be commingled:
- | | |
|-----------------------------|-------------------------|
| Formation: <u>SUMMIT</u> | (Perfs): <u>384-387</u> |
| Formation: <u>MULKY</u> | (Perfs): <u>424-428</u> |
| Formation: <u>IRON POST</u> | (Perfs): <u>453-455</u> |
| Formation: <u>BEVIER</u> | (Perfs): <u>458-460</u> |
| Formation: <u>CROWEBURG</u> | (Perfs): <u>488-490</u> |

2. Estimated amount of fluid production to be commingled from each interval:
- | | | | |
|-----------------------------|----------------|-----------------|----------------|
| Formation: <u>SUMMIT</u> | BOPD: <u>0</u> | MCFPD: <u>2</u> | BWPD: <u>5</u> |
| Formation: <u>MULKY</u> | BOPD: <u>0</u> | MCFPD: <u>2</u> | BWPD: <u>5</u> |
| Formation: <u>IRON POST</u> | BOPD: <u>0</u> | MCFPD: <u>2</u> | BWPD: <u>5</u> |
| Formation: <u>BEVIER</u> | BOPD: <u>0</u> | MCFPD: <u>2</u> | BWPD: <u>5</u> |
| Formation: <u>CROWEBURG</u> | BOPD: <u>0</u> | MCFPD: <u>2</u> | BWPD: <u>5</u> |

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	
<input type="checkbox"/> Denied	<input checked="" type="checkbox"/> Approved
15-Day Periods Ends: <u>8/19/2012</u>	
Approved By: <u>Rick Hestermann</u>	Date: <u>08/27/2012</u>

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.



KANSAS CORPORATION COMMISSION 1065835
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33343
Name: PostRock Midcontinent Production LLC
Address 1: Oklahoma Tower
Address 2: 210 Park Ave, Ste 2750
City: OKLAHOMA CITY State: OK Zip: 73102 +
Contact Person: CLARK EDWARDS
Phone: (620) 4319500
CONTRACTOR: License # 5675
Name: McPherson, Ron dba McPherson Drilling
Wellsite Geologist: KEN RECOY
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD STOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Corr, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-parf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth: _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>6/14/2011</u>	<u>6/15/2011</u>	<u>7/6/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-125-32089-00-00

Spot Description: _____
SW NE NE SE Sec. 4 Twp. 35 S. R. 17 East West
2150 Feet from North / South Line of Section
475 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Montgomery
Lease Name: DECKER, PAUL M Well #: 4-1

Field Name: _____

Producing Formation: CHEROKEE COALS

Elevation: Ground: 777 Kelly Bushing: 0

Total Depth: 1041 Plug Back Total Depth: 1032

Amount of Surface Pipe Set and Cemented at: 23 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 1032

foot depth to: 0 w/ 160 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: _____ Date: 10/24/2011



1065835

Operator Name: PostRock Midcontinent Production LLC Lease Name: DECKER, PAUL M Well #: 4-1
 Sec. 4 Twp. 35 S. R. 17 East West County: Montgomery

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <i>(If no, Submit Copy)</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: Attached	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum SEE ATTACHED
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CASING RECORD <input checked="" 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. / FL	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	22	23	A	4	
PRODUCTION	7.875	5.5	14.5	1032.6	A	160	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing				
— Plug Back TD				
— Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	897-899/828-830	4000L 15% HCL W/ 2000L 2% HCL WATER, 8000L W/ 2% HCL, 8000L, MAXFLOW, 4000F 2040	897-899/828-830
4	625-627/488-490/458-460/433-435	4000L 15% HCL W/ 2000L 2% HCL WATER, 7000L W/ 2% HCL, 8000L, MAXFLOW, 8000F 2040	625-627/488-490/458-460/433-435
4	424-428	4000L 15% HCL W/ 2000L 2% HCL WATER, 8000L W/ 2% HCL, 8000L, MAXFLOW, 12000F 2040	424-428
4	384-387	4000L 15% HCL W/ 2000L 2% HCL WATER, 8000L W/ 2% HCL, 8000L, MAXFLOW, 8000F 2040	384-387

TUBING RECORD: Size: 1.5 Set At: 996 Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: 7/29/2011
 Producing Method: Flowing Pumping Gas Lift Other (Explain) _____
 Estimated Production Per 24 Hours: Oil 0 Bbls. Gas 0 Mcf Water 53 Bbls. Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Ventd <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	PostRock Midcontinent Production LLC
Well Name	DECKER, PAUL M 4-1
Doc ID	1065835

All Electric Logs Run

GRN
DIL
CDL
NDL
TEMP

QUEST

Resource Corporation

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

AFE
D11048

1800 + 5700 South 5/8 wind

TICKET NUMBER 7089

FIELD TICKET REF # _____

FOREMAN Joe Blanchard

SSI 630070

API 15-125-32089

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-16-11	Decker Paul 4-1	4	35	17	MG

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe Blanchard	6:00	10:00		904850		4	Joe Blanchard
Wes Gydman	6:00			931505	931395		Wes Gydman
DUSTIN PORTA	6:00			903600			Dustin Porta
Justin T. Johnson	6:00			903197			Justin T. Johnson

JOB TYPE Longstring HOLE SIZE 7 7/8 HOLE DEPTH 1040 CASING SIZE & WEIGHT 5 1/2 14#
 CASING DEPTH 1032.60 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
 DISPLACEMENT 24.58 DISPLACEMENT PSI _____ MIX PSI _____ RATE 46ppm

REMARKS:

Installed Cement head Ran 1 sk gal of 16 BBI dye of 160 sks of cement to get dye to surface. Flush pump. Pump wiper plug to bottom of set float shoe.

started casing 8:00 started cement 9:15

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
904850	4 hr	Foreman Pickup	
903197	4 hr	Cement Pump Truck	
903600	4 hr	Bulk Truck	
931505	4 hr	Transport Truck	
931395	4 hr	Transport Trailer	
		80 Vac	
	1032.60 FT	Casing 5 1/2	
	6	Centralizers	
	1	Float Shoe	
	1	Wiper Plug	
	1	Frac Baffles 4 1/2" Big hole	
	125 SK	Portland Cement	
	35 SK	Gilsonite	
	1 SK	Flo-Seal	
	9 SK	Premium Gel	
	6 SK	Gal Chloride	
	1	5 1/2 Basket	
	7000 gal	City Water	
903142	4 hr	Casing tractor	
931900	4 hr	Casing trailer	

TD L. M. Pherson Drilling 06/15/11 Wednesday @ 1 PM.

Pipe#	Length	Running Total	Baffle Location	POSTROCK ENERGY CORP - CASING TALLY SHEET
1	39.62	39.62		Date: 6/14/11
2	39.81	79.43	Cement Basket	Well Name & #: Decker, Paul M. 4-1
3	39.74	119.17		Township & Range: 35S-17E
4	38.23	(157.40)	@ 157 ft.	County/State: Montgomery / Kansas
5	39.08	196.48		SSI #: 630070
6	39.88	236.36		AFE#: D11048
7	38.54	274.90		Road Location: 1800 Rd. & 5700 Rd., S & W into
8	39.17	314.07		API# 15-125-32089
9	39.14	353.21		
10	38.40	391.61		
11	39.45	431.06	No Upper Baffle here. Not enough room.	
12	39.28	470.34		
13	39.62	509.96		
14	38.52	548.48		
15	40.24	588.72		
16	40.12	628.84		
17	40.60	669.44		
18	39.67	709.11		
19	39.62	748.73		
20	39.54	788.27	← Set Lower Baffle @ 788.27 ft. Big Hole. *	
(21)	38.78	827.05		Using up Big Holes on Lower Baffle.
22	39.58	866.63		
23	38.54	905.17		
24	39.68	944.85		
25	38.93	983.78		
(26)	38.82	1022.60		
27	39.49	1062.09	out	
(Sub)	10.00	1072.09	Tally Bottom	1032.60 ft.
Use 26 joints & the 10 ft. Sub.				
Do Not use joint # 27.				
Be Safe.				
Bottom String:				

Miss Top 909 ft.
Tally Bottom 1032.60 ft.
Driller TD 1040 ft.
Log Bottom 1040.70 ft.

Teamwork works! Put Safety 1st!

TKD Ke Ross
 Sr. Geologist
 Cell 820-305-9900
 06-15-2011

McPherson Drilling LLC Drillers Log

PO# _____ AFE# D11048

Rlg Number: 1	S. 4 T. 35 R.17 E
API No. -105- 125-32089	County: Montgomery
Elev. 777	Location:

Operator: POSTROCK			
Address: 210 Park Ave Ste 2750 Oklahoma City, OK 73102-5641			
Well No: 4-1	Lease Name: DECKER		
Footage Location: 2,150 ft. from the SOUTH Line	475 ft. from the EAST Line		
Drilling Contractor: McPherson Drilling LLC			
Spud date: 6/14/2011	Geologist: Ken Re coy		
Date Completed: 6/15/2011	Total Depth: 1040		

Gas Tests:	
78'	0
203'	0
228'	0
303'	0
404'	1.68
429'	2.92
454'	2.92
529'	2.92
604'	3.37
629'	6.55
679'	5.32
704'	5.32
905'	6.55
929'	5.86
1040'	5.86
Comments:	
Start injecting @	

Casing Record			Rlg Time:	
	Surface	Production		
Size Hole:	11"	7 7/8"		
Size Casing:	8 5/8"		394' & 462'	odor
Weight:	20#			
Setting Depth:	23	MCP	910'	h2o
Type Cement:	Port		DRILLER:	Andy Coats
Sacks:	4	MCP		

Well Log									
Formation	Top	Btm.	HRS.	Formation	Top	Btm.	Formation	Top	Btm.
soil	0	2		coal	625	627			
lime	2	5		shale	627	657			
shale	5	50		coal	657	658			
lime	50	62		shale	658	685			
black shale	62	64		coal	685	687			
lime	64	73		shale	687	894			
shale	73	193		coal	894	896			
lime	193	212		shale	896	907			
coal	212	214		miss	907	1040			
shale	214	350							
oswego	350	383							
summit	383	388							
lime	388	419							
mulky	419	425							
lime	425	431							
shale	431	450							
coal	450	452							
shale	452	462							
oil sand	462	468							
sand shale	468	505							
coal	505	506							
shale	506	590							
coal	590	591							
shale	591	625							

	A	B	C	D	E	F	G	H	I	J	K		
1	Produced Fluids #		1	2	3	4	5						
2	Parameters	Units	Input	Input	Input	Input	Input						
3	Select the brines	Select fluid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mixed brine:	Click here to run SSP	Goal Seek SSP	Click		
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.			Click		
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			Click		
9	Field		CBM	CBM	Bartles	Bartles	Bartles	calculations.			Click		
10	Na ⁺	(mg/l)*	19,433.00	27,381.00	26,534.00	25689.00	24220.00	24654.20			Initial(BH)	Final(WH)	S/SR
11	K ⁺ (if not known =0)	(mg/l)						0.00			Saturation Index values		(Final-Initial)
12	Mg ²⁺	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite				
13	Ca ²⁺	(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 ²⁺	(mg/l)						0.00	Barite				
15	Ba ²⁺	(mg/l)						0.00					
16	Fe ²⁺	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite				
17	Zn ²⁺	(mg/l)						0.00	-1.77	-1.80	-0.03		
18	Pb ²⁺	(mg/l)						0.00	Gypsum				
19	Cl ⁻	(mg/l)	36,299.00	48,965.00	47,874.00	45632.00	43147.00	44388.44	-3.19	-3.18	0.00		
20	SO ₄ ²⁻	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate				
21	F ⁻	(mg/l)						0.00	-3.96	-3.90	0.06		
22	Br ⁻	(mg/l)						0.00	Anhydrite				
23	SiO ₂	(mg/l) SiO ₂						0.00	-3.47	-3.36	0.12		
24	HCO ₃ Alkalinity**	(mg/l as HCO ₃)	190.00	234.00	259.00	268.00	254.00	241.03	Celestite				
25	CO ₃ Alkalinity	(mg/l as CO ₃)											
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide				
27	Ammonia	(mg/L) NH ₃						0.00	-0.16	-0.22	-0.06		
28	Borate	(mg/L) H ₃ BO ₃						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 ₂ Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16					
32	H ₂ S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate				
33	Total H ₂ Saq	(mgH ₂ S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23		
34	pH, 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 ₂ +Alk, 1-pH+Alk, 2-CO ₂ +pH	0	0	0	0	0		Calcite	NTMP			
36	Gas/day(thousand cf/day)	(Mcf/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 Celts (H40-H43)								(Enter H40-H43)		pH		
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 ⁺ (Strong acid) †	(N)											
51	OH ⁻ (Strong base) †	(N)											
52	Quality Control Checks at STP:												
53	H ₂ S Gas	(%)											
54	Total H ₂ Saq (STP)	(mgH ₂ S/l)											
55	pH Calculated	(pH)											
56	PCO ₂ Calculated	(%)											
57	Alkalinity Calculated	(mg/l) as HCO ₃											
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)		Value					
62	Protection Time	120	min	1	NTMP	From Unit	To Unit	Value					
63	Have ScaleSoft/Pitzer			2	BHPMP	°C	°F	176					
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m ³	ft ³	3,531					
65	If No, inhibitor # is:	4	#	4	DTPMP	m ³	bb(42 US gal)	629					
66	If you select Mixed,			5	PPCA	MPa	psia	145,074					
67	1 st inhibitor # is:	1	#	6	SPA	Bar	psia	7,194					
68	% of 1 st inhibitor is:	50	%	7	HEDP	Torr	psia	193					
69	2 nd inhibitor # is:	2	#	8	HDTMP	Gal	bb(42 US gal)	238					
70	Display act. coef's?	0	1-Yes;0-No	9	Average	Liters	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 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

POSTROCK



Current Completion

WELL : Decker, Paul M 4-1
FIELD : Cherokee Basin
STATE : Kansas
COUNTY : Montgomery

SPUD DATE : 6/14/2011
COMP. Date : 7/6/2011
API: 15-125-32089-00-00

LOCATION: 4-35S-17E (NE, SE)
ELEVATION: GL - 777'

8 5/8" 20 lb @ 23' Cement w/4 sks

Wellhead/Surface Equipment

Tree Connection	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

Tubular Detail

Size	Weight	Grade	Cap(bb/ft)	Date	Depth
8 5/8"	20 lb			2011	23'
5 1/2"	14.5 lb		.0244	2011	1032'
1 1/2"				2011	996"

Downhole Equipment Detail

Completion Data

Original as GAS Well per ACO-1
1,200 gals 15% HCL
2,000 bbls water
19,500 lbs 20/40 sand

Perforations

Original Completion: 4 spf
384-387 (Summit)
424-428 (Mulky)
453-455 (Iron Post)
458-460(Bevier)
488-490 (Croweburg)
625-627 (Weir)
828-830 (Rowe)
897-899 (Riverton)

1 1/2" tubing @ 996"

5.5" 14.5 lb @ 1032' Cement w/160 sks

PBTD @ 1032'

Drilled Depth @ 1041'

PREPARED BY: POSTROCK

DATE: July, 2012

APPROVED BY: _____

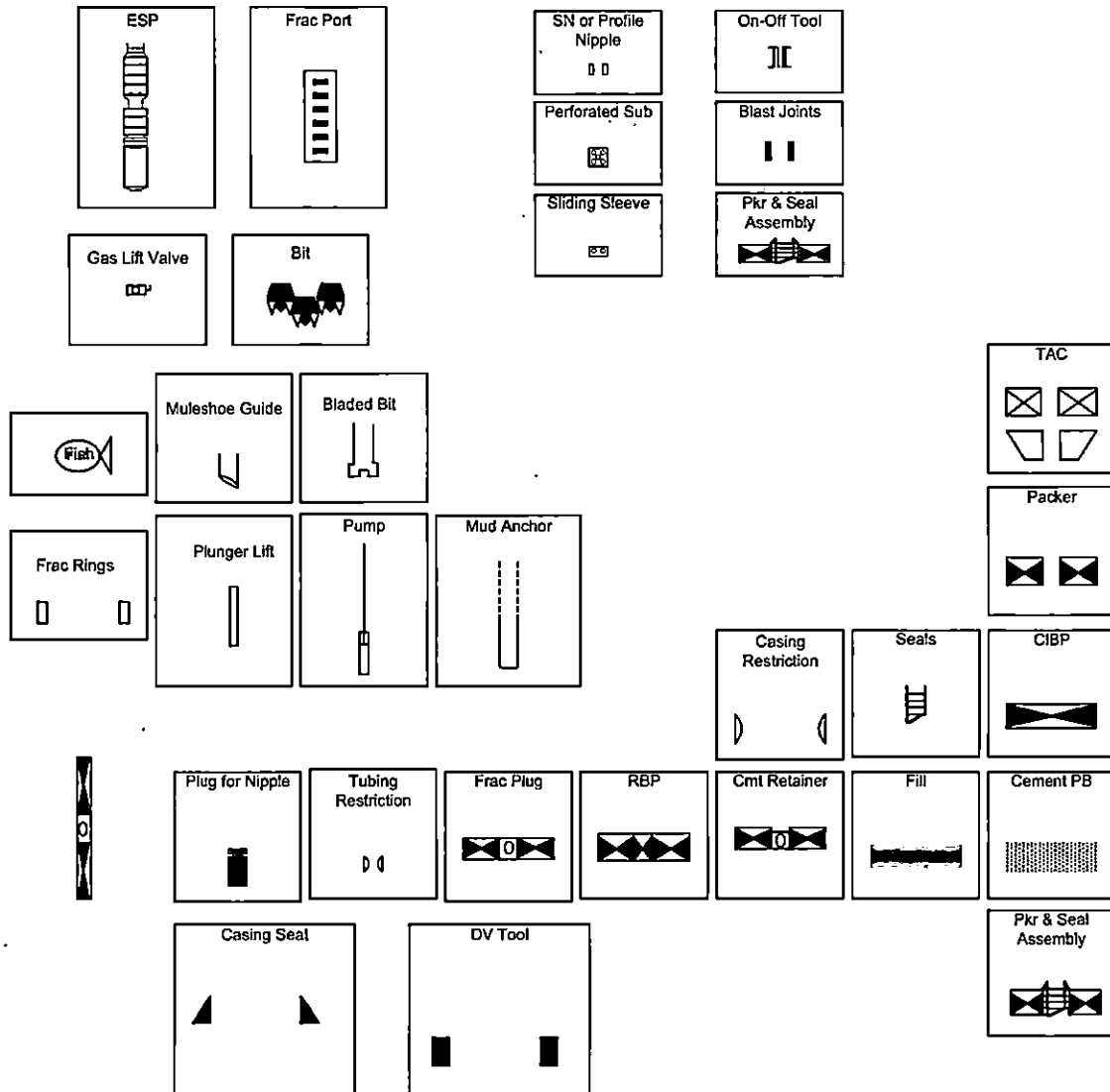
DATE: _____

POSTROCK



LEGEND

PostRock™



Affidavit of Notice Served

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

Well Name: DECKER, PAUL M 4-1 Legal Location: SWNESE S4-T35S-R17E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 31st of JULY, 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	Address (Attach additional sheets if necessary)
ALLENERGY, INC	PO BOX 453201, GROVE, OK 74345
TERESA & RICK BRADLEY	1691 CR 5700, COFFEYVILLE, KS 67337
JAMES A FERGUSON	RR2 BOX 202F, 1650 5700 RD, COFFEYVILLE, KS 67337
DON KENDRICK	110 W THIRD, CANEY, KS 67333
SEE ATTACHED	

I further attest that notice of the filing of this application was published in the COFFEYVILLE JOURNAL, the official county publication of MONTGOMERY county. A copy of the affidavit of this publication is attached.

Signed this 31st day of JULY, 2012

[Signature]
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 31st day of JULY, 2012



[Signature]
Notary Public
My Commission Expires: July 20, 2016



DECKER, PAUL 4-1

4-35S-17E

Notes

Tract in SW NE Roger Dale Cornett and Linda C. Cornett *per OR dtd 7.1.10*
(19.4 Acres) 1300 North Woodchuck Lane
Skiatook, OK 74070

Tract in NE NE Bryson P & Ashley R Kitterman *owner changed*
(9.55 Acres) 1697 County Road 5700
Coffeyville, KS 67337

Tract in NW Kris Miller *per TO dtd 7.25.11 (TO attached to e-mail for your reference)*
(24.9 Acres) 5529 CR 1650
Coffeyville, KS 67337 *Address updated*

3-35S-17E

W2 SW less trcts Frances D. Ferguson
P.O. Box 129
Edna, KS 67342

trct in W2SW James A. Ferguson
1650 CR 5700
Coffeyville, KS 67337

trct in W2SW School District No. 97
Attn: Joe Ferguson
107 Adams St
Coffeyville, KS 67337-6901

9-35S-17E

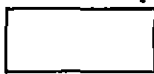
NE Frazee Cattle Co., L.L.C.
(portion) 5560 CR 1425
Coffeyville, KS 67337

10-35S-17E

NW Roy W. and Kathy L. Woolfolk
(portion) 1462 CR 5700
Coffeyville, KS 67337

DECKER, PAUL M 4-1 - 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:

SEE ATTACHED

Multiple horizontal lines for text entry, corresponding to the 'Name' and 'Legal Description of Leasehold' labels.

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

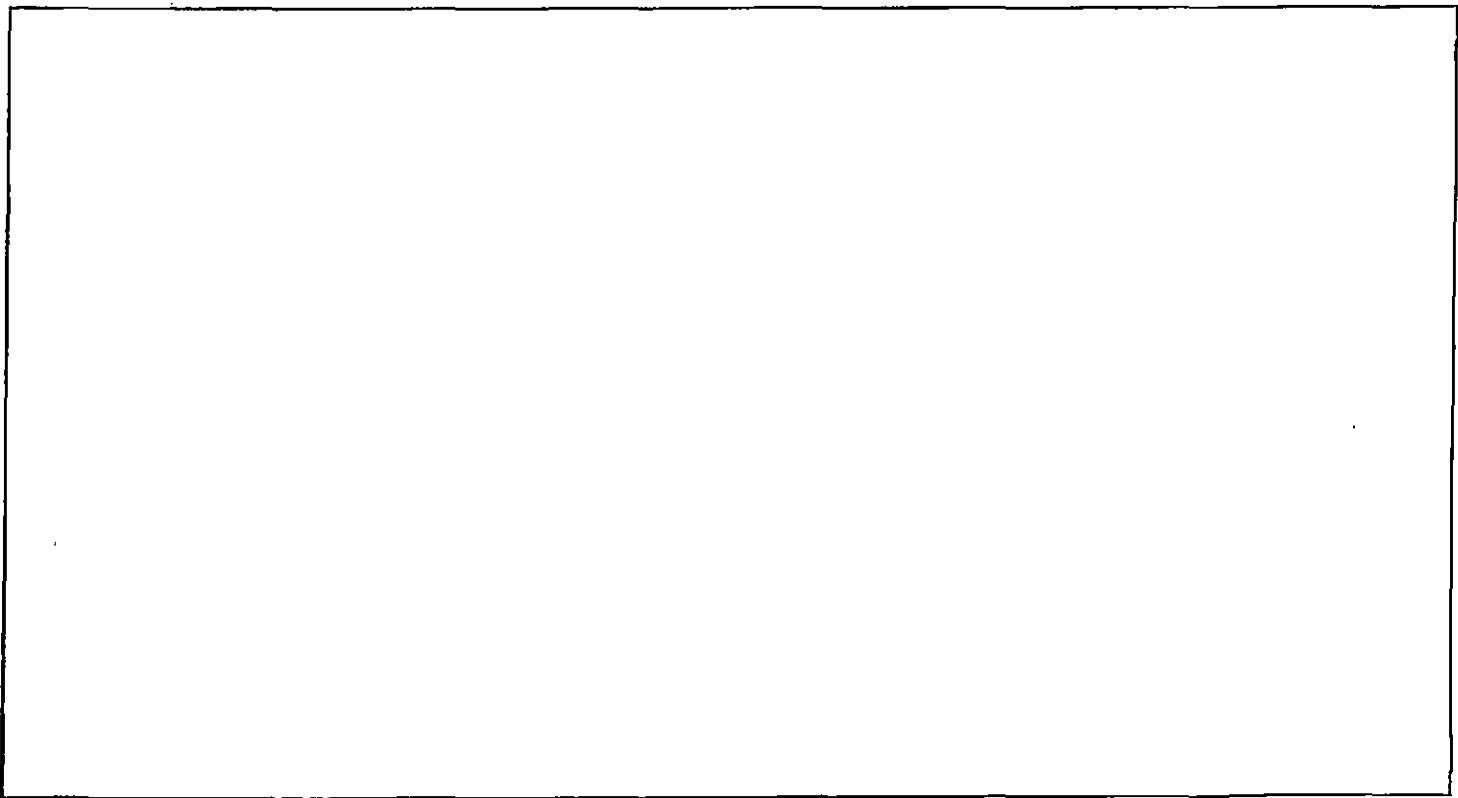
Jerry L Morris
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 31st day of JULY, 2012



Jennifer R Beal
Notary Public

My Commission Expires: July 20, 2014



DECKER, PAUL 4-1

4-35S-17E

Notes

Tract in SW NE Roger Dale Cornett and Linda C. Cornett
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Skiatook, OK 74070

per OR dtd 7.1.10

Tract in NE NE Bryson P & Ashley R Kitterman
(9.55 Acres) 1697 County Road 5700
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owner changed

Tract in NW Kris Miller
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9-35S-17E

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(portion) 5560 CR 1425
Coffeyville, KS 67337

10-35S-17E

NW Roy W. and Kathy L. Woolfolk
(portion) 1462 CR 5700
Coffeyville, KS 67337

DECKER, PAUL 4-1

SPOT	LEGAL LOCATION	CURR_OPERA
NW NE SW	S3-T35S-R17E	Allenergy, Inc.
SE NE NE	S4-T35S-R17E	Bradley, Teresa and Rick (Residential)
NW NE SW	S3-T35S-R17E	Ferguson, James A.
NW NE SW	S3-T35S-R17E	Ferguson, James A.
SW SW SW	S3-T35S-R17E	Ferguson, James A.
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SW NE	S4-T35S-R17E	Kendrick, Don
SW NE	S4-T35S-R17E	Kendrick, Don
SW NE	S4-T35S-R17E	Kendrick, Don
SW NE	S4-T35S-R17E	Kendrick, Don
SW NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don
SE NE	S4-T35S-R17E	Kendrick, Don

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 2nd 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.

Mark Fletchall

Subscribed and sworn to before me this

2nd day of August, 2012

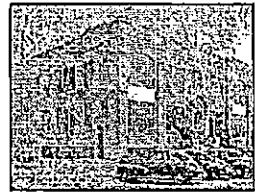
PENNY L. CASE
Notary Public - State of Kansas
My Appt. Expires 5/28/2014

Penny L. Case
Notary Public Sedgwick County, Kansas

Printer's Fee : \$139.60

LEGAL PUBLICATION
PUBLISHED IN THE WICHITA EAGLE
AUGUST 2, 2012 (319247)
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
Decker, Paul M. 4-1, located in
Montgomery County, Kansas.
TO: All Oil & Gas Producers, Unleased
Mineral Interest Owners, Landowners,
and all persons who may be concerned.
You, and each of you, are hereby notified
that Postrock Midcontinent Production, LLC
has filed an application for commencing the
Riverton, Rowe, Weir, Crowburn, Beaver
Iron Post, Mulky, Summit and Squared
producing formations of the Decker, Paul M.
4-1, located in the SW NE SE, S4 T35
R17E, Approximately 2150 FSL & 475 FSL,
Montgomery 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 persons 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**

The Coffeyville Journal



302 W. 8th • 251-3300 • 251-1905 FAX

Affidavit of Publication

Hayley Henderson- Crawford of lawful age, being first duly sworn, deposes, and says, that she is The Classified Representative for THE COFFEYVILLE JOURNAL, that same is a tri-weekly newspaper; that said newspaper prior to the date of the first publication of notice hereinafter referred to and at the present time was and now is admitted to the mail as second class matter in Montgomery County, Kansas. That said newspaper is of general circulation in said county and has been continuously and uninterruptedly published in said county during the period of one year prior to the first publication hereinafter mentioned; that the notice, a true copy of which is hereto attached, was published in the regular and entire issue of each number of said newspaper for One consecutive Day.

The first publication being August 4, 2012.

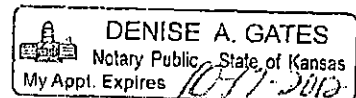
And the last publication being August 4, 2012.

Hayley Henderson Crawford

Subscribed and sworn to before me this 17th day of August, 2012

Denise A. Gates Notary Public.

My Appointment Expires 10-17, 2012



Printer's Fee \$68.40

Legal Notice

(First published in The Coffeyville Journal on Saturday, August 4, 2012)

**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 Decker, Paul M 4:1 located in Montgomery County, Kansas.

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

You, and each of you, are hereby notified that Postrock Midcontinent Production, LLC has filed an application to commingle the Riverton, Rowe, Weir, Croweburg, Beaver, Iron Post, Mulky, Summit and Squirrel producing formations at the Decker, Paul M 4:1 located in the SW NE NE SE, S4-T35S-R17E, Approximately 2150 FSL & 475 FEL, Montgomery 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

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

Sam Brownback, Governor

August 27, 2012

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

RE: Approved Commingling CO081226
Decker, Paul M. 4-1, Sec. 4-T35S-R17E, Montgomery County
API No. 15-125-32089-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on August 27, 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 CO081226 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