KOLAR Document ID: 1476259

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 # 33937
Name: Neal LaFon Realty Inc. dba Meridian Energy Inc.
Address 1: 1475 WARD DR
Address 2:
City: FRANKTOWN State: CO Zip: 80116 + 9405
Contact Person: Maxwell LaFon
Phone: (303) 303-594-0515
CONTRACTOR: License # 35678
Name: Flex, Inc dba Flex Drilling
Wellsite Geologist: Maxwell LaFon
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 #:

7/15/2019	7/21/2019	7/22/2019
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-153-21237-00-00
Spot Description:
NW - SE - SE - NW Sec. 24 Twp. 2 S. R. 32 ☐ East ☑ West
2000 Feet from ☑ North / ☐ South Line of Section
2210 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: Rawlins
Lease Name: KETTERL Well #: 1
Field Name:
Producing Formation: none
Elevation: Ground: 2875 Kelly Bushing: 2881
Total Vertical Depth: 4130 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 22 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: 1500 ppm Fluid volume: 400 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: 10/18/2019
☐ **Confidential Release Date:** 10/17/2021
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 10/22/2019

Operator Name: Neal LaFon Realty Inc. dba Meridian Energy Inc. Lease Name: KETTERL Well #: 1

Sec. 24 Twp. 2 S. R. 32 ☐ East ☑ West County: Rawlins

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	☐ Log Formation (Top), Depth and Datum ☐ Sample
Samples Sent to Geological Survey	☑ Yes	☐ No	Name: Attached Top: Attached Datum: Attached
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:

Resistivity
Porosity
Micro

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	222	common	175	2% gel, 3.5%CC

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:	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:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

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)*

TUBING RECORD: Size: Set At: Packer At:

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

Form	ACO1 - Well Completion
Operator	Neal LaFon Realty Inc. dba Meridian Energy Inc.
Well Name	KETTERL 1
Doc ID	1476259

Tops

Name	Top	Datum
Stone Corral	2652	+229
Neva	3240	-359
Red Eagle	3318	-437
Foraker	3362	-481
Topeka	3636	-755
Oread	3686	-805
Toronto	3784	-903
Lansing	3870	-989
BKC	4082	-1201

Form	ACO1 - Well Completion
Operator	Neal LaFon Realty Inc. dba Meridian Energy Inc.
Well Name	KETTERL 1
Doc ID	1476259

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	222	common	175	2% gel, 3.5%CC

GLOBAL OIL FIELD SERVICES, LLC

13768

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE 7-15-19	SEC. 24	TWP. 25	RANGE 32W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 6:15am
LEASE Keller	WELL # 1		LOCATION North of Hooker KS			COUNTY Rawlins	STATE KS
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Flex Drilling
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D.
CASING SIZE 8⅝ DEPTH 222'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 25'
PERFS
DISPLACEMENT

EQUIPMENT

PUMP TRUCK # 409 CEMENTER Cody
HELPER Jason
BULK TRUCK # 197 DRIVER Eddie
BULK TRUCK # DRIVER

OWNER Meridian Energy
CEMENT
AMOUNT ORDERED 175sks Com 3%cc 2%Gel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING		@	
MILEAGE			

TOTAL

REMARKS:

Ran 5 jts of 8⅝ csg set @ 222' Hooked to rig & broke circulation hooked to truck & pumped 175 sks of cement + displaced 12.5 bbls of H2O & shut in.

Cement did circulate to surface

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE @
MANIFOLD @
@
@

TOTAL

CHARGE TO: Meridian Energy
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
@
@
@
@
@

TOTAL

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
SIGNATURE

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

MAXWELL LAFON WELLSITE GEOLOGY

WELL INFO

Well Name:	Ketterl #1		
Location:	NW SE SE NW sec. 24, T. 2S, R. 32W		
Footage:	2210' FWL, 2000' FNL		
County/State:	Rawlins Co., Kansas		
Field:	Wildcat		
Coordinates:	N 39.866430 , W 100.862512		
API #:	15-153-21237		
Ground Elev:	2875'	KB Elev:	2881'
Logged Interval:	3000' - TD	Total Depth:	4130'

OPERATOR INFO

Company:	Meridian Energy Inc.
Address:	1475 Ward Cir. Franktown, CO 80116

CONTRACTOR

Contractor:	Flex Drilling		
Rig #:	1		
Rig Type:	Rotary Double		
Spud Date:	7/15/2019	Time:	10:45 AM
TD Date:	7/21/2019	Time:	3:47 AM
Rig Release:		Time:	

WELLSITE GEOLOGIST

Geologist:	Maxwell LaFon
Address:	PO Box 9867 Denver, CO 80209
Phone:	303-594-0515
Email:	mjlafon@gmail.com

DRILL STEM TESTS

No.	Interval	Formation	Recovery

No DSTs run

FORMATIONS

Formation	*Depth - Samples*	*Depth - Logs*	*Subsea*
Stone Corral	*2650' (+231)*	*2652'*	*+229*
Neva	*3236' (-355)*	*3240'*	*-359*
Red Eagle	*3315' (-434)*	*3318'*	*-437*
Foraker	*3360' (-479)*	*3362'*	*-481*
Topeka	*3630' (-749)*	*3636'*	*-755*
Oread	*3682' (-801)*	*3686'*	*-805*
Heebner	*3717' (-836)*	*3716'*	*-835*
Toronto	*3786' (-905)*	*3784'*	*-903*
Lansing A/KC	*3840' (-959)*	*absent*	*absent*
Lansing B	*3870' (-989)*	*3870'*	*-989*
Lansing C	*3929' (-1048)*	*3923'*	*-1042*

Lansing D	*3974' (-1093)*	*3963'*	*-1082*
Lansing E	*4007' (-1126)*	*4004'*	*-1123*
Lansing F	*4052' (-1171)*	*4041'*	*-1160*
Base Lansing/KC	*4083' (-1202)*	*4082'*	*-1201*
TD	*4130'*	*4130'*	

ROCK TYPES

Cht, Lmst fw7>, Lmst fw<7, Ss, Shgy, Shblck, Shcol, Sltst, Anhy vert

OTHER SYMBOLS

OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- Dead Oil Stn
- Fluorescence

MISC
- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST
- DST Interval
- DST Interval

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

ROP
ROP (min/ft)
1:240 Imperial
0 ROP (min/ft) 10

Depth | Intervals
Cored Interval
DST Interval

DST
DST Interval
DST Interval

Interpreted Lithology

Oil Shows

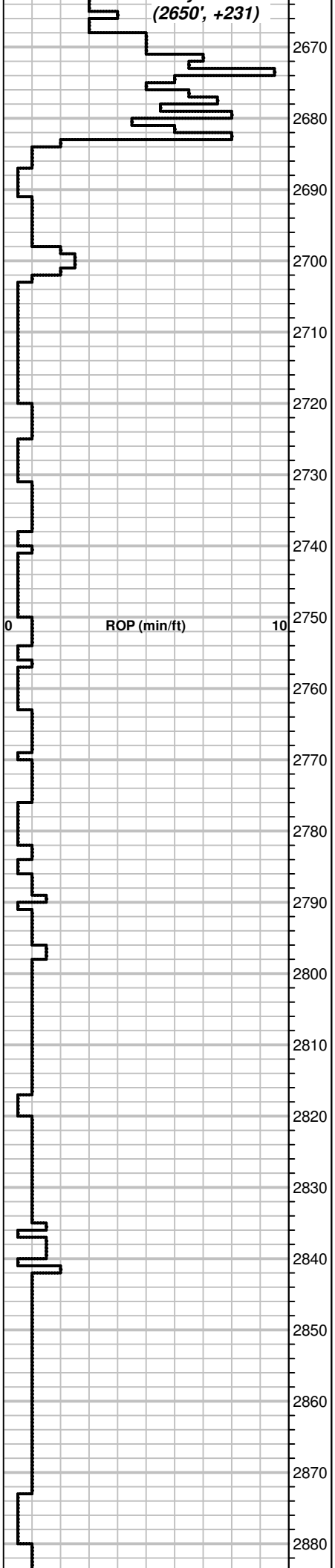
Geological Descriptions

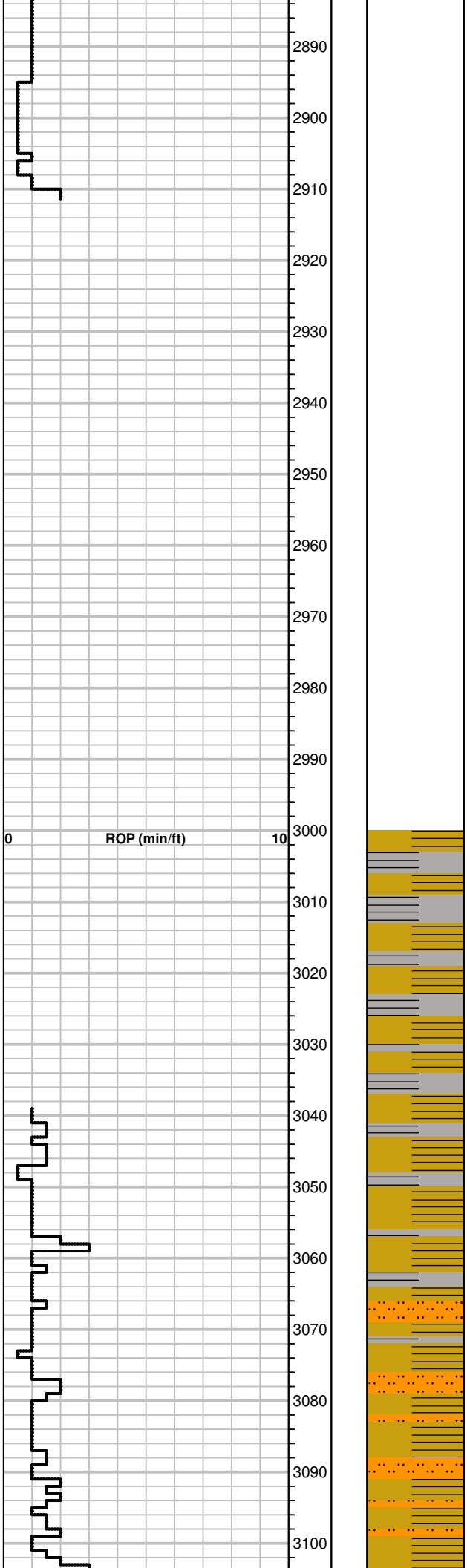
Comment

2590
2600
2610
2620
2630
2640
2650
2660

Stone Corral Anhydrite

Survey 7/15/19 @ 222' 0.75*


(2650', +231)
2670
2680
2690
2700
2710
2720
2730
2740
0
ROP (min/ft)
10
2750
2760
2770
2780
2790
2800
2810
2820
2830
2840
2850
2860
2870
2880

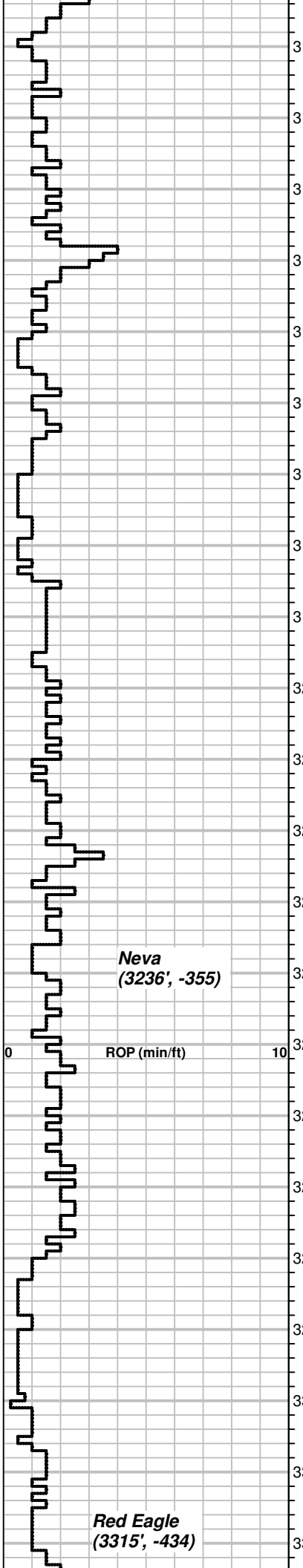


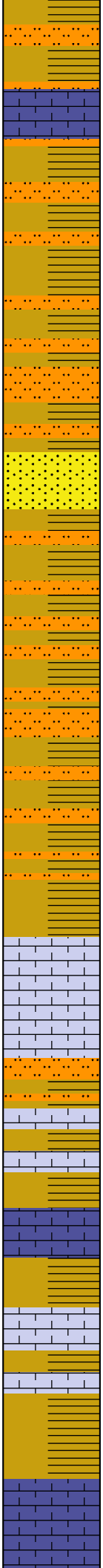
3000-3032 Sh dk gry/grn/red

3032-63 As above

3063-98 Sh arg red, Tr Sh grn

Bit trip, PDC for cone
Survey 7/19/19 @ 3000' 0.5*
Pipe Strap - 1.5' short





3098-3133 Sh arg red, Tr LS lt. gry xtln, very hard, no por, NS

3133-49 Sh arg red

3149-60 Sh arg red beds

3160-73 As above, Tr SS white very fine grnd, friable, fair por, NS

3173-90 Sh arg red

3190-3201 As above, Tr Sh grn

3201-14 Sh arg red beds, cly

3214-22 Sh arg red

3222-30 As above

3230-43 50/50 Sh/LS. Sh arg red, LS lt. gry/white grnstn, some oolitic, hard, no por, NS

3243-54 Mostly LS as above, LS lt. gry very fine grnstn, slightly friable, no por, NS. Tr Sh red

3254-65 LS white - lt. tan coarse grnstn, hard, no por, NS. Sh arg red, LS lt. gry fine xtln, very hard, no por, NS

3265-68 As above

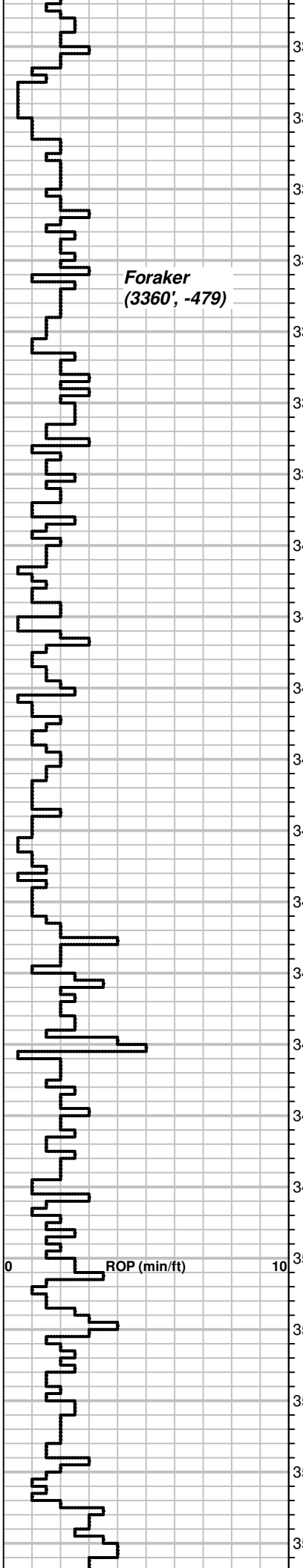
3268-71 As above

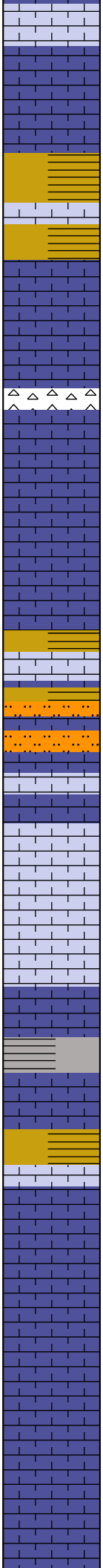
3271-76 Sh arg red, LS white very fine xtln, chlky, very friable, no por, NS, Mostly Sh

3276-85 Mostly Sh red, LS gry xtln, very hard, no por, NS. LS cream med grnstn, very hard, no por, NS

3285-3311 Sh red, LS grnstn as above, fossiliferous

3311-20 Good slug Lime, LS lt. gry xtln, very hard, no por, NS





3320-29 LS lt. gry opaque fine xtln, very hard, no por, NS. LS lt. gry grnstn, partly rextlzd, very hard, no por, NS

RS Drilling Technologies
Mud check 7/19/19
Depth: 3320' Btms Up: 32 min
Wt: 8.5 Vis: 51 Filt: 8.4
Cake: 1/32" LCM: 1.5# YP: 20
Chlor: 1500 ppm Grad: 0.442 psi/ft

3329-45 LS lt. gry xtln and very fine xtln, very hard, no por, NS

3345-55 50/50 Sh/LS, Sh red, LS lt. tan xtln, very hard, no por, NS, LS lt. tan grnstn, very hard, no por, NS

3355-65 LS lt. gry fine xtln, very hard, no por, NS. Sh red

3365-76 LS cream xtln, very hard, no por, NS. LS multi colored, brwn/gry/tan grnstn, very hard, no por, NS. Tr LS white chlk

3376-83 LS lt. tan xtln very hard, no por, NS. LS dk gry xtln, very hard, no por, NS. Tr Chert clear/orange

Wt. 8.6
Vis 54

3383-90 LS gry - dk gry med xtln, very hard, no por, NS

3390-99 As above

3399-3409 LS lt. gry very fine xtln, hard, no por, NS. LS lt gry xtln, very hard, no por, NS.

3409-18 Tr Sh red cly, LS gry grnstn, hard, no por, NS, Some LS xtln as above

3418-23 Sh arg red, dk gry, LS lt. tan xtln, very hard, no por, NS

Wt. 8.6
Vis 51

D

3423-38 LS lt. tan/gry microxtln, Sh arg red, One cutting white grnstn, very hard, very poor por, ***slight dead bitumen stain***, NSFO

3438-58 LS lt. gry med grnstn, very hard, poor por, NS

3458-66 As above, Also LS dk gry - gry dirty xtln, very hard, no por, NS

3466-74 As above, Sh dk gry

3474-82 LS lt. gry xtln, very hard, no por, NS. LS lt. gry coarse xtln, very hard, no por, NS

3482-96 Sh red, cly, LS lt. tan/brwn microxtln, very hard, no por, NS. LS cream grnstn, slightly friable, poor por, NS

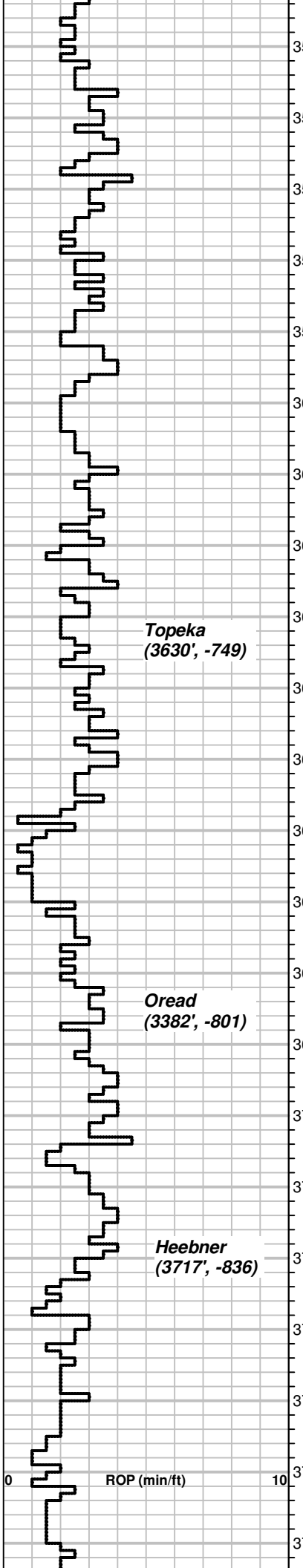
3496-3506 LS lt. gry/grn microxtln - xtln, hard, no por, NS

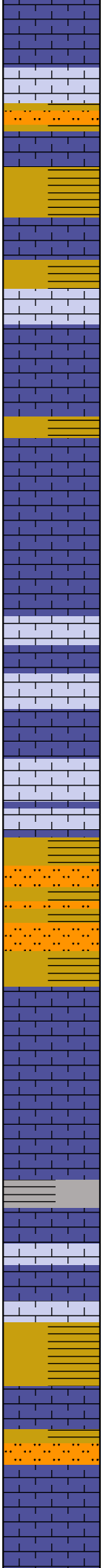
Wt. 8.6
Vis 51

3506-14 As above

3514-27 LS gry - dk gry med xtln, very hard, no por, NS. LS lt. gry xtln, very hard, no por, NS

3527-39 As above





3539-49 LS dk gry xtln, very hard, no por, NS

3549-60 LS lt. gry xtln, very hard, no por, NS. LS lt. tan fine grnstn, hard, no por, NS. Tr Sh arg red

3560-69 All Lime, LS lt. gry and tan med xtln, very hard, no por, NS

3569-79 Sh red, LS lt. gry xtln, very hard, no por, NS. LS gry microxtln, very hard, no por, NS

3579-89 Sh red, LS cream grnstn, hard, no por, NS. LS lt tan microxtln, very hard, no por, NS

Wt. 9.0
Vis 48

D

3589-98 LS cream med - coarse xtln, hard, poor por, few cuttings w/ ***dead bitumen stain***, NSFO

3598-3609 LS lt. tan med xtln, hard, no por, NS. Tr Sh red

3609-18 LS as above

3618-28 LS lt. gry microxtln, very hard, no por, NS. LS lt. purple xtln, very hard, no por, NS

3628-40 Sh red, Mixture of LS, LS tan grnstn rextlzd, very hard, no por, NS. LS lt. gry microxtln, very hard, no por, NS. LS lt. purple arg xtln, hard, no por, NS

3640-48 Good slug Lime. LS cream grnstn, slightly friable, poor - no intrgrn por, ***fair shw free oil in some cuttings when broken, very tight, poor sat***. LS white xtln, very hard, poor intrxtln por, very few cuttings w/ ***dead oil stain, poor shw free oil when crushed,*** no odor

Topeka - 3648.JPG

3648-51 LS grnstn from above, rextlzd, very poor intr grnlr/xtln por w/ same ***poor shw free oil,*** very tight, no odor. LS lt. tan/cream med xtln, very hard, no por, NS

3651-61 LS grnstn from above, NS. LS white xtln, very hard, no por, NS

3661-79 Sh arg red

3679-91 50/50 Sh red, LS cream med xtln, very hard, no por, NS

3691-99 LS as above, LS lt. gry microxtln, very hard, no por, NS

3699-3711 LS lt. gry xtln and microxtln, very hard, no por, NS

3711-17 As above, Tr Sh dk gry

Wt. 9.1
Vis 46

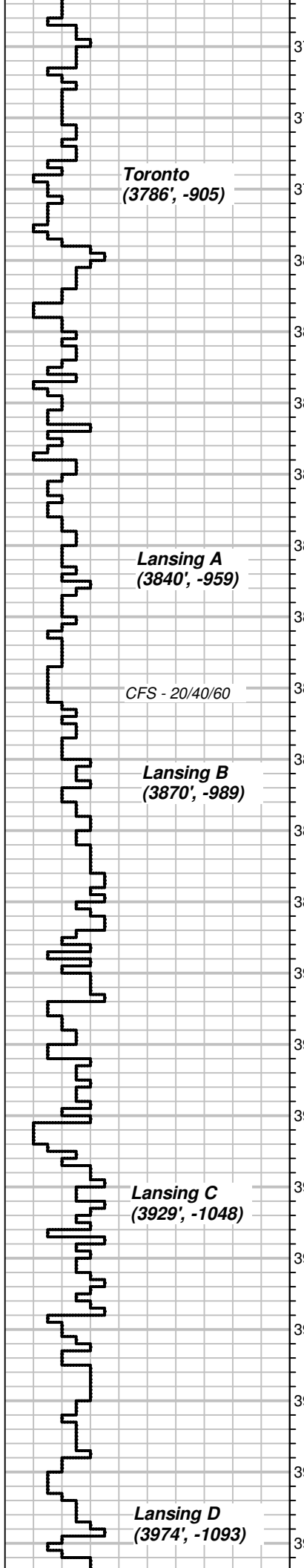
3717-25 LS cream fossiliferous grnstn rextlzd, very hard, no por, NS. LS gry microxtln, very hard, no por, NS

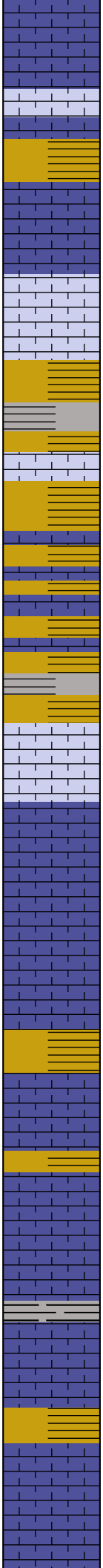
3725-32 LS lt. tan grnstn, slightly friable - hard, poor por, NS. Chert clear/white opaque, some Sh red and dk gry

3732-40 Sh red, mostly cly, LS gry xtln, very hard, no por, NS

3740-53 LS cream fine xtln, hard, no por, NS. Some Sh red arg

3753-65 As above, LS gry/brwn microxtln, very hard, no por, NS





3765-73 LS cream xtln - med xtln, hard, no por, NS

3773-83 LS gry microxtln, very hard, no por, NS. LS lt. tan grnstn rextlzd, no por, NS. Sh dk gry

3783-93 LS white xtln, very hard, no por, NS. Some Sh red

KS Drilling Technologies
Mud check 7/209
Depth: 3791' Btms Up: 36 min
Wt: 9.1 Vis: 44 Filt: 12.8
Cake: 1/32" LCM: 1.5# YP: 15
Chlor: 1500 ppm Grad: 0.473 psi/ft

3793-3802 As above, Also LS gry microxtln, very hard, LS lt. tan microxtln, very hard, no por, NS

3802-12 LS white fine grnstn, slightly friable, no por, NS

3812-22 As above, Sh red and dk gry

D 3822-34 As above, more Sh, Some LS w/ ***dead tarry bitumen stain***

3834-42 Sh red, Trace LS cream xtln, very hard, no por, NS

3842-51 Some Sh red, LS lt. tan microxtln, very hard, no por, NS. Tr LS lt. gry xtln, very hard, very poor por, very few grains w/ ***poor shw free oil, poor sat in cutting***. No clear Lime top in samples. Lots of Sh mixed with LS.

Lansing A - 3851.JPG

3851-59 LS cream/white xtln, very hard, no por, NS. Some Sh red

3859-66 Sh red. Tr Sh dk gry

3866-79 Good slug Lime. LS lt. gry grnstn, some fossiliferous grnstn, slightly friable, poor intr grnlr por, ***lots of oil stain when broken, fair shw free oil, good odor***, tight. ***few drops oil in cup, weak cut.*** Mostly LS gry/blue microxtln, very hard, no por, NS

Lansing B - 3879 .JPG

3879-88 LS lt. tan/white microxtln, very hard, no por, NS. Tr LS grnstn from above w/ ***same show, slight odor***

Lansing B - 3888.JPG

3888-95 As above

3895-3906 LS lt. gry microxtln

Wt. 9.1
Vis 55

3906-15 LS lt. tan xtln, slightly friable, no por, NS. Tr Sh red, LS brwn coarse xtln, very hard, no por, NS

O 3915-28 LS lt. gry microxtln, very hard, no intrxtln por, very small pinpoint vugs scattered on surfaces, some w/ ***oil stain.*** NSFO. Mix of other LS. LS lt. tan fine xtln, very hard no por, NS, Sh red

3928-37 LS lt. gry microxtln, very hard, no por, NS. one cutting w/ small sparse vugs, ***oil stained*** when broken, ***fair show free oil in vug***

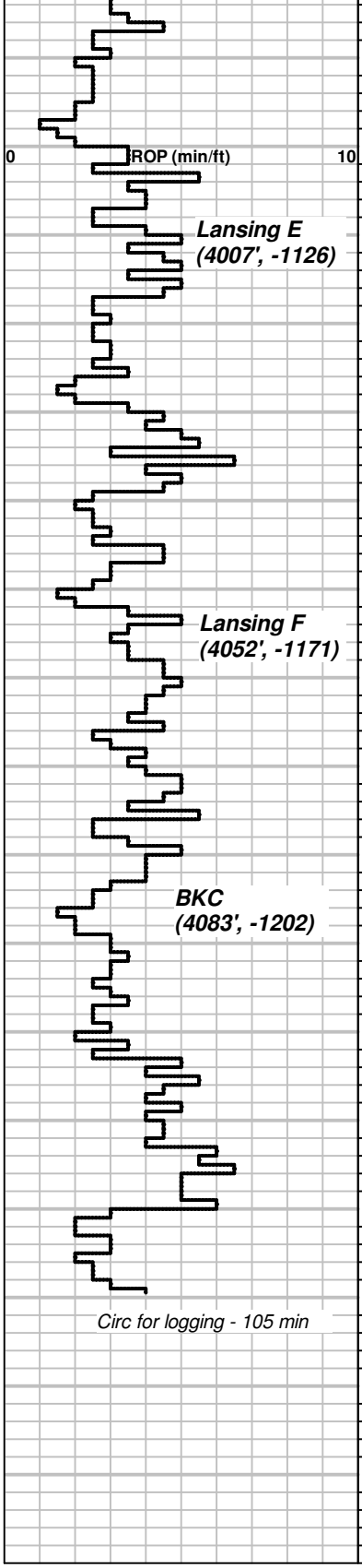
3937-47 LS lt. tan xtln and microxtln, very hard, no por, NS. Tr Sh black

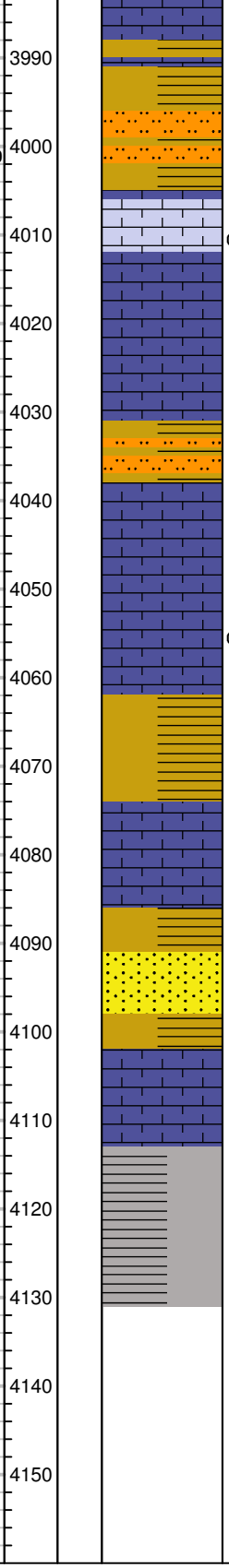
3947-56 L dk gry xtln, very hard, no por, NS. Tr LS lt. gry microxtln, very hard, no por, NS

3956-64 LS brwn/dk gry coarse xtln, very hard, no por, NS. Some LS white xtln, very hard, no por, NS. Sh red

O 3964-78 Good slug Lime. LS white xtln, hard, no por. One cutting in 2 trays w/ ***free oil shw.*** very sparse, ***bleeding when crushed***, looks wet and tight. LS white very fine xtln chly, no por, NS.

Lansing D - 3978.JPG





3978-86 As above

3986-92 Moslty Sh red, LS white xtln and fine xtln, very hard, no por, NS

3992-4001 Mostly Sh arg red. LS lt. tan xtln, ,very hard, no por, NS

4001-07 As above 50/50 Sh/LS

4007-11 Good slug Lime. LS cream fine grnstn, friable, poor por, ***poor shw free oil when crushed, low sat.*** appears wet, ***faint odor***. LS lt. tan xtln, very hard, no por, NS

Lansing E - 4011.JPG

4011-17 LS lt. gry microxtln, very hard, no por, NS

4017-32 LS as above, LS white, very fine xtln chly, friable, no por, NS

4032-38 Sh arg red, Tr LS from above

Wt. 9.3
Vis 52

4038-50 LS gry coarse xtln, very hard, no por, NS. LS white fine xtln, friable, no por, NS

4050-61 As above, LS white xtln, hard, poor intrxtln por, ***poor shw free oil when crushed.*** tight, no odor, ***sparse show***

Lansing F - 4061.JPG

4061-71 Sh red cly, LS gry/brwn arg, very hard, no por, NS, Sh purple

4071-78 Ls white - lt. gry, xtln, very hard, no por, NS. Sh red

4078-87 LS gry microxtln, very hard, no por, NS

4087-4102 SS lt. gry fine grnd, very friable, good por, NS. Sh red

4102-13 LS gry xtln, very hard, no por, NS

4113-18 As above, Sh gry cly

KS Drilling Technologies
Mud check 7/21/19
Depth: 4130' Btms Up: 39 min
Wt: 9.2 Vis: 51 Filt: 10.4
Cake: 1/32" LCM: 1.5# YP: 20
Chlor: 1500 ppm Grad: 0.478 psi/ft

4118-24 Sh gry cly

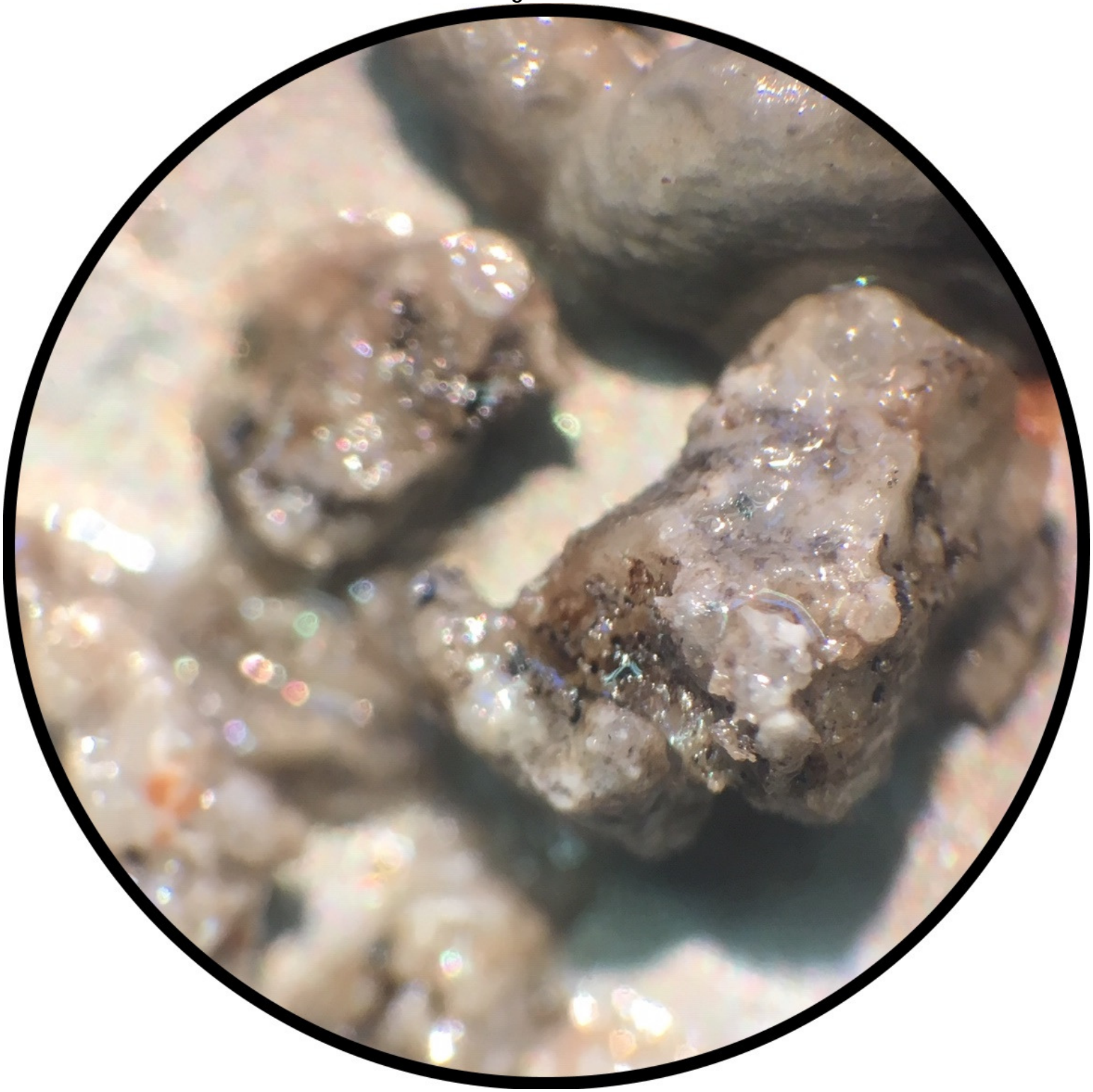
4124-30 As above

Driller TD 4130'
Logger TD 4130'

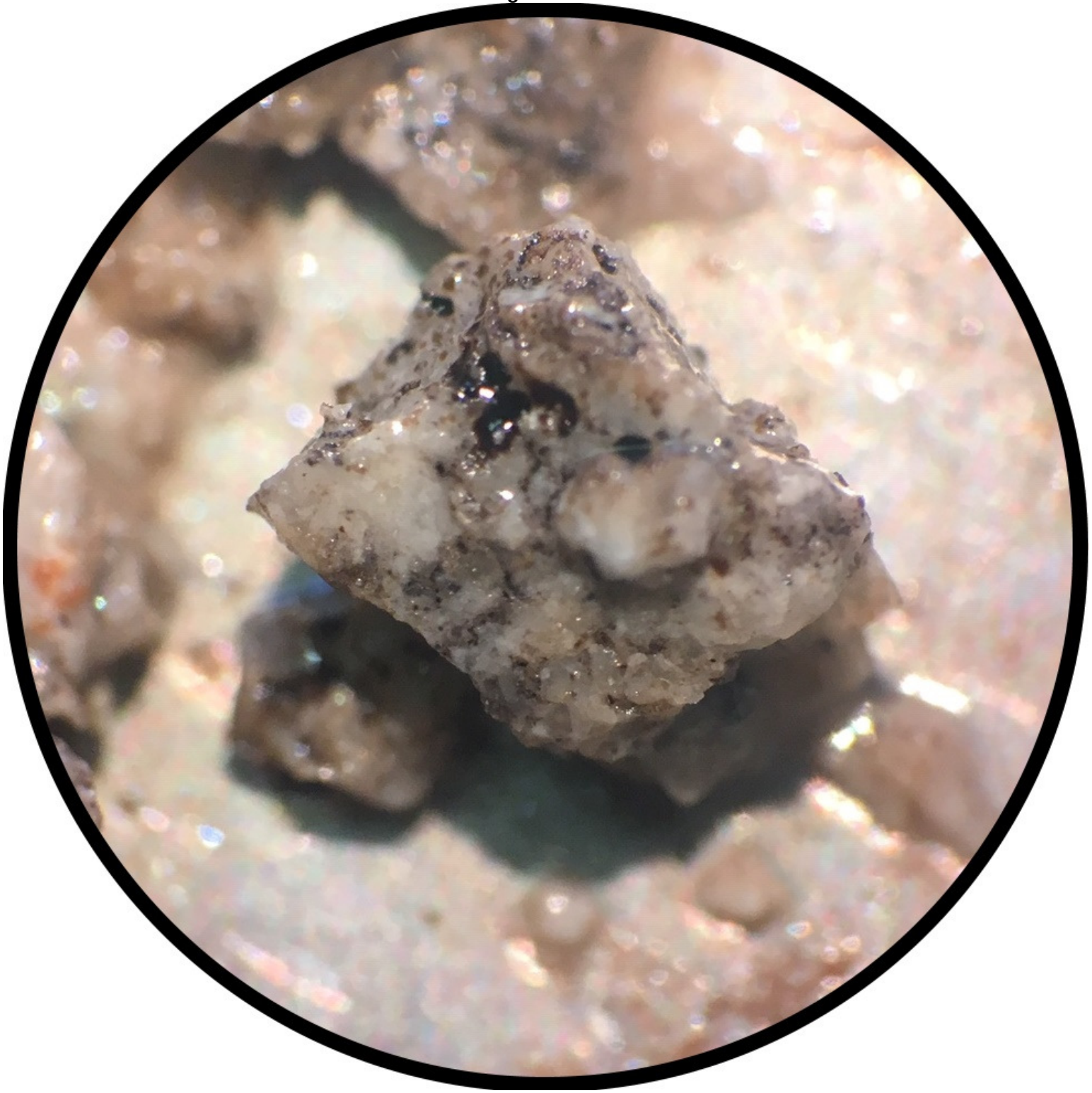
7/21/19 @ 4130'
Survey not run
Pipe Strap - 2' short

Topeka - 3648.JPG

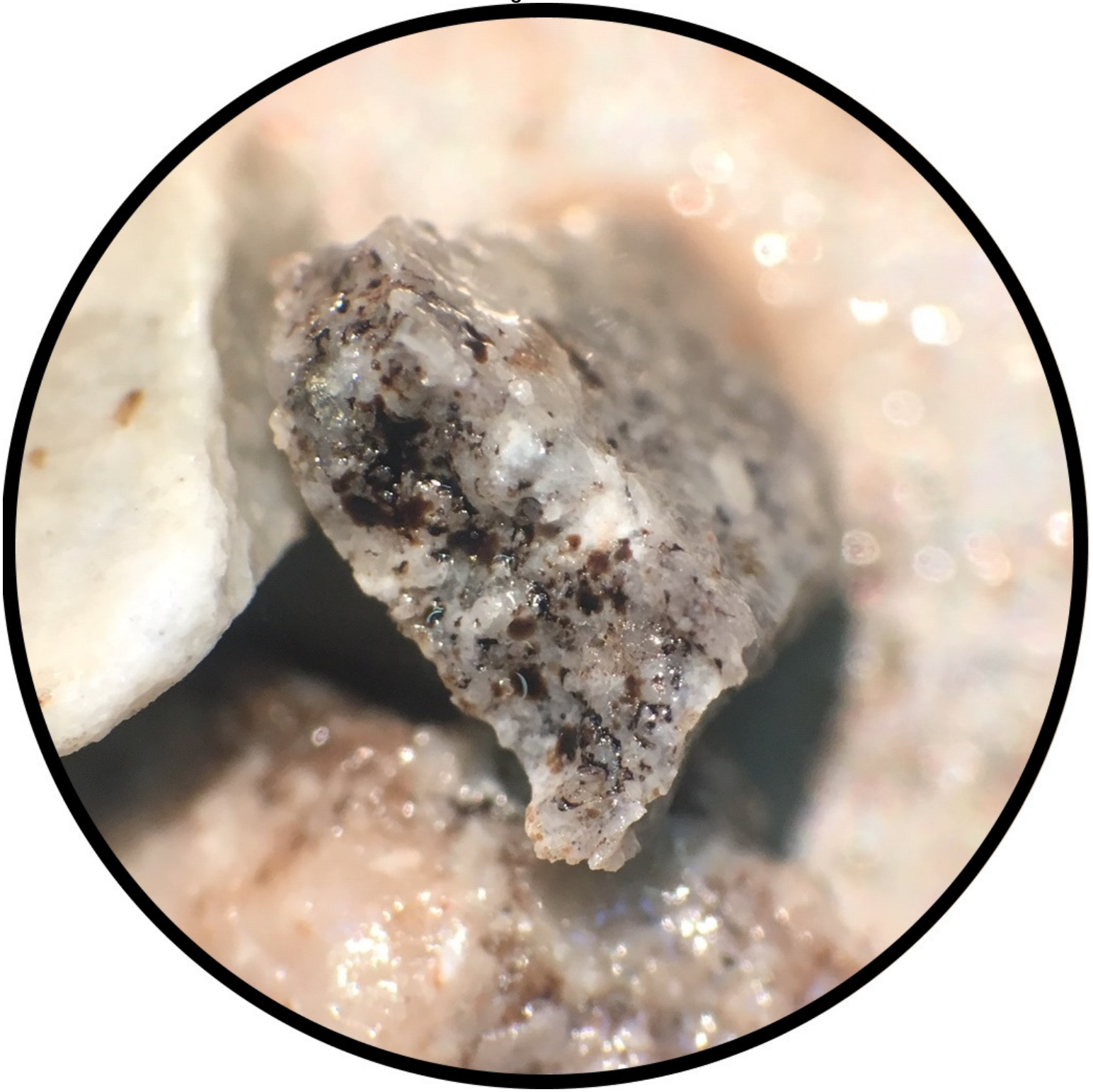
Lansing A - 3851.JPG



Lansing B - 3879 .JPG



Lansing B - 3888.JPG



Lansing D - 3978.JPG

Lansing E - 4011.JPG

Lansing F - 4061.JPG