KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1048168

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: JENNIFER SMITH
Phone: (620) 431-9500
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 #:

8/2/2010	8/3/2010	08/25/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-099-24609-00-00
Spot Description:
__ - __ - NE - SW Sec. 17 Twp. 33 S. R. 18 ☐ 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: Labette
Lease Name: BUSSMAN, RALPH E Well #: 17-1
Field Name:
Producing Formation: MULTIPLE
Elevation: Ground: 805 Kelly Bushing: 0
Total Depth: 984 Plug Back Total Depth: 969
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: 969
feet depth to: 0 w/ 125 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:** Deanna Garrison **Date:** 12/14/2010

Side Two

1048168

Operator Name: PostRock Midcontinent Production LLC Lease Name: BUSSMAN, RALPH E Well #: 17-1

Sec. 17 Twp. 33 S. R. 18 ☐ East ☐ West County: Labette

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 ☐ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No
Electric Log Run ☐ Yes ☐ No
Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum
SEE ATTACHED

CASING RECORD ☐ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	22	21.1	A	4	
PRODUCTION	7.875	5.5	14.5	969.69	A	125	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	856.5-858.5/787.5-759.5	400gal 15%HCLw/ 50bbls 2%kcl water, 561bbls water w/ 2% KCL, Biocide, 10800# 20/40 sand	856.5-858.5/787.5-759.5
4	522-524/488-491/455-457	400gal 15%HCLw/ 60bbls 2%kcl water, 514bbls water w/ 2% KCL, Biocide, 1800# 20/40 sand	522-524/488-491/455-457
4	417-421/383-387	300gal 15%HCLw/ 32bbls 2%kcl water, 607bbls water w/ 2% KCL, Biocide, 6700# 20/40 sand	417-421/383-387

TUBING RECORD: Size:	Set At:	Packer At:	Liner Run:
1.5	944	N/A	☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.: 8/31/2010

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	24	19		

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	PostRock Midcontinent Production LLC
Well Name	BUSSMAN, RALPH E 17-1
Doc ID	1048168

All Electric Logs Run

CDL
DIL
NDL
TEMP

QUEST
Resource Corporation

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

231
D10012

TICKET NUMBER 6970
FIELD TICKET REF # _____
FOREMAN Joe Blanchard
SSI _____
API _____

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-4-10	Bussman Ralph 17-1	17	33	18	LB

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe Blanchard	2:00	7:00		904850		5	Joe Blanchard
Curt Collins		6:45		931300		4.75	Curt Collins
No driver				931585	931590		
Larry Reddick		7:00		903600		5	Larry Reddick
Darrell Cheney		6:45		903197		4.75	Darrell

JOB TYPE Longstring HOLE SIZE 7 7/8 HOLE DEPTH 983 CASING SIZE & WEIGHT 5½ 16#
CASING DEPTH 969.69 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
DISPLACEMENT 23.08 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4bpm

REMARKS:
washed 5 Ft 5½ in hole. Installed cement head RAN 4 SKS gel & 15 BBl dye & 125 SKS of cement to get dye to surface. Flushed Pump Pumped wiper to bottom & set float Shoe.

Cement to Surface

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
904850	5 hr	Foreman Pickup	
903197	4.75 hr	Cement Pump Truck	
903600	5 hr	Bulk Truck	
931385	4.75 hr	Transport Truck	
931590	4.75 hr	Transport Trailer	
	hr	80 Vac	
	969.69 Ft	Casing	
	5	Centralizers	
	1	Float Shoe	
	1	Wiper Plug	
	1	Frac Baffles 4½" W Small hole	
	105 SK	Portland Cement	
	25 SK	Gilsonite	
	1 SK	Flo-Seal	
	10 SK	Premium Gel	
	3 SK	Cal Chloride	
		KCL	
	7000 gal	City Water	

Ravin 4513

DATE: 08/10/2010 **McPherson Drilling**

Geology Brief - Data taken from Driller's Log & Compensated Density Log

WELL NAME:	Bussman, Ralph E.	**SECTION:**	17	**REPORT #:**		**SPUD DATE:**	8/2/2010	
WELL #:	17-1	**TWP:**	33S	**DEPTH:**	984			
FIELD:	Cherokee Basin	**RANGE:**	18E	**PBTD:**				
COUNTY:	Labette	**ELEVATION:**	805 Estimated	**FOOTAGE:**	1980	**FT FROM**	South	**SECTION LINE**
STATE:	Kansas	**API #:**	15-099-24609-0000		1980	**FT FROM**	West	**SECTION LINE**
							NE SW	

Fireside

ACTIVITY DESCRIPTION:

McPherson Drilling, Mac McPherson, drilled to TD 984 ft. on Tuesday, 08/03/2010 at 9:00 am.
Note: 10 foot rock samples collected for the Kansas Geological Survey (KGS) Rock Library, as required by the State of Kansas.

Surface Casing @ 21.1 ft.

Surface Casing Size: 8 5/8"

GAS SHOWS:	**Gas Measured**	**E-Log**	**COMMENTS:**
Mulberry Coal	**0** mcf/day @	**240-242** FT.	
Lexington Shale and Coal	**0** mcf/day @	**267-271** FT.	Gas test at 379 ft.
Summit Shale & Coal	**0** mcf/day @	**382-387** FT.	Gas test at 404 ft.
Mulky Shale & Coal	**9** mcf/day @	**415-420** FT.	9 mcf/day from this area. Gas test at 429 ft. & 454 ft.
Iron Post Coal	**9** mcf/day @	**455-457** FT.	
Bevier Coal	**9** mcf/day @	**469-471** FT.	
Verdigris Limestone	**9** mcf/day @	**482-484** FT.	**No Upper Baffle Set - not enough room.**
#1 Croweburg Coal & Shale	**9** mcf/day @	**484-491** FT.	
#2 Croweburg Coal & Shale	**9** mcf/day @	**498-500** FT.	Gas test at 504 ft.
Fleming Coal	**0** mcf/day @	**521-524** FT.	Gas test at 529 ft., 554 ft. & 604 ft.
Weir Coal	**0** mcf/day @	**623-625** FT.	
Bartlesville Sandstone - poor	**0** mcf/day @	**625-644** FT.	**Lower baffle set at 737.21 ft. Small hole.**
Rowe Coal	**12** mcf/day @	**787-789** FT.	3 mcf/day from this area. Gas test at 805 ft.
Neutral Coal	**12** mcf/day @	**Absent** FT.	
Riverton Coal	**12** mcf/day @	**855-858** FT.	
Mississippi Chat/Limestone	**52** mcf/day @	**Top at 866** FT.	40 mcf/day from this area. Gas test at 880 ft.
TD: 984 ft.	**52** mcf/day @		Gas test same at TD.

Note: Water coming into the hole from zones drilled affects Drilling & Gas Tests. These Wells may require a booster to reach target TD.
This water pressure may cause the Gas coming into the hole to be sporadic and/or appear non-existent, giving false readings of initial Gas measured.

Bottom of Production Pipe Tally Sheet: 969.69 ft. Production Casing Set by PostRock.
Bottom Logger: 983.60 ft. **Driller TD: 980 ft.**

Shoe & Centralizer Set on bottom joint & Centralizers Set every 5 joints to surface.

OTHER COMMENTS:
Information in this report was taken directly from the Drillers hand written notes, Geologists examination of rock samples with a hand lens & the Compensated Density Log only. Gas Tests reflect what the driller wrote down during drilling activities. All zones are picked on site with minimal log correlation. Detailed work with logs may provide more accurate data for reservoir analysis. Below Zones fyi only.

Pawnee LS / Pink	242-267
Oswego Limestone	344-382
Mineral Coal	544-546
Tebo Coal	589-593

CASING RECOMMENDATIONS: **Run 5.5 inch casing / Cement to surface**

On Site Supervisor/Representative: **Ken Recoy, Senior Geologist, AAPG CPG #5927** **Cell: 620-305-9900** krecoy@grcp.net
End of Drilling Report. Thank You!