KOLAR Document ID: 1374899

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 # 30606
Name: Murfin Drilling Co., Inc.
Address 1: 250 N WATER STE 300
Address 2:
City: WICHITA State: KS Zip: 67202 + 1216
Contact Person: Tom Melland
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Keith Reavis
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 #:

10/17/2017	10/25/2017	10/26/2017
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-187-21337-00-00
Spot Description:
__ - E2 - NW - NE Sec. 30 Twp. 29 S. R. 40 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
1650 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: Stanton
Lease Name: VENWIN Well #: 1-30
Field Name:
Producing Formation: na
Elevation: Ground: 3302 Kelly Bushing: 3313
Total Vertical Depth: 5750 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1775 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: 2800 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: 12/14/2017
☑ **Confidential Release Date:** 12/14/2019
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 12/14/2017

Operator Name: Murfin Drilling Co., Inc. Lease Name: VENWIN Well #: 1-30

Sec. 30 Twp. 29 S. R. 40 ☐ East ☑ West County: Stanton

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:
Attached

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

Name	Top	Datum
see attached	see attached	see 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	12.250	8.625	23	1775	Common	750	3% CC, 2% Gel

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	Murfin Drilling Co., Inc.
Well Name	VENWIN 1-30
Doc ID	1374899

All Electric Logs Run

DIL
DUCP
MEL
BHCS

Form	ACO1 - Well Completion
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Well Name	VENWIN 1-30
Doc ID	1374899

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	12.250	8.625	23	1775	Common	750	3% CC, 2% Gel

OPERATOR

Company:	Murfin Drilling Company		
Address:	250 N. Water Suite 300 Wichita, KS 67202		
Contact Geologist:	Shauna Gunzelman		
Contact Phone Nbr:	316-267-3241		
Well Name:	Venwin # 1-30		
Location:	Sec. 30 - T29S - R40W		
API:	15-187-21337-0000		
Pool:		Field:	un-named
State:	Kansas	Country:	USA

Scale 1:240 Imperial

Well Name:	Venwin # 1-30		
Surface Location:	Sec. 30 - T29S - R40W		
Bottom Location:			
API:	15-187-21337-0000		
License Number:	30606		
Spud Date:	10/17/2017	Time:	6:00 PM
Region:	Stanton County		
Drilling Completed:	10/25/2017	Time:	1:45 PM
Surface Coordinates:	660' FNL & 1650' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	3302.00ft		
K.B. Elevation:	3313.00ft		
Logged Interval:	3550.00ft	To:	5750.00ft
Total Depth:	5750.00ft		
Formation:	Mississippian		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	101.731871388
Latitude:	37.502967876
N/S Co-ord:	660' FNL
E/W Co-ord:	1650' 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

CONTRACTOR

Contractor:	Murfin Drilling Company		
Rig #:	21		
Rig Type:	mud rotary		
Spud Date:	10/17/2017	Time:	6:00 PM
TD Date:	10/25/2017	Time:	1:45 PM
Rig Release:		Time:	

Rig Release: Time:

ELEVATIONS

K.B. Elevation: 3313.00ft Ground Elevation: 3302.00ft
K.B. to Ground: 11.00ft

NOTES

There were no shows and no DST's were conducted on this well. After review of electrical logs, it was determined the Venwin #1-30 should be plugged and abandoned as a dry hole.

A Bloodhound gas detection system operated by Bluestem Labs was employed during the drilling of this well. ROP and gas data were imported into this log from the Bloodhound system.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted
Keith Reavis

daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/20/2017		set up Bloodhound gas detection system, operational 1803' @ 1620 hrs
10/21/2017	2584	drilling ahead, displace mud system at 3450', 2300 hrs
10/22/2017	3718	on location to run samples, 0500 hrs, re-calibrate Bloodhound, drilling ahead, Topeka, Heebner, Lansing, Marmaton
10/23/2017	4437	drilling ahead, Marmaton, Ft. Scott, run wiper trip, drill ahead, Cherokee group
10/24/2017	4862	drilling ahead, Cherokee, Atoka, Morrow, Mississippian
10/25/2017	5515	drilling ahead, Mississippian, St. Louis, Spergen, TD 5750' @ 1345 hrs, cfs, short trip, ctch, TOH for logs, conduct logging operations
10/26/2017	5750	complete logging operations, off location 0430 hrs

well comparison sheet

	DRILLING WELL Murfin – Venwin #1-30 660' FNL & 1650' FEL Sec. 30 – T29S – R40W 3313 KB				COMPARISON WELL H & L – Julian Farms #1-29 1980' FSL & 330' FSL Sec. 29 – T29S – R40W 3312 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Heebner	3630	-317	3626	-313	3656	-344	27	31
Toronto	3653	-340	3648	-335	3676	-364	24	29
Lansing	3696	-383	3688	-375	3718	-406	23	31
Muncie Creek	3972	-659	3968	-655	3998	-686	27	31
Stark Shale	4139	-826	4131	-818	4164	-852	26	34
Pleasanton	4278	-965	4278	-965	4300	-988	23	23
Marmaton	4303	-990	4302	-989	4324	-1012	22	23
Ft. Scott	4464	-1151	4466	-1153	4483	-1171	20	18
Atoka	4734	-1421	4732	-1419	4758	-1446	25	27
Atoka Shale	4849	-1536	4850	-1537	4880	-1568	32	31
Morrow	5026	-1713	5022	-1709	5046	-1734	21	25
Mid Morrow LS	5310	-1997	5309	-1996	5319	-2007	10	11
Keyes Sand	np				np			
Morrow Sand	np				np			
Mississippian	5373	-2060	5373	-2060	5392	-2080	20	20
St. Louis	5430	-2117	5434	-2121				

Total Depth	5750	-2437	5750	-2437	5802	-2490	53	53

ROCK TYPES

Dolprim
sdy lmst
Lmst fw<7
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red
Ss
Sltst

ACCESSORIES

MINERAL
- Argillaceous
- Chert, dark
- Glauconite
- Pyrite
- Sandy
- Chert White

FOSSIL
- Bioclastic or Fragmental
- Fossils < 20%
- Oolite
- Pellets
- Oomoldic

STRINGER
- Anhydrite
- Limestone
- Sandstone
- Siltstone
- Shale

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

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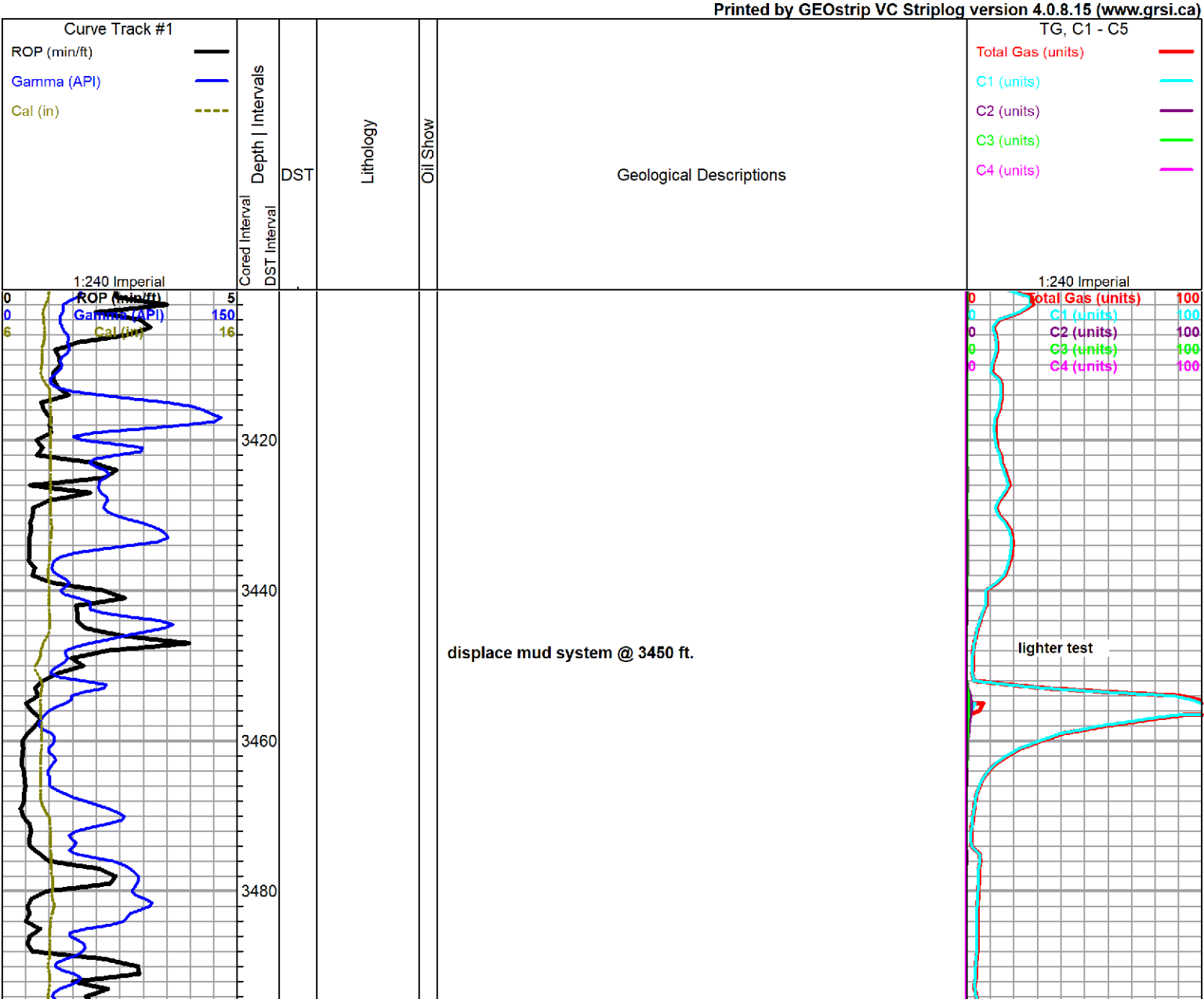
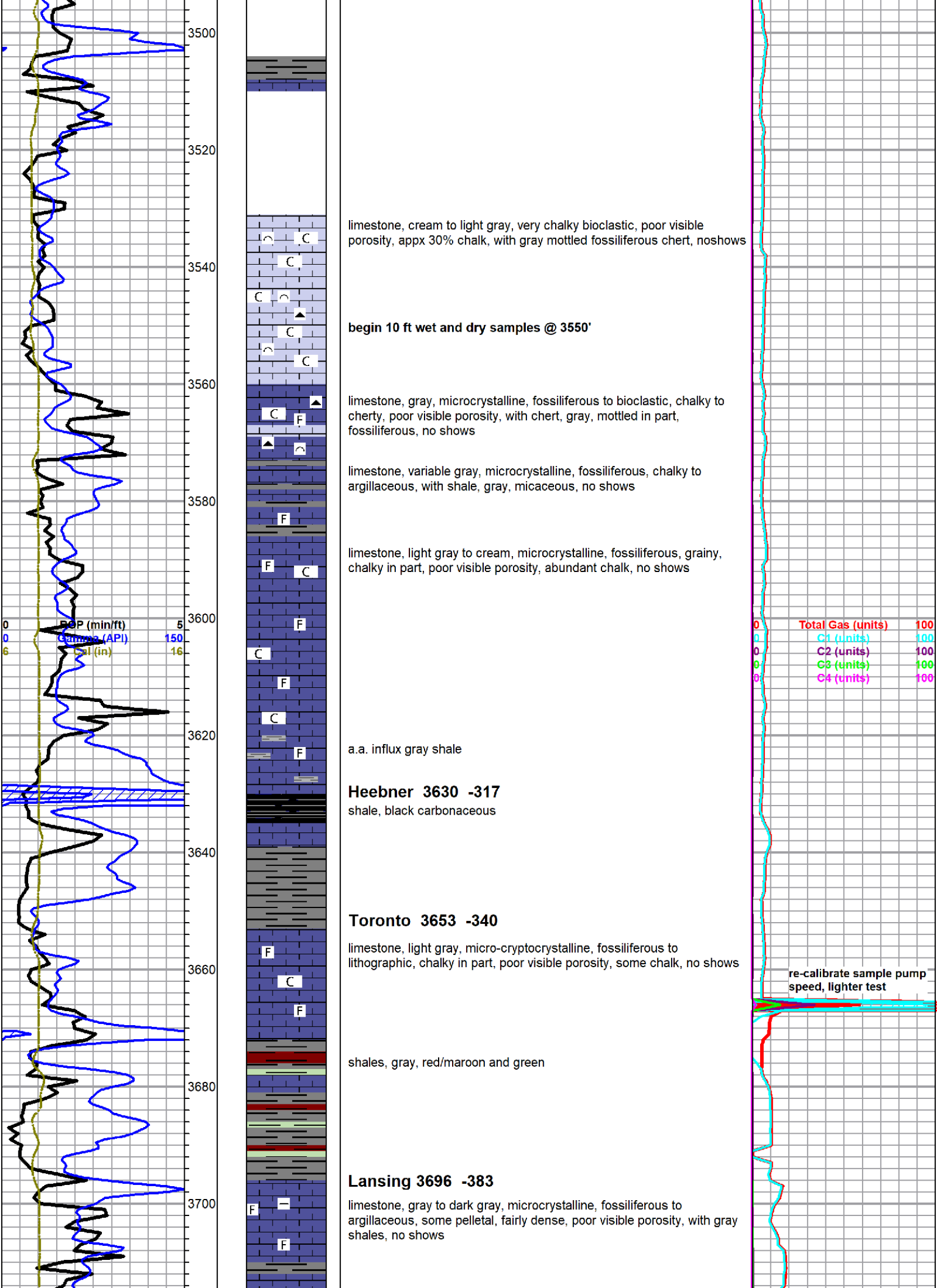




limestone, cream to light gray, very chalky bioclastic, poor visible porosity, appx 30% chalk, with gray mottled fossiliferous chert, noshows

begin 10 ft wet and dry samples @ 3550'

limestone, gray, microcrystalline, fossiliferous to bioclastic, chalky to cherty, poor visible porosity, with chert, gray, mottled in part, fossiliferous, no shows

limestone, variable gray, microcrystalline, fossiliferous, chalky to argillaceous, with shale, gray, micaceous, no shows

limestone, light gray to cream, microcrystalline, fossiliferous, grainy, chalky in part, poor visible porosity, abundant chalk, no shows

a.a. influx gray shale

Heebner 3630 -317

shale, black carbonaceous

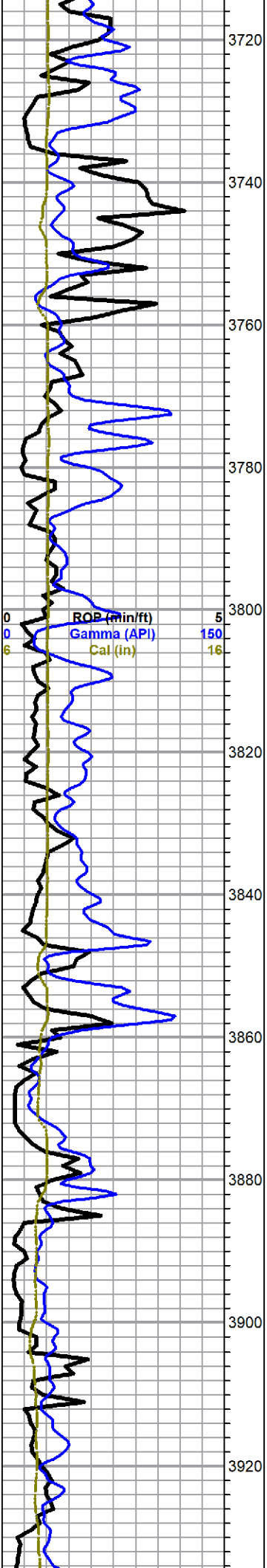
Toronto 3653 -340

limestone, light gray, micro-cryptocrystalline, fossiliferous to lithographic, chalky in part, poor visible porosity, some chalk, no shows

shales, gray, red/maroon and green

Lansing 3696 -383

limestone, gray to dark gray, microcrystalline, fossiliferous to argillaceous, some pelletal, fairly dense, poor visible porosity, with gray shales, no shows



shale, green

Lsg B

limestone, cream to variable gray, microcrystalline, fossiliferous, chalky in part, poor visible porosity, abundant chalk, no shows

limestone a.a., flood chalk

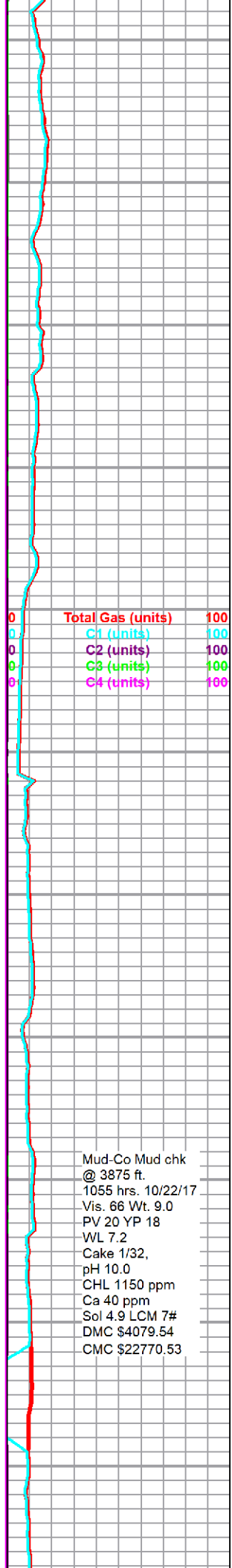
limestone, light gray, microcrystalline, fossiliferous, some bioclastic, poor visible porosity, chalky in part, no shows

limestone, light gray to gray, microcrystalline, fossiliferous, some bioclastic, with limestone, gray, cryptocrystalline, dense compact lithographic, some chalk, no shows

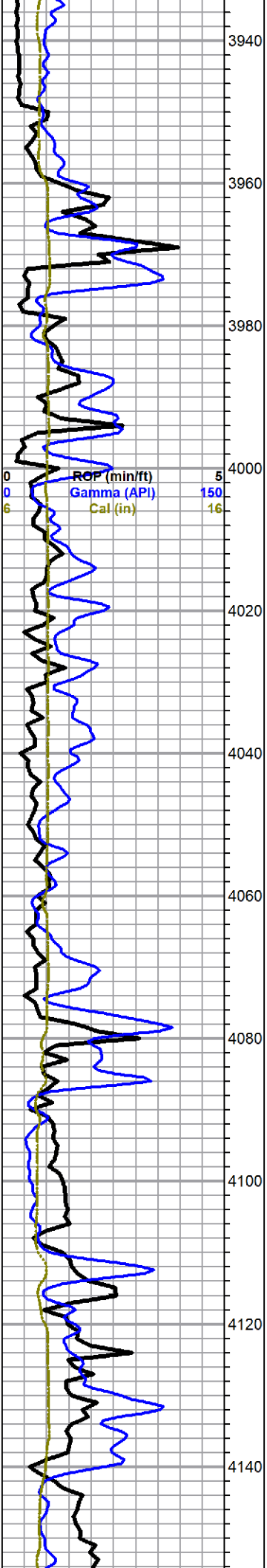
limestone, variable gray and cream, crypto-microcrystalline, fossiliferous and bioclastic to oolitic and sub-oomoldic, some fair vugs, flood chalk in samples, no shows

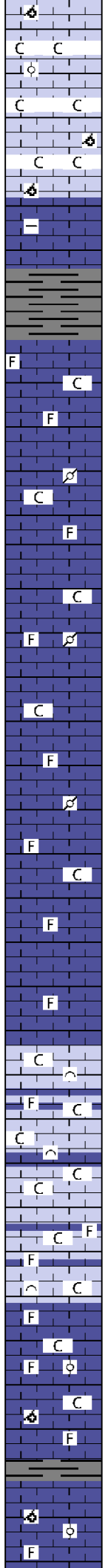
limestone, brown mottled, micro-cryptocrystalline, sub-oomoldic, re-crystallized, some fair porosity, poorly developed, abundant chalk, no shows

limestone, cream to tan, oomoldic and oolitic, good oomold porosity, flood chalk in samples, 50% plus, no shows



Mud-Co Mud chk
@ 3875 ft.
1055 hrs. 10/22/17
Vis. 66 Wt. 9.0
PV 20 YP 18
WL 7.2
Cake 1/32,
pH 10.0
CHL 1150 ppm
Ca 40 ppm
Sol 4.9 LCM 7#
DMC $4079.54
CMC $22770.53





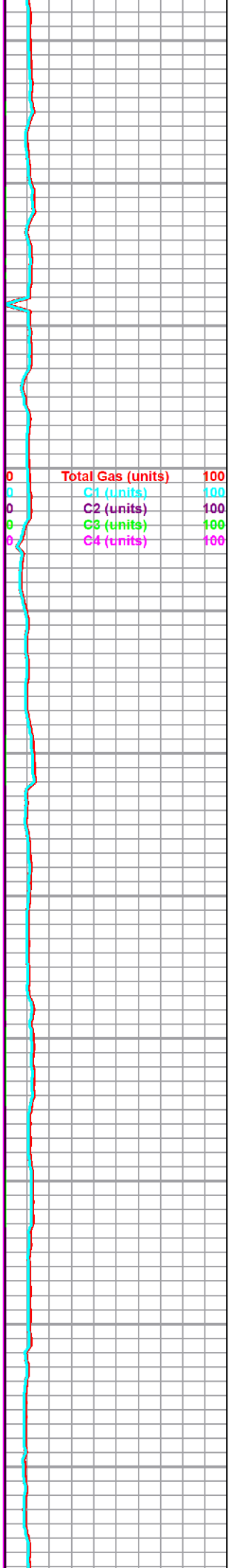
a.a.

limestone, gray, cryptocrystalline, argillaceous to sub-lithographic

Muncie Creek 3972 -659

limestone, mixed non-descript, abundant gray argillaceous limestone, varying chalk, no shows

limestone variable non-descript fossiliferous, with some pelletal, some weathered very chalky, abundant chalk



a.a., decreasing chalk

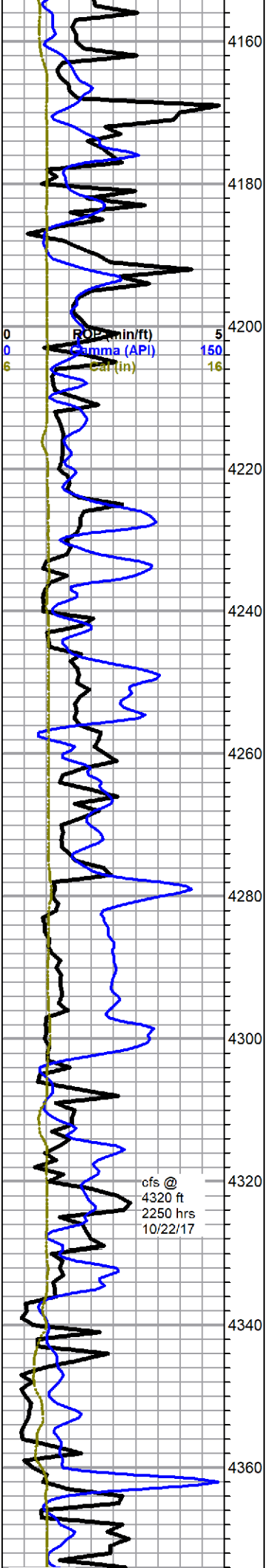
as above

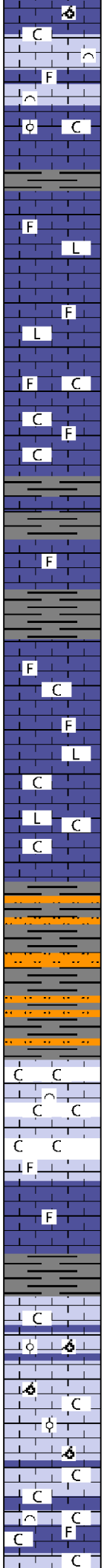
4110-4140 sample, limestone, gray mottled, microcrystalline, fossiliferous to bioclastic, some scattered vugs and interclast porosity, flood chalk, no shows

limestone, mixed gray, fossiliferous, trace tan oolitic and oomoldic, moderate chalk, no shows

Stark 4139 -826

4170 sample, mixed fossiliferous limestone a.a. with marked influx tan oomoldic and oolitic, re-crystallized in part, some good oomold porosity, no shows

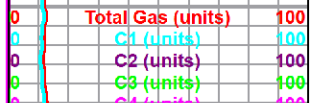




influx chalky bioclastic

Hushpuckney 4177 -864

limestone, mixed non-descript fossiliferous and lithographic, mostly gray, no shows



limestone, mixed gray, fossiliferous, chalky, abundant chalk in samples, no shows

Exline LS 4230 -917

limestone, light gray, chalky, weathered, cherty in part, fossiliferous, no shows

4270 sample, dark gray shale, gritty, limey

limestone, light gray to cream, chalky fossiliferous, some weathered, grades to limestone, white to cream and light gray, crypotcrystalline, mostly lithographic, chalky in part, no shows

a.a. with influx chalk

Pleasanton 4278 -965

siltstone to silty shale, light gray, soft

Marmaton 4303 -990

limestone, light gray to white, fossiliferous to bioclastic, chalky, poor visible porosity, appx 50% of sample is chalk, no shows

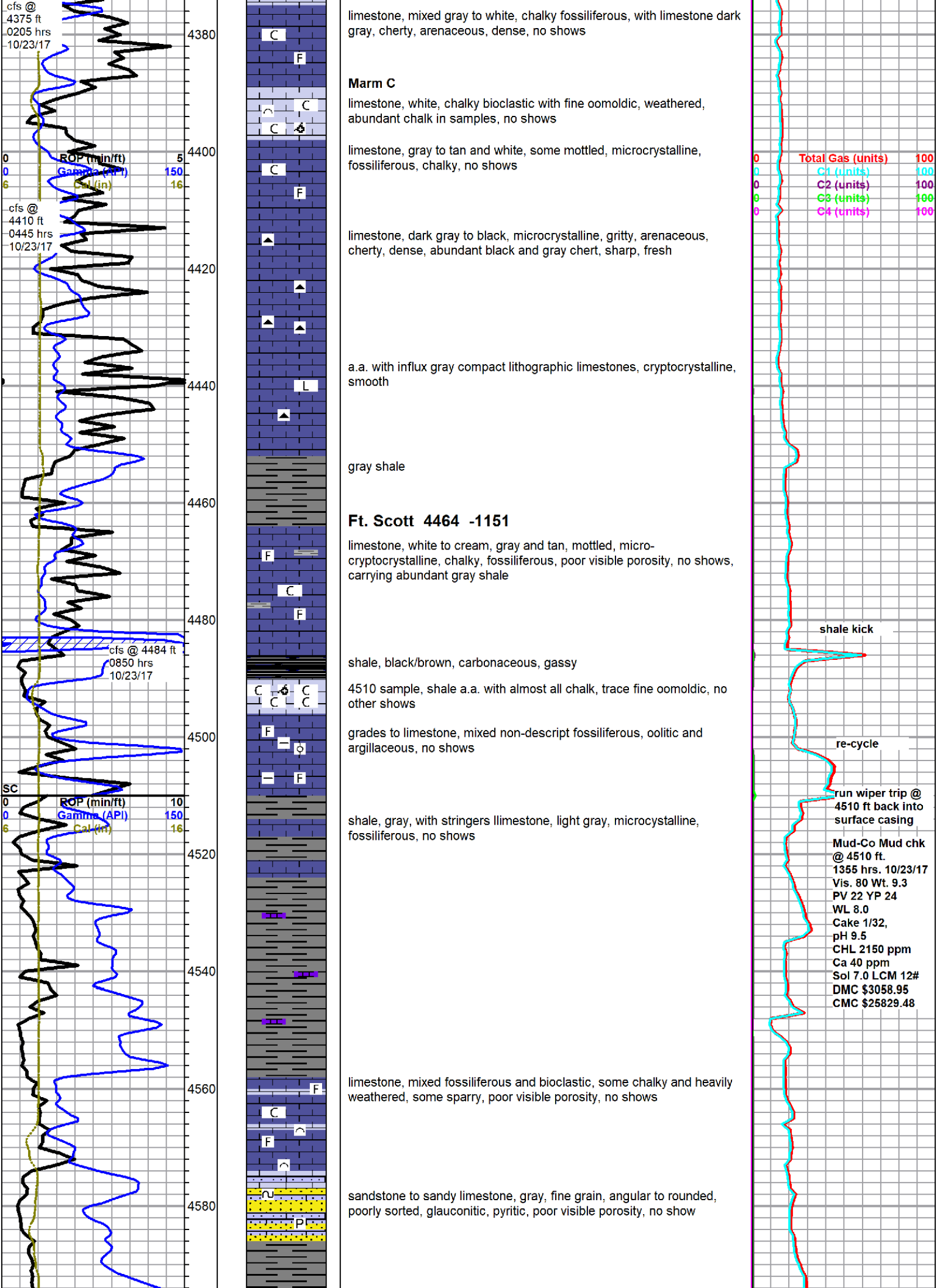
limestone, mixed white to gray and cream, chalky fossiliferous, no shows

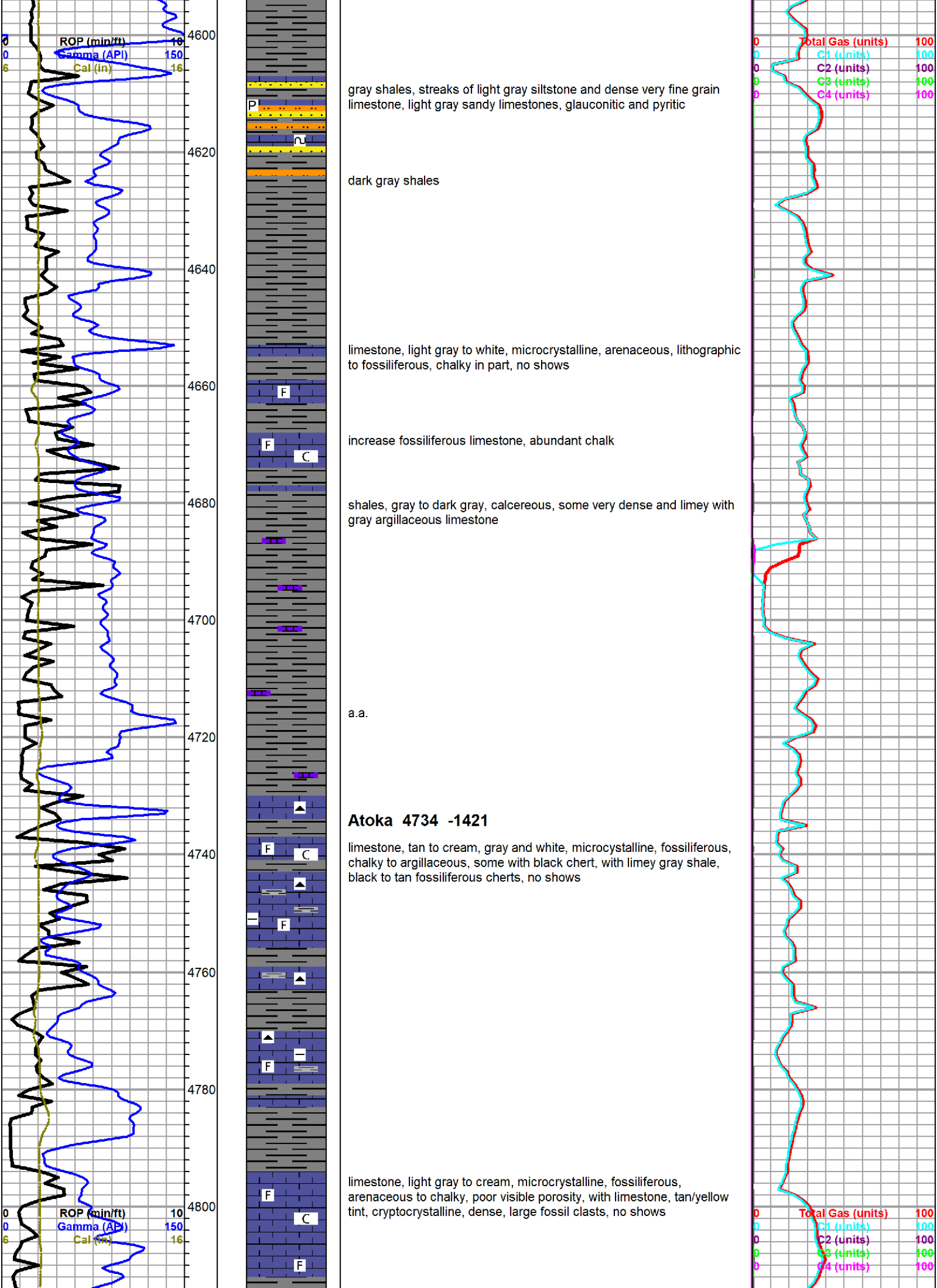
deviation survey
@ 4327' 0.6 deg

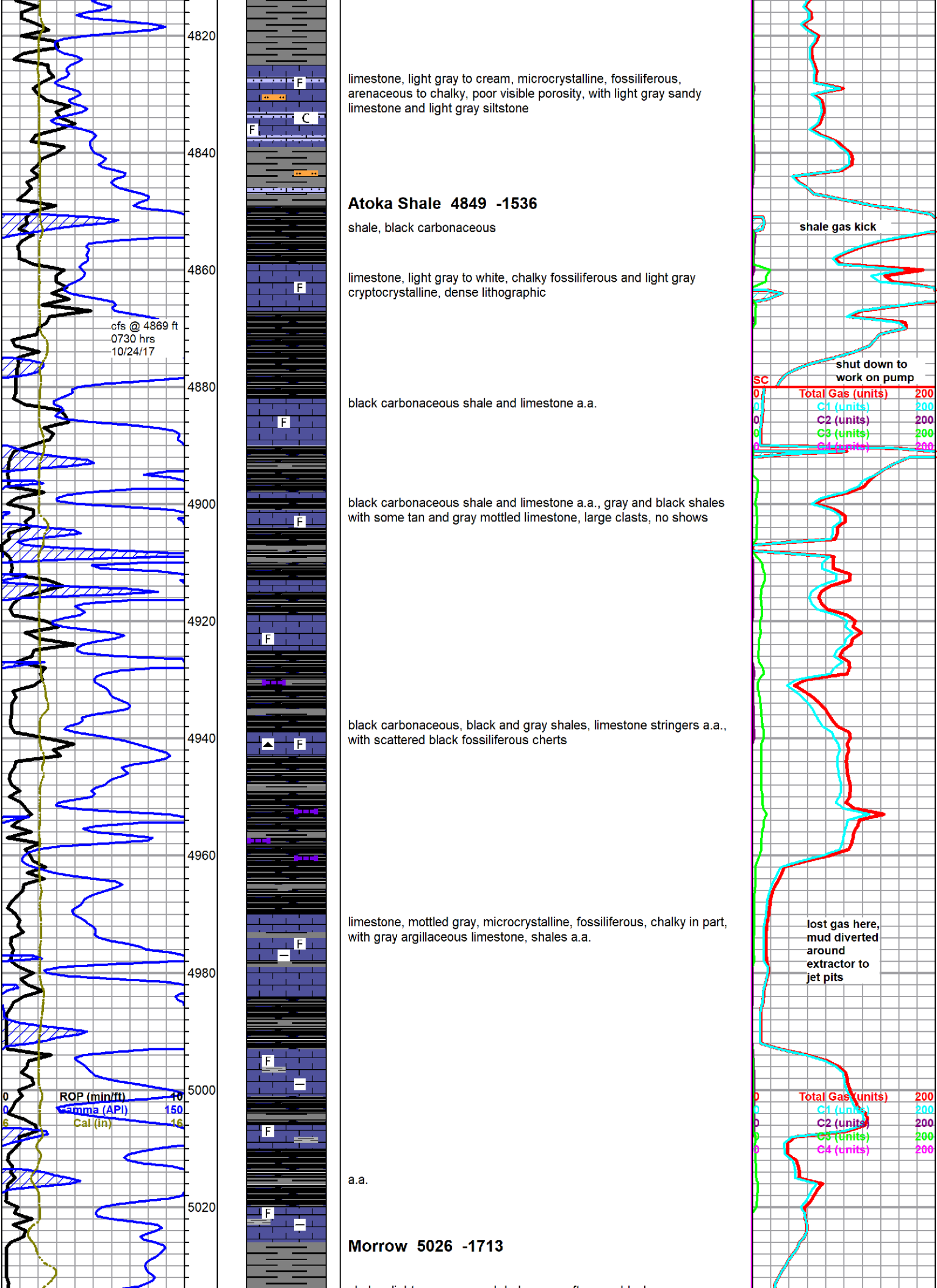
Marm B

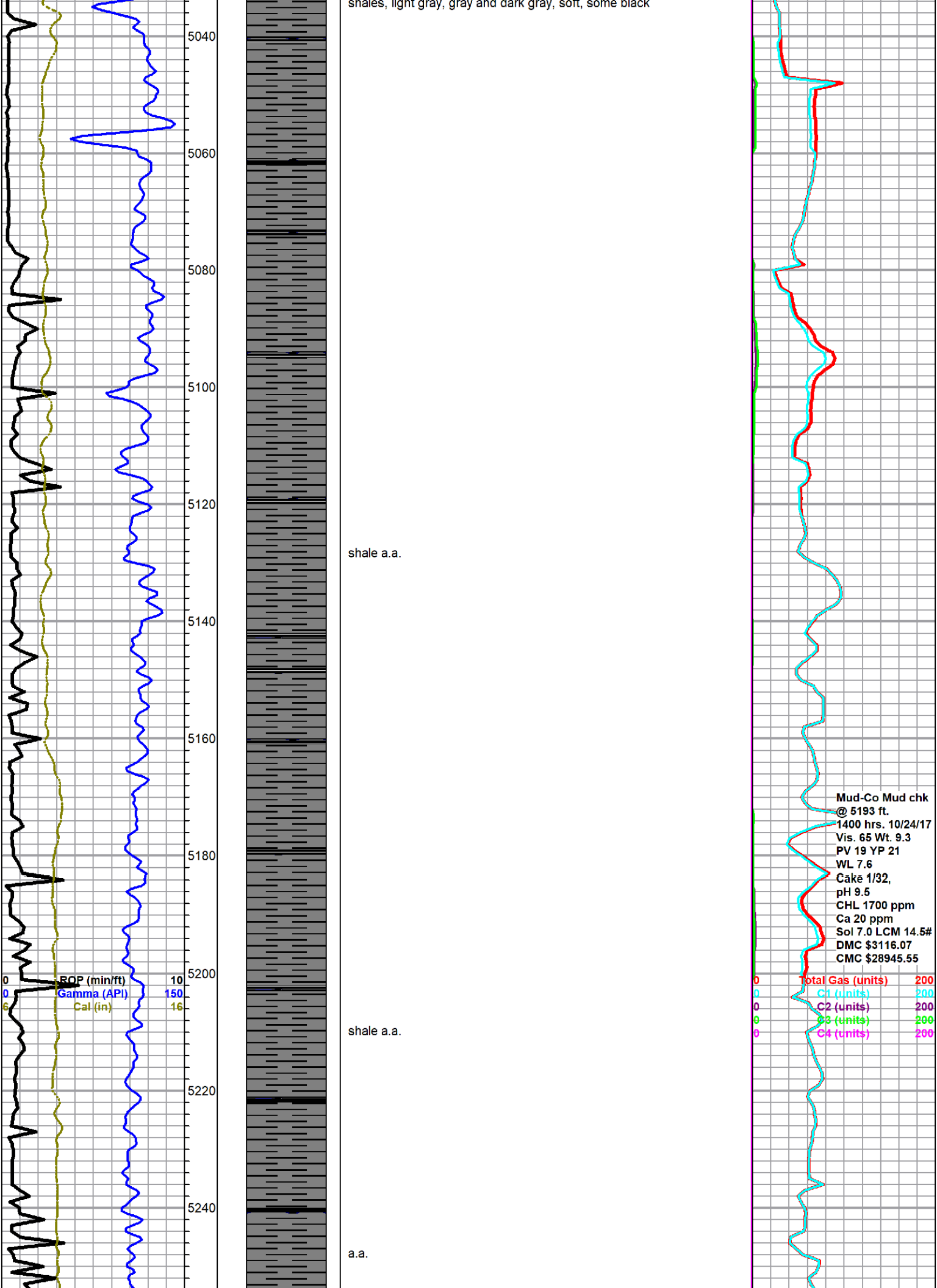
limestone, tan to gray, oolitic to oomoldic, good oomold porosity, yellow/green fluoresence, barren, abundant chalk

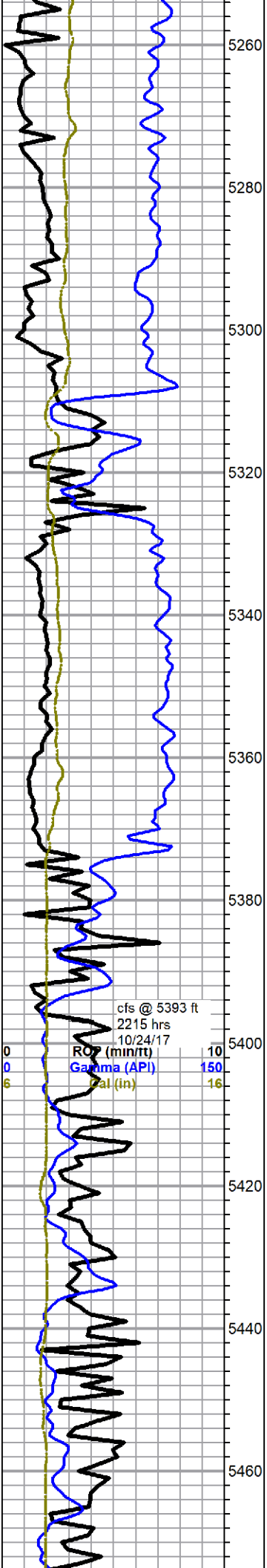
limestone, white to gray mottled, fossiliferous to bioclastic, weathered, appx 50% chalk in samples, no shows

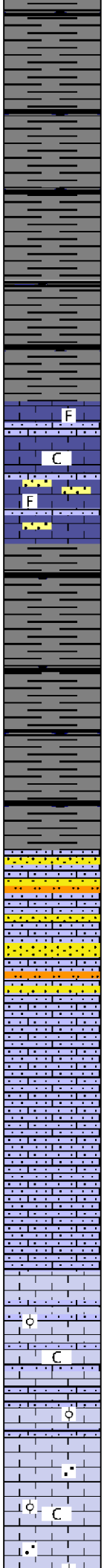

cfs @
4375 ft
0205 hrs
10/23/17
4380
0
ROP (min/ft)
5
0
Gamma (API)
150
6
Cal (in)
16
4400
cfs @
4410 ft
0445 hrs
10/23/17
4420
4440
4460
4480
cfs @ 4484 ft
0850 hrs
10/23/17
4500
SC
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
4520
4540
4560
4580
C
F
L
P
limestone, mixed gray to white, chalky fossiliferous, with limestone dark gray, cherty, arenaceous, dense, no shows
Marm C
limestone, white, chalky bioclastic with fine oomoldic, weathered, abundant chalk in samples, no shows
limestone, gray to tan and white, some mottled, microcrystalline, fossiliferous, chalky, no shows
limestone, dark gray to black, microcrystalline, gritty, arenaceous, cherty, dense, abundant black and gray chert, sharp, fresh
a.a. with influx gray compact lithographic limestones, cryptocrystalline, smooth
gray shale
Ft. Scott 4464 -1151
limestone, white to cream, gray and tan, mottled, micro-cryptocrystalline, chalky, fossiliferous, poor visible porosity, no shows, carrying abundant gray shale
shale, black/brown, carbonaceous, gassy
4510 sample, shale a.a. with almost all chalk, trace fine oomoldic, no other shows
grades to limestone, mixed non-descript fossiliferous, oolitic and argillaceous, no shows
shale, gray, with stringers llimestone, light gray, microcrystalline, fossiliferous, no shows
limestone, mixed fossiliferous and bioclastic, some chalky and heavily weathered, some sparry, poor visible porosity, no shows
sandstone to sandy limestone, gray, fine grain, angular to rounded, poorly sorted, glauconitic, pyritic, poor visible porosity, no show
0
Total Gas (units)
100
0
C1 (units)
100
0
C2 (units)
100
0
C3 (units)
100
0
C4 (units)
100
shale kick
re-cycle
run wiper trip @ 4510 ft back into surface casing
Mud-Co Mud chk @ 4510 ft.
1355 hrs. 10/23/17
Vis. 80 Wt. 9.3
PV 22 YP 24
WL 8.0
Cake 1/32,
pH 9.5
CHL 2150 ppm
Ca 40 ppm
Sol 7.0 LCM 12#
DMC $3058.95
CMC $25829.48


ROP (min/ft) 10
Gamma (API) 150
Cal (in) 16
4600
4620
4640
4660
4680
4700
4720
4740
4760
4780
4800
Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100
gray shales, streaks of light gray siltstone and dense very fine grain limestone, light gray sandy limestones, glauconitic and pyritic
dark gray shales
limestone, light gray to white, microcrystalline, arenaceous, lithographic to fossiliferous, chalky in part, no shows
increase fossiliferous limestone, abundant chalk
shales, gray to dark gray, calcereous, some very dense and limey with gray argillaceous limestone
a.a.
Atoka 4734 -1421
limestone, tan to cream, gray and white, microcystalline, fossiliferous, chalky to argillaceous, some with black chert, with limey gray shale, black to tan fossiliferous cherts, no shows
limestone, light gray to cream, microcrystalline, fossiliferous, arenaceous to chalky, poor visible porosity, with limestone, tan/yellow tint, cryptocrystalline, dense, large fossil clasts, no shows


4820
4840
4860
4880
4900
4920
4940
4960
4980
5000
5020
cfs @ 4869 ft
0730 hrs
10/24/17
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
F
C
limestone, light gray to cream, microcrystalline, fossiliferous, arenaceous to chalky, poor visible porosity, with light gray sandy limestone and light gray siltstone
Atoka Shale 4849 -1536
shale, black carbonaceous
limestone, light gray to white, chalky fossiliferous and light gray cryptocrystalline, dense lithographic
black carbonaceous shale and limestone a.a.
black carbonaceous shale and limestone a.a., gray and black shales with some tan and gray mottled limestone, large clasts, no shows
black carbonaceous, black and gray shales, limestone stringers a.a., with scattered black fossiliferous cherts
limestone, mottled gray, microcrystalline, fossiliferous, chalky in part, with gray argillaceous limestone, shales a.a.
a.a.
Morrow 5026 -1713
shale gas kick
shut down to work on pump
SC
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
lost gas here, mud diverted around extractor to jet pits
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200


shales, light gray, gray and dark gray, soft, some black
5040
5060
5080
5100
5120
shale a.a.
5140
5160
5180
5200
shale a.a.
5220
5240
a.a.
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
Mud-Co Mud chk
@ 5193 ft.
1400 hrs. 10/24/17
Vis. 65 Wt. 9.3
PV 19 YP 21
WL 7.6
Cake 1/32,
pH 9.5
CHL 1700 ppm
Ca 20 ppm
Sol 7.0 LCM 14.5#
DMC $3116.07
CMC $28945.55
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200





Morrow lime marker 5310 -1997

5340 sample, picking up gray mottled limestone, chalky, fossiliferous, chalky, sandy, with pyrite

influx sandstone, very fine grain, gray to salt and pepper, dirty, poorly sorted, pyritic, glauconitic, with pyrite crystals, no shows, still mostly shales

Mississippian 5373 -2060

pale green calcareous siltstone to silty limestone, dense to friable, some sandstone clusters, fine to very fine grain, angular to rounded, poorly sorted, med. cemented, glauconitic, dirty, poor visible porosity, no show or odor, some white chalky limestone, sandy - still mostly shale in samples

5400 sample, a.a.

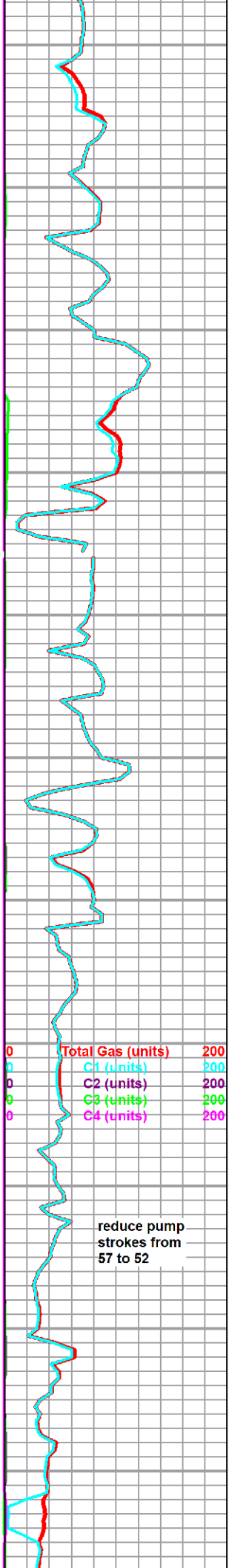
5410 and 5420 samples, almost all shale a.a., poor samples

5430 - 5450 sample, marked increase of limestone, pale green, light gray and white, sandy, some chalky, dense to friable, sandstone drops out, still predominant shale in samples

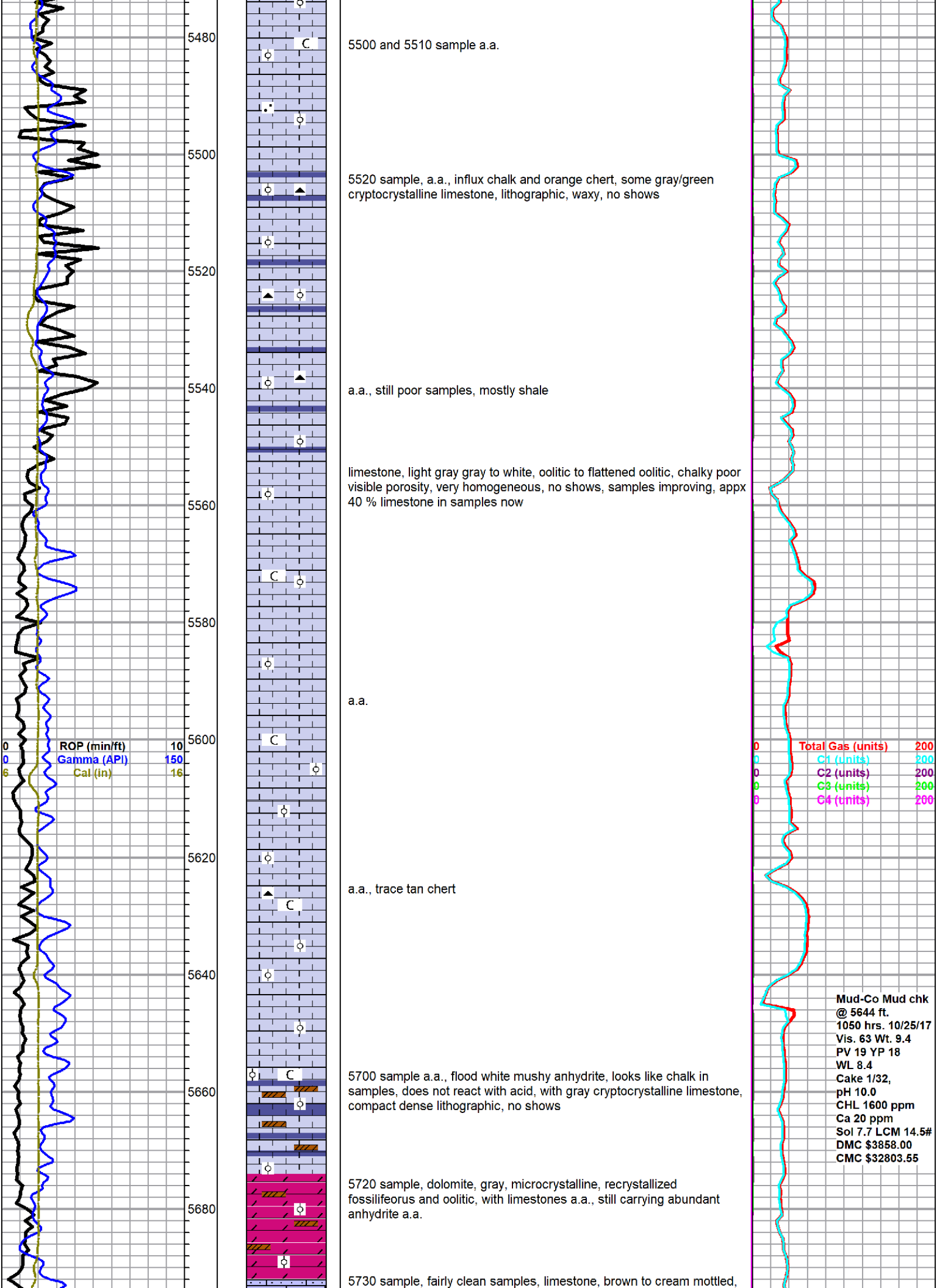
St. Louis 5430 -2117

5460 sample, some small specimens flattened oolitic limestone, white, chalky, sandy, soft, friable, some sandy limestone a.a., still mostly shale, no shows

5470-90 samples, limestone, white, very fine oolitic to flattened oolitic, sandy in part, chalky, soft, friable, poor visible porosity, no shows, still mostly shale but limestone increasing



reduce pump strokes from 57 to 52


0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
5480
5500
5520
5540
5560
5580
5600
5620
5640
5660
5680
C
5500 and 5510 sample a.a.
5520 sample, a.a., influx chalk and orange chert, some gray/green cryptocrystalline limestone, lithographic, waxy, no shows
a.a., still poor samples, mostly shale
limestone, light gray gray to white, oolitic to flattened oolitic, chalky poor visible porosity, very homogeneous, no shows, samples improving, appx 40 % limestone in samples now
a.a.
a.a., trace tan chert
5700 sample a.a., flood white mushy anhydrite, looks like chalk in samples, does not react with acid, with gray cryptocrystalline limestone, compact dense lithographic, no shows
5720 sample, dolomite, gray, microcrystalline, recrystallized fossilifeorus and oolitic, with limestones a.a., still carrying abundant anhydrite a.a.
5730 sample, fairly clean samples, limestone, brown to cream mottled,
Mud-Co Mud chk
@ 5644 ft.
1050 hrs. 10/25/17
Vis. 63 Wt. 9.4
PV 19 YP 18
WL 8.4
Cake 1/32,
pH 10.0
CHL 1600 ppm
Ca 20 ppm
Sol 7.7 LCM 14.5#
DMC $3858.00
CMC $32803.55

sandy, micro-oolitic, very chalky, no visible porosity, soft, no shows

grades to limestone, gray, cryptocrystalline, fossiliferous to flattened oolitic, slightly chalky, poor visible porosity, no shows

5750 sample, limestone, gray to brown and white mottled, oolitic to fossiliferous, chalky to cherty, heavily weathered, poor visible porosity, no shows

cfs samples, limestone, light gray to tan, cryptocrystalline, fossiliferous, dense, with flood mushy white anhydrite, no shows

Rotary TD @ 5750 ft, 1345 hrs, 10/25/17
Pioneer Wireline TD 5750 ft
Compete Logging Operations 0400 hrs 10/26/17

	MDCI Venwin #1-30 660' FNL 1650' FEL Sec. 30-T29S-R40W 3313' KB					
Formation	Sample Top	Datum	Ref	Log tops	Datum	Ref
Anhydrite				1597	+1716	
B/Anhydrite				1608	+1705	+14
Heebner	3630	-317	+27	3628	-315	+29
Lansing	3696	-383	+24	3689	-376	+31
Stark	4139	-826	+26	4130	-817	+35
Pleasanton	4278	-965	+24	4278	-965	+24
Ft Scott	4464	-1151	+20	4460	-1147	+24
Morrow	5026	-1713	+22	5022	-1709	+26
Morrow Lm	5310	-1997	+10	5309	-1996	+11
Mississippian	5373	-2060	+20	5373	-2060	+20
RTD	5750	-2437				
LTD				5750	-2437	

TREATMENT REPORT

HURRICANE SERVICES INC

Customer:	Murfin Drilling Co.Inc.		Date:	10/19/2017	Ticket No.: 100816
Field Rep:	Juan Tinoco				
Address:					
City, State:					
County, Zip:					

Field Order No.:	100816	Open Hole:	
Well Name:	Venwin # 1-30	Casing Depth:	1775'.16
Location:	Johnson City	Casing Size:	8 5/8 24 LB
Formation:		Tubing Depth:	
Type of Service:	1775' Surface	Tubing Size:	
Well Type:	Oil	Liner Depth:	
Age of Well:	New	Liner Size:	
Packer Type:		Liner Top:	
Packer Depth:		Liner Bottom:	
Treatment Via:	Casing	Total Depth:	1777'

Perf Depths (ft)		Perfs
Total Perfs		0

TIME	INJECTION RATE FLUID	INJECTION RATE N2/CO2	PRESSURE STP	PRESSURE ANNULUS	REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
10:30 AM					Called Out			
2:00 PM					On Location W/FE Rig Still Drilling			
3:30 PM					Trucks On Location 10-19-17			
					TD=1777' TP= 1775'.16 SJ= 42'.29			
					AFU Insert 1 st Jt Centralizers 1/2 Way Jt 1-13-31-37			
10:45 PM					Start Casing			
12:20 AM					Casing On Bottom			
12:30 AM					Drop Ball Break Circulation			
12:47 AM	4.7		250.0		Start Pumping H20			6.00
12:50 PM	5.0		350.0		Start Mix & Pump 526 Sacks 65/35 6% Gel 3% CC 1/2 Lb PS			182.00
	4.0		275.0		Start Mix & Pump 225 Sacks 2 Gel 3% CC 1/2 Lb PS			57.00
1:55 AM					Shut Down Release 8 5/8 Top Rubber Plug			
1:57 AM	5.0		250.0		Start Displacement H20			
					65 Out Circulate Cement			60.00
2:30 AM	2.0		900.0		Plug Down			110.00
					Release Pressure & Float Held			
					Good Circulation Through Job			
					WOC 2 Hours Per Bernie			
					TOTAL:	-	-	414.00

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
5.0	4.1	900.0	405.0

PRODUCTS USED

Treater: Todd Seba

Customer: Juan Tinoco

TREATMENT REPORT

HURRICANE SERVICES INC

TIME	INJECTION RATE FLUID	N2/CO2	PRESSURE STP	ANNULUS	REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
5:00 AM					Cement to at Surface			
					Rack Up Trucks			
5:45 AM					Off Location 10-20-17			
					Thank You			
					Please Call Again			
					Todd Brad Cody Darren Zach			
					525 Sacks 65/35 6% Gel 3% CC 1/2 Lb Phono-seal			
					225 Sacks Common 2% Gel 3% CC 1/2 Lb Phono-seal			
					Circulate 125 Sacks To Pit			

Activity provided on this page is calculated in the summary and totals on page 1

TREATMENT REPORT

HURRICANE SERVICES INC

Customer:	Murfin Drilling Co.Inc.		Date:	10/26/2017	Ticket No.: 100821
Field Rep:	Juan Tinoco				
Address:					
City, State:					
County, Zip:					

Field Order No.:	100821	Open Hole:	
Well Name:	Venwin # 1-30	Casing Depth:	
Location:	Johnson City	Casing Size:	
Formation:		Tubing Depth:	1830'
Type of Service:	PTA	Tubing Size:	4 1/2 Drill Pipe
Well Type:	Oil	Liner Depth:	
Age of Well:	New	Liner Size:	
Packer Type:		Liner Top:	
Packer Depth:		Liner Bottom:	
Treatment Via:	5 1/2 DP	Total Depth:	5750'

Perf Depths (ft)		Perfs
	Total Perfs	0

TIME	INJECTION RATE FLUID	INJECTION RATE N2/CO2	PRESSURE STP	PRESSURE ANNULUS	REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
4:00 AM					Called Out			
9:45 AM					On Location W Trucks & Hold Safety Meeting			
					Spot & Set Up Trucks			
					1 St Plug @ 1830' 50 Sacks 60/40 4% Gel .25Lb PS			
10:28 AM	4.0		200.0		Start Pumping H20			10.00
	4.0		200.0		Start Mix & Pump 50 Sk			12.65
	4.0		200.0		Start Displacement H20			3.00
	7.0		250.0		Start displacement w Mud			19.74
10:45 AM					Shut Down PDPOOH			
					2 nd 720' 50 Sacks 60/40 4% Gel .25 Lb PS			
11:23 AM	4.0		150.0		Start Pumping H20			20.00
	4.0		150.0		Start Mix & Pump 50 Sk			12.65
	4.0		150.0		Start Displacement H20			6.50
11:35 AM					Shut Down PDPOOH			
12:00 PM	3.5		180.0		60' 20 Sacks 60/40 4% Gel .25 lb PS			5.06
12:14 PM	3.5		180.0		Rat Hole 30 Sacks 60/40 4% Gel .25 Lb PS			7.59
12:10 PM	3.5		180.0		Mouse Hole 20 Sacks 60/40 4 % Gel .25 Lb PS			5.06
12:20 PM					Wash Up & Rack Up Trucks			
					TOTAL:	-	-	

SUMMARY

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
7.0	4.2	250.0	184.0

PRODUCTS USED

170 Sacks 60/40 4% Gel .25 Lb Phenoseal

Treater: Todd Seba

Customer: Juan Tinoco