



KANSAS CORPORATION COMMISSION 1089995  
OIL & GAS CONSERVATION DIVISION

Form ACO-4  
Form must be typed  
March 2009

APPLICATION FOR COMMINGLING OF **Commingling ID # CO081223**  
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 - 15-205-27903-00-00  
Spot Description: \_\_\_\_\_  
\_\_\_\_\_ SE NW Sec. 5 Twp. 28 S. R. 17  East  West  
1980 Feet from  North /  South Line of Section  
1980 Feet from  East /  West Line of Section  
County: Wilson  
Lease Name: GRADY, JAMES A Well #: 5-2

1. Name and upper and lower limit of each production interval to be commingled:  
Formation: HUSHPUCKNEY (Perfs): 368-371  
Formation: HOLDENVILLE (Perfs): 492-496  
Formation: SUMMIT (Perfs): 710-715  
Formation: MULKY (Perfs): 722-726  
Formation: TEBO (Perfs): 920-922

2. Estimated amount of fluid production to be commingled from each interval:  
Formation: HUSHPUCKNEY BOPD: 0 MCFPD: 5.67 BWPD: 6.67  
Formation: HOLDENVILLE BOPD: 0 MCFPD: 5.67 BWPD: 6.67  
Formation: SUMMIT BOPD: 0 MCFPD: 5.67 BWPD: 6.67  
Formation: MULKY BOPD: 0 MCFPD: 5.67 BWPD: 6.67  
Formation: TEBO BOPD: 0 MCFPD: 5.67 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.

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

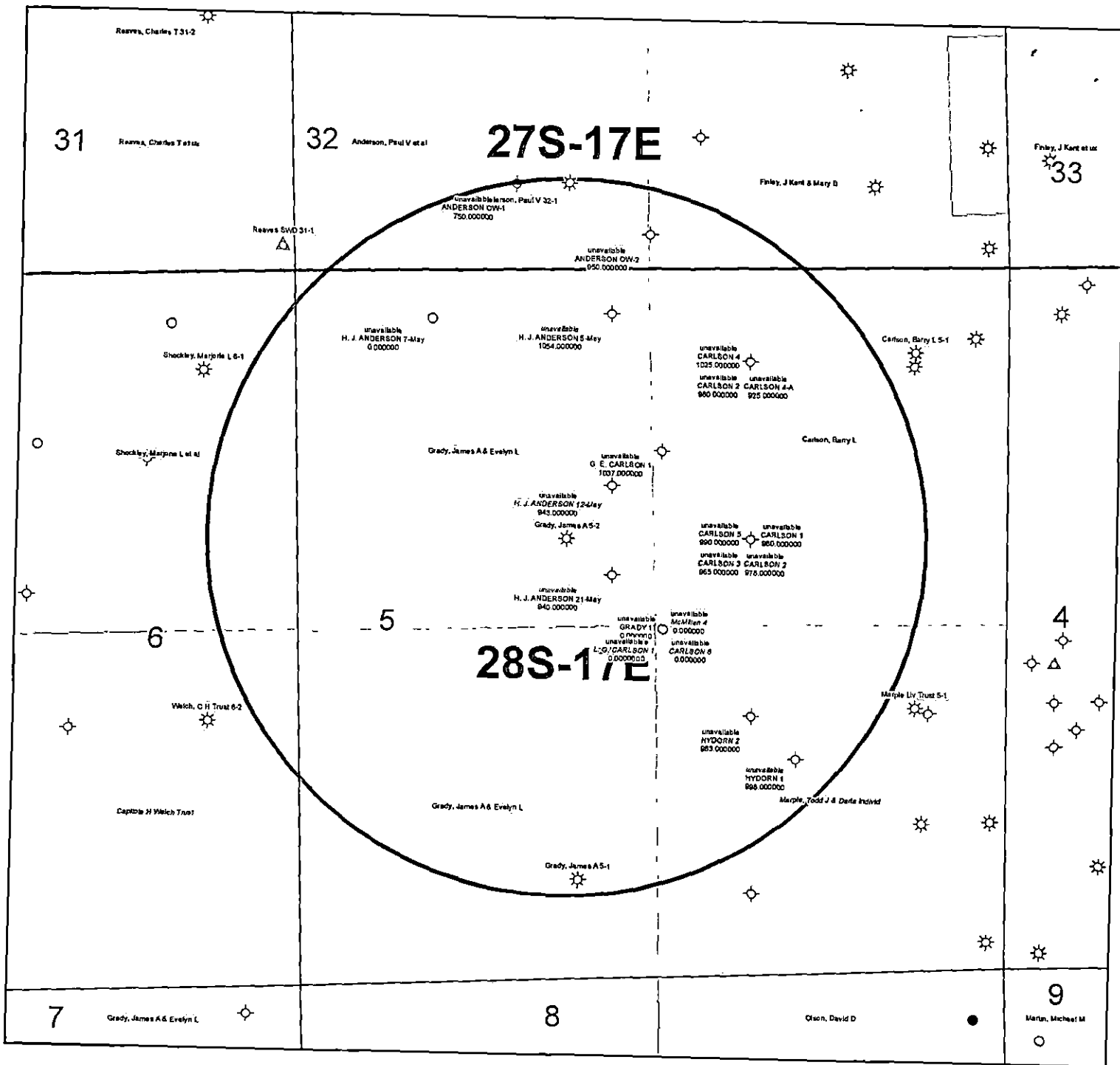
7. Well construction diagram of subject well.  
 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

**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

<b>KCC Office Use Only</b>	
<input type="checkbox"/> Denied	<input checked="" type="checkbox"/> Approved
15-Day Periods Ends: <u>8/29/2012</u>	
Approved By: <u>Rick Hestermann</u>	Date: <u>08/29/2012</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.*



**KGS STATUS**

- ⊕ DA/PA
- ⊗ EOR
- ⊛ GAS
- △ INJ/SWD
- OIL
- ⊛ OIL/GAS
- OTHER

Grady, James A 5-2  
 5-28S-17E  
 1" = 1,000'

	A	B	C	D	E	F	G	H	I	J	K
1	Produced Fluids #		1	2	3	4	5		Click here to run SSP  Goal Seek SSP		Click
2	Parameters	Units	Input	Input	Input	Input	Input				Click
3	Select the brines	Select fluid by checking the box(es),	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mixed brine:			Click
4	Sample ID	Row 3						Cell H28 is			Click
5	Date	3/19/2012	3/4/2012	3/14/2012	1/20/2012	1/20/2012		STP calc. pH.			Click
6	Operator	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 <sup>+</sup>	(mg/l)*	19,433.00	27,381.00	26,534.00	25,689.00	24,220.00	24,654.20	Initial(BH)	Final(WH)	SI/SR (Final-Initial)
11	K <sup>+</sup> (if not known =0)	(mg/l)						0.00	Saturation Index values		
12	Mg <sup>2+</sup>	(mg/l)	1,096.00	872.00	1,200.00	953.00	858.00	995.91	Calcite		
13	Ca <sup>2+</sup>	(mg/l)	1,836.00	2,452.00	2,044.00	1,920.00	1,948.00	2,040.23	-0.73	-0.60	0.13
14	Sr <sup>2+</sup>	(mg/l)						0.00	Barite		
15	Ba <sup>2+</sup>	(mg/l)						0.00			
16	Fe <sup>2+</sup>	(mg/l)	40.00	21.00	18.00	82.00	90.00	50.21	Halite		
17	Zn <sup>2+</sup>	(mg/l)						0.00	-1.77	-1.80	-0.03
18	Pb <sup>2+</sup>	(mg/l)						0.00	Gypsum		
19	Cl <sup>-</sup>	(mg/l)	36,299.00	48,965.00	47,874.00	45,632.00	43,147.00	44,388.44	-3.19	-3.18	0.00
20	SO <sub>4</sub> <sup>2-</sup>	(mg/l)	1.00	1.00	8.00	1.00	1.00	2.40	Hemihydrate		
21	F <sup>-</sup>	(mg/l)						0.00	-3.96	-3.90	0.06
22	Br <sup>-</sup>	(mg/l)						0.00	Anhydrite		
23	SiO <sub>2</sub>	(mg/l) SiO <sub>2</sub>						0.00	-3.47	-3.36	0.12
24	HCO <sub>3</sub> Alkalinity**	(mg/l as HCO <sub>3</sub> )	190.00	234.00	259.00	268.00	254.00	241.03	Celestite		
25	CO <sub>3</sub> Alkalinity	(mg/l as CO <sub>3</sub> )									
26	Carboxylic acids**	(mg/l)						0.00	Iron Sulfide		
27	Ammonia	(mg/L) NH <sub>3</sub>						0.00	-0.16	-0.22	-0.06
28	Borate	(mg/L) H <sub>3</sub> BO <sub>3</sub>						0.00	Zinc Sulfide		
29	TDS (Measured)	(mg/l)						72781			
30	Calc. Density (STP)	(g/ml)	1.038	1.051	1.050	1.048	1.045	1.047	Calcium fluoride		
31	CO <sub>2</sub> Gas Analysis	(%)	19.97	18.76	22.41	35.53	33.79	26.16			
32	H <sub>2</sub> S Gas Analysis***	(%)	0.0289	0.0292	0.0296	0.0306	0.0151	0.0269	Iron Carbonate		
33	Total H <sub>2</sub> Saq	(mgH <sub>2</sub> S/l)	1.00	1.00	1.00	1.00	0.50	0.90	-0.74	-0.51	0.23
34	pH, measured (STP)	pH	5.67	5.76	5.72	5.54	5.55	5.63	Inhibitor needed (mg/L)		
	Choose one option to calculate SI?	0-CO <sub>2</sub> %+Alk, 1-pH+Alk, 2-CO <sub>2</sub> %+pH	0	0	0	0	0		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 Cells (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 <sup>o</sup> C)		
44	Use TP on Calcite sheet?	1-Yes;0-No							0.955	0.959	
45	API Oil Grav.	API grav.						30.00	Inhibitor needed (mg/L)		
46	Gas Sp.Grav.	Sp.Grav.						0.60	Gypsum	HDTMP	
47	MeOH/Day	(B/D)	0					0	0.00	0.00	
48	MEG/Day	(B/D)	0					0	Anhydrite	HDTMP	
49	Conc. Multiplier								0.00	0.00	
50	H <sup>+</sup> (Strong acid) <sup>1</sup>	(N)									
51	OH <sup>-</sup> (Strong base) <sup>1</sup>	(N)									
52	Quality Control Checks at STP:										
53	H <sub>2</sub> S Gas	(%)									
54	Total H <sub>2</sub> Saq (STP)	(mgH <sub>2</sub> S/l)									
55	pH Calculated	(pH)									
56	PCO <sub>2</sub> Calculated	(%)									
57	Alkalinity Calculated	(mg/l) as HCO <sub>3</sub>									
58	ΣCations=	(equiv./l)									
59	ΣAnions=	(equiv./l)									
60	Calc TDS=	(mg/l)									
61	Inhibitor Selection	Input	Unit	#	Inhibitor	Unit Converter (From metric to English)			Value		
62	Protection Time	120	min	1	NTMP	From Unit	To Unit		Value		
63	Have ScaleSoftPitzer			2	BHPMP	°C	°F		80	176	
64	pick inhibitor for you?	1	1-Yes;0-No	3	PAA	m <sup>3</sup>	ft <sup>3</sup>		100	3,531	
65	If No, inhibitor # is:	4	#	4	DTPMP	m <sup>3</sup>	bbl(42 US gal)		100	629	
66	If you select Mixed,			5	PPCA	MPa	psia		1,000	145,074	
67	1 <sup>st</sup> inhibitor # is:	1	#	6	SPA	Bar	psia		496	7,194	
68	% of 1 <sup>st</sup> inhibitor is:	50	%	7	HEDP	Torr	psia		10,000	193	
69	2 <sup>nd</sup> inhibitor # is:	2	#	8	HDTMP	Gal	bbl(42 US gal)		10,000	238	
70	Display act. coeffs?	0	1-Yes;0-No	9	Average	Liters	bbl(42 US gal)		10,000	63	
71				10	Mixed						

## Saturation Index Calculations

*Champion Technologies, Inc.*

(Based on the Tomson-Oddo Model)

**Brine 1:** Ward Feed Yard 34-1

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

**Brine 3:** Clinesmith 5-4

**Brine 4:** Clinesmith 1

**Brine 5:** Clinesmith 2

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

### Saturation Index

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

### PTB

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



KANSAS CORPORATION COMMISSION 1058604  
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: LANCE GALVIN  
Phone: (405) 600-7704  
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  SIOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.):

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

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

2/7/2011	2/11/2011	2/22/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-205-27903-00-00  
Spot Description:  
SE NW Sec. 5 Twp. 28 S. R. 17  East  West  
1980 Feet from  North /  South Line of Section  
1980 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Wilson  
Lease Name: GRADY, JAMES A Well #: 5-2  
Field Name:  
Producing Formation: CHEROKEE COALS  
Elevation: Ground: 991 Kelly Bushing: 0  
Total Depth: 1270 Plug Back Total Depth: 1267  
Amount of Surface Pipe Set and Cemented at: 21 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: Feet  
If Alternate II completion, cement circulated from: 1267  
feet depth to: 0 w/ 185 sx cm.

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: Deanna Gantner Date: 06/30/2011



1058604

Operator Name: PostRock Midcontinent Production LLC Lease Name: GRADY, JAMES A Well #: 5-2  
 Sec. 5 Twp. 28 S. R. 17  East  West County: Wilson

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach 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	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SEE ATTACHED	
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: <b>Attached</b>			

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	21	A	4	
PRODUCTION	7.875	5.5	14.5	1267.92	A	185	

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	1120-1122	400GAL 15% HCL W/ 800LBS 2% KCL WATER, 4200LBS W/ 2% KCL, 800GAL MAXFLOW, 2200F 2004	1120-1122
4	920-922	400GAL 15% HCL W/ 800LBS 2% KCL WATER, 4400LBS W/ 2% KCL, 800GAL MAXFLOW, 3018F 2004	920-922
4	722-726/710-715	400GAL 15% HCL W/ 800LBS 2% KCL WATER, 7600LBS W/ 2% KCL, 800GAL MAXFLOW, 17972F 2004	722-726/710-715
4	492-496/368-371	400GAL 15% HCL W/ 800LBS 2% KCL WATER, 8410LBS W/ 2% KCL, 800GAL MAXFLOW, 10344F 2004	492-496/368-371

TUBING RECORD:	Size: <u>1.5</u>	Set At: <u>1200</u>	Packer At: <u>N/A</u>	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>3/8/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>0</u>	Gas Mcf <u>34</u>	Water Bbls. <u>20</u>	Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Gpsn	BDP2!. IX f mDpn qrfijpo
Pqf sbups	Qpt uSpdl !Njedpojof ouQspevdijpo!MD
X f mObn f	HSBEZ-!KBN FT!BI6.3
Epd!E	2169715

BrntF rhdusjd!Mpht !Svo

DEM	
EJM	
OEM	
UFNQ	

# QUEST

Resource Corporation



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

Called Becke @ KCC 9:00AM

D 11009

TICKET NUMBER

7031

FIELD TICKET REF #

FOREMAN Joe Blanchard

SSI 619430

API 15-205-27903

## TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-16-11	Grady James A 5-2	5	28	17	Wb

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe Blanchard	6:00	12:00		904850		6	Joe Blanchard
OTSO PETERS	6:00			903197		6	OTSO PETERS
Nathan Gibson	6:45			903142	932900	5.25	Nathan Gibson
Wes Grippen	6:45			921585	931387	5.25	Wes Grippen
Matt Noff	6:00			903600		6	Matt Noff
Justin Jensen	7:00			Tractor		5	Justin Jensen

JOB TYPE hangstring HOLE SIZE 7 7/8 HOLE DEPTH 1270 CASING SIZE & WEIGHT 5 1/2 11.2  
 CASING DEPTH 1267.92 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 0  
 DISPLACEMENT 30.18 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS:

washed 80 FT supt to socks gal Installed cementhead pump 22 BBI dye & 185 SKS of cement Ran out of cement Flush pump Pump wiper plug to bottom & set float shoe. Light Cement To Surface due to Running out of cement during end of Job.

Started in hole 9:00 AM. Landed casing 10:30. Started cement 11:15  
 Foggy so took Rig mobile to get to location. 30 minute wait on water to cement.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
904850	6 hr	Foreman Pickup	
903197	6 hr	Cement Pump Truck	
903600	6 hr	Bulk Truck	
931585	5.25 hr	Transport Truck	
931387	5.25 hr	Transport Trailer	
904735	6 hr	80 Vac	
	1267.92 ft	Casing 5 1/2	
	7	Centralizers	
	1	Float Shoe	
	1	Wiper Plug	
	2	Frac Baffles 4" & 4 1/2"	
	150 SK	Portland Cement	
	40 SK	Gilsorite	
	2 SK	Flo-Seal	
	16 SK	Premium Gel	
	6 SK	Cal Chloride	
	1	KCL 5 1/2 Basket	
	7000 gal	City Water	
903142	5.25 hr	Casing tractor	
932900	5.25 hr	Casing trailer	



Called Rocks @ KCC 9:00 AM 2-16-11

DDd. M. Pherson Drilling Friday 02/11/2011 @ 4 PM.

Pipe#	Length	Running Total	Baffle Location	POSTROCK ENERGY CORP - CASING TALLY SHEET
1	37.78	37.78		Date: 02/14/2011
2	39.80	77.58	Cement Basket	Well Name & #: Grady, James A. 5-2
3	39.45	117.03	196 Jo	Township & Range: 28S-17E
4	39.45	156.48		County/State: Wilson/Kansas
5	39.88	196.36	235 ft	SSI #: 618430
6	39.10	235.46		APE#: D11009
7	39.38	274.84		Road Location: 1900 & Wichita, W&S into
8	39.56	314.40		API# 15-205-27903
9	38.82	353.22		
10	38.91	392.13		
11	38.24	430.37		
12	38.92	469.29		
13	38.75	508.04		
14	38.92	546.96		
15	38.98	585.94		
16	38.38	624.32		
17	39.12	663.44		
18	39.83	703.27		
19	39.60	742.87		
20	40.12	782.99		
21	38.98	821.97	← Set Upper Baffle @ 821.97 ft. Big Hole.	
(22)	38.58	860.55		
23	38.32	898.87		
24	39.20	938.07		
25	39.00	977.07		
26	40.23	1017.30		
27	39.99	1057.29	← Set Lower Baffle @ 1057.29 ft. Small Hole.	
(28)	38.78	1096.07		
29	39.09	1135.16		
30	39.02	1174.18		
31	39.71	1213.85		
(32)	39.07	1252.92		
(Sub)	15.00	1267.92		
Use all 32 joints + the 15 ft. Sub.				
<b>Be Safe !!</b>				


*Small  
Kor*

Miss Top = 1130 ft.

Tally Bottom = 1267.92 ft.

Log Bottom = 1269.50 ft.

Driller TD = 1270 ft.

Teamwork works! Put Safety 1st!  
 Ke Leary  
 Cell 620-305-9900  
 02-14-2011

McPherson Drilling LLC Drillers Log

PO#: URG0216111 AFE#: D11009

Rig Number: 1	S. 5 T. 28 R. 17 E
API No. 15- 205-27903	Dpvouz; Wilson
Frfw! : : 2	Mpbdjpo;

Gas Tests:	
611	2/79
746	2/79
771	2/79
826	3/48
841	3/48
916	5/56
941	5/56
: 16	5/56
: 31	5/56
: 42	5/56
: 66	9/98
2116	9/98
2231	9/98
2246	9/98
2381	9/98
Dpn n f out ;!	
Tbsljok djohIA !	311#

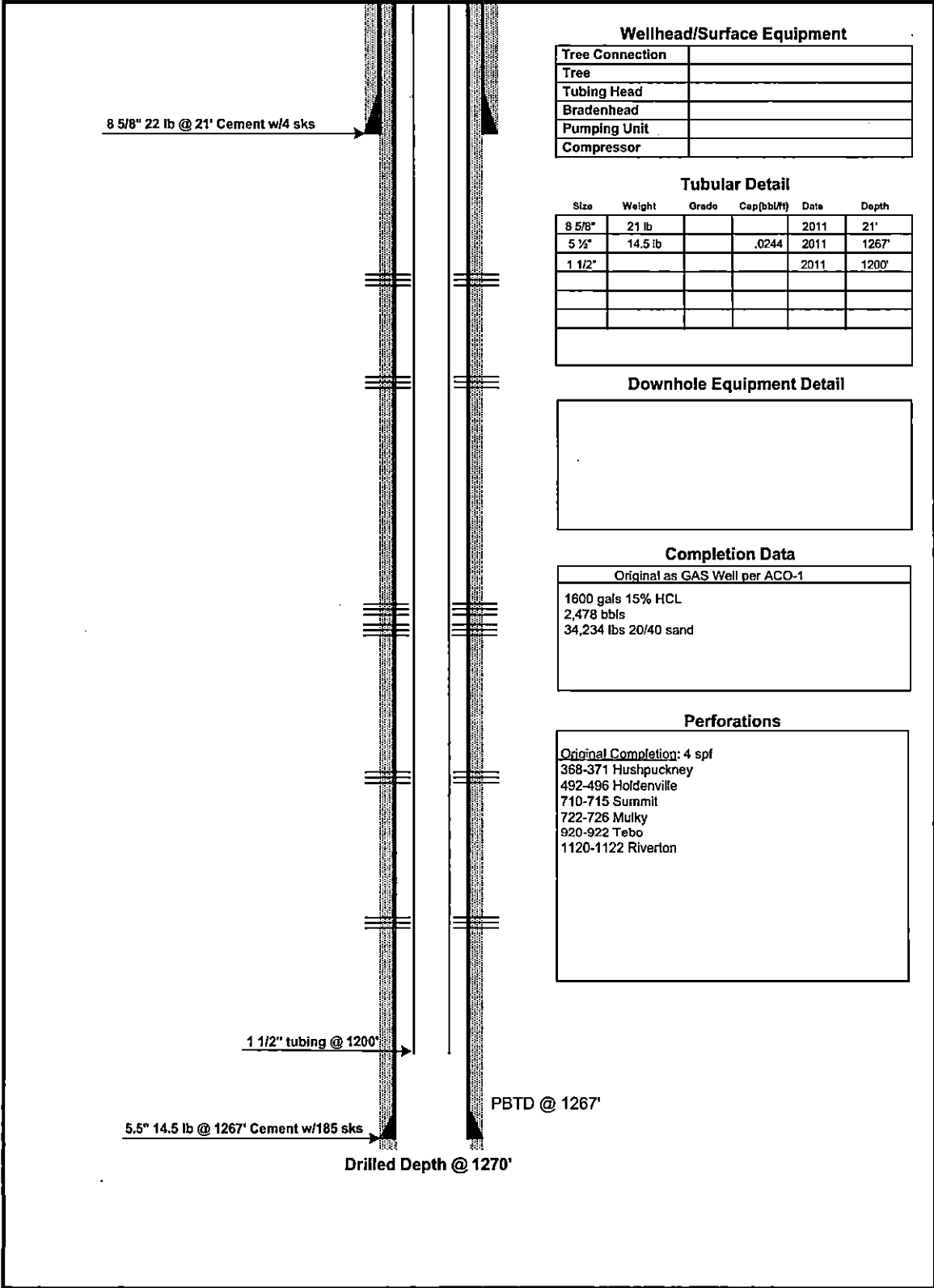
Pqf sbps!	OPTUSPDL	!!
Beesf tt ;!	321!Qbd IBwf ITf !3861	
	PI rni pn biDjuz-!PL!84213.6752	
X f mOp;	5-2	M bt f !Obn f ; Grady James A
Gppubhf !!Mpbdjpo;	2-: 91	g/lgn lu f ! OPSUI Mof
	2-: 91	g/lgn lu f ! X FTU Mof
EsjnphIDpousbdps;	McPherson Drilling LLC	
Tqvelebf ;	300122	Hf prphjt u! Lf o!Sf dpz
Ebf !Dpn qrfuf e;	3020122	UpbrfEf qu ;! 2381

Casing Record			Rig Time:	
Tj{f ! prf;	Tvgbdf ! 22#	Qspevdjpo! 8180#	i.jui 3pIA	! 281#2311#
Tj{f !Dbt joh;	9160#			
X f jhi u	31\$			
Tf ujoh!Ef qu ;	32	NDQ		
Uzqf !Df n f ou	Qpsuboe	!	ES.MFS;	Boez!Dpbt
Tbd t ;	5	NDQ		

Well Log

Formation	Top	Btm.	HRS.	Formation	Top	Btm.	Formation	Top	Btm.
t pjm	1	4		ijm f	638	652	t boet i brh	: 29	: 39
ijm f	4	35		ti brh	652	659	dpbm	: 39	: 41
ti brh	35	: 1		t boe	659	686	ti brh	: 41	: 47
ijm f	: 1	21:		dpbm	686	687	dpbm	: 47	: 49
t boet i brh	21:	355		t boet i brh	687	736	t boet i brh	: 49	: 61
ijm f	355	41:		ijm f	736	738	t boe!	: 61	: 96
ti brh	41:	426		dpbm	738	73:	dpbm	: 96	: 97
ijm f	426	428		ijm f	73:	765	t boe	: 97	2123
cradl ti brh	428	432		dpbm	765	768	t boet i brh	2123	21: 1
ti brh	432	453		ti brh	768	79:	t boe	21: 1	2212
ijm f	453	45:		pt x	79:	816	ti brh	2212	2226
ti brh	45:	486		t vn n ju	816	821	dpbm	2226	2228
ijm f	486	519		pt x	821	827	ti brh	2228	2237
cradl ti brh	519	521		n vrtz	827	831	n jtt !/Mn f	2237	2381
ijm f	521	531		ijm f	831	834			
ti brh	531	53:		ti brh	834	8: 8			
cradl ti brh	53:	543		dpbm	8: 8	8: :			
ti brh	543	563		ti brh	8: :	917			
t boe!	563	585		t boet i brh	917	929			
ti brh	585	594		dpbm	929	931			
cradl ti brh	594	594		ti brh	931	996			
ti brh	594	621		dpbm	996	997			
ijm f	621	626		t boet i brh	997	: 27			
ti brh	626	638		dpbm	: 27	: 29			

<b>WELL</b> : Grady, James A 5-2 <b>FIELD</b> : Cherokee Basin <b>STATE</b> : Kansas <b>COUNTY</b> : Wilson	<b>SPUD DATE</b> : 2/7/2011 <b>COMP. Date</b> : 2/22/2011 <b>API</b> : 15-205-27903-00-00
<b>LOCATION</b> : 5-28S-17E (SE, NW) <b>ELEVATION</b> : GL - 991'	



**Wellhead/Surface Equipment**

<b>Tree Connection</b>	
Tree	
Tubing Head	
Bradenhead	
Pumping Unit	
Compressor	

**Tubular Detail**

Size	Weight	Grade	Cap(bbl/ft)	Date	Depth
8 5/8"	21 lb			2011	21'
5 1/2"	14.5 lb		.0244	2011	1267'
1 1/2"				2011	1200'

**Downhole Equipment Detail**

**Completion Data**

*Original as GAS Well per ACO-1*

1600 gals 15% HCL  
 2,478 bbls  
 34,234 lbs 20/40 sand

**Perforations**

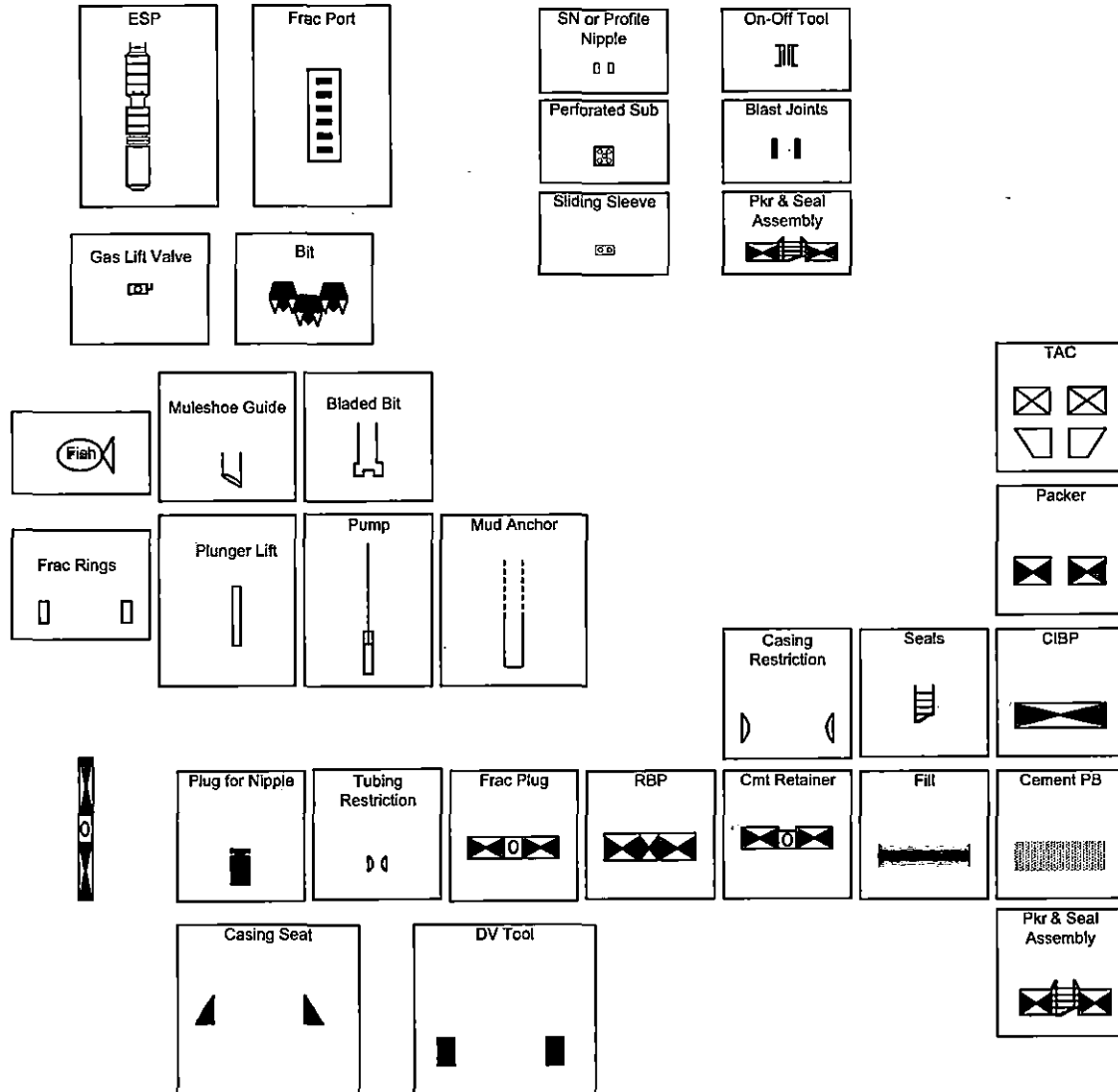
*Original Completion: 4 spf*  
 368-371 Hushpuckney  
 492-496 Holdenville  
 710-715 Summit  
 722-726 Mulky  
 920-922 Tebo  
 1120-1122 Riverton

# POSTROCK



## LEGEND

PostRock®





**Affidavit of Notice Served**

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

Well Name: GRADY, JAMES A 5-2 Legal Location: SENW S5-T28S-R17E

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 13<sup>th</sup> of AUGUST, 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)
POSTROCK MIDCONTINENT PRODUCTION, LLC	210 PARK AVENUE, SUITE 2750, OKLAHOMA CITY, OK 73102-5641

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

Signed this 14<sup>th</sup> day of AUGUST, 2012

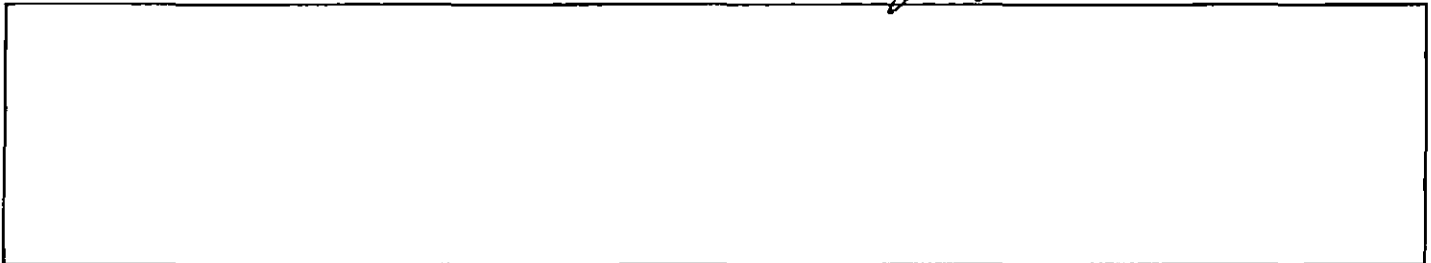
Jess L Morris  
Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 14<sup>th</sup> day of AUGUST, 2012



Jennifer R Beal  
Notary Public

My Commission Expires: July 20, 2016



GRADY, JAMES A 5-2 - APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

\_\_\_\_\_

\_\_\_\_\_

**Offset Operators, Unleased Mineral Owners and Landowners acreage**  
(Attach additional sheets if necessary)

Name:  
POSTROCK MIDCONTINENT PRODUCTION, LLC  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Legal Description of Leasehold:  
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.

Jess L Morris  
Applicant or Duly Authorized Agent

Subscribed and sworn before me this 14<sup>th</sup> day of AUGUST, 2012



Jennifer R Beal  
Notary Public  
My Commission Expires: July 20, 2016

\_\_\_\_\_

**AFFIDAVIT**

STATE OF KANSAS \  
- SS.  
County of Sedgwick /

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

made as aforesaid on the 11th of

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

13th day of August, 2012



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

Printer's Fee : \$139.60

**LEGAL PUBLICATION**  
PUBLISHED IN THE WICHITA EAGLE  
AUGUST 11, 2012 (320888)  
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  
Commining of Production in the  
Grady, James A-5-2 located in Wilson  
County, Kansas.  
TO: All Oil & Gas Producers, Unleased  
Mineral Interest Owners, Landowners,  
and all persons whom ever concerned.  
You, and each of you, are hereby notified  
that Postrock Midcontinent Production,  
LLC has filed an application to comminute  
the Hushpuckney, Moldenville, Summit,  
Mulky, Tebo, Riverton and Bartlesville  
production formations of the Grady, James  
A-5-2, located in the SE NW, 55-T285-R17E,  
Approximately 1980 FNL & 1980 FWL,  
Wilson County, Kansas.  
Any persons who object to or protest  
this application shall be required to file their  
objections or protest with the Conservation  
Division of the State Corporation Commission  
of the State of Kansas within fifteen (15)  
days from the date of this publication.  
These protests shall be filed pursuant to  
Commission regulations and must state  
specific reasons why granting the application  
may cause waste, violate correlative rights  
or pollute the natural resources of the State  
of Kansas.  
All persons interested or concerned shall  
take notice of the foregoing and shall govern  
themselves accordingly. All 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**



PROOF OF PUBLICATION

STATE OF KANSAS  
Wilson County - SS

JOSEPH S. and RITA M. RELPH, of lawful age, being duly sworn upon oath that they are the Owners and Publishers of the WILSON COUNTY CITIZEN:

THAT said newspaper has been published at least weekly fifty (50) times a year and has been so published for at least five years prior to the first publication of the attached notice:

THAT said newspaper is a general circulation on a daily, or weekly, or monthly, or yearly basis in;

WILSON COUNTY, KANSAS and is NOT a trade, religious or fraternal publication and has been PRINTED and PUBLISHED in Wilson County, Kansas.

THE ATTACHED was published on the following dates in a regular issue of said newspaper:

1st publication was made on the 13th day of August, 2012

2nd publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

3rd publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

4th publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

5th publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

6th publication was made on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

TOTAL PUBLICATION FEE: \$ 37.73

(Signed) Joseph S. Relph

Subscribed and sworn to before me, this 14th day of August, 2012

Rita M. Relph (Notary Public)

My commission expires Aug. 30, 2014

LEGAL NOTICES

(Published in the Wilson County Citizen on Monday, August 13, 2012.)

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

RE: In the Matter of Pestrook Midcontinent Production, LLC Application for Commingling of Production in the Grady, James A-5-2 located in Wilson County, Kansas.

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

You, and each of you, are hereby notified that Pestrook Midcontinent Production, LLC has filed an application to commingle the Huhpuckney, Holdenville, Summit, Mulky, Tebo, Riverton and Bartlesville producing formations at the Grady, James A-5-2, located in the SE NW, S5-T28S-R17E, Approximately 1980 FNL & 1980 FWL, Wilson County, Kansas.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of this publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why granting the application may cause waste, violate correlative rights or pollute the natural resources of the State of Kansas.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly. All person and/or companies wishing to protest this application are required to file a written protest with the Conservation Division of the Kansas Oil and Gas Commission.

Upon the receipt of any protest, the Commission will convene a hearing and protestants will be expected to enter an appearance either through proper legal counsel or as individuals, appearing on their own behalf.

Pestrook Midcontinent Production, LLC  
210 Park Avenue, Suite 2760  
Oklahoma City, Oklahoma 73102  
(405) 669-7704  
511 cpy.

*Handwritten:* PA 8/23/12 mr



Rita M. Relph  
NOTARY PUBLIC  
State of Kansas  
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/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 29 , 2012

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

RE: Approved Commingling CO081223  
Grady, James A. 5-2, Sec. 5-T28S-R17E, Wilson County  
API No. 15-205-27903-00-00

Dear Mr. Edwards:

Your Application for Commingling (ACO-4) for the above described well, received by the KCC on August 24, 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 CO081223 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