OPERATOR

Company:	Thomas Garner, Inc.		
Address:	20 NE 20th Avenue St. John, KS 67576		
Contact Geologist:			
Contact Phone Nbr:	620-793-0766		
Well Name:	Tiger Unit #1		
Location:	Sec. 17 - T24S - R13W		
API:	15-185-24116-0000		
Pool:		Field:	unnamed
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	Tiger Unit #1		
Surface Location:	Sec. 17 - T24S - R13W		
Bottom Location:			
API:	15-185-24116-0000		
License Number:	33406		
Spud Date:	8/12/2022	Time:	8:00 AM
Region:	Stafford County		
Drilling Completed:	8/19/2022	Time:	6:00 AM
Surface Coordinates:	86' FNL & 2010' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1922.00ft		
K.B. Elevation:	1935.00ft		
Logged Interval:	3300.00ft	To:	4117.00ft
Total Depth:	4117.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:			

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-98.772395
Latitude:	37.970229
N/S Co-ord:	86' FNL
E/W Co-ord:	2010' FEL

LOGGED BY

Company:	Keith Reavis, Inc.		
Address:	3420 22nd. St. Great Bend, KS 67530		
Phone Nbr:	620-617-4091		
Logged By:	KLG #136	Name:	Keith Reavis D.J. Rebel

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	5		
Rig Type:	Mud Rotary		
Spud Date:	8/12/2022	Time:	8:00 AM
TD Date:	8/19/2022	Time:	6:00 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1935.00ft	Ground Elevation:	1922.00ft
K.B. to Ground:	13.00ft		

NOTES

Positive drill stem tests results in the Arbuckle warranted running 5 1/2" production casing to TD with the intent to produce through open-hole completion methods.

A Tooke Daq gas detection system operated by Sterling Drilling was employed during the drilling of this well. ROP and gas data, as well as Gamma and Caliper curves from the electrical log suite were imported into this report.

Respectfully submitted,
Keith Reavis

Well Comparison Sheet

	Tiger Unit #1 Thomas Garner Inc - Sec. 17-24S-13W						Offset #1 Carl #1 TGI - Sec. 8-24S-13W		Offset #2 Roenbaugh #1 DRL Oil - Sec. 17-24S-13W		Offset #3 Garner #1 W-G Oil - Sec. 8-24S-13W		Offset #4 Henderson #1 TGI - Sec. 7-24S-13W	
	Note: Arb is sample top				KB=	1935	KB=	1931	KB=	1929	KB=	1925	KB=	1926
	Log Depth	Datum	Vs. Offset #1	Vs. Offset #2	Vs. Offset #3	Vs. Offset #4	Depth	Datum	Depth	Datum	Depth	Datum	Depth	Datum
AnH	813	1122	-3	8	12	14	806	1125	815	1114	815	1110	818	1108
Heeb	3413	-1478	-1	24	-3	4	3408	-1477	3431	-1502	3400	-1475	3408	-1482
Tor	3429	-1494	2	29	3	10	3427	-1496	3452	-1523	3422	-1497	3430	-1504
Douglas	3449	-1514	1	22	-4	6	3446	-1515	3465	-1536	3435	-1510	3446	-1520
BL	3550	-1615	-2	24	2	2	3544	-1613	3568	-1639	3542	-1617	3543	-1617
LKC	3578	-1643	-4	25	0	1	3570	-1639	3597	-1668	3568	-1643	3570	-1644
BKC	3833	-1898	3	30	4	3	3832	-1901	3857	-1928	3827	-1902	3827	-1901
Miss. Cht.	absent					1955	3880	-1949	3932	-2003	3873	-1948	3881	-1955
Kinderhook	3918	-1983	-16	33		-13	3898	-1967	3945	-2016		-	3896	-1970
Viola	3968	-2033	50	39	-35	19	4014	-2083	4001	-2072	3923	-1998	3978	-2052
Simp	4056	-2121	29	77	1	46	4081	-2150	4127	-2198	4047	-2122	4093	-2167
Simp. Sand	4078	-2143	16	74	7	38	4090	-2159	4146	-2217	4075	-2150	4107	-2181
Arb	4109	-2174	28	83	14	46	4133	-2202	4186	-2257	4113	-2188	4146	-2220
RTD	4117	-2182	77	114	48	68	4190	-2259	4225	-2296	4155	-2230	4176	-2250
LTD	4116	-2181	76	111	50		4188	-2257	4221	-2292	4156	-2231		-

Drill Stem Test #1

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69531 **DST#: 1**

Test Start: 2022.08.16 @ 18:08:47

GENERAL INFORMATION:

Formation: **Lansing K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:39:27
Time Test Ended: 02:01:17

Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80

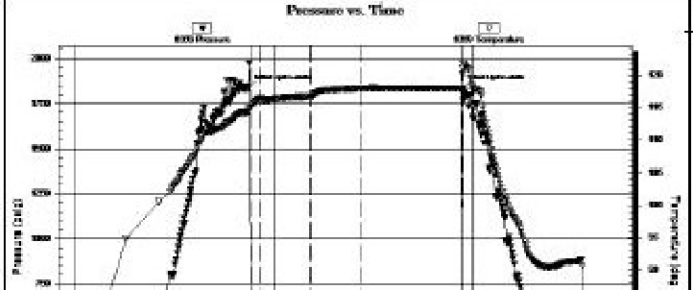
Interval: 3760.00 ft (KB) To 3788.00 ft (KB) (TVD)
Total Depth: 3788.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@Run Depth: 123.03 psig @ 3761.00 ft (KB)
Start Date: 2022.08.16 End Date: 2022.08.17
Start Time: 18:08:48 End Time: 02:01:17

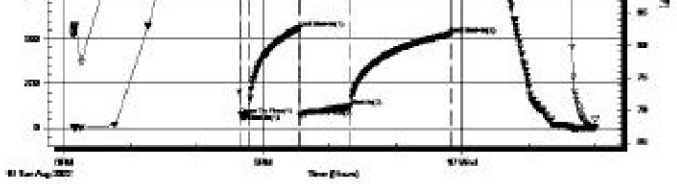
Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2022.08.16 @ 20:36:27
Time Off Btm: 2022.08.16 @ 23:50:47

TEST COMMENT: IF:Strong Building Blow built 218.06" (10)
ISI:No Blow Back (45)
FF:Strong Building Blow built 210.20"
FSI:.85" Blow Back (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.97	114.39	Initial Hydro-static
3	79.81	115.10	Open To Flow (1)
11	80.75	116.45	Shut-In(1)
56	557.05	116.72	End Shut-In(1)
58	64.39	116.67	Open To Flow (2)
103	123.03	118.02	Shut-In(2)
194	526.04	118.05	End Shut-In(2)



195	1833.13	121.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GVSOMCW 35%G 5%O 50%W 10%M	0.31
63.00	GVSOMCW 5%G 5%O 65%W 25%M	0.31
126.00	GOWCM 30%G 10%O 10%W 65%M	1.01
31.00	M 100%M	0.45
0.00	3150' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Drill Stem Test #2

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69532 **DST#: 2**

Test Start: 2022.08.17 @ 10:20:04

GENERAL INFORMATION:

Formation: **Lansing L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:34
Time Test Ended: 15:31:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

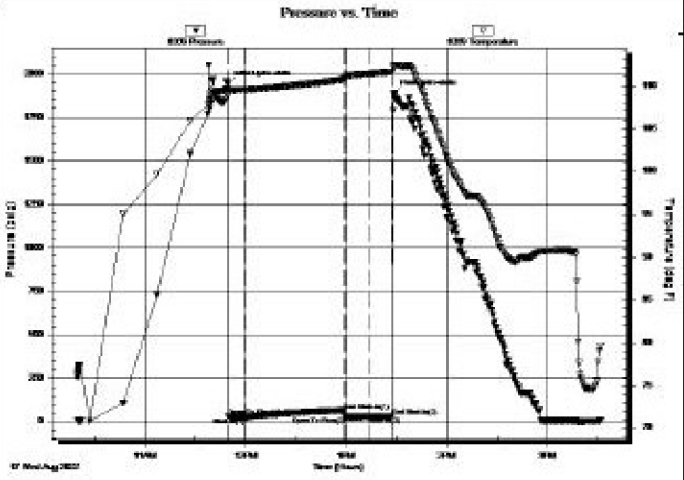
Interval: 3797.00 ft (KB) To 3825.00 ft (KB) (TVD)
Total Depth: 3825.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@Run Depth: 26.53 psig @ 3798.00 ft (KB)
Start Date: 2022.08.17 End Date: 2022.08.17
Start Time: 10:20:05 End Time: 15:31:24

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2022.08.17 @ 11:49:24
Time Off Btm: 2022.08.17 @ 13:28:34

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (10)
ISI:No Blow Back (60)
FF:No Blow (15)
FSI:No Blow Back (10)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.73	109.46	Initial Hydro-static
1	27.34	108.89	Open To Flow (1)
10	24.59	109.53	Shut-In(1)
70	61.28	110.70	End Shut-In(1)
70	26.13	110.81	Open To Flow (2)
85	26.53	111.36	Shut-In(2)
98	28.85	111.59	End Shut-In(2)
100	1884.34	112.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

*Recovery from multiple tests

Drill Stem Test #3

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69533 **DST#: 3**

Test Start: 2022.08.18 @ 16:01:21

GENERAL INFORMATION:

Formation: **Simpson sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:33:01
Time Test Ended: 23:25:11

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

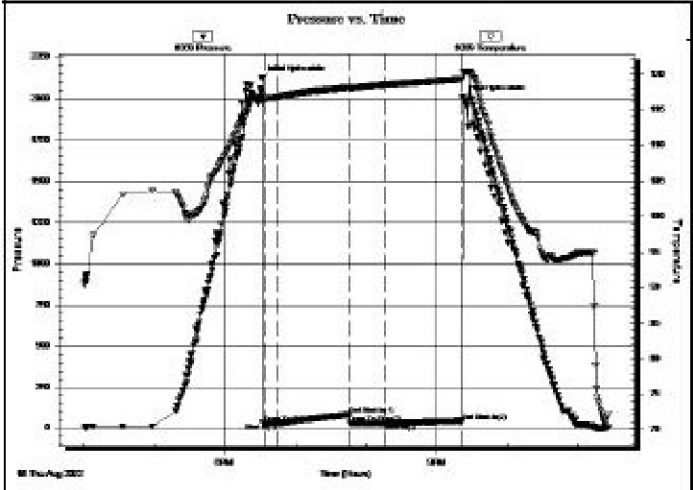
Interval: 4054.00 ft (KB) To 4100.00 ft (KB) (TVD)
Total Depth: 4100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 29.40 psig @ 4060.00 ft (KB)
Start Date: 2022.08.18 End Date: 2022.08.18
Start Time: 16:01:22 End Time: 23:25:11

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2022.08.18 @ 18:31:51
Time Off Btm: 2022.08.18 @ 21:22:00

TEST COMMENT: IF:Weak Building blow that died (10)
ISI:No Blow Back (60)
FF:No Blow (30)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.30	116.94	Initial Hydro-static
2	30.51	116.62	Open To Flow (1)
13	27.79	116.79	Shut-In(1)
74	84.25	118.12	End Shut-In(1)
74	77.40	118.12	Open To Flow (2)
104	29.40	118.46	Shut-In(2)
170	39.88	119.28	End Shut-In(2)
171	1998.77	120.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

*Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Thomas Garner Inc.
20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69534 **DST#:4**

Test Start: 2022.08.19 @ 08:08:07

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:08:37
Time Test Ended: 16:51:47

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

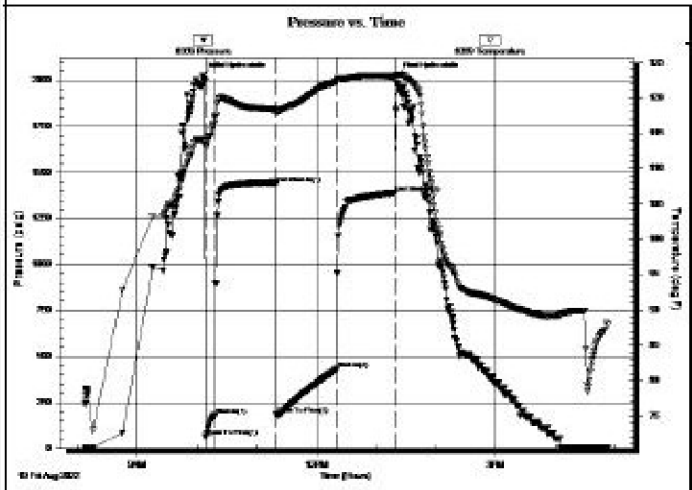
Interval: 4052.00 ft (KB) To 4117.00 ft (KB) (TVD)
Total Depth: 4117.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@Run Depth: 430.70 psig @ 4068.00 ft (KB)
Start Date: 2022.08.19 End Date: 2022.08.19
Start Time: 08:08:08 End Time: 16:51:47

Capacity: 8000.00 psig
Last Calib.: 2022.08.19
Time On Btm: 2022.08.19 @ 10:05:47
Time Off Btm: 2022.08.19 @ 13:20:27

TEST COMMENT: IF:Strong Building Blow built 19.20" (10)
ISI:No Blow Back (60)
FF:Strong Building Blow built 121.09" (60)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.35	114.01	Initial Hydro-static
3	64.15	113.18	Open To Flow (1)
13	180.66	117.20	Shut-In(1)
74	1438.20	118.31	End Shut-In(1)
74	182.13	117.86	Open To Flow (2)
135	430.70	122.34	Shut-In(2)
194	1389.17	122.98	End Shut-In(2)
195	2025.80	123.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCO 85%O 15%M	0.93
441.00	MCO 95%O 5%M	6.23
126.00	MCO 70%O 30%M	1.84
315.00	O 100%O	4.61
0.00	1134' GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

ROCK TYPES

Cht vari
Dolprim
Lmst fw<7
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red
Shcol
Ss

ACCESSORIES

MINERAL
Dolomitic
P Pyrite
Chert White

FOSSIL
Bioclastic or Fragmenta
F Fossils < 20%
Oolite
Fussilinid

STRINGER
Limestone
Siltstone

TEXTURE
C Chalky
L Lithogr

OTHER SYMBOLS

Oil Show
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- Gas

DST
- DST Int
- DST alt
- Core
- tail pipe

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

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)
1:240 Imperial

Depth | Intervals
Cored Interval
DST Interval

DST

Lithology

Oil Show

Geological Descriptions

TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
1:240 Imperial

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

3320
3340
3360
3380
3400
3420
3440

Queen Hill 3,311' (-1376)

Started 10' Samples at 3350'!

LS - Crm/Gray, Fine Xtln, dense, few pinpoint porosity, mostly tight, with a few fossils IP, pieces of soft wht chalk

LS - Crm/Gray, micro xtln, very dense, w/ poor porosity, some carbonaceous material on samples

LS - Gry/Crm, Fine to Micro Xtln, mostly dense with some edge vugs and pinpoint porosity, no show.

LS - AS Above, more Crm w/ Chalk in parts

LS - Crm fine - micro xtln, w/ pinpoint porosity, a few dense, no shows

LS - Gray/Tn - Micro Xtln, dense, with poor porosity, and various dark gray shales

LS - Crm/Lght Gray Micro Xtln, Dense, no visible porosity w/ few fossils IP, no shows no odor

LS - Gry, Micro Xtln, Very Dense, poor visible porosity,

Heebner Shale 3,416' (-1481')

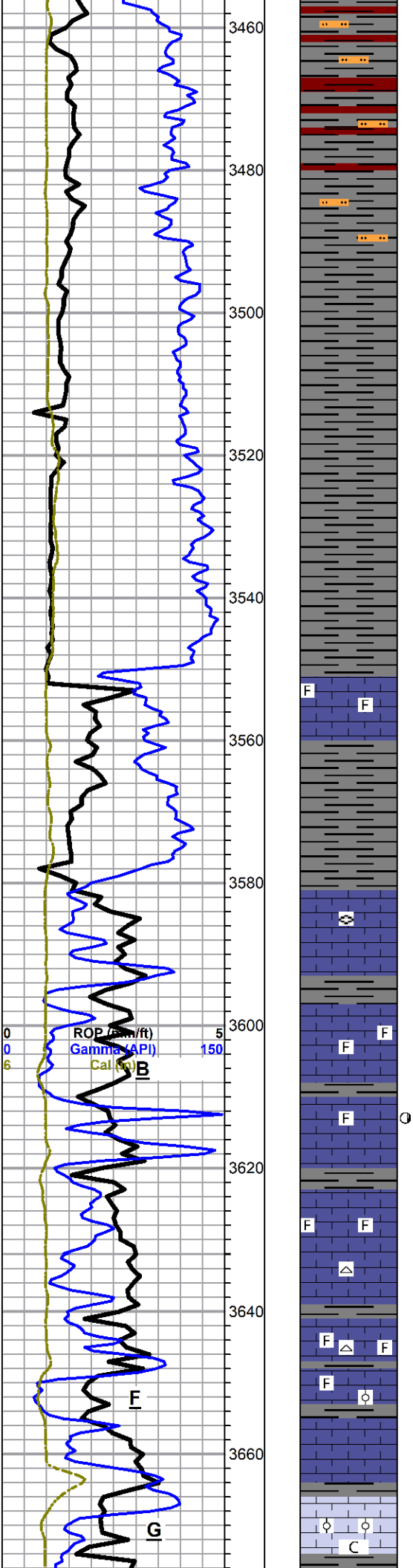
SH - Black Carb. (152 Unit Kick)

SH - Gray, Mostly Dense w/ a Few Soft, laminated and Blocky

Toronto 3,434' (-1499')

LS - Crm, Micro - Fine Xtln, mosty Dense, with a few vugs, pinpoint porosity and fossils scattered throughout. Scattered white chalk No shows no odor

Douglas 3,451' (-1516)



SH - Various Colors (Gray/Drk Gray, Maroon, Tan). Blocky to gummy. Few pieces of siltstone intermingled.

SH - As Above

SH - As above, fewer maroon shells and more gray shales. Siltstones throughout.

Sh - As Above, all gray and dark gray shales. Mostly blocky soft pieces.

Brown Lime 3,552' (-1617')

LS - Brown/Gry, Fine Xtln, dense, with poor visible porosity, few fossils in place, No Shows/No Odor

SH - Gray, blocky, w/ laminated

Lansing 3,582' (-1647')

LS - Various Grays, Micro Xtln, Dense, with few fossils, poor porosity, few pieces with micaceaous minerals. No Shows/No Odor.

LS - Lght Gray, Micro Xtln, mosty dense, with a few pieces with edge fracture, with very faint odor, and film in cup. 1 Piece with edge stain

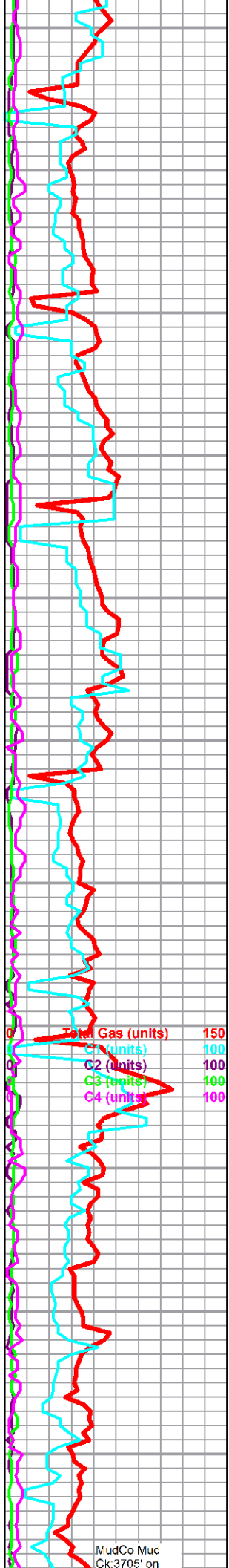
3617 (30") LS - Gray As Above, few pieces with edge stain, and pinpoint interxtln staining better odor in cup. No Free Oil in Tray, No Oil when broke apart.

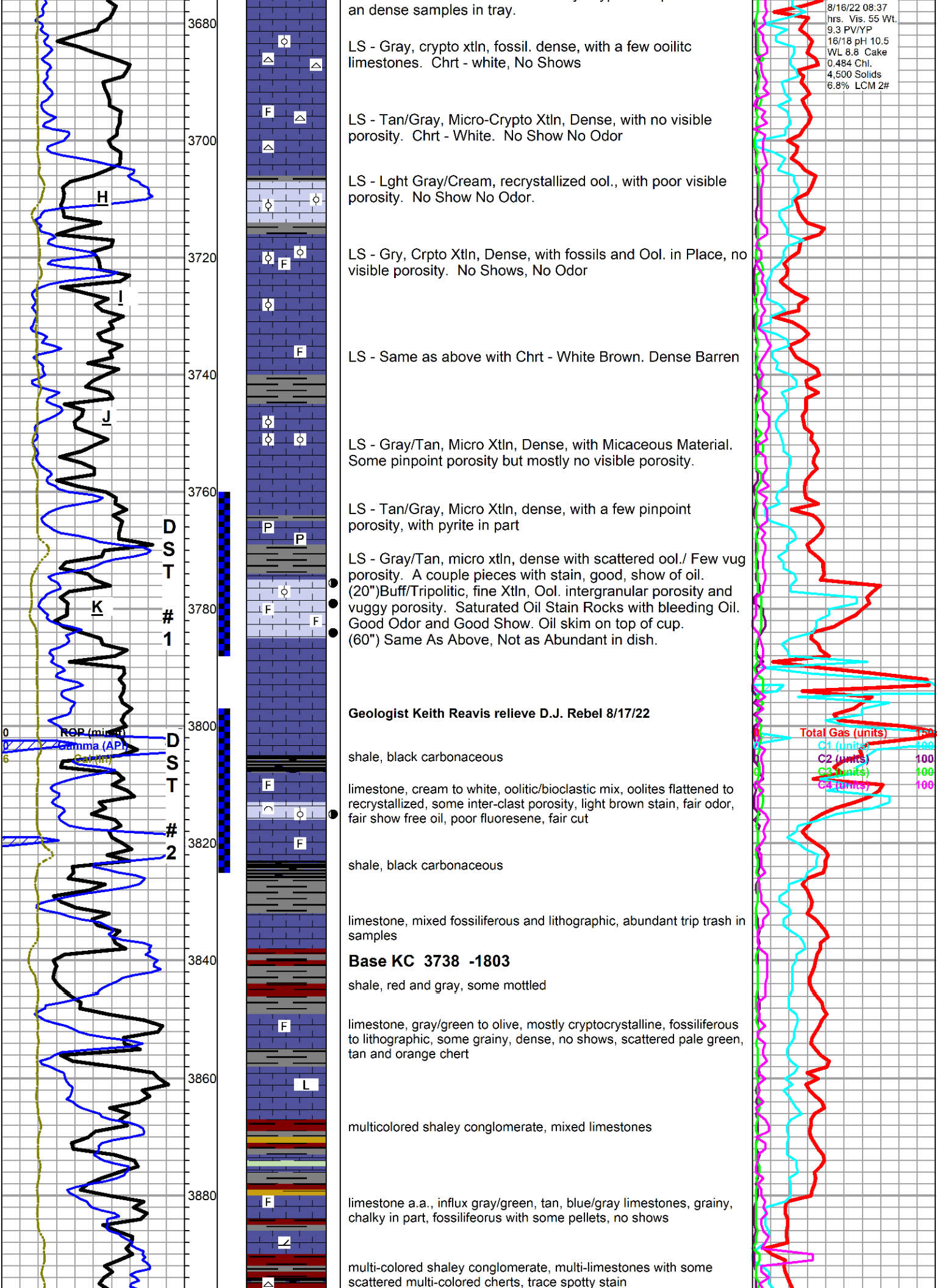
LS - Drk Gray/Tan, Micro-Crypto Xtln, mostly dense with a few pieces of pinpoint porosity, few fossils. Chrt - White to off white, Brwn. No Show No Odor.

LS - AA, with more Gry crypto xtln pieces, and fossils throughout. No Show No Odor.

LS - Cream, oolitic to oomoldic, pinpoint and ool. porosity in pieces, White Chalk, No Show No Oil

LS - Same As Above with more Gry Crypto Xtln pieces and





an dense samples in tray.

LS - Gray, crypto xtln, fossil. dense, with a few ooilitc limestones. Chrt - white, No Shows

LS - Tan/Gray, Micro-Crypto Xtln, Dense, with no visible porosity. Chrt - White. No Show No Odor

LS - Lght Gray/Cream, recrystallized ool., with poor visible porosity. No Show No Odor.

LS - Gry, Crpto Xtln, Dense, with fossils and Ool. in Place, no visible porosity. No Shows, No Odor

LS - Same as above with Chrt - White Brown. Dense Barren

LS - Gray/Tan, Micro Xtln, Dense, with Micaceous Material. Some pinpoint porosity but mostly no visible porosity.

LS - Tan/Gray, Micro Xtln, dense, with a few pinpoint porosity, with pyrite in part

LS - Gray/Tan, micro xtln, dense with scattered ool./ Few vug porosity. A couple pieces with stain, good, show of oil. (20")Buff/Tripolitic, fine Xtln, Ool. intergranular porosity and vuggy porosity. Saturated Oil Stain Rocks with bleeding Oil. Good Odor and Good Show. Oil skim on top of cup. (60") Same As Above, Not as Abundant in dish.

Geologist Keith Reavis relieve D.J. Rebel 8/17/22

shale, black carbonaceous

limestone, cream to white, oolitic/bioclastic mix, oolites flattened to recrystallized, some inter-clast porosity, light brown stain, fair odor, fair show free oil, poor fluoresene, fair cut

shale, black carbonaceous

limestone, mixed fossiliferous and lithographic, abundant trip trash in samples

Base KC 3738 -1803

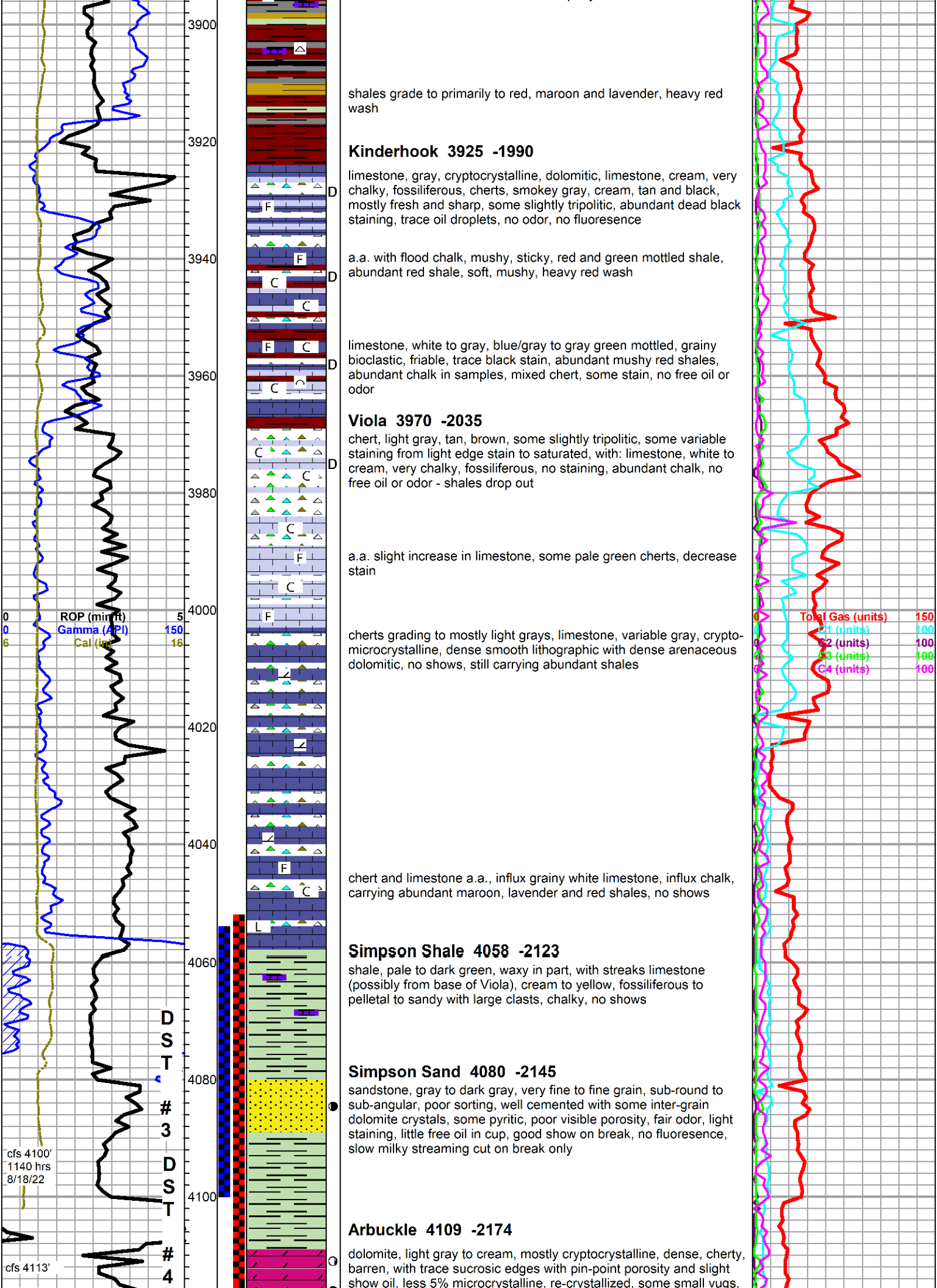
shale, red and gray, some mottled

limestone, gray/green to olive, mostly cryptocrystalline, fossiliferous to lithographic, some grainy, dense, no shows, scattered pale green, tan and orange chert

multicolored shaley conglomerate, mixed limestones

limestone a.a., influx gray/green, tan, blue/gray limestones, grainy, chalky in part, fossilifeorus with some pellets, no shows

multi-colored shaley conglomerate, multi-limestones with some scattered multi-colored cherts, trace spotty stain



shales grade to primarily to red, maroon and lavender, heavy red wash

Kinderhook 3925 -1990

limestone, gray, cryptocrystalline, dolomitic, limestone, cream, very chalky, fossiliferous, cherts, smokey gray, cream, tan and black, mostly fresh and sharp, some slightly tripolitic, abundant dead black staining, trace oil droplets, no odor, no fluoresence

a.a. with flood chalk, mushy, sticky, red and green mottled shale, abundant red shale, soft, mushy, heavy red wash

limestone, white to gray, blue/gray to gray green mottled, grainy bioclastic, friable, trace black stain, abundant mushy red shales, abundant chalk in samples, mixed chert, some stain, no free oil or odor

Viola 3970 -2035

chert, light gray, tan, brown, some slightly tripolitic, some variable staining from light edge stain to saturated, with: limestone, white to cream, very chalky, fossiliferous, no staining, abundant chalk, no free oil or odor - shales drop out

a.a. slight increase in limestone, some pale green cherts, decrease stain

cherts grading to mostly light grays, limestone, variable gray, crypto-microcrystalline, dense smooth lithographic with dense arenaceous dolomitic, no shows, still carrying abundant shales

chert and limestone a.a., influx grainy white limestone, influx chalk, carrying abundant maroon, lavender and red shales, no shows

Simpson Shale 4058 -2123

shale, pale to dark green, waxy in part, with streaks limestone (possibly from base of Viola), cream to yellow, fossiliferous to pelletal to sandy with large clasts, chalky, no shows

Simpson Sand 4080 -2145

sandstone, gray to dark gray, very fine to fine grain, sub-round to sub-angular, poor sorting, well cemented with some inter-grain dolomite crystals, some pyritic, poor visible porosity, fair odor, light staining, little free oil in cup, good show on break, no fluoresence, slow milky streaming cut on break only

Arbuckle 4109 -2174

dolomite, light gray to cream, mostly cryptocrystalline, dense, cherty, barren, with trace sucrosic edges with pin-point porosity and slight show oil, less 5% microcrystalline, re-crystallized, some small vugs,

cfs 4117'

4120

4140

no stain, fair show on break, faint odor, good green fluoresence, poor cut, white oolitic cherts

4117 cfs sampes, dolomite, cryptocrystalline a.a. w/influx light gray to cream, microcrystalline rhombic, sub-rhombic, fine oolitic/oomoldic, small solution vugs, edge etching with stain, some secondary large dolomite crystals, fair odor, fair show on break, good fluoresence, good cut on break
Note: good even light golden brown stain in dry samples