

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1248247
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1248247

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ 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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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QUALITY WELL SERVICE, INC.

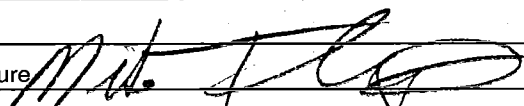
6280

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	12-11-14	Sec.	12	Twp.	35s	Range	12w	County	Barber	State	KS	On Location	4:00PM	Finish	7:45PM
Lease	STERN BERGER		Well No.		B-5		Location								
Contractor							Fossil #3								
Type Job							Surface								
Hole Size							1 7/8								
Csg.							13 3/8								
Tbg. Size							48"								
Tool							Depth								
Cement Left in Csg.							Shoe Joint								
Meas Line							Displace								
							28 3/4 BBLs Fresh								
							Cement Amount Ordered								
							300sx class A + 2% gel + 3%								
EQUIPMENT															
Pumptrk	8	No.	David B												
Bulktrk	7	No.	M. Ice B												
Bulktrk		No.													
Pickup		No.	David F												
JOB SERVICES & REMARKS															
Rat Hole							Hulls								
Mouse Hole							Salt								
Centralizers							Flowseal								
Baskets							Kol-Seal								
D/V or Port Collar							Mud CLR 48								
Pipe on Btm, Break Circ, Pump Spacer							CFL-117 or CD110 CAF 38								
Mix 300sx A: 243 cement, Start Disp.							Sand								
w/ Fresh H ₂ O, Wash up truck, See steady							Handling 317								
increase in PSI, Slow Rate, stop pump at							Mileage 20								
28 3/4 BBLs total, Shut in, Cement Did							FLOAT EQUIPMENT								
Circ.							Guide Shoe								
							Centralizer								
							Baskets								
							AFU Inserts								
							Float Shoe								
							Latch Down								
							LMV 20								
							Service Supervisor								
							Pumptrk Charge Surface								
							Mileage 20 x 2								
														Tax	
														Discount	
														Total Charge	
X Signature 															

27.79 28.75

ALLIED OIL & GAS SERVICES, LLC 063074

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

JAN 06 2015

SERVICE POINT:

Medhodge KS

DATE <u>12/17/14</u>	SEC. <u>12</u>	TWP. <u>35s</u>	RANGE <u>12w</u>	CALLED OUT <u>5:30 PM</u>	ON LOCATION <u>7:30 PM</u>	JOB START <u>1:30 AM</u>	JOB FINISH <u>2:45 AM</u>
LEASE <u>Steinberger</u> WELL # <u>B 5</u>				LOCATION <u>Kiowa jct, west tri, Southwind</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)							

12/17/14

12/18/14

CONTRACTOR Fossil #3
 TYPE OF JOB Production
 HOLE SIZE 7 3/8 T.D.
 CASING SIZE 5 1/2 DEPTH 5049
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1500 MINIMUM
 MEAS. LINE SHOE JOINT 39
 CEMENT LEFT IN CSG. 39
 PERFS.
 DISPLACEMENT 120 BBLs 2% KCL H₂O

OWNER Woolscy operating
 CEMENT
 AMOUNT ORDERED 90sx 60:40:4% Gel,
100sx Class H + 10% Gyp + 10% Salt + 6# Kalsol +
.8% FL-160 + 4# Floseal, 12 gal KCL

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thirnech
 # 886/545 HELPER Coy Price / Todd & Seba
 BULK TRUCK
 # 986/ DRIVER Antwan Henderson
 BULK TRUCK
 # DRIVER

COMMON <u>H 100 sx</u>	@ <u>27.24</u>	<u>2724.00</u>
POZMIX	@	
GBL	@	
CHLORIDE	@	
ASC	@	
<u>60:40:4% Gel 90 sx</u>	@ <u>18.43</u>	<u>1658.70</u>
<u>Gypseal 940#</u>	@ <u>.88</u>	<u>827.20</u>
<u>Salt #540</u>	@ <u>.68</u>	<u>367.20</u>
<u>Floesal 600#</u>	@ <u>.98</u>	<u>588.00</u>
<u>Floesal 25#</u>	@ <u>2.97</u>	<u>742.5</u>
<u>Clayco 12 Gals</u>	@ <u>34.40</u>	<u>412.80</u>
<u>FL-160 75#</u>	@ <u>18.90</u>	<u>1417.50</u>
HANDLING	@	

REMARKS:

MILEAGE
20% = 1613 93 TOTAL 8069.65

WELL FILE

Regulatory Correspondence
 Drlg Comp Workovers
 Tests / Meters Operations

SERVICE

DEPTH OF JOB <u>5053'</u>		
PUMP TRUCK CHARGE <u>3099 25</u>		
EXTRA FOOTAGE <u>LU 20</u>	@ <u>4.40</u>	<u>88.00</u>
MILEAGE <u>20</u>	@ <u>7.70</u>	<u>154.00</u>
MANIFOLD	@	<u>275.00</u>
<u>Handling 230.24</u>	@ <u>2.48</u>	<u>572.73</u>
<u>Mileage 196.29</u>	@ <u>2.75</u>	<u>539.75</u>
<u>20% = 945 74</u>		
		TOTAL <u>4728 73</u>

CHARGE TO: Woolscy operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>Turbolizers 10</u>	@ <u>95.00</u>	<u>950.00</u>
<u>Recip scratcher 12</u>	@ <u>89.00</u>	<u>1068.00</u>
<u>Recip Latchdam plug 1</u>	@	<u>660.00</u>
<u>Float shoe AFU 1</u>	@	<u>545.00</u>
		TOTAL <u>3223.00</u>

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 16,021 38
 DISCOUNT _____ IF PAID IN 30 DAYS
NET 13,461 20

PRINTED NAME Allen F Dick
 SIGNATURE Allen F Dick



Woolsey Operating Company, LLC

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

Well Name: STERNBERGER 'B' #5
Location: Section 12 - Township 35 South - Range 12 West
License Number: 15-007-24260-00-00 Region: Barber County, Kansas
Spud Date: December 11, 2014 Drilling Completed: December 16, 2014
Surface Coordinates: Approx. SW SE NE SW
1380' FSL and 2180' FWL

Bottom Hole
Coordinates:
Ground Elevation (ft): 1348' K.B. Elevation (ft): 1360'
Logged Interval (ft): 4200' To: 5065' Total Depth (ft): 5065'
Formation: Kansas City ----> Mississippian
Type of Drilling Fluid: Chemical Mud

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

OPERATOR

Company: Woolsey Operating Company, LLC
Address: 125 N. Market, Suite 1000
Wichita, KS 67202

GEOLOGIST

Name: Mr. Bill Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Spud at 1 pm on 12/11/14. Set 5 joints of new 13 3/8" X 48#/ft casing at 212' KB (tally 197') with 300 sx Class A, 2% gel, 3% cc. (By Allied). Plug down 7 pm on 12-11-14. Cement did circulate.

Production Casing: 5 1/2" X 16.5#/ft

Deviation Surveys: 1 at 212', 1/4 at 1102', 1/2 at 1610', 0 at 2118', 0 at 2625', 1/2 at 3069', 1/4 at 3607', 3/4 at 4115', 3/4 at 4655', 3/4 at 5065'.

Pipe Strap @ No strap was taken.

Fossil Drilling Co. Rig 3 Bit Record:

- 1) 17 1/2" Smith Tool RR in at 0' out at 212'. 2.5 hours
- 2) 7 7/8" Varel V516BK in at 212' out at 2311'. 21.5 hours
- 3) 7 7/8" Halliburton FX 55M in at 2311' out at 5065', 56.5 hours. Total PDC penetration 62'/hour.

Gas Detector: Woolsey Operating Co. Gas Shack #2

Mud System: Chemical Mud, Mud-Co, Brad Bortz, Engineer

DSTs: No tests were ran.

Company Man: Mike Tharp, Woolsey Operating Company

E-Logs: Nabors Completion and Production Services, Dual Induction Laterolog w/SP, CNL/FDC w/PE, Gamma Ray and Caliper. Jeff Luebbers, Engineer.

DSTs

No formation tests were ran.

CREWS

Jim Wenrich, Tool Pusher (Ran off)

Craig Eubank (New Pusher)

Daniel Orrentia, Daylights

Ron Burns, Evening

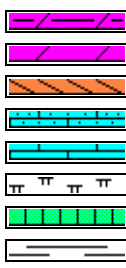
Jessie Reynolds, Morning

Chris Slatts, Relief

ROCK TYPES



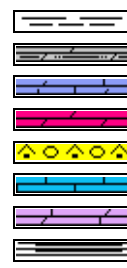
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Sdy dolo



Shy dolo
Dol
Gyp
Sdy lmst
Lmst
Mrlst
Salt
Shale



Slst
Ss
Black sh
Gry sh
Shale
Shysltst
Sltysh
Ss 2



Shale 3
Silty dol
Dol lmst
Dol 2
Granite wash
Lmst
Calc dol
Shale 3

ACCESSORIES

MINERAL

- Anhy
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt

- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

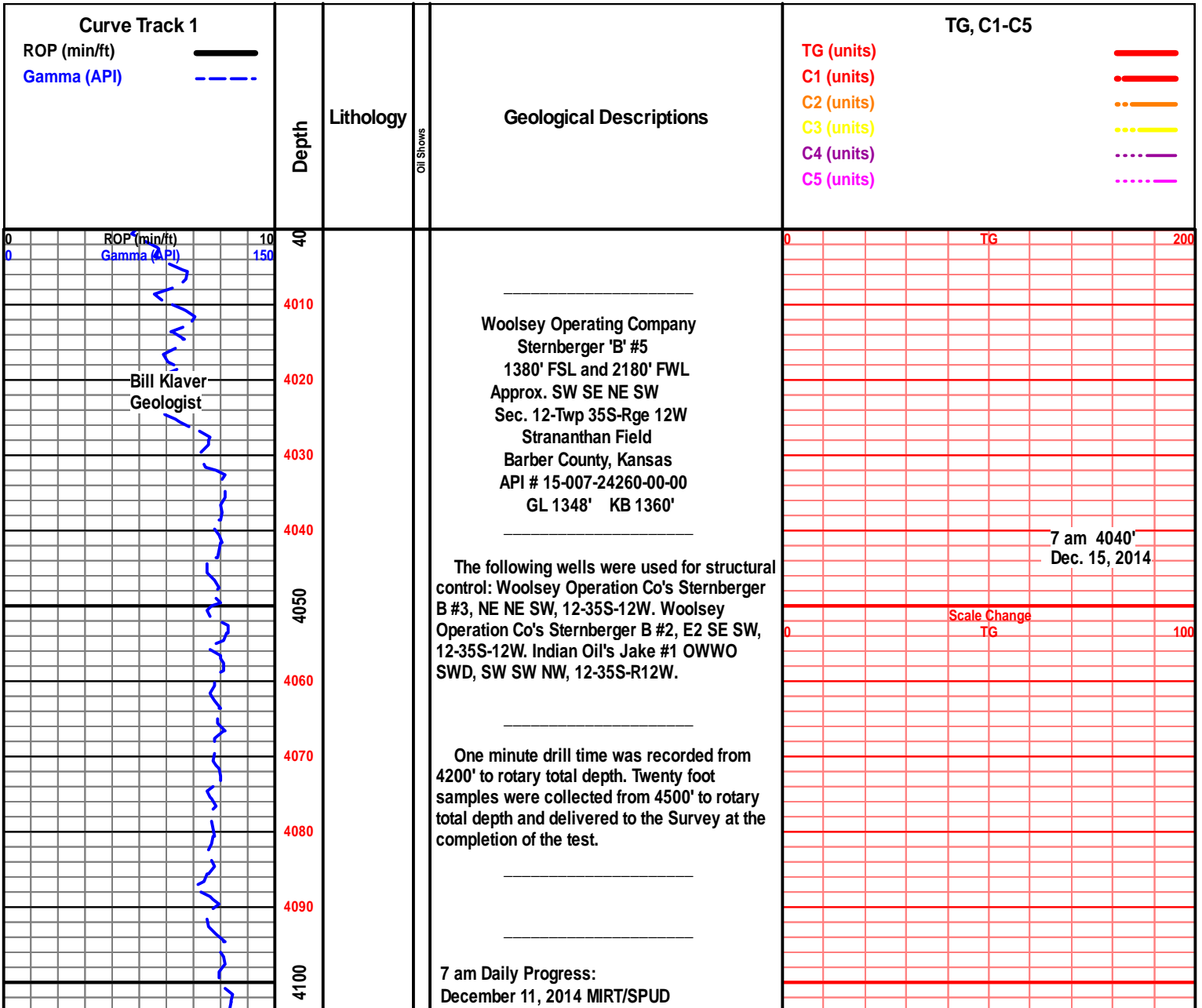
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest



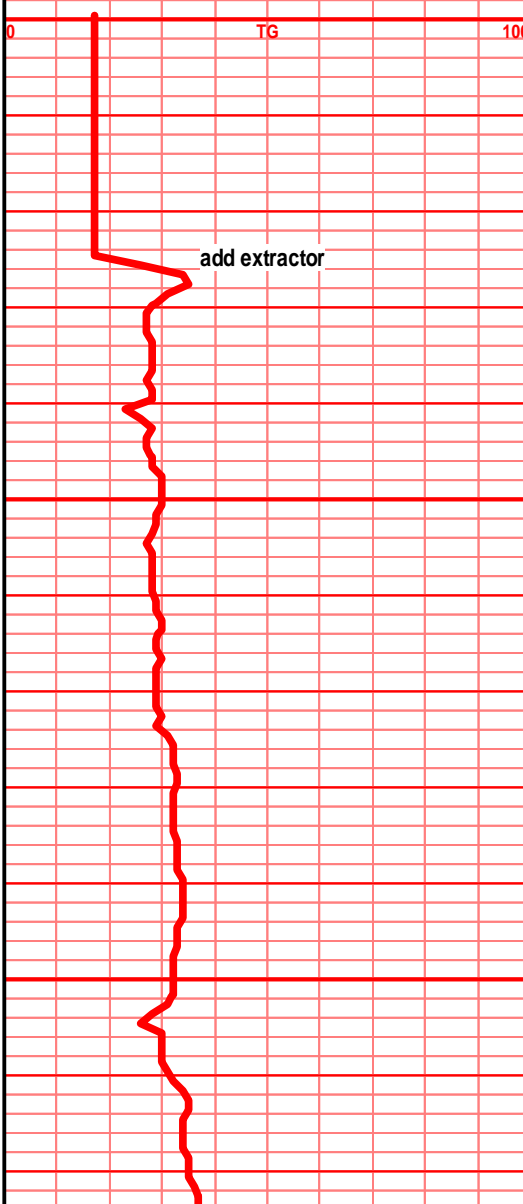
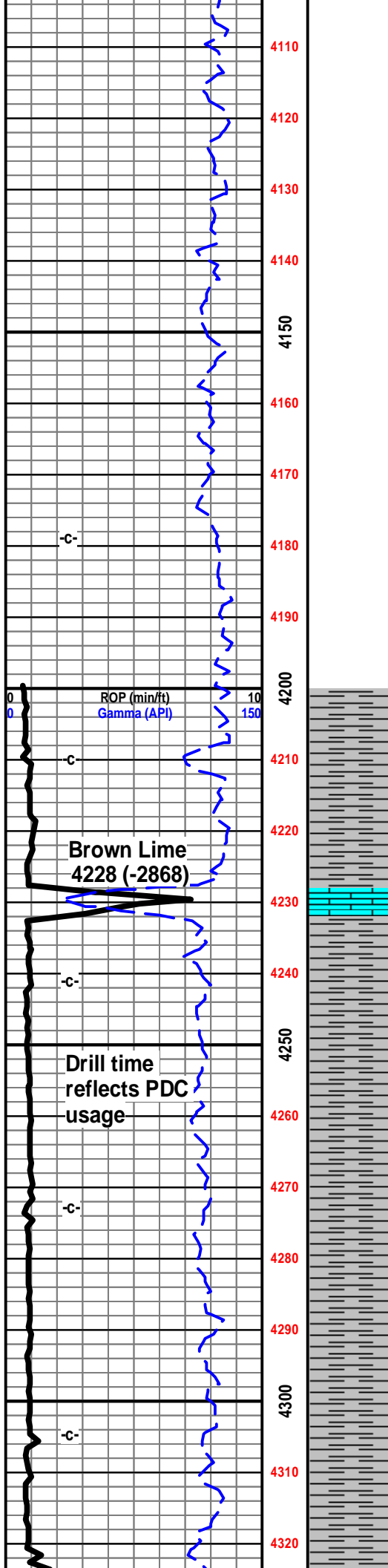
December 12, 2014 Drilling at 345'
 December 13, 2014 Drilling at 2244'
 December 14, 2014 Drilling at 2932'
 December 15, 2014 Drilling at 4020'
 December 16, 2014 Drilling at 4725'
 December 17, 2014 TOOH for logs

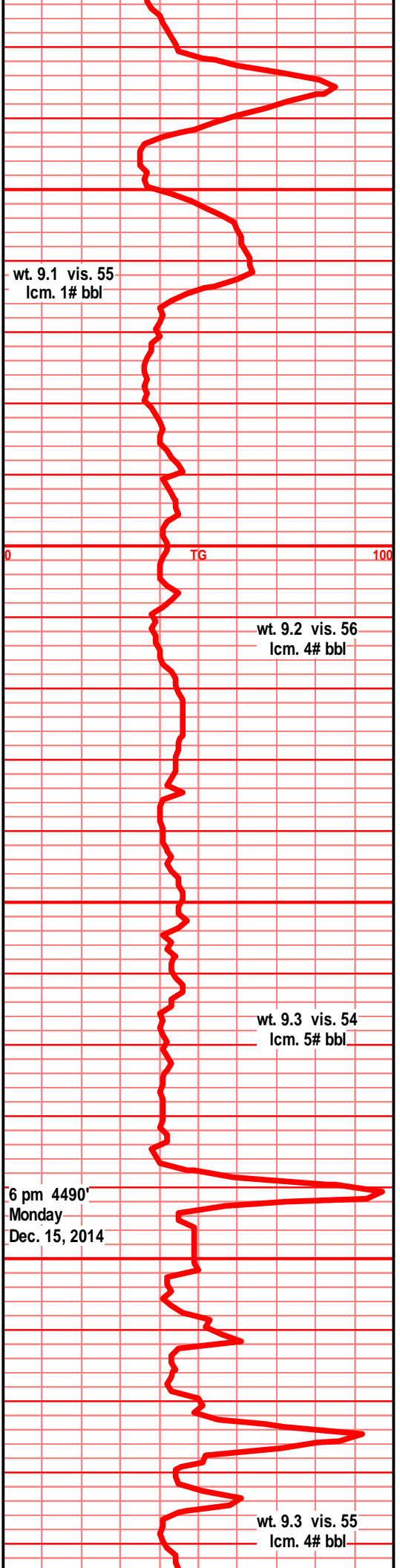
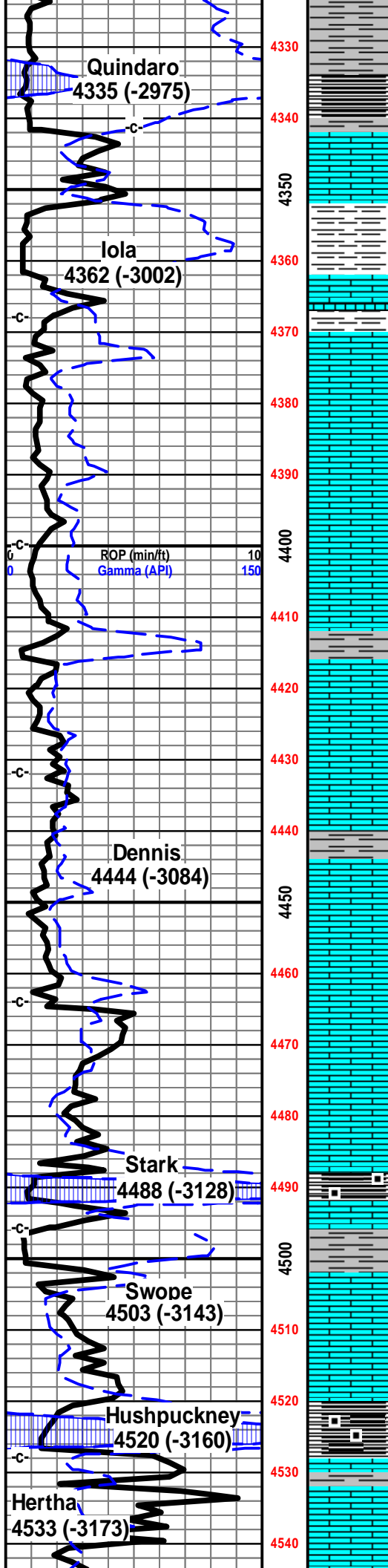
Mud-Co. 4135'
 wt. 9.0 vis. 57
 wl. 8.8 chl. 3,000
 lcm. 1# bbl

Geo on location
 4151' 10 am
 Dec. 15, 2014

E- Log Tops:

- Herington 1860 (-500)
- Onaga 2722 (-1362)
- Waubunsee 2780 (-1420)
- Stotler 2911 (-1551)
- Topeka 3218 (-1858)
- LeCompton 3577 (-2217)
- Kanwaka 3606 (-2246)
- Heebner 3790 (-2430)
- Toronto 3800 (-2440)
- Douglas Group 3827 (-2467)
- Douglas Shale 3919 (-2559)
- Haskell 4228 (-2868)
- Quindaro 4330 (-2970)
- Iola 4362 (-3002)
- Drum 4416 (-3056)
- Dennis 4449 (-3089)
- Stark 4488 (-3128)
- Swope 4504 (-3144)
- Hushpuckney 4520 (-3160)
- Hertha 4532 (-3172)
- B/Kansas City 4569 (-3209)
- Pawnee 4676 (-3316)
- Cherokee Group 4723 (-3363)
- Mississippi Unc. 4782 (-3422)
- C3 4782 (-3422)
- C2A 4790 (-3430)
- C2 4867 (-3507)
- Osage 5020 (-3660)
- Northview Shale 5023 (-3663)
- Compton 5028 (-3668)
- LTD 5065 (-3705)





1st crm tan lt gry f xln gran sub chlky, foss frags, foss ool, calc xln fill

shl gry drk gry blk, blk ang pcs, gassy, wxy grsy text, 1st aa in this sample

shl gry med drk gry, 1st tan gry crm f xln gran soft gran sub chlky, foss frags, calc xln fill

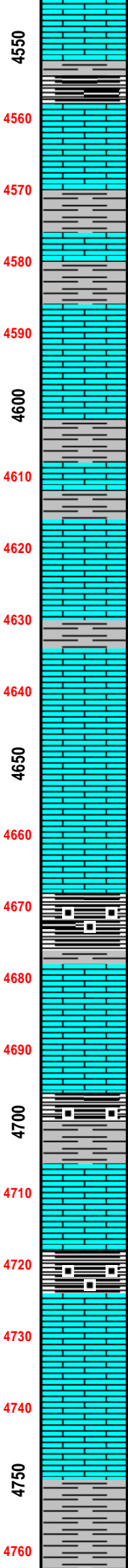
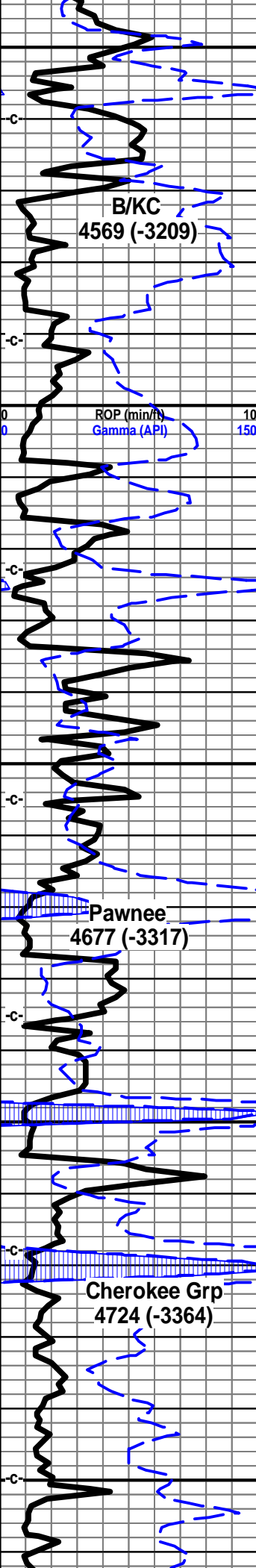
flood blk carb shl, 1st tan crm lt gry f xln blk ang dns sub chlky arg silty

shl gry drk gry blk, blk carb, wxy grsy text, abun gas bubs,

1st crm tan gry f vf xln gran soft sli chlky, sli arg, silty, calc xln fill micro foss frags, shls gry med gry silty gritty, calc

1st tan crm lt gry f xln gran blk ang sub

6 pm 4490'
Monday
Dec. 15, 2014



chlky, foss frags, soft gran

shl, drk gry blk, blk carb text, tr gas bubs, 1st tan lt gry gry/brn f xln gran soft arg silty

1st tan gry brn f vf xln gran blk ang dns hrd, micro foss frags, chlky, spls poor mush, no particular change since spls began

shl gry dkr med gry silty gritty calc in prt, 1st tan gry brn f xln blk ang dns hrd

1st crm buff lt gry f vf xln dns hrd blk ang sli chlky, micro foss frags, calc xln fill

1st crm buff tan lt gry, f vf xln sub chlky, micro foss frags, calc xln fill,

shl gry med gry brn, gry green silty calc, 1st drk gry brn f vf xln dns hrd blk ang calc

1st crm buff f xln blk ang dns hrd, foss frags, sli chlky gran. shls gry med gry gritty silty

shl gry med gry brn silty gritty calc, 1st tan buff crm f vf xln dns hrd blk sub chlky foss frags, calc xln fill

1st crm buff tan f vf xln blk sub chlky in prt, micro foss frags, micro calc, spls remain fnly ground same-o

1st crm buff tan f xln blk ang tr sub chlky, foss frags, micro foss frags, calc xln fill

1st buff tan f vf xln sli chlky, micro foss frags, micro ool, calc xln fill

sh drk gry blk, blk carb, wxy grsy text, blk ang pcs, abun gas bubs

1st buff tan lt gry f vf xln blk ang dns hrd, tr sub chlky, micro foss frags, calc xln fill sample no change!!

1st crm buff lt gry f xln blk ang dns hrd calc fill, sli chlky micro foss frags

shl gry med drk gry, blk carb text, wxy grsy pcs,

1st crm buff lt gry f vf xln blk ang dns sub chlky foss frags, micro ool/frags, calc fill

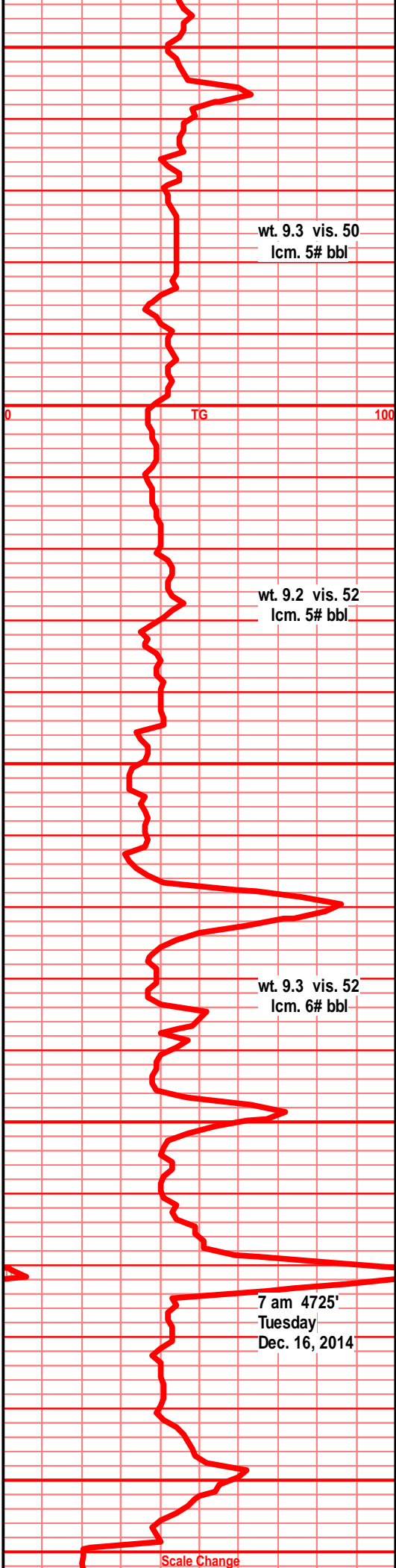
shl gry, drk gry blk, blk carb text, wxy grs pcs, blk ang pcs. 1st crm drk tan gry f vf xln dns hrd blk ang foss sli chlky

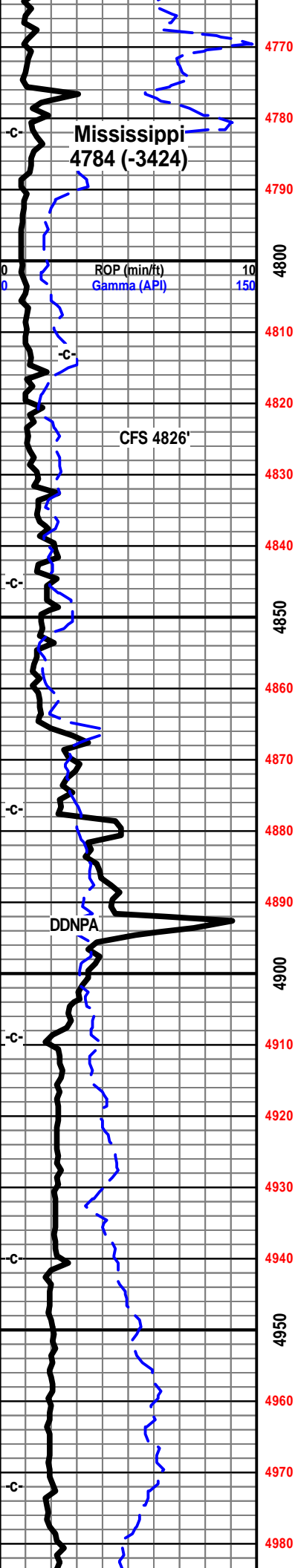
1st crm lt gry tan f vf xln dns hrd blk sli chlky, calc xln fill, micro foss frags

1st crm tan lt gry f vf xln hrd dns blk ang pcs, sub chlky in prt, arg in prt, micro foss frags, calc xln fill

shl gry, lt gry green, tr blue green, silty gritty, sndy, tr spintery shards.

shl gry drk gry blk, gry green, tr blue green





4770 silty gritty, soft, snd grn inclu, ratty, tr yellw/maroon vari color

4780 shl gry drk gry, gry/green, blue/green, silty gritty, soft, ratty, snd grn inclu, tr yllw/maroon vari color

4790 chrt wht, bone wht, tr blue gry, shrp frsh sub opaq, blk ang, tr blk edge stain, pp tr frac por, chrt wht bone wht w/blue gry tint frsh sub opaq w/off wht tan brn mott weath text edge, trip text, sli gran/chlky, gd vis pp moldic por, gd odor, stain, SFO, "spitting" gas

4800 chrt, frsh chrt aa, wht, bone wht, tr lt blue gry tint with weath sli trip text edges, drk stain, SFO, gas, chrt off wht tan brn tr blk mott, weath gran sli spongy trip text, soft, gd pp moldic por, fair/gd odor, SFO, gas bubs, tr hvly blk stain

4810 chrt wht off wht, tr lt gry, shrp frsh, blk, sub opaq, weath gran sli spongy trip text edges, pp moldic por, brn stain, SFO, gas bubs, tr blk hvly stain, chrt wht tan brn/blk mott weath gran sli spongy trip text, gd pp moldic por, stain, SFO, fair odor, tr blk hvly stain

4820 chrtly dolo/dolo chrt off wht lt gry dolo, f vf xln gran, sub suc, tr sndy, snd grn inclu, tr glau, inter xln por, sli sub chlky in prt, w/wht off wht lt gry shrp frsh chrt inclu w/weath sli trip text edges, pp moldic por, stain, sli odor, stain SSFO with inter xln dolo por, stain SFO along chrt/dolo contact

4830 dolo crm lt gry tan f vf xln dns hrd gran, sub suc, arg tr silty, chrt wht shrp frsh opaq

4840 dolo, chrtly dolo, crm tan lt gry f vf xln blk dns, sli silic, sub suc, silty, gran soft text, chrt wht shrp frsh opaq

4850 dolo crm tan lt gry, gry f vf xln gran blk ang dns hrd, silty, silic text, chrt wht shrp frsh opaq very poor samples, much uphole chrt

4860 dolo crm tan lt gry, gry, drker gry, f vf xln gran silic, bec silty, arg, gran soft text, chrt wht shrp frsh sub opaq

4870 dolo, silty chrtly dolo, f vf xln dull tan gry silty gritty, sli silic, chrt dull tan gry shrp frsh (samples PDC poor!)

4880 dolo, silty dolo, med gry vf xln dns hrd ang gritty, silic,

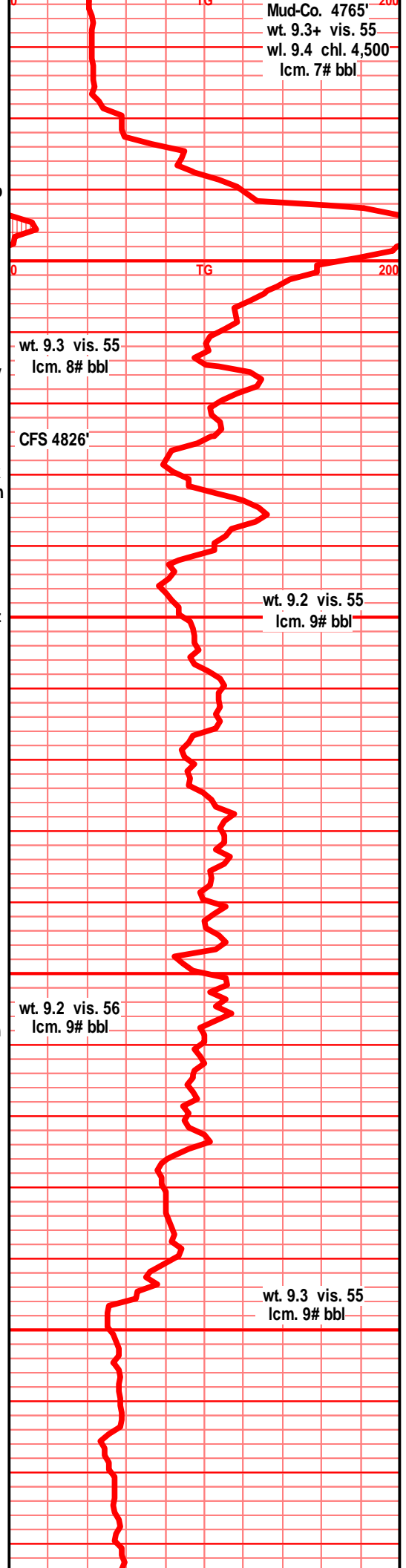
4890 dolo, silty dolo, f vf xln gran silty sli silic, gran, gritty

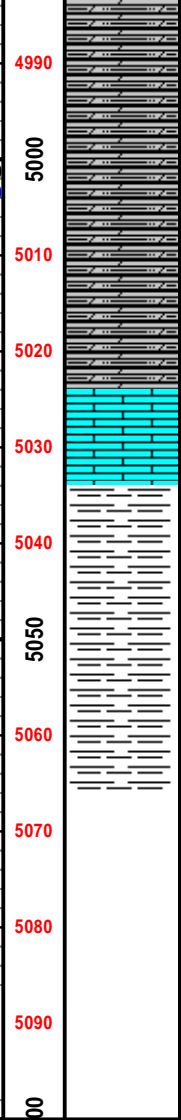
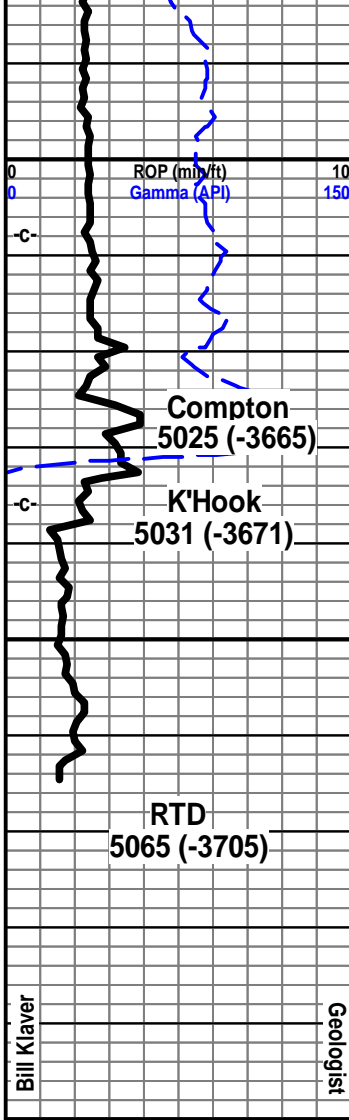
4900 dolo, silty dolo, vf xln gran gritty, shly, sli silic,

4910 API # 15-007-24260-00-00
dolo silty dolo, vf xln gran gritty, sli silic, shls gry dns dolo silty

4920 dolo silty dolo, vf xln dns gritty gran, sli silic, shls aa

4930 dolo silty dolo, vf xln gran sli silic, shls drk





gry silty dolo arg

dolo, silty dolo, vf xln gran silty, arg, silic text, blk ang hrd pcs

dolo silty dolo, vf xln gran gritty silty, sli silic text, blk ang dns

dolo silty dolo, shly dolo, vf xln gran gritty sli silic text, hrd dns pcs

aa, no change

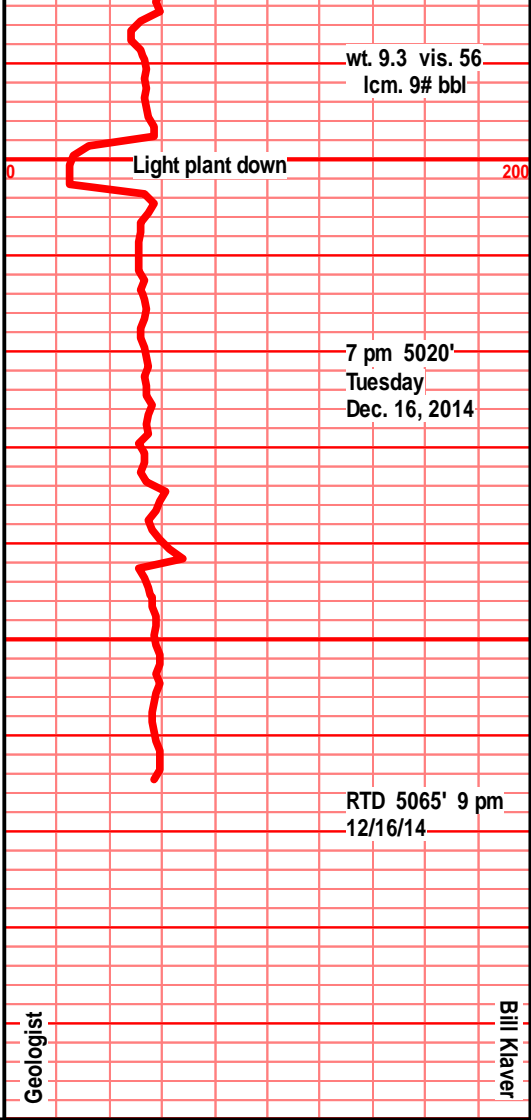
1st off wht dull tan, crm, f sli med xln, blk ang dns, hrd foss frags, tr crs calc xln fill

shl gry drk gry blk, silty fnly gritty

shl gry drk gry blk, blk/brn tint, silty, fnly gritty, bedded, splintery,

Woolsey Operating Company
Sternberger 'B' #5
1380' FSL and 2180' FWL
Approx. SW SE NE SW
Sec. 12 - Twp 35S - Rge 12W
Stranathan Field
Barber County, Kansas

GL 1348' KB 1360'



Bill Klaver

Geologist

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