

Andrew White

Petroleum Geologist

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

Well Name: Milton #1
Location: 4-30S-39W
License Number: API: 15-187-21322
Spud Date: 01/19/16
Surface Coordinates: 560' FNL, 979' FWL

Region: Stanton Co., KS
Drilling Completed: 01/31/16

Bottom Hole
Coordinates:
Ground Elevation (ft): 3197 K.B. Elevation (ft): 3202
Logged Interval (ft): 3500 To: 5850 Total Depth (ft): 5850
Formation: Mississippian
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: Palomino Petroleum, Inc.
Address: 4924 SE 84th St.
Newton, KS 67114

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc.
Address: 1635 N. Waterfront Pkwy.
St. 100
Wichita, KS 67206

Remarks

Operations for the Milton #1 were turned over to White Exploration, Inc. at casing point.

General Info

Drilling Contractor: WW Rig 2

Logs: Gemini
Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

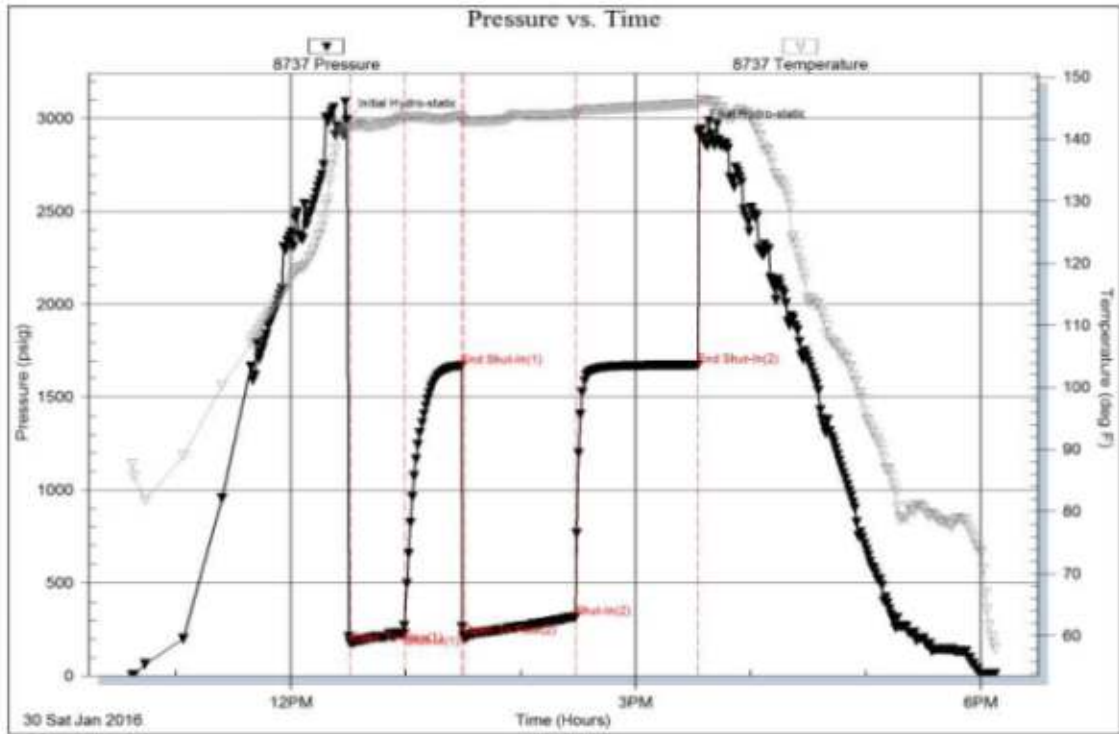
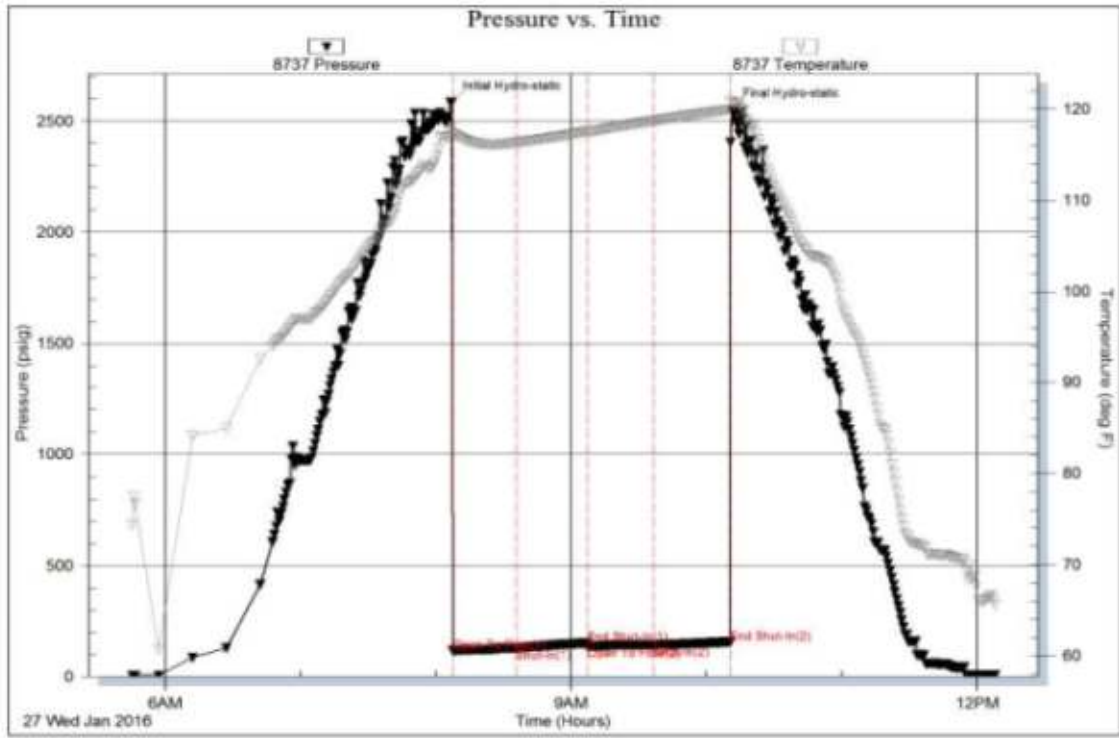
DST: Trilobite Testing

Surveys: 1741'-1.25, 5050'-.75, 5850'-1.25

Daily Status


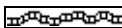
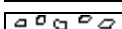
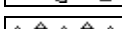
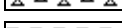


01/19/16: Spud well
 01/20/16: Drilling ahead @ 1578'
 01/21/16: Ran 41 jts. 8 5/8" surface @ 1739', cemented with 590 sacks Common, 2% gel, 3% c.c.
 01/22/16: Drilling ahead @ 2626'
 01/23/16: Drilling ahead @ 3365'
 01/24/16: Drilling ahead @ 3962'
 01/25/16: Drilling ahead @ 4430'
 01/26/16: Drilling ahead @ 4852'
 01/27/16: Running DST #1 4870-5050
 01/28/16: Drilling ahead @ 5282'
 01/29/16: Drilling ahead @ 5620'
 10/30/16: Logging @ 5850





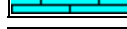

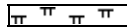

Palomino				Palomino		Presco		Ensign		Presco	
Milton #1				Byers-Shore #1		Hauser Trust		Baughman 1-9		Katherine Trust	
4-30S-39W				2-30S-30W		5-30S-39W		9-30S-39W		1-30S-39W	
560'FNL, 979' FWL				2254' FSL, 959' FEL		1276'FNL, 330' FWL		4290' FSL, 990' FEL		644' FNL, 1767' FEL	
KB:3202				KB: 3166		KB: 3237		KB: 3210		KB: 3169	
Sample	Log	Datum		Relationship		Relationship		Relationship		Relationship	
Anhy.	1691	1691	1511	-31		-76		-52		-16	
Base Anhy.	1706	1706	1496	33		-31		1		42	
Heebner	3778	3782	-580	60		-43		16		67	
Lansing	3858	3865	-663	83		-25		37		98	
Marmaton	4464	4468	-1266	86		-51		29		111	
Cherokee	4668	4668	-1466	75		-54		34		98	
Morrow	5186	5174	-1972	58		-49		39		63	
LMM	5452	5462	-2260	42		-26		57		63	
Chester	5555	5606	-2404	-20		-98		-21		-6	
Miss	5658	5680	-2478	-2		-125		-21		17	
St. Louis	5747	5738	-2536	-10		-69		2		1	

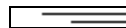
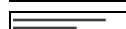





ROCK TYPES

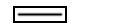







LITHOLOGY

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Coal
-  Congl

-  Dol
-  Gyp
-  Igne
-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale

-  Shcol
-  Shgy
-  Sltst
-  Ss
-  Till

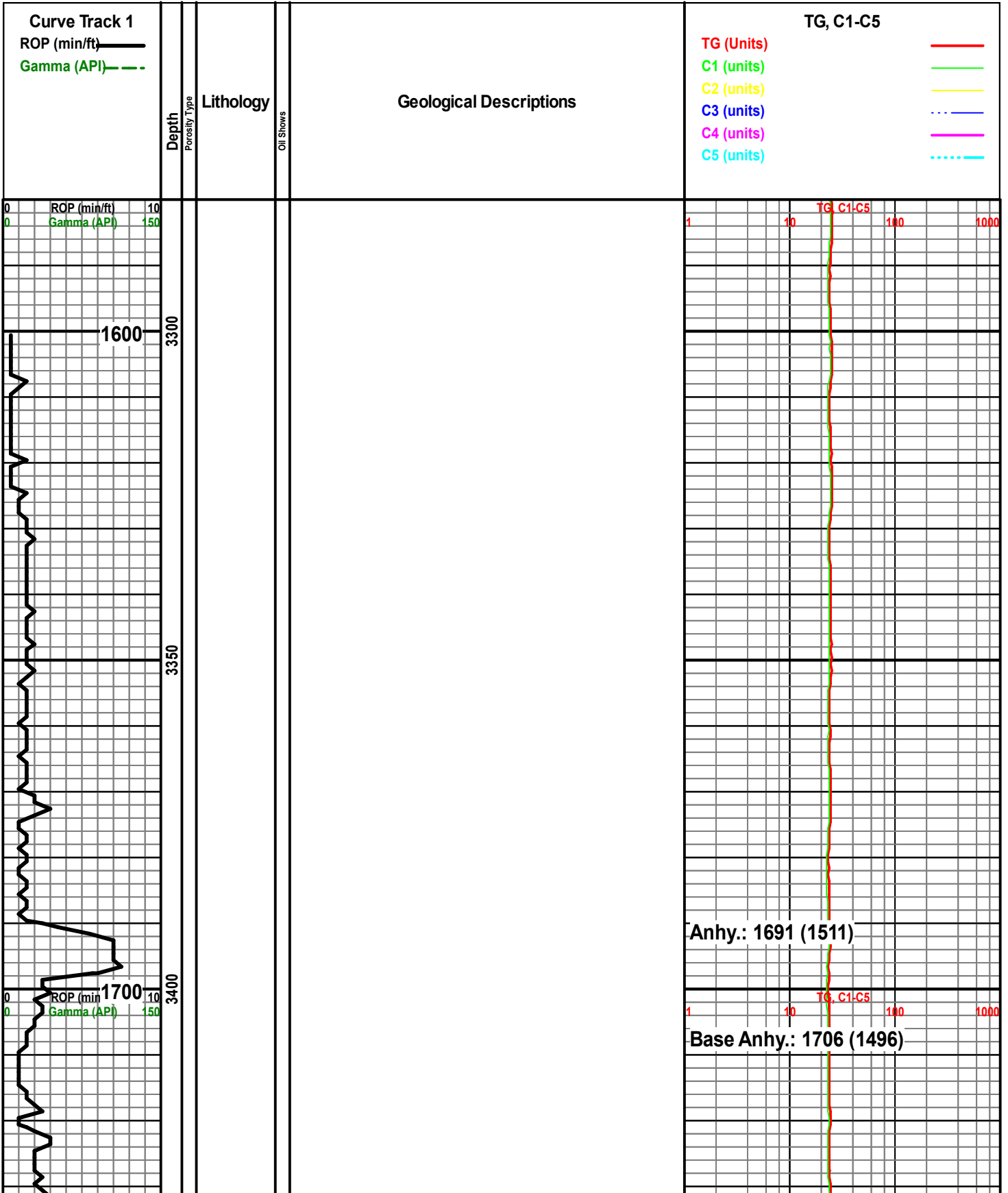
- STRINGER**
-  Anhy

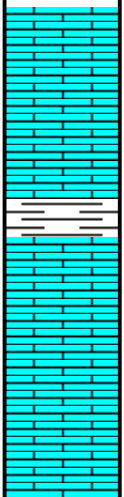
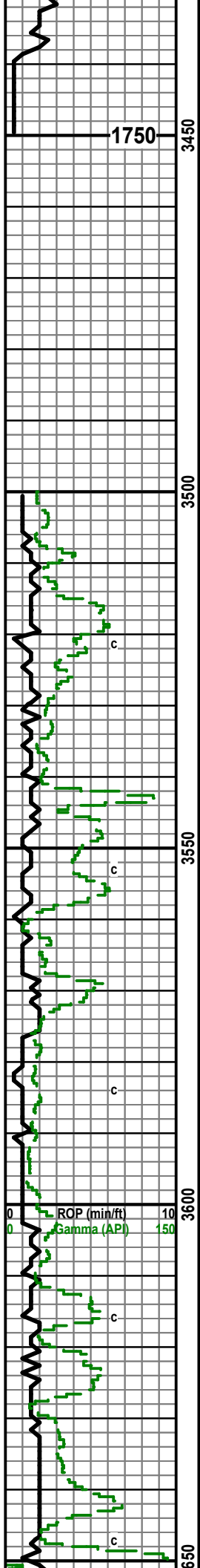
-  Arg
-  Bent
-  Coal
-  Dol
-  Gyp
-  Ls
-  Mrst
-  Sltstrg

-  Ssstrg

OIL SHOW

-  Even
-  Spotted
-  Ques
-  Dead





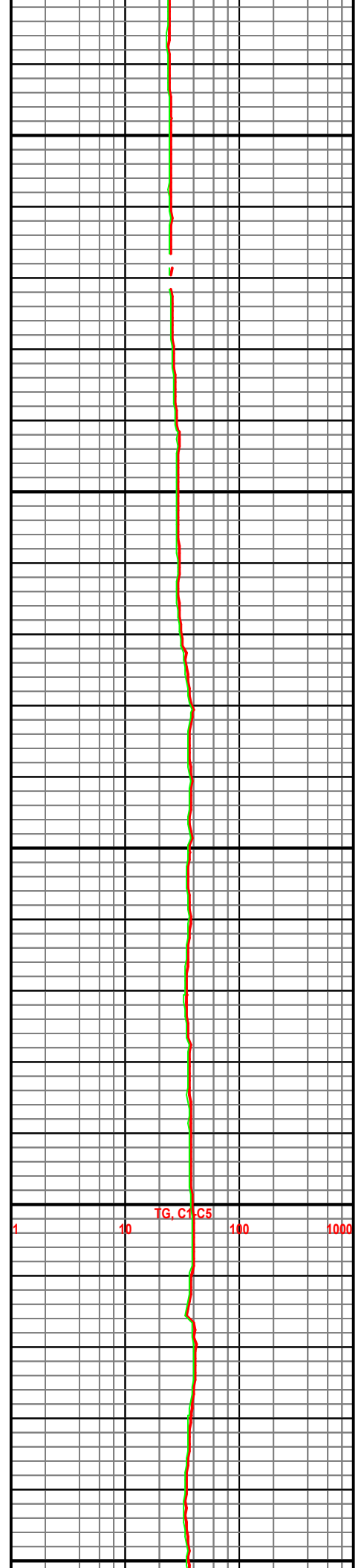
LS: crm, f-mcrxln, sli fos, chalky

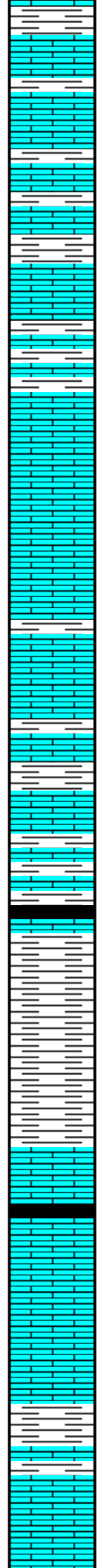
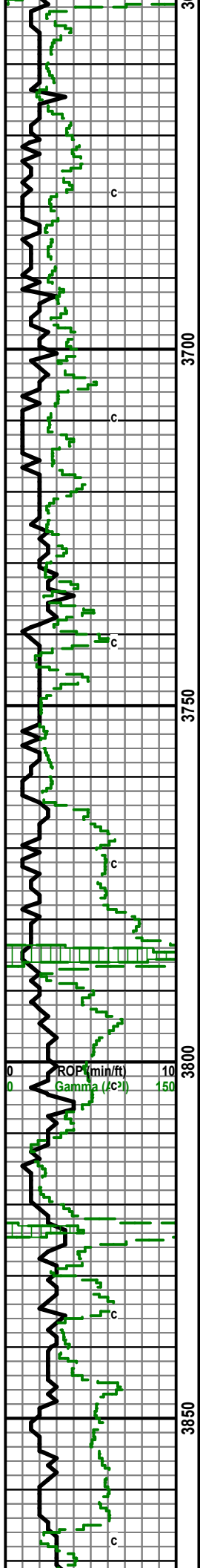
LS: crm, some tan, sli fos, some ool, chalky

LS: crm-gry, mcr-fxln, chalky, sli fos, Sh: gry-lt gry

LS: A.A.

LS: crm-tan, mcr-fxln, sli fos, sme chrt





LS: gry-crm, mcrxln, sli fos, Sh: lt gry-gry

LS: gry-crm, mcr-fxln, sli fos, few Sh: A.A.

LS: crm-sli gry, mcrxln, Sh: gry-lt gry, few blk

LS: crm-tan-gry, mcr-fxln, sli fos, Sh: gry-lt gry

LS: crm-tan, sli gry, mcr-fxln, sli fos, chalky, some Sh: drk gry-gry, few blk

LS: crm-gry, mcrxln, chalky

LS: crm-sli tan, mcr-fxln, sli fos, chalky

LS: crm-sli gry, mcrxln, chalky

LS: A.A. with Sh: lt gry

LS: tan-gry, mcrxln, chalky, Sh: lt gry-gry

LS: crm-tan, mcrxln, sli fos, sli chalky, Sh: gry, some drk gry-blk

LS: tan-crm, mcrxln, some chert, Sh: gry-drk gry

LS: crm, mcrxln, chalky, Sh: A.A.

Sh: gry-lt gry

Sh: A.A.

Sh: gry-lt gry, few blk

LS: crm, mcrxln, sli cherty, Sh: A.A.

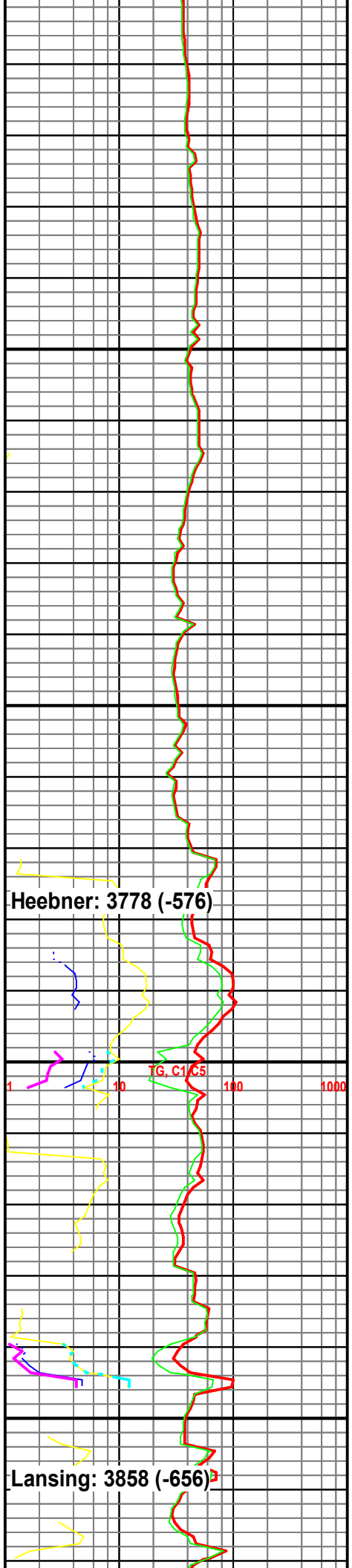
LS: crm, mcrxln, chalky

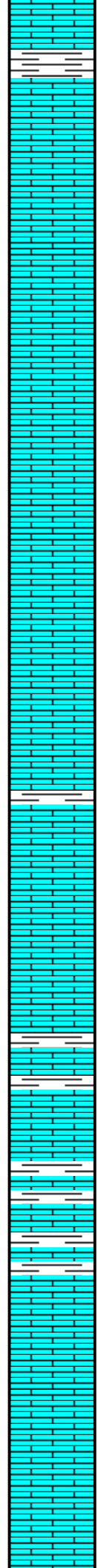
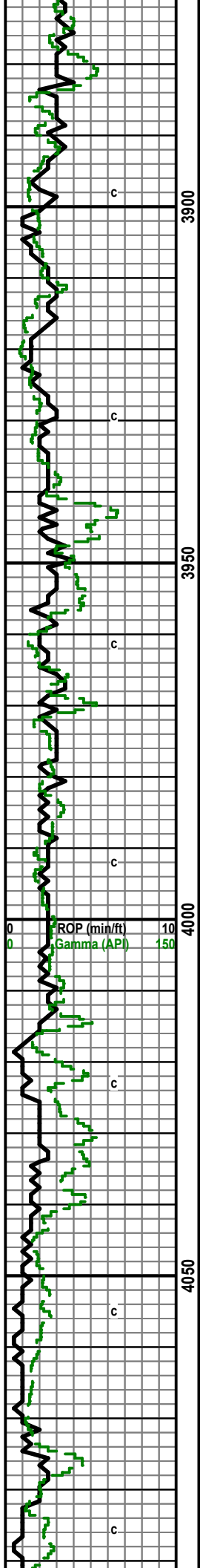
LS: A.A.

LS: A.A. with Sh: lt gry, some blk

LS: A.A. with Sh: gry-lt gry, few blk

LS: tan, mcr-fxln, sli chalky, Sh: gry-drk gry





LS: crm-gry, sli tan, chalky, Sh: A.A.

LS: A.A.

LS: crm, mcrxln, sli fos, some chlck

LS: A.A.

LS: crm-tan, mcrxln, sli cherty, some chalk

LS: A.A.

LS: A.A. with Sh: gry-drk gry

LS: crm, mcrxln, chalky, sli fos

LS: gry-tan, mcrxln, sli fos

LS: A.A.

LS: crm-gry, mcrxln, fos, Sh: gry-lt gry

LS: A.A., Sh: A.A.

LS: gry-crm, mcrxln, sli fos

LS: A.A. with Sh: lt gry-gry

A.A.

LS: gry-tan, mcr-fxln, sli fos, Sh: lt gry-gry

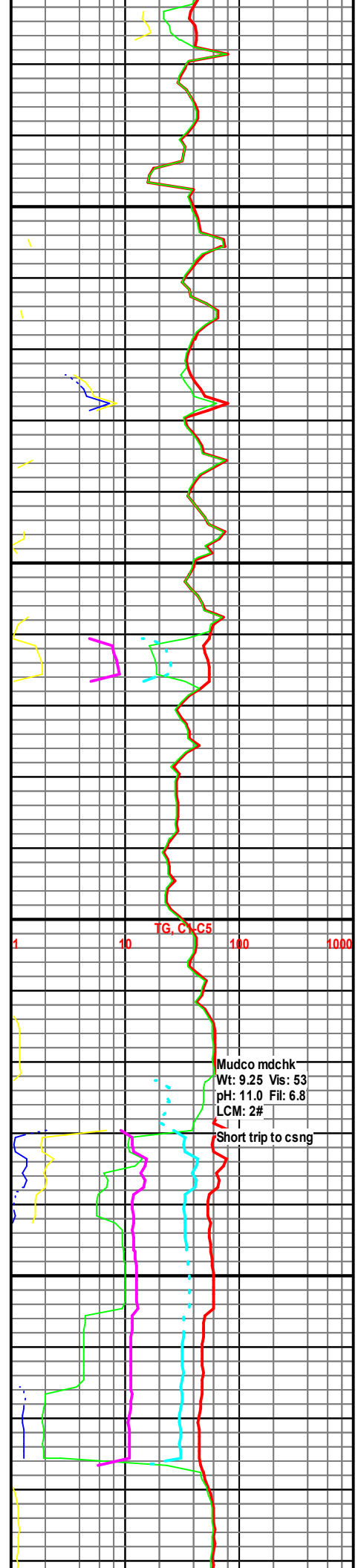
LS: gry-tan-crm, fxln, sli fos, chlky, Sh: gry-lt gry

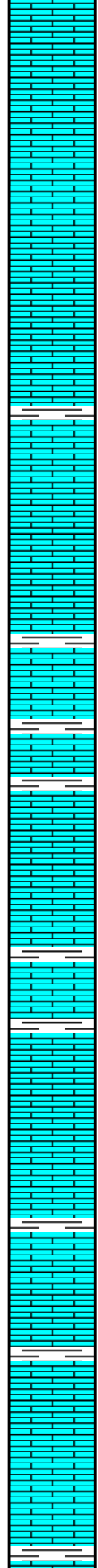
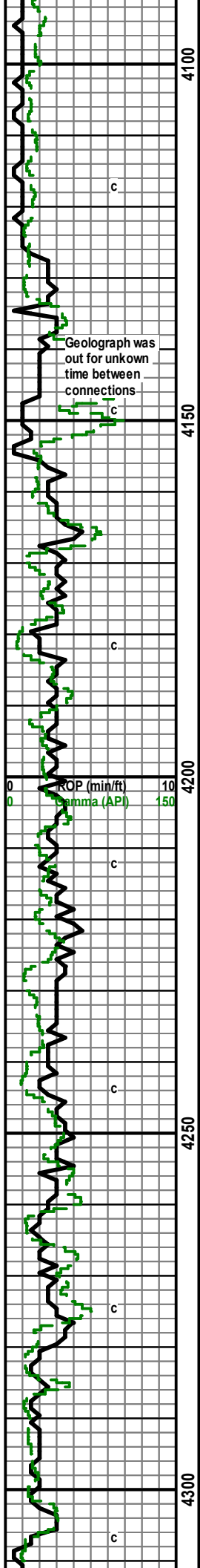
LS: gry-crm, sli tan, fxln, chalky

LS: gry-crm, mcr-fxln, chlky

LS: A.A.

LS: A.A.





LS: gry-crm, mcrxln, sli fos, sli ool, chlky

LS; A.A.

LS: crm-tan, ool, chalky (80% of samp chalk)

LS: A.A. (80% chalk)

LS: gry-sli crm, mcrxln, ool in prt, some chert, chalk

LS: crm-gry, mcrxln sli ool, chalk, some Sh: gry-lt gry

LS: crm-gry, sli tan, mcrxln, sli fos, chalk

LS: A.A.

LS: crm-gry, mcrxln, some Sh: gry

LS: gry-tan, sli crm, mcrxln, sli fos, some chert, some Sh: A.A.

LS: gry-tan, mcrxln, some fxln, sli fos, chalky, some Sh: gry

LS: gry, sli crm, mcr-fxln, sli fos, some chert, sli chalk

LS: gry, sli crm, mcrxln, sli cherty, sli fos

LS: gry-crm, mcrxln, sli chalky, sli chert, Sh: gry-lt gry

LS: crm-gry, mcr-fxln, sli fos, sli chalk

LS: crm-tan, sli gry, mcrxln, sli chalky, sli fos

LS: tan-gry, sli crm, mcrxln, sli fos, sli chalk, Sh: gry

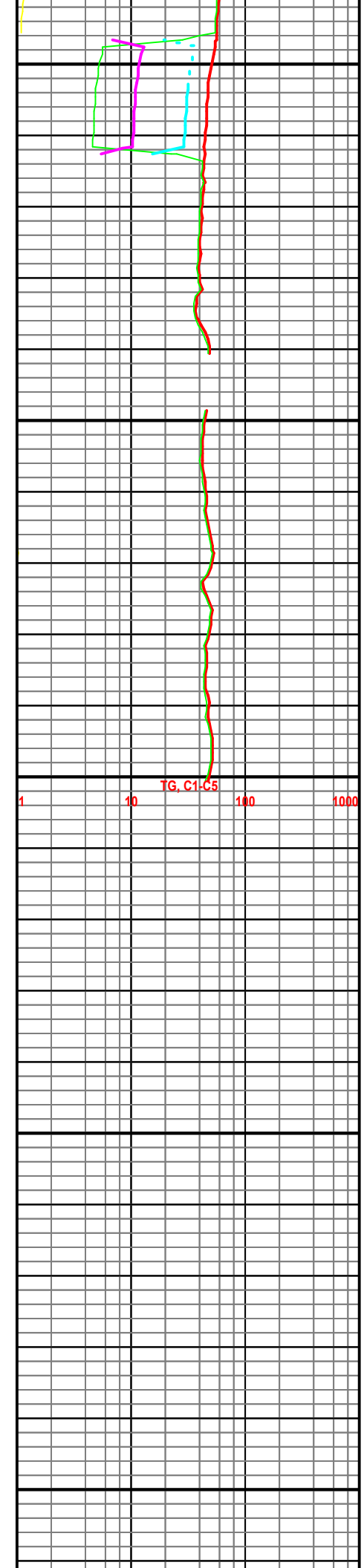
LS: A.A.

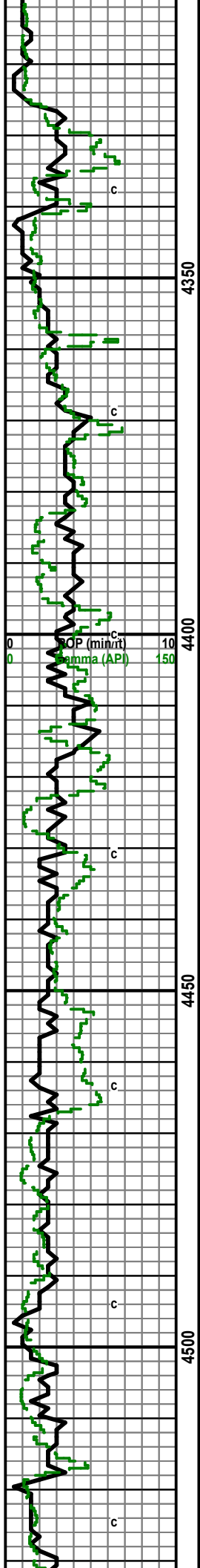
LS: gry-crm, sli tan, mcrxln, sli fos, chalky, few ool, Sh: gry

LS: crm-gry, mcrxln, sli fos, chalky

LS: tan-crm, fxln, fos, 80% chalk

LS: A.A. 80% chalk, Sh: gry





LS: gry-tan, sli crm, fxln, fos, 80% chalk

LS: tan-gry, mcr-fxln, fos, sli chalk, sli chert

LS: tan-crm, sli gry, mcrxln, fos, sli chalk

LS: tan-gry, mcr-fxln, sli ool, sli cherty, some chalk

LS: gry-tan, mcrxln, sli chert, some chalk, Sh: gry

LS: tan-gry, mcrxln, sli ool, chalky

LS: gry-tan, mcrxln, sli fos, few ool, Sh: gry

LS: A.A.

LS: tan-crm, mcrxln, sli fos, Sh: gry-lt gry

LS: gry-tan, sli crm, mcrxln, sli fos, Sh: A.A.

LS: gry, sli tan/brwn, mcrxln, sli fos

LS: A.A. Sh: gry

LS: tan/brwn-crm, mcrxln, sli fos, Sh: A.A.

LS: gry-crm, mcrxln, sli fos, cherty, Sh: A.A.

LS: gry-crm, mcrxln, sli chert, some Sh: gry

LS: and Sh: A.A.

LS: crm-sli tan, mcrxln, sli fos, sli chert

LS: crm-tan, mcrxln, few fxln, sli fos, Sh: gry-lt gry

LS: crm, sli tan, mcrxln, sli fos, few ool, some Sh: A.A.

LS: crm, sli tan, mcrxln, chalky, Sh: gry,

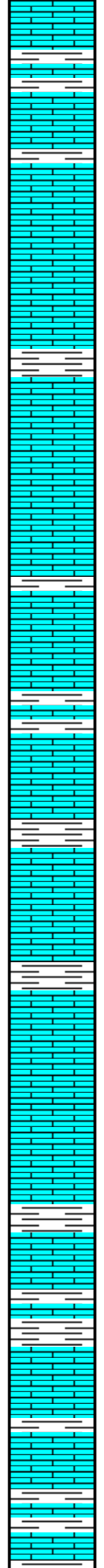
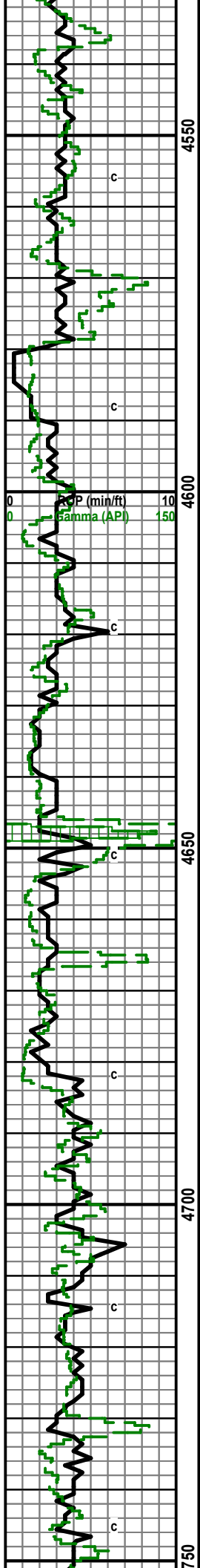
LS: tan-crm, mcrxln, sli ool, chalky

LS: crm-tan mcrxln sli ool chalky

TG, C1-C5
1 10 100 1000

Marmaton: 4464 (-1262)

Mudco mdchk
Wt: 9.35 Vis: 57
pH: 11.0 Fil: 6.4
LCM: 3#



LS: crm, sli gry-tan, mcrxln, sli ool, cherty
 gry

LS: gry-crm, mcrxln, sli ool, some chert, Sh: gry

LS: gry-tan/brwn, sli crm, mcrxln, sli ool

LS: gry, mcrxln, sli chalky, some chert, few tan, ool

LS: gry, sli crm/tan, mcrxln, some ool, Sh: gry-ltgy

LS: tan-gry, mcrxln, ool, cherty, sli chalky, some Sh: gry-drk gry

LS: A.A.

LS: crm, some gry, mcrxln, some fxln, ool in prt, sli cherty, sli chalky, some Sh: gry-drk gry

LS: A.A.

LS: tan-gry, sli crm, mcr-fxln, sli fos, sli cherty, Sh: gry-drk gry

LS: gry-crm, mcrxln, some fxln, sli fos, some chert, some Sh: A.A.

LS: tan/brwn-crm, sli gry, mcrxln, fos

LS: crm, sli gry, mcrxln, sli fos, chalky

LS: crm, mcrxln, fos, chalky

LS: crm-tan, sli gry, mcr-fxln, fos

LS: gry-crm-tan/brwn, mcrxln, some fxln, fos

LS: gry, sli crm, mcrxln, fos, sli chalky, Sh: gry-drk gry, sli blk

LS: gry-tan/brwn, mcrxln, fos, Sh: gry-drk gry, few blk

LS: gry, few tan-crm, mcrxln, fos, Sh: gry-drk gry, sli blk

LS: gry, mcrxln, fos, Sh: gry-drk gry, few blk

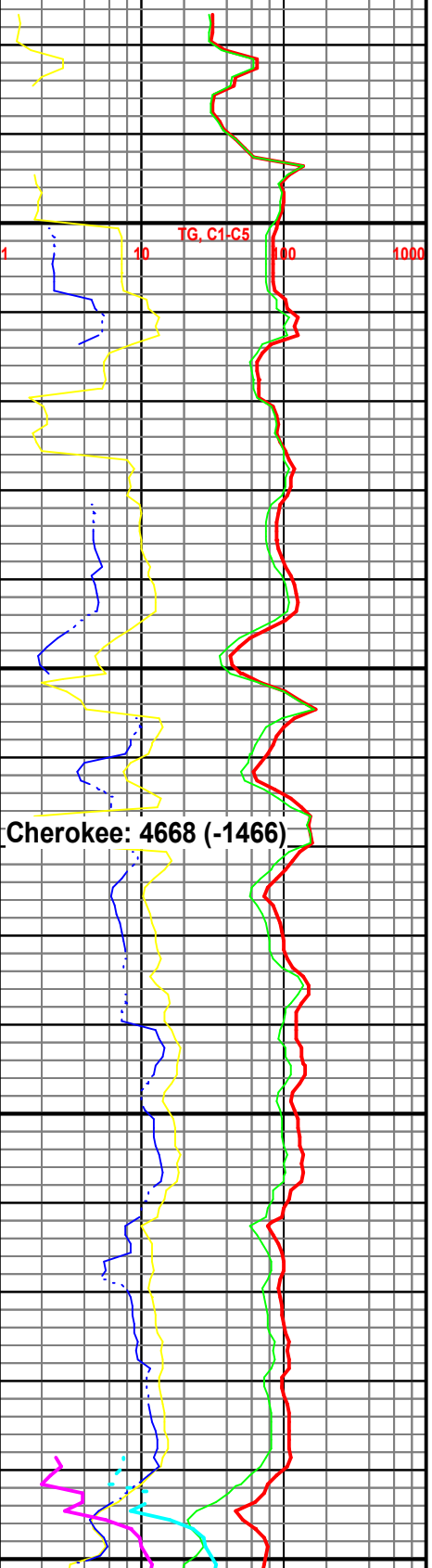
LS: gry, sli crm, mcrxln, Sh: gry

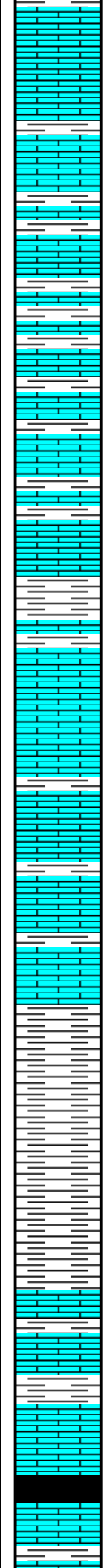
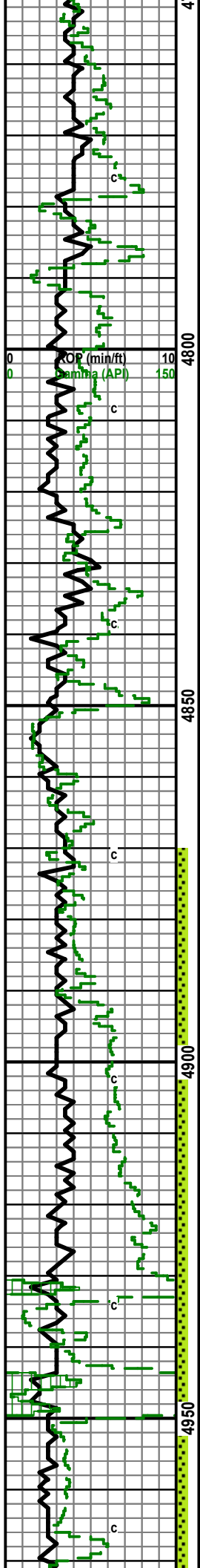
LS: gry-crm, mcrxln, fos, Sh: gry-drk gry-lt gry

Gas Detector down

TG, C1-C5
 1 10 100 1000

Cherokee: 4668 (-1466)





LS: gry-crm, mcrxln

LS: A.A. with Sh: gry-drk gry

LS: and Sh: A.A.

LS: crm-gry, mcrxln, sli fos, Sh: gry-drk gry

LS: crm, mcrxln, Sh: gry

LS: gry, mcrxln, Sh: gry-drk gry

LS: gry, mcrxln, Sh: gry

Sh: gry-drk gry, som LS: gry, mcrxln

LS: gry, sli tan, mcrxln, sli chrt, Sh: A.A.

LS: A.A.

LS: tan-gry, mcrxln, Sh: drk gry-gry

LS: crm, sli gry, mcrxln, chalky

LS: gry-crm, mcrxln, sli chalky, Sh: gry-drk gry

Sh: gry-drk gry, with some LS: gry, sli crm, mcrxln

Sh: drk gry-blck

Sh: gry-drk gry

Sh: drk gry-blck-gry

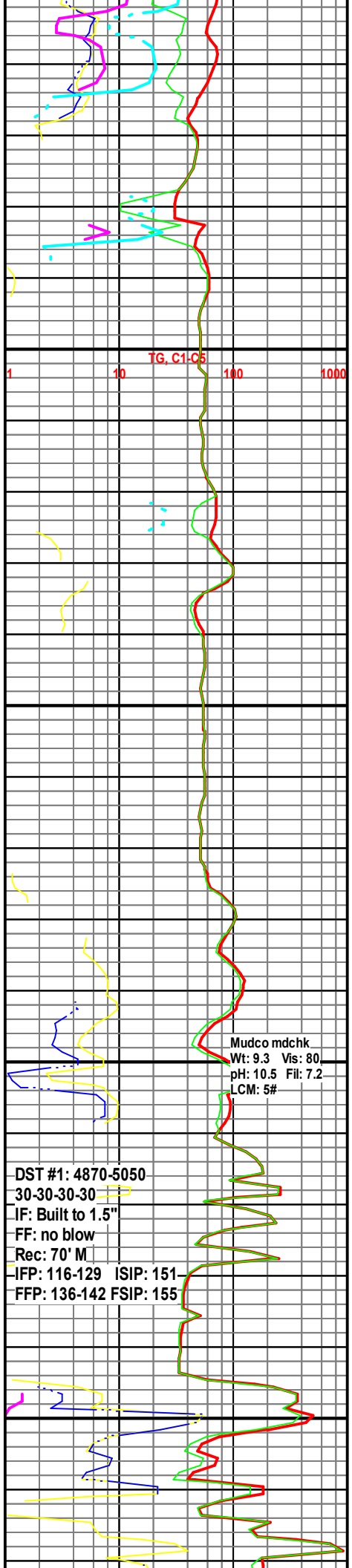
Sh: drk gry

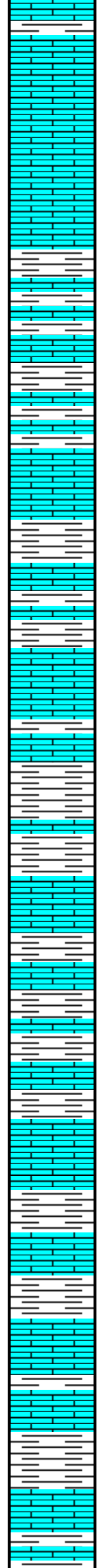
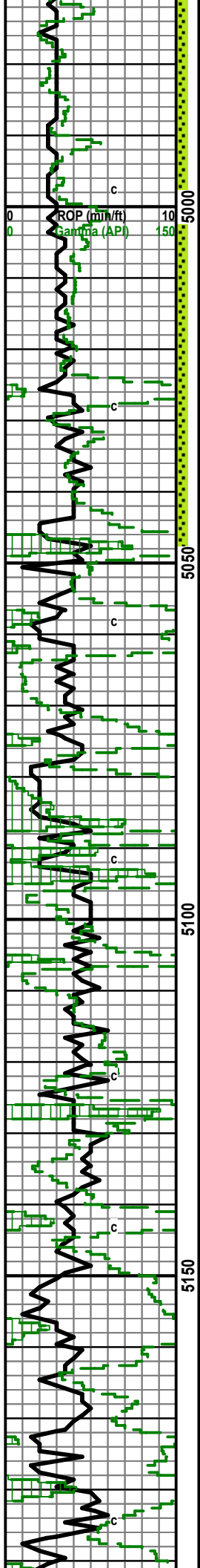
LS: tan, mcrxln, sli fos, with few Sh: A.A.

LS: tan, sli crm, mcrxln, sli fos, few friable pieces, vssfo, no odor, very dull to no yellow fluor, Sh: drk gry-gry

LS: gry sli crm, mcrxln, Sh: blk, gassy

LS: tan sli crm, mcrxln, sli fos, cherty, Sh: drk gry





LS: A.A. with Sh: drk gry-gry

LS: crm-gry, mcrxln, sli fos, sli chalky

LS: gry-crm, mcrxln, sli chalky

LS: gry, mcrxln, sli chalky, Sh: lt gry-gry

LS: A.A. with Sh: lt gry-gry-drk gry

LS: gry, mcrxln, sli chalky, Sh: lt gry

LS: A.A. with Sh: gry-lt gry few drk gry

Sh: drk gry-gry-blck, with few LS: gry, mcrxln

Sh: gry-drk gry-blck-lt gry, some LS: gry, sli crm, mcrxln

Sh: A.A. with LS gry, prt crm, mcrxln

Sh: drk gry-blck-gry-lt gry, few pieces LS: gry/crm, mcrxln

Sh: drk gry-blck, sli gry/lt gry, some LS: crm-gry, mcrxln

Sh: drk gry-blck-gry, sli lt gry, some LS: gry-crm, mcrxln

Sh: gry-lt gry-drk gry, LS: gry-crm, mcrxln

Sh: gry, drk gry, some LS: gry, mcrxln

Sh: A.A. with some LS: gry, sli crm, mcrxln

Sh: and LS: A.A.

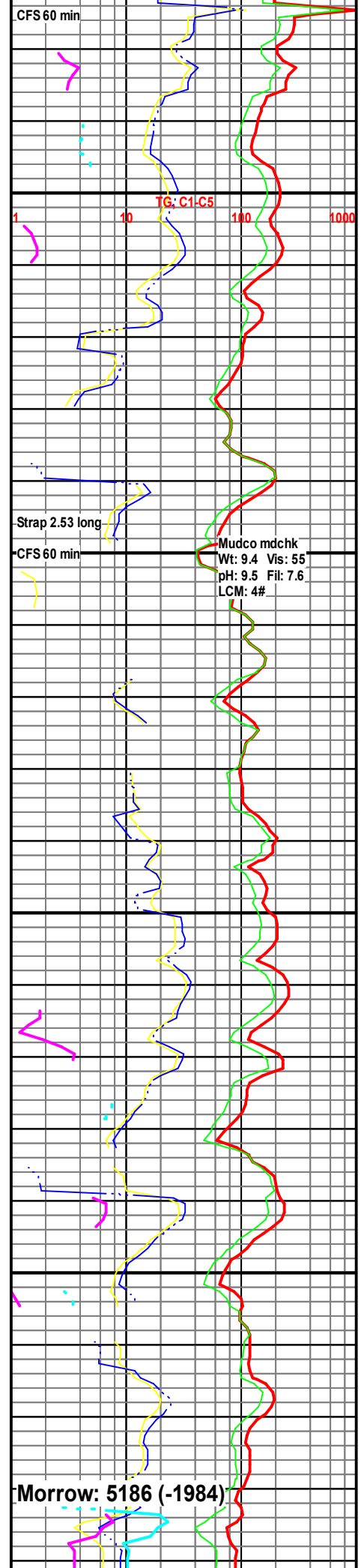
Sh: gry-drk gry-lt gry, LS: gry-sli crm/tan, mcrxln

Sh: drk gry-blck-lt gry, LS crm-gry, mcrxln

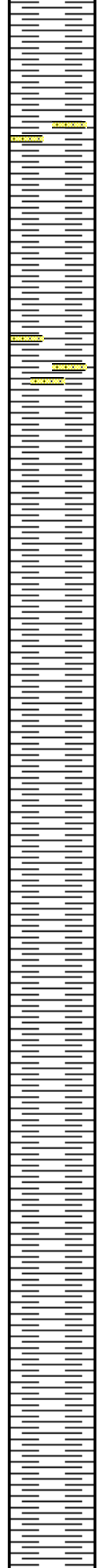
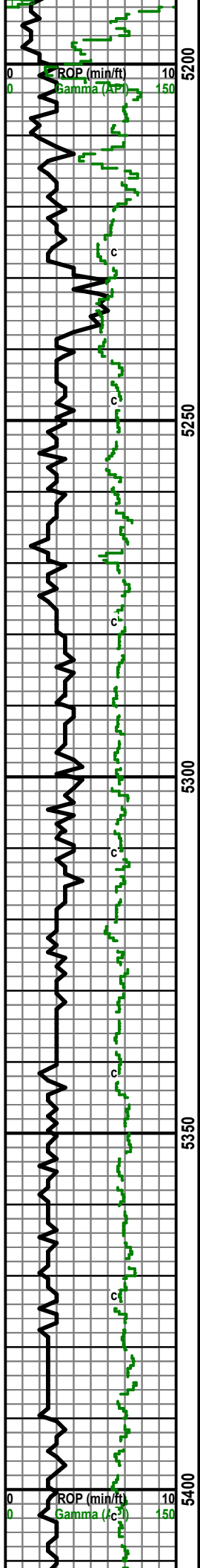
Sh: gry-drk gry, LS: gry-crm, mcrxln

Sh: drk gry-blck, LS: crm, mcrxln

Sh: drk gry-lt gry, with few pieces LS: crm, mcrxln



Morrow: 5186 (-1984)



Sh: A.A., with few pieces LS: A.A.

Sh: A.A. with some LS: crm, mcxln, and few SS: clear, sli opaque, sub round, well sort, sub friable, sli pyrite, no show

Sh: gry-lt gry

Sh: A.A.

Sh: gry-drk gry, few SS: cler, fgrn, sub ang, well sort

Sh: A.A.

Sh: A.A.

Sh: gry-drk gry-lt gry

Sh: A.A.

Sh: A.A.

Sh: gry-lt gry-drk gry

Sh: A.A.

Sh: A.A.

Sh: gry-lt gry

Sh: A.A.

Sh: A.A.

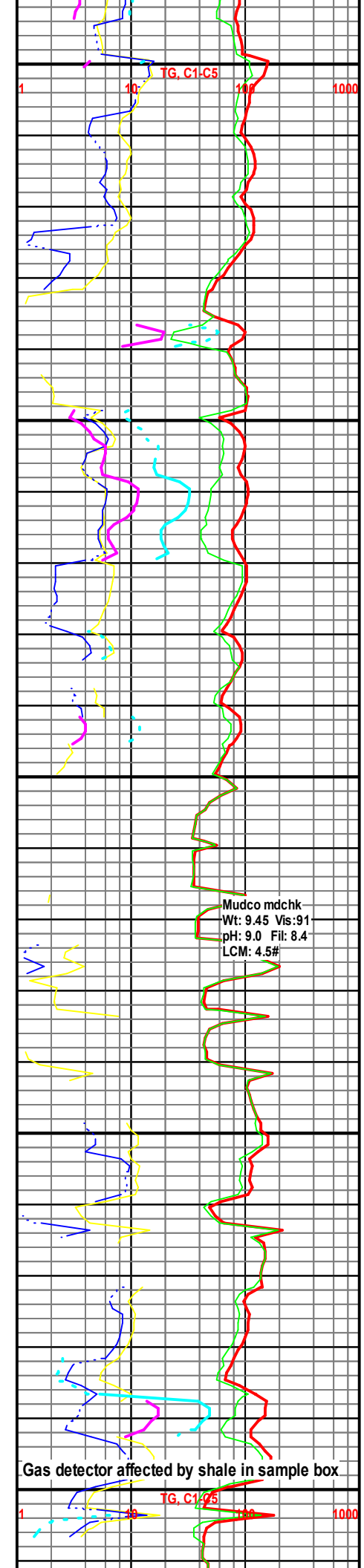
Sh: gry-lt gry

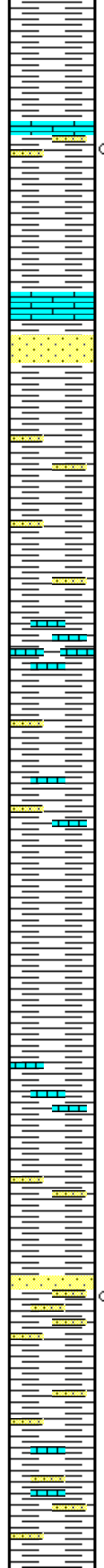
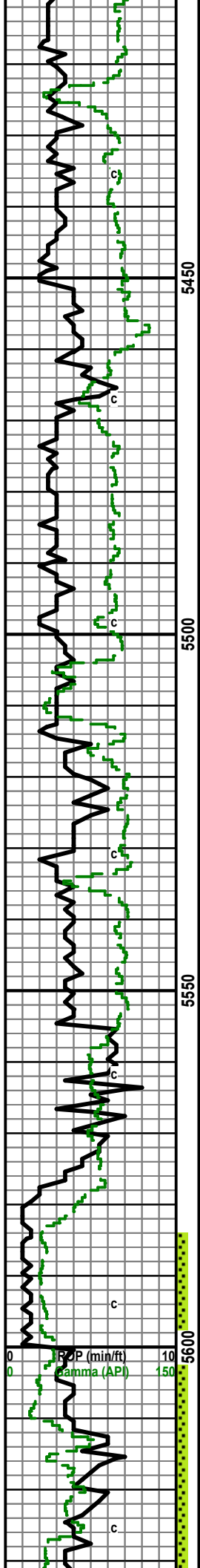
Sh: A.A.

Sh: A.A.

Sh: gry-drk gry-lt gry

Sh: A.A.





Sh: gry-lt gry, some drk gry

Sh: A.A.

Sh: A.A. few pieces LS: crm, mcrxln, sandy, a couple pieces, SS: clear, fgm, sub ang, well sort, possible SO/G, look from Sh: gry, sli odor, no fluor

Sh: gry-drk gry-lt gry

Sh: gry-lt gry-drk gry, some LS: crm-gry, mcrxln

Sh: A.A. with some SS: vf-fgm, crm/gry silty in prt, sub ang, pr sort, sli limey,

Sh: gry-lt gry-drk gry, some SS: A.A.

Sh: A.A.

Sh: gry-drk gry-lt gry, few pieces SS: opaque-/gry, sub ang, pr sort, sli silty

Sh: A.A. with some SS: A.A. and LS: tan/sli reddish orange, mcrxln

Sh: gry-drk gry-lt gry, some red, some SS: opaque-gry, m-fgm, some coarse, friable, glauc, calcite, chalky in prt, sli pyritic

Sh: A.A. with some SS: A.A. and some LS: crm-tan, sli sandy, mcr-fxln

Sh: gry-drk gry-lt gry

Sh: A.A.

Sh: A.A. some LS: crm-tan, mcrxln

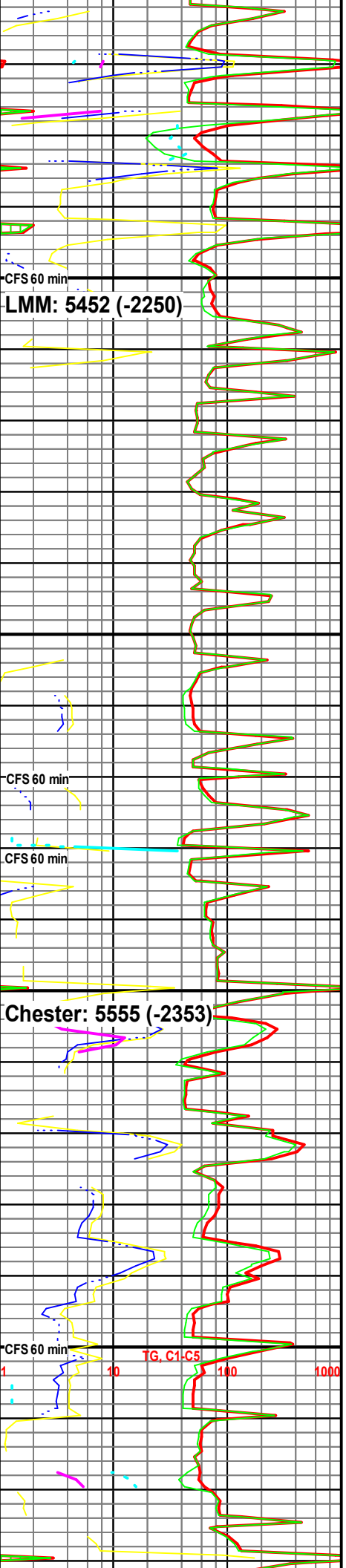
Sh: gry-drk gry

Sh: A.A. with few pieces LS: A.A. and SS: opaque-gry, fgm

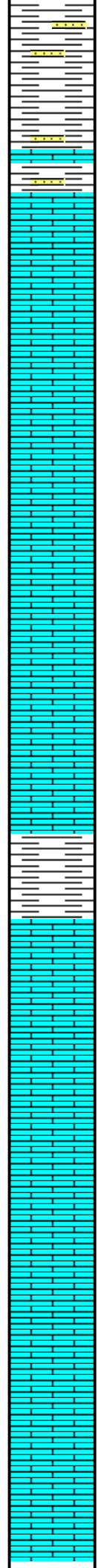
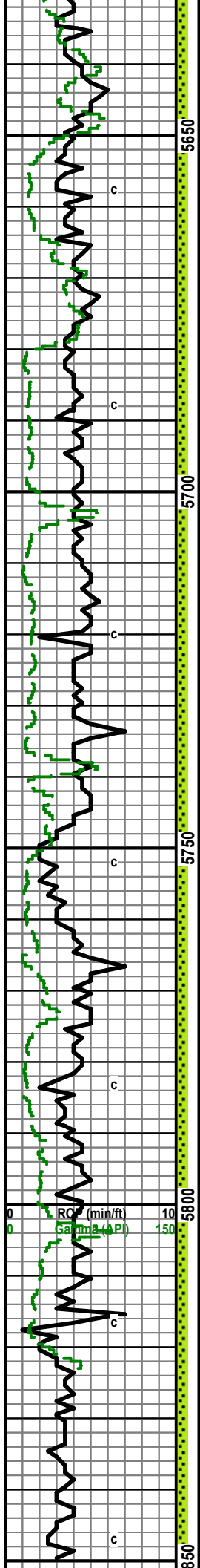
Sh: gry-drk gry, some SS: clear-opaque-gry, vf-fgm, glauc, sub fri, sub round, well sort no-vvrsfo, possible gas bubble no fluor, no odor, no-pr por

Sh: A.A. with some SS: A.A. LS: crm, mcrxln, chalky

Sh: A.A. with SS: clear-opaque-reddish brown, vf-fgm, sub round, sli glauc, some LS: crm, mcrxln, chalky



0 10 150
 POP (min/ft)
 gamma (API)



Sh: A.A. with SS: A.A.

Sh: gry-drk gry-lt gry, some reddish brwn, with SS: red-opaque, sli clear, vf-fgrn, limey, friable

c

Sh and SS: A.A., LS: crm, mcr-fxln, sandy, friable

LS: crm, mcr-fxln, sandy, friable

c

LS: crm, mcr-fxln,

5700

LS: crm, sli gry, mcr-fxln, sli friable, sli chalky

c

LS: crm sli tan, mcr-fxln, sli friable

LS: crm-tan, mcr-fxln, sli chalky

FLOW LINE PLUGGED

5750

c

Sh: gry-drk gry-lt gry

LS: crm, sli tan, f-mxln, sli chalky, few pieces chert

c

LS: crm, sli tan-gry, mcr-fxln, few mxln, sli chalky

LS: A.A.

5800

RO (min/ft) 10
Gamma (API) 150

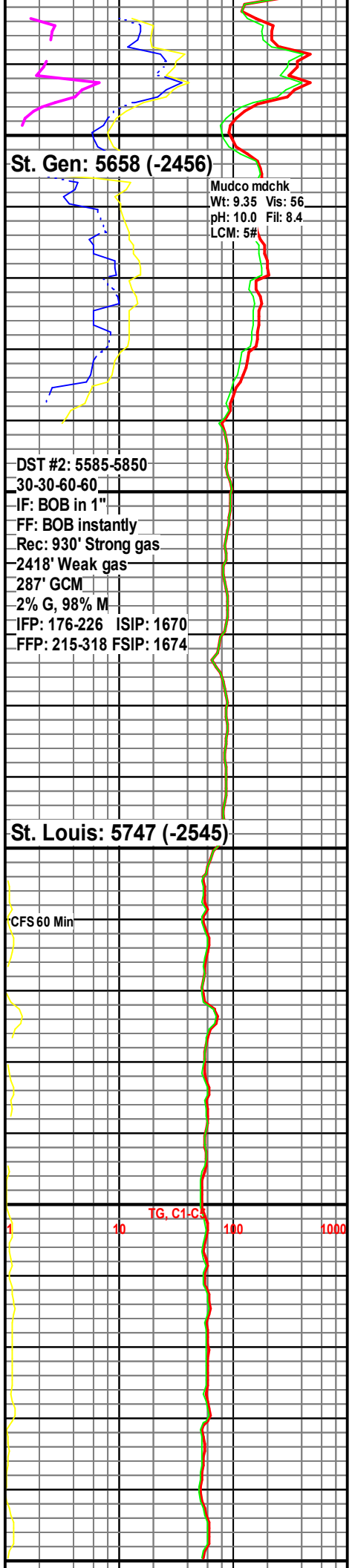
c

LS: A.A.

LS: crm-gry, sli tan, mcr-fxln, few mxln, sli chalky, sli friable

8850

RTD 5850



St. Gen: 5658 (-2456)

Mudco mdchk
Wt: 9.35 Vis: 56
pH: 10.0 Fil: 8.4
LCM: 5#

DST #2: 5585-5850

30-30-60-60

IF: BOB in 1"

FF: BOB instantly

Rec: 930' Strong gas

2418' Weak gas

287' GCM

2% G, 98% M

IFP: 176-226 ISIP: 1670

FFP: 215-318 FSIP: 1674

St. Louis: 5747 (-2545)

CFS 60 Min

TG, C1, C2

1 10 100 1000

