



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1197644
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: _____

1197644

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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ALLIED OIL & GAS SERVICES, LLC 059847

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge #10

DATE <i>12-03-13</i>	SEC. <i>07</i>	TWP. <i>35S</i>	RANGE <i>12W</i>	CALLED OUT <i>7:00 PM</i>	ON LOCATION <i>9:00 AM</i>	JOB START <i>10:30 AM</i>	JOB FINISH <i>11:30 AM</i>
LEASE <i>R egg</i>		WELL # <i>1</i>		LOCATION <i>Hondmarks 1 1/2 W s/s</i>		COUNTY <i>Barber</i>	STATE <i>KS</i>
OLD OR NEW (Circle one)							

CONTRACTOR *Fossil #* OWNER *Woolsey*

TYPE OF JOB *Surface*

HOLE SIZE *17 1/2* T.D. *221* CEMENT AMOUNT ORDERED *300sx class A + 3% cut*

CASING SIZE *13 3/8* 48" DEPTH *207 + 15' 8 1/2* TUBING SIZE DEPTH *2 1/2 gal*

DRILL PIPE DEPTH
TOOL DEPTH

PRES. MAX *200 test + 1500#* MINIMUM
MEAS. LINE SHOE JOINT *N/A*

CEMENT LEFT IN CSG. *20'*

PERFS.
DISPLACEMENT *30 Bbls Fresh H₂O*

EQUIPMENT

PUMP TRUCK CEMENTER *D Felio*
471-265 HELPER *Justin Bower*

BULK TRUCK
356- DRIVER *Nathan Joseph (Temp)*

BULK TRUCK
DRIVER

COMMON	<i>Class A 300sx @ 17.90</i>	<i>5370.00</i>
POZMIX	@	
GEL	<i>6 SK @ 23.40</i>	<i>140.40</i>
CHLORIDE	<i>11 SK @ 64.00</i>	<i>704.00</i>
ASC	@	

WELL FILE

- Regulatory Correspondence @
- Workovers @
- Operations @
- Tests / Meters @

HANDLING	<i>325 @ 2.48</i>	<i>806.00</i>
MILEAGE	<i>14.80 / 25 / 2.60</i>	<i>962.32</i>

TOTAL *7982.72*

REMARKS:

Pipeon Btm, Break Line, Pump Spacer, Pressure test, Mix 300sx class A 3 1/2 cement, Start Dip w/ Fresh H₂O, See an increase in Pst, Slow Rate, Stop Pump at 30 Bbls total Disp., Shut in, cement did circ.

SERVICE

DEPTH OF JOB *221'*
PUMP TRUCK CHARGE *1512.25*

EXTRA FOOTAGE @
MILEAGE *25 @ 7.70* *192.50*

MANIFOLD *N/A @ N/A*
Light Vehicle 25 @ 4.40 *110.00*

TOTAL *1815.25*

DEC 30 2013

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

PLUG & FLOAT EQUIPMENT

<i>1- cement Basket</i>	@	<i>773.37</i>
	@	
	@	
	@	

TOTAL *773.37*

SALES TAX (If Any) _____
TOTAL CHARGES *10,571.34*

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *MIKE THARD*

SIGNATURE *[Signature]*

NET 8121.84

13 3/8

ALLIED OIL & GAS SERVICES, LLC 062360

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>12/14/13</u>	SEC. <u>7</u>	TWP. <u>35S</u>	RANGE <u>12W</u>	CALLED OUT <u>7:30 AM</u>	ON LOCATION <u>12:30 PM</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>Rugg</u>		WELL # <u>1</u>	LOCATION <u>Hurdner KS, 1/2 mi West, South</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		into					

CONTRACTOR Fossil
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5560
 CASING SIZE 5 1/2 DEPTH 5423
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1500 MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 45'
 CEMENT LEFT IN CSG. 45'
 PERFS. _____
 DISPLACEMENT 12 9 1/2 BBLs Fresh H₂O + 2% KCL

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 90 sx 60:40:4% Gel, 125 sx Class H + 10% Gypseal + 10% Salt + 6# Kolseal + 8% FL-160 + 4# Floseal

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thimesch
 # 471/265 HELPER Justin Bower
 BULK TRUCK
 # 364 DRIVER Scott Priddy
 BULK TRUCK
 # _____ DRIVER _____

COMMON <u>Class A 54 sx @ 17.90</u>	<u>966.60</u>
POZMIX <u>36 sx @ 9.35</u>	<u>336.60</u>
GEL <u>3 sx @ 23.40</u>	<u>70.20</u>
CHLORIDE _____ @ _____	
ASC _____ @ _____	
Common Class H <u>125 @ 21.20</u>	<u>2650.00</u>
SALT <u>13 sx @ 26.35</u>	<u>342.55</u>
Kolseal <u>750# @ .98</u>	<u>735.00</u>
Gypseal <u>23 sx @ 37.60</u>	<u>864.80</u>
Floseal <u>32# @ 2.97</u>	<u>95.04</u>
FL-160 <u>94# @ 18.90</u>	<u>1776.60</u>
KCL <u>13 Gals @ 34.40</u>	<u>447.20</u>
_____ @ _____	
HANDLING <u>265 cuft @ 2.48</u>	<u>657.20</u>
MILEAGE <u>11.31 tonix mix @ 2.60</u>	<u>735.15</u>
TOTAL	<u>9676.94</u>

REMARKS:

Safety meeting, Press Test, Plug RH/MH, Pump Scavenger cement, Pump TL cement, Release Plug, Disp 4 1/2% KCL Water, Slow to Bump Plug, Bump Plug, Release, Plug/Float Did hold

SERVICE

DEPTH OF JOB <u>5423</u>	
PUMP TRUCK CHARGE _____	<u>2765.15</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>25 mi @ 7.70</u>	<u>192.50</u>
MANIFOLD <u>± Head @ 275.00</u>	<u>275.00</u>
LV <u>25 @ 4.40</u>	<u>110.00</u>
_____ @ _____	

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

TOTAL 3342.65

Regulatory Correspondence
 Drig / Comp Workovers
 Tests / Meters Operations

To: Allied Oil & Gas Services, 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.

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>	
Turbalizers <u>11 @ 93.60</u>	<u>1029.60</u>
Scratchers <u>20 @ 88.92</u>	<u>1778.40</u>
Basket <u>1 @ 394.29</u>	<u>394.29</u>
Latch down Plug <u>1 @ 324.09</u>	<u>324.09</u>
AFU Float Shoe <u>1 @ 408.33</u>	<u>408.33</u>

TOTAL 3934.71

SALES TAX (If Any) _____
 TOTAL CHARGES 16,954.30
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME MIKE THARP

SIGNATURE Mike Tharp

(Net) 14,089.99

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

Fracture Date:	12/30/2013
County:	Barber County, KS
Operator Name:	Woolsey Operating
Well Name and Number:	Rogg #1
Total Base Fluid Volume (gal)*:	369900

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25%	0.0146661%
Plexsurf 580 ME	Chemplex	Product Stabilizer	Methyl Alcohol	67-56-1	10%	0.0025000%
Plexsurf 580 ME	Chemplex	Product Stabilizer	2-Butoxyethanol	111-76-2	50%	0.0125000%
Claymax	Chemplex	Clay Stabilizer	No hazardous ingredient			
Plexcide B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	5%	0.0002500%
Plexcide B7	Chemplex	Biocide	Alkaline Bromide Salts	N/A		
Plexgel Breaker XPA	Chemplex	Breaker/Slickwater	Hydrogen Peroxide	7722-84-1	7%	0.0014189%
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50%	0.5000000%
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	0.6000000%
Frac Sand	Uniman	Propant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	26.4%
Plexgel 907L-EB	Chemplex	Gelling Agent	Hydrocarbons	68476-34-6	100%	
Plexgel Breaker 10L	Chemplex	Breaker/Gel	No hazardous ingredient	N/A		0.500000%



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.
125 N. Market Ste. 1000
Wichita, KS 67202-1729
ATTN: Bill Klaver

7-35s-12w. Barber Co.

Rogg #1

Job Ticket: 51858

DST#: 1

Test Start: 2013.12.09 @ 10:14:07

GENERAL INFORMATION:

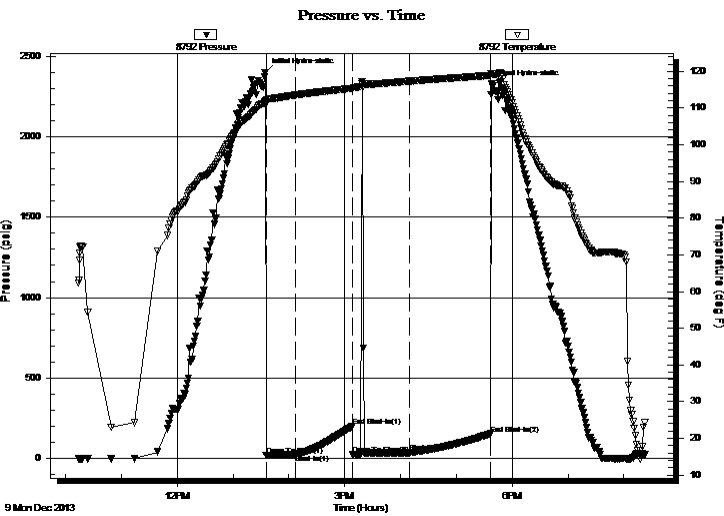
Formation: **Cherokee Sand**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 13:35:37
 Time Test Ended: 20:22:22
 Interval: **4756.00 ft (KB) To 4822.00 ft (KB) (TVD)**
 Total Depth: 4822.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 1466.00 ft (KB)
 1454.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8792

Outside

Press @ Run Depth: 36.51 psig @ 4757.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.09 End Date: 2013.12.09 Last Calib.: 2013.12.09
 Start Time: 10:14:12 End Time: 20:22:22 Time On Btm: 2013.12.09 @ 13:34:37
 Time Off Btm: 2013.12.09 @ 17:37:37

TEST COMMENT: IF: Weak blow . 1/4 - 1"
 IS: No blow
 FF: No blow (flshd tool 10" into.) Weak blow - dead @ 16min.
 FS: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2396.81	111.61	Initial Hydro-static
1	19.58	111.33	Open To Flow (1)
33	24.86	113.57	Shut-In(1)
94	199.16	115.39	End Shut-In(1)
94	27.22	115.39	Open To Flow (2)
156	36.51	117.35	Shut-In(2)
242	153.83	118.90	End Shut-In(2)
243	2325.77	119.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drig mud 100% mud	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC.

7-35s.-12w. Barber Co.

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Rogg #1

Job Ticket: 51858

DST#: 1

ATTN: Bill Klaver

Test Start: 2013.12.09 @ 10:14:07

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:

4000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Drig mud 100%mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

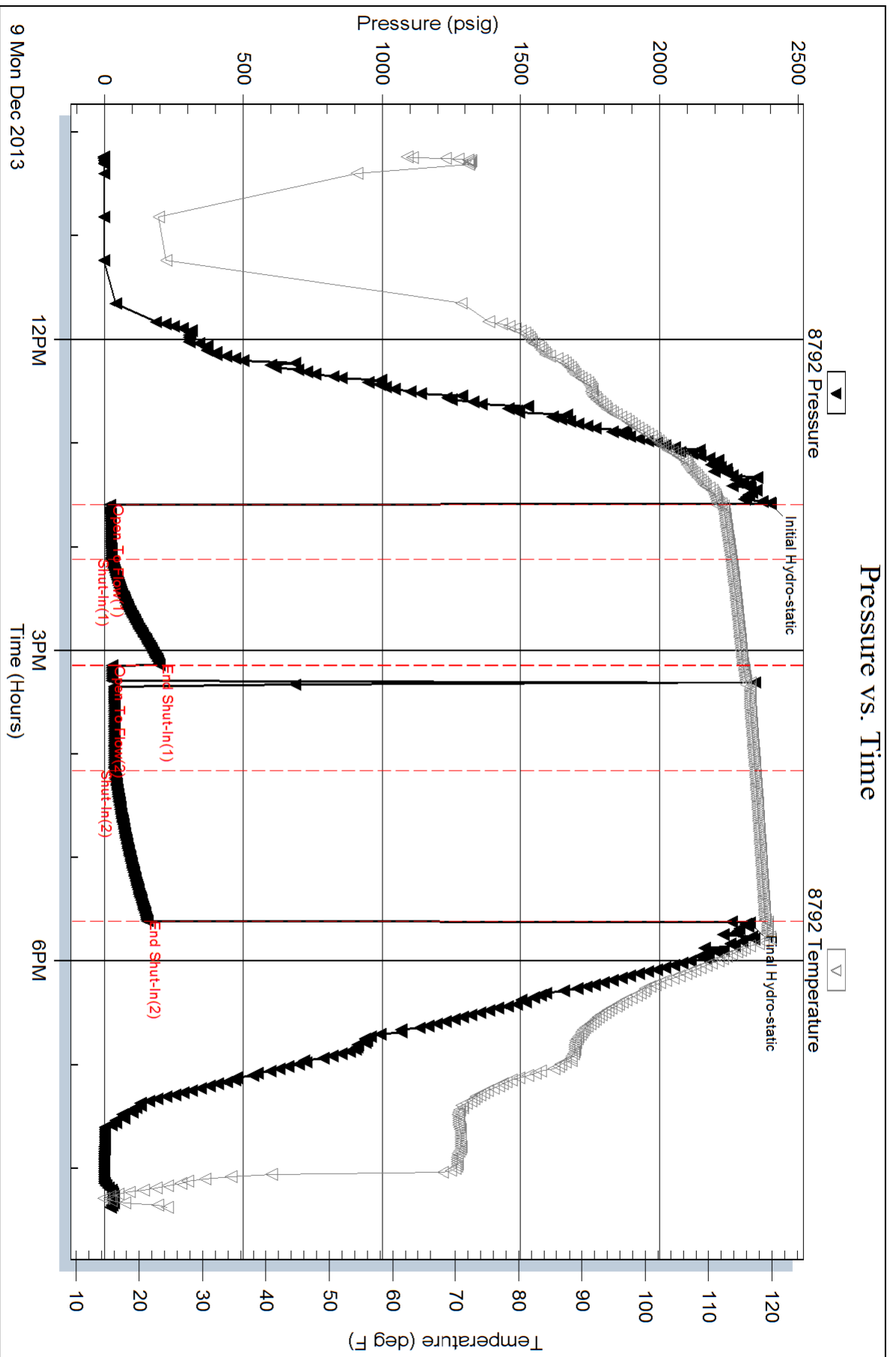
Num Gas Bombs: 0

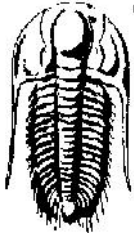
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.
 125 N. Market Ste. 1000
 Wichita, KS 67202-1729
 ATTN: Bill Klaver

7-35s.-12w. Barber Co.
Rogg #1
 Job Ticket: 51859 **DST#: 2**
 Test Start: 2013.12.10 @ 08:36:35

GENERAL INFORMATION:

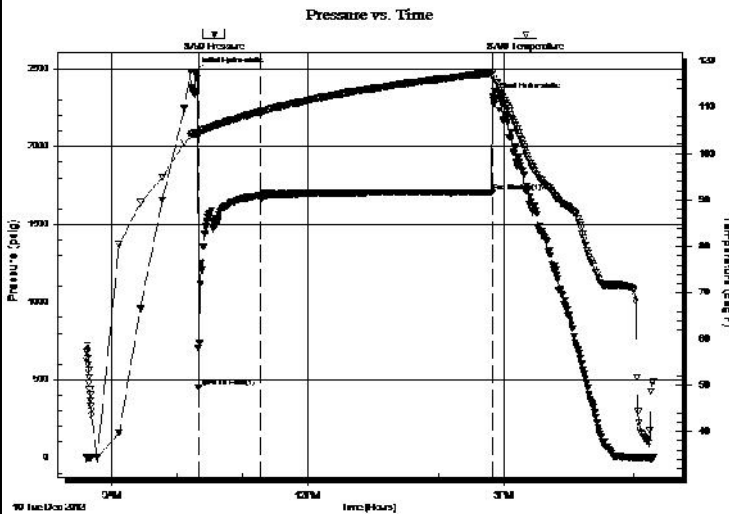
Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 10:19:50
 Time Test Ended: 17:17:20
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 48
 Interval: **4832.00 ft (KB) To 4880.00 ft (KB) (TVD)**
 Total Depth: 4880.00 ft (KB) (TVD)
 Reference Elevations: 1466.00 ft (KB)
 1454.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 12.00 ft

Serial #: 8790

Inside

Press@RunDepth: 1684.29 psig @ 4833.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.10 End Date: 2013.12.10 Last Calib.: 2013.12.10
 Start Time: 08:36:40 End Time: 17:17:20 Time On Btm: 2013.12.10 @ 10:17:05
 Time Off Btm: 2013.12.10 @ 14:50:05

TEST COMMENT: IF: Strong blow . BOB @ 30sec. No GTS.
 IS: Weak 1/4" bb
 FF: Weak blow . 1/4 - 1"
 FSI: No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2478.21	104.43	Initial Hydro-static
3	448.96	104.39	Open To Flow (1)
60	1684.29	109.06	Shut-In(1)
273	1708.07	117.42	End Shut-In(1)
273	2319.70	117.68	Final Hydro-static

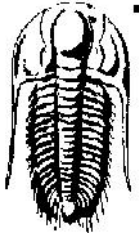
Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 2%oil, 98%mud	0.07
0.00	60' GIP (Hvy spkd MO in hyd. tool)	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper. Co. LLC.

7-35s.-12w. Barber Co.

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Rogg #1

Job Ticket: 51859

DST#: 2

ATTN: Bill Klaver

Test Start: 2013.12.10 @ 08:36:35

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:

4000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	OCM 2%oil, 98%mud	0.074
0.00	60' GIP (Hvy spkd MO in hyd. tool)	0.000

Total Length: 15.00ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Tool plugged during initial flow

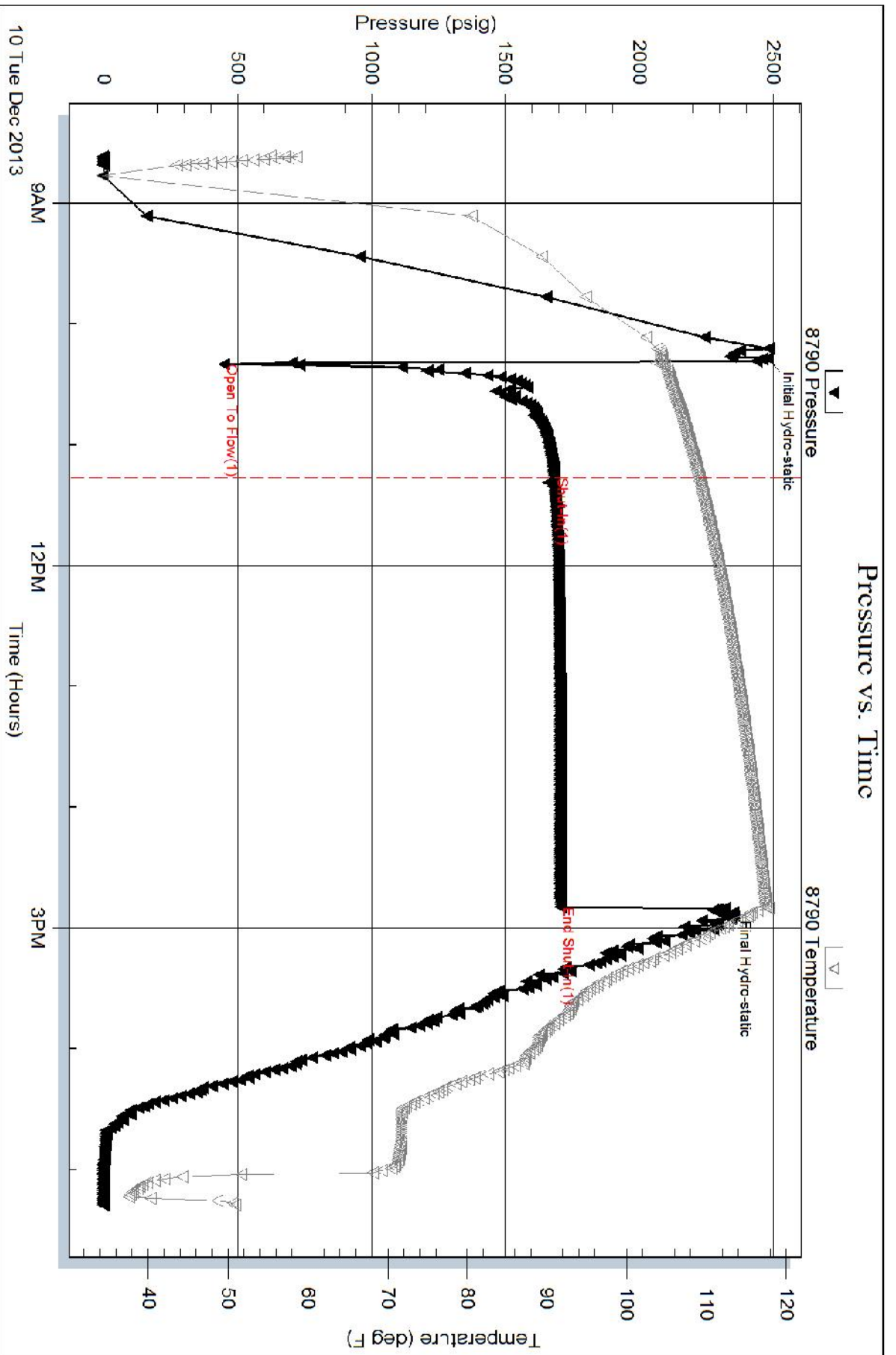
Serial #: 8790

Inside

Woolsey Oper. Co. LLC.

Rogg #1

DST Test Number: 2

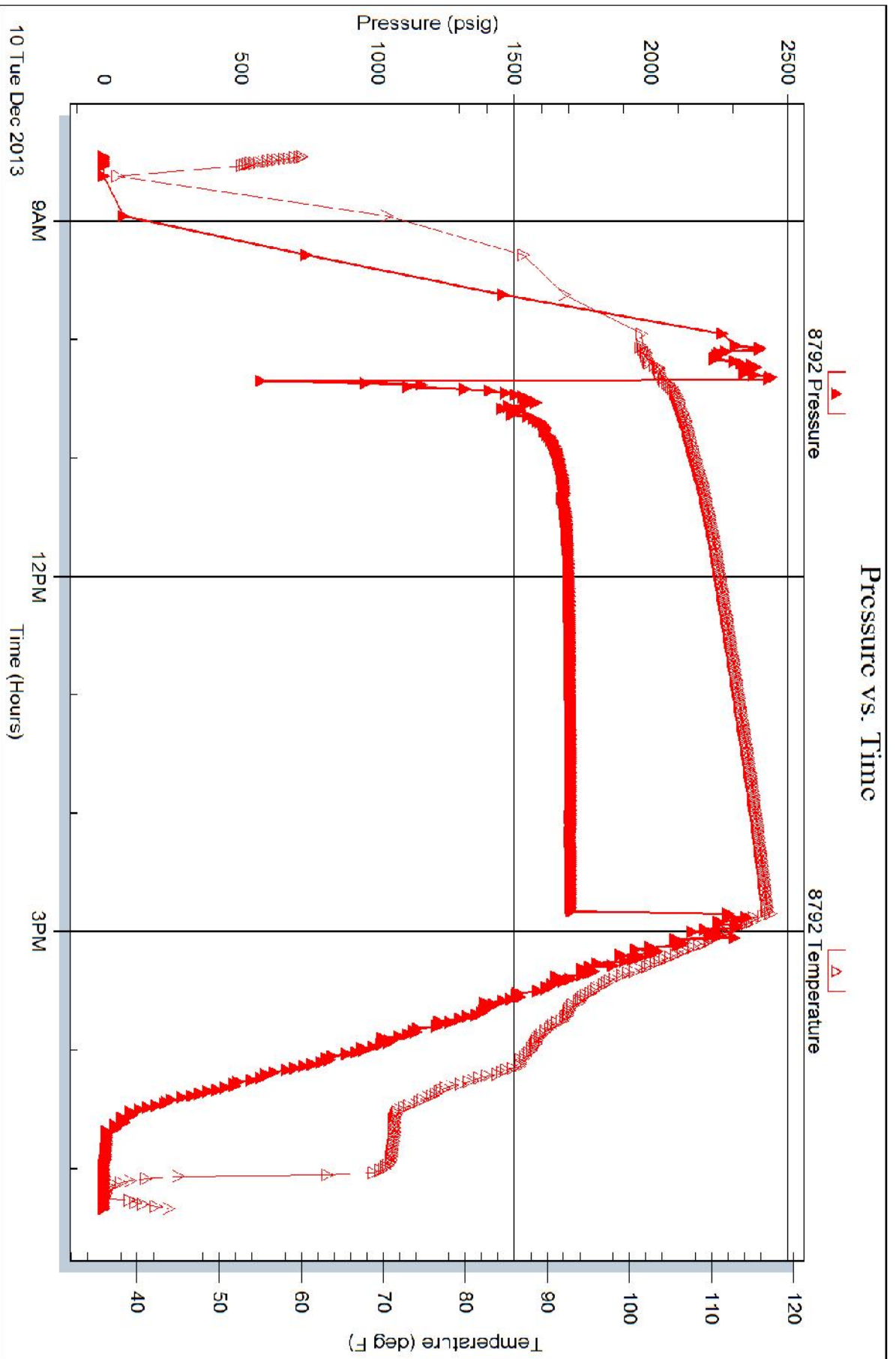


Serial #: 8792

Outside Woolsey Oper. Co. LLC

Rogg #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51859

Printed: 2013.12.10 @ 20:05:26



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: **ROGG #1**
Location: **Section 7 - Township 35 South - Range 12 West**
License Number: **15-007-24109-0000** Region: **Barber County, Kansas**
Spud Date: **December 3, 2013** Drilling Completed: **December 14, 2013**
Surface Coordinates: **N 1/2 N 1/2 NW 1/4**
2310' FSL & 1320' FWL
Bottom Hole
Coordinates:
Ground Elevation (ft): **1454'** K.B. Elevation (ft): **1466'**
Logged Interval (ft): **3600'** To: **5560'** Total Depth (ft): **5560'**
Formation: **Kansas City Group ----> Simpson Group**
Type of Drilling Fluid: **Chemical Mud Displaced at 3434'**
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: **Bill Klaver, Blake Miller**
Company: **Woolsey Operating Co. LLC**
Address: **125 N. Market, Wichita Kansas, 67202**

COMMENTS

Surface Casing: Spud at 3:00 pm on December 3, 2013, ran 5 joints of new 13 3/8" X 48#/ft casing to 221' KB (tally 207') with 300 sx Class A, 2% gel, 3% cc. Plug down at 11 pm on December 3, 2013. Cement did circulate. Production Casing: 5 1/2" X 15.5#/ft set at 5412' with 175 sx.

Deviation Surveys: 1 at 223', 3/4 at 1023', 1/2 at 1530', 3/4 at 2133', 1 at 2641', 1 at 3117', 3/4 at 3625', 1 at 4134', 3/4 at 4641', 3/4 at 4822'. 1 at 5560'.

Pipe Strap @ 4822'. Strap: 4832.47', Board: 4831.77'. Strap .70' long, no correction made to the board.

Fossil Drilling Rig 3 Bit Record:

- 1) 17 1/2" Reed RT RR in at 0' out at 223'. 221'/2.5 hours
- 2) 7 7/8" Varel HE-21 in at 221' out at 4822'. 4601'/91 3/4 hrs
- 3) 7 7/8" Varel HE-29 RT RR in at 4822', out at 5560'

Gas Detector: Woolsey Operating Co, Gas Trailer #2

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

DSTs: Trilobite Testing, Ryan Reynolds, Tester

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

DSTs

DST #1 Cherokee Sand, 4756'-4822'. 30"-60"-60"-90", Weak blow building to 1" during IFP. FFP weak blow died, flush tool-no help. Rec: 20' Drilling mud. IHP 2396, IFP 19-24, ISIP 199, FFP 27-36, FSIP 153, FHP 2325. BHT 119 Degrees

DST #2 Mississippian, 4832'-4880'. 30"-60"-60"-120", SB BOB upon tool opening at IFP. Weak 1" blow throughout FFP. Rec: 60' GIP, 15' OCM (2% Oil, 98% Mud). Test declared a misrun, tool failure. Tool did not cycle.

CREWS

Jim Wenrich, Tool Pusher

Daniel Orrantea, Days

Ron Burns, Evening

Andres Maestas, Morning

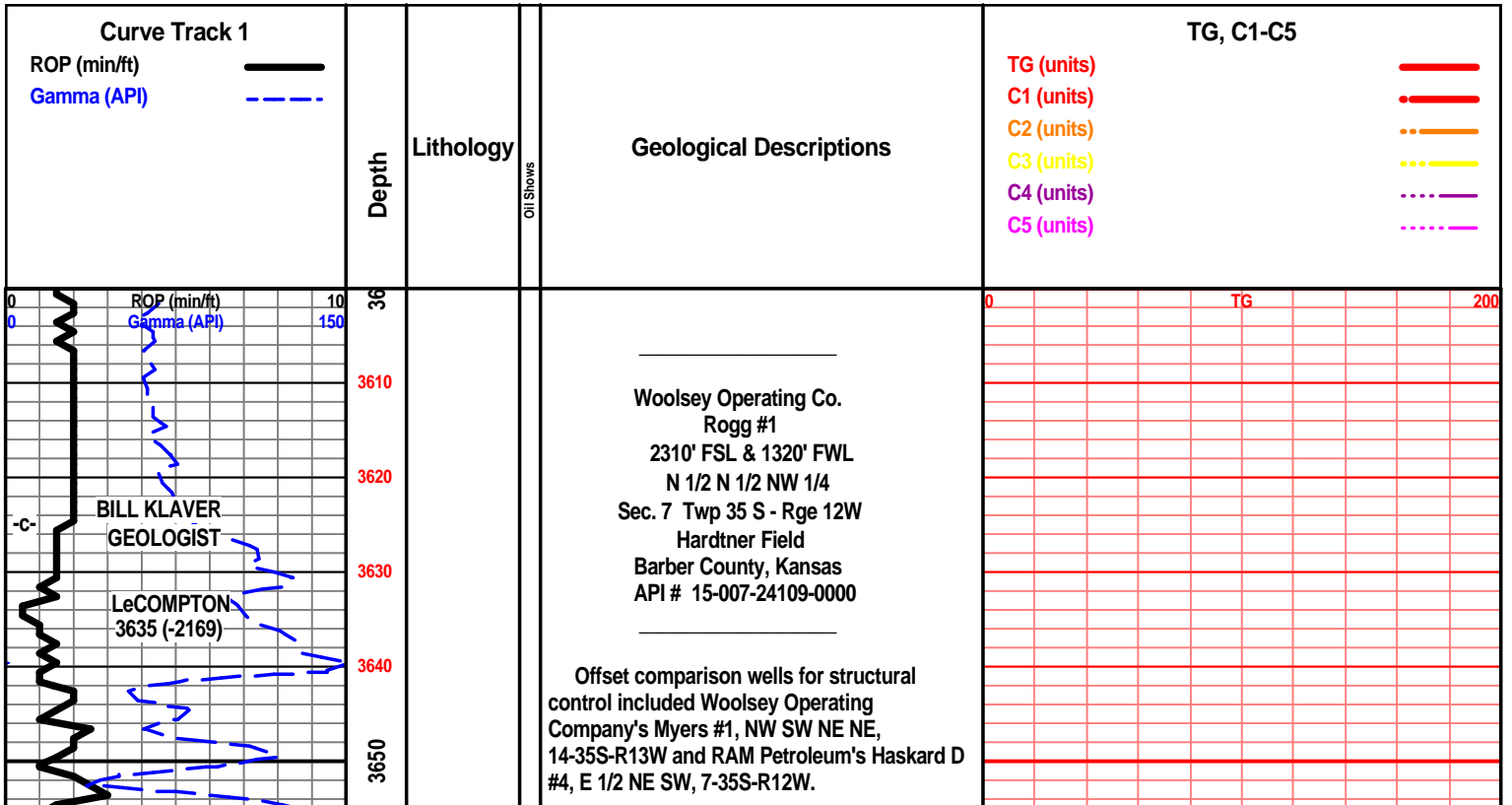
Terry Christenson, Relief

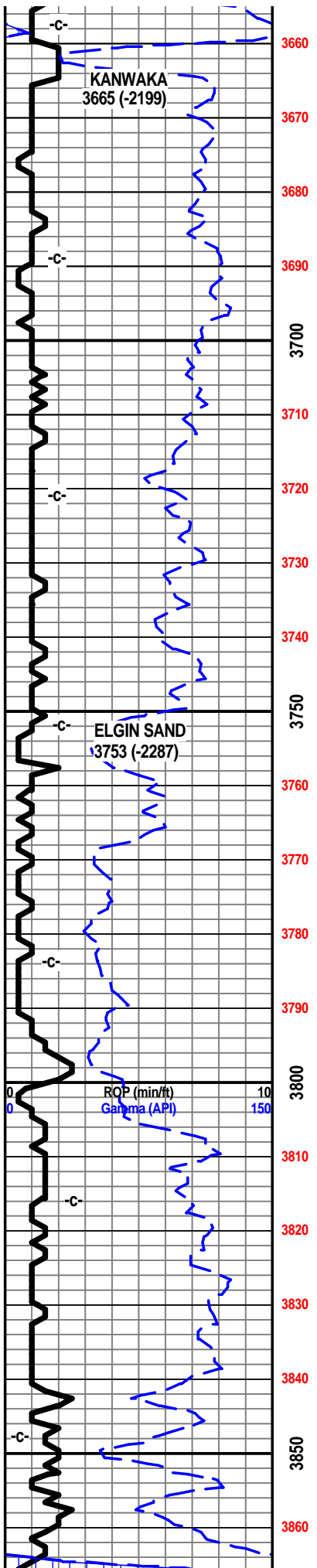
ROCK TYPES

	Anhy		Shy dolo		Sltst		Shale 3
	Bent		Dol		Ss		Silty dol
	Brec		Gyp		Black sh		Dol lmst
	Cht		Sdy lmst		Gry sh		Dol 2
	Clyst		Lmst		Shale		Granite wash
	Coal		Mrlst		Shyslts		Lmst
	Congl		Salt		Sltys		Calc dol
	Sdy dolo		Shale		Ss 2		Shale 3

ACCESSORIES

MINERAL		Chlorite		Pelec		Grysh	
	Anhy		Dol		Gryslt		
	Arg		Sand		Lms		
	Bent		Silty		Sandylms		
	Bit				Sh		
	Brecfrag	FOSSIL		Strom		Sltstn	
	Calc		Algae		Fuss		
	Carb		Amph		Oomoldic	TEXTURE	
	Chtdk		Belm	STRINGER		Boundst	
	Chtlt		Bioclst		Anhy		Chalky
	Dol		Brach		Arg		Cryxln
	Ferrpel		Bryozoa		Bent		Earthy
	Ferr		Cephal		Coal		Finexln
	Glau		Coral		Dol		Grainst
	Gyp		Crin		Gyp		Lithogr
	Marl		Echin		Ls		Microxln
	Nodule		Fish		Mrst		Mudst
	Phos		Foram		Sltstrg		Packst
	Pyr		Fossil		Ssstrg		Wackest
	Salt		Gastro		Carbsh		
	Sandy		Oolite		Clystn		
	Silt		Ostra		Dol		





One minute drill time was recorded from 3600' to rotary total depth. Ten foot and circulating samples were gathered from 4500' to rotary total depth. All samples were delivered to the Survey at the completion of the test.

7 am progress:

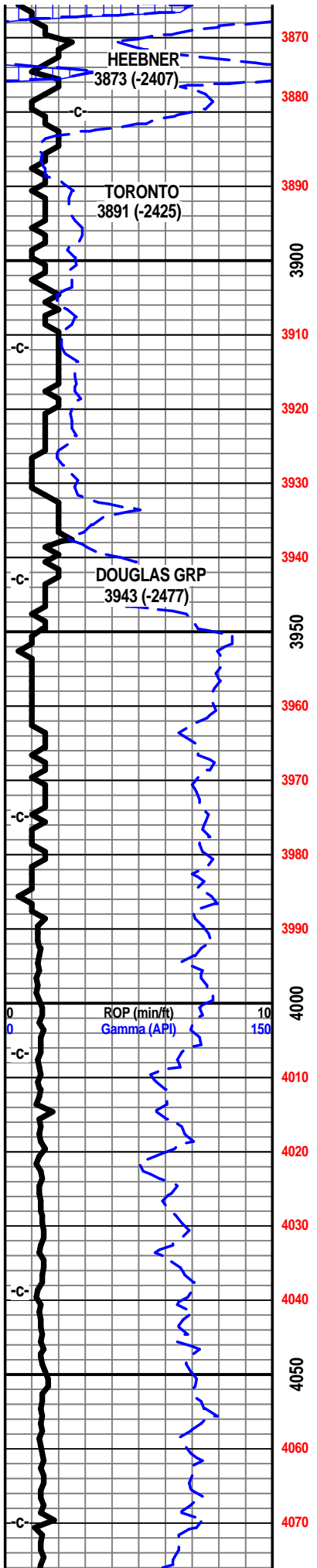
- December 3, 2013 MIRT/SPUD
- December 4, 2013 WOC.
- December 5, 2013 Drilling at 1865'
- December 6, 2013 Drilling at 2815'
- December 7, 2013 Drilling at 3600'
- December 8, 2013 Drilling at 4395'
- December 9, 2013 CFS at 4822' Cke Sd
- December 10, 2013 TOOH DST #2 @ 4880'
- December 11, 2013 Lost returns at 4949'
- December 12, 2013 Drilling at 5200'
- December 13, 2013 CFS @ 5470'
- December 14, 2013 E-logs out @ 5 am

Mud Co. 3690'
wt. 8.7 vis. 50
wl. 8 chl. 2,000

E- Logs Tops:

- Herington 1956 (-490)
- Onaga 2845 (-1379)
- Wabaunsee 2899 (-1433)
- LeCompton 3638 (-2172)
- Kanwaka 3660 (-2194)
- Elgin Sand 3748 (-2282)
- Heebner 3869 (-2403)
- Toronto 3879 (-2413)
- Douglas Grp 3944 (-2478)
- Douglas Shale 4033 (-2567)
- Brown Lime 4144 (-2678)
- Stalnaker 4233 (-2767)
- Quindaro 4378 (-2912)
- Kansas City 'F' 4396 (-2930)
- Kansas City 'G' (Iola) 4439 (-3026)
- Kansas City 'H' (Drum) 4492 (-3026)
- Kansas City 'I' (Dennis) 4525 (-3059)
- Stark Shale 4566 (-3100)
- Kansas City 'J' (Swope) 4575 (-3109)
- Hushpuckney Shale 4595 (-3109)
- Kansas City 'K' (Hertha) 4609 (-3143)
- B/Kansas City 4642 (-3176)
- Pawnee 4737 (-3271)
- Cherokee Group 4784 (-3318)
- Cherokee Sand 4805 (-3339)
- Mississippian Unc. 4826 (-3360)
- C3 4826 (-3360)
- C2A 4832 (-3366)
- C2 4885 (-3419)
- C1 4910 (-3444)
- Osage 4981 (-3515)
- Northview Shale 5147 (-3681)
- Compton 5169 (-3703)
- Kinderhook 5196 (-3730)
- Woodford 5264 (-3798)
- Misener 5304 (-3838)

0 TG 200



Viola 5318 (-3852)
 Simpson Group 5445 (-3979)
 Simpson 'F' 5448 (-3982)
 Wilcox 5462 (-3996)
 McLish Shale 5520 (-4054)
 LTD 5560 (-4094)

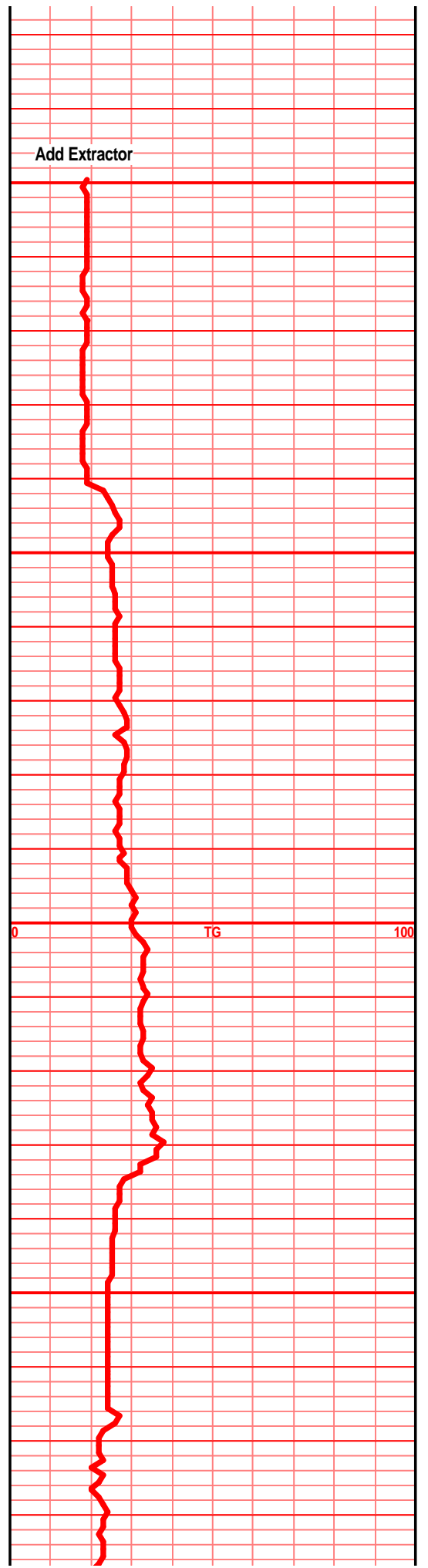
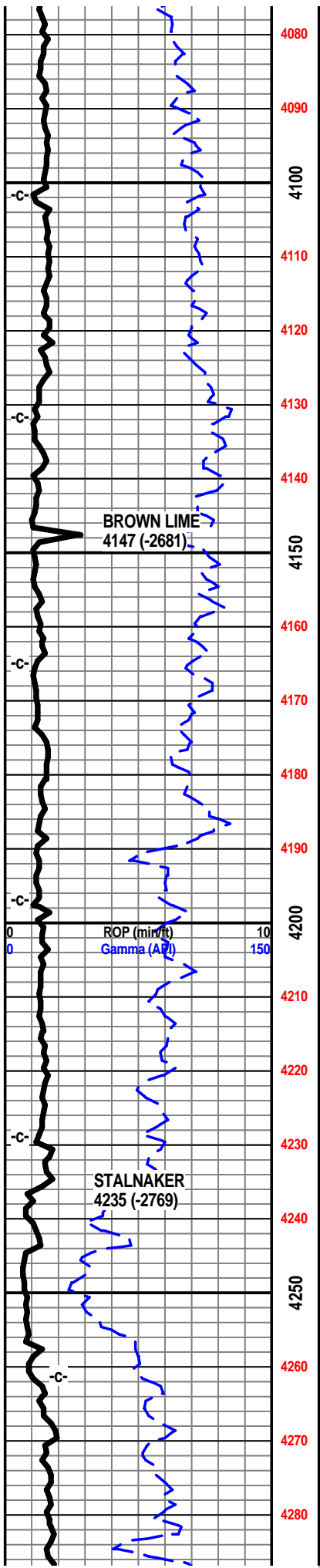
Oil and Gas Show Legend

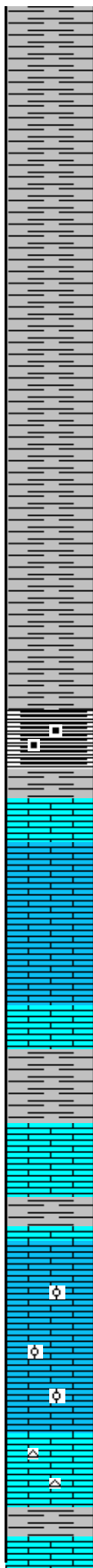
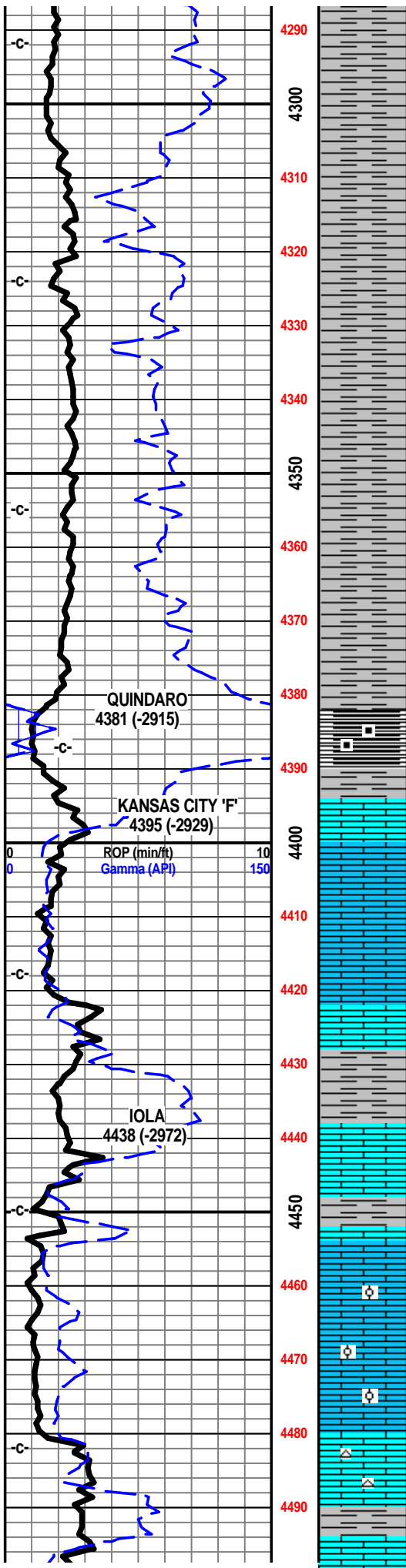
- ⊗ Gas
- Even Stain/Saturation
- ◐ Spotted Stain/Saturation
- Questionable Shows
- ◻ Dead/Gilsonitic

Driller/Tooke
 3990'

Scale Change
 TG

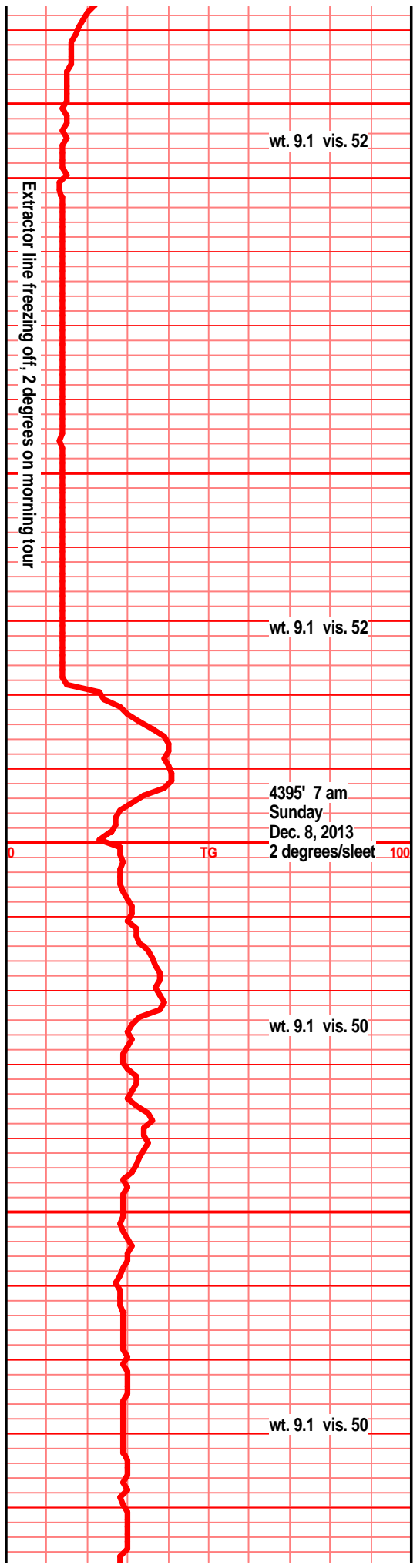
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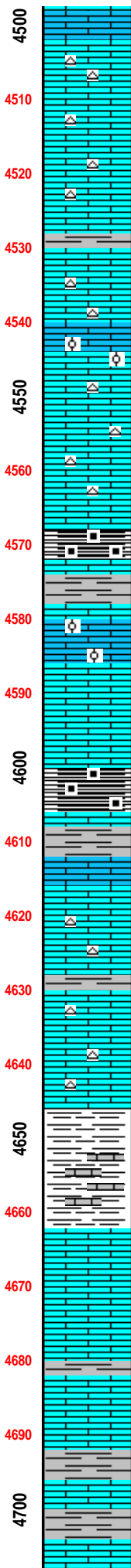
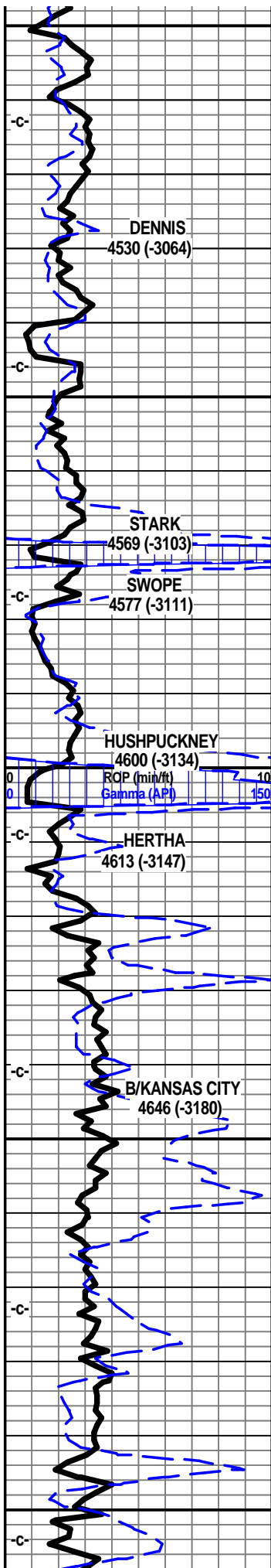




lst tan crm off wth f sli med xln gran blkly ang
sub chlky, foss frags, pp foss mold por, tr chrt
lt gry shrp frsh opa

lst tan gry f vf xln dns drn blkly ang foss, lst off





4500 wht tan f xln blkly ang gran soft sub chlky, foss frags, tr lt gry shrp chrt

4510 Ist crm tan off wht f sli med xln, blkly ang dns, foss frags, pp por, calc xln fill, pp, foss mold por

4520 Ist crm buff tan f xln blkly ang dns, sli sub chlky, foss frags, calc xln fill, chrt lt gry shrp frsh opa

4530 Ist tan buff off wht f xln dns hrd blkly ang pcs, foss frags, micro foss frags, sli sub chlky, chrt tan lt gry shrp frsh opa

4540 Ist tan cm f vf xln gran blkly ang dns hrd, foss frags, micro foss frags, calc xln fill, chrt tan gry shrp frsh opa

4550

4560 Ist crm tan lt tan brn f sli med xln, gran blkly, foss frags, moldic por, inter xln por, calc xln fill, chrt tan brn shrp frsh opa

4570 shl gry dkr gry blk, blk carb, wxy grsy text, Ist tan crm lt gry f vf xln blkly ang dns hrd, foss frags, tr foss mold por

4580 Ist crm tan buff f sli med xln blkly ang sub chlky foss frags, foss ool, pp inter xln por, tr some soft chlky

4590 Ist crm tan tr lt gry f tr vf xln dns hrd blkly ang foss frags, foss ool, chrt tan lt gry shrp frsh opa, much dns calc xln fill

4600 shl drk gry blk, blk cab, wxy grsy text, blkly ang pcs, abun gas bubs, Ist aa

4610 Ist crm buff tan f sli med xln blkly ang tr sub chlky, foss frags, foss ool, foss mold por, pp por,

4620 Ist crm tan lt gry/brn f xln blkly ang dns hrd, foss frags, tr sub chlky, chrt lt gry shrp frsh foss,

4630

4640 Ist crm tan lt gry f xln blkly ang dns hrd, foss frags, tr sub chlky mstly dns hrd, chrt tan lt gry shrp frsh foss,

4650 Ist aa, shls gry green brn drk red/brn silty calc, tr gritty,

4660 shl gry green, brn red gry, drk red/brn slick, silty, grsy, calc in prt, gritty limy

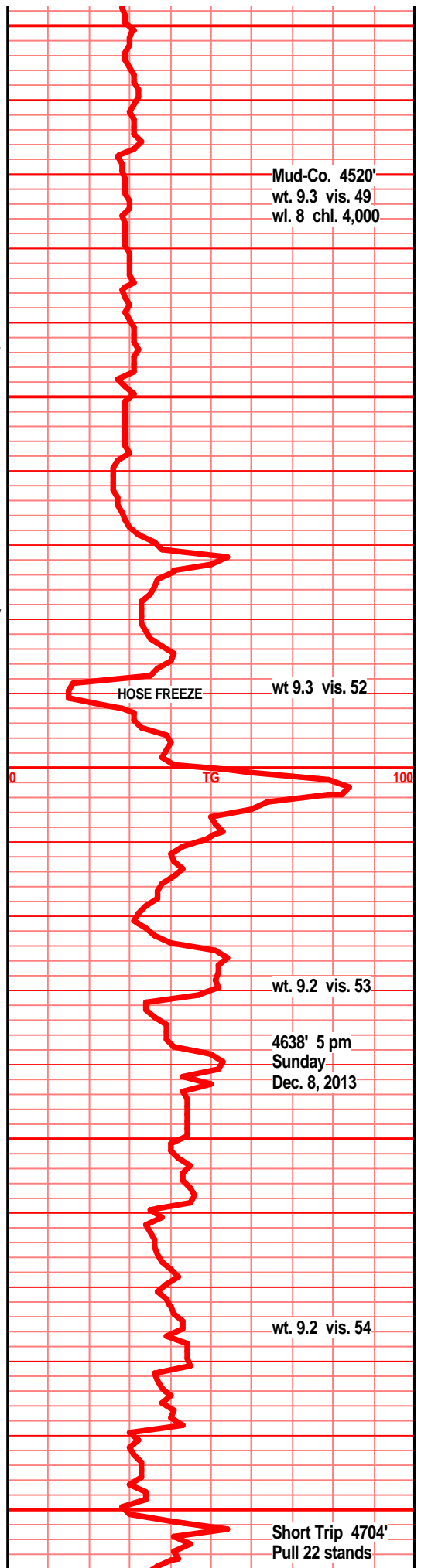
4670 Ist crm buff lt tan f vf xln blkly ang dns hrd, micro foss frags, tr micro sub chlky,

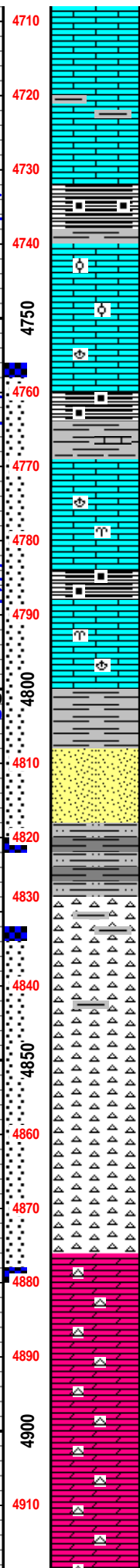
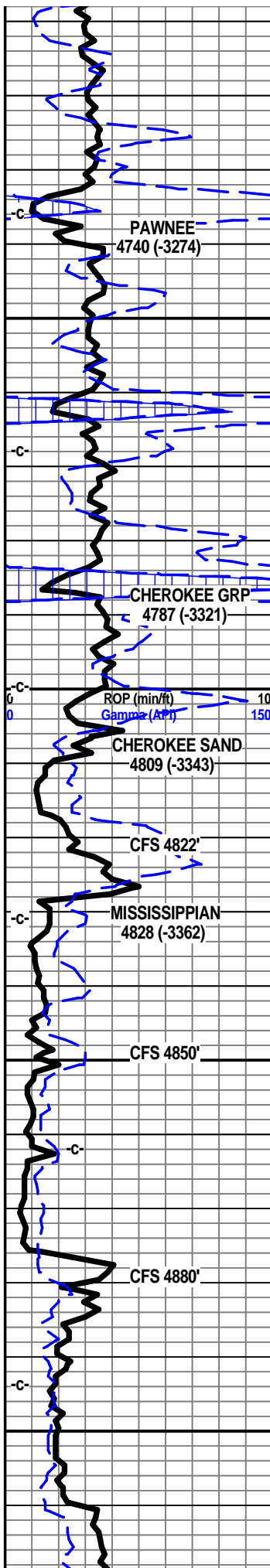
4680 Ist crm buff lt tan f vf xln dns hrd blkly ang pcs, tr sub chlky, micro foss frags, calc xln fill,

4690 Ist buff tan crm f vf xln dns hrd blkly ang, sub chlky in prt, mstly dns, calc xln fill, micro foss frags,

4700 shl gry drk med gry, silty, cacl, Ist tan buff f xln blkly ang dns hrd, micro foss

shl lt gry silty gritty, calc, Ist tan buff crm, f sli vf xln blkly ang, sub chlky in prt micro foss





frags, cal xln fill

lst crm buff f vf xln blk ang hrd, micro foss frags, micro ool/pelletal, calc xln fill, tr vry sli chlky

lst buff crm f vf xln blk ang dns hrd, micro foss, foss ool, pelletal, calc xln fill, sli chlky,

shl drk gry/blk, blk carb in prt, blkly ang pcs, sli wxy grsy text, tr gas bubs,

lst crm semi buff/tan f tr vfn xln blkly ang dns, hrd, tr sub chlky foss frags, micro ool/pelletal, tr inter xln por, mstly calc xln fill NS

lst crm buff off wht f vf xln dns hrd blkly ang pcs, micro foss, foss ool/pelletal, calc xln fill, sli sub chlky in prt

shl gry dkr gry blk blk carb in prt, wxy grsy text, tr vis gas bubs,

lst crm tan buff f xln blkly ang dns hrd pcs, tr sub chlky micro foss frags, calc xln fill,

shl gry blk, drk gry/blk, blk carb wxy grsy text, tr gas bubs, lst tan crm buff f xln ang dns hrd, micro foss frags, ool/pelletal, calc xln fill

lst gry tan crm f xln dns hrd, sli arg, foss frags, micro ool/pelletal, tr sub chlky

shl gry med gry silty gritty, soft

sst vry drk tan, brn clstrs, f vf grnd, ang/sub ang grns, w/srtd, poorly to fair cem, fria to sub fria, mstly soft crumbly to vry fria, inter grain por, gd/strong odor, gd SFO, gd stain, fair UV, bleeding oil with gas bubs, floating drops in tray.

shl gry grn silty gritty, shls drk blue green, slick wxy, grsy text, silty gritty

chrt wht, bone wht, tan, tr orange, lt yellow, shrp frsh semi opa, blkly ang pcs, w/sli trace edge stain, chrt off wht crm brn, shrp frsh w/weath trip text edge, pp moldic por, drk brn/grsy blk stain, drk brn/blk SFO, gas bubs, fair/good odor. chrt drk gry/blue brn mottled, w/weath sli trip text, pp moldic por, drk brn oil stained, drk SFO, "spitting" gas in some. chrt wht off wht shrp frsh w/weath gran sli trip text edge, drk brn stained, SFO, gas bubs,

chrt wht off wht shrp frsh sub opa, blkly ang pcs w/tan brn drk brn mott weath trip text edges/sides, gd vis vug, pp, moldic por, drk tan brn stained weath por, fair/gd SFO, gd gas bubs, filmy RBSFO on spl water, gd odor in all, chrt drk gry/blue mottled w/weath trip text edge/side, gd vug moldic por, drk brn stain, SFO, gas bubs.

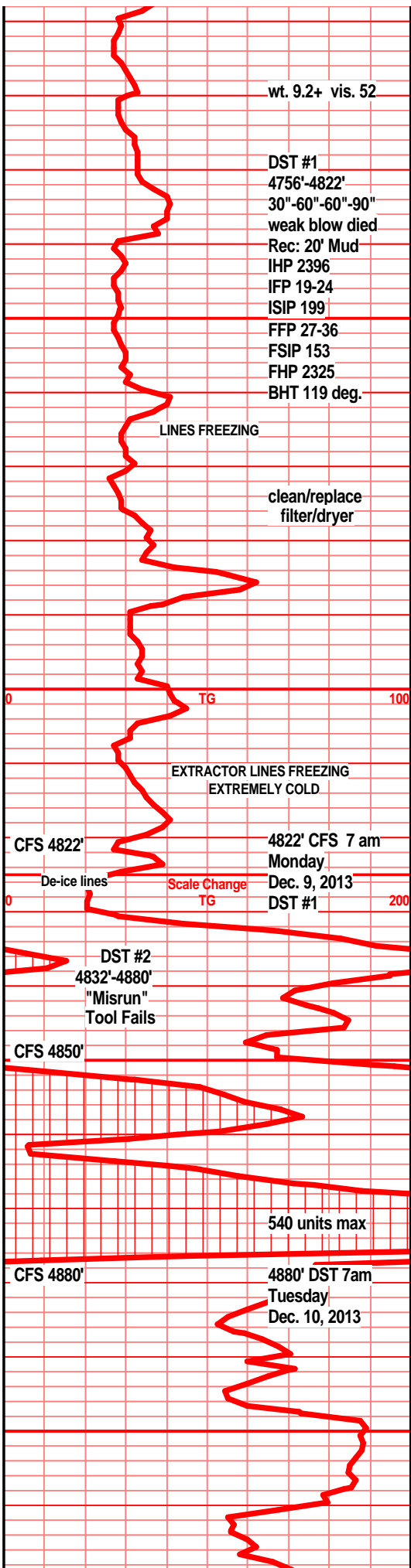
chrt off wht wht shrp frsh sub opa, w/gd weath gran sli spongy sli chlky trip text, drk tan brn stained in weath text, gd vug, pp, moldic por, gd stain SFO, gas bubs,

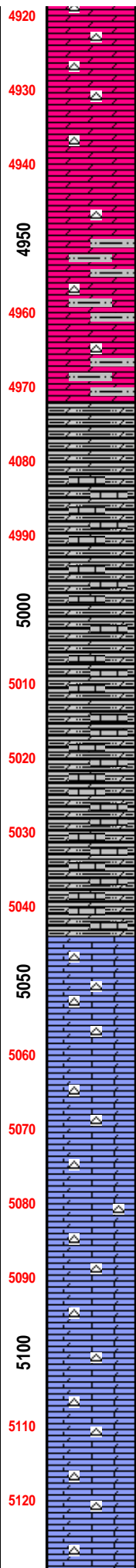
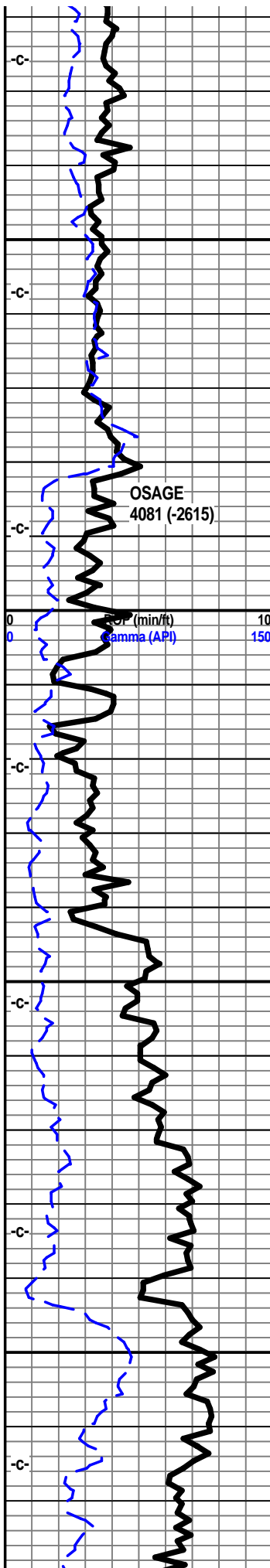
dolo off wht tan f vf xln blkly ang dns pcs, sndy gran text, glau, with tan wht chrt inclu, tr vry sli inter gran por, tr stain

dolo, chrt dolo, crm tan f vf xln blkly ang gran dns, tr glau, tr sndy, vf snd grn inclu, tr interxln por, brn stain, dull tan off wht frsh chrt inclu, tr with sli weath text edges, tan brn stain, ssfo, odor?

dolo, chrt dolo, crm tan f vf xln, gran, gritty sndy, tr glau, sli inter xln por, tan brn stain, off wht tan chrt inclu, tr with weath text pp moldic por, stain SSFO, tr gas, odor?

dolo chrt dolo f vf xln gran gritty, tr sndy text, snd grn inclu, chrt off wht lt gry shrp frsh





opaq, drk tan brn stain, SSFO, sli odor

dolo chrty dolo, crm gry bec mstly gry, f vf xln blky ang gran gritty sli sndy pc, snd grn inclu, chrt off wht gry, shrp frsh, tr weath edge, tr inter xln por, drk tan brn stain, SSFO, odor?

dolo gry bec drkr med gry, vf xln blky ang hrd pcs, sndy gritty text, bec arg, tr silty, chrt med gry shrp frsh sub opaq

dolo gry med gry f vf xln gritty sndy, snd grn inclu, inc silty shly arg tr chrt tan gry shrp frsh opaq

dolo gry bec drkr, f vf xln dns hrd blky ang, silty gritty, tr sndy text, snd grn inclu, chrt gry drk gry shrp frsh opaq

dolo silty shly, drk gry, f vf xln gritty silty blky ang, invt e/ftk gty/green shls

dolo, silty dolo, f vf xln gritty silty shly, hrd blky ang pcs, drk gry green silty gritty dolo flav shls

dolo, silty dolostn, f vf xln gran gritty silty shly, hrd blky ang pcs,

dolo, silty dolo, dolo shls, f vf xln gran gritty silty, tr lst wht wht/gry mott f vf xln dns hrd tr foss, pyritic, calc

dolo silty dolo, f vf xln gran gritty arg, silty, trwht lst/dolo crs calc xln inclu. drk gry silty dolo shls

lst crm wht off wht, tr off wht lt gry mott, f sli med xln, calc, blky ang calc fill, chrty, chrt inclu, chrt wht off wht lt gry, milky, shrp frsh opaq, foss frags inbeds,

shl gry drk gry green, lst wht off wht/gry mott, f sli med xln, sub chky in prt, chrty, chrt wht shrp frsh opaq foss frags

lst off wht, off wht gry mott, f sli med xln, blky ang, tr sub chky, tr foss frags, chrty, chrt off wht, milky, shrp frsh foss

lst wht off wht lt gry lt green tinted, f sli med xln blky ang jagged pcs, foss frags, crs calc pcs, chrty, chrt wht milky foss shrp frsh opaq

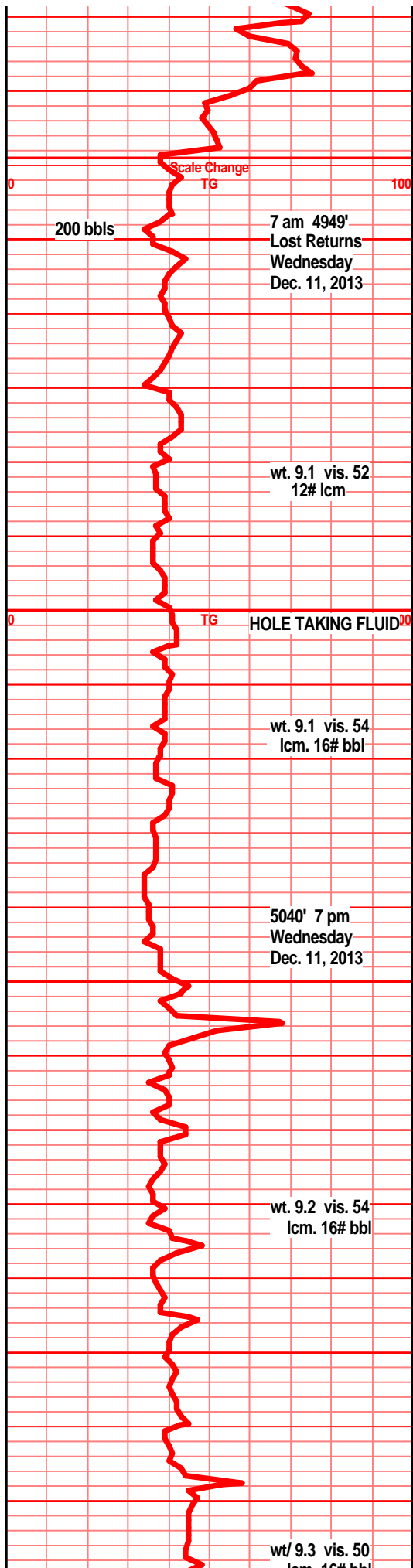
lst tr dolo, off wht lt gry/green tint in prt, f sli med xln blky ang jagged pcs tr sub chky foss frags, crs calc xln pcs, chrty, chrt wht milky shrp frsh foss opaq

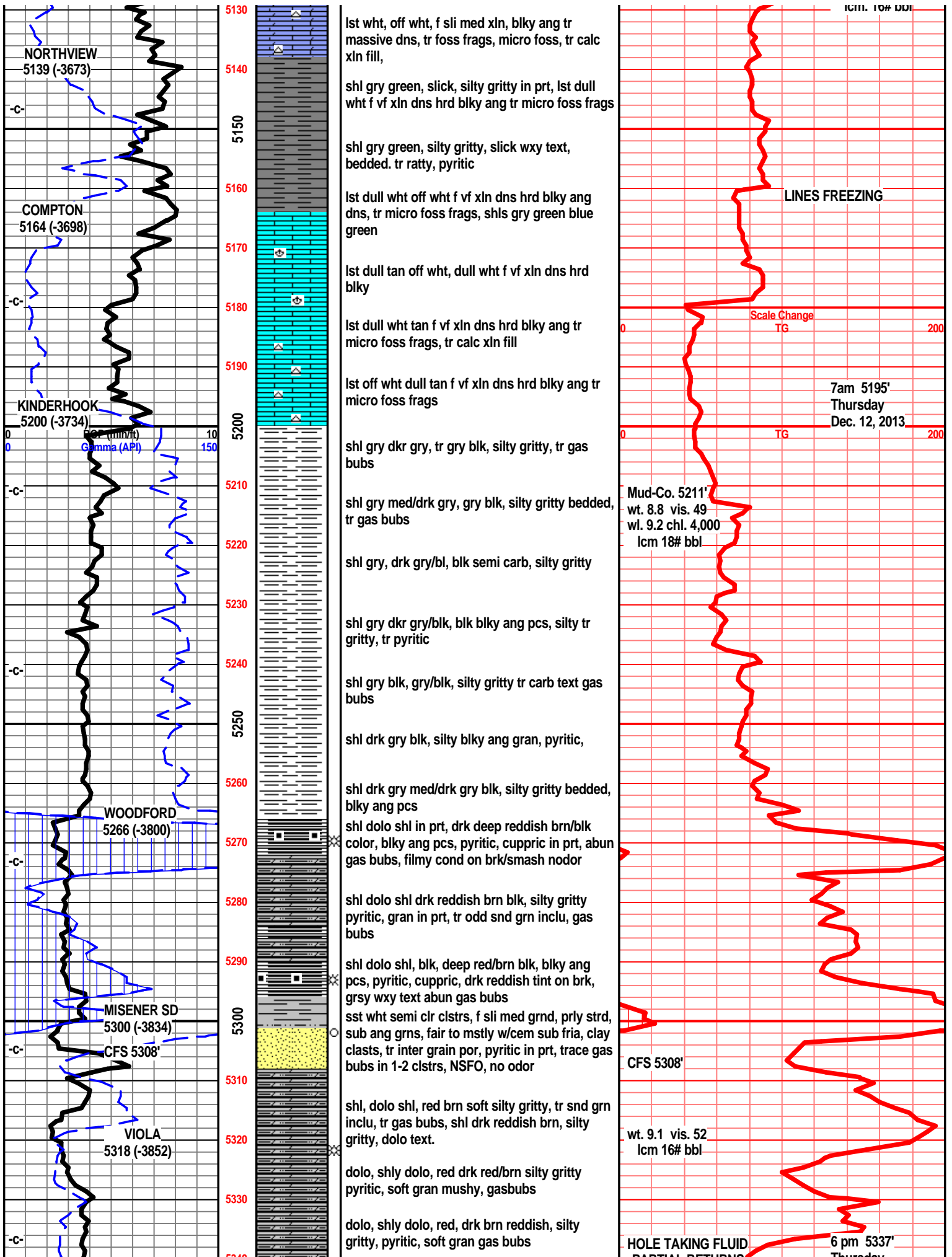
lst, tr dolo in prt, off wht lt gry green tint, f sli med xln blky ang tr sub chky, crs foss frags, crs calc xln pcs, chrty, chrt inclu, chrt wht off wht lt gry shrp frsh opaq

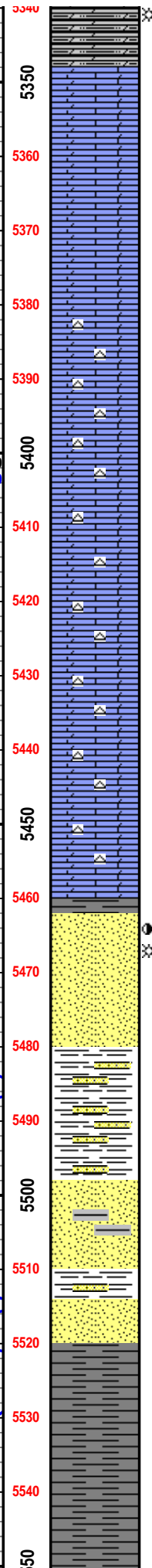
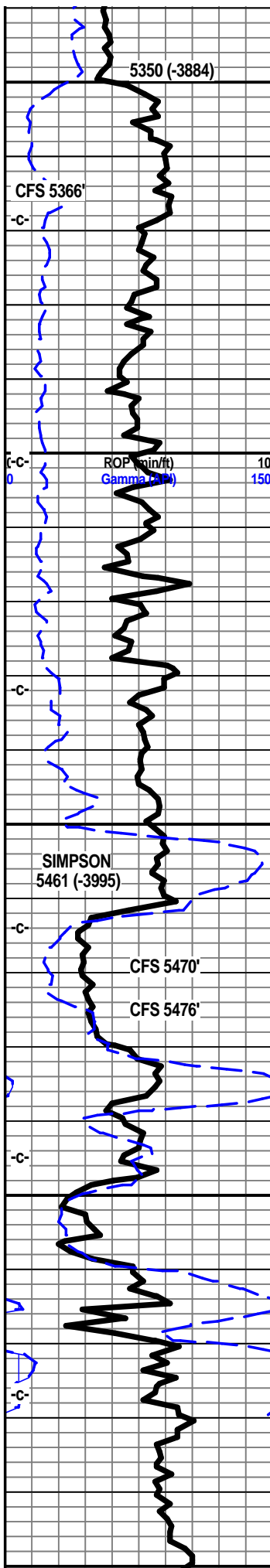
lst tr dolo in prt, off wht lt gry/green tinted, f sli med xln blky ang, tr sub chky. crs calc xln text, foss frag, crsly in prt, chrty, chrt off wht lt gry shrp frsh, foss, shl med gry/green silty gritty gran calc in prt

shl gry gry/blue/green, silty gritty, tr calc, lst tan crm gry tinted, f xln dns hrd blky ang, tr calc fill, sli sub chky

lst off wht crm tan, f vf xln dns hrd blky ang, tr foss frags, tr micro foss frags,







dolo, dolo shls, drk gry/blk, red brn, silty, gritty, gran soft pyritic gassy

1st off wht gry mott f sli med xln, blk ang sub chlky inter xln por, tr foss frags, pyritic, dolo dull tan lt gry/brn, f xln dns hrd blk gran gritty, to soft sli chlky

1st off wht lt gry mott f xli med xln blk ang, tr crs calc edges, foss frags, crsly foss in prt, inter foss/xln por, pyritic, dolo gry dull tan lt brn f xln gran gritty arg, tr foss frags

1st wht tan brn mott f sli med xln, gran, blk chlky, 1st/dolo dull tan lt brn f vf xln dns hrd blk ang gritty, tr sndy text, chrt dull tan lt brn shrp frsh opa

1st/dolo tan brn mott f sli med xln blk ang hrd, gritty, sub chlky, chrt, chrt dull tan/brn shrp frsh opa

1st off wht tan f xln gran soft chlky, dolo dull tan brn f xln blk ang tr chlky, gritty chrt, chrt dull tan brn shrp frsh opa

dolo/1st, tan drk tan dull brn f xln gran, tr sub chlky, gritty, tr snd grn inclu, chrt, chrt drk tan dull brn shrp frsh opa

dolo, dolo/1st, drk crm tan, dull brn f xln gran sub chlky, tr foss frags, chrt, chrt tan dull brn shrp frsh opa

dolo w/1st, off wht-dull tan lt brn f vf xln dns tr gran tr sub chlky, gritty, chrt in prt, chrt tan dull brn shrp frsh sub opa

dolo tan brn, wht/tan/brn mott f vf xln dns sub chlky, tr foss, chrt, chrt tan dull brn shrp frsh, much green, blue green teal green grsy wxy text shl in 5470' spl

shl gry green teal green wxy grsy, sst clr lt gry clstrs, f grnd, sub ang/ang grns, w/srted, w/cem sub fria, silic cem tr inter gran por, tr dolo/xln fill, hvy brn SFO, tr gas bubs on brk, hvy oil smears on brk, nodor, clstrs mstly blk sst wht clr some lt gry clstrs f grnd, sub ang/sub rded grns, w/srted, w/cem to sub fria, silic cem, tr min fill, tr clay fill mstly blk ang semi hard clstrs,

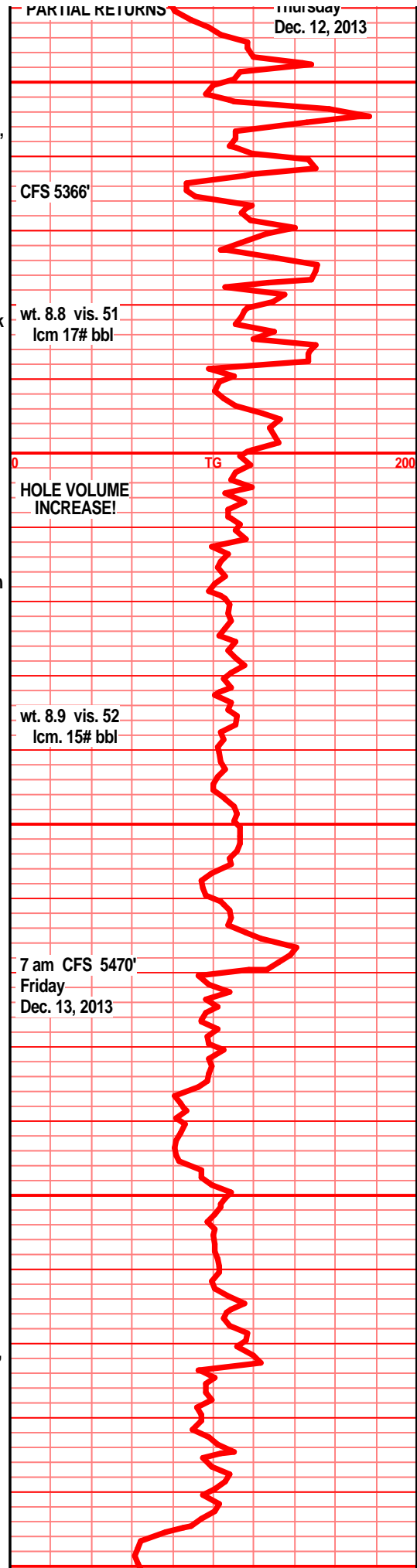
shl gry green teal green slick wxy grsy text, sd grn inclu, tr pyritic, sst/shl contact pcs, sst off tan gry clstrs, f grnd sub ang sub rded, w/srted w/cem, sub fria, mstly tite, min speck, NS

shl drk gry, gry blue green teal green, wxy, grsy text, snd grn, snd clstr inclu, sst gry green f grnd, sub rded grns, w/srted, w/cem, silic cem, sub fria, hvy gry blue, teal green shl inclusions/beds, clay clasts

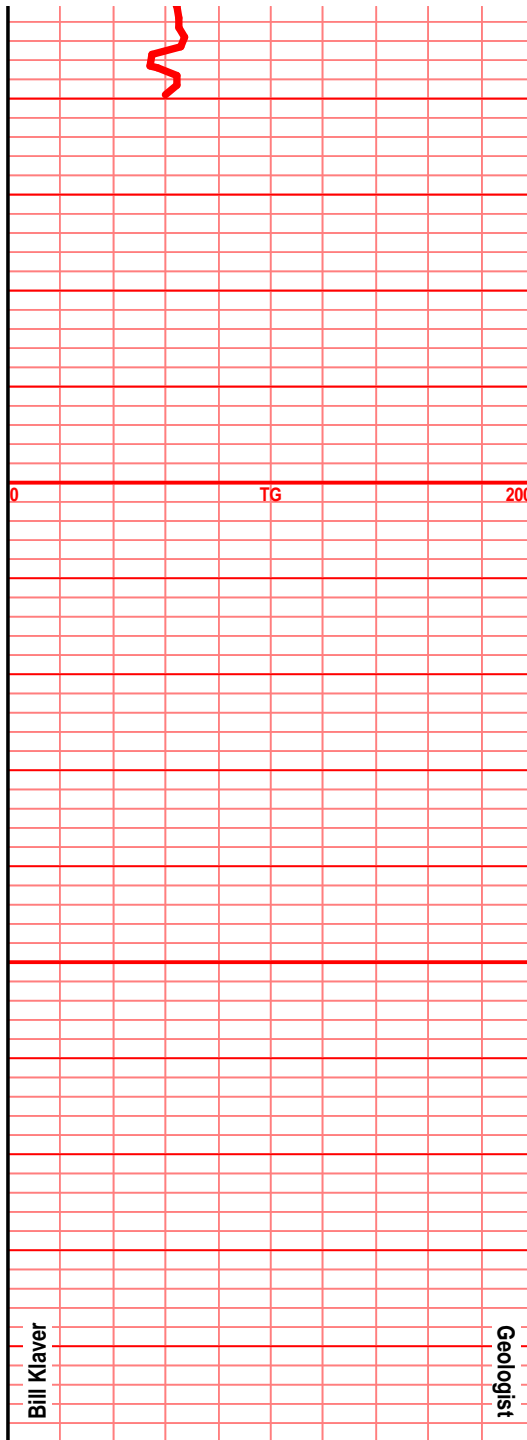
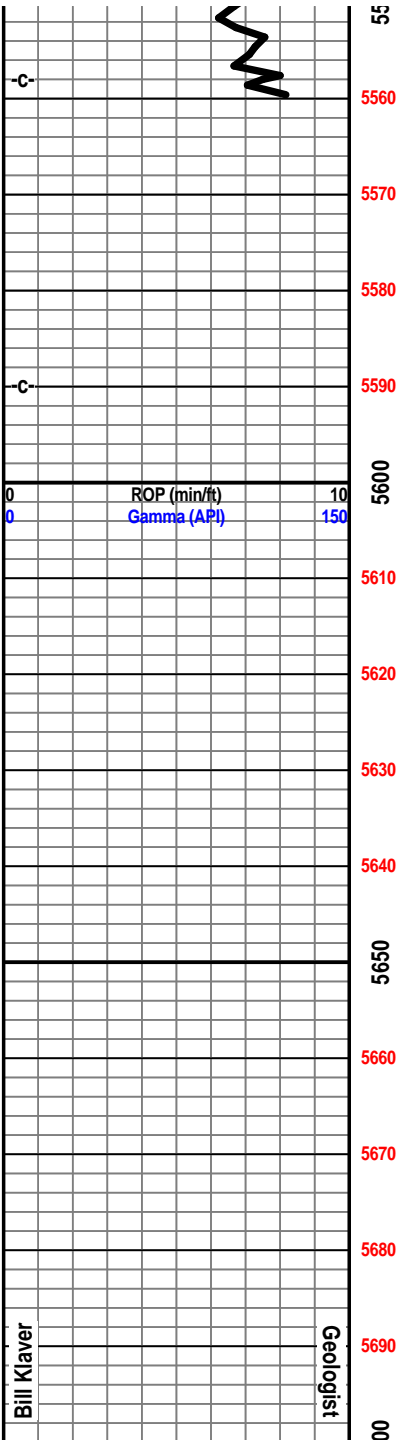
sst off wht lt tan clstrs, f grnd, sug ang, sub rded, w/srted, w/cem, silic cem, sub fria to tite, clay fill, teal green shale fill, mineral fill/specks, shls drk blue gry green teal green

shl deep green, blue green, teal green

shl green teal green, silty pyritic, snd grn inclu slick wxy grsy text



shl deep green blue green teal green pyritic,
snd grn inclu



Woolsey Operating Company
Grogg #1
2310' FSL & 1320' FWL
N 1/2 N 1/2 NW 1/4
Sec. 7 - Twp 35 S - Rge 12 W
Hardtner Field
Barber County, Kansas
API # 15-007-24109-0000