KOLAR Document ID: 1695510

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: Charles N. Griffin
Phone: (620) 672-9700
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Eli J. Felts
Purchaser: Plains Marketing, LP

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 #:

11/9/2022 Spud Date or Recompletion Date
11/13/2022 Date Reached TD
11/21/2022 Completion Date or Recompletion Date

API No.: 15-007-24453-00-00
Spot Description:
- SE - SE - NE Sec. 16 Twp. 30 S. R. 15 ☐ East ☑ West
2310 Feet from ☑ North / ☐ South Line of Section
330 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: Barber
Lease Name: HOPE Well #: #1
Field Name:
Producing Formation: Ordovician
Elevation: Ground: 1933 Kelly Bushing: 1938
Total Vertical Depth: 4771 Plug Back Total Depth: 4760
Amount of Surface Pipe Set and Cemented at: 260 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: 37000 ppm Fluid volume: 4800 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: 02/20/2023
☐ **Confidential Release Date:** 02/19/2025
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 02/20/2023

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

Sec. 16 Twp. 30 S. R. 15 ☐ East ☑ West County: Barber

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: Attached Top: Attached Datum: 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	23	260	Common	435	2% Gel 3% CC
Production	7.875	5.5	15.5	4770	Pro C	145	10% Salt 2% Gel 6# 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: 12/8/2022	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)*	4630	4640

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	4630	4640			see attached

TUBING RECORD: Size: 2.875 Set At: 4650 Packer At:

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

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	HOPE #1
Doc ID	1695510

Tops

Name	Top	Datum
Heebner	3850	-1912
Brown Lime	4026	-2088
Lansing	4050	-2112
Stark	4354	-2416
B/KC	4441	-2503
Pawnee	4505	-2567
Cherokee	4545	-2607
Simpson Shale	4714	-2776

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	HOPE #1
Doc ID	1695510

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	260	Common	435	2% Gel 3% CC
Production	7.875	5.5	15.5	4770	Pro C	145	10% Salt 2% Gel 6# Koseal

QUALITY WELL SERVICE, INC. 8151

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 11-9-22	Sec. 16	Twp. 30S	Range 15W	County BARBER	State KS	On Location	Finish

Lease HOPE Well No. 1 Location

Contractor Murfin Drlg Rig # 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. 260'

Csg. 8⅝ 23# Depth 260'

Charge To Griffin

Tbg. Size Depth

Street

Tool Depth

City State

Cement Left in Csg. Shoe Joint 20'

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

Meas Line Displace 15.36 Bbls

Cement Amount Ordered 375 sx Common 2% Gel 3% CC ¼# Flo Seal 435 sx

EQUIPMENT

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

JOB SERVICES & REMARKS

Run 6 Jts 8⅝ 23# CSG SET @ 260'
START CSG CSG on Bottom
Hook up to CSG & Break Circ w/ Rig
START Pumping H2O
START Mix & Pump 325 sx Common 2% Gel 3% CC ¼# Flo Seal @ 14.8 #/gal
START Disp
Plug Down
CMT Fell Let SET 45 MIN TOC 25'
Pump 50sx Plug Pulled Abv 5'
WOC
Mix & Pump 60sx Common 3% CC
CMT in Cellar Staying Full
THANK YOU
PLEASE CALL AGAIN IN 1000 MILE

X Signature BRYAN

Common	435
Poz. Mix	
Gel.	705#
Calcium	1227#
Hulls	
Salt	
Flowseal	137.5#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	471
Mileage	25/1,775

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Service Sup 1 EA	
LMV 25	
Pumptrk Charge Surface	
Mileage 50	
Tax	
Discount	
Total Charge	

Taylor Printing, Inc.

QUALITY WELL SERVICE, INC.

8156

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

Date 11-14-22	Sec. 16	Twp. 30S	Range 15W	County BARBER	State KS	On Location	Finish

Lease HOPE Well No. 1 Location

Contractor MURFIN DRLG RIG # 104

Type Job 5 1/2 LS

Hole Size 7 7/8 T.D. ~~4811~~ 4771'

Csg. 5 1/2 15.5 Depth 4770'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint 8.55

Meas Line Displace 113.39

EQUIPMENT

Pumptrk 8 No.

Bulktrk 10 No.

Bulktrk No.

Pickup No.

JOB SERVICES & REMARKS

Rat Hole 30SX

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

RUN 113 JTS 5 1/2 15.5# CSG SET @ 4770

START CSG CSG on Bottom TAG

DROP BALL HOOK UP TO CSG BREAK CIRC W/RIG

START PUMPING 10 BBLS H2O 12 BBLS MF 15 BBLS H2O

START PLUG R-H 30SX

START MIX & PUMP 145SX PRO C & CSG @ 4.8 BBL/MIN

SHUT DOWN WASH UP TO RELEASE 5 1/2 LD PLUG

START DISP W 2% KCL

LIFT PSI 98 @ 550'

PLUG DOWN 114 @ 1200#

PSI UP ON CSG 1700#

RELEASE HELD 1/2 BBL BACK

GOOD CIRC THRU JOB

~~CIRC CMT TO~~

THANK YOU

PLEASE CALL AGAIN

X Signature TODD MILLER BRIAN

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 175sx Pro C 2% Gel 10% SALT 5#/sk Kolseal .6% C16A 25% C41P 25#/sk PS

Common	175sx	
Poz. Mix		
Gel.	329#	
Calcium		
Hulls		
Salt	964#	
Flowseal	44#	
Kol-Seal	875#	
Mud CLR 48	500 Gal	
CFL-117 or CD110 CAF 38	C16A 99#	
Sand	CC-1 9 Gal C41P 41#	
Handling	217	
Mileage	25 / 5425	
5 1/2 **FLOAT EQUIPMENT**		
Guide Shoe	H&M 1 EA	
Centralizer	7 EA	
Baskets		
AFU Inserts		
Float Shoe	1 EA	
Latch Down	1 EA	
SERVICE SUP	1 EA	
LMV 25		
Pumptrk Charge	LS	
Mileage	50	
Tax		
Discount		
Total Charge		

Taylor Printing, Inc.

Hope #1
Griffin Management, LLC

11/14/22

Murfin rig 104
LTD: 4,771'
Start laying down drill pipe @ 12:30 pm. Start running casing @ 6:00 pm. Ran 113 joints 5 ½" 15.5 # casing totaling 4,768.2'. PBTD: 4,759.65'.
RU to break circulation for one hour
RU Quality well service and cemented with 145 sks Pro C cement with 10% salt, 2% gel and 6# Koseal
Plug down and held at 11:15 pm.
Plug rathole with 30 sks cement

11/21/22

RU CCWS Rig 2 (Allen's Rig)
Unload 148 jts of 2 7/8" used tested & drifted tubing (from GM yard inventory)
148 JTS = 4,678.55' (31.61' JT Avg)

RU Log-Tech to run GR/CBL

LTD: 4756’
Bond: looks good
Perforated: 4630-4640' 3 SPF
RD Log-Tech
RO to PU and Tally tubing in the hole. PU 145 jts of 2 7/8” tubing and Model R packer. Set packer @ 4594’ (145 jts)
RU to swab, IFL 300’
Made 8 runs and Rec 36 bbl on swab down.
2nd run off seating nipple, rec 250’ of 100 % KCL water.
Wait 30 min to make last swab run.
1st 30 min, Tagged NO Fluid and Recovered 0’ fluid. Dry run.
Pro-Stim will acidize first thing in the morning.
Shut well in. SDFN.

11/22/22

SITP 50 #.
RU to swab, no fluid in the hole, dry run. RD swab and RU Pro-Stim to spot acid with 146 JTS and 16’ of subs @ 4,642’ (26.9 bbl + .5 bbl = 27.4 bbl) circulating spot.

Pull subs and 2 JTS, set packer to treat 144 JTS in @ 4,561'. (28.3 bbl to clear perfs). Used 1,500 gallons of 15 % Griffin blend.

Breakdown: 1,000#.
Treated: 2.5 BPM @ 520 # TP. Good ball action @ end of the job. 440 # - 570 # TP.
ISIP: 370 #. 200 # after 15 minutes. Flowed back 6.25 bbl to truck. Total load: 74 bbl.

RU to swab: IFL Surface, Rec 1,100' KCL water
2nd run: FL @ 700', pulled from 1,700', Rec 1,000' acid water.
3rd run: FL @ 1,200', pulled from 2,300', Rec 1,000' acid water
4th run: FL @ 1,500', pulled from 2,600'. Rec 1,000' acid water. Acid blow after run
5th run: FL @ 1,500', pulled from 2,600'. Rec 1,000' acid water.
6th run: FL @ 1,700', pulled from 2,700'. Rec 1,000' acid water. Strong blow after run.
7th run: FL @ 2,100', pulled from 3,200'. Rec 1,000' @ TOB OC. Strong blow after run.

8th run: FL @ 2,500', pulled from 3,500'. Rec 1,000' @ 3 % OC. Light gas blow after run.
9th run: FL @ 2,800', pulled from 3,800'. Rec 1,000' @ 7 % OC. Light gas blow after run.
10th run: FL @ 3,300', pulled from SN. Rec 1,200'@ 10 % OC.
11th run: FL @ 3,600', pulled from SN. Rec 950' @ 14 % OC.
12th run: FL @ 4,000', pulled from SN. Rec 550' @ 11 % OC. Vacuum after run.
Swab down rec 62.5 bbls

Start 1st Hour swab test:
1ST run FL @ 4,000', pulled from SN, Rec 550' @ 19 % OC. Vacuum after run
2nd run FL @ 4,200', Pulled from SN, Rec 350' @ 16 % OC.
3rd run FL @ 4,200', Pulled from SN, Rec 350' @ 15 % OC. Vacuum after run
4th run FL @ 4,200', Pulled from SN, Rec 350' @ 16 % OC.
Swabbed back 11.75 bbls in 1 hour swab test. 74.25 bbl total recovered after acid job.

Start 2nd hour swab test:
1st run FL @ 4,200', Rec 350' @ 16 % OC
2nd run FL @ 4,200', Rec 350' @ 15 % OC
3rd run FL @ 4,300', Rec 250' @ 15 % OC
4th run FL @ 4,300', Rec 250' @ 16 % OC
5th run FL @ 4,300', Rec 250' @ 16 % OC
Swabbed back 9.4 bbls in 2nd hour swab test.
Total Recovered: 83.6 bbls

Start 3rd hour swab test:
1st run FL @ 4,200', Rec 350' @ 18 % OC
2nd run FL @ 4,300', Rec 250' @ 16 % OC
Swabbed back 4.7 bbls in 3rd hour swab test.
Total Recovered: 88.35 bbls

Release packer and let fluid equalize. Re set packer and RU to swab: IFL 1,700'. Swabbed back 23.5 bbl in 1st hour after releasing packer.

Start 4th hour swab test:
1st run FL @ 3,800, Rec 750' @ 11 % OC
2nd run FL @ 4,000', Rec 550' @ 6 % OC
3rd run FL @ 4,200', Rec 350' @ 8 % OC
4th run FL @ 4,200', Rec 350' @ 11 % OC

Swabbed back 11.75 bbls in 4th hour swab test.
Total recovered for the day: 126.35 bbls.
Shut in well.

11/23/22

SITP: 80 #

RU to swab: IFL @ 2,200'. Pulled from 3,200'. Rec 150' free oil
2nd run: FL @ 2,800'. Rec 1,000' @ 9 % OC.
3rd run: FL @ 3,400'. Rec 1,100' @ 5 % OC.
4th run: FL @ 3,800'. Rec 750' @ 5 % OC.
Swabbed back 16.45 bbls 1st hour.

5th run: FL @ 3,800'. Rec 750' @ 11 % OC.
6th run: FL @ 4,000'. Rec 550' @ 12 % OC.
7th run: FL @ 4,100'. Rec 450' @ 11 % OC.
8th run: FL @ 4,100'. Rec 450' @ 12 % OC.
Swabbed back 14.1 bbls 2nd hour.

9th run: FL @ 4,100'. Rec 450' @ 15 % OC.
10th run: FL @ 4,200'. Rec 350' @ 10 % OC.
11th run: FL @ 4,200'. Rec 350' @ 11 % OC.
12th run: FL @ 4,200'. Rec 350' @ 12 % OC.
Swabbed back 9.4 bbls 3rd hour

13th run: FL @ 4,200'. Rec 350' @ 12 % OC.
14th run: FL @ 4,200'. Rec 350' @ 14 % OC.
15th run: FL @ 4,300'. Rec 250' @ 11 % OC.
16th run: FL @ 4,300'. Rec 250' @ 12 % OC.
Swabbed back 7.05 bbls 4th hour

17th run: FL @ 4,200'. Rec 350' @ 15 % OC.
18th run: FL @ 4,200'. Rec 350' @ 11 % OC.
19th run: FL @ 4,300'. Rec 250' @ 8 % OC.
20th run: FL @ 4,300'. Rec 250' @ 10 % OC.
Swabbed back 7.05 bbls 5th hour

Total recovered after acid job: 180.4 bbl

Shut in well and rig down. Will frac with 3 tanks on Monday.

11/28/22

RU Gore Nitrogen to frack
ISIP: 4051#
5 min: 3061#
10 min: 2636#

15 min: 2300#
20 min: 2164#
Average Rate: 17.5 BPM - Max rate: 20.7 BPM
Average PSI: 3436# - Max PSI: 4517#
Used 1,137 bbl Slick Water = 1,137 bbl Total Load
Pumped 50,045 LBS of 20/40 Sand + 3,278 LBS of 20/40 Resin coated sand and 1,212,000 SCF of N2.
Shut well in and will flow back tomorrow.

11/29/22

Started flowing back on a 16/64" choke @ 7:00 pm.
7:00 pm – 1105# TP. Rec 15 bbl. Foamy gassy frack water. Bunch of nat gas. 77.5 bbl total rec.
7:45 pm – 1050# TP. Rec 25 bbl. Foamy gassy frack water with sli color. No sand in choke.
9:00 pm – 875# TP. Rec 30 bbl. Foamy gassy frack water with ¼ TOB OC. 132.5 bbl total rec.
10:00 pm – 710# TP. Rec 27.5 bbl. Foamy gassy frack water with sli oil show. 160 bbl total rec.
1:45 am – 480# TP. Rec 55 bbl. 2% gassy OC. 215 bbl total rec.
5:15 am – 190# TP. Rec 70 bbl. 8% OC. 285 bbl total rec.

7:00 am – 105# TP. Rec 30 bbl. 12.5% OC. 315 bbl total rec.
11:45 am – 40-55# TP. Rec 55 bbl. 19.5% OC. 370 bbl total rec.
2:45 pm – 20-30# TP. Rec 27.5 bbl. 27% OC. 397.5 bbl total rec.
Rods and pump will be delivered tomorrow afternoon. PU and motor will be put together on location tomorrow morning.

11/30/22

TP 70#. Choke full open. Flowing to tank. 30% OC.

12/7/22

TIH w/ 147 jts 2-7/8” tubing and bailer
Tagged sand @ 4678’
Bailed hard but made hole every run
Bailed to PBTD. Pulled bailer up above perfs for 25 min. Ran back in and tagged same spot. TOOH w/ bailer.
Recovered 11 jts full of sand. Will wash jts out with water truck.

12/8/22

RU to swab
1st run FL @ 1050'. Pulled from 1300'. Rec 250' oil. No sand.
2nd run FL @ 1100'. Pulled from 1400'. Rec 300' oil. No sand.
3rd run FL @ 1300'. Pulled from 1600'. Rec 300' oil. No sand.
4th run FL @ 1300'. Pulled from 1600'. Rec 300' oil. No sand.
5th run FL @ 1500'. Pulled from 1800'. Rec 300' dirty water. No sand.
Rec 8.5 bbl for the hour.
Wait 15 min
1st run FL @ 1400'. Pulled from 1700'. Rec 300' dirty water. No sand.
2nd run FL @ 1300'. Pulled from 2300'. Rec 1000' TOB OC. No sand.
3rd run FL @ 1300'. Pulled from 2300'. Rec 1000' @ 10% OC. No sand.
Rec 13 bbl for the hour. 21.5 total rec.
1st run FL @ 1400'. Pulled from 2400'. Rec 1000' @ 18% OC. No sand.

2nd run FL @ 1500'. Pulled from 2500'. Rec 1000' @ 17% OC. No sand.
3rd run FL @ 1600'. Pulled from 2600'. Rec 1000' @ 18% OC. No sand.
4th run FL @ 1500'. Pulled from 2500'. Rec 1000' @ 15% OC.
Swabbed back 14 bbl for the hour. Total 35.5 bbl.

TIH with production tubing/pump/rods as follows:

145)	jts 2-7/8" tubing
1)	2-7/8" x 1'.5" SN
1)	2-7/8" x 4' Perf sub
2)	2-7/8" Tailpipe
	Collar & Bull Plug
1)	2-1/2" x 2" x 18' Pump
9)	1-1/2" x 25' Sinker Bars
97)	¾" Rods
76)	7/8" Rods
1)	2' x 7/8" Pony Sub
1)	4' x 7/8" Pony Sub
2)	6' x 7/8" Pony Sub
1)	1-1/4" x 26' Polished Rod

Loaded tubing. Well hung on and pumping.

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

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

Well Name:	1938-4636		
API:	15-007-24453		
Location:	T30S R15W Sec 16, SE SE NE		
License Number:	33936	Region:	Barber County
Spud Date:	11/9/2022	Drilling Completed:	11/6/2022
Surface Coordinates:	Lat: 37.435303 Long: -98.958382		
Bottom Hole Coordinates:	Vertical Wellbore		
Ground Elevation (ft):	1933'	K.B. Elevation (ft):	1938'
Logged Interval (ft):	3800' To: 4771'	Total Depth (ft):	4771'
Formation:	Ordovician (Simpson Shale) @ RTD		
Type of Drilling Fluid:	Mud-Co. Chemical Drispac - Displaced 2801-65'		

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Griffin Management, LLC
Address: 126 S. Main
Pratt, KS 67124-0347

GEOLOGIST

Name: Eli J. Felts
Company: Griffin Management, LLC
Address: efelts@griffinmgmt.com
316.765.4070

Drilling Report

Murfin Rig #104
Tool Pusher: James Mayfield

11/9/2022
Spud @ 4:00 PM

11/10/2022
WOC @ 260'

11/11/2022
Drilling @ 2,165'

11/12/2022
Drilling @ 3533'

11/13/2022
CFS @ 4620'
RTD @ 2:45 PM
Short Trip

11/14/2022
Logging
Run Casing; plug down @ 11 PM

11/15/2022

Done - Release Rig @ 3 AM

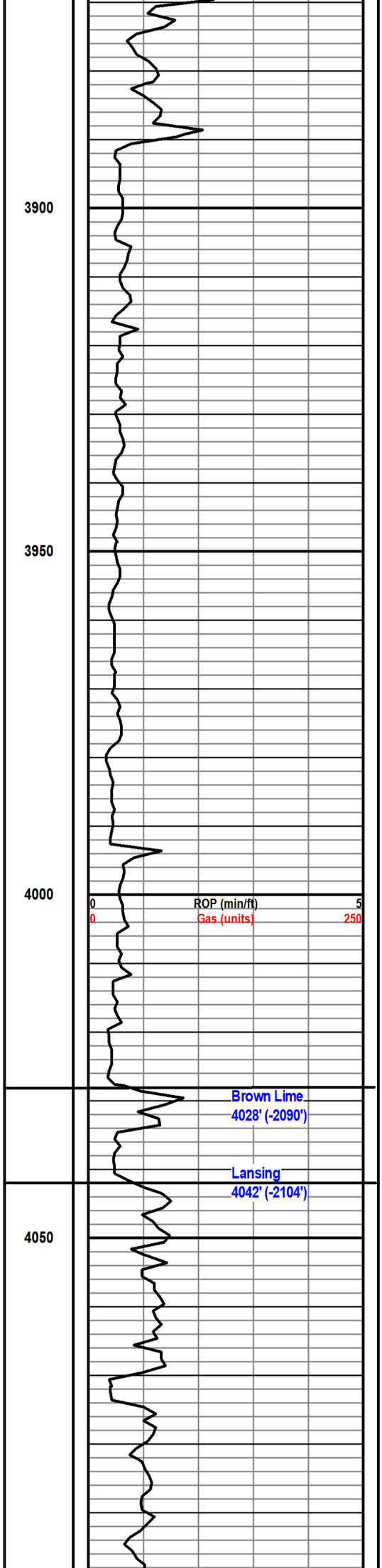
Problems

Lost 160' bbls @ 125'
Displace 2769-2798 with 700 bbl in 3/4 Hour
Short trip at 4773-67 stands in 5 hours

Pipe Setting

8.625" 23# Set @ 260' w/ 435 sxs.
5.5" 15.5# Set @ 4770' w/ 145 sxs

MD	Circulating Stops	Rate of Penetration ROP (min/ft) Gas (units)	Oil Shows	Geological Descriptions	DSTs/Mud/Surveys, etc.
		0 ROP (min/ft) 5 0 Gas (units) 250			
				LS - Crm-Wht, Chalky, MD Break, Few Pcs w/ Stained Fractures, No Fluor; SH -Black, Silty Breaks, ~3% of sample	
3800		0 ROP (min/ft) 5 0 Gas (units) 250		LS - Crm-Wht, Chalky, MD Break, Few Pcs w/ Stained Fractures, No Fluor; CH-Caramel-Opaque, FN-Large XLN, Firm Breaks w/ Fair Friab; SH -Black, Silty Breaks, ~3% of sample	3800
				LS - Crm-Wht, Chalky, MD Break, Mushy, Lt Gry - Cherty, Firm Breaks, Fair Friab; SH -Black, Flood of Lt Gry, Chalky, Silty Breaks, MD Firm,	
				SH - Black-Brwn, Silty on Breaks, MD-Firm, Few Lt Gry Pcs, Grainy; LS - Crm-Wht-Lt Tan, Some Dark Staining Throughout, No Fluor, Cherty in Most, Chalky in Crm-Wht, MD Breaks, Foss Throughout LS	
3850		Heebner Shale 3853' (-1915')			3850
				SH - Black-Brwn-Lt Gry, Grainy in Most, MD Breaks, Silty on Breaks, Few Lt Gry Pcs have Dark Spotting, Black Pcs More Dense; LS - Wht-Caramel, FN/MD XLN in Most, Chalky in Rest, Fair Friab, Some Darker Brown Staining, No Fluor	



as above w/ Sl decrease in amount of SH, Few Lt Grn SH Pcs, Soft & Chalky Breaks

LS - Crm-Tan w/ Caramel, Cherty in most, FN/MD XLN, Few Foss Pors Throughout; SH - Black-Lt Gry-Brown, Grainy in Most, Silty Breaks, Few Pcs LS Interbedded/Transition, Few Lt Gry Pcs Sandy/granular, Vari Color Grain(Black,Grays,Crm)

SH - Lt Gry, Grainy, Black/Brown Spotting, V SS Like, Sandy Breaks, MD Firm, Black/Brown - Smooth, Chalky, Silty Breaks, V Faint Vis Gas Bubbles; LS - Few Crm-Wht, Chalky, Soft, Cherty in Some, FN XLN

SH - LT Gry, Granular(Black,Brown,Red/Orange) V SS Like, Vis Pors, Gas Bubbles on Breaks,

SH - LT Gry, Granular(Black,Brown,Red/Orange) V SS Like, Vis Pors, Gas Bubbles on Breaks, LT Gry SH seems to be Smoothing out; LS - Crm-Caramel, Cherty, MD XLN, Fluor in Few Pcs LS With Slight Staining,

SH - Lt-Dark Gry,Chalky, Silty Breaks, appears sucrosic in few, MD/Firm Breaks, sandy in few pcs w/ Black/Brown Staining

SH - As Above

LS - Crm-Wht, Cherty in most, MD Breaks, Few Brown Pcs, Firm, Dense, FN XLN, Good Friab,

LS - Crm-Brown, Mostly Cherty, FN/M XLN, Firm Breaks, Abndt ool Foss Pors; SH - Lt/Dark Gray, Chalky, Silty Breaks, Few LT Grn Pcs

As above, Decrease in Brown LS, Decrease in Lt Gry SH

3900

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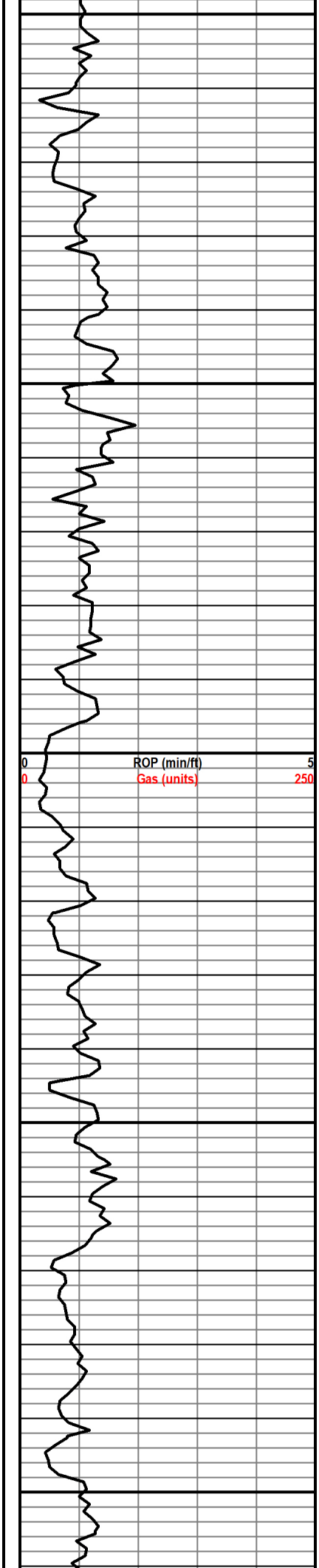
4000

4050



LS - Cm-Caramel, FN/MD XLN, Firm Breaks, Fair Friab, Ool Foss Throughout

LS - Crm-Wht-Caramel, Dark Staining Throughout, FN/MD XLN, Firm Breaks, Good Friab

LS - Crm-Wht-Caramel, Cherty in Most, FN XLN, Dark Staining and Foss Throughout, Few Foss Pors Vis, MD/S Breaks

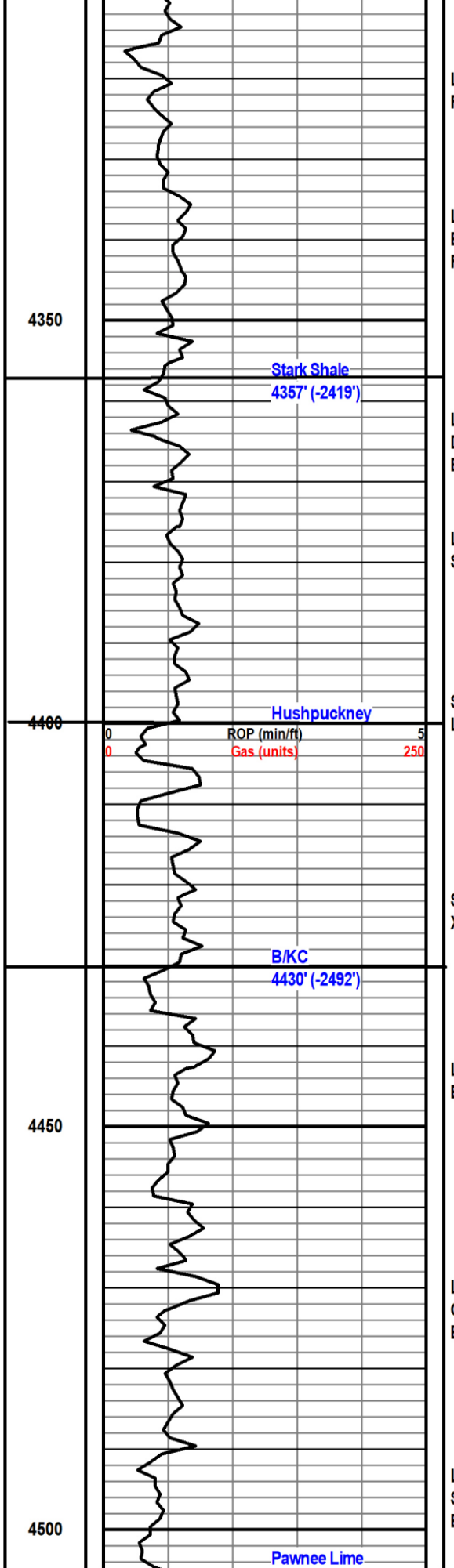
LS - Crm-Wht-Tan, FN XLN, Firm/MD Breaks, Cherty in Most, Dark Staining of Fractures; CH - Opaque-Tan-Brown, Dense, M XLN, V Firm Breaks

LS - Crm-Wht-Tan, FN XLN, Firm/MD Breaks, Cherty in Most, Dark Staining of Fractures; CH - Opaque-Tan-Brown, Dense, M XLN, V Firm Breaks

LS - Crm-Wht-Tan, FN XLN, Firm/MD Breaks, Cherty in Most, Few Vis Foss Pors

LS - Crm-Caramel, Mostly Chalky, MD Breaks, Few Vis Foss Pors, V Few Dark Stainings Throughout, FN XLN Tan Pcs, Firm Breaks, Sl opaque in some Tan

4100
4150
4200
4250
4300



LS - Crm-Brwn, Cherty in Most, Vis oolite Pors in some, FN/M XLN, Glass Breaks on Few

LS - Crm-Wht-Caramel, Chalky, MD Breaks, Cherty in Some, FN-MD XLN, Firm Breaks, Good Friab, Few Foss, Dark Staining Throughout; Few Pcs LS w/ Pinpoint Fluor,

LS - Crm-Wht-Caramel, Cherty, FN XLN, Firm Breaks, Fair Friab, Few Pcs Lt Tan, Dark Staining Throughout, Few Vis Gas Bubbles; Few Pcs SH - Brwn-Black, MD Break, Silty Breaks

LS - Crm-Wht-Caramel, Cherty, FN XLN, Firm Breaks, Fair Friab, Few Pcs Lt Tan Dark Staining; Few Pcs SH - Dark Brown/Black, Chalky, Silty Breaks, MD Firm,

SH - Black/Brown-LtGry, Smooth, Chalky, MD Breaks, Silty, Sl Sucrosic Appearance; LS - Crm-Brown, Cherty, FN/M XLN, Firm Breaks

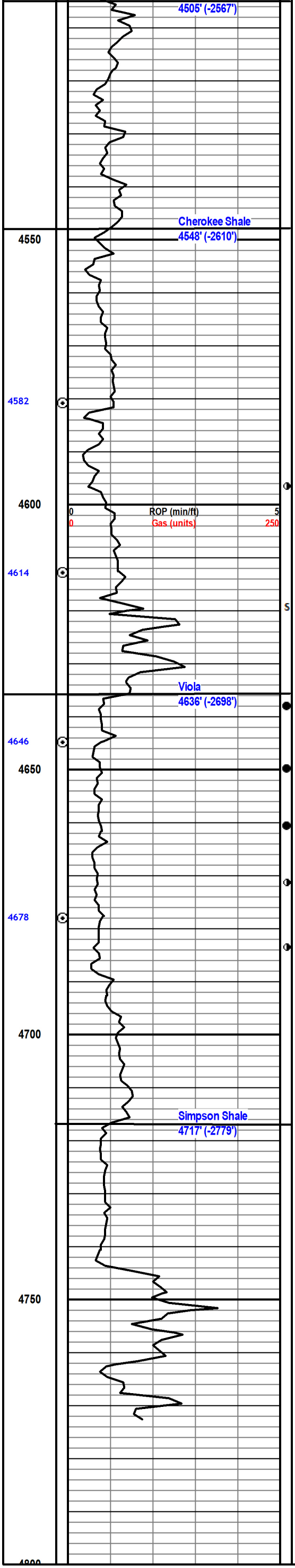
SH - Black/Brown, Smooth, Chalky, MD Breaks, Silty; LS - Crm-Brown, Cherty, FN/M XLN, Firm Breaks, Few Dark Stained

LS - Crm-Brwn, Sucrosic in Some, Cherty in most, Firm Breaks, FN/M XLN; SH - Black-Brown, Sucrosic, Soft Break, Silty on Break

LS - Crm-Wht, Tan, Cherty in most, FN/M XLN, Dark Staining in few, Firm Breaks, Glasslike Breaks, Fair Friab; SH - Lt Gry-Brwn & some green; Fossil incls abdt, Silty Breaks, MD Firm,

LS - Crm-Lt Tan w/ Caramel, Cherty in most, Few Pcs Dark Staining, FN/M XLN, Sharp Breaks, Fair Friab; SH - Lt Gry/Grn w/ Red Hue, Soft Break, Chalky, Silty on Break

4350
4400
4450
4500



LS - cream to tan, caramel; brown; fn xln in most w/ some v. fine to micro-xln; sb cherty w/ vis foss in many; some vis fract'd & sl dissolution porosity; oa well compacted & dense; few sptd webbed stains; sm chalky

SH - influx deep grey to black; sl metallic sheen in some w/ smooth glassy edges; brittle to friab; sm vis laminations w/ few gas bubbles w/ break

SH - flood varicolored shales; mottled w/ stringers LS & marbled vari-color & txtured shales; maroon to green, grey, blue - yellow; rework-conglomerate

SH - varicolored w/ mostly red/brick to purples & greens; abdt LS - cream w/ mineral staining throughout; some interbedded; sm argillaceous; traces CH - vitreous, varicolored; appear non-weathered; fresh w/ dense & sharp edges

SH - varicolored greens to maroons; sl grey-blue; mottled w/ traces sandy txture (shalebound) increasing chert throughout; cream to light colored w/ pale pink-green surface staining; vitreous w/ smooth glassy txture w/ no vis primary porosity; sl surface staining in few w/ 2-3 pcs spotted brt yellow fluor w/ live movement in tray; quest odor

LS - cream to white w/ dark webbed fractured staining; dolomitic xln % in most pcs w/ fair friability; dark staining w/ vssfo on break; fleeting shows v. light, translucent w/ green-yellow fluor in ~10% rox CH - peach to org, opaque to semi translucent; mst vitreous w/ weathered edges & dark stainig; surface stained edges w/ traces fluor; fair odor in cup

LS - dolomitic w/ interbedded CH; LS white w/ peach to cream mineral & dark weathered staining; sl granular to chlky txture; dark webbed in ~30%; slight odor; ~3-5% spotted fluor; flood chert; cream to peach; semi-translucent; vitreous w/ sharp conchoidal wavy fractures; poorly weathered w/ limited vis porosity; black flakes on edges; poor show

Dolomite - cream to buff, fn xln sucrosic in most w/ sm med xln; good vis xln pors & sm sl dissolution/re-xln devel; scattered partial staining w/surface show in few; fair -gd friab break w/ show lt brn-gld free oil (pp-scattered) good yellow fluor w/ fair-gd cup odor

CH-white w/ lt brown to golden stained vugs; re-xln dolomite & flood clean dolomite. Fine xln sucrosic w/ some sl med xln; good saturated stain w/ shows lt golden free oil on break; cup odor & bright yellow Fluor

Dol - cream to buff w/ partial saturated stain; fn-med xln sucrosic w/ good consistent xln txture & porosity; surface shows lt golden/honey color oil w/ increase on break; nicely friab w/ some pcs lt grey appearing in 40" w/ barren pors; oa fair to good shows decreasing to fair shows (10-15%) fluor in 60" sample

Dolomite - cream to buff w/ some lt grey; fine xln sucrosic w/ sm med xln; fair to good vis xln pors w/ good friab; decreasing sat stn & shows w/ sm pieces lt grey dolomite w/ barren, chalky break; some loose sticky white clays wash cloudy; fair % clean dolomite w/ ~15% w/ commercial shows; questionable cavings

SH - flood green shale w/ moderate to high % sand content; dark green w/ some visible dark swirling locked up in shale; break releases streaks tarry residual specks w/ sticky/clingy feel; no fluor; SS inclusions are qtz; fine grain well rnd & std w/ poorly friable clusters (trapped in shales) fair amount pyrite xln dev within shales among sand grains

SH - dark green silty to partly sandy; smooth waxy txture in some w/ soft to sl brittle break; few w/ dark tarry spots; decreasing & decreasing overall % visible SS; mostly dark blue-green, Simpson Type shale

SH - flood turqoise green; smooth txture w/ blocky visible laminations; appears brittle w/ sl dense break

4550

4600

4650

4700

4750