KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1056308

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:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [x] 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 #:

01/07/2011	01/10/2011	01/21/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-099-24633-00-00
Spot Description:
NW - NW - SE - NW Sec. 31 Twp. 34 S. R. 18 [x] East [ ] West
1500 Feet from [x] North / [ ] South Line of Section
1430 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Labette
Lease Name: HOUGH, EILEEN Well #: 31-1
Field Name:
Producing Formation: MULTIPLE
Elevation: Ground: 827 Kelly Bushing: 0
Total Depth: 1034 Plug Back Total Depth: 1032
Amount of Surface Pipe Set and Cemented at: 25 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 1032
feet depth to: 0 w/ 140 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:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrisor **Date:** 05/23/2011

Side Two

1056308

Operator Name: PostRock Midcontinent Production LLC Lease Name: HOUGH, EILEEN Well #: 31-1

Sec. 31 Twp. 34 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	25	A	4	
PRODUCTION	7.875	5.5	14.5	1031.56	A	140	

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 *(Amount and Kind of Material Used)*	Depth
4	881-883	400GAL 15% HCL W/ 52BBLS 2% KCL WATER, 449BBLS W/ 2% KCL, BIOCIDE, MAXFLOW, 3171# 20/40	881-883
4	632-637	400GAL 15% HCL W/ 71BBLS 2% KCL WATER, 884BBLS W/ 2% KCL, BIOCIDE, MAXFLOW, 7700# 20/40	632-637
4	476-479/431-433	500GAL 15% HCL W/ 63BBLS 2% KCL WATER, 977BBLS W/ 2% KCL, BIOCIDE, MAXFLOW, 7700# 20/40	476-479/431-433
4	394-398	500GAL 15% HCL W/ 42BBLS 2% KCL WATER, 701BBLS W/ 2% KCL, BIOCIDE, MAXFLOW, 15100# 20/4	394-398

TUBING RECORD: Size: 1.5 Set At: 903 Packer At:

Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 2/23/2011

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	22	24		

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	HOUGH, EILEEN 31-1
Doc ID	1056308

All Electric Logs Run

CDL
DIL
NDL
TEMP

Called Beckie @ KCC
10:30 am

QUEST
Resource Corporation

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

~~D10100~~ AFE D10094

TICKET NUMBER ✓ 7004
FIELD TICKET REF # _____
FOREMAN Joe Blanchard
SSI 629230
API 15-099-24633

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-14-11	Hough Eileen 31-1	31	34	18	LB

FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe Blanchard	7:00	12:30		904850		5.5	Joe Blanchard
John Walker	7:00	12:30		931300	932895	5.5	John Walker
Wes Gahman	7:00	12:30		931585	932900	5.5	Wes Gahman
Otto G. Powers	7:00	12:30		903197		5.5	Otto G. Powers
Matt NAFF	7:00	12:00		903600		5	Matt Naff
Nathan Gahman	7:00	12:30		903206		5.5	Nathan Gahman

JOB TYPE Longstring HOLE SIZE 7 7/8 HOLE DEPTH 1034 CASING SIZE & WEIGHT 5 1/2 16#
CASING DEPTH 1031.56 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
DISPLACEMENT 24.56 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4bpm

REMARKS:

washed 60 Ft 5 1/2 in hole Swept 200 LBS gel. Installed Cementhead RAN 16 BBl dye & 140 SKS of cement TO get dye to Surface. Flush Pump. Pumped wiper plug to bottom & set float shoe.

Started Casing 9:30 Started Cement 11:30 Left location 12:30

Cement to surface

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
904850	5.5 hr	Foreman Pickup	
903197	5.5 hr	Cement Pump Truck	
903600	5 hr	Bulk Truck	
		Transport Truck	
		Transport Trailer	
		80 Vac	
	1031.56	Casing Ft 5 1/2	
	6	Centralizers	
	1	Float Shoe	
	1	Wiper Plug	
	2	Frac Baffles 4" & 4 1/2"	
	105 SK	Portland Cement	
	25 SK	Gilsonite	
	2 SK	Flo-Seal	
	12 SK	Premium Gel	
	5 SK	Cal Chloride	
	1	~~KCL~~ 5 1/2 Basket	
	7000 gal	City Water	
931310	5.5 hr	Casing tractor	
932895	5.5 hr	Casing trailor	

Ravin 4513

TD'd. McPherson Drilling Monday 01/10/2011 @ 11:30 AM.

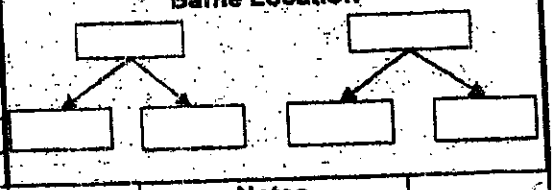
API # 15-099-24633

Pipe #	Length	Running Total	Baffle Location
1	36.84	36.84	Cmnt
2	36.39	73.23	
3	36.62	109.85	Basket
4	36.77	146.62	
5	36.57	183.19	109 ft
6	36.88	220.07	
7	36.47	256.54	146 ft.
8	36.39	292.93	
9	37.12	330.05	
10	35.50	365.55	
11	36.39	401.94	
12	37.18	439.12	
13	36.39	475.51	
14	36.42	511.93	
15	35.27	547.20	
(16)	36.80	584.00	
17	36.27	620.27	
18	36.40	656.67	
19	36.78	693.45	
20	36.75	730.20	
21	36.15	766.35	
(22)	36.75	803.10	
23	36.93	840.03	
24	36.42	876.45	
25	35.08	911.53	
26	36.85	948.38	
27	36.86	985.24	
(28)	36.32	1021.56	
(SUB)	10.00	1031.56	Tally Bottom.

Casing Tally Sheet

Location: Eileen Hough 31-1
SSI# 629230
Date: 1/13/10
Well TD: 1032' D10094
345-18E Labette Co., KS.

Baffle Location



Notes

Set upper Baffle @ 547.20 ft. Big Hole.
Set lower Baffle @ 766.35 ft. Small Hole.

Use all 28 joints + the 10 ft. Sub.

Be Safe! Watch for Hypothermia.

Post Rock

Miss Top = 897 ft.
Tally Bottom = 1031.56 ft.
Drillers TD = 1032 ft.
Log Bottom = 1034 ft.

(TK) Kelly
Sr. Geologist.
620 305 9900
Cell.

McPherson Drilling LLC Drillers Log

PO# LRG010511-7 **AFE# D10094**

Rig Number:	**1**		**S. 31**	**T. 34**	**R.18 E**
API No. 15-	**099-24633**		County:	**LB**	
	Elev.	827	Location:		

Operator:	POSTROCK				
Address:	210 Park Ave Ste 2750				
	Oklahoma City, OK 73102-5641				
Well No:	**31-1**		Lease Name:	**HOUGH EILEEN**	
Footage Location:		1,500	ft. from the	NORTH	Line
		1,430	ft. from the	WEST	Line
Drilling Contractor:	**McPherson Drilling LLC**				
Spud date:	1/7/2011		Geologist:	Ken Recoy	
Date Completed:	1/10/2011		Total Depth:	1032	

Casing Record

	Surface	Production
Size Hole:	11"	7 7/8"
Size Casing:	8 5/8"	
Weight:	20#	
Setting Depth:	25	MCP
Type Cement:	Portland	
Sacks:	4	MCP

Rig Time:

ODOR @ 492

H20 @ 894" 1004"

DRILLER: Andy Coats

Gas Tests:

229	0
360	2.76
404	2.76
435	2.76
455	2.76
505	6.01
530	6.01
605	6.01
640	6.01
800	7.37
820	7.37
891	7.37
904	5.64
920	5.64
1032	5.64

Comments:

Start injecting @ 904

Well Log

Formation	Top	Btm.	HRS.	Formation	Top	Btm.	Formation	Top	Btm.
SOIL	0	2		SHALE	474	497	SHALE	811	821
LIME	2	9		BLACKSHALE	497	501	BLACKSHALE	821	822
SHALE	9	46		SHALE	501	505	SHALE	822	833
COAL	46	48		COAL	505	508	BLACKSHALE	833	834
LIME	48	52		BLACKSHALE	508	510	SHALE	834	876
SAND	52	54		SANDSHALE	510	578	COAL	876	878
LIME	54	62		BLACKSHALE	578	580	SHALE	878	890
SHALE	62	196		SHALE	580	605	COAL	890	892
LIME	196	224		SANDSHALE	605	628	SHALE	892	894
COAL	224	227		COAL	628	632	MISS.LIME	894	1032
SHALE	227	312		SHALE	632	656			
COAL	312	354		BLACKSHALE	656	657			
SUMIT	354	358		SHALE	657	665			
LIME	358	390		COAL	665	667			
MULKY	390	395		SHALE	667	740			
LIME	395	399		COAL	740	742			
SHALE	399	429		SHALE	742	748			
COAL	429	431		BLACKSHALE	748	751			
SHALE	431	448		SHALE	751	761			
LIME	448	449		BLACKSHALE	761	762			
COAL	449	450		SHALE	762	781			
SANDSHALE	450	470		BLACKSHALE	781	782			
LIME	470	472		SHALE	782	809			
COAL	472	474		COAL	809	811			