



KANSAS CORPORATION COMMISSION 1056017
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

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: _____



1056017

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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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 Bbbs.	Gas Mcf	Water Bbbs.	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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	DIEL D 4
Doc ID	1056017

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
CONDUCTOR	30	20	53	43	GROUT	4	(4yds not sx)
SURFACE	14.75	10.75	32.75	243	CLASS A	230	2% gel, 3% cc
PRODUCTION	7.875	5.5	15.5	4962	60/40 POZ	50	4% gel, 1/4 # Celoflake
PRODUCTION	7.875	5.5	15.5	4962	CLASS H	130	10% salt, 10% Gypseal, 6# Kolseal, 1/4# Celoflake, .8% fluid loss

ALLIED CEMENTING CO., LLC. 036828

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend KS

DATE <u>9-15-10</u>	SEC. <u>16</u>	TWP. <u>34S</u>	RANGE <u>11 W</u>	CALLED OUT	ON LOCATION	JOB START <u>400 AM</u>	JOB FINISH <u>430 AM</u>
LEASE <u>Dick 10th</u>	WELL # <u>4</u>	LOCATION <u>Medicine hodge south 281</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			To Scott canyon RD 3 East south 10				

CONTRACTOR H-2 Rig 3
 TYPE OF JOB Surface
 HOLE SIZE 14 1/2 T.D. 245
 CASING SIZE 10 3/4 31.23 DEPTH 231.30
 TUBING SIZE 8 5/8 DEPTH 15.50
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 20
 PERFS.
 DISPLACEMENT 22.25 BBLs

OWNER wooley operating co.
 CEMENT
 AMOUNT ORDERED 230 SK class A
3% cc 2% Gel

EQUIPMENT
 PUMP TRUCK CEMENTER wayne
 # HELPER
 BULK TRUCK
 # 364 DRIVER Bill
 BULK TRUCK
 # DRIVER

COMMON	<u>230</u>	@	<u>15.45</u>	<u>3,553.50</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>20.80</u>	<u>83.20</u>
CHLORIDE	<u>8</u>	@	<u>58.20</u>	<u>465.60</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>230</u>	@	<u>2.40</u>	<u>552.00</u>
MILEAGE	<u>230 x 12 x .10</u>		<u>276</u>	<u>312.00</u>
TOTAL				<u>4,966.30</u>

WELL FILE
 Regulatory Correspondence
 Drig Comp Workovers
 Tests / Meters Operations

REMARKS:

Pipe on Bottom B-back circulation
with Rig mud Shut Down
Hook up To cement line mix 230
SK class A 3% cc 2% Gel
Displace 22.23 BBLs Fresh water
Cement did circulate shut in
Wash up Rig Down

SERVICE

DEPTH OF JOB	<u>243.30</u>			
PUMP TRUCK CHARGE				<u>1018.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>12</u>	@	<u>7.00</u>	<u>84.00</u>
MANIFOLD		@		
		@		
		@		
TOTAL				<u>1102.00</u>

CHARGE TO: wooley operating co.
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
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
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Scott Albery
 SIGNATURE [Signature]

ALLIED CEMENTING CO., LLC. 042212

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>09 24 10</u>	SEC <u>16</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>11:45 AM</u>
LEASE <u>Diel D</u>	WELL # <u>4</u>	LOCATION <u>281 & Rattlesnake Rd, 3/4 into</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR _____ OWNER Woolsey Oper.

TYPE OF JOB Production Casing

HOLE SIZE 7 7/8 T.D. 5175

CASING SIZE 5 1/2 DEPTH 4962

TUBING SIZE 4 1/2 DEPTH _____

DRILL PIPE DEPTH _____

TOOL DEPTH _____

PRES. MAX 1500 MINIMUM _____

MEAS. LINE SHOE JOINT 42.12

CEMENT LEFT IN CSG. 42'

PERFS. _____

DISPLACEMENT 118 Bbls 2% KCL Water

CEMENT			
AMOUNT ORDERED	<u>75sx 60:40:40 gel + 1/4 # Floseal & 130sx class H + 10% salt + 10% gyp + 6 # Kalsal + 1/4 # Flo seal + .8% FL-160 & 12 galr clapro.</u>		
COMMON	<u>45 4</u>	@	<u>15.45 695.25</u>
POZMIX	<u>30 5x</u>	@	<u>8.00 240.00</u>
GEL	<u>3 5x</u>	@	<u>20.80 62.40</u>
CHLORIDE		@	
ASC		@	
Floseal	<u>51.25</u>	@	<u>2.50 128.12</u>
Class H	<u>130 5x</u>	@	<u>16.75 2177.50</u>
Gypseal	<u>13 5x</u>	@	<u>29.20 379.60</u>
Salt	<u>14 5x</u>	@	<u>12.00 168.00</u>
Kalsal	<u>780</u>	@	<u>.89 694.20</u>
FL-160	<u>97.76</u>	@	<u>13.30 1300.20</u>
Clapro	<u>12 99ls</u>	@	<u>31.30 375.60</u>
HANDLING	<u>254</u>	@	<u>2.40 609.60</u>
MILEAGE	<u>254/10/15</u>		<u>381.00</u>
			TOTAL <u>7211.47</u>

EQUIPMENT

PUMP TRUCK CEMENTER D. Folio

360-265 HELPER m. Thimesch

BULK TRUCK

364 DRIVER R. Gilley

BULK TRUCK

_____ DRIVER _____

REMARKS:

Pipe on Bttm Breaks Circ., Pump 25rx to Plug rat holes, Mix 50sx 5 scavenger, Mix 130sx tail cement, 5 top pump, Wash pump & lines Release Plug, Start Disp. w/ 2% KCL Water, See Steady increase in PSI, Slow Rate, Bump Plug at 118 Bbls total Disp., Release PSI, Float Did Hold

SERVICE

DEPTH OF JOB	<u>4962</u>		
PUMP TRUCK CHARGE		@	<u>2185.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>15</u>	@	<u>7.00 105.00</u>
MANIFOLD <u>Head Rental</u>		@	
		@	
		@	
			TOTAL <u>2290.00</u>

CHARGE TO: Woolsey Oper.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

1- AFU Float Shoe	@	<u>214.20</u>
1- Latch down Plug Assy.	@	<u>163.80</u>
1- Turbolizers	@	<u>40.60 446.60</u>
15- Recp. Scratchers	@	<u>23.94 359.10</u>
	@	
TOTAL <u>1183.70</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.

SALES TAX (If Any) _____

TOTAL CHARGES ~~7211.47~~

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Scott Alberg

SIGNATURE [Signature]



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Company

Diel D#4

125 N Market Ste 1000
Wichita KS 67202

16 34s 11w Barber

Job Ticket: 37539

DST#: 1

ATTN: Scott Alberg

Test Start: 2010.09.21 @ 05:43:13

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:38:43

Time Test Ended: 15:45:13

Test Type: Conventional Bottom Hole

Tester: Esak Hadley

Unit No: 34

Interval: 4475.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 1340.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

1331.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 132.13 psig @ 4476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.09.21

End Date:

2010.09.21

Last Calib.:

2010.09.21

Start Time: 05:43:18

End Time:

15:45:13

Time On Btm:

2010.09.21 @ 08:35:13

Time Off Btm:

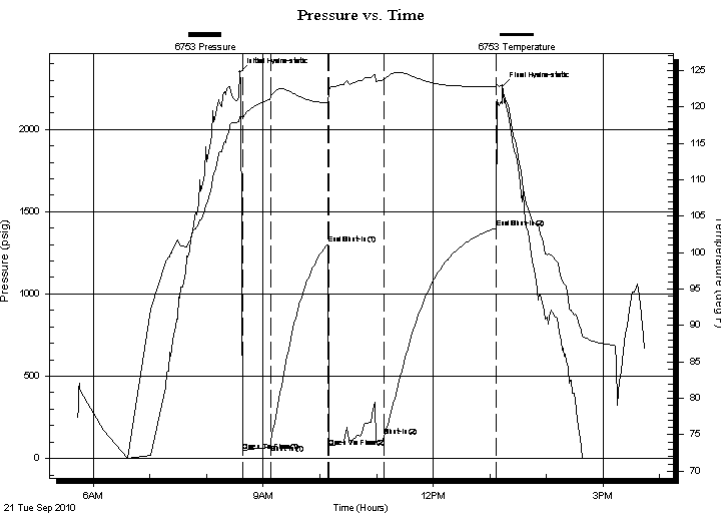
2010.09.21 @ 13:13:13

TEST COMMENT: IF Fair to strong blow BOB in 4 min.

ISI No blow .

FF Strong blow . BOB in 2 sec.

FSI No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2346.76	118.60	Initial Hydro-static
4	45.98	118.56	Open To Flow (1)
33	87.59	121.23	Shut-In(1)
93	1302.08	120.58	End Shut-In(1)
95	66.04	122.17	Open To Flow (2)
153	132.13	123.81	Shut-In(2)
272	1399.84	122.83	End Shut-In(2)
278	2261.83	123.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	drlg mud w/ oil specs	0.31
77.00	drlg mud	0.38

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Company

Diel D#4

125 N Market Ste 1000
Wichita KS 67202

16 34s 11w Barber

Job Ticket: 37539

DST#: 1

ATTN: Scott Alberg

Test Start: 2010.09.21 @ 05:43:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	drlg mud w / oil specs	0.310
77.00	drlg mud	0.379

Total Length: 140.00 ft

Total Volume: 0.689 bbl

Num Fluid Samples: 0

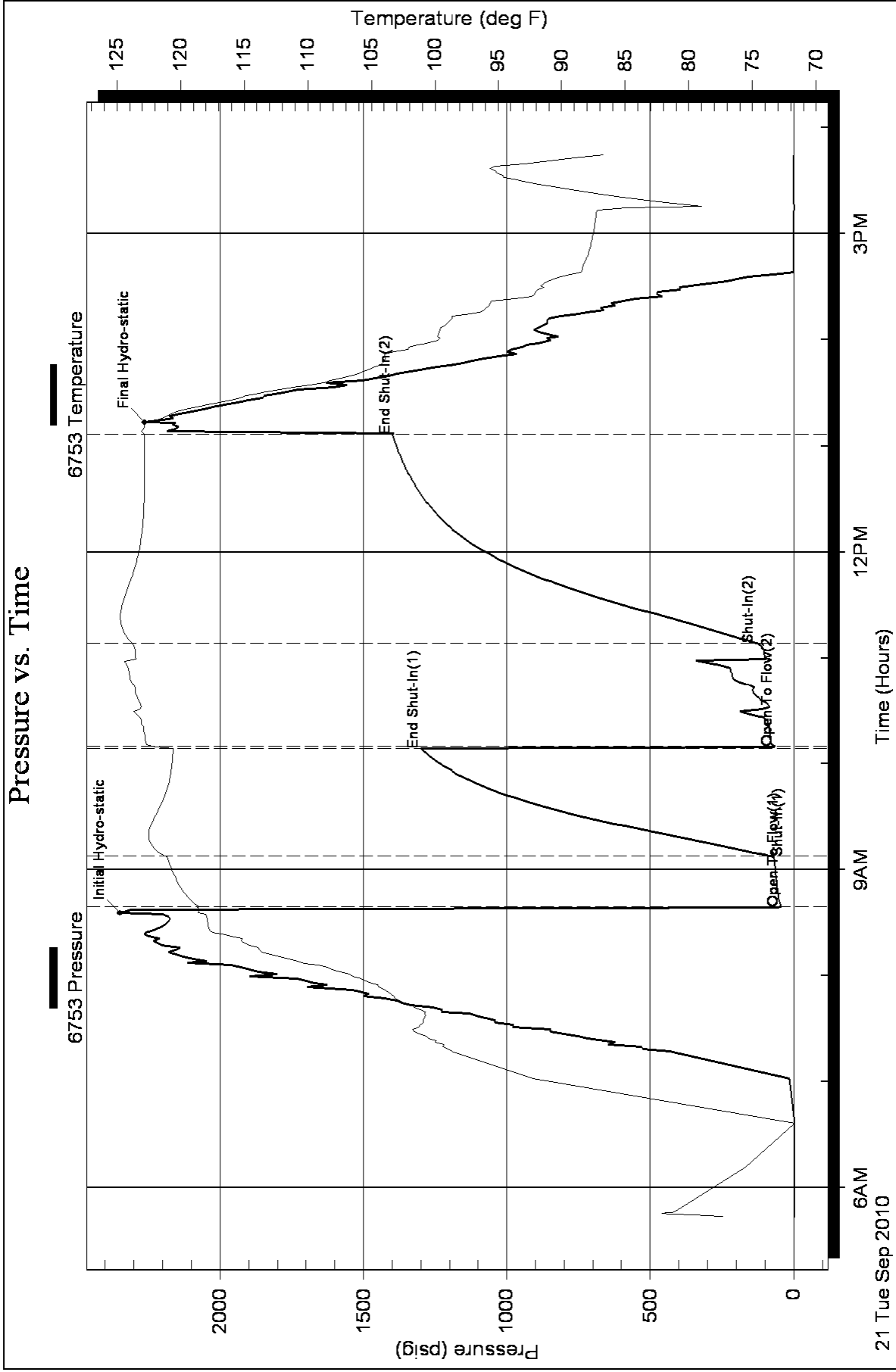
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Diel #D 4
Location: S2 NE NE NE
License Number: API: 15-007-23593-00-00
Spud Date: September 14, 2010
Surface Coordinates: 500' FNL, 330' FEL Section 16-Twp 34 South - Rge 11 West
Field Schupach
Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 1331' K.B. Elevation (ft): 1340'
Logged Interval (ft): 2600 To: 5175 Total Depth (ft): 5175
Formation: McLish Sand
Type of Drilling Fluid: Chemical Mud, Displace 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: W. Scott Alberg
Company: Alberg Petroleum, LLC
Address: 609 Meadowlark Lane
Pratt, Kansas 67124

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
HUSHPUCKNEY SHALE	4313(-2973)	4320(-2980)
B/KC	4365(-3025)	4370(-3030)
PAWNEE	4457(-3117)	4462(-3122)
CHEROKEE GROUP	4506(-3166)	4514(-3174)
CHEROKEE SAND	4533(-3193)	4539(-3199)
MISSISSIPPIAN	4542(-3202)	4550(-3210)
COWLEY C2	4582(-3242)	4589(-3249)
COMPTON LIMESTONE	4743(-3403)	4744(-3404)
KINDERHOOK SHALE	4753(-3413)	4756(-3416)
WOODFORD SHALE	4835(-3495)	4840(-3500)
MAQUOKETA	4863(-3523)	4870(-3530)
VIOLA	4886(-3546)	4892(-3552)
SIMPSON GROUP	4981(-3641)	4983(-3643)
SIMPSON WILCOX	5006(-3666)	5006(-3666)
MCLISH SHALE	5049(-3709)	5053(-3713)
MCLISH SAND	5128(-3788)	5133(-3793)
RTD	5175(-3835)	
LTD		5182(-3842)

COMMENTS

Surface Casing: Set 6 joints 10 3/4" at 243' (tally 231') with 230 sxs Class A, 2% gel, 3% cc, plug down at 4:45 am on September 15, 2010. Cement did Circulate.
Production Casing: 5 1/2" Casing Ran, set at 4962' w/ 50 sks 60/40 poz, 130 sks Class H. 25 sks 60/40 poz in Rathole.

Deviation Surveys: 245-3/4, 742 1/2, 1253 1/4, 1759 1/4, 2268 1, 2588 3/4, 30923/4, 3600 1, 4045 3/4, 4600 3/4, 5175 1.

Pipe Strap @ 4045', Strap 4034.98 - 4033.46 (Board) = Strap long 1.52', no correction.

Contractor Bit Record: 1- 14 3/4" out at 245'

2- 7 7/8" PDC Smith out at 4045'

3 - 7 7/8" Smith F 27 out at 5175'

Gas Detector: GeoDynamics Well Logging, Unit 16

Mud System: Mud Co, Brad Bortz, Jason Witting, Engineers

DSTs: One DST, See DST Remarks

DSTs

DST #1 4475 to 4600' Mississippian

Times 30-60-60-120

SB both openings, No GTS

IHP 2347 FHP 2262

IFP 46-88 FFP 66-132

ISIP 1302 FSIP 1400

Recovery: 77' DM, 63' DM w/ few oil specks.

CREWS

H2 Drilling Rig #3

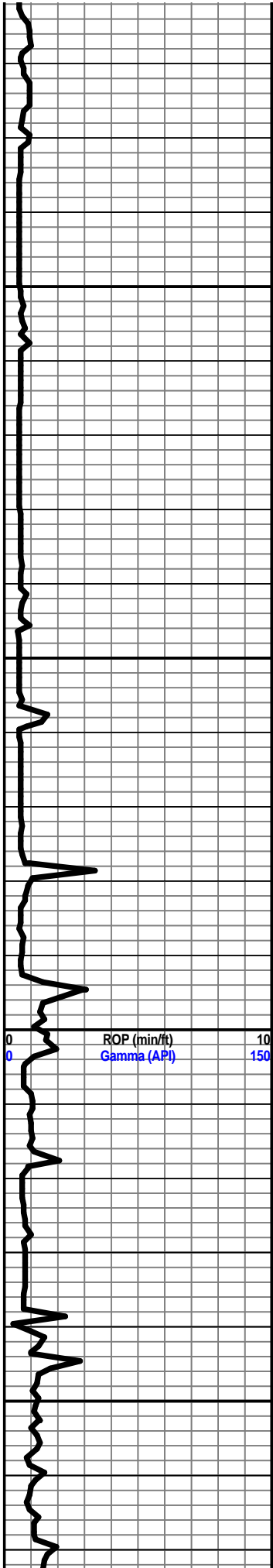
Tool Pusher - James Schultz

Drillers - Jose Ortiz

Guillermo Alarcon

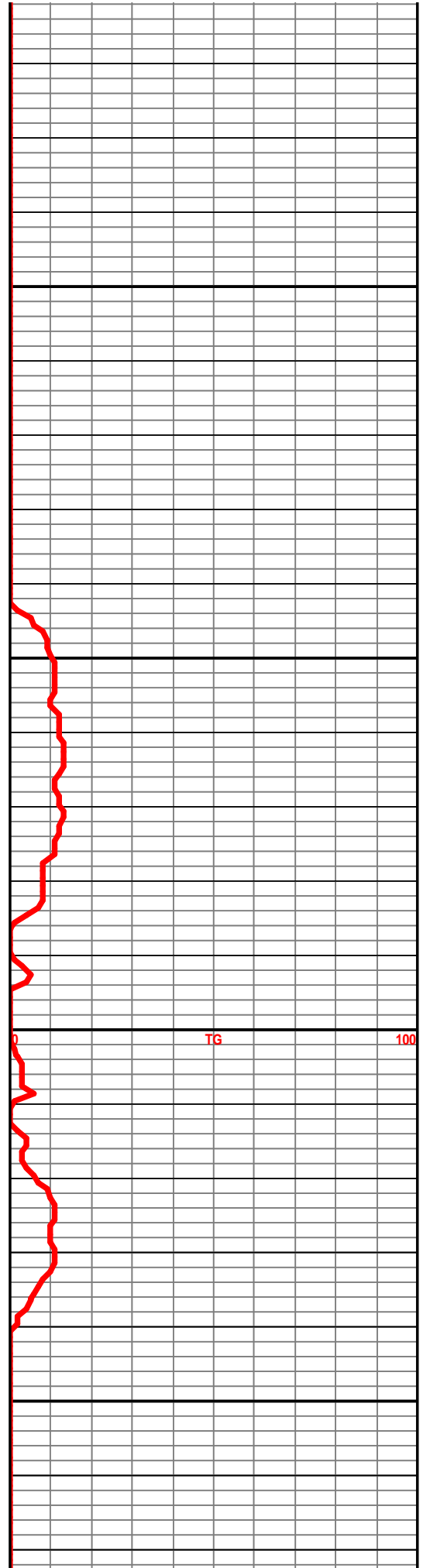
Randon Smith

Jose Fabla



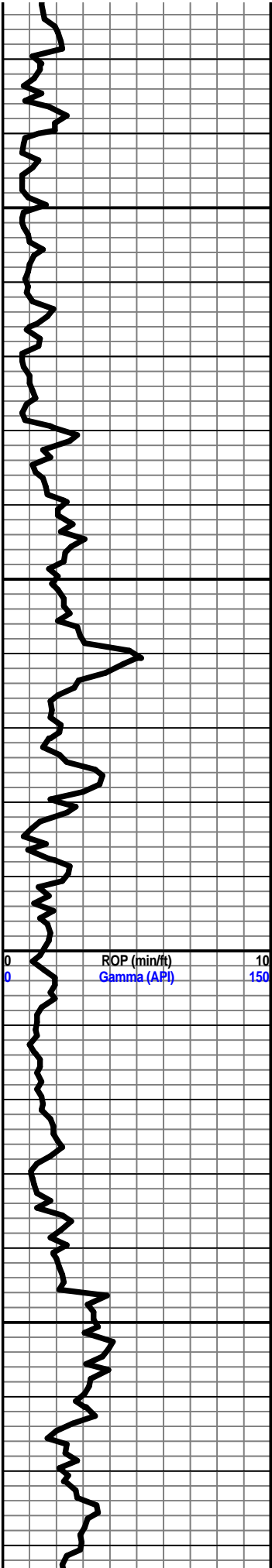
2850 2800 2750 2700

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



TG

100



2900

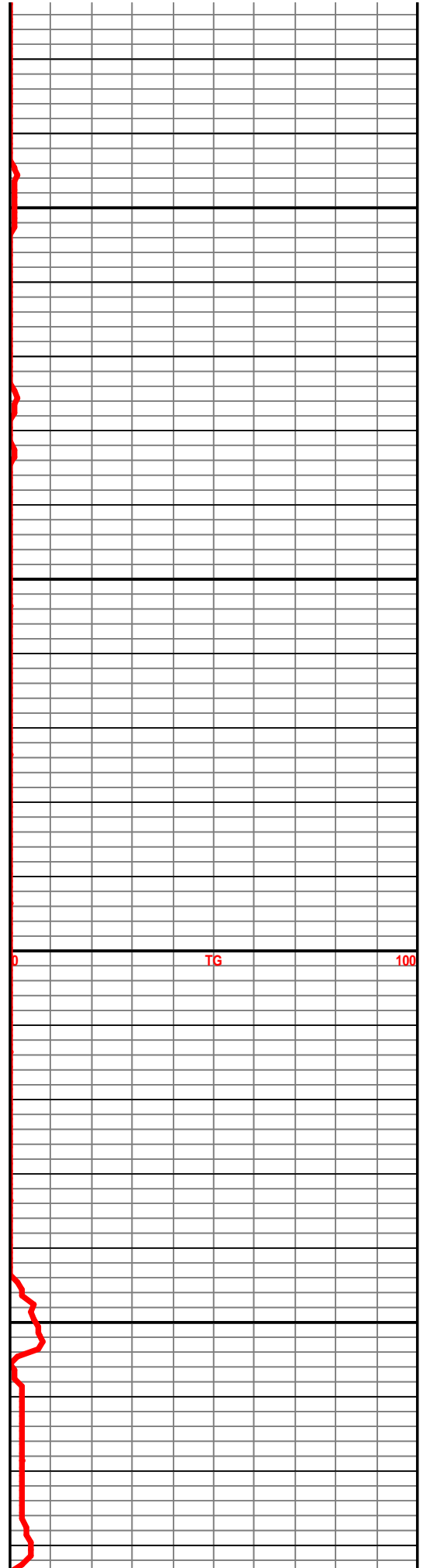
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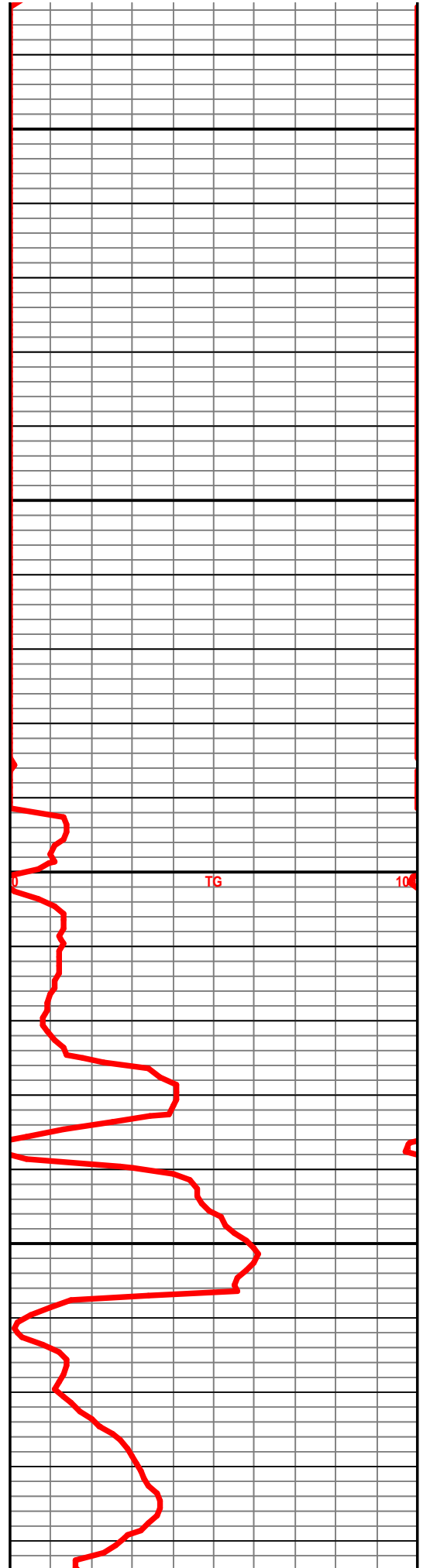
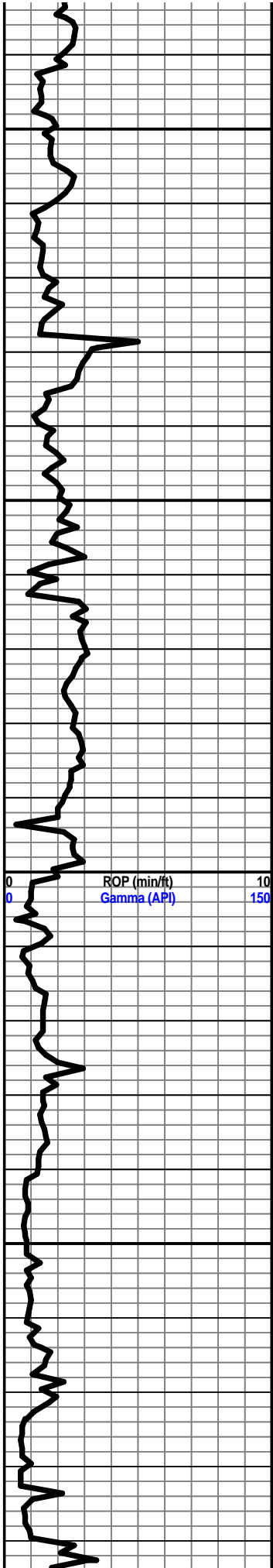
ROP (min/ft)
Gamma (API)

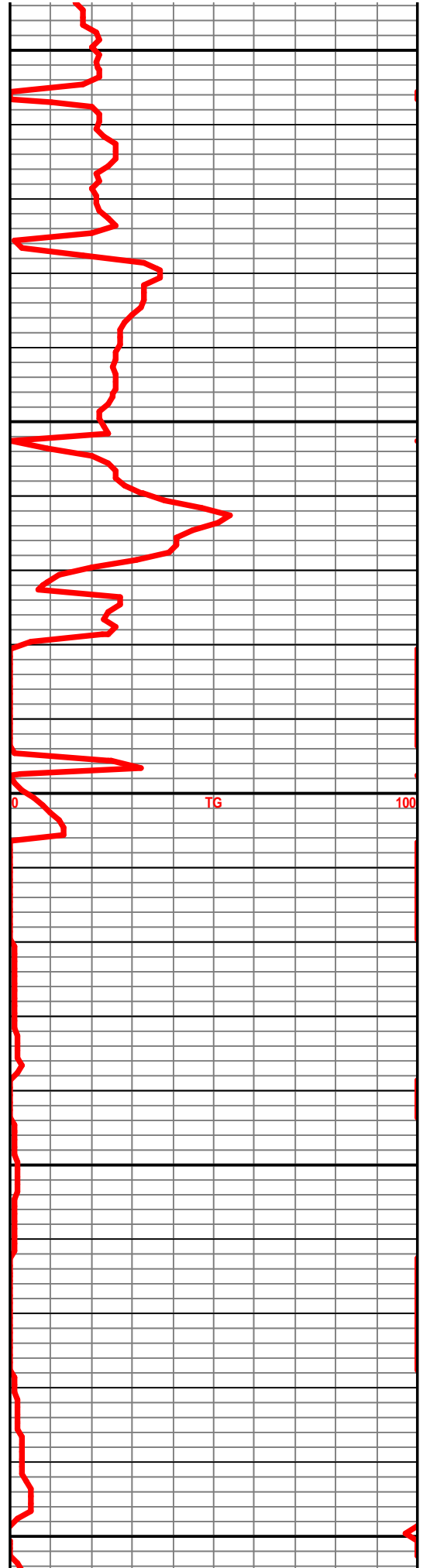
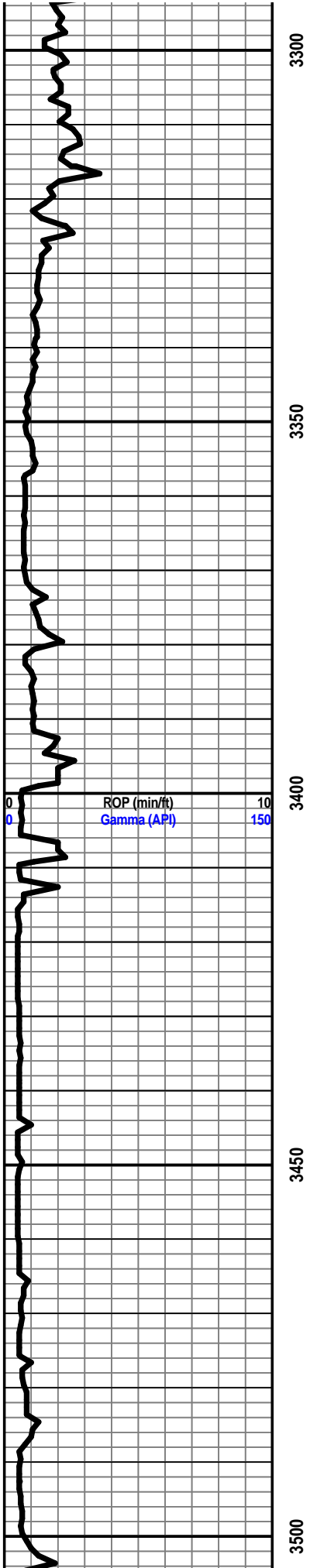
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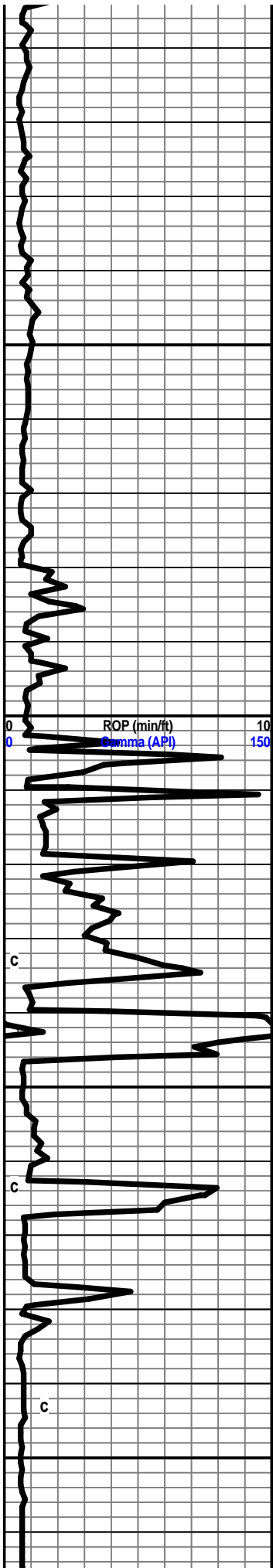


TG

100





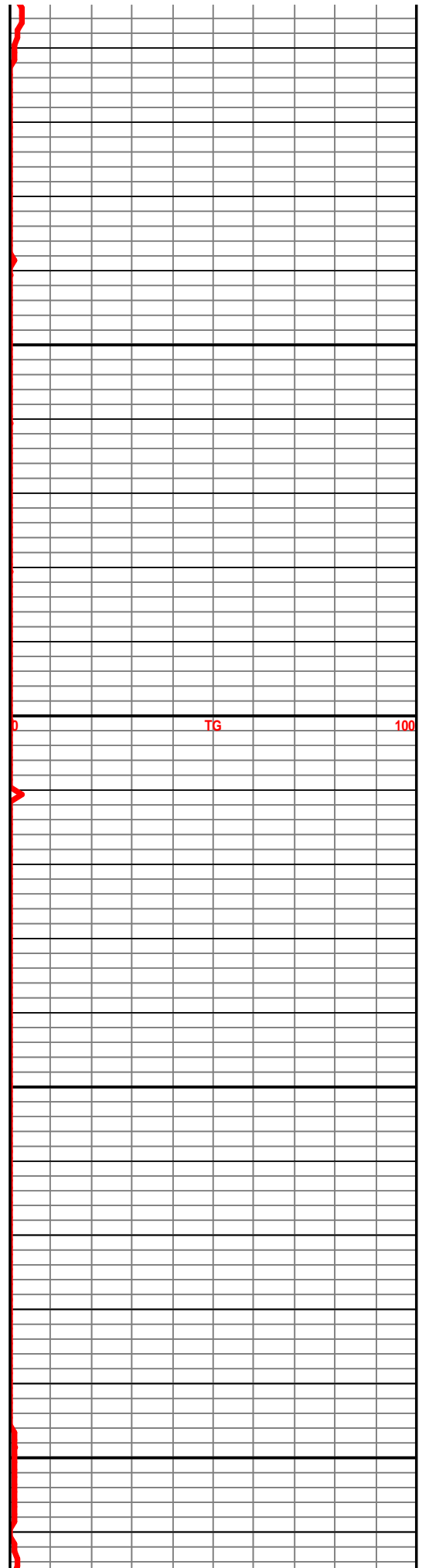


3550

3600

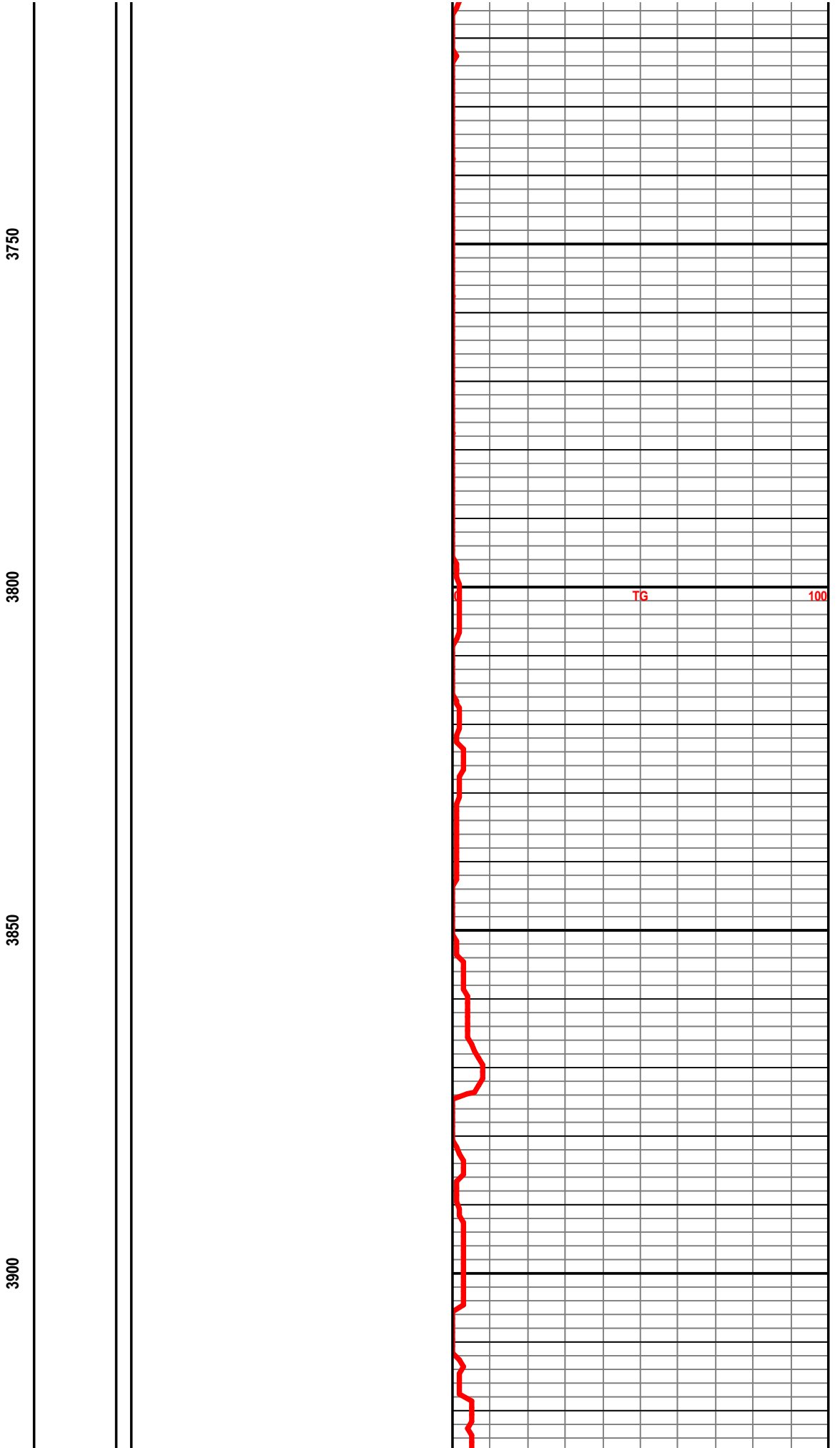
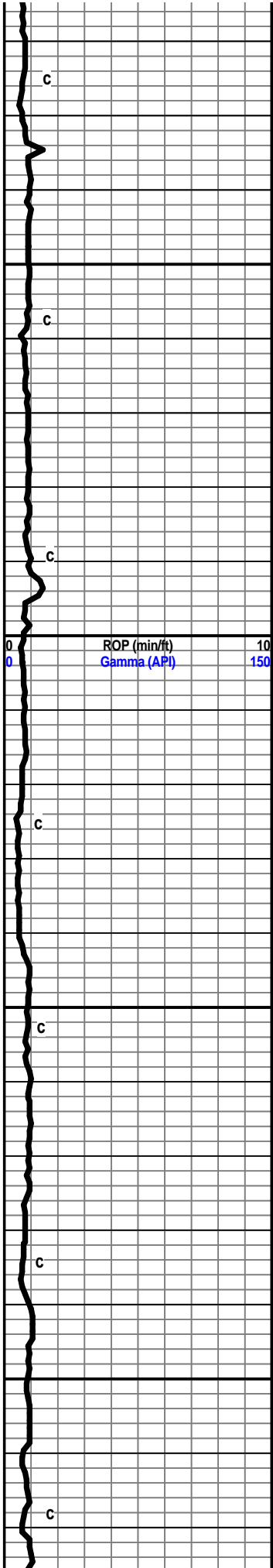
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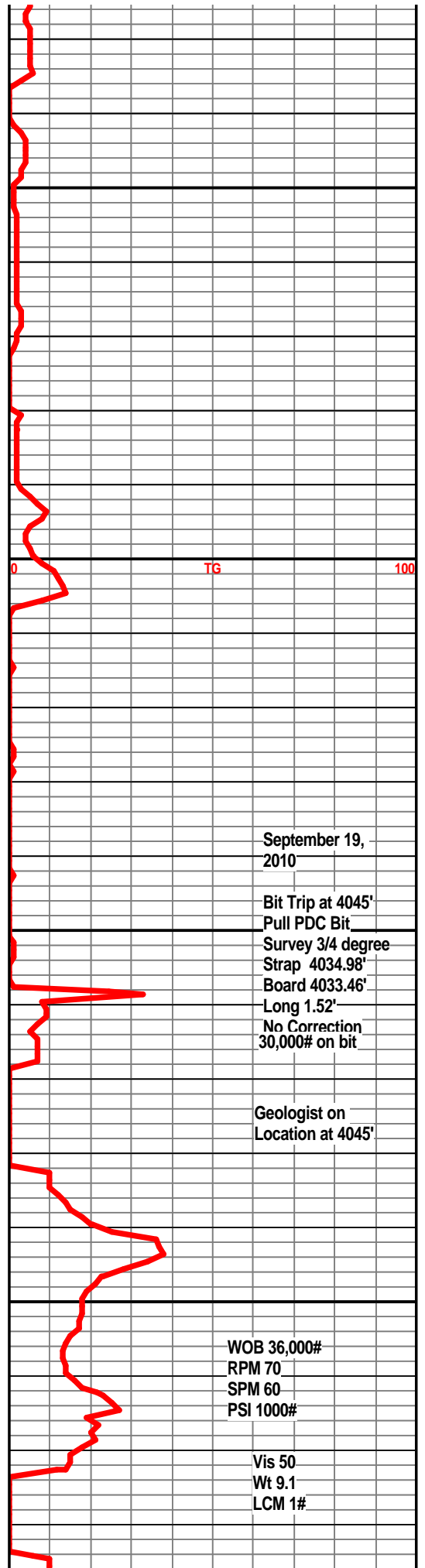
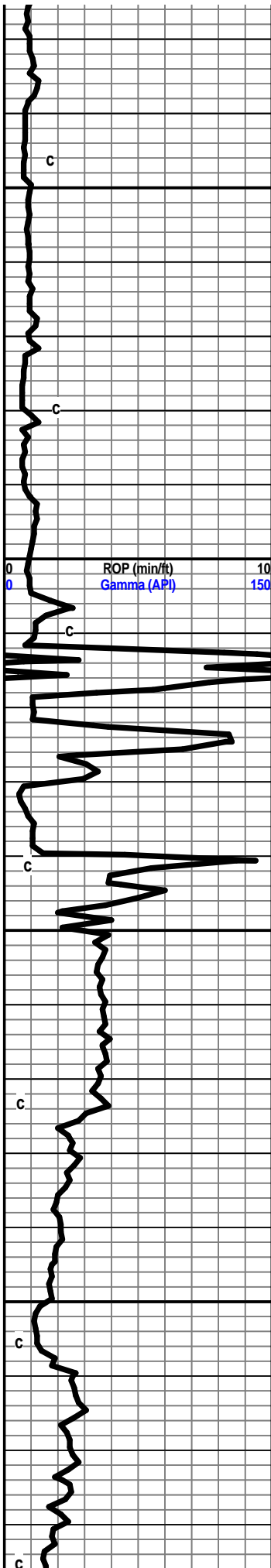
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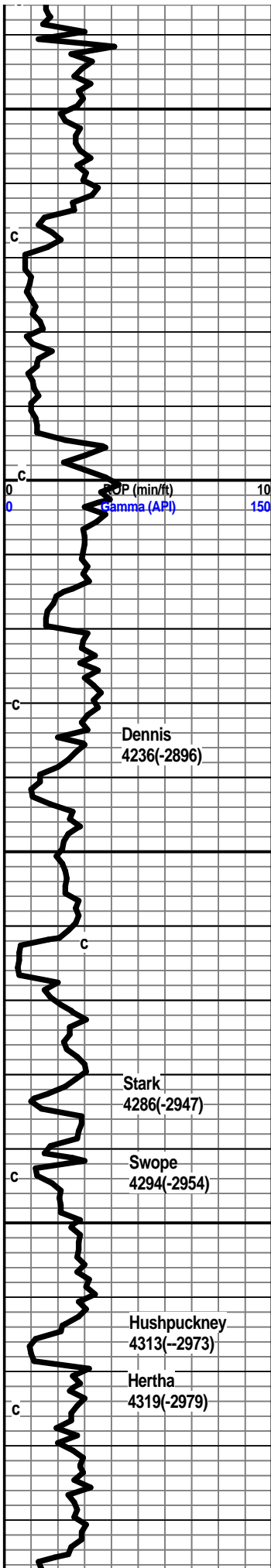


TG

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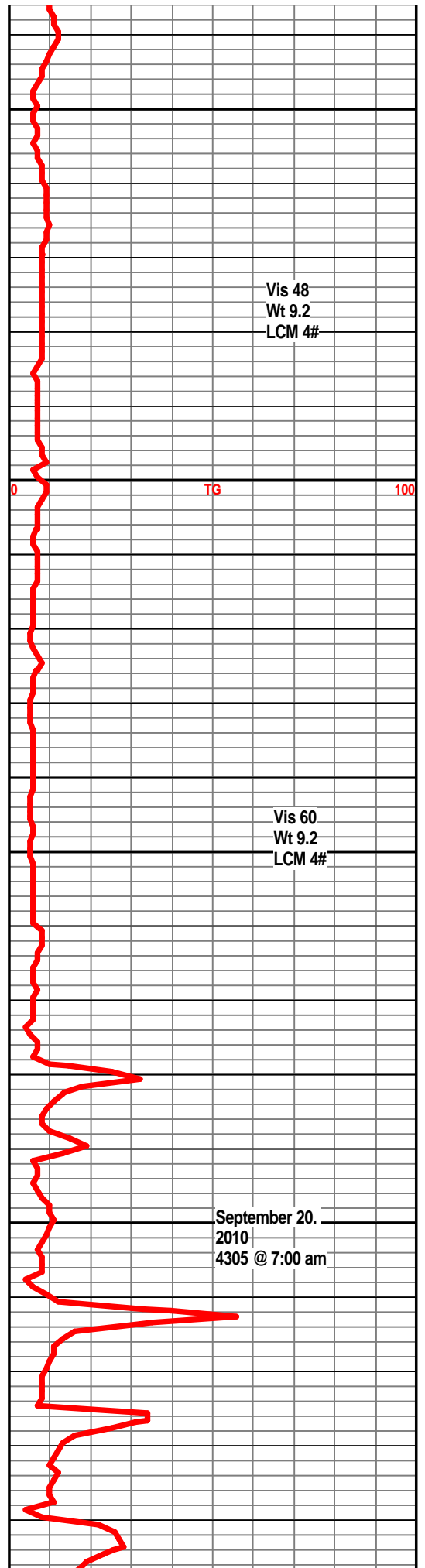
4150

4200

4250

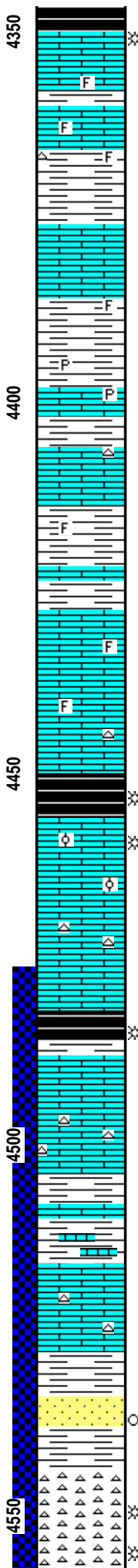
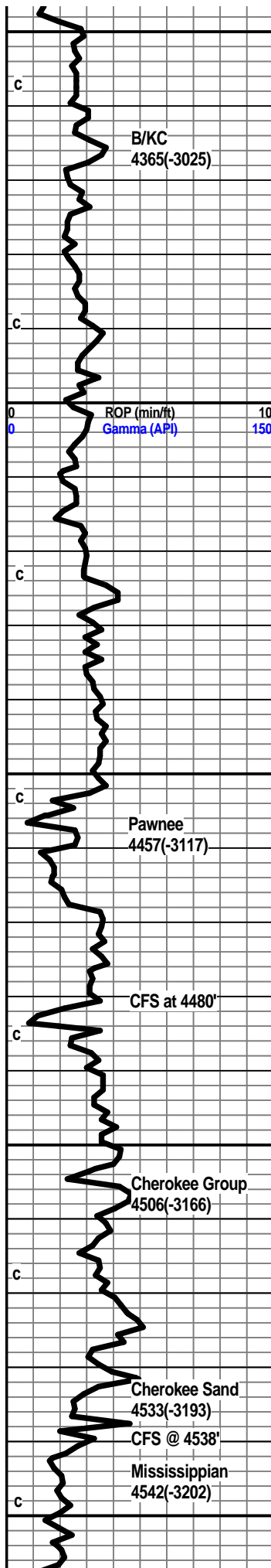
4300

Shale gray-black carb in part slight show gas



TG

September 20, 2010
4305 @ 7:00 am



Shale, grey black, carb in part, slight show gas bubbles.

Limestone, cream-tan, some lt brown, finely crystalline, trace foss frags, slightly sub chalky, some tan chert.

Shale, grey-black, some green-brown.

Limestone, cream-white, some tan, fxln, trace foss frags, slight chalky, shaley in part.

Shale, green-grey, silty to sandy in part, slightly limey, traces of pyrite.

Limestone, creamy-tan, fmxln, traces of tan chert.

Shale, grey-green, firm, waxy.

Limestone, tan-white, fxln, traces of foss. frags.

Shale, dk grey.

Limestone, cream-white, fmxln, shaley.

Shale, grey, green-brown.

Limestone, cream to tan-white, fxln, slightly foss., sub chalky.

a/a

Shale, Grey-black, carb.

Limestone, cream-white to off-white, tan, fmxln, slightly chalky, foss frags, slightly oolitic, tr. inter ool porosity, slight show of gas bubbles, no odor, no visible staining, poor fluor., trace of oolimoldic porosity.

Limestone, cream-tan, fxln, dense, trace tan chert, slightly foss.

Shale, grey-black, carb
 Shale, grey-green, firm.

Limestone, cream, tan-white, fmxln, sub chalky, trace of foss., cherty in part.

Shale, grey, green, firm, trace pyrite.

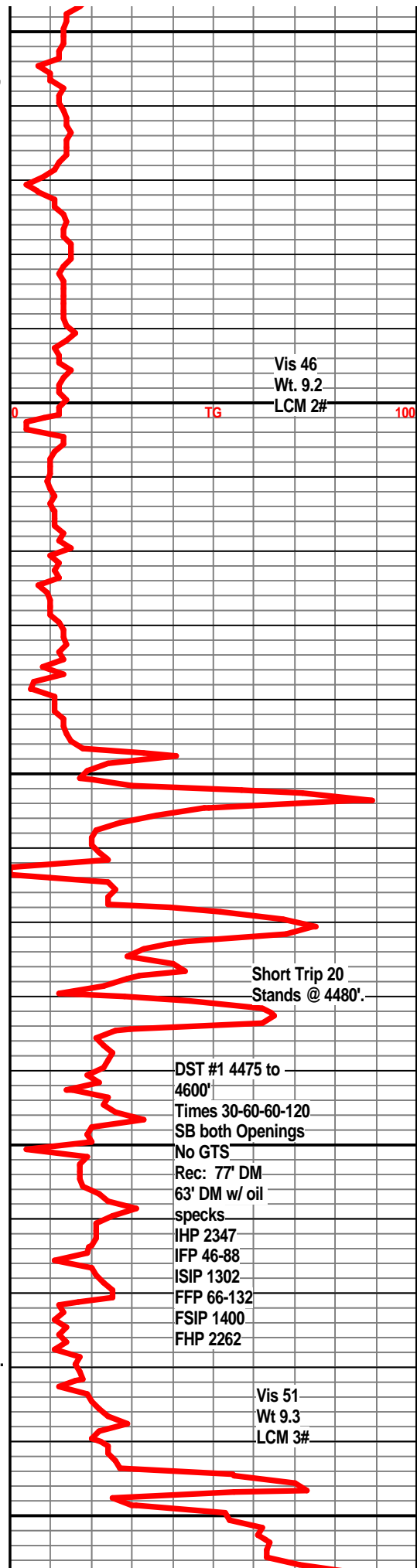
Shale, as above, some interbedded limestone stringers.

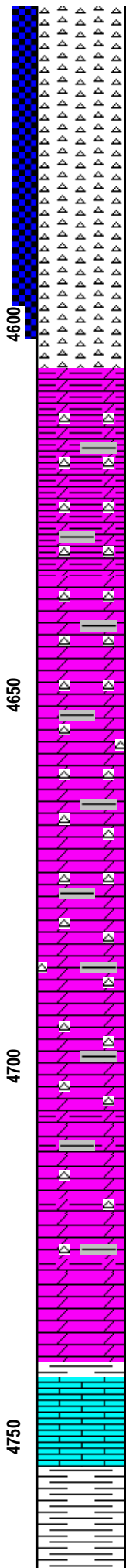
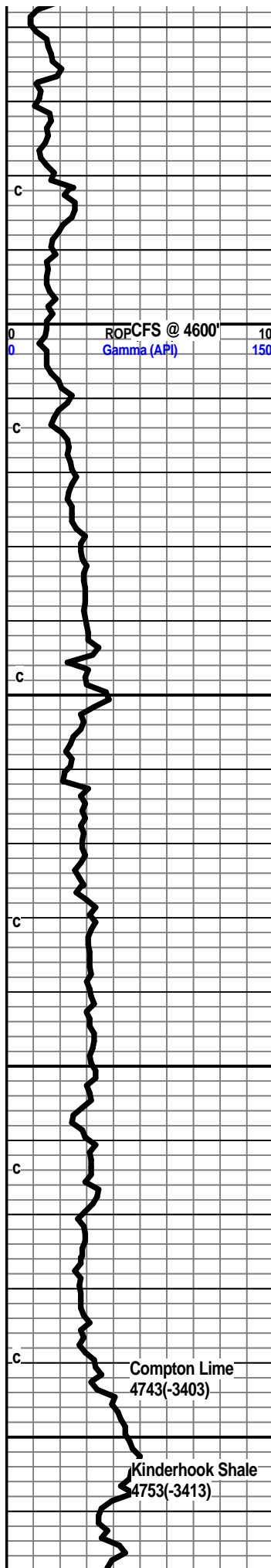
Limestone, cream-white, fxln, sub-chalky, traces of scattered chert.

Shale, grey, dark grey, some green-brown, firm.

SST, grey, dirty, some light brown clusters, well cemented, fine grained, SA, silty in part, traces of dark asphaltic staining, glau, few pieces friable, no odor, no fluor, no shows of free oil.

Chert, white, off white, sharp, fresh, slightly weathered, trace of edge staining, some dark asphaltic staining, slight show of oil and gas, faint odor, very dull fluor along edges





Chert, white, off-white, weathered, scattered vugs, fair light brown staining, p-f odor, slight show oil, few gas bubbles, edge staining, sharp.

Chert, white, smokey grey, sharp, weathered, fair odor, fair show oil, trace of fossils, few scattered vugs with bleeding oil and gas, fair odor. Some free oil in tray.

Chert, white, off-white, sharp, slightly weathered, few scattered small vugs, fair light brown staining, edge staining, dull fluor, p-f odor, slight show of oil, trace free oil in tray.

LS, dolo, tan-white, light brown, cherty, fresh, sharp, some weathered with fair light staining, trace show of oil, no odor, v. dull fluor., abundant grey, dk grey shales, firm, blk, splintery.

Dolo, lt, grey, dirty white, traces of pp porosity, cherty, fresh, sharp, trace weathered, very slight show lt. staining, no show free oil, no odor,

Dolo, grey, lt grey, cream, cherty, traces of pp porosity, no odor, no vis shows.

Dolo, grey, lt grey, some cream-white to tan, xln, pp porosity, cherty in part, no odor, no vis shows.

Dolo, lt grey, cream to off-white, cherty, traces of shale.

Dolo, grey to lt grey, cherty, sharp, fresh.

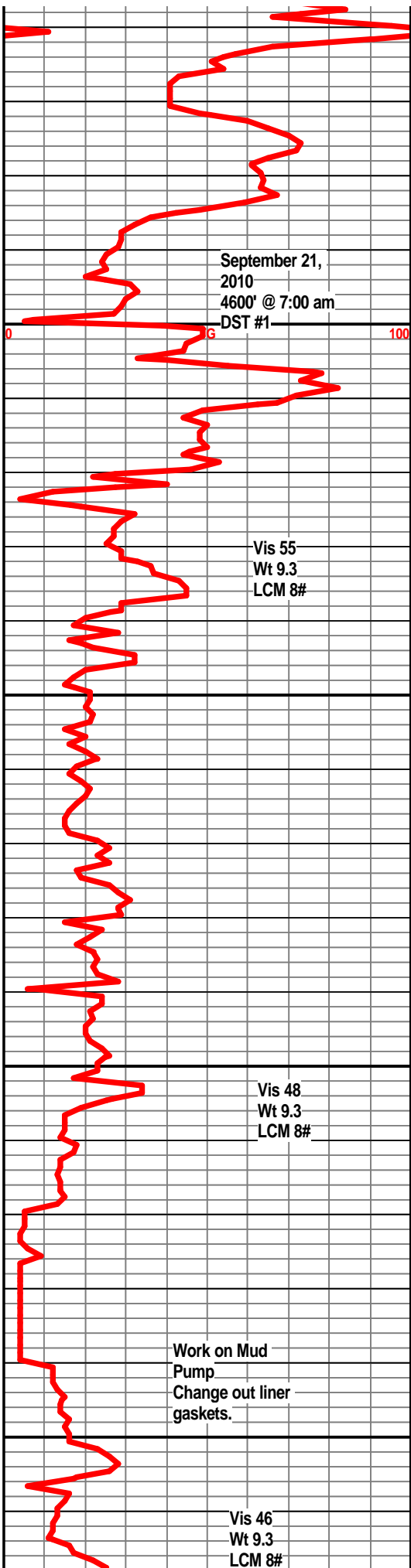
Dolo, grey-white, cream-white, xln, cherty.

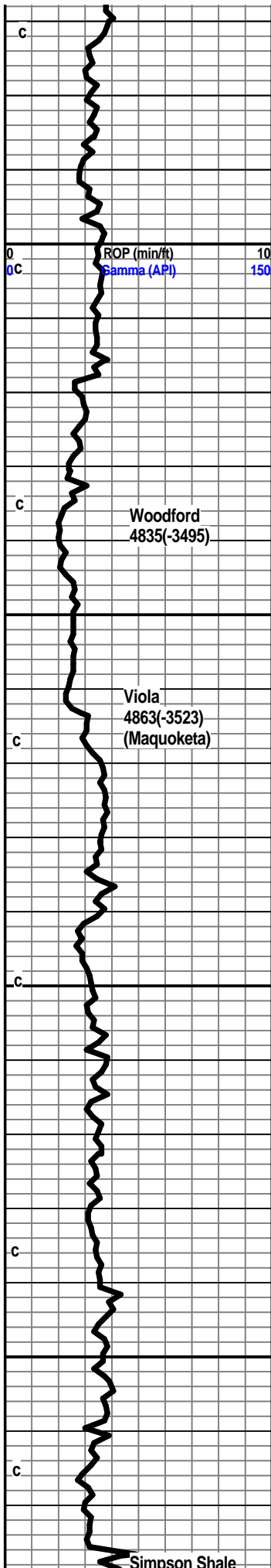
Dolo, grey, lt grey, cherty, traces of grey shale.

Shale, lt green.

LS, cream-white, fxln, trace of foss frags, slightly cherty.

Shale, grey, dk grey, blk, silty





Shale, grey, dk grey, blk, silty.

Shale, dk grey, grey, silty.

Shale, dk grey, grey silty, traces of pyrite.

Shale, grey, coffee brown, silty, traces of pyrite.

Shale, grey, lt grey, brown, silty, pyritic. trace gas bubbles.

Shale, Grey-black, brown, carb in part.

a/a

Shale, grey-black, brown, carb.

SST, dolomitic, sa, well cemented, very few clusters, no vis shows, no odor.

Dolo, lt brown, grey-white, xln, argil, silty, trace of chert, no vis shows.

Dolo as above, increasing ls amounts, xln.

Limestone, cream-white, off-white, xln, sl. dolo in part, soft, sl. foss. trace chert.

Limestone, cream-white, fxln, trace of xln porosity, sl. cherty, subchalky in part.

Limestone, off-white, tan, fxln, subchalky, trace tan chert, trace pyrite inclusions.

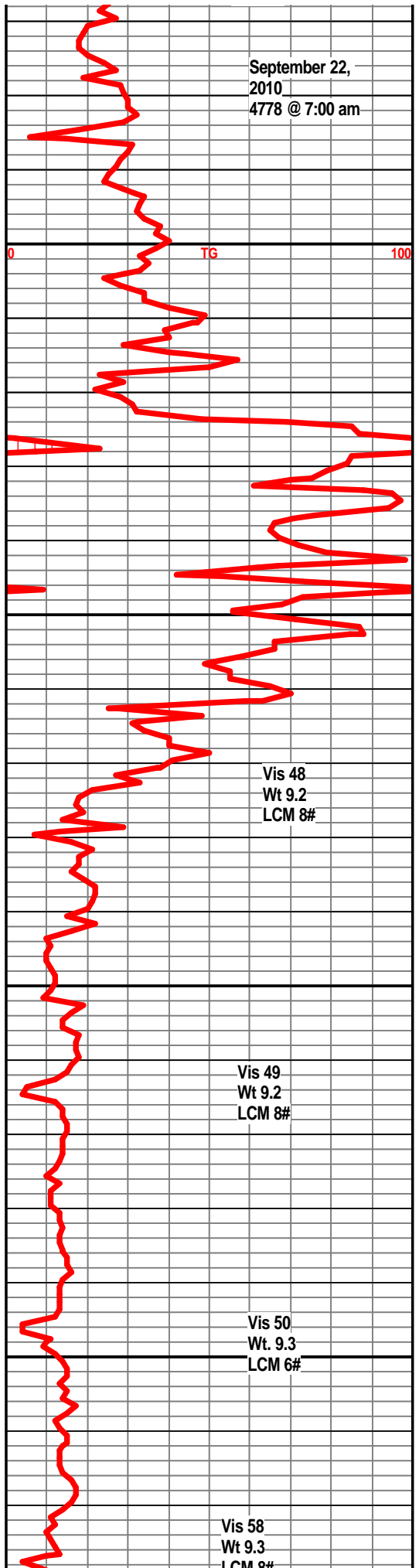
Limestone, tan-white, off-white, slightly dolo, tan cherts, chalky, xln.

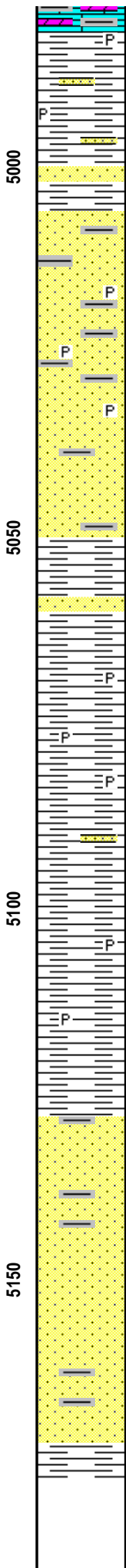
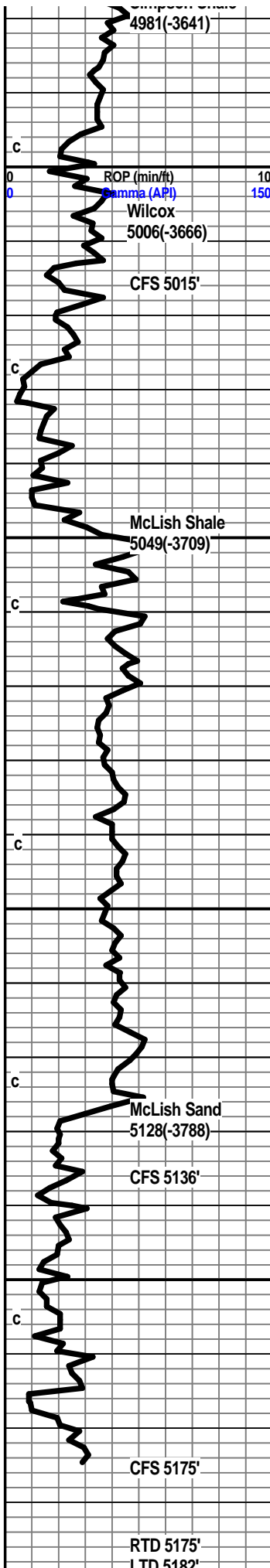
Limestone, dolo, tan, tan-white, xln, traces of tan cherts, trace foss.

Limestone, dolo, tan, off-white, xln, cherty, trace of pale green shales.

Dolo/ls, tan, tan-white, xln, grainy text, tan cherts, pale green shales.

Dolo, tan to tan-white, xln, sandy in part, some





green shales.

Shale, green to dk grey, pyritic, few imbedded sand grains.

Sst, clear to frosted quartz grains, SA to SR, friable, abundant lose grains, gluac, no vis shows. no odor.
Shale, green to dk grey-green.

Sst, clear to grey frosted grains, SA to SR, friable in part, mostly tite, spotted show of oil in tite sd, traces of pyrite inclusions, no odor no fluor, no kick

Sst. clear to white frosted qtz grains, SA to SR, friable in part, fair sorting, some shale inclusions w pyrite, gluac, some tite well cemented clusters, possible v. light stain in rare cluster, no odor, no visible fluor, no visible shows.

Sst, a/a

Shale, green, firm, banded, few embedded sand grains.

Sst, clear to grey, well cemented, shaley in part.

Shale, grey-green, apple green, traces of pyrite, waxey, firm, blk.

Shale, grey-green, firm, traces of pyrite, same sand inclusions.

a/a, sst stringer.

Shale, grey-green, firm, pyritic inclusions.

Shale, grey, pale green, firm, blk.

Sst, clear to grey angular grains, well cemented, traces of pyrite, gluac, some shale inclusions, no visible shows, no detectable odor.

Sst., clear to white, some grey frosted angular grains, well cemented, gluac., traces of interbedded shales, pyrite, no visible shows.

Sst., clear to grey, angular to sub rounded, well cemented, few pieces friable in part, gluac, pyritic in part, gray-green shales, no visible shows.

Shale, grey-green, firm, sand inclusions.

