KOLAR Document ID: 1755421

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 # 33936
Name: Griffin, Charles N.
Address 1: 126 S MAIN ST
Address 2:
City: PRATT State: KS Zip: 67124 + 2711
Contact Person: Bryant Theis
Phone: (620) 672-9700
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Eli J. Felts
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 #:

10/26/2023 Spud Date or Recompletion Date
10/31/2023 Date Reached TD
11/8/2023 Completion Date or Recompletion Date

API No.: 15-151-22577-00-00
Spot Description:
_ - SE - NE - SW Sec. 26 Twp. 29 S. R. 13 ☐ East ☑ West
1650 Feet from ☐ North / ☑ South Line of Section
2310 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pratt
Lease Name: RETA Well #: #1
Field Name:
Producing Formation: Ordovician
Elevation: Ground: 1871 Kelly Bushing: 1876
Total Vertical Depth: 4734 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 386 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: 47000 ppm Fluid volume: 500 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

☐ **Confidentiality Requested**
Date: 02/20/2024
☐ **Confidential Release Date:** 02/19/2026
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Todd Bryant **Date:** 03/04/2024

Operator Name: Griffin, Charles N. Lease Name: RETA Well #: #1

Sec. 26 Twp. 29 S. R. 13 ☐ East ☑ West County: Pratt

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

CNL/CDL
Dual Induction
Micro

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

Name	Top	Datum
Heebner	3690	-1814
Brown Lime	3872	-1996
Lansing	3888	-2012
Stark	4210	-2334
B/KC	4286	-2410
Viola	4452	-2576
Simpson Shale	4572	-2696

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	23	386	Common	275	2% Gel 3% CC
Production	7.875	5.5	17	4740	Pro C	175	10S% Salt2% Gel 5# Koseal

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	-			
	-			

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: 11/17/2023	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4464	4482

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
3	4464	4482			see attached

TUBING RECORD:	Size:	Set At:	Packer At:	
	2.875	4592		

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	RETA #1
Doc ID	1755421

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	386	Common	275	2% Gel 3% CC
Production	7.875	5.5	17	4740	Pro C	175	10S% Salt2% Gel 5# Koseal

QUALITY WELL SERVICE, INC.

8428

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-786-6992
Fax 620-672-3663
Todd's Cell 620-388-4967
Brady's Cell 620-727-6964

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 10-27-23	26	29S	13W	Pratt	Ks		

Lease Reta | Well No. 1 | Location

Contractor Mufin Drlg R.6 "104 | Owner

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 12¼ | T.D. 396'

Csg. 85/8 | Depth 385'

Tbg. Size | Depth | Charge To Griffin

Tool | Depth | Street

Cement Left in Csg. | Shoe Joint 42.17 | City | State

Meas Line | Displace 22 Bbl | The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 395 sx Common 2% Gel 3% CC ½ "PS USED 275

EQUIPMENT

Pumptrk 3	No.		
Bulktrk 12	No.		
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran 9 Jts 85/8 23# CSG SET @ 385

START CSG CSG on Bottom

Hook up to CSG & Break Circ w/ Rig

START Pumping H2O

START MIX & Pump 275 sx Common 2% Gel 3% CC ½ "PS @ 14.8 #/Gal

SHUT DOWN Release 95/8 Wooden Plug

START Disp

Plug Down 500 #

Close Value on CSG

Good Circ thru Job

Circ Cmt to Pit

THANK YOU

PLEASE CALL AGAIN

TODD MATT Arthur

X Signature

Common	275 sx
Poz. Mix	
Gel.	517 lbs
Calcium	776 lbs
Hulls	
Salt	
Flowseal	138 lbs
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	408
Mileage 15	6120

FLOAT EQUIPMENT

Guide Shoe	8 5/8 M 1 EA
Centralizer	Baffle Plate 1 EA
Baskets	Wooden Plug 1 EA
AFU Inserts	
Float Shoe	
Latch Down	
	Service Spv 1 EA
	LMV 15
Pumptrk Charge	Surface
Mileage	30
Tax	
Discount	
Total Charge	

Taylor Printing, Inc.

Griffin management LLC

RETA 1

10/26/23
MI and RU Murfin 104

11/1/23
Starting Laying down drill pipe at 8:00 am
Laid down pipe and drill collars. Start running casing at 2;00 pm
Run 113 jts 5 ½" 17# casing Total 4740'. PBTD 4732'. Quality cemented with 175 sks Pro C cement 10% salt, 2% gel and 5# Koseal
Plug down at 6:15 pm. Released rig.

11/7/23
RU CCWS (Reyes)
Unloaded tubing 149 jts 2 7/8"= 4828.53'
Avg 32.41

11/8/23
RU Log tech. Run CBL/GR log and perforated 4464 - 4482’ 3 spft. LTD 4734’. PU model R packer and 138 jts. RU Tiger Chemical to spot at 4483’. Pumped 750 gals 15% MCA acid and 10.5 KCL spacer water. Breakdown 580#. Treat 3.5 bpm at 400#. Ball action up to 600#. ISIP 200#. 15 mins 50#. Used 1500 gals 15% MCA acid, 10.5 bbls KCL spacer water, 28 bbls KCL flush water and 40 balls. Total 76 bbls used
RU to swab. IFL surface
Swab down and recovered 49.5 bbls
Last swab was 11% OC
Next hr recovered 7 bbls 15% OC
FFL 4200’
Open bypass and swab back 12 bbls 12% OC
Total acid load swabbed back 56.5 bbls
Shut in well

11/9/23
TP 100#. IFL 2900’

1st swab recovered 1500’/250’ oil 12% OC
2nd swab recovered 700’ 6% OC
3rd swab recovered 375’ 12% OC
4th swab recovered 300’ 16% OC
Swabbed 12.5 bbls
Wait 15 mins recovered 200’ 25% OC
Wait 15 mins recovered 200’ 20% OC
Wait 15 mins recovered 80’ 20% OC
Swabbed 2.5 bbls
30 mins recovered 100’ 29% OC
30 mins recovered 125’ 25% OC
Swabbed 1 bbls. Total swabbed today 16 bbls
Released packer and pick up 2 jts to clean perf balls off perforations. PU swab and swabbed 49.5 bbls off casing. Laid down tubing. RD

11/13/23
RU Gore N2 and fracked with
2,633 bbls slick water
41,741# 20/40 mesh sand
8,055# Restin coated 20/40 sand
960,000 scf N2

Avg 40 bpm at 1285#
ISIP 1106#. 15 mins 955. Shut in well.

11/15/23
CP 1000# open well at 8:00 am
Fluid to surface at 10:00 am
1st hr CP 120# flowed 22.5 bbls
2nd hr CP. 65# flowed 13 bbls
3rd hr. CP. 70# flowed 15 bbls
4th hr. CP 70# flowed 10 bbls
5th hr. CP 40# flowed 7.5 bbls. Sli oil
6th hr. CP 50# flowed 10 bbls
7th hr. CP 30# flowed 7.5 bbls
4:45 pm CP 0# flowed 15 bbls in 2.25 hrs
Total flowed back 100.5 bbls

11/16/23
RU CCWS (Les)
Pick up desander and tubing as follows

1) 2 7/8" purge valve .60'
1) Jt 2 7/8" tubing. 32.41'
1) 2 7/8" Desander. 19.50'

1) 2’ x 2 7/8” sub 2.00’
1) 2 7/8” seating nipple. 1.10’
140). 2 7/8” tubing. 4537.40’
Bottom of tubing landed at 4591.91’
Seating nipple at 4538.50’
RO to run pump and rods as follows:
1) 2 ½” x 2” x 18’ RWB insert pump
1) 2’ x 7/8” pony rod
6) 1.25” x 25’ sinker bars
173) 7/8” rods
1) 8’ x 7/8” pony rod
1) 4’ x 7/8” pony rod
1) 26’ polished rod
Loaded hole.

11/17/23
RD CCWS. Set pumping unit and started pumping at 3:00 pm

12/19/23
RU CCWS (Reyes)
Pulled pump and rods. RO to TOOH

PU 3 jts and tagged 4’ in on 4 jt picked up.
Tagged at 4691’. TOOH. Shut down

12/20/24
PU Hydrostatic bailer. TIH. Tagged at 4686’
Bailed 51’ to 4737’. TOOH. Dumped bailer
TIH with tubing string as follows

1)	Purge valve.	00.60’
1)	2 7/8” jt.	32.41’
1)	Desander.	19.50’
1)	2’ 2 7/8” sub.	2.00’
1)	Seating nipple.	1.10’
140)	jts 2 7/8”	4537.40’

Bottom of tubing landed at 4591.91
Seating nipple at 4538’
RO to run pump and rods

1)	2 ½” x 2” x 18’ RWB insert pump
1)	2’ x 7/8” pony rod
6)	1.25” x 25’ sinker bars
173)	7/8” rods
1)	8’ x 7/8” pony rod
1)	4’ x 7/8” pony rod

1) 26’ polished rod

Load hole and hung off well. RD

GRIFFIN MANAGEMENT, LLC
126 S. Main, Pratt, KS 67124
620.672.9700

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

Well Name: Reta #1
API: 15-151-22577
Location: T29S R13W Sec 26
License Number: 33936
Spud Date: 10/26/2023
Surface Coordinates: 1650' FSL & 2380' FWL
Region: Pratt County, KS
Drilling Completed: 10/31/2023

Bottom Hole Coordinates: Vertical Wellbore
Ground Elevation (ft): 1871'
K.B. Elevation (ft): 1876'
Logged Interval (ft): 3600' To: 4741'
Total Depth (ft): 4741'
Formation: Ordovician (Arbuckle) @ RTD
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: 126 S. Main
Pratt, KS 67124

GEOLOGIST

Name: Eli J. Felts
Company: Griffin Management, LLC
Address: 126 S. Main
Pratt, KS 67124

Lithology | MD | Circulating Stops | Rate of Penetration: ROP (min/ft), Gas (units) | Oil Shows | Geological Descriptions | DSTs/Mud/Surveys, etc.

Geological Descriptions

LS - white, cream, fine xln chalky in most; stringers SH appear - dark brown to earthy black; sb carb

SH - increasing % dark earthy carbonaceous shales; sl laminations visible; fissile in some; slight gas bubbles visible along edges; abdt white chalky soft; loose in tray

LS - pale cream to white, lt grey, fn to v. fine xln w/smooth surface & limited visible porosity; sl xln calcite dev & trace ooc partially preserved in sm; weak oa; poss fractured ip; no odor, no stain; abdt white chalky residual scattered

SH - flood grey - pale blue silty soft; gritty txture in some high & silty to v. fine grn sandy inclusions; no visible porosity related to sand presence; bound completely w/ clay minerals/shales; dark speckled inclusions w/ micaceous appearance; sm metallic pyritic xln; v. fine fragments/xln shape not clearly represented

SH & Siltstone; much of sample appears as above; lt greys w/ influx white to lt grey/cream sandstone; v. fine grains well rounded & sorted; shalebound clusters w/ out visible intragranular pors; no odor, no staining/no shows

Sandy SH/ Shaley Sands; greys & white/cream cuttings w/ fn.-v. fine grains visible; uniformly rounded & sorted; streaks dark gilsonitic stain along edges in some; no live indications of recent potential reservoir; prior migration likely, however shales & clay minerals binding and cutting off permeabilty

SH - shades of grey, smooth silty txture in most w/ decreasing sandy inclusions; some white sandy stringers appear as edge contacts w/ few stringers LS - cream white chalky & partially visible sand; thin lens lime; limited evidence; no shows

SH - mostly grey silty smooth; soft poorly compacted in most; soft w/ limited resistance on break; additional wave limey fragments appear; increasing % present in sample; white-cream fine xln chalky txture; sl sandy

LS - cream to lt tan, brown; v. fine to microxln; some oolitic w/ white rounded & heavy groupings where present; intra-oolitic space occupied w/ micritic limestone matrix; no visible porosity present; firm break in some nearing CH sharp breaks; no odor, no staining or shows

LS - mostly cream, fine to med xln; sl foss, few tan to brown, med to fn xln; foss & dense; argillaceous ip; abundant shales remain

LS - cream to white, lt grey, fine xln w/ smooth txture in mst w/ some xln txture; lacking any significant porosity; platy to chert like sharpness on breaks; slight visible foss; oolites visible cemented in matrix binding & complete w/ minimal to non-existent porosity within; abdt grey shales

LS - cream to white, sm lt grey, buff, fine xln in most; scattered gilsonite staininng appears fracture patterns; chalky; no odor, no stain

LS - cream to white, some dark webbed staining gilsonitic mineral stains; fine xln w/ oa smooth txture; sb cherty in some; sl buff sucrosic dolomitic xln marbled ip; residual stain w/ no live presence; no odor, ns

LS - cream to buff, fine xln w/ smooth txture in most; some partial pp dissolution porosity along eges/faces in some; appears along fractures & does not carry through when broken; stain present in these areas, lt brown, non-movable residual staining; chalky break; no odor, ns

LS - cream to lt grey w/ some caramel/tan to brown marbled w/ dense sections; mostly chalky to argillaceous w/ lt greyish blue silty shale stringers interbedded; granular appearance w/ visible slouging from possible clay hydration & swelling

LS - white to lt greys, cream, fine xln in most w/ increasing to med xln ip w/ poss dolomitic xln dev in part; near edges of some cuttings; fossiliferous w/ intrafoss-oolitic to ooc in some; barren w/ chalky break; soft powdery break w/ no visible shows; no odor

LS - white to buff, some stained w/ golden-amber residual surface w/ some slightly saturated hue giving darker shade in some pcs; fn xln w/ dissolution porosity in part; oa chalky break; shows appear resudual, non-lively; questionable pp floater traces; no odor

LS - cream to white w/ increasing amber-tan staining present along edges & within porosity development; increasing dissolution & intrafossilliferous; sm re-xln dev in some; lacking live oil indicators although staining increasing & lighter shades overall; fair to good porosity in some w/ potential develpment w/ more favorable structure & should be kept in radar in offset locations for reservoir development & shows; check logs for calculations

LS - cream to white; lt grey; fine xln w/ chalky appearance in most; some stained pcs appearing as above are present but decreasing significantly; greyish milky cast appearing over sample giving dull, dead appearance thru most pcs; no odor, no show

LS - mst white w/ lt grey; few traces tan-brown staining; chalky txture in most; some visible foss w/ some intrafoss poros dev in couple pcs; break reveals traces lt amber residual clingy flakes oil that float in irregular shapes; non-liquid/moveable appearance; other than these couple pieces; remainder of sample is without indicators of commercial or otherwise test-worthy reservoir potential

LS - mst cream to beige, fn to med xln, chalky txture in many w/ oa smooth txture, soft breaks w/ sl friab txt; chalky matrix; rare interbedded shale, pale grey; some pcs appear to have edge stain; appears to be shale contact; no odor, no show

LS - cream to dull grey, fine xln in mst; chalky txture abdt throughout most pcs; slight pp porosity poorly developed & carries buff to pinkish stained hue; soft to med chalky break; no odor, ns

LS - cream to buff, fine xln w/ oa similar appearance to prior sample with some pcs having dark edge contacts along edges w/ dark shale contact visible; trace fragments dark shale to represent formation change; otherwise lacking significance

LS - cream, fine xln & SH appears increasing; some dark earthy shales along w/ medium brown w/ significant gas bubbes surrounding brown shale fragments; no odor, no shows save shale gas

SH - flood dark grey to black shales; mature and well compacted appearance; smooth slatey appearance in some w/ smooth laminations & presence of gas increasing further along breaks & planes; no odor present; shale gas from Stark S

LS - most stark white w/ smooth txture; fine to v. fine xln; sl cherty in part; lacking visible porosity; dense& well compacted; boney tight cherty lime

LS - cream to grey shift from bone white; visible txture transitions to sl granular w/ fossilferous - chalky appearance oa; poorly dev porosity & shaley argillaceous; no odor, ns

SH - sample transitions further into shale dominated section; limey structure remains in some pcs although otherwise soft, loose & colorful appearance highlight shift from carbonate limestone into shaley beds w/ limey influence

SH - varicolored w/ varity of notable features; Black carbonaceous w/ dense fissile & firm; others pale grey to tan w/ v. soft to mushy break; swells and dissolving w/ limited probing; some blue-purple hue & traces pale greens

LS - pale grey; fn to v. fine xln tombstone & lthographic; uniformly & without question the least conspicuous & quite possibly lacking any trait. The nerdiest of geologist has a hard time finding significance in this do nothing, go nowhere sorry excuse for a rock. Mark my words that noone will be taking this truly sad sample on any second dates; wow, I mean really guy, do better will ya

LS & Cherty lime; cream, white w/ dark brown to black staining; pattern of staining appears similar to trippolitic development often associated w/ Miss Osage & weathered CH with highly weathered & stained/saturated appearance; matrix in these samples appears more lime/calcium based than chert/silica; as would generally be indicative of osage weathering; possible exposure or vertical communication affecting post-miss recession or migration of hydrothermal fluids contributing to similar dissolution & porosity formation; further inquiry & research may be of aid in this quazi-hypothesis/inference (4360 & 4380 Drilling Samples)

CH - varicolored vitreous bone like w/ cream - yellow/orange, cream, pale greens to purple in some; sharp & smooth w/ some visible weathering in some; dark trippolitic txture w/ heavy staining in these parts; lacking odor, reworked appearance

*shift from CH to LS - pale grey to white, fine xln w/ sl chalky appearance; well compacted & dense overall, uniform & lithographic; possible Gilmore City LS

SH - flood green to maroon shales; silty smooth & med firm shales; mottled & varicolored w/ marbled colors w/ overall consistent txture & attributes otherwise

20" sample - No cuttings present in sample box

SH - flood dark green to brown silty & blocky cuttings w/ v. slight visible silty granular txture throughout; firm well compacted & almost structured blocks appear to have structural density possibly due to fair % calcium mineral ratio; uniform in consistency w/ some slight shifts in color shifting greens to browns, sl maroon in some

SH - v. similar to above description; smooth silty & blocky, firm uniform consistency; pale green dominates color scheme along w/ some brown- maroon; trace pcs dark approaching black

SH - oa resembles shales present and descibed above; slight transition w/ some pieces appearing sandy w/ 2-3 clusters *SS - white w/ brown & orange speckled inclusions appear reworked CH fragments; poorly sorted sb rounded to sl angl grains w/ poor cementation; sl chalky residual appears w/ break; lacking shows/odor; additionally noted some fine xln sucrosic dolomite presence in trace quantities; staining noted w/ questionable odor

Dolomite - white to cream/buff w/ significant staining; fn xln sucrosic & abdt med xln rhombic xln growth w/ good porosity development; appears re-xln w/ offset xln stacking increasing intraxln porosity; amber to lt brown staining in most w/ shows live free oil on break; fluoresence glows bright yellow to green in webbed pattern following porosity development

40" sample brings additional wave of well developed dolomite; white w/ tan to brown staining & few dark stained pcs; quality shows persist along with good xln/re-xln porosity stained & partially saturated w/ live shows; stringers boney white vitreous shale appear to increase with overall quality persisting overall*this CFS contains best shows and reservoir quality observed so far in this test well

Dolomite - white to cream w/ tan to brown staining in much of sample; transitioning to more fine xln sucrosic & decreasing med xln rhombs; fair to good porosity & reservoir potential remains good, although less quality overall than prior stop; increasing CH - bone white vitreous w/ smooth, fresh appearance in most; some edge weathering & visible contacts with dolomite porous sections; some chalky material present in part; fluores appears bright & lively in ~10-15% of sample

Dolomite - white to bone in majority of rocks; declining overall porosity & shows decreasing quickly; dolomite xln has degraded to fn-v. fine xln at most w/ significant increase presence of CH ratio along w/ additional clean bone white vitreous chert fragments; shows declining along w/ fluor indicating live presence in 2-3% of cuttings overall; appears to have chalky presence along with degrading of porosity

LS - dolomitic & cherty bone white; fine xln sucrosic txture w/ some smooth glassy cherty sections; white chalky residue abundantly spread throughout giving milky grey to white cloudy appearance washing over cup; odor decrease to negligable if any; fluores non-present & shows vanished

SH - flood turquoise green w/ smooth waxy txture; fissile break; firm overall w/ slippery break in some; microsilty smooth surface of shales; w/ few stringers grey sandstone clusters; frosted qtz; well rnd & sorted w/ consistent, fair to firm cementation; vis pyrite in some; no odor, no shows, no fluor

SH - transition from dark green to green to grey; some mottled; v. fine silty w/ few clusters SS - clear to lt gry; med grained sl frosted sl frosted qtz w/ dark inclusions; poor to fair friab; barren; no odor, no show

Dolomite & Dolomitic SS - abdt clusters cream w/ tan staining; appears fine xln sucrosic dolomite w/ saturated stain & slight shows live free oil; fair to good friability breaking into smooth sandy grains w/ some sb anglr; weak spotty fluor w/ slight odor w/ shake; double check logs & dry samples w/ fresh eyes

SH - turquoise green, typical Simp type & abdt grey to dark brown; mottled to speckled; fair % SS - white to pale grey clusters w/ dark speckled/spotted inclusions; most clusters shaley; clear to frosted qtz, sb rounded & poorly sorted med-large grains; mst porosity bound in shale/pyrite w/ rare "clean" clusters; 2 w/ good friab & oa good vis pors; dark mineral/shaley inclusions; loose grains on break; barren w/ no odor, no fluor, ns

Dol - tan to brown, fine xln to v. fine in some; well compacted & dense blocks w/ no vis xln porosity; no odor or stains; contact pcs sandy shale & traces CH - oolitic nodes present within vitreous CH

Dolomite - cream to buff w/ sl pinkish hue; fine xln sucrosic w/ some med xln rhomb dev; fair vis porosity building/increasing; cast/staining present uniform throughout w/ dull yellow fluor present in all pcs visible dolomite; fair friability w/ no live show on break; stain present poss mineral staining; too consistently present for HC indication; typical Arb odor is not present

Dolomite - cream-buff; sm sl tan; fine xln suc & med xln ip; more uniformly developed xln porosity & relatively clean presence w/out significant weathering evidence or re-work/erosional materials; xln pyrite present in some; trace shales appear on edges in some; glauconitic; likely indicitive saltwater presence/saturation or migration through this section; no odor, no staining; no shows; dull ylw fluor persists

QUALITY WELL SERVICE, INC.

8432

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-786-6992 **Todd's Cell 620-388-4967**
Fax 620-672-3663 **Brady's Cell 620-727-6964**

Date 11-1-23	Sec. 26	Twp. 29S	Range 13W	County PRATT	State KS	On Location	Finish

Lease KETA Well No. 1 Location

Contractor Murfin Drlg Rig # 104

Type Job LS

Hole Size 7 7/8 T.D. 4741'

Csg. 5 1/2 17# Depth 4741'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 7.23

Meas Line Displace 109.85

Owner

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.

Charge To Griffin

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 205 sx Pro C 2% Gel 10% Salt 5#/sx Kolseal .6% C16A .25% C41P 75#/sx ps

EQUIPMENT

Pumptrk 3	No.		
Bulktrk 15	No.		
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS

Rat Hole 30 sx

Mouse Hole

Centralizers 1-2-3-4-5-6-7

Baskets

D/V or Port Collar USED

Ran 113 Jts 5 1/2 17# CSG SET @ 4740

START CSG, on Bottom : TAG

DROP Ball Hook up to CSG : Break Circ w/rig

START Pumping 10 Bbls H2o 12 Bbls MF 10 Bbls H2o

START Plug R-H 30 sx

START Mix : Pump 175 sx Pro C J CSG @ 14.8#/Gal

SHUT DOWN WASH up tk RELEASE 5 1/2 LD Plug

START Disp w/ 2% KCL

LIFT PSI 95 Bbls out 550#

Plug DOWN 110 Bbls out 1200#

PSI up CSG 1700#

RELEASE : HELD 1/2 Bbl Back

Good Circ thru JOB

THANK YOU

PLEASE CALL AGAIN

TODD MATT HERMAN

Common	205 sx		
Poz. Mix			
Gel.	385 lbs		
Calcium			
Hulls			
Salt	1129 lbs		
Flowseal			
Kol-Seal	1025 lbs		
Mud CLR 48	500 Gal		
~~CFL-117 or~~ CD110 CAF 38	C16A 116 lbs		
~~Sand~~ CC-1	9 Gal C41P 48 lbs		
Handling	276		
Mileage	10/3850		
5 1/2 **FLOAT EQUIPMENT**			
Guide Shoe	H:M 1 EA		
Centralizer	7 EA		
Baskets			
AFU Inserts			
Float Shoe			
Latch Down	1 EA		
SERVICE SUP	1 EA		
LMV 10			
Pumptrk Charge	LS		
Mileage	20		
		Tax	
		Discount	
		Total Charge	

X Signature

Taylor Printing, Inc.