



KANSAS CORPORATION COMMISSION 1066966
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

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



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

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
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	WECKWORTH 5
Doc ID	1066966

Tops

Name	Top	Datum
CHASE	1953	-528
LECOMPTON	3640	-2215
HEEBNER	3867	-2442
DOUGLAS	3927	-2502
SWOPE	4577	-3152
MISSISSIPPIAN	4837	-3412
VIOLA	5291	-3866
SIMPSON	5400	-3975

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	WECKWORTH 5
Doc ID	1066966

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	14.75	10.75	32.75	225	CLASS A	240	2% gel, 3% cc
INTERMEDIATE	9.75	8.625	23	909	CLASS A	100	2% gel, 3% cc
PRODUCTION	7.875	5.5	15.5	5331	60/40 POZMIX	50	4% gel, 1/4# Celoflake
PRODUCTION	7.875	5.5	15.5	5331	CLASS H	150	10% salt, 10% Gypseal, 6# Kolseal, 1/4# Celoflake, .8% fluid loss

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

November 07, 2011

DEAN PATTISSON
Woolsey Operating Company, LLC
125 N MARKET STE 1000
WICHITA, KS 67202-1729

Re: ACO1
API 15-007-23729-00-00
WECKWORTH 5
SW/4 Sec.09-35S-12W
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
DEAN PATTISSON

ALLIED CEMENTING CO., LLC. 042119

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge KS

DATE <i>07-14-11</i>	SEC. <i>09</i>	TWP. <i>35s</i>	RANGE <i>12w</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>8:15 PM</i>
LEASE <i>Week Worth</i>		WELL # <i>5</i>		LOCATION		COUNTY <i>Barber</i>	STATE <i>KS</i>
OLD OR NEW (Circle one)							

CONTRACTOR <i>Duke #10</i>	OWNER <i>Woolsey Oper.</i>
TYPE OF JOB <i>Surface</i>	
HOLE SIZE <i>14 3/4</i>	T.D. <i>225</i>
CASING SIZE <i>10 3/4</i>	DEPTH <i>211 + 13 1/8"</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <i>300</i>	MINIMUM <i>—</i>
MEAS. LINE	SHOE JOINT <i>N/A</i>
CEMENT LEFT IN CSG. <i>20'</i>	
PERFS.	
DISPLACEMENT <i>20 Bbls Fresh H₂O</i>	

CEMENT	AMOUNT ORDERED <i>240 sk class A + 3% cc + 2% gel</i>
COMMON <i>A</i>	<i>240 sk @ 16.25 3900.⁰⁰</i>
POZMIX	@
GEL	<i>5 sk @ 21.25 106.25</i>
CHLORIDE	<i>9 sk @ 58.20 523.80</i>
ASC	@

WELL FILE

Regulatory Correspondence	@	
Drig / Comp	@	
Tests / Meters	@	
Workovers	@	
Operations	@	
HANDLING <i>254</i>	@ <i>2.25</i>	<i>571.50</i>
MILEAGE <i>254 / .11 / 20</i>		<i>558.80</i>
		TOTAL <i>5660.35</i>

REMARKS:

Pipe on Bttm, Break loc. w/ Mix 240 sk class A 342 cement, Start Disp. w/ Fresh H₂O, See increase in PSI, slow rate, stop pump, Shut in, Cement Did Circ.

SERVICE

DEPTH OF JOB	<i>225</i>	
PUMP TRUCK CHARGE	<i>1125.00</i>	
EXTRA FOOTAGE	@	
MILEAGE <i>40</i>	@ <i>7.00 280.00</i>	
MANIFOLD <i>N/A</i>	@ <i>N/C</i>	
<i>Light vehicle 40</i>	@ <i>4.00 160.00</i>	
		TOTAL <i>1565.⁰⁰</i>

CHARGE TO: *Woolsey Oper.*
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<i>None</i>	@	
	@	
	@	
	@	
	@	

TOTAL _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer 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	<i>7225.35</i>
DISCOUNT <i>20%</i>	IF PAID IN 30 DAYS
<i>NET 5780.28</i>	

PRINTED NAME *MIKE THARO*
SIGNATURE *[Signature]*

ALLIED CEMENTING CO., LLC. 040747

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Melvin Meloy

DATE <u>7-16-11</u>	SEC. <u>9</u>	TWP. <u>35S</u>	RANGE <u>12W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 am</u>	JOB FINISH <u>7:30 am</u>
LEASE <u>Woodworth</u>		WELL # <u>5</u>		LOCATION <u>Hordner, KS, 1/4 E, S1/2</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke #10

TYPE OF JOB Surface

HOLE SIZE 9 3/4 T.D. 915'

CASING SIZE 8 7/8 DEPTH 909'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 7000 psi MINIMUM

MEAS. LINE SHOE JOINT 44'

CEMENT LEFT IN CSG. 44'

PERFS.

DISPLACEMENT 55 bbls H₂O

OWNER Woodsey Operating

CEMENT

AMOUNT ORDERED 100x A + 3% cc + 2% gel

EQUIPMENT

PUMP TRUCK CEMENTER Matt Thinesch

471/302 HELPER Darrin Franklin

BULK TRUCK

421/252 DRIVER Jason Thinesch

BULK TRUCK

DRIVER

WELL FILE

Regulatory Correspondence
Orig. Comp Workovers
Tests / Meters Operations

COMMON	<u>100</u>	@	<u>16.25</u>	<u>1625.-</u>
POZMIX		@		
GEL	<u>2</u>	@	<u>21.25</u>	<u>42.50</u>
CHLORIDE	<u>4</u>	@	<u>58.20</u>	<u>232.80</u>
ASC		@		
HANDLING	<u>106</u>	@	<u>2.25</u>	<u>238.50</u>
MILEAGE	<u>106/20/.11</u>			<u>232.20</u>
TOTAL				<u>2372.-</u>

REMARKS:

p.k. are with R13 pump ball through
pump 3 bbls H₂O ahead mix 100 sk cement
shut down Release plug drop 55 bbls H₂O
shut in plug held. bump plug 500 psi
1000 psi

SERVICE

DEPTH OF JOB	<u>909'</u>			
PUMP TRUCK CHARGE				<u>1250.-</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>40</u>	@	<u>7.00</u>	<u>280.-</u>
MANIFOLD		@		
<u>light vehicle to</u>	<u>40</u>	@	<u>4.00</u>	<u>160.-</u>
TOTAL				<u>1690.-</u>

CHARGE TO: Woodsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

8 5/8 PLUG & FLOAT EQUIPMENT

1- AFV insert	@	<u>382.-</u>	<u>382.-</u>	
1- Rubber plug	@	<u>112.-</u>	<u>112.-</u>	
TOTAL				<u>494.-</u>

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PRINTED NAME Scott Edwards

SIGNATURE Scott Edwards

SALES TAX (If Any) _____

TOTAL CHARGES 4556.-

DISCOUNT 20% IF PAID IN 30 DAYS

Net \$ 3644.80

ALLIED CEMENTING CO., LLC. 040237

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge Ks

DATE <u>7-27-2011</u>	SEC. <u>9</u>	TWP. <u>35S</u>	RANGE <u>12W</u>	CALLED OUT <u>9:30AM</u>	ON LOCATION <u>12:00PM</u>	JOB START <u>6:30pm</u>	JOB FINISH <u>7:30pm</u>
WEEK WORK LEASE	WELL # <u>5</u>	LOCATION <u>Hardner, Ks 1/4 east</u>		COUNTY <u>Berber</u>	STATE <u>Ks</u>		
OLD OR <u>NEW</u> (Circle one)		<u>S/indo</u>					

CONTRACTOR Duke #10
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5537'
 CASING SIZE 5 1/2 DEPTH 5335
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX Regulatory _____ MINIMUM _____
 MEAS. LINE Drig Comp _____ SHOE JOINT 42'
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 125 bbls of 2% KCL water

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 125 x 60' 40' 4% G01
150s x Class H + 10% Gyp + 10% SS1 +
6# Kases + .8% FL160 + 1/2# Floss + 14 ss/s KCL

EQUIPMENT
 PUMP TRUCK CEMENTER Derin F.
 # 471-302 HELPER Ron G, matt T
 BULK TRUCK
 # 421-252 DRIVER matt T, Justin E.
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>75 class A</u>	@	<u>16.25</u>	<u>1218.75</u>	
POZMIX	<u>60</u>	@	<u>8.50</u>	<u>510.-</u>	
GEL	<u>5</u>	@	<u>21.25</u>	<u>106.25</u>	
CHLORIDE	_____	@	_____	_____	
ASC	_____	@	_____	_____	
	<u>Class H</u>	<u>150</u>	@	<u>19.25</u>	<u>2887.50</u>
	<u>gyp scal</u>	<u>14</u>	@	<u>34.20</u>	<u>478.80</u>
	<u>salt</u>	<u>17</u>	@	<u>23.95</u>	<u>407.15</u>
	<u>Wet scal</u>	<u>900#</u>	@	<u>.89</u>	<u>801.00</u>
	<u>FL-160</u>	<u>113#</u>	@	<u>17.20</u>	<u>1943.60</u>
	<u>Flossal</u>	<u>37#</u>	@	<u>2.70</u>	<u>99.90</u>
	<u>Clapra</u>	<u>14 gal.</u>	@	<u>31.25</u>	<u>437.50</u>
	_____	_____	@	_____	_____
HANDLING	<u>343</u>	@	<u>2.25</u>	<u>771.75</u>	
MILEAGE	<u>343/20/11</u>			<u>754.60</u>	
				TOTAL	<u>10416.80</u>

REMARKS:

Pipe on bottom & break circulation, mix 25s for rat hole, mix 50s of sequence cement, mix 150s of full cement, shut down, wash pump & lines, Release plug, start displacement, lift pressure 92 90 bbls, slow rate to 3bpm @ 115 bbls, Bump plug @ 125 bbls 800-1500 PSI, Plug did hold, Hook up to basic side, mix 50s of cement, shut in with 100psi

SERVICE

DEPTH OF JOB	<u>5335</u>				
PUMP TRUCK CHARGE			<u>2695.</u>		
EXTRA FOOTAGE	_____	@	_____		
MILEAGE	<u>40</u>	@	<u>7.00</u>	<u>280.</u>	
MANIFOLD	<u>head rental</u>	@	<u>200.</u>	<u>200.</u>	
	<u>light vehicle</u>	@	<u>4.00</u>	<u>160.</u>	
	_____	@	_____	_____	
				TOTAL	<u>3335.-</u>

CHARGE TO: Woolsey Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	<u>5 1/2</u>				
1-AFD Plug shoe		@	<u>349.</u>	<u>349.</u>	
1-Latch down plug		@	<u>277.</u>	<u>277.</u>	
9-Turbolizers		@	<u>80.</u>	<u>720.</u>	
16-Scraperbars		@	<u>76.</u>	<u>1216.</u>	
	_____	@	_____	_____	
				TOTAL	<u>2562.-</u>

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer 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.

PRINTED NAME Alben F. Dick
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 16313.80
 DISCOUNT 20% IF PAID IN 30 DAYS
Net 13051.04

Thank you!!!



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Weckworth #5
Location: SE-SW-NW-SW Section 9 T35S-R12W
License Number: API: 15-007-23729-00-00
Spud Date: July 14, 2011
Surface Coordinates: 1615' FSL & 495' FEL Section 9 T35S-R12W
Region: Barber Co, KS
Drilling Completed: July 26, 2011

Bottom Hole
Coordinates:
Ground Elevation (ft): 1414' K.B. Elevation (ft): 1425'
Logged Interval (ft): 4700 To: TD Total Depth (ft): 4537
Formation: Pawnee to McLish Shale
Type of Drilling Fluid: Chemical Displaced at 3400'

Printed by WellSight Log Viewer 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: Roger L. Fisher
Company: Consulting Geologist
Address: 1928 N. Garland
Wichita Kansas, 67203

COMMENTS

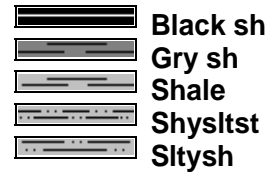
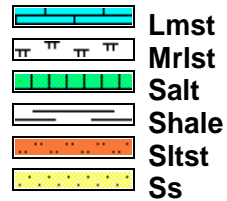
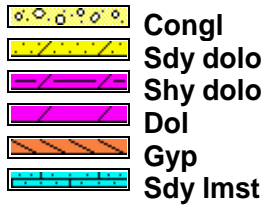
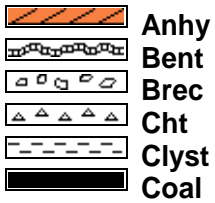
Surface Casing: 224' of 10 3/4", 906' of 8 5/8"
Production Casing: 5437' of 5 1/2"
Duke Rig #10
Gas Detector: Woolsey Operating Lab
Mud System: Mud Co
OH Logs: Superior Wireline; DILL, CDL/CNL/PE,

Note: Log Depths

DSTs

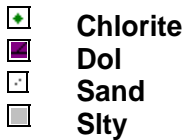
DSTs

ROCK TYPES

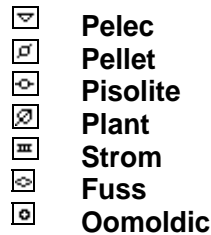
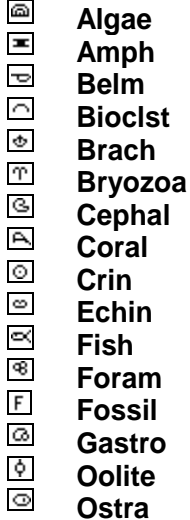


ACCESSORIES

MINERAL



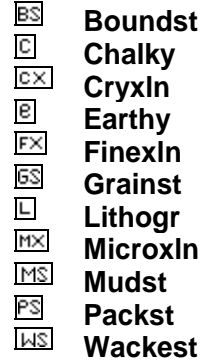
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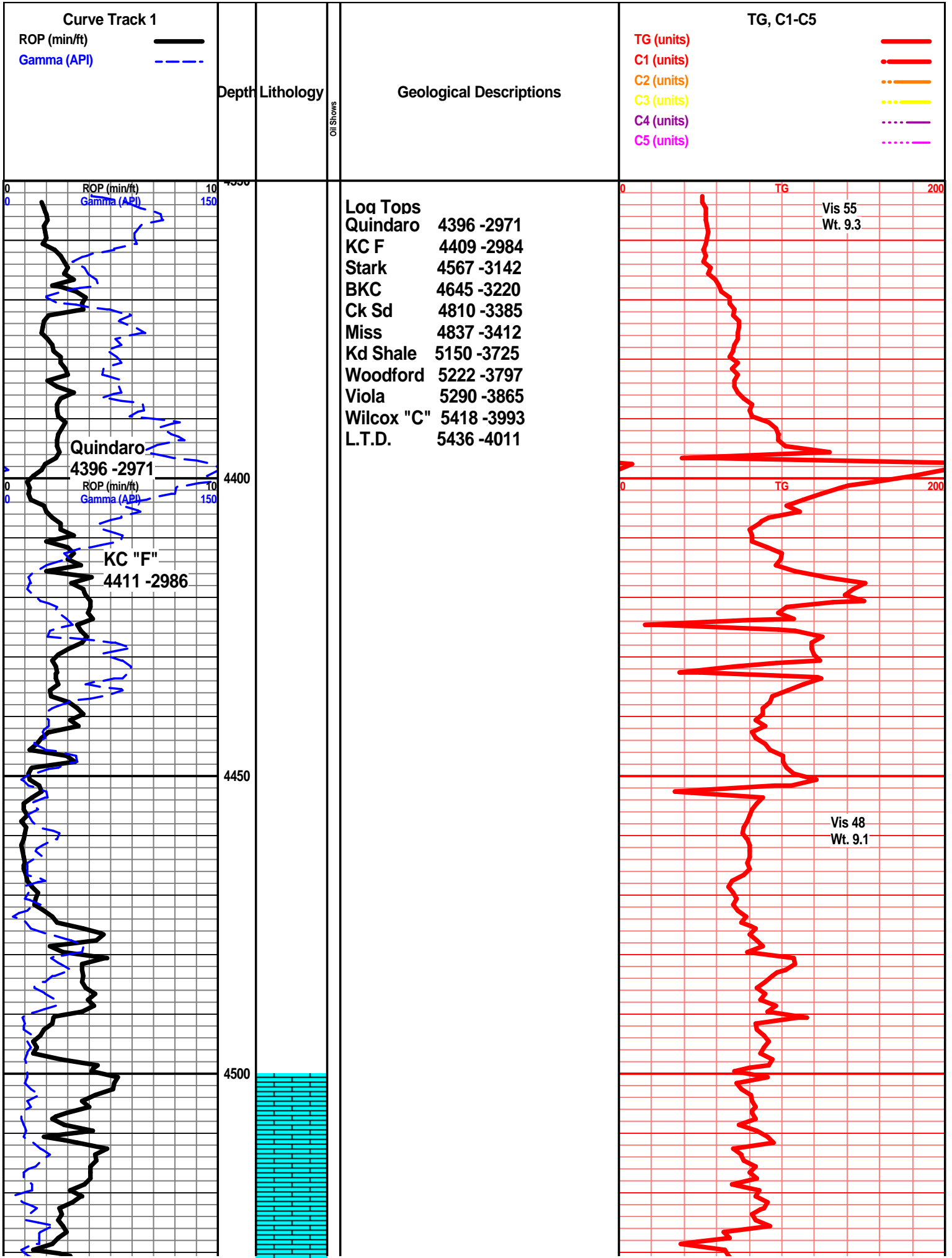


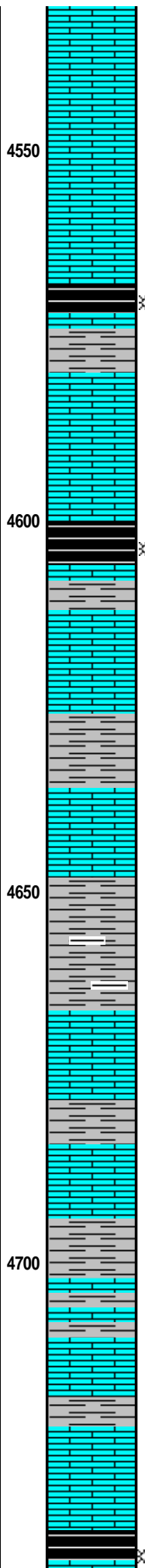
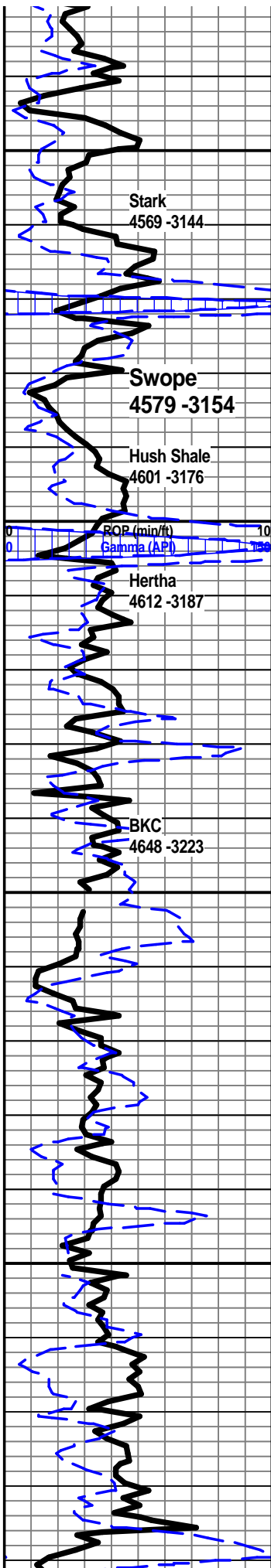
STRINGER



TEXTURE







Shale black carb gas bubbles shale gray dark gray

Ls light gray to dark tan foss ool fossil fragments subchalky slightly cherty gray tan clear sharp fresh fair inter foss porosity

Ls light gray to dark tan fxl dense slightly foss poor int xln porosity

Shale black carb gas bubbles

Ls creamy light gray f-mxln subchalky slightly foss fossil frag chert clear white tan

Shale light to med gray light green black silty some calc

Ls light gray tan vfxln dense foss trace chert shale as above light to med gray

Shale light to dark gray light green calc silty some arg light brown chert fragments clear white tan

Ls light gray fxl subchalky to dense foss fair inter foss porosity cherty

Shale light to med gray light green waxy calc

Ls tan gray vfxln dense slightly foss poor porosity

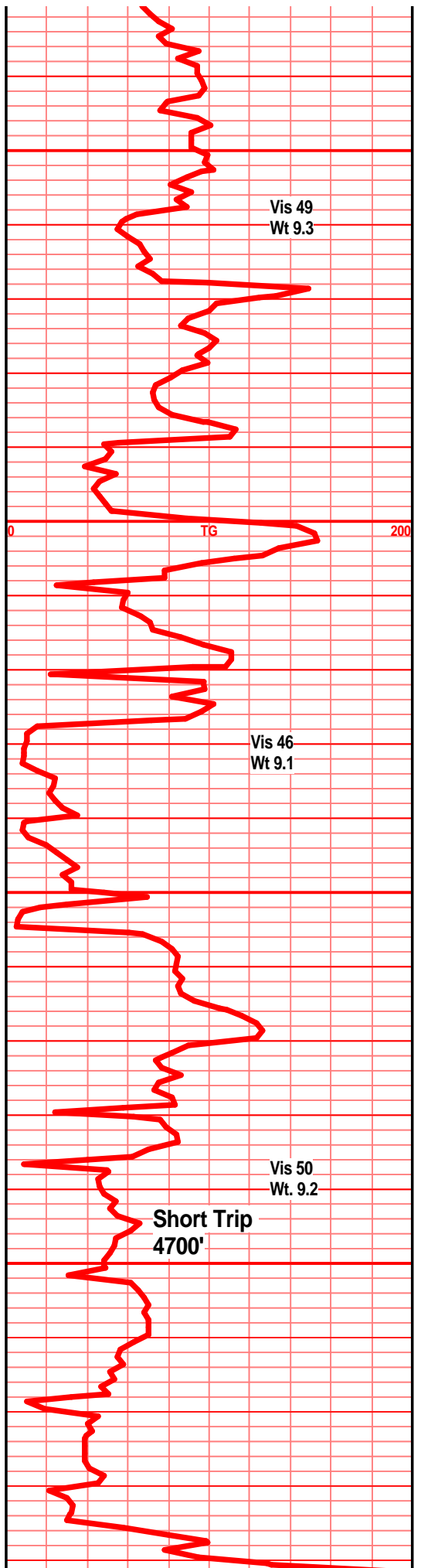
Shale light to med gray light green

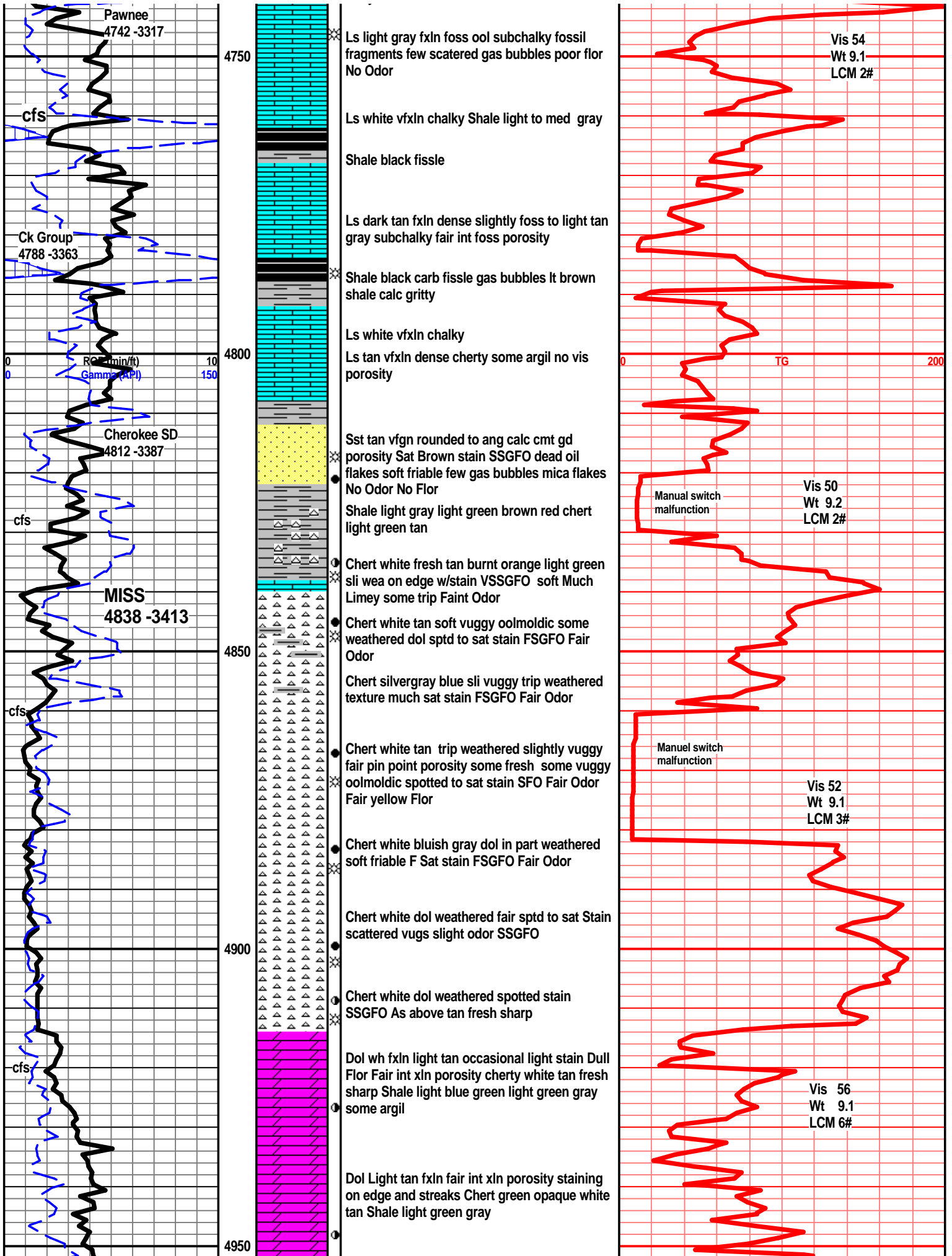
Ls light tan vfxln subchalky foss poor int foss porosity cherty

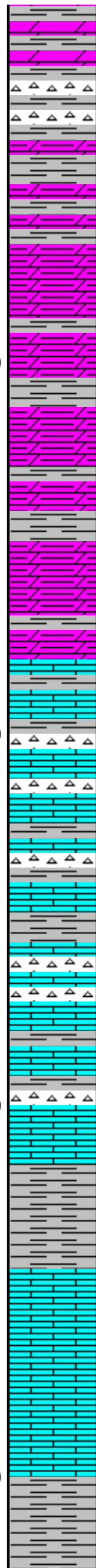
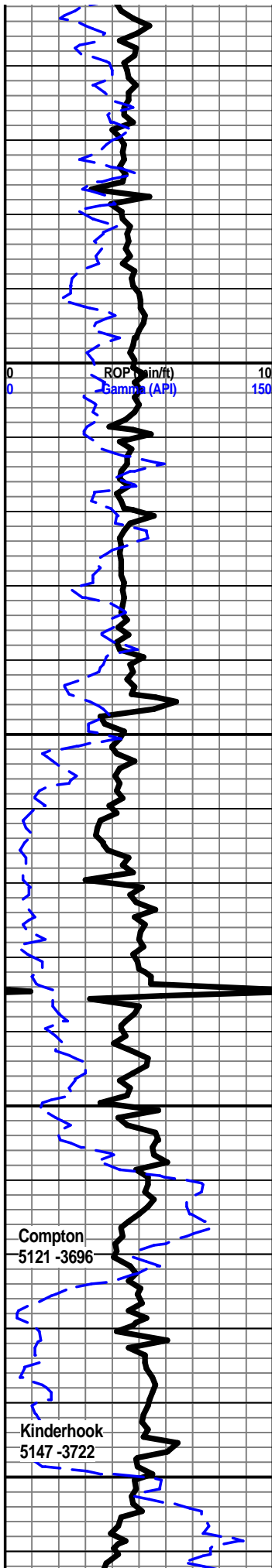
Ls light tan vfxln dense foss some recrystal chert frag

Ls dark tan vfxln dense slightly foss shale gray light green

Shale black carb gas bubbles med to dark gray waxy fissile







Shale light gray light green light tan calc some argil foss loose chert white opaque sharp fresh

Dol light tan fxln sandy Shale light to med gray light green calc some argil

Abundance of Shale light to med gray calc some light green chert white tan sharp fresh Dol light tan fxln

Dol light tan fxln Much Shale light to med gray light green black calc Chert frag white tan opaque fresh sharp N.S.

Dol as above light tan fxln chert fragments Shale light to med gray light green brown siltstone

Ls white fxln to mxln some cxln chert white tan opaque Shale light to med gray brown black

Ls shale and chert as above

Ls white to light tan f-mxln chalky to dense sli foss Chert white tan fresh Shale light to med gray light green soft

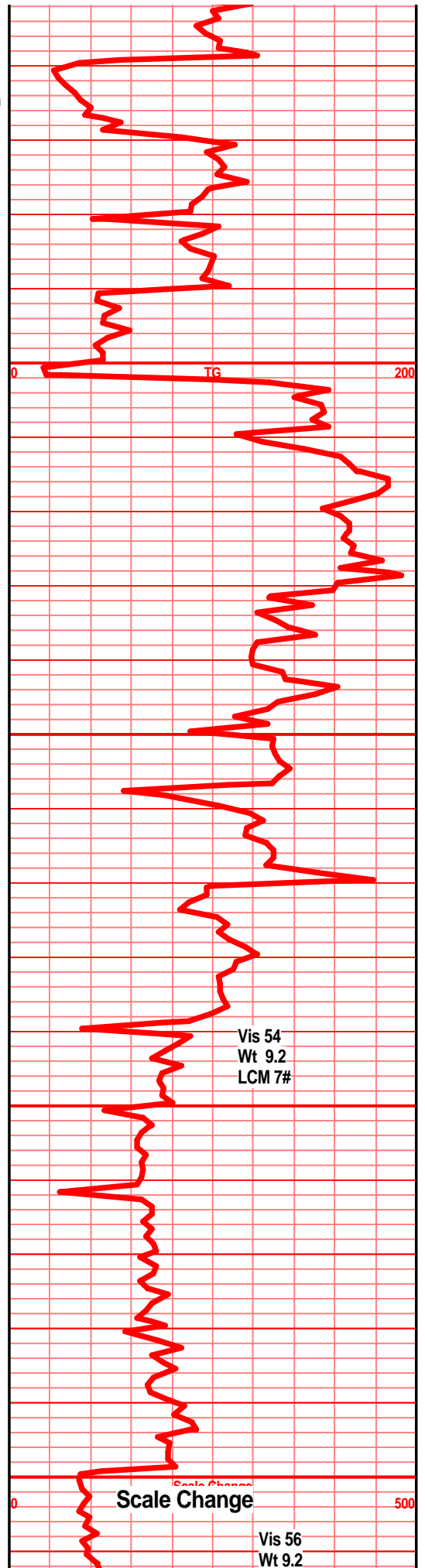
Ls light gray to tan fxln some mxln

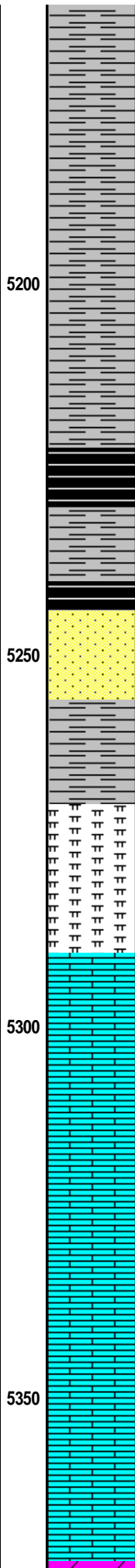
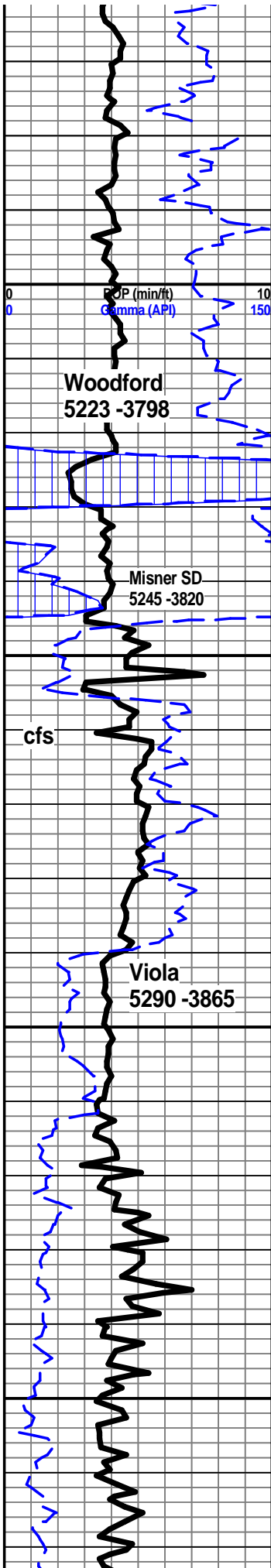
Shale Light green to light gray

Ls white fxln chalky

Ls white off white light gray fxln dense

Shale med to dark gray





Shale med to dark gray

Shale med to dark gray

Shale Black reddish brown carb waxy gasy

Shale dark brownish red light green gritty pyrite firm

Sst clear slightly frosted fine grain some med subangular well cmted si trace calcite cmt friable gd inter gran por TR FO No Odor

Sst light gray increasing calcite cmt poor porosity poor yellow flor No odor

Ls/Marl lt greenish gray microxn soft friable subchalky Shale light green silty sandy soft

Ls/Mar light green gray brown sandy gritty in part

Ls micro-xln light tan dense slightly mottled some off-wh Dol fxln subchalky w/fair int xln porosity

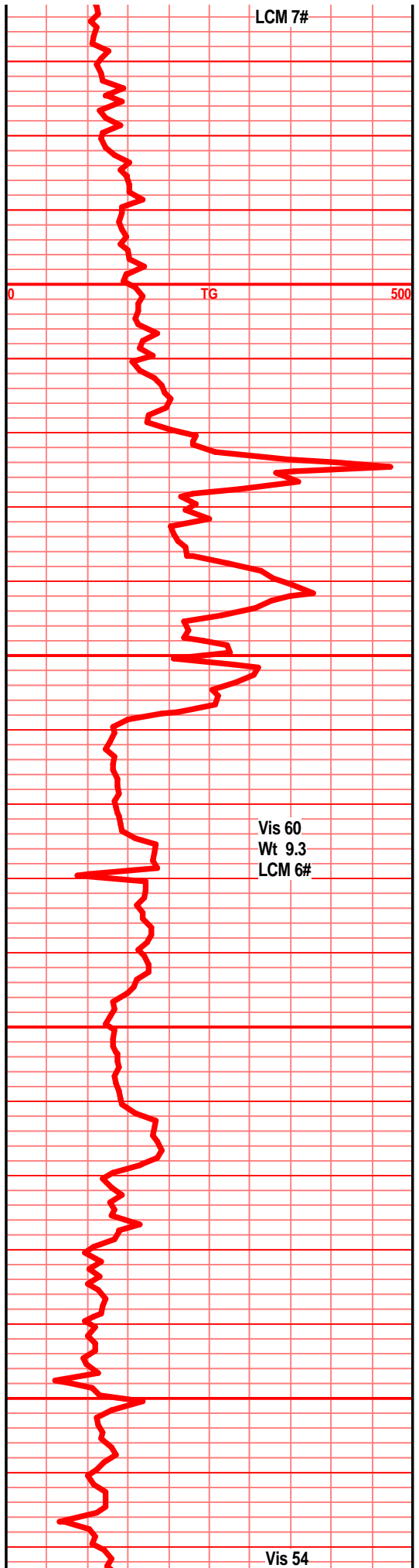
Ls off white to gray vfxln soft friable subchalky some dense

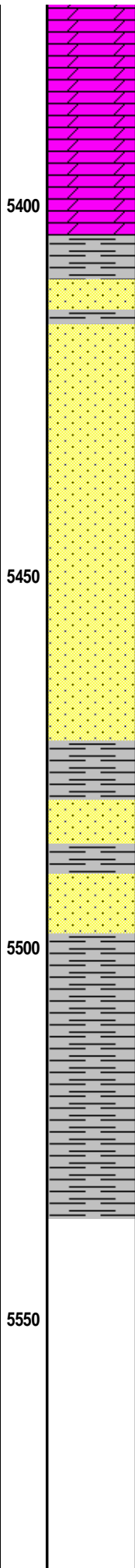
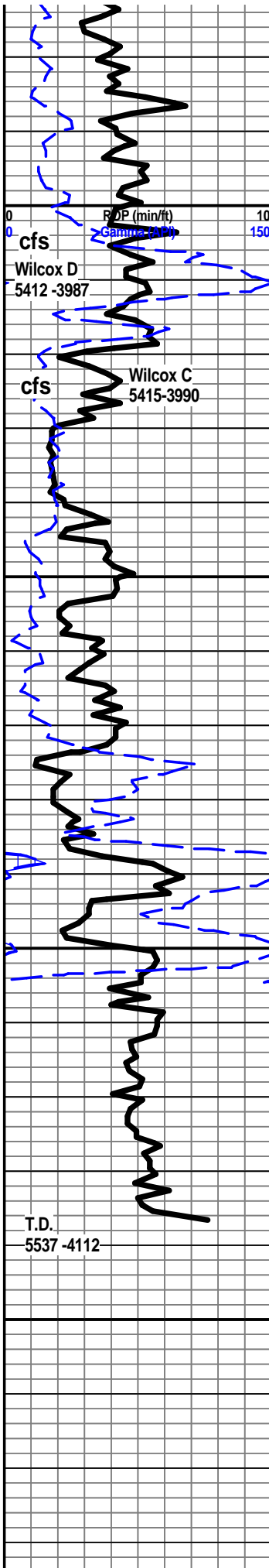
Ls light gray vfxln chalky few dense slightly mottled slightly cherty gray fresh sharp

Ls off white f-mxln slightly cherty mottled subchalky pyrite fair int xln porosity

Ls light tan vfxln dense some subchalky scattered fair int xln porosity slightly cherty tan sharp fresh

Ls light tan vfxln abundance of chert tan sharp fresh shale light green gray brown





Dol fxltn tan fxltn subchalky white Shale light green gray brown

Dol light tan fxltn sandy v fine gn hard chery in part white poor pin point porosity Sat Stain VSSFO No Odor

Dol light tan vfgrain sandy friable

Shale blue green pyrite waxy soft

Sst light gray clear f-med grain sub ang cal cmt friable N.S.

SSt white light gray f-m grain ang to rounded Fair int gn por pyrite friable light spotted stain VSSFO No Odor or gas

SSt white light gray to clear f-m grain subangular to rounded friable gd int grain porosity shale inclusions N.S.

Sst as above and tan fine grain rd to sub angular sub friable shale inclusions gd inter grain porosity trace oil film

Sst tan fine grain compact well cmtd Shale inclusions

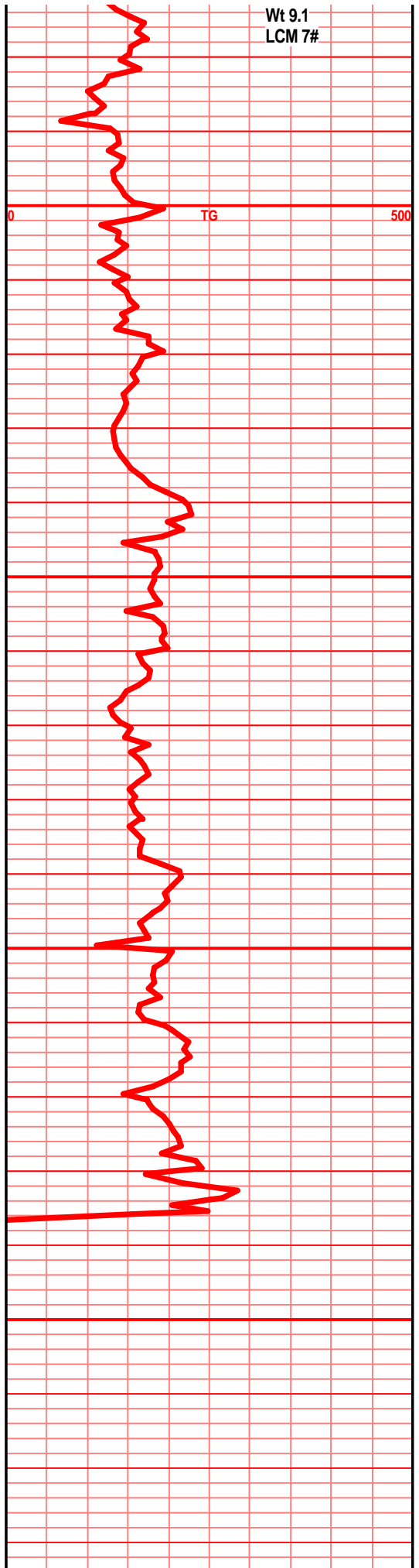
Shale blue green

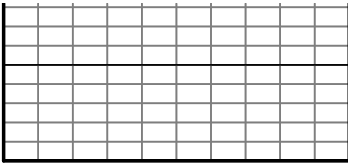
Sst white vfine grain some dol friable to firm pyrite subangular to rounded

McLish Shale 5503 4078

Shale bluish-gray pyrite

Shale gray bluish-gray pyrite





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