

Andrew White

Petroleum Geologist

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

Well Name: Chain Ranch "B" #2
Location: 1-31SW-12W
License Number: API#: 15-007-24138
Spud Date: 3/8/2014
Surface Coordinates: 330' FNL & 330' FWL

Region: Barber Co., KS
Drilling Completed: 03-14-14

Bottom Hole
Coordinates:
Ground Elevation (ft): 1620' K.B. Elevation (ft): 1630'
Logged Interval (ft): To: Total Depth (ft): 4350
Formation:
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: White Exploration, Inc.
Address: 1635 N. Waterfront Suite 100
Wichita, KS 67206

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc.
Address:

Remarks

Due to the sample shows of oil and gas in the Mississippi chert, it is recommended that casing be run and the interval be produced.

General Info

Drilling Contractor: Pickrell Rig 1

Logs: Pioneer
Compensated Density/Neutron, Dual Induction, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

Surveys: 313'-.75, 876'-.75, 1380'-1.75, 1887'-1, 2423'-.75, 3023'-.75,

Bit	MFG	Type	Depth Out	Footage	Hrs On
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Daily Status

03/07/2014: Move in Rig
 03/08/2014: Spud well, drilled to 313' set Casing
 03/09/2014: Drilling ahead at 815'
 03/10/2014: Drilling ahead at 1805'
 03/11/2014: Drilling ahead at 2620'
 03/12/2014: Drilling ahead at 3385'
 03/13/2014: Drilling ahead at 4107'
 03/14/2014: Short Trip to prepare for log
 03/15/2014: Running 5-12" Production Casing

White Exploration, Inc.				White Exploration, Inc.		George R. Jones	
Chain Ranch B #2				Chain Ranch B #1		Mott B #1 (OWWO)	
Sec 1-31S-12W				Sec 1-31S-12W		Sec 2-31S-12W	
330' FNL, 330' FWL				475' FNL, 1916' FWL		900' FNL, 450' FEL	
KB: 1630				KB: 1655		KB: 1617	
Sample	Log	Datum					
Heebner	3530	3528	-1898	+7		+14	
Brown Lime	3730	3730	-2100	+10		+23	
Stark	4080	4073	-2443	+16		+10	
Mississippian	4258	4258	-2628	+29		+17	
Miss Chert Por	4274	4274	-2644	+13		+1	
Kinderhook	4350	4354	-2724	+8			

ROCK TYPES

LITHOLOGY

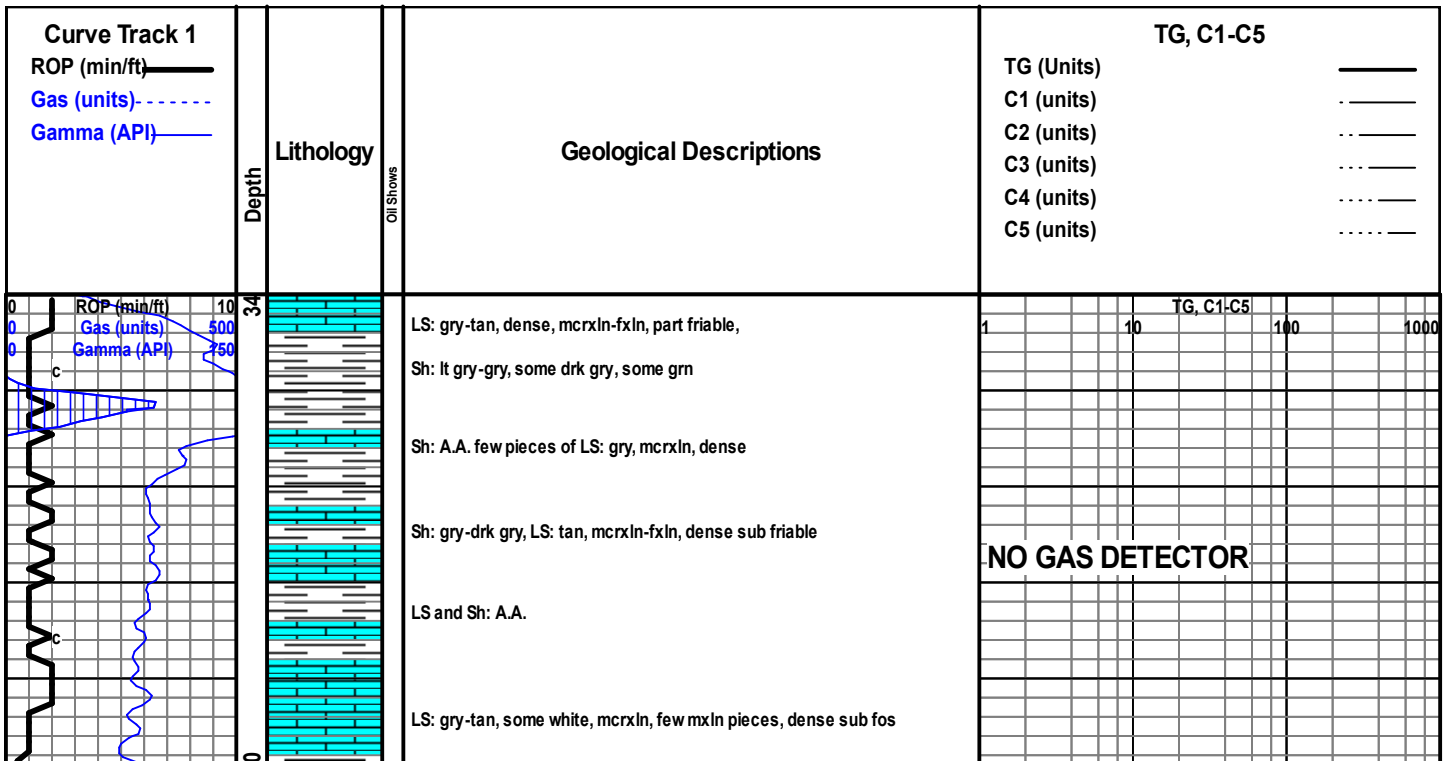
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Black shale
- Congl

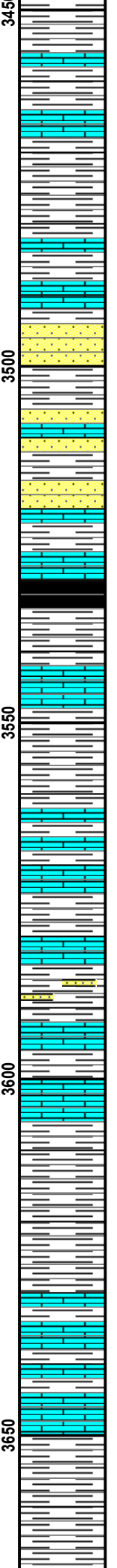
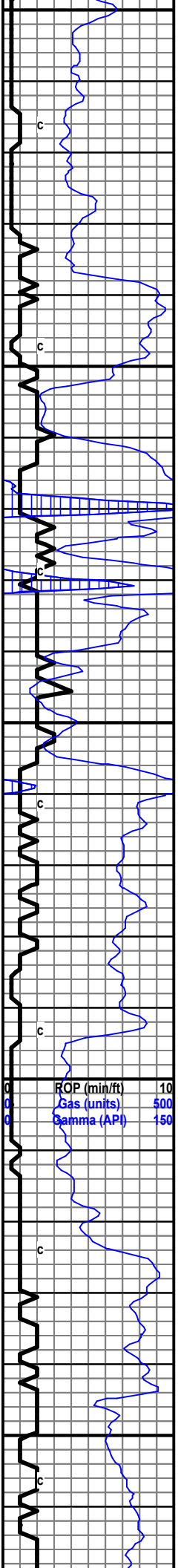
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale

- Shcol
 - Shgy
 - Sltst
 - Ss
 - Till
- STRINGER**
- Anhy

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

- Ssstrg
- OIL SHOW**
- Even
 - Spotted
 - Ques
 - Dead





Sh: gry-drk gry, some gm

Sh and LS: A.A.

Sh: gry-drk gry-grm, some LS: white-tan, sub chalk, friable, part dense,

Sh and LS: A.A.

Sh: gry-drk gry-blck, some LS: tan, fxln, dense

Sh: gry-drk gry, some LS: tan-crm, mcr-fxln, dense, sub fos, few SS clusters, clear-opaque, f gm, dense sub friable, sub ang, no vis por, no show

Sh, LS, and SS: A.A.

Sh: gry, LS: A.A., SS: A.A.

LS and, SS: A.A.

Sh: blck

Sh: blck-gry

LS: crm-tan-gry, mcrxln-fxln, dense, sub fos,

Sh: gry-lt gry, some gm

Sh and LS: A.A.

Sh and LS: A.A.

LS: tan-crm, mcr-fxln, fos, dense, SS: few clusters clear, sub ang, no vis por,

LS and SS: A.A. some Sh: gry-lt gry

Sh: lt gry-gry, few pieces of LS: white-crm-tan, friable, sub dense, fos

Sh: A.A.

Sh: gry-lt gry, LS: white-crm, mcrxln, sub fos, friable, some dense

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

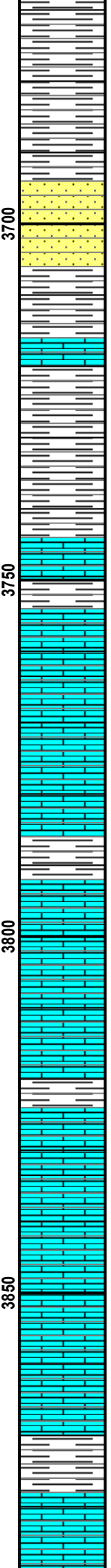
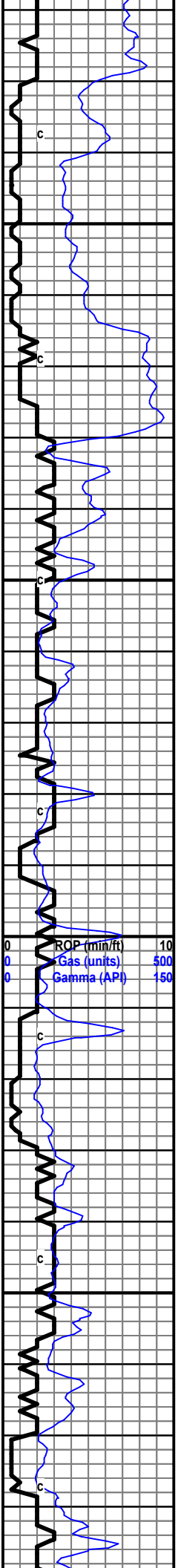
Sh: lt gry, SS: clear, sub ang, fgm, dense some friable,

Sh: gry-lt gry

Heebner: 3530 (-1900)

TG, C1-C5
 1 10 100 1000

Mudco mdchk
 Wt: 9.0 Vis: 47
 pH: 10.5 WL: 9.0
 LCM: 0



Sh: A.A.

Sh: A.A.

Sh: lt gry-gry some drk gry, SS. clear, fgm, sub friable, sub ang, NS

SS: A.A., Sh: lt gry-grn

Sh: gry-lt gry

Sh: A.A. with some LS: white, fxln, sub ool, friable,

Sh: gry-drk gry

Sh: A.A.

Sh: A.A. with some LS: crm-tan, dense

LS: crm-tan, mcrxln-fxln, sub fos, dense, some friable, some chalk

LS: crm, fxln, ool, sub friable

Sh: gry-drk gry

LS: crm-white, fxln, dense

LS: A.A.

Sh: gry-lt gry, LS: white-crm, mcr-fxln, friable, sub chalk,

LS: tan, fxln, ool, dense, sub chalk

LS: white-crm-tan, mcr-fxln, dense, sub chalk, some friable pieces

LS: A.A.

LS: crm-tan, fxln, friable, chalky, sub ool

LS: crm-tan-brwn, mcr-fxln, dense, sub friable, sub chalky, some fos

Sh: gry

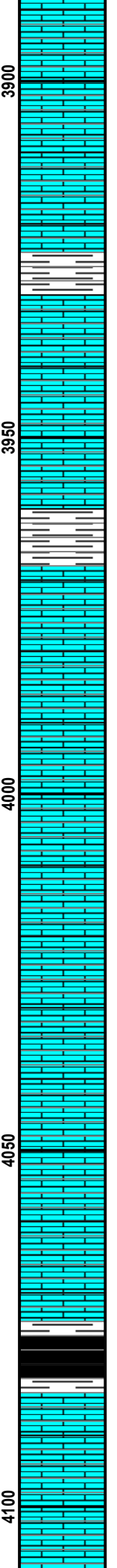
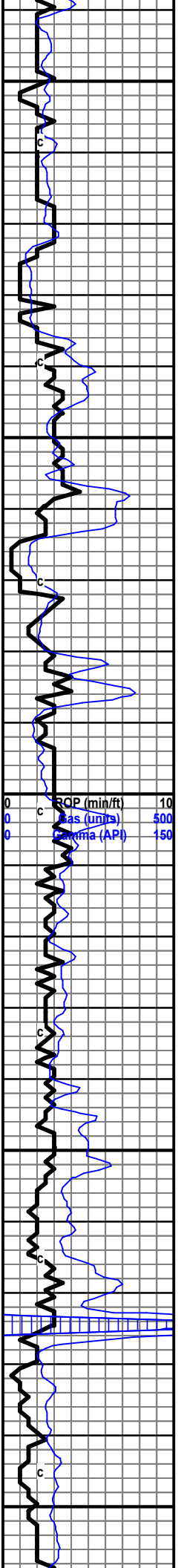
LS: A.A.

Poor Samples till 3860 sample

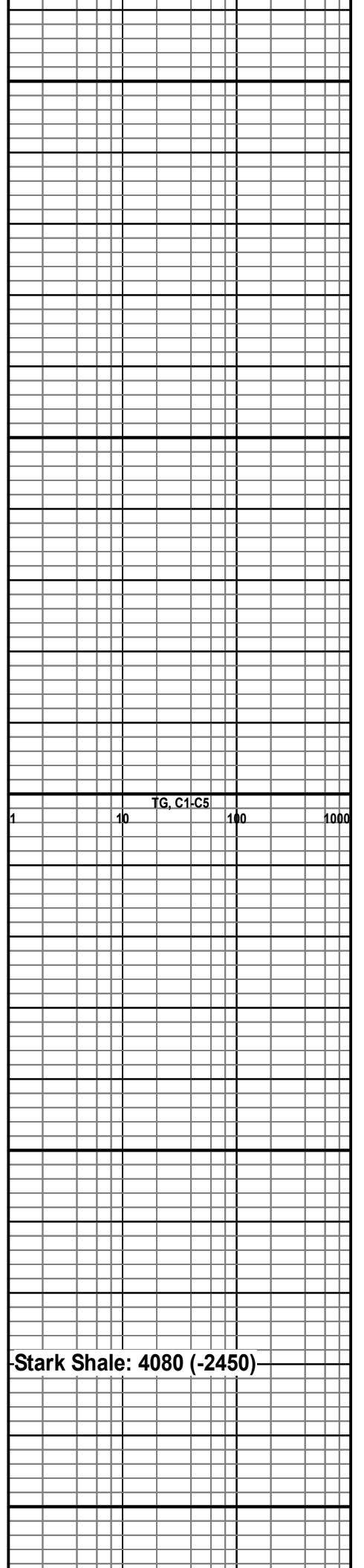
Brown LS: 3730 (-2100)

TG, C1-C5

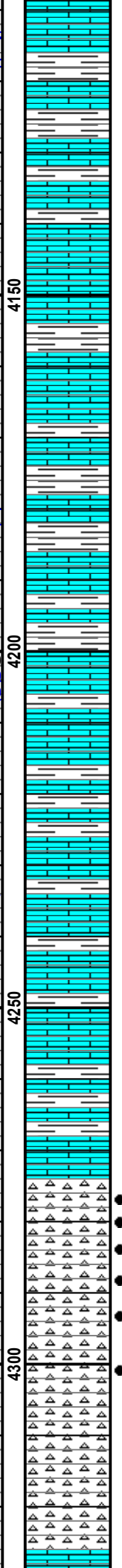
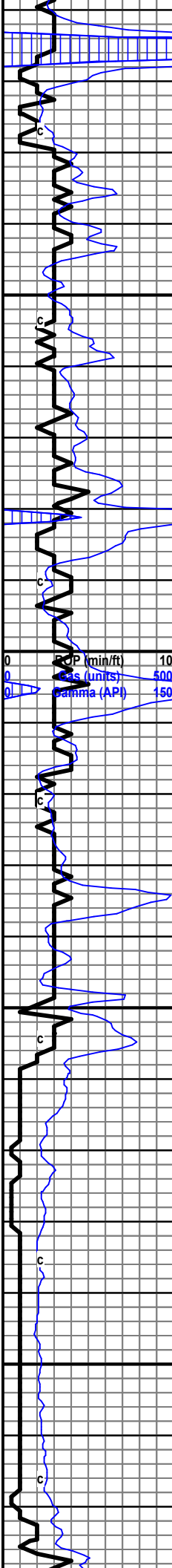
1 10 100 1000



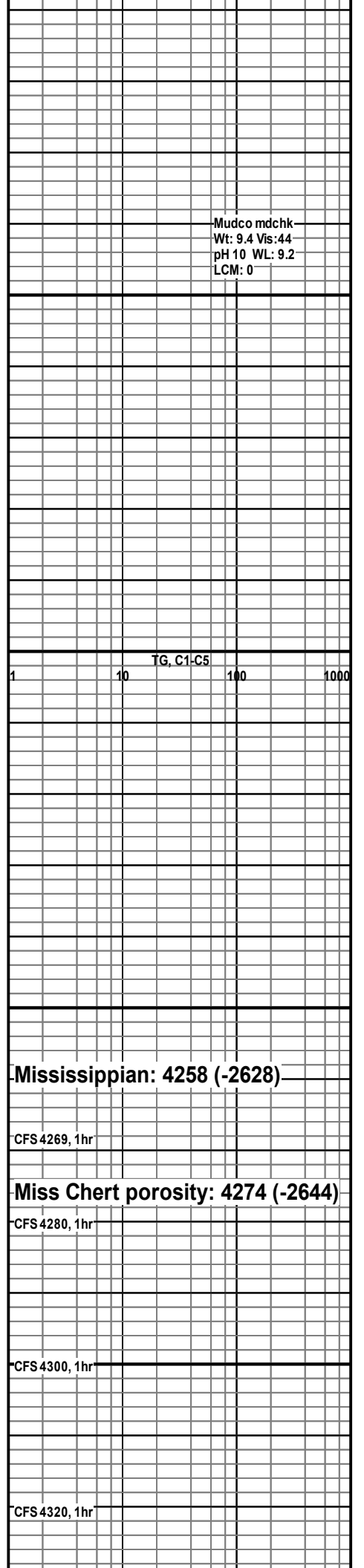
LS: crm-tan, mcrfxln, dense, fos,
 LS: A.A.
 LS: crm-tan, mcrxln, dense, sub chalk
 LS: A.A.
 Sh: gry
 LS: tan-crm, mcrxln, dense sub friable, part fos
 LS: A.A.
 LS: white-crm, mcrxln-fxln, dense, some chalk
 LS: A.A.
 Sh: gry-lt gry
 LS: tan-crm, fxln, ool, friable
 LS: tan-brn-white, mcrxln-fxln, ool, dense with some friable pieces, some vuggy por, chalky, NS
 LS: A.A.
 LS: crm-gry, mcrxln, dense
 LS: A.A.
 LS: grm-white-gry, mcrxln-fxln, dense, friable in part, some chalk
 LS: crm-tan, fxln, ool, vuggy por, dense with some friable, NS
 LS: crm-gry, mcrxln, dense, chalky
 LS: crm-tan-brn, mcrxln, dense, some ool and vuggy por, NS
 LS: A.A.
 LS: crm-tan, mcrxln, dense, sub fos,
 Sh: gry-drk gry-blck
 LS: crm-tan, fxln, friable, some vuggy por, some ool
 LS: crm-gry, mcrxln-fxln, dense, no vis por
 LS: A.A.



Stark Shale: 4080 (-2450)



LS: A.A.
 LS: A.A. some Sh: gry-grn
 LS: crm-gry, mcrxln, dense and Sh: gry-lt gry some blk
 LS and Sh: A.A.
 LS: crm, mcrxln, dense part friable, sub chalky
 LS: A.A. with some Sh: gry-grn
 LS: crm-tan-brwn, fxln, some ool, dense, some Sh: A.A.
 LS: A.A., Sh: gry-drkgry some gm
 LS: crm-tan, mcrxln-fxln, dense, and Sh: A.A.
 Sh and LS: A.A.
 LS: crm-brwn-tan, fxln, dense, ool, some vug por
 LS: crm-gry, mcrxln, dense, some chalk, Sh: gry-drk gry
 LS and Sh: A.A.
 LS: gry-crm, fxln, dense, sli ool, Sh: gry-grn some drk gry
 Sh: gry-drk gry some LS: A.A.
 LS: gry-crm, fxln, dense, with Sh: gry-grn, few pieces of chert: white-dense NS, no vis por, no stain
 Chert: white-tan, weathered, sli por, sli vug, good odor, good show free oil, tan-satur stain, good show gas, gold/yellow fluor
 Chert A.A.
 Chert: A.A. but more dense pieces
 Chert: white-tan some gry, dense no vis por, stained, good odor, show gas, gold/yellow fluor
 Chert: A.A.



Mudco mdchk
 Wt: 9.4 Vis: 44
 pH 10 WL: 9.2
 LCM: 0

Mississippian: 4258 (-2628)

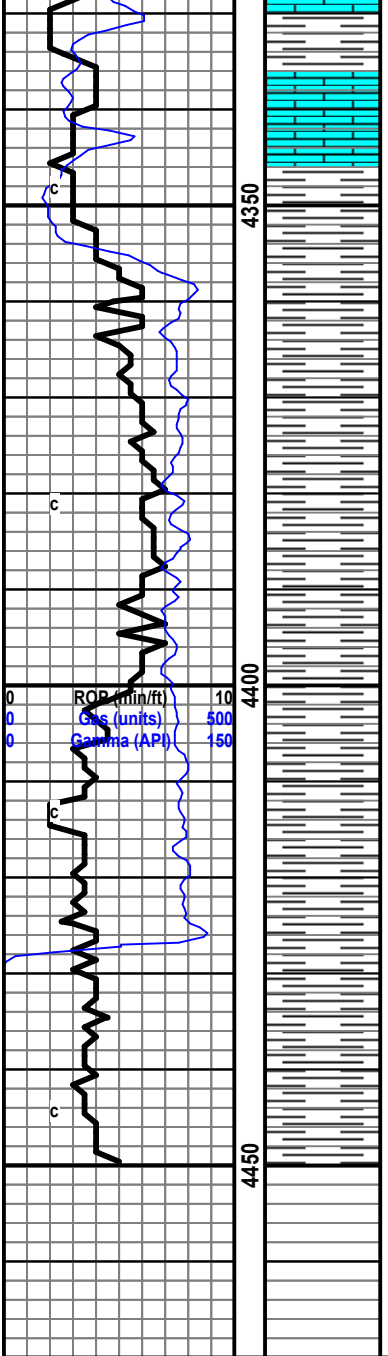
CFS 4269, 1hr

Miss Chert porosity: 4274 (-2644)

CFS 4280, 1hr

CFS 4300, 1hr

CFS 4320, 1hr



Sh: gry-lt gry-grn with some LS: tan, fxln, dense, no shows

LS: tan-crm, fxln, dense, no vis por, no stain

Sh: gry-lt gry, some gm

Sh: A.A.

Sh: A.A.

Sh: A.A.

Sh: A.A.

RTD: 4450

LTD: 4450

Kinderhook: 4350 (-2720)

TG, C1-C5
1 10 100 1000