



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1170616
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: _____



1170616

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> <i>(Submit ACO-4)</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	CIRCLE GU A 2
Doc ID	1170616

Tops

Name	Top	Datum
CHASE	1791	-353
ONAGA	2613	-1175
ELGIN SD	3427	-1989
DOUGLAS	3678	-2240
STARK SH	4328	-2905
PAWNEE LS	4513	-3075
MISSISSIPPIAN	4562	-3124
SIMPSON	5020	-3582

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 27, 2013

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

Re: ACO1
API 15-007-24043-00-00
CIRCLE GU A 2
NW/4 Sec.05-34S-10W
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. 040115

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

DATE <i>08 01 13</i>	SEC. <i>05</i>	TWP. <i>34s</i>	RANGE <i>10.w</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>4:30 AM</i>
LEASE <i>Circle 6U</i>		WELL # <i>A-2</i>		LOCATION <i>TRicity Rd & Geoloney 2w,</i>		COUNTY <i>Barber</i>	STATE <i>KS</i>
OLD OR NEW (Circle one)				<i>spin to</i>			

CONTRACTOR *Fossil* OWNER *Woolsey*
TYPE OF JOB *Surface*

HOLE SIZE *17 1/2* T.D. *222*
CASING SIZE *13 3/8* DEPTH *210' ± 11' × 8 3/8*
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX *250* MINIMUM *—*
MEAS. LINE SHOE JOINT *NA*
CEMENT LEFT IN CSG. *20'*
PERFS.
DISPLACEMENT *30 Bbls Fresh H₂O*

CEMENT
AMOUNT ORDERED *200 5X class A + 3% cc + 2' gel & 40# sugar*

EQUIPMENT
PUMP TRUCK CEMENTER *D. Felio*
360-302 HELPER *S. Priddy*
BULK TRUCK
381-252 DRIVER *James Bowen*
BULK TRUCK
DRIVER

COMMON <i>class A 200sx @ 17.90</i>	<i>3580.00</i>
POZMIX @	
GEL <i>4 sx @ 23.40</i>	<i>93.60</i>
CHLORIDE <i>7 sx @ 64.00</i>	<i>448.00</i>
ASC @	
<i>Sugar 40# @ 1.00</i>	<i>40.00</i>
@	
@	
@	
@	
@	
HANDLING <i>216 ft³ @ 2.48</i>	<i>535.68</i>
MILEAGE <i>9.87 hr / 20 / 2.60</i>	<i>513.24</i>
TOTAL <i>5210.52</i>	

WELL FILE

Regulatory Correspondence
REMARKS: mp Workovers
Tests / Meters Operations

See Job Log

SERVICE

Cement Did Cinc.

THX ☺

DEPTH OF JOB	<i>221</i>
PUMP TRUCK CHARGE	<i>1512.25</i>
EXTRA FOOTAGE @	
MILEAGE <i>20 @ 7.70</i>	<i>154.00</i>
MANIFOLD <i>NA @ NA</i>	
<i>Light + Vehicle 20 @ 4.40</i>	<i>88.00</i>
@	

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

TOTAL *1756.25*

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 *6966.77*
DISCOUNT _____ IF PAID IN 30 DAYS

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

(NET) *5225.07*

AUG 29 2013

ALLIED OIL & GAS SERVICES, LLC 059917

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>8-17-13</u>	SEC. <u>5</u>	TWP. <u>34S</u>	RANGE <u>10W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>3:00 AM</u>
LEASE <u>Circle</u>	WELL # <u>6U</u>	LOCATION <u>Tr-City Rd + Gerlane Rd</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		Zw S into					

CONTRACTOR Fossil
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 5140
CASING SIZE 5 1/2 DEPTH 5042
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 44
CEMENT LEFT IN CSG. 44 ft
PERFS.
DISPLACEMENT BBLS ice water
EQUIPMENT
PUMP TRUCK CEMENTER JAKE HARRO
471/265 HELPER David Felio
BULK TRUCK
364 DRIVER Justin Bower
BULK TRUCK
DRIVER

OWNER
CEMENT
AMOUNT ORDERED 75sx 60:40 40gel
125 sx Class H + 10% Salt 10% Gypseal
6# Kolseal + .8% FI-160 + 1/4 # Floseal
COMMON A 45 sx @ 17.90 805.50
POZMIX 30 sx @ 9.35 280.50
GEL 3 sx @ 23.40 70.20
CHLORIDE @
ASE H 125 sx @ 21.20 2650.00
642 seal 23 sx @ 32.60 883.60
Salt 13 sx @ 26.35 342.55
Kolseal 750# @ .98 735.00
FI-160 94# @ 18.90 1776.60
Floseal 31.25 @ 2.97 92.81
Clapror 13 gals @ 34.40 447.20
@
@
HANDLING 247.54 @ 2.48 613.89
MILEAGE 1059/20/2.60 550.75
TOTAL 9248.60

REMARKS:

See Job Log

Float held

WELL FILE AUG 29 2013
Regulatory Correspondence
Drg Comp Workovers
Tests / Meters Operations

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

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.

PRINTED NAME X MIKE THARP
SIGNATURE X [Signature]

SERVICE

DEPTH OF JOB _____
PUMP TRUCK CHARGE 2765.75
EXTRA FOOTAGE @ _____
MILEAGE 20 @ 7.70 154.00
MANIFOLD @ _____
LU 20 @ 4.40 88.00
@ _____
TOTAL 3282.75

PLUG & FLOAT EQUIPMENT

~~ONE OF TWO~~
1 AFU Float Shoe @ 359.30
1' latch Down Plug @ 398.75
11 Turbolizers @ 48.30 531.30
24 Scratchers @ 36.00 864.00
@ _____
TOTAL 2133.35

SALES TAX (if Any) _____
TOTAL CHARGES 14,664.70
DISCOUNT _____ IF PAID IN 30 DAYS
(NET) 11,531.86

5 1/2



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co. LLC

5-34s-10w Barber Ks.

125 N.Market, Ste.1000
Wichita Ks.67202

Circle GU A#2

Job Ticket: 52291

DST#: 1

ATTN: Bill Klaver

Test Start: 2013.08.06 @ 05:16:19

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:02:04

Time Test Ended: 16:28:34

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4536.00 ft (KB) To 4658.00 ft (KB) (TVD)

Reference Elevations: 1438.00 ft (KB)

Total Depth: 4658.00 ft (KB) (TVD)

1430.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Inside

Press @ Run Depth: 118.22 psig @ 4537.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.06

End Date:

2013.08.06

Last Calib.:

2013.08.06

Start Time: 05:16:24

End Time:

16:28:34

Time On Btm:

2013.08.06 @ 08:58:04

Time Off Btm:

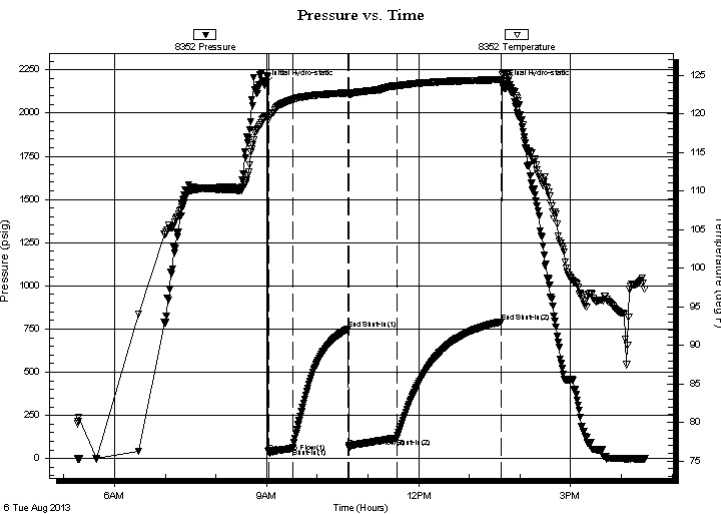
2013.08.06 @ 13:39:04

TEST COMMENT: IF: Strong blow . B.O.B. in 3 1/2 mins.

IS: No blow .

FF: Strong blow . B.O.B. in 15 secs.

FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.67	119.54	Initial Hydro-static
4	38.87	119.18	Open To Flow (1)
33	59.79	121.82	Shut-In(1)
99	751.10	122.71	End Shut-In(1)
100	66.73	122.43	Open To Flow (2)
156	118.22	123.60	Shut-In(2)
280	791.78	124.40	End Shut-In(2)
281	2167.21	125.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	SOC, GM 1%o 19%g 80%m	0.37
150.00	GCM 6%g 94%m	0.74
0.00	2685 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co. LLC

5-34s-10w Barber Ks.

125 N. Market, Ste. 1000
Wichita Ks. 67202

Circle GU A#2

Job Ticket: 52291

DST#: 1

ATTN: Bill Klaver

Test Start: 2013.08.06 @ 05:16:19

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:

3000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	SOC, GM 1%o 19%g 80%m	0.369
150.00	GCM 6%g 94%m	0.738
0.00	2685 ft. of GIP	0.000

Total Length: 225.00 ft

Total Volume: 1.107 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Circle GU A-2
Location: Section 5 - Township 34 South - Township 10 West
License Number: 15-007-24043-00-00 Region: Barber County, KS
Spud Date: July 31, 2013 Drilling Completed: August 8, 2013
Surface Coordinates: 330' FNL & 900' FWL
Apx. W 1/2 NE NW NW
Bottom Hole
Coordinates:
Ground Elevation (ft): 1430' K.B. Elevation (ft): 1438'
Logged Interval (ft): 4000' To: 5140' Total Depth (ft): 5140'
Formation: Kansas City ----> Simpson Group
Type of Drilling Fluid: Chemical Mud
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
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Spud at 6:30 Wednesday evening on July 31, 2013. Ran 5 joints of new 13 3/8" X 48#/ft casing to 222' KB (tally 210.85') with 200 sx Class A, 2% gel, 3% cc. Cement did circulate.

Production Casing:

Deviation Surveys: 1/2 at 104', 1 at 222', 3/4 at 749', 3/4 at 1253', 1/4 at 2760', 1 at 3200', 1/2 at 3701', 3/4 at 3952', 1/4 at 4483', 3/4 at 4658', 7/8 at 5140'

Pipe Strap @ 4658', Strap: 4665.95', Board: 4673.71. Strap 7.76' short. No correction was made to the board.

Fossil Drilling Co. Rig 2 Bit Record"

- 1) 17" RT RR in at 0' out at 222'. 5.75 hours
- 2) 7 7/8" Security HE-21 in at 222' out at 4658', 4436'/77.5 hours
- 3) 7 7/8" Security HE-29 RR in at 4658' out at 5140' 482'/22 hours

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud-Co. Brad Bortz, Engineer




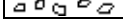




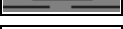


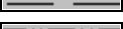


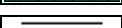


DSTs: Trilobite Testing, Gary Pevoteaux, Tester

COMMENTS

CREWS

Fossil Drilling Co. Rig 2
 Glen Holmes, Tool Pusher
 Kerry Clark, Days
 Larry Hunt, Evening
 Kevin Clifft, Morning

ROCK TYPES

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

ACCESSORIES

MINERAL

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

- Chlorite
- Dol
- Sand
- Slty

FOSSIL

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

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

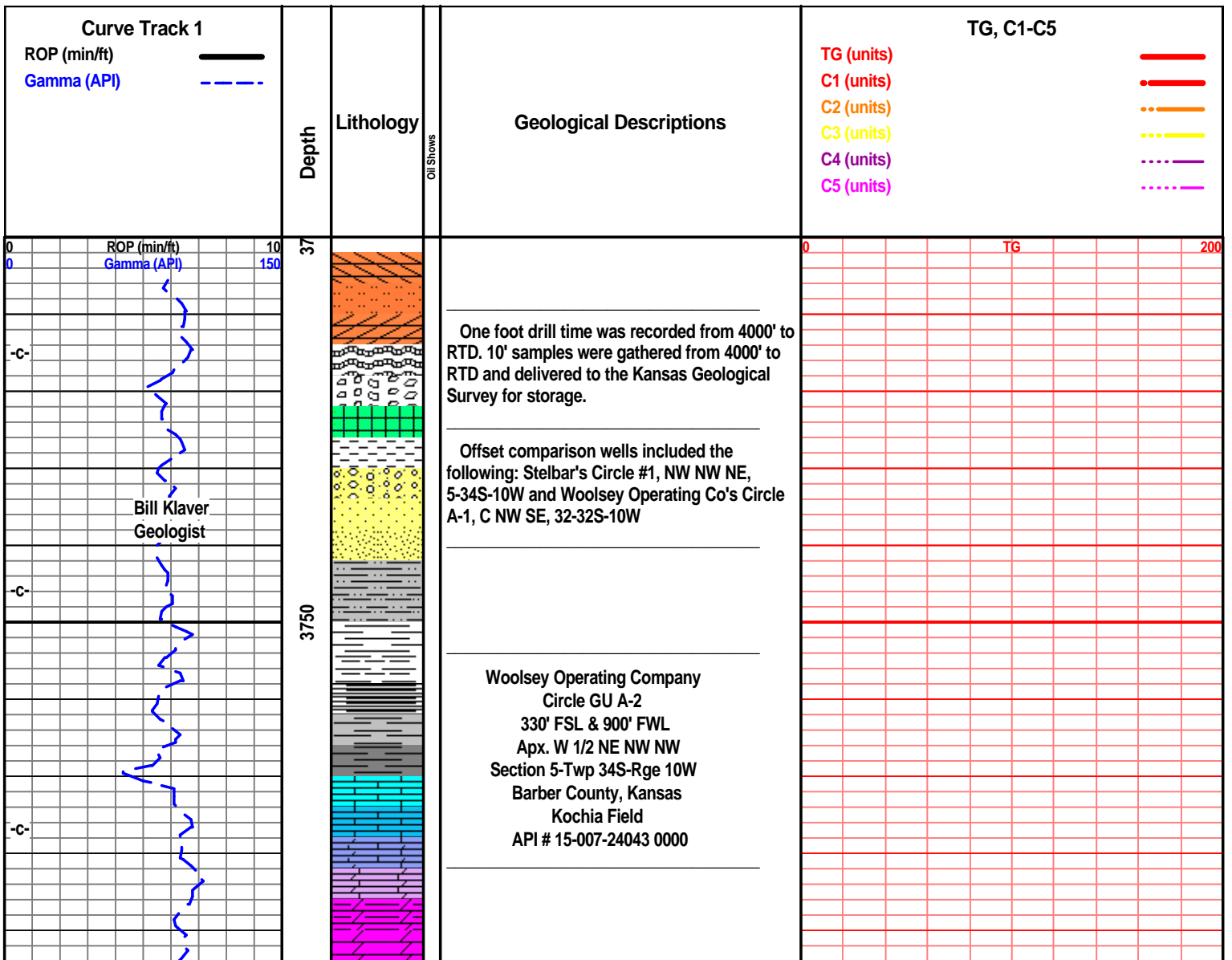
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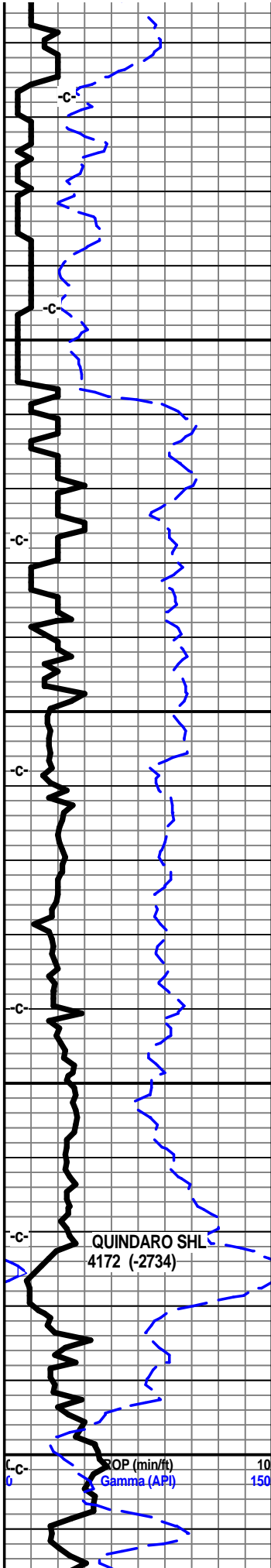
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg
- Carbsh
- Clystn
- Dol

- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Slststn

TEXTURE

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



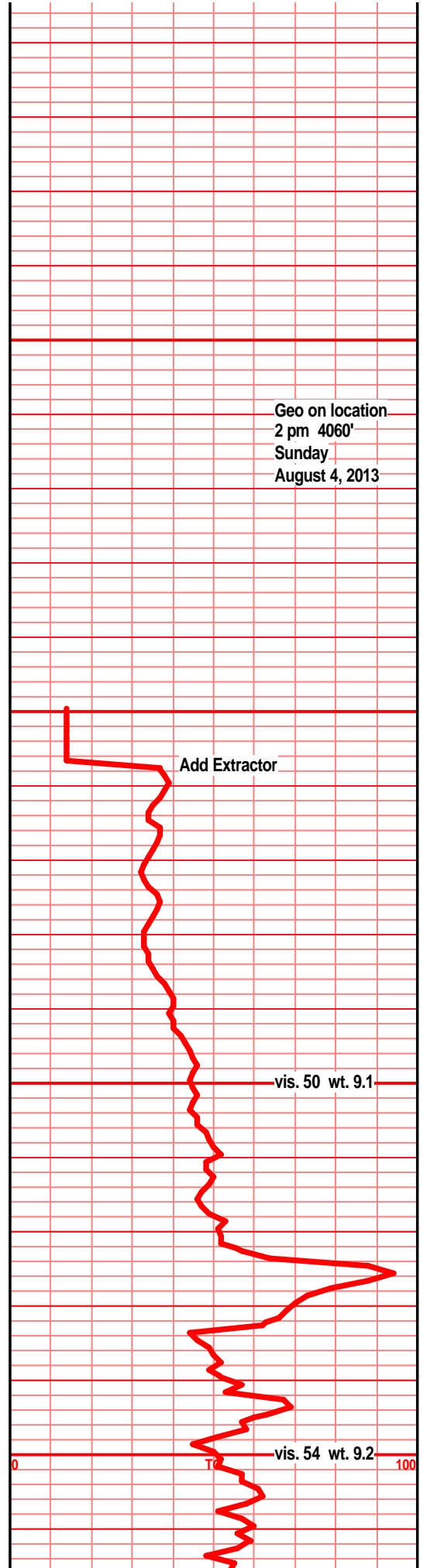
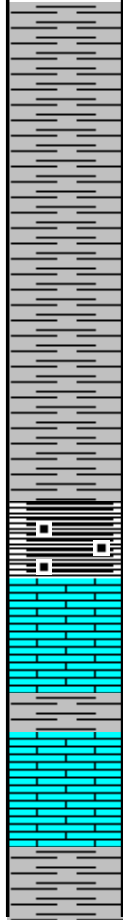


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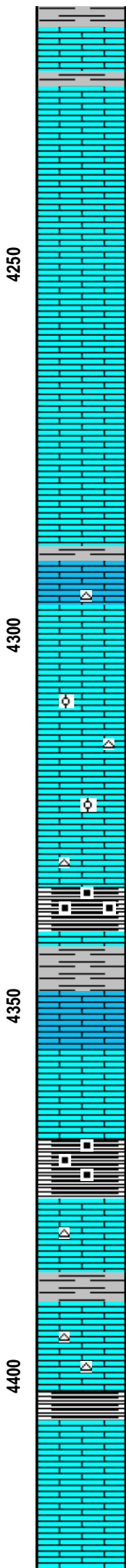
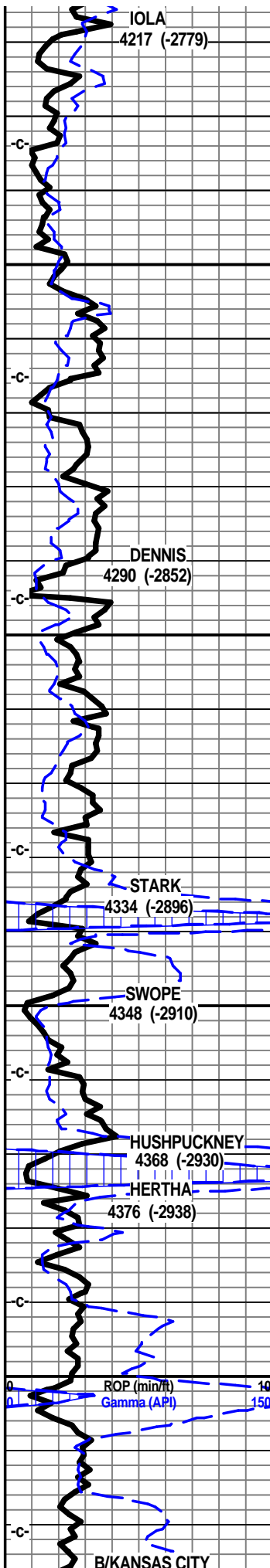
4100

4150

4200



Geo on location
 2 pm 4060'
 Sunday
 August 4, 2013



Ist off wht crm f sli med xln sub chlky tr gran, foss frags, tr foss ool, chrt lt gry shrp frsh

Ist off wht crm f xln blk ang gran sub chlky foss frags, calc xln fill, foss ool, chrt dull gry drk gry shrp frsh foss

Ist off wht crm tan f xln gran blk ang dns hrd sub chlky foss frags, foss ool pelletal, calc fill, chrt gry shrp frsh opa

Ist crm tan off wht f xln bky ang gran sub chlky, foss frags/ool, chrt off wht lt gry shrp frsh

Ist crm tan off wht f xln gran sub chlky foss frags, calc fill chrt lt gry shrp frsh

shl dkdr gry blk, blk carb, wxy grsy text, tr gas bubs,

shl gry blk, silty gritty calc, Ist tan gry f xln blk ang gran arg

Ist crm tan off wht f xln gran sub chlky foss frags/ool, calc fill pp foss mold por

Ist off wht crm f xln blk ang gran soft, calc fill, foss frags/ool, tr chrt tan gry shrp frsh

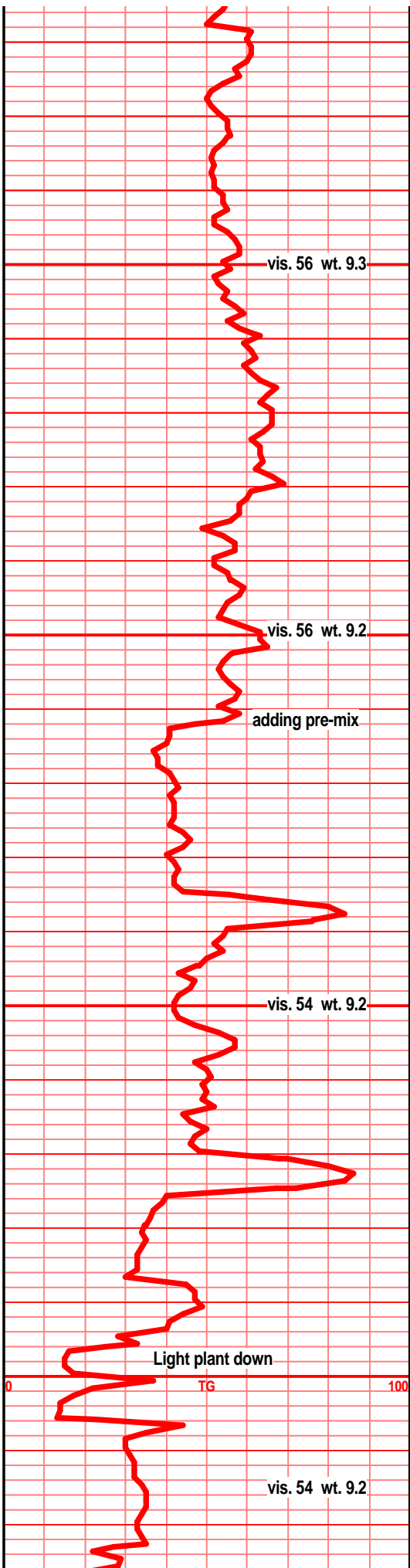
Ist aa, much blk wxy grsy tr gassy carb shl, blk ang pcs

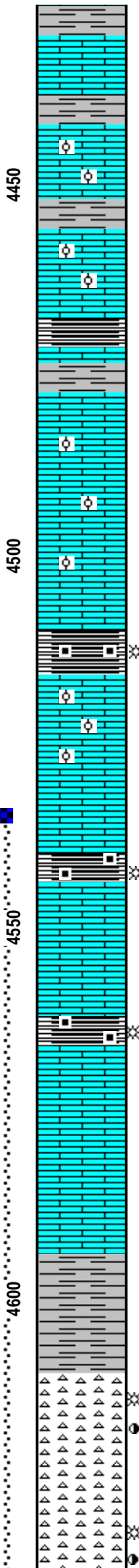
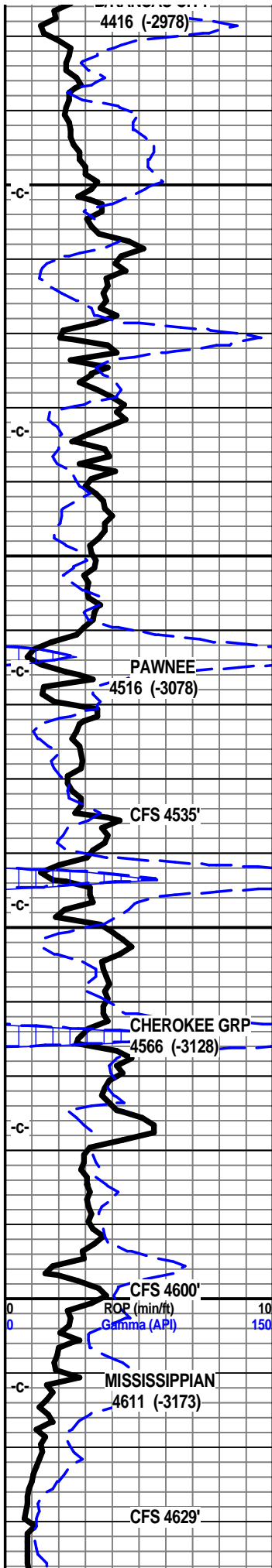
Ist off wht crm tan f xln blk ang gran calc xln fill, sub chlky, tr foss frags, chrt lt gry shrp frsh opa

shl gry drk gry blk, tr carb text, tr gas bubs, Ist tan off wht lt gry f xln dns hrd blk ang

Ist off wht lt gry f xln blk ang dns, some calc fill, arg in prt tr foss frags

Ist off wht lt gry f xln gran dns hrd, blk some foss arg in prt





shl gry med gry, silty gritty, calc in prt, 1st tan tan/brn f vf xln dns hrd blkly arg

1st crm buff drk tan f vf xln dns hrd blkly ang, tr sub chlky calc fill, some foss frags/ool, shl gry gry brn silty gritty calc

1st buff tan f vf xln dns hrd blkly ang, tr sub chlky, tr calc fill, tr foss frags/ool

1st crm buff tan f vf xln dns hrd blkly ang tr sub chlky tr foss frags, tr ool,

shl drk gry blk, silty gritty, some tr carb text, 1st tan buff f vf xln dns blkly ang, calc fill, tr foss frags, tr foss micro ool

shl gry green calc, 1st tan buff crm f vf xln blkly ang dns, tr sub chlky, foss frags, micro ool, calc fill

1st crm buff tan off wht f xln blkly ang hrd dns, foss frags, micor ool, pelletal, calc fill

1st crm lt gry buff vf xln dns hrd blkly ang micro foss ool, tr calc xln fill, pelletal, massive

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

1st gry/tan buff f vf xln dns hrd blkly ang pcs, foss frags, micro foss frags, hvy calc fill, sli sub chlky, NVP, tr gas bubs, scat rare UV, mineral?

1st crm buff tan f vf xln dns hrd blkly ang pcs, micro foss/ool, pelletal, calc xln fill, some sli sub chlky

1st crm tan/gry buff vf xln dns hrd blkly ang tr sub chlky, msly massive dns, micro xln/foss ool aa

1st crm buff tan/gry f vf xln dns hrd blkly, micro foss frags, ool, calc xln fill, massive

shl drk gry, gry blk, semi carb text, wxy grsy text, blkly ang pcs, 1st aa in spl

1st tan/gry, buff f vf xln blkly ang hrd dns, calc fill, micro foss frags/ool, abun drk gry blk shls

1st aa, shl gry drk green banded, tr maroon/red silty gritty calc

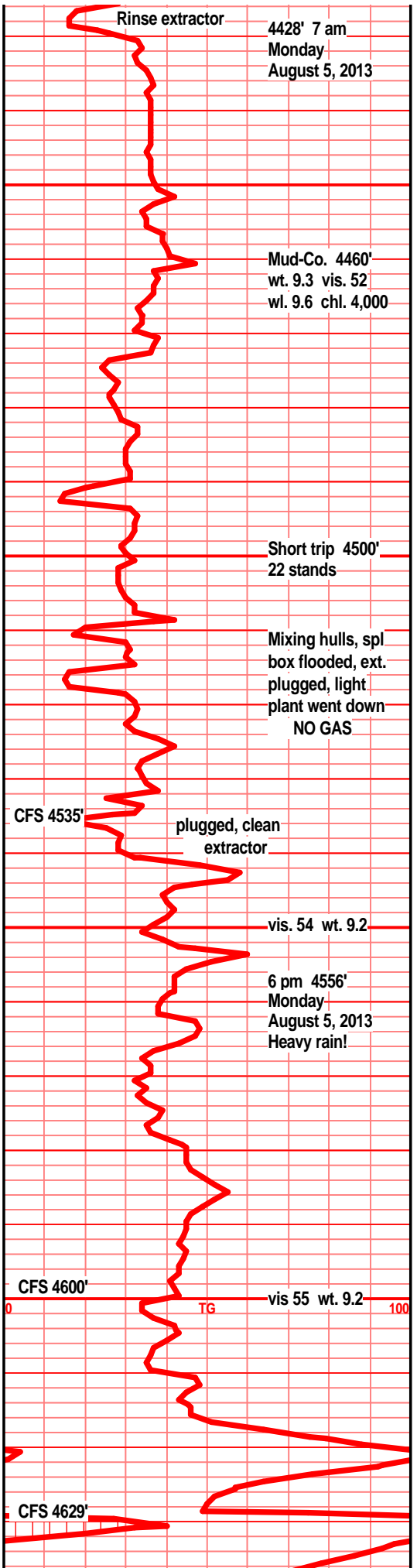
shl gry tan gry gritty silty sndy in prt, tr drk gry/brn/blk gritty pyritic shl, gas bubs, 1st buff gry/tan f vf xln dns blkly ang gran sndy in prt

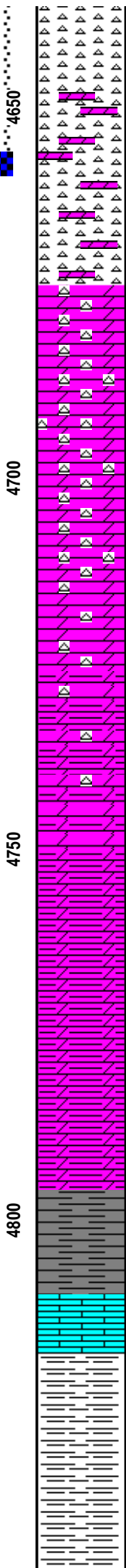
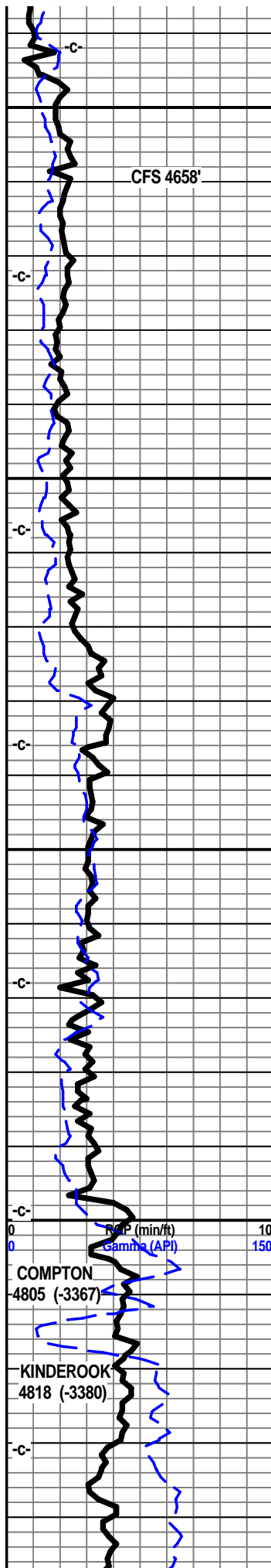
shl gry green, blue green silty gritty sndy, bedded, banded

chrt off wht crm tan dull tan, shrp frsh opa, blkly ang pcs, tr weath edge text, tr pp moldic por, drk brn blk stain, sli odor,

chrt wht off wht tan shrp frsh opa, sub transl, blkly ang pcs with sli chlky gran spongy trip edges in prt, pp moldic por, sli odor, stain, ssfo, odor bleeding oil/gas

chrt wht off wht crm, gran spongy trip text, sli chlky text, crush wht, chrt lt gry crm tan shrp





cherty text, crush with, chrt lt gry chrt tan shrp
 frsh sli opaqa with gran spongy trip text, gd vis
 pp moldic por, gd vug por, inter gran por, fair
 to gd odor, abun gas bubs, drk tan brn stain,
 SFO, bleeding oil/gas in spl cup

chrt wht off wht shrp frsh blk ang opaqa pcs,
 with tan lt gry vf xln gran tr gritty tr sndy dolo

chrt off wht lt gry shrp frsh blk ang, opaqa, tr
 weath edge text, tr drk stain, tr gas bubs, dolo
 edge, dolo tan crm vf xln gran sndy text

dolo, chrt dolo, tan crm f vf xln dns hrd blk
 ang pcs, sndy gritty text, tr glau, tr lt stain, chrt
 off wht lt gry shrp frsh opaqa, tr scatt edge
 stain, tr gas bubs, odor?

dolo, chrt dolo, tan buff crm f vf lxn, blk ang
 dns hrd pcs, sndy text, tr glau, tr lt tan stain,
 chrt off wht lt gry tan shrp frsh opaqa, tr weath
 text edge, tr edge stain, tr gas

chrt dolo, tan buff crm f vf lxn dns hrd blk
 ang chrt pcs, sndy gritty text, tr glau, tr lt
 stain, chrt with dolo edge, lt gry off wht shrp
 frsh opaqa, tr drk edge stain, nodor, NSFO

chrt dolo tan off wht crm f vf lxn dns hrd blk
 ang pcs, sndy gritty text, some sub chlky, tr
 glau with off wht lt gry chrt inclu, & chrt off wht
 lt gry shrp frsh opaqa semi transl, blk ang
 pcs, with rare drk edge stain, nodor NSFO

chrt dolo, tan off wht lt gry/buff f vf lxn dns
 hrd blk ang pcs, sndy gritty text in prt, tr glau,
 with off wht lt gry shrp frsh chrt inclu, chrt off
 wht lt gry shrp frsh opaqa blk sli transl pcs,
 increase gry blk /brn dolo shls

shls gry med drk gry, semi gry green brn blk,
 silty calc, some dolo drk tan gry brn vf xln dns
 hrd blk ang arg

shl gry med drk gry brn blk, silty gritty gran
 calc, plated, some dolo drk gry brn f vf lxn dns
 hrd arg silty gritty

shl drk med gry green, msly lt blue green, silty
 gritty in prt, some soft mushy

lst wht off wht lt crm, f vf lxn blk ang hrd
 pcs, tr sub chlky in prt, tr micro foss frags,
 micro ool, crush/wash white

shl dull drk to med gry, micro silty, gritty,
 bedded some banded, tr pyritic

shl gry, med to drk dull gry, silty, some gritty,
 bedded, tr banded, tr pyritic, tr gas bubs on



CFS 4658'

DST #1
 4536'-4659'
 30"=60"-60"-120"
 SB BOB in 3 min
 Rec: 2685' GIP
 150' SGCM
 75' SO&GCM
 IHP 2164
 IFP 38-59
 ISIP 751
 FFP 68-118
 FSIP 791
 FHP 2167
 BHT 124

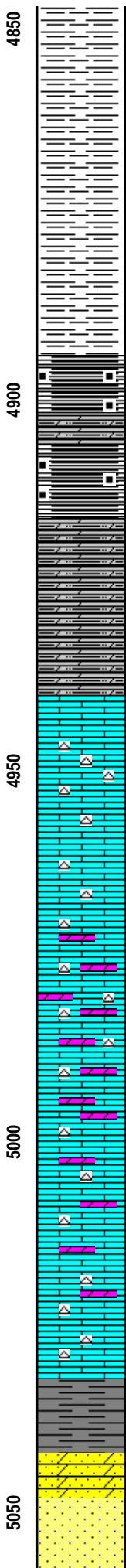
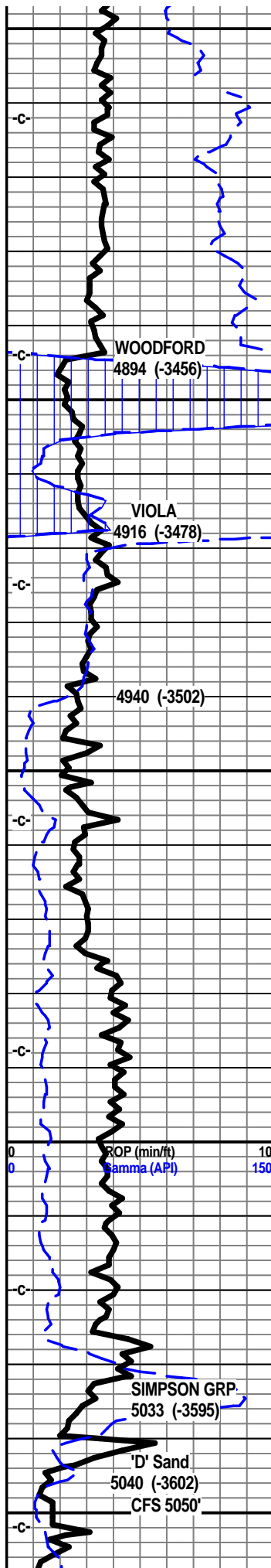
High volume
 flooding spl box
 and extractor

4658' 7 am
 Tuesday
 August 6, 2013

light plant down

vis. 52 wt. 9.1
 lcm. 6# bbl

4818' 7am
 Wednesday
 August 7, 2013



break

shl drk gry, drk gry/brn, silty gritty blk ang splinters, tr pyritic

shl drk gry, tr blk/brn with reddish tint, silty, tr gritty, tr pyritic, some bedded/banded

shl drk gry blk, scratch reddish, blk ang hrd pcs, tr gas bubs

shl gry dkr gry blk, reddish scratch, blk ang hrd pcs, tr gas

shl fnly dolo shls, drk gry, reddish brn blk, silty tr gritty, tr pyritic, blk ang pcs, abun gas bubs on break

shl drk gry mstly blk, reddish blk, blk ang pcs, drk brn reddish pyritic silty dolo shl, gritty gran in prt, abun gas bubs, tr filmy cond on brk/smash

silty dolotan lt gry brn f grnd, silty soft, mushy in prt, tr pyritic, silty dolo, drk red brn silty hrd blk ang pcs.

silty shly dolostn/siltstone, f grnd, gritty mstly soft gran, mushy, spls wsh lt gry, tr pyritic scatt brn red brn silts, pyritic in prt, tr gritty sndy text.

lst off wht lt gry f sli med xln, blk ang calc pcs, int xln por, pyritic fill, lst/ dolo wht gry mott, f sli med xln blk ang calc pcs, much pyritic, tr wht frsh semi opa chrt, tr filmy RBSFO, filmy stain, tr gas bubs, nodor

lst, dolo in prt, wht tan drk tan f xln dna hrd blk, chrt in prt, sndy gritty in prt, chrt inclu, dull tan gry shrp frsh opa

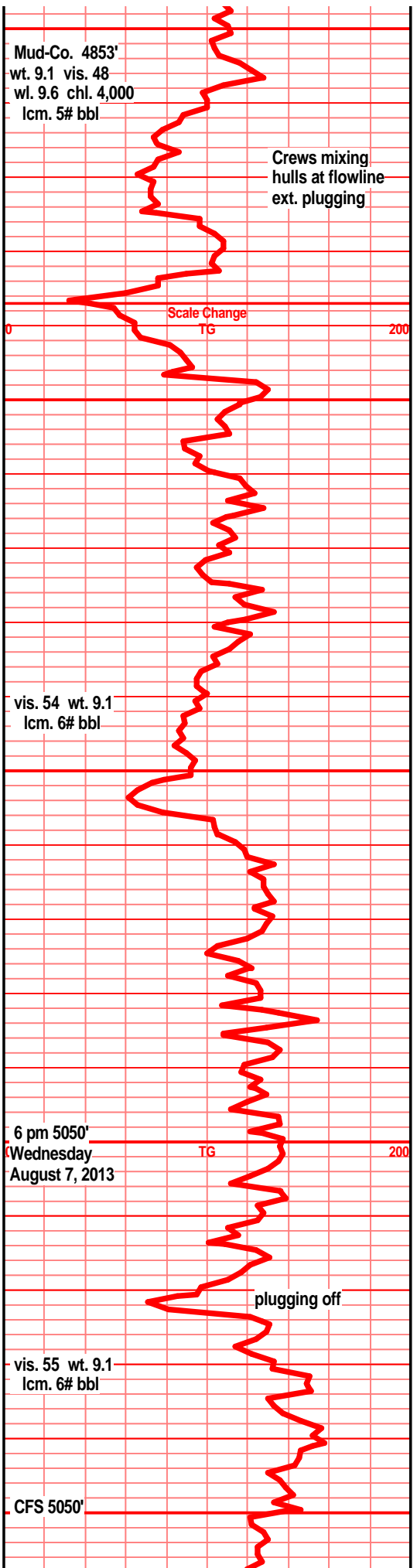
lst, dolo in prt, tan drk tan lt brn, f vf xln dns hrd blk ang pcs, sndy text, tr pyritic, chrt with chrt inclu tan dull gry/tan shrp frsh opa,

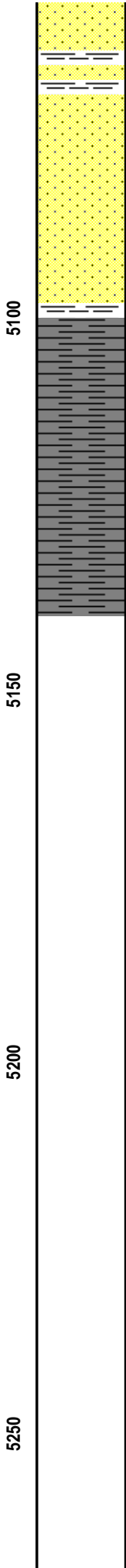
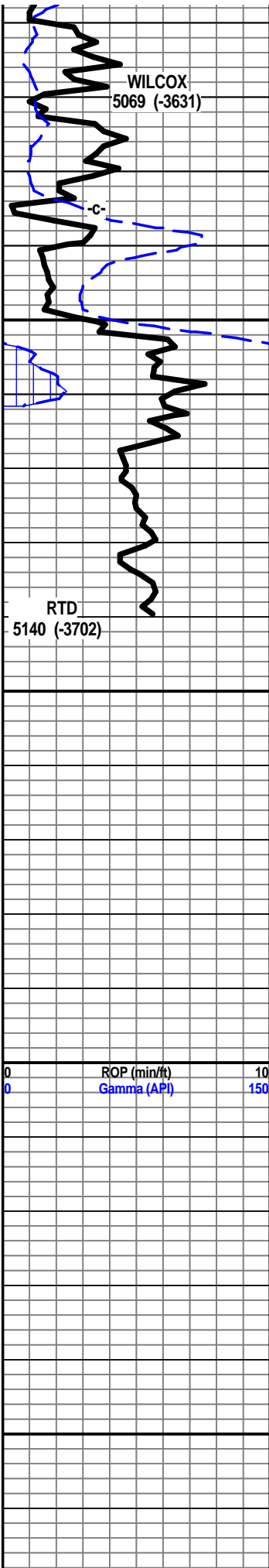
lst/dolo tan dull tan lt gry f xln dns hrd blk ang pcs, sndy gritty text in prt, chrt with chrt inclu, tan gry shrp frsh opa,

lst tan drk dull tan lt brn f vf xln dns hrd blk ang, dolo text, sndy gritty in prt, chrt, chrt dull gry opa shrp blk pcs

lst, dolo in prt, drk tan brn, dull tan brn f vf xln dns hrd blk ang, dolo in prt, sndy gritty, chrt, chrt tan dull tan brn shrp frsh opa

lst dolo in prt, drk crm/buff dull tan gry, f vf xln gran soft to hrd dns sndy gritty text, dolo in prt, chrt in prt, much gry tan shrp frsh opa chrt, pyritic in prt,
shl blue gry green, teal green, slick wxy grsy, tr pyrite, tr snd grn inclu, sst gry green tint, f grnd, sub rded, prly srted, w/cem, dolo/silic cem, gry green clay fill, blk ang clstrs & sst crm wht clstrs, f grnd, sub rded grns, w/srted, w/cem, silic cem, tite blk clstrs, tr gilson dead stain, nsfo, no gas, nodor





sst off wht tan & gry f grnd, sub rded, prly tr fair srted, w/cem, silic cem, tr gilsonitic flky dead stain. blkly ang hrd clstrs, tr clr frsted f grnd w/rded, prly cem clstrs, semi fria, inter gran por NS, rare loose grains in spl tray

sst off wht lt tan clstrs f grnd, sub rded to rded, w/srted, fair cem, silic cem, fria to tite, inter grain por, mstly blkly ang clstrs, tr gilsonitic dead flky stain, nsfo, nodor. sst tan lt gry/brn f grnd, sub ang grains, prly srted, fair to w/cem silic cem, silic cem tr w/clay fill, sub fria, gran text, dead gilsonitic stain, nsfo, nodor, rare loose snd grains in sample tray

shl gry drk gry green teal green, snd grn inclu, clr tr frosted, rded to w/rded, mstly prly srted

shl gry green, teal green, slick wxy grsy, snd grain inclu aa, glau in prt

shl gry drk gry, gry mstly teal green, slick wxy grsy some with sndy grain inclu, glau, hvy in prt

Woolsey Operating Company
Circle GU A-2
330' FNL & 900' FWL
Apx. W 1/2 NE NW NW
Section 5-Twp 34S-Rge 10W
Barber County, Kansas
Keebie Field

