

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input 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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	SAVANNAH 2
Doc ID	1533768

All Electric Logs Run

Porosity
Dual Induction
Micro
Sonic



Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Savannah #2
API: 15-151-22515
Location: W2 - SW - NW of Sec 34 29s 15w
License Number: 33936
Spud Date: 8/14/2020
Surface Coordinates: Lat: 37.47946 Long: -98.95630
Bottom Hole: Vertical Wellbore, (1) Degree Dev @ 4635'
Ground Elevation (ft): 1993' K.B. Elevation (ft): 2004'
Logged Interval (ft): 3600' @ RTD: 4830' Total Depth (ft): 4830'
Formation: Ordovician
Type of Drilling Fluid: Mud Co. Chemical Drispac. Displaced Mud 2847'-2900'
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Griffin Management, LLC
Address: P.O. Box 347
Pratt, KS 67124-0347

GEOLOGIST

Name: Eli J. Felts
Company: Griffin Management, LLC
Address: ejfelts47@gmail.com
316.204.5059

Formation Tops

Table with 2 columns: SAMPLE TOPS and LOG TOPS. Lists formation names and elevations for both sample and log tops.

Drilling Report

Murfin Drilling, Rig #114
Tool Pusher: Rick Hilgers/Johnny Nicodemus
Cell # 620-639-1843
Pason System Used for ROP & Gas Data

7 AM Reports

8/14/2020 Spud @ 4PM
8/15/2020 WOC
Drilled out plug @ 7:15 AM
Displace Drilling Fluid @ 2847'-2900'
8/16/2020 Call Depth Reached prior to Morning report (~4:30AM)
Drilling @ 3600'
Geologist on location @ ~10:00 AM
8/17/2020 Drilling @ 4560'
Bit Trip @ 4635'
Swapped PDC for Button Bit
8/18/2020 Drilling @ 4775'. RTD @ 10:30 AM
CTCH for logs 90' and started out ~12PM. On Bank @ 2:20 PM
Logs ran from ~2:20 to 7:30 PM.
Left Location @ 7:45 PM.
8/19/2020 Running Casing

Problems

PDC Bit ran from under surface (264') to 4635'. Sample Quality decline drastically ~4550'(near Cherokee). ROP was dicey through Cherokee section, however, proceeded to drill through to Viola. Samples through this section were abnormally shaley. Drilling continued to 4635' when ROP could no longer be deemed adequate. Swapped to "button bit" from 4635' through RTD @ 4830'.

Pipe Setting

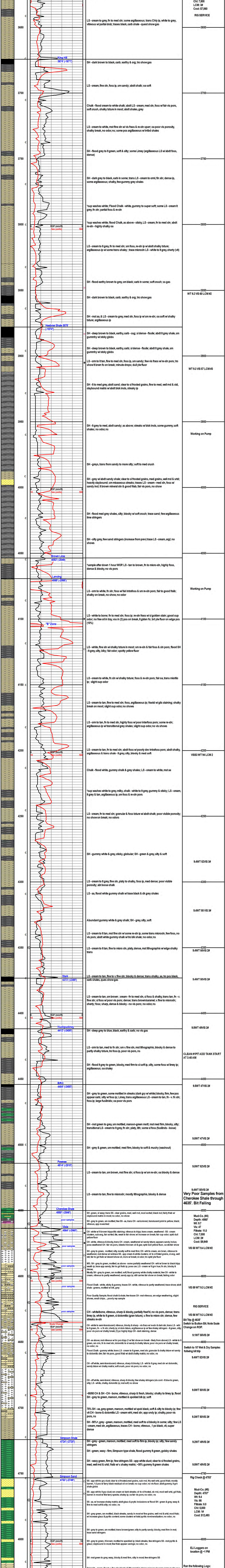
8.625" (23#) Surface @ 264' KB
4.5" (10.5#) Production @ 4825'KB

ROCK TYPES

Legend for rock types including Anhy, Bent, Brecc, Cht, Gyp, Clayst, Coal, Congl, Dol-cream, Dol, Igne, Granite 2, Granite, Lmst tan, Lmst, Meta, Marl, Quartz, Salt, Shale 2, Shale 1, Shale 3, Shol, Sst, and Till.

REFERENCE WELLS LOG TOPS

Table listing reference wells and their log tops for various formations like King Hill, Pawnee, Viola, Simpson, etc.



Run the following Logs: CNL/CDL W/PE, Dual-Induction Micro-Resistivity Sonic, Finish Logging @ 7:30 PM 8/18/2020

Griffin Management LLC

Savannah 2

8/19/20

Started running casing at 5:30 am

Run 118jts. 4 ½" 11.6#. Total 4826.1

PBTD 4803.85'. Circulated 1 hr

RU QUALITY well service and cemented

with 150 sks Pro C 2% Gel, 10% Salt, 5#

Koseal. Plug down at 10:05 am

Plug rathole with 30 sks and mousehole

with 20 sks

8/24/20

RU Allaince Well Service

8/25/20. Tubing 153 (4802')

RU Excel Wireline. Run GR:CBL and

perforated 4560'- 4590'. 2 spft.

PU packer. Pick up 146 jts. RU Pro Stim and

spot acid at 4594'. Pulled 3 jts and set

packer at 4501' (143). Breakdown 1000#

Avg Treating pressure 1230# at 3.55 bpm

ISIP 350#. 15 mins

Used 2500 gals blended acid and flushed with 19 bbls KCL water. Dropped 80 balls during acid. Flowed back 5 bbls

RU to swab. IFL surface

1st hr. FL 2200'. Rec 20 bbls Sli oil

2nd hr. FL 4100'. Rec 15 bbls. 40% OC

1st swab off bottom. Rec 1250'. 45% OC

2nd swab off bottom Rec 550'. 44% OC

Wait 15 mins. Rec. 650'. 50% OC

Recovered 4 bbls

Open bypass and swabbed down

Wait 15 mins. Rec 500'. 35% OC

Wait 15 mins. Rec 400'. 52% OC

Recovered 2 bbls Total recovered 41 bbls of 78 bbls used. Shut in

8/26/20

TP 105#. IFL 2500'

1st swab recovered 1300' oil

Swabbed down and recovered 8 bbls

Wait 20 mins recovered 125'. 37% OC
Released packer and swabbed dry
Laid down tubing. Waiting on frack 9/8/20
Moved to Savannah 3

9/8/20

RU Gore N2. Fracked with 625 bbls slick
water, 39,847# 20/40 mesh sand, 6,148#
Restin coat 20/40 mesh sand and 1,227,000
scf N2. Avg 20 bpm @ 1783#
ISIP 1729#. 15 mins. 1624#. Shut in

9/9/20

CP 1900#

Open up at 7:30 am on 16/64" choke
Fluid to surface at 9 am. CP 1400#

1st hr. CP 1200# rec 17 bbls. No oil

Open to 20/64" choke

2nd hr CP 975#. Rec 37 bbls. Sli oil

3rd hr. CP 850#. Rec 35.5 bbls. 1% OC

4th hr. CP 800#. Rec 37.5 bbls. 1% OC

5th hr. CP 700#. Rec 40 bbls. 3% OC

6th hr. CP 590#. Rec 32.5 bbls. 6% OC
7th hr. CP 500#. Rec 32.5 bbls. 7 ½% OC
8th hr. CP 410#. Rec 25 bbls. 10% OC
9th hr. CP 320#. Rec 25 bbls. 9 ½% OC
Total flowed back today 280 bbls of 625

bbls used

Left open to tanks on 17/64" choke

9/10/20

4:30 am

CP 120# on 17/64" choke

Flowed 105 bbls overnight

Open to 21/64"

30 mins

CP 155#. Flowed 10 bbls. 18% OC

Set choke on 20/64" choke

3:30 pm

Blowing gas. No fluid

Flowed 85 bbls in 11 hrs

Total frack back 480 bbls

9/11/20

RU Allaince Well. PU casing jars and depth meter. Run in hole and tagged sand at 4704'. RU to pick up tubing on racks
PU 60 jts Shut down and left well open to tank for weekend.

9/14/20

Finished picking up tubing.

Tubing string as follows

- 1) 2 3/8" mud anchor. 15.01'
- 1) 2 3/8". Seating nipple. 1.10'
- 140). Jts 2 3/8" tubing 4534.67'

Landed tubing at 4540.78'

RU to pick up rods. Run in pump and rods as follows

- 1) 2" x 1 1/2" x 14' RWB insert
- 1) 2' 3/4" pony rods
- 180). 3/4" rods
- 1). 8' 3/4 pony Rod
- 1). 4' 3/4" pony rod

1). 22' polished Rod

Set pumping unit and started pumping at
8:30 pm

QUALITY WELL SERVICE, INC.

7468

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	8.14.20	Sec.	34	Twp.	29S	Range	15W	County	Pratt	State	Ks	On Location		Finish	
Lease	SAVANNAH			Well No.	12			Location	Hwy 591 Km Rd State 10"						
Contractor					Owner	Z. Z. E. SCOTT & GIBBS S.W. & D.									
Type Job	SURFACE				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4		T.D.	269		Charge To	Gulf								
Csg.	35/8 24"		Depth	269		Street									
Tbg. Size			Depth			City	State								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	25		Shoe Joint	25		Cement Amount Ordered	275 sl Common								
Meas Line			Displace	15.2		2 1/2 GEL 3 1/2 CC 1/2" PS									
EQUIPMENT															
Pumptrk	8	No.			Common	265 sl									
Bulktrk	15	No.			Poz. Mix										
Bulktrk		No.			Gel.	200"									
Pickup		No.			Calcium	747"									
JOB SERVICES & REMARKS						Hulls									
Rat Hole						Salt									
Mouse Hole						Flowseal	133								
Centralizers						Kol-Seal									
Baskets						Mud CLR 48									
D/V or Port Collar						CFL-117 or CD110 CAF 38									
Run 60' 35/8 24" Csg set 269						Sand									
START Csg Csg on Bottom						Handling	285								
Hook up to Csg & Break Circ w/121G						Mileage	51 7125								
START Pumping 12 Bbls HR						FLOAT EQUIPMENT									
START Mix Pump 265 sl						Guide Shoe	4" M 1 EA								
Common 2 1/2 GEL 3 1/2 CC 1/2" PS @ 14.0/gal						Centralizer	35/8 WOODEN PLUG 1 EA								
START DRUG RELEASE 870 WOODEN PLUG						Baskets									
START DIS						AFU Inserts									
Plug down 15.2 Bbls						Float Shoe									
Close Valve on Csg 150"						Latch Down									
Good Circ then JDS						SERVICE SIGN	1 EA								
Circ OK TO RT						LMV	25								
						Pumptrk Charge	SURFACE								
						Mileage	50								
THANK YOU PLEASE CALL AGAIN TODD MIKE MATT															
X Signature						Tax									
						Discount									
						Total Charge									

QUALITY WELL SERVICE, INC.

7473

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	8-19-20	Sec.	34	Twp.	29S	Range	15W	County	PRATT	State	KI	On Location	Finish
Lease	SAVANNAH		Well No.	2		Location							
Contractor	MORTIN #114							Owner					
Type Job	4 1/2 LS							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size	7 7/8		T.D.	4830'		Charge To							
Csg.	4 1/2 11.6		Depth	4826.61		GRIFFIN							
Tbg. Size	Depth							Street					
Tool	Depth							City State					
Cement Left in Csg.	22.76		Shoe Joint	22.76		The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line	Displace		74.46		Cement Amount Ordered 200 SK PRO L 2 1/2 TEL								
EQUIPMENT													
Pumptrk	8	No.				10/90 H 5 1/8 KOSCAL .6' CABA 25' C41P 1/4" A							
Bulktrk	7	No.				Common 200							
Bulktrk		No.				Poz. Mix							
Pickup		No.				Gel. 376"							
JOB SERVICES & REMARKS													
Rat Hole	354							Hulls					
Mouse Hole	2054							Salt					
Centralizers	1-2-3-4-5-6-7							Flowseal 30"					
Baskets								Kol-Seal 1000#					
D/V or Port Collar								Mud CLR 48 500 GAL					
Run 11 Bot's 4 1/2 11.6 / csg SETD							CFL-117 or CD110 CAF 38 C16A 1120'						
START CSG CSG ON Bottom TAG							Sand C-1 7 GAL C41P 47'						
Hook up to CSG Break circ w/ rig							Handling 246						
DEEP Ball circ w/ rig							Mileage 25 / 6150						
4 1/2 FLOAT EQUIPMENT													
START Pumping 12 1/2 H2O 12 3/4 MF 12 3/4 H2O							Guide Shoe H & M 1 EA						
START Mix Pump 50 SK P16 R-M H2O							Centralizer 7 EA						
START Mix Pump 150 SK J CSG 14.8 / GAL							Baskets						
SHOT DOWN Wash up to Release 4 1/2 L D							AEU Inserts						
START disp w/ 2% KLL							Float Shoe 1 EA						
Lift psi 64 at 600'							Latch Down 1 EA						
Plug down 75.5 at 1100'							LMI 25						
PS up csg 1500'							SERVICE SWO 1 EA						
Release HELD 1/4 Ball Back							Pumptrk Charge 1 C						
Gom circ thru to 3							Mileage 50						
THANK YOU													
PLEASE CALL AGAIN TOM MIKE MATT													
X Signature <i>[Signature]</i>													
											Tax		
											Discount		
											Total Charge		