

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

Well Name: Mary #4B
API: 15-151-22517
Location: NE-SE-SE-1W of Sec 33 29s 15w
License Number: 33936
Spud Date: 8/20/2020
Surface Coordinates: Lat: 37.478683 Long: -98.967271
Bottom Hole Coordinates: Same as surface coordinates
Ground Elevation (ft): 1960' K.B. Elevation (ft): 1971'
Logged Interval (ft): 3600' To: 4800' Total Depth (ft): 4800'
Formation: Ordovician
Type of Drilling Fluid: Mud Co. Chemical Drispac
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 their corresponding elevations in feet.

Drilling Report

Murfen Drilling, Rig #114
Tool Pusher: Ricky Hilgers
Cell # 785-769-4733 or 785-743-8492
8/20/2020 Spud @ 5 pm
8/21/2020 WOC @ 265'
8/22/2020 Drilling @ 1920'
8/23/2020 TOOH @ 2829' (bit trip)
8/24/2020 Drilling @ 3400' - Geo Called Out
8/25/2020 Drilling @ 3955'
8/26/2020 CFS @ 4560'
RTD @ 2:15 PM
Logged Well
8/27/2020 1:30 AM - Finish Logging - Geo left location
LDDC @ 4800'
Run Casing
8/28/2020 Done

Problems

Bit Trip @ 2829' (worn out - change from PDC to button- no PDC available)
Bit Trip @ 4063' (drilling slow w/ button - change to PDC)
Short Trip @ 4800' (20 stands) pulled tight (3 hours)

Pipe Setting

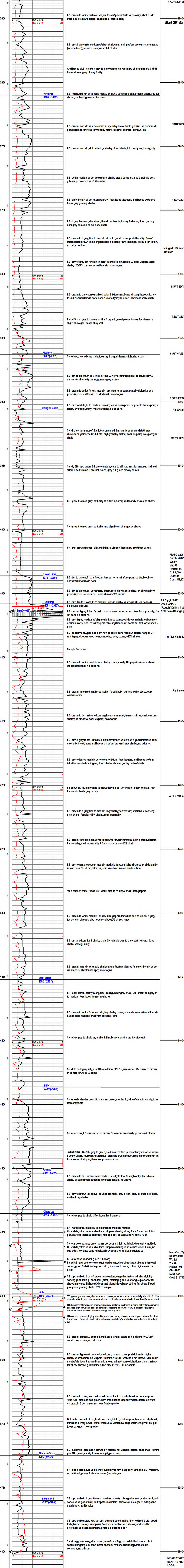
8.625" (23#) Surface @ 265'
120 lbs 5.5" (15.5#) Production @ 4773'

ROCK TYPES

Legend for rock types including Anhy, Bent, Brecc, Cht, Cylst, Coal, Congl, Dol-cream, Dol, Gyp, Igne, Granite 2, Granite, Lmst tan, Lmst, Meta, Mrlst, Quartz, Salt, Shale 1, Shale 2, Shol, Shgy, Siltst, Ss, Tiltl.

REFERENCE WELLS LOG TOPS

Table listing reference wells and their log tops for various formations like King Hill, Heebner, Brown Lme, Lanning, Stark, BKC, Pawnee, Cherokee, Viola, Simpson, and RTD.



Finish Logging @ 1:30 AM 8/27/2020
No Cores/DSTs on this test

Griffin Management LLC

MARY 4B

8/27/20

Started running casing at 10:20 am

Ran 120 jts 5 ½" 15.5# casing total 4773'

PBTD 4763'. QUALITY cemented with 150 sks

Pro C (griffin blend) 2% gel, 10% salt 5#

Koseal. Plug down at 2:45 pm.

Plug rat house with 30 sks and mousehole

with 20 sks cement

9/1/20

Spot in rig late

9/2/20

RU Allaince Well Service

RU Log Tech. Run CBL/GR LOG snd perforated

4571-4583'. 2 spft. PU packer and 146 jts 2

7/8". Set packer at 4554'. Swabbed down and

waited 15 mins no entry. SI

9/3/20

TP 30#

Rig down for 4 hours

Made 1 swab and recovered 900' oil

RU Pro Stim and spotted acid at 4586'.

Pulled 1 jt and set packer at 4554'.

Breakdown 1000#

Treated 3 bpm at 1000#

ISIP 510#. 15 mins. Vacuum

Used 1000 gals Cherokee blended acid and 26

bbls KCL water flush

RU to swab. IFL 100'

1st hr. FL 4000'. Rec 26 bbls. 4% OC

2nd hr. FL 4500'. Rec. 3 bbls 40% OC

3rd hr. FL 4500'. Rec. 2 bbls. 100% OC

Open bypass and swabbed down

4th hr. FL 4500'. Rec 2 ½ bbls 40% OC

Total recovered 33.5 bbls Shut in well.

9/4/20

TP 40#. IFL 3600'

1st swab recovered 900' oil/100' water

4 bbls

2nd swab no recovery

Wait 45 mins recovered 75' 100% OC

Released packer and swabbed dry.

TOOH with packer and tubing. Shut in

Frack on 9/8/20

9/8/20

RU Gore N2. Fracked with 632 bbls slick

water, 39,759# 20/40 mesh sand, 6,610#

resin coat 20/40 mesh sand and 1,218,000 scf

N2. Avg 20 bpm at 2045#

ISIP 2057#. 15 mins. 1916#

Shut in.

9/9/20

CP 1550#

Fluid to surface at 9:00 am. CP 650#

1st hr. CP 620#. Rec 27.5 bbls Sli oil

2nd hr. CP 550#. Rec 22.5 bbls Sli oil

3rd hr. CP 525#. Rec 25 bbls. 1% OC

4th hr. CP 420#. Rec 25 bbls. 7 ½% OC

5th hr. CP 400#. Rec 27.5 bbls. 15% OC

6th hr. CP 250#. Rec 20 bbls. 16% OC

7th hr. CP 200#. Rec 20 bbls. 21% OC

8th hr. CP 150#. Rec 15 bbls. 21% OC

Total flowed back today 207.5 bbls of 632
bbls used. Left open to tanks on 19/64" choke
9/10/20

CP 0#. Blowing gas

Flowed 30 bbls overnight

TIH with tubing. Tagged sand at 4585'

TOOH. PU hydrostatic bailer. TIH

Bailed 90'. TOOH. Dump bailer. TIH with
tubing as follows

1) 2 7/8" mud anchor. 15.12'

1) 2 7/8" seating nipple. 1.10'

145) Jts. 2 7/8" tubing. 4538.00'

Landed tubing at 4554.22'. Left open to tanks
9/11/20

Prep rods. Run in pump and rods as follows

1) 2 1/2" x 2" x 14' RWB insert

1) 2'. 7/8" pony rod

9). 7/8" rods

- 100). $\frac{3}{4}$ " rods
- 70) $\frac{7}{8}$ " rods
- 2). 4' $\frac{7}{8}$ " pony rods
- 1). 6' $\frac{7}{8}$ " pony rod
- 1). 8' $\frac{7}{8}$ " pony rod
- 1). 22' polished rod

Set pumping unit and started pumping at
3:30 pm

QUALITY WELL SERVICE, INC.

7479

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	Sec.	Twp.	Range	County	State	On Location	Finish
8-27-20	33	29S	15W	Pratt	Ks		
Lease MALY	Well No. B-4		Location HWY 54 & 140 th Rd S to 110 th Rd				
Contractor Martin Dalg RIG #114				Owner I E to 130 th V4 S & E. into			
Type Job 5 1/2 LS	L		To Quality Well Service, Inc.				
Hole Size 7 7/8	T.D. 4796'		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Csg. 5 1/2	Depth 4773.13		Charge To Griffin				
Tbg. Size	Depth		Street				
Tool	Depth		City		State		
Cement Left in Csg. 10.53	Shoe Joint 10.53		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 113.35		Cement Amount Ordered 200# ProC 2/62 10/SALT				
EQUIPMENT				5 1/4 KOSAL .6% C16A .25% C4IP .25% P			
Pumptrk 3 No.			Common 200%				
Bulktrk 15 No.			Poz. Mix				
Bulktrk No.			Gel. 376"				
Pickup No.			Calcium				
JOB SERVICES & REMARKS				Hulls			
Rat Hole 30 5/8			Salt 1101"				
Mouse Hole 20 5/8			Flowseal 50				
Centralizers 1-2-3-4-5-6-7			Kol-Seal 1000'				
Baskets			Mud CLR 48 500 GAL				
D/V or Port Collar			CFL-117 or CD110 CAF 38 C16A 112.8'				
Don 120# 5 1/2 CS6 SET @ 4773.13			Sand CG-1 9 GAL C4IP 47"				
START CS6 CS6 ON BOTTOM ! TAG			Handling 246				
Hook up to CS6 BREAK CIRC W/ LEIG FROM BALL & START PUMPING 10' 50S H 1200 W/ 1500 H			Mileage 25 / 6150				
START PUMPING 10' 50S H 1200 W/ 1500 H			5 1/2 FLOAT EQUIPMENT				
START MIX: Pump 50SC PUG 2-M HOLES			Guide Shoe 11' M 1 EA				
START MIX: Pump 150SC & CS6 @ 14.8"/ENL			Centralizer 7 EA				
SHUT DOWN WASH UNTIL RELEASE 5 1/2 LO			Baskets				
START DISP W/ 2% KCL			AFU Inserts				
LIFT PS: 916 OUT 600"			Float Shoe				
PUG DOWNS 113.5 1200"			Latch Down 1 EA				
DISP ON CS6 1500"			SERVICE Spv 1 EA				
RELEASE: HELD 1/2 BH BACK			LMV 25				
GOOD CIRC THRU STOP			Pumptrk Charge LS				
THANK YOU			Mileage 50				
PLEASE CALL AGAIN							
TOOD MILE MATT							
X Signature <i>[Signature]</i>							
							Tax
							Discount
							Total Charge

QUALITY WELL SERVICE, INC.

7476

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Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	8-21-20	Sec.	33	Twp.	29S	Range	15W	County	Pratt	State	Ks	On Location		Finish	
Lease	MARY	Well No.	B-4	Location Hwy 54: 140 th Rd S to 110 th Rd											
Contractor	MURFIN DRUG RIG #114	Owner E to 130 th Rd 1/4 S E 110													
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.	265'	Charge To Griffith											
Csg.	8 5/8 24"	Depth	263'	Street											
Tbg. Size		Depth		City											
Tool		Depth		State											
Cement Left in Csg.	25	Shoe Joint	25	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace	15.2	Cement Amount Ordered 250 SC Common											
EQUIPMENT													2 1/2" CEL 3 1/2" CL 1/2" PS		
Pumptrk	8	No.		Common 250 SC											
Bulktrk	10	No.		Poz. Mix											
Bulktrk		No.		Gel. 470"											
Pickup		No.		Calcium 705"											
JOB SERVICES & REMARKS													Hulls		
Rat Hole													Salt		
Mouse Hole													Flowseal 125"		
Centralizers													Kol-Seal		
Baskets													Mud CLR 48		
D/V or Port Collar													CFL-117 or CD110 CAF 38		
Run 6 1/2" 8 5/8 24" Csg SET 263'													Sand		
START Csg Csg ON Bottom													Handling 269		
Hook up to Csg & BREAK CIRZ W/ RIG													Mileage 25 / 6725		
START Pumping 10 Bbls H2O													8 5/8 FLOAT EQUIPMENT		
START Mix! Pump 250 SC @ 14.8 gal													Guide Shoe HIM 1 EA		
SHUT DOWN RELEASE 8 5/8 WARDEN PUL													Centralizer 8 5/8 W/P 1 EA		
START DISO													Baskets		
Pump down 15.2 Bbls 150'													AFU Inserts		
CLOSE VALVE ON Csg													Float Shoe		
Good CIRZ thru JOB													Latch Down		
CIRZ CUT TO RT													SERVICE Supv 1 EA		
THANK YOU													LMV 25		
PLEASE CALL AGAIN													Pumptrk Charge SURFACE		
TODD MIKE MATT													Mileage 50		
Signature <i>[Signature]</i>													Tax		
													Discount		
													Total Charge		