

OPERATOR

Company: Bickle Energies, LLC
 Address: PO Box 816
 Hays, KS 67601

Contact Geologist: Keith Reavis
 Contact Phone Nbr: 620-617-4091
 Well Name: Fisher #34-2
 Location: 2310 FNL 330' FEL, Sec. 34 T5S-R37W
 API: 15-023-21494
 Pool:
 State: Kansas

Field: Wet Beaver
 Country: USA



"THE NEXT GENERATION OF ENERGY"

Scale 1:240 Imperial

Well Name: Fisher #34-2
 Surface Location: 2310 FNL 330' FEL, Sec. 34 T5S-R37W
 Bottom Location:
 API: 15-023-21494
 License Number: 34917
 Spud Date: 10/1/2018 Time: 5:30 PM
 Region: Cheyenne County Time: 7:30 AM
 Drilling Completed: 10/11/2018
 Surface Coordinates: 2310' FSL & 330' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 0.00ft
 K.B. Elevation: 3324.00ft
 Logged Interval: 3700.00ft To: 4975.00ft
 Total Depth: 4975.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -101.4520741
 Latitude: 39.5766649
 N/S Co-ord: 2310' FSL
 E/W Co-ord: 330' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis Jeremy Schwartz

CONTRACTOR

Contractor: WW
 Rig #: 8
 Rig Type: mud rotary
 Spud Date: 10/1/2018
 TD Date: 10/11/2018
 Rig Release:

Time: 5:30 PM
 Time: 7:30 AM
 Time:

ELEVATIONS

NOTES

The Bickle energies, LLC Fisher #34-2 was drilled to a total depth of 4975', bottoming in the Mississippian. A bloodhound gas detector was employed in the drilling of said well. ROP and gas data were imported into this log along with gamma ray and caliper curves from the electrical log suite.

Electrical log measurements were consistently 5 to 6 ft high to driller measurements. Drill time was not slid to provide and exact match to the electrical logs but instead left as recorded in the field.

3 DST's were conducted throughout the Lansing and Pawnee zones.

Due to negative DST results, lack of sample shows, gas kicks, and log analysis it was determined by the operator to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library located in Wichita, KS.

Respectfully Submitted,
 Keith Reavis & Jeremy Schwartz
 Geologists


daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/04/2018		Geologist Keith Reavis on location @ 2200 hrs, 3640 ft, drilling ahead
10/05/2018	3822	drilling ahead, drilled Topeka, stop and run wiper trip @ 4100'
10/06/2018	4128	finish wiper trip, tight, resume drilling, Oread, Heebner, Lansing, show and kick in H warrants test, start short trip, elevator bail broke
10/07/2018	4373	wait on repairs, finsish short trip, ctch TOH w/bit and in w/tools, conduct and complete DST #1, out w/tools in w/ bit, resume drilling
10/08/2018	4430	show and kick in J zone warrants test, TOH w/bit, in w/tools, conduct DST #2, successful test, TIH w/bit, resume drilling Geologist Jeremy Schwartz on location ~2000hrs, ~4460'
10/09/2018	4548	Geologist Jeremy Schwartz relieved Keath Reavis drilling ahead through BKC, Marmaton, CFS @ 4588', resume drilling, CFS @ 4616' show and gas kick in Pawnee warrants test, conduct DST #3
10/10/2018	4616	Successful test, resume drilling ahead through Ft. Scott, Cherokee,
10/11/2018	4975	TD of 4975' reached @ 0730hrs, CTCH 1hr, trip out of hole to conduct logging operations, hit a bridge while running in the hole with logging tools, try to work bridge loose with no luck, decision made to condition hole, run back in and ream the hole, Geologist Jeremy Schwartz off location @ ~1400hrs, staying in touch with loggers on progress, hole conditioned, successful run back in with logging tools,
10/12/2018		Logging operations complete @ 0200hrs

well comparison sheet

DRILLING WELL					COMPARISON WELL			
Fisher 34-2					Abercrombie - Fisher C-2			
2310' FSL & 330' FEL					NE SE NE			
Sec 34-T5S-R37W					Sec 34-T5S-R37W			
3324 KB					3295 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite	3038	286	3039	285	2991	304	-18	-19
Base Anhydrite		3324	3072	252	3026	269		-17
Topeka	4035	-711	4030	-706	3990	-695	-16	-11

Drill Stem Test #2

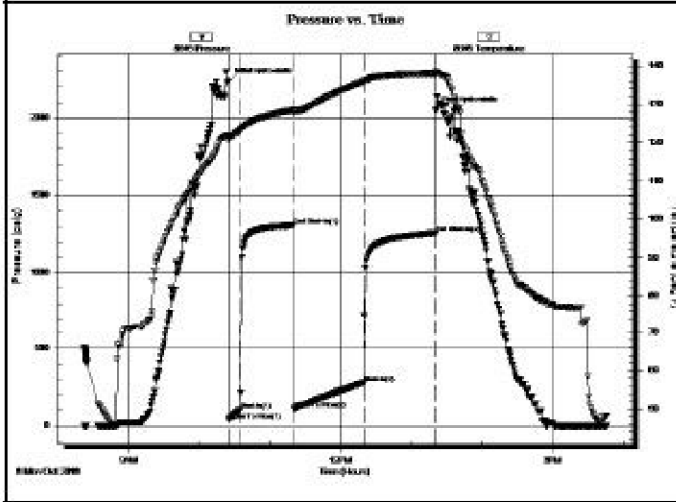
 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT	
	Bickle Energies LLC P. O. Box 816 Hays KS 67601 ATTN: Keith Reavis	34 5s 37w Cheyenne KS Fisher 34-2 Job Ticket: 64148 DST#:2 Test Start: 2018.10.08 @ 08:22:00

GENERAL INFORMATION:

Formation: LKC "J"	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Jim Svaty
Time Tool Opened: 10:25:01	Unit No: 78
Time Test Ended: 15:46:00	Reference Elevations: 3328.00 ft (KB)
Interval: 4372.00 ft (KB) To 4430.00 ft (KB) (TVD)	3324.00 ft (CF)
Total Depth: 4430.00 ft (KB) (TVD)	KB to GR/CF: 4.00 ft
Hole Diameter: 7.88 inches hole Condition: Fair	

Serial #: 8645 Outside	Capacity: 8000.00 psig
Press@RunDepth: 277.22 psig @ 4373.00 ft (KB)	Last Calib.: 2018.10.08
Start Date: 2018.10.08 End Date: 2018.10.08	Time On Btm: 2018.10.08 @ 10:24:46
Start Time: 08:22:01 End Time: 15:46:01	Time Off Btm: 2018.10.08 @ 13:21:01

TEST COMMENT: 10-FP- Surface Blow Built to 8in. IPRP-- 11.8in.
 45-ISIP- No Blow
 60-FPR- BOB in 17min. IPRO-- 37in.
 60-FSIP- No Blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.98	122.04	Initial Hydro-static
1	38.94	120.53	Open To Flow (1)
10	102.15	123.12	Shut-In(1)
55	1304.20	128.42	End Shut-In(1)
56	111.55	127.56	Open To Flow(2)
115	277.22	135.93	Shut-In(2)
176	1257.01	138.05	End Shut-In(2)
177	2049.91	138.44	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bb)
120.00	Water 100% Show of Oil	0.59
125.00	OMCW 5%o 15% m 80%w	1.75
125.00	OMCW 10%o 40% m 50%w	1.75
125.00	OWCM 10%o 30%w 60% m	1.75
62.00	WOCM 5%w 30%o 65% m	0.87

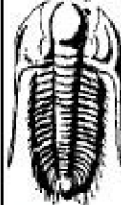
* Recovery from multiple tests

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/D)

Drill Stem Test #3

	DRILL STEM TEST REPORT
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DRILL STEM TEST REPORT



**TRILOBITE
TESTING, INC.**

Bicke Energies LLC

P. O. Box 816
Hays KS 67601

ATTN: Kath Reavis

34 5s 37w Cheyenne KS

Fisher 34-2

Job Ticket: 64149

DST#: 3

Test Start: 2018.10.09 @ 19:00:00

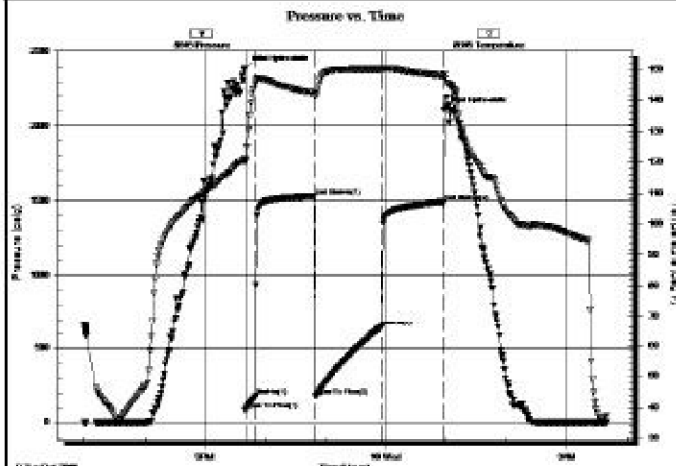
GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:40:16 Tester: Jim Svaty
 Time Test Ended: 03:40:00 Unit No: 76
 Interval: **4590.00 ft (KB) To 4616.00 ft (KB) (TVD)** Reference Elevations: 3328.00 ft (KB)
 Total Depth: 4616.00 ft (KB) (TVD) 3324.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 4.00 ft

Serial #: 8645 Outside
 Press@RunDepth: 643.73 psig @ 4591.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.10.09 End Date: 2018.10.10 Last Calib.: 2018.10.10
 Start Time: 19:00:01 End Time: 03:40:01 Time On Btm: 2018.10.09 @ 21:40:01
 Time Off Btm: 2018.10.10 @ 00:58:16

TEST COMMENT: 10-FP: BOB in 4 1/2min. IPRO - 24in.
 60-FP: Weak Surface Blow in 2min.
 60-FFP: BOB in 5min. IPRO - 114in.
 60-FSIP: No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2385.92	121.15	Initial Hydro-static
1	89.61	119.93	Open To Fbw (1)
11	178.25	145.91	Shut-In (1)
70	1531.08	142.45	End Shut-In (1)
70	162.83	141.32	Open To Fbw (2)
136	643.73	150.06	Shut-In (2)
198	1490.58	147.92	End Shut-In (2)
199	2107.44	148.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1058.00	MCW 2%w 98%w	13.75
344.00	WCM 25%w 75%w Show of Oil	4.83

* Recovery from multiple tests

Gas Rates

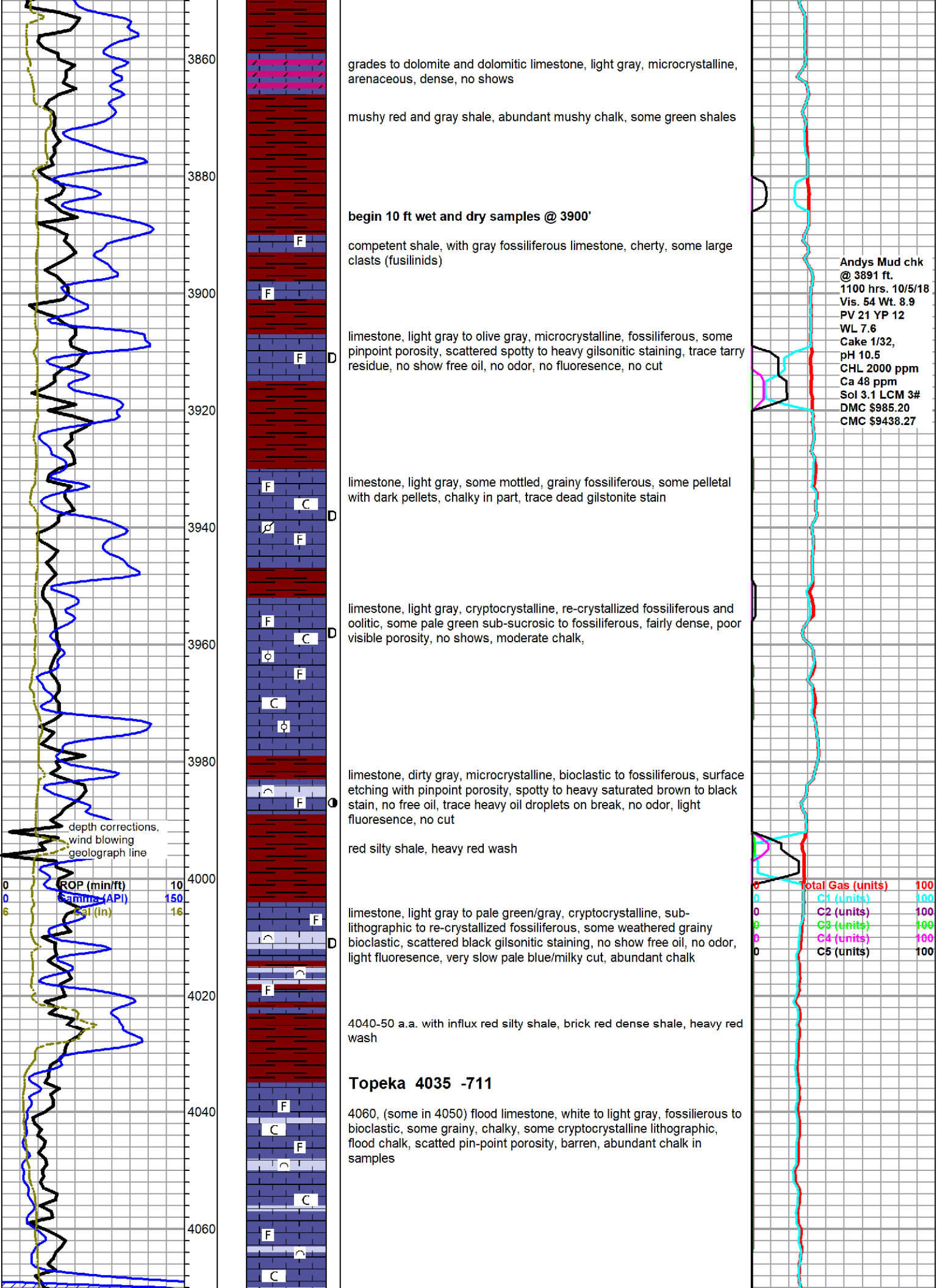
Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/D)

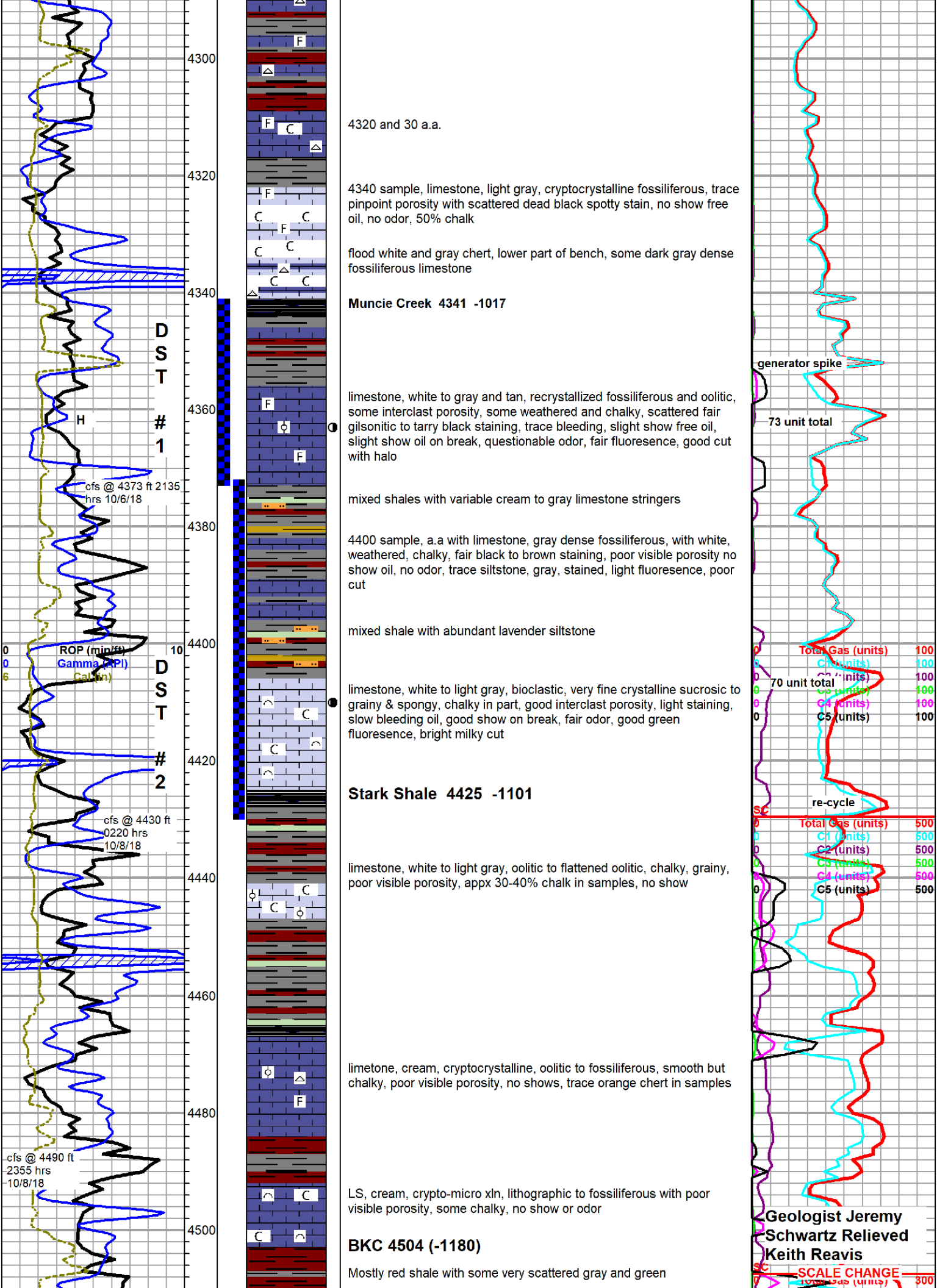
ROCK TYPES

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

ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
∠ Dolomitic	∩ Bioclastic or Fragmental	••• Sandstone	C Chalky
∠ Varicolored chert	F Fossils < 20%	••• Siltstone	L Lithogr
∠ Chert White	∅ Oolite	— Shale	
	∅ Pellets	— green shale	
		— red shale	





4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
4500

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1

2

4320 and 30 a.a.

4340 sample, limestone, light gray, cryptocrystalline fossiliferous, trace pinpoint porosity with scattered dead black spotty stain, no show free oil, no odor, 50% chalk

flood white and gray chert, lower part of bench, some dark gray dense fossiliferous limestone

Muncie Creek 4341 -1017

limestone, white to gray and tan, recrystallized fossiliferous and oolitic, some interclast porosity, some weathered and chalky, scattered fair gilsonitic to tarry black staining, trace bleeding, slight show free oil, slight show oil on break, questionable odor, fair fluorescence, good cut with halo

mixed shales with variable cream to gray limestone stringers

4400 sample, a.a with limestone, gray dense fossiliferous, with white, weathered, chalky, fair black to brown staining, poor visible porosity no show oil, no odor, trace siltstone, gray, stained, light fluorescence, poor cut

mixed shale with abundant lavender siltstone

limestone, white to light gray, bioclastic, very fine crystalline sucrositic to grainy & spongy, chalky in part, good interclast porosity, light staining, slow bleeding oil, good show on break, fair odor, good green fluorescence, bright milky cut

Stark Shale 4425 -1101

limestone, white to light gray, oolitic to flattened oolitic, chalky, grainy, poor visible porosity, appx 30-40% chalk in samples, no show

limetone, cream, cryptocrystalline, oolitic to fossiliferous, smooth but chalky, poor visible porosity, no shows, trace orange chert in samples

LS, cream, crypto-micro xln, lithographic to fossiliferous with poor visible porosity, some chalky, no show or odor

BKC 4504 (-1180)

Mostly red shale with some very scattered gray and green

generator spike

73 unit total

70 unit total

re-cycle

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100
C5 (units)	100
Total Gas (units)	500
C1 (units)	500
C2 (units)	500
C3 (units)	500
C4 (units)	500
C5 (units)	500

Geologist Jeremy Schwartz Relieved Keith Reavis

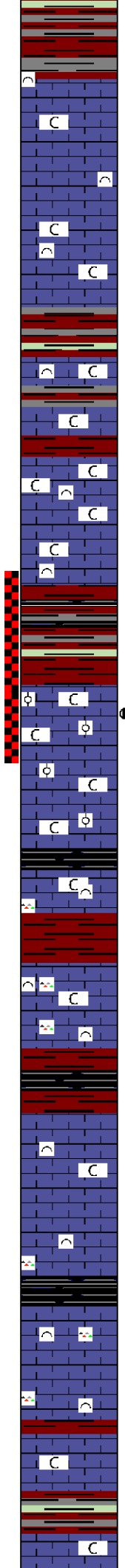
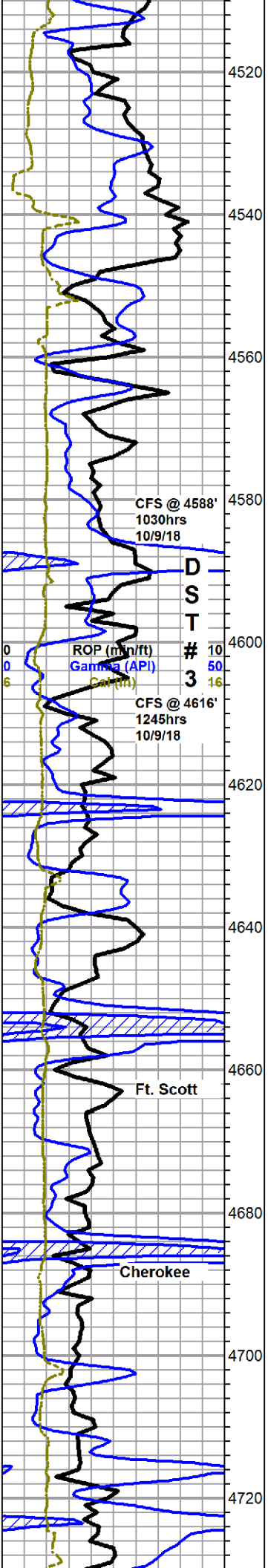
SCALE CHANGE (units)

cfs @ 4373 ft 2135 hrs 10/6/18

ROP (min/ft)
Gamma (API)
Cal (in)

cfs @ 4430 ft 0220 hrs 10/8/18

cfs @ 4490 ft 2355 hrs 10/8/18



Marmaton 4521 (-1197)

LS, cream to gray, micro-xln, fossiliferous to lithographic and dense with poor visible porosity, some slightly chalky, no show or odor

LS as above, no show or odor

LS, mostly cream, micro-xln, fossiliferous and dense with poor visible porosity, with some scattered red to gray and trace green shale, slightly chalky, no show or odor

LS with some shale as above, no show or odor

LS, cream with some scattered light gray, mostly fossiliferous and dense with poor visible porosity, chalky, no show or odor

4588' 30" LS as above, with slight influx brown, crypto-xln, lithographic and dense with poor visible porosity, chalky as above, no show or odor

4588' 60" LS, cream to gray, micro-xln, fossiliferous to lithographic and dense with poor visible porosity, fairly chalky, no show or odor

Red to gray and dark gray/black with trace green shale

Pawnee 4606 (-1282)

LS, cream, micro-xln, fossiliferous with some scattered oolitic, mostly poor visible porosity, some scattered chips with several small vugs and very light edge staining as well as in porosity, upon break chips with stain show scattered fair inter-xln porosity and fair show free oil with slight show gas bubbles, fairly chalky sample, chips with stain have mostly even dull yellow fluor., fair odor in cup

4616' 30" & 60" Mostly same as above with slight influx chips with show, some fair inter-oolite porosity, some chips with scattered to very scattered very light stain and fair show free oil and increased odor upon break, fairly chalky samples, fair odor in wet cup

~4620' LS, mostly cream with some scattered gray, micro-xln, fossiliferous with poor visible porosity, some chalky, trace brown chert, no show or odor

~4630' LS, cream to brown, micro-xln, fossiliferous and dense with poor visible porosity, no show or odor

~4640' LS as above, with some scattered red, black and trace green shale, chalky, no show or odor

~4650' LS, cream, micro-xln, fossiliferous to lithographic with poor visible porosity, some chalky, with slight influx gray to brown chert, no show or odor

~4660' Mostly same as above, with influx dark brown to black shale, no show or odor

LS, cream with some very scattered brown, micro-xln, fossiliferous to lithographic with poor visible porosity, some chalky, scattered shale as above, no show or odor

As above, no show or odor

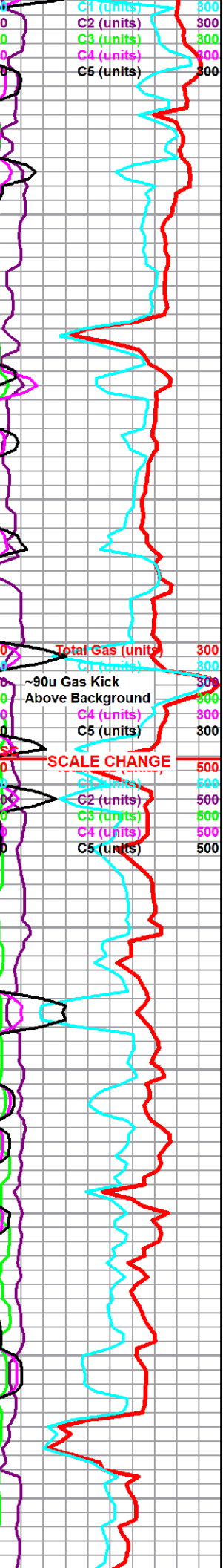
LS as above, with influx dark brown chert with some scattered gray to black and trace green shale, no show or odor

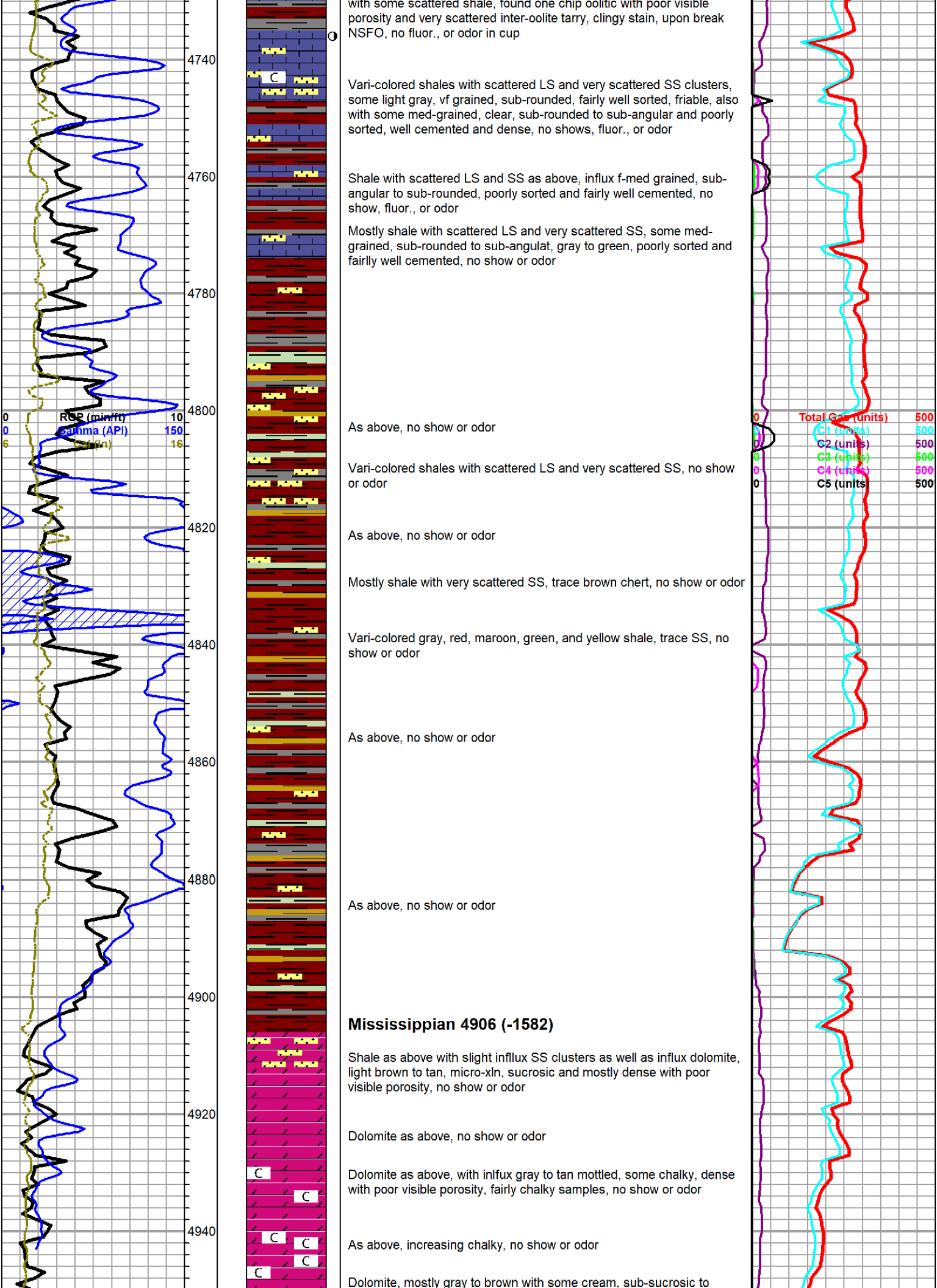
LS, cream to brown, micro-xln, fossiliferous and dense with poor visible porosity, with red, black, and green shale and scattered chert, no show or odor

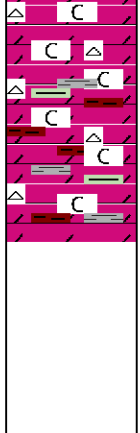
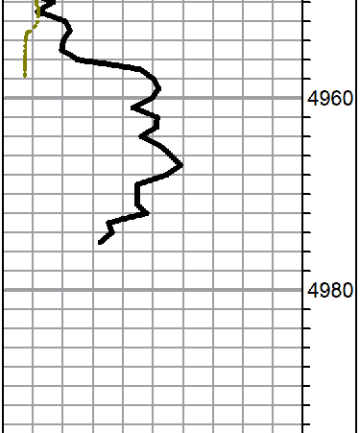
LS, cream, micro-xln, mostly lithographic soft and chalky, some fossiliferous and dense with poor visible porosity, no show or odor

LS as above, with influx vari-colored shales

LS, cream, micro-xln, lithographic soft and chalky to dense fossiliferous,







sucrosic, some mottled, very scattered gray to white chert, very chalky, no show or odor

Dolomite and very scattered chert as above, with influx red and gray shale, chalky, no show or odor

4975' 30 & 60" Dolomite, cream to gray, some mottled, mostly sub-sucrosic and dense with poor visible porosity, with abundant shale and scattered chert

Rotary TD 4975' @ 0730hrs 10/11/18
Eli Wireline Services Logging TD @ 4977'
Complete Logging Operations @ 0200hrs 10/12/18
Geologist Jeremy Schwartz off location @ ~1400hrs 10/11/1

