



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1073373
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: _____

1073373

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 <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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	SPICER A 4
Doc ID	1073373

Tops

Name	Top	Datum
CHASE	1798	-361
ONAGA	2649	-1212
ELGIN SD	3504	-2067
HEEBNER	3650	-2213
DOUGLAS	3670	-2233
HERTHA LS	4377	-2940
MISSISSIPPIAN	4576	-3139
VIOLA	4898	-3461
SIMPSON	5032	-3595

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



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

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

Sam Brownback, Governor

February 02, 2012

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

Re: ACO1
API 15-007-23777-00-00
SPICER A 4
NE/4 Sec.02-34S-11W
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. 037681

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS.

DATE <u>9-6-11</u>	SEC. <u>2</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT <u>7:00 pm</u>	ON LOCATION <u>7:30 pm</u>	JOB START <u>11:00 pm</u>	JOB FINISH <u>11:25 pm</u>
LEASE <u>Spicer</u>		WELL # <u>A-4</u>		LOCATION <u>281 + Gerlain Rd.</u>		COUNTY <u>Barber</u>	STATE <u>Kansas</u>
OLD OR NEW (Circle one)				<u>East to Bethel Rd, 1/16 W, 3/4 into #3</u>			

CONTRACTOR H-2 Rig OWNER Woolsey Operating

TYPE OF JOB Surface

HOLE SIZE 14 3/4" T.D. _____

CASING SIZE 10 3/4" DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 250 MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 19 3/4 Bbls Freshwater

CEMENT			
AMOUNT ORDERED <u>240 sx Class A + 3% cc + 2% Gel</u>			
COMMON	<u>A 240 sx</u>	@ <u>16.25</u>	<u>3900.00</u>
POZMIX		@	
GEL	<u>5 sx</u>	@ <u>21.25</u>	<u>106.25</u>
CHLORIDE	<u>9 sx</u>	@ <u>58.20</u>	<u>523.80</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>254</u>	@ <u>2.25</u>	<u>571.50</u>
MILEAGE	<u>254/11/15</u>		<u>419.10</u>
			TOTAL <u>5520.65</u>

EQUIPMENT

PUMP TRUCK CEMENTER Carl Balding

471-302 HELPER Danny Wright

BULK TRUCK

364 DRIVER Ryan Reeves

BULK TRUCK

_____ DRIVER _____

REMARKS:

Run 203 71 10 3/4 casing
+ 12' 8 3/8 landing joint
Break circulation w/ Rig
Mix 240 sx Class A + 3% cc + 2% Gel
Displace with 19 3/4 Bbls water.
Leave 15' cement in pipe + shut in.
Cement + did circulate, shut in.

SERVICE

DEPTH OF JOB	<u>215'</u>		
PUMP TRUCK CHARGE		<u>1125.00</u>	
EXTRA FOOTAGE		@	
MILEAGE	<u>30</u>	@ <u>7.00</u>	<u>210.00</u>
MANIFOLD		@	
<u>Light Vehicle</u>	<u>30</u>	@ <u>4.00</u>	<u>120.00</u>
		@	
			TOTAL <u>1455.00</u>

CHARGE TO: Woolsey Operating

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>X</u>	@	
	@	
	@	
	@	
	@	
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 6975.65

DISCOUNT 20% IF PAID IN 30 DAYS

Net 5580.52

PRINTED NAME Donald Boyd

SIGNATURE Donald Boyd

OCT 17 2011

ALLIED CEMENTING CO., LLC. 037875

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge Ks

DATE <u>10-14-11</u>	SEC. <u>2</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT <u>1:00pm</u>	ON LOCATION <u>4:30pm</u>	JOB START <u>9:30pm</u>	JOB FINISH <u>10:15pm</u>
LEASE <u>Spicer</u>	WELL# <u>A-4</u>	LOCATION <u>Gerlain & 281 E to Bernol Rd</u>			COUNTY <u>Barber</u>	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>S & W / into</u>				

CONTRACTOR H 2 #3
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5110'
 CASING SIZE 5 1/2 15.5# DEPTH 5108'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 44
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 123 bbls of Fresh water

EQUIPMENT
 PUMP TRUCK CEMENTER Darin F.
 # 360-265 HELPER Jason T.
 BULK TRUCK
 # 421-252 DRIVER Ryan R.
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Pipe on bottom & break circulation
mix 25% for rest hole, mix 50% of Scoverson
Cement, 120sx of 4% cement, shut down
wash pump & lines, Release plug, start
displacement, Lift pressure 9+ 85 bbls, slow
rate to 3 bpm @ 110 bbls, bump plug @
123 bbls 1000-1700 psi, float did hold

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

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

PRINTED NAME x Donald Boyd
 SIGNATURE x Donald Boyd

Thank you!!!

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 75sx 60:40:490Goi
120sx Class H + 10% Gyp + 10% SS +
6# Kelsey + 8% FL160 + 1/4# Flo Seal
12gal Clapno
 COMMON class A 45sx @ 731.25
 POZMIX 30sx @ 255.00
 GEL 3sx @ 63.75
 CHLORIDE _____ @ _____
 ASC _____ @ _____
H 120sx @ 2658.00
Gyp 12sx @ 410.40
Salt 13sx @ 156.00
Kelsey 720# @ 640.80
FL-160 90# @ 1548.00
Flo Seal 30# @ 81.00
Clapno 12gal @ 375.00
 HANDLING 241 @ 542.25
 MILEAGE 15.11.241 @ 397.61
 TOTAL 7859.10

SERVICE

DEPTH OF JOB 5108'
 PUMP TRUCK CHARGE _____ 2695.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 30 @ 210.00
 MANIFOLD Headrental @ 200.00
 _____ 30 @ 120.00
 _____ @ _____
 TOTAL 3225.00

PLUG & FLOAT EQUIPMENT

5 1/2
 1- AFU Flo + Shoe @ 349.00
 1- Latch Down Plug @ 277.00
 14- Turbolizers @ 80 1120.00
 44- Scrappers @ 76 3344.00
 _____ @ _____
 TOTAL 5090.00

SALES TAX (If Any) _____
 TOTAL CHARGES 16174.10
 DISCOUNT _____ IF PAID IN 30 DAYS
12939.28

OCT 24 2011



DRILL STEM TEST REPORT

Woolsey Operating L.L.C

Spicer A #4

125 N Market ST 1000 Wichita KS 67202+1729

2-34-11 Barber

Job Ticket: 18642

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.10.12 @ 02:12:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:55:30

Time Test Ended: 11:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-GB-

Interval: 4524.00 ft (KB) To 4616.00 ft (KB) (TVD)

Reference Elevations: 1437.00 ft (KB)

Total Depth: 4616.00 ft (KB) (TVD)

1428.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8419

Inside

Press @ Run Depth: 91.83 psia @ 4612.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.10.12

End Date: 2011.10.12

Last Calib.: 2011.10.12

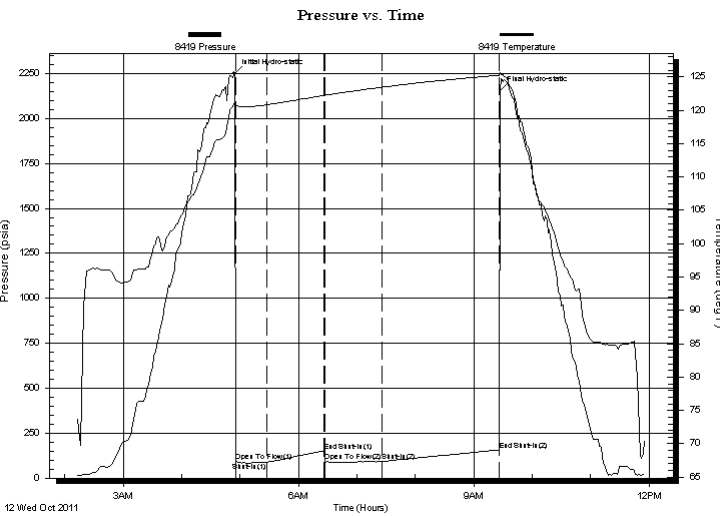
Start Time: 02:12:00

End Time: 11:55:30

Time On Btm: 2011.10.12 @ 04:54:00

Time Off Btm: 2011.10.12 @ 09:27:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 inches into bucket in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 60 Minutes-Very weak blow built 1 inch into bucket in 60 minutes
 2nd Shut-in 120 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2251.81	121.10	Initial Hydro-static
2	93.44	120.76	Open To Flow (1)
33	87.78	120.84	Shut-In(1)
92	151.58	122.22	End Shut-In(1)
93	90.96	122.25	Open To Flow (2)
152	91.83	123.47	Shut-In(2)
272	157.48	125.25	End Shut-In(2)
273	2154.50	125.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating L.L.C

Spicer A #4

125 N Market ST 1000 Wichita KS 67202+1729

2-34-11 Barber

Job Ticket: 18642

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.10.12 @ 02:12:00

Tool Information

Drill Pipe:	Length: 4209.00 ft	Diameter: 3.80 inches	Volume: 59.04 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4524.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

SHut-InTool	5.00		Inside	4501.00		
Hydraulic Tool	5.00			4506.00		
Jars	6.00			4512.00		
Safety Joint	2.00			4514.00		
Packer	5.00			4519.00	28.00	Bottom Of Top Packer
Packer	5.00			4524.00		
Anchor	0.00			4524.00		
Change Over Sub	0.75			4524.75		
Drill Pipe	63.50		Outside	4588.25		
Change Over Sub	0.75		Outside	4589.00		
Anchor	22.00			4611.00		
Recorder	1.00	8419	Inside	4612.00		
Recorder	1.00	8524	Outside	4613.00		
Bullnose	3.00			4616.00	92.00	Bottom Packers & Anchor

Total Tool Length: 120.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating L.L.C

Spicer A #4

125 N Market ST 1000 Wichita KS 67202+1729

2-34-11 Barber

Job Ticket: 18642

DST#: 1

ATTN: Scott Alberg

Test Start: 2011.10.12 @ 02:12:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

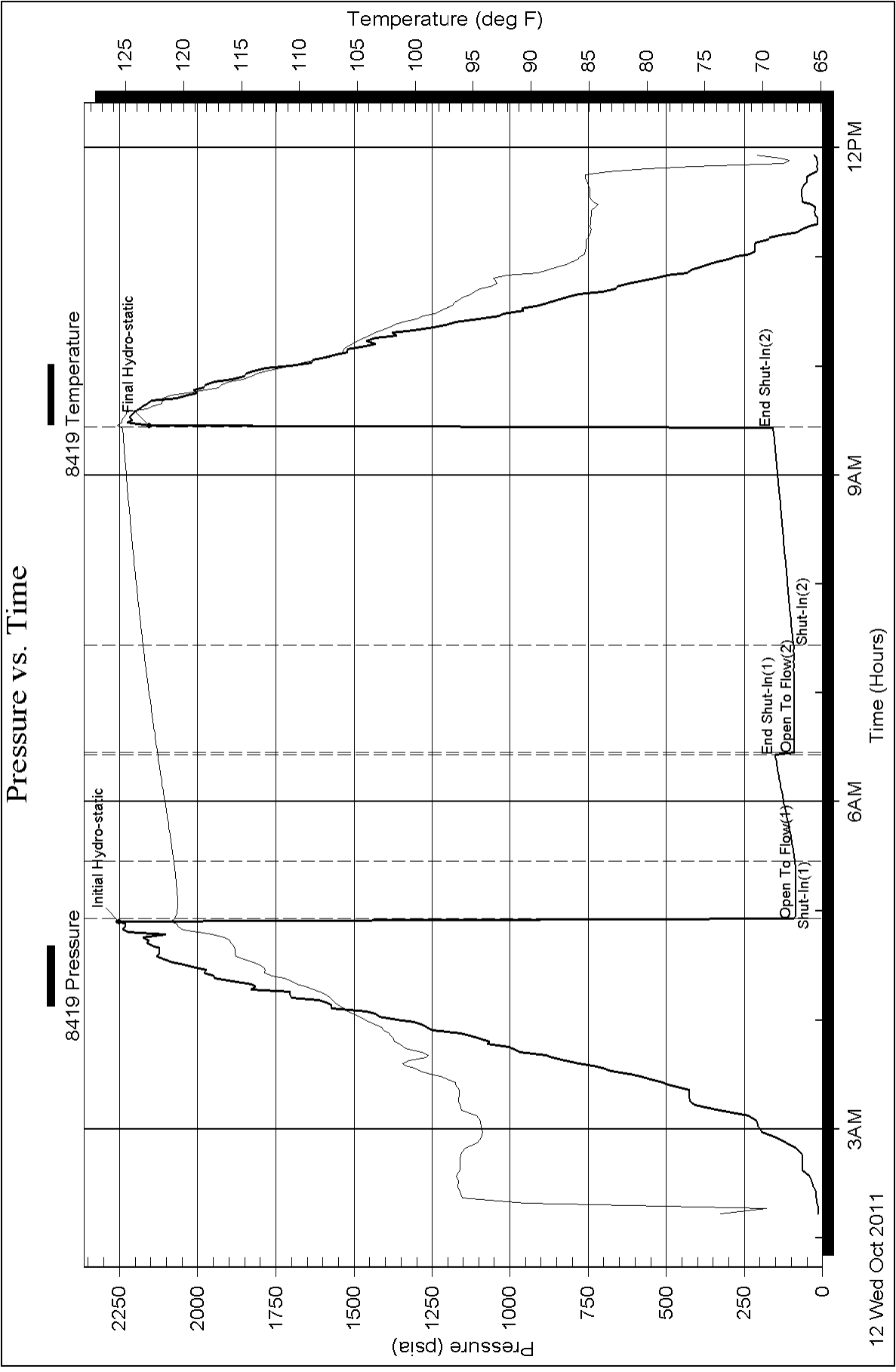
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Spicer A #4
Location: E2 NW NE
License Number: API: 15-007-23771-00-00
Spud Date: October 6, 2011
Surface Coordinates: 660' FNL, 1650' FEL Section 2-Twp 34 South - Rge 11 West
Roundup South Pool
Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 1428 K.B. Elevation (ft): 1437
Logged Interval (ft): 4000 To: 5110 Total Depth (ft): 5110
Formation: McLish Shale
Type of Drilling Fluid: Chemical Mud, Displace at 3421'

Region: Barber County, Kansas

Drilling Completed: October 14, 2011

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
STARK SHALE	4332(-2895)	4332(-2895)
HUSHPUCKNEY SHALE	4364(-2927)	4364(-2927)
B/KC	4409(-2972)	4411(-2974)
PAWNEE	4510(-3073)	4507(-3070)
MISSISSIPPIAN	4579(-3142)	4576(-3139)
KINDERHOOK SHALE	4778(-3341)	4779(-3342)
WOODFORD SHALE	4861(-3424)	4860(-3423)
VIOLA	4899(-3462)	4897(-3460)
SIMPSON GROUP	5005(-3568)	5001(-3564)
SIMPSON WILCOX	5034(-3597)	5932(-3595)
MCLISH SHALE	5060(-3623)	5058(-3621)
RTD	5110(-3673)	
LTD		5108(-3671)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 215' with 240 sxs Class A, 2% gel, 3% cc, plug down at 11:15 pm on October 6, 2011. Cement did Circulate.

Production Casing:.

Deviation Surveys: 220' 1 1/2, 911' 1/2, 1414' 1/2, 1947' 3/4, 2449' 1, 2951' 1 1/2, 3341' 3/4, 3828' 1, 3921' 1/2, 4014' 1/4, 4107' 1/4, 4616' 1, 5110' 1.

Contractor Bit Record: 1- 14 3/4" out at 220'.
2- 7 7/8" out at 4616'.
3 -7 7/8" out at 5110'.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: One DST by Superior Testers Enterprises, LLC

Logged by Superior Well Services

LTD 5108'.

DSTs

DST #1 4524 to 4616' Times 30-60-60-120

1st Opening - weak blow, built to 3"

2nd Opening - weak blow, built to 1"

Recovery: 2' Mud

IFP 93-88# FFP 91-92#


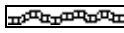
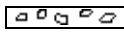
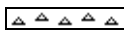
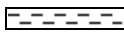








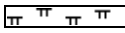

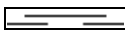







ISIP 152# FSIP 157#

IHP 2252# FHP 2154#















































































CREWS

H2 Drilling Rig #3
 Tool Pusher - Randy Smith
 Drillers - Gary Axtell
 Luis Marquez
 Cornelio Avalos

ROCK TYPES

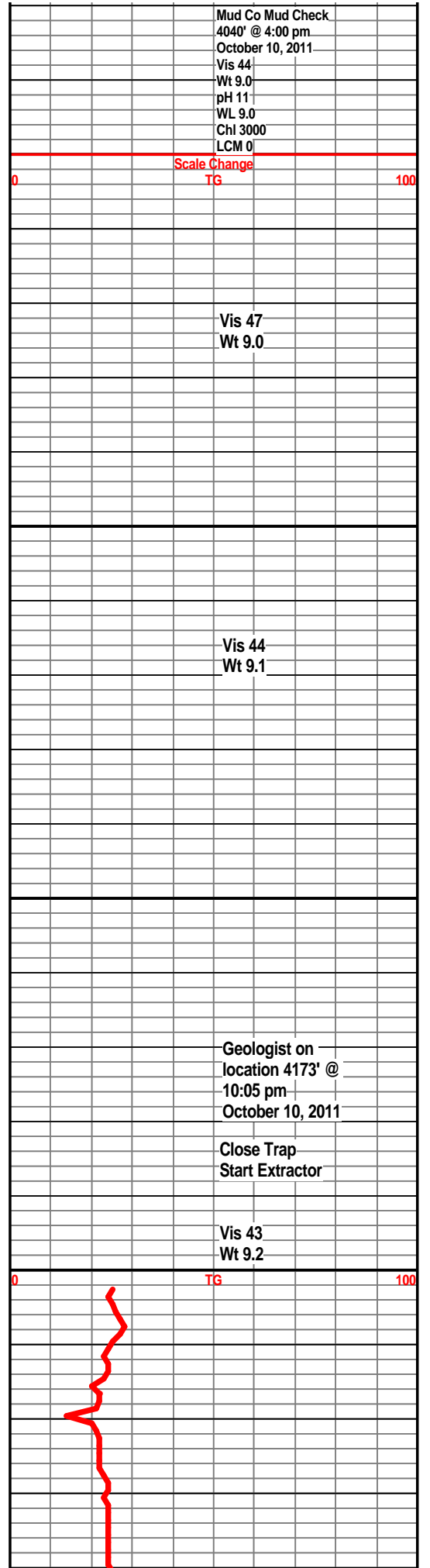
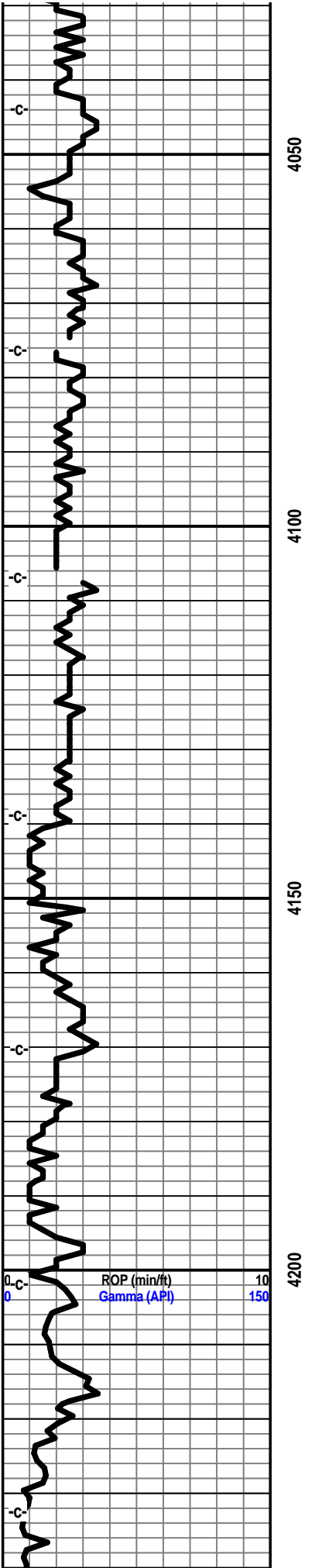
 Anhy  Bent  Brec  Cht  Clyst  Coal	 Congl  Sdy dolo  Shy dolo  Dol  Gyp  Sdy lmst	 Lmst  Mrlst  Salt  Shale  Sltst  Ss	 Black sh  Gry sh  Shale  Shyslstst  Sltysh
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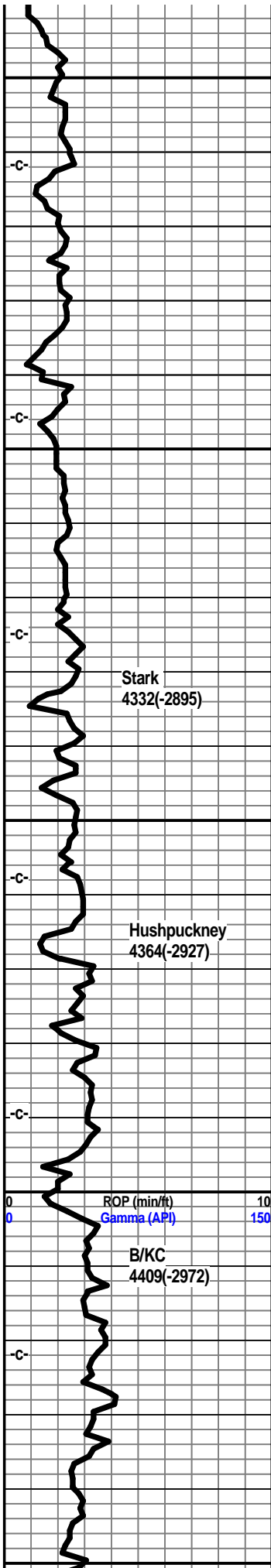
ACCESSORIES

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  Silty FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  Pisolite  Plant  Strom  Fuss  Oomoldic STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg  Carbsh  Clystn  Dol	 Grysh  Gryslt  Lms  Sandylms  Sh  Sltstn TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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Curve Track 1 ROP (min/ft) ——— Gamma (API) - - - -	Depth	Lithology	Geological Descriptions	TG, C1-C5
0 ROP (min/ft) 10 0 Gamma (API) 150	40	Oil Shows	Drilling Progress October 6, 2011, MIRT, Spud October 7, 2011, 220' @ 7:00 am WOC October 8, 2011, 1916' @ 7:00 am October 9, 2011, 2929' @ 7:00 am October 10, 2011, 3733' @ 7:00 am October 11, 2011, 4400' @ 7:00 am	TG (units) ——— C1 (units) ——— C2 (units) ——— C3 (units) ——— C4 (units) ——— C5 (units) ———
-C-				TG 200

October 12, 2011 4616' @ 7:00 am
 October 13, 2011 4850' @ 7:00 am
 October 14, 2011 5110' @ 7:00 am





4250
4300
4350
4400
450



Shale, grey, black, carb.

Limestone, tan-white, buff, xln, dense, chalky in part, some trace fossil frags.

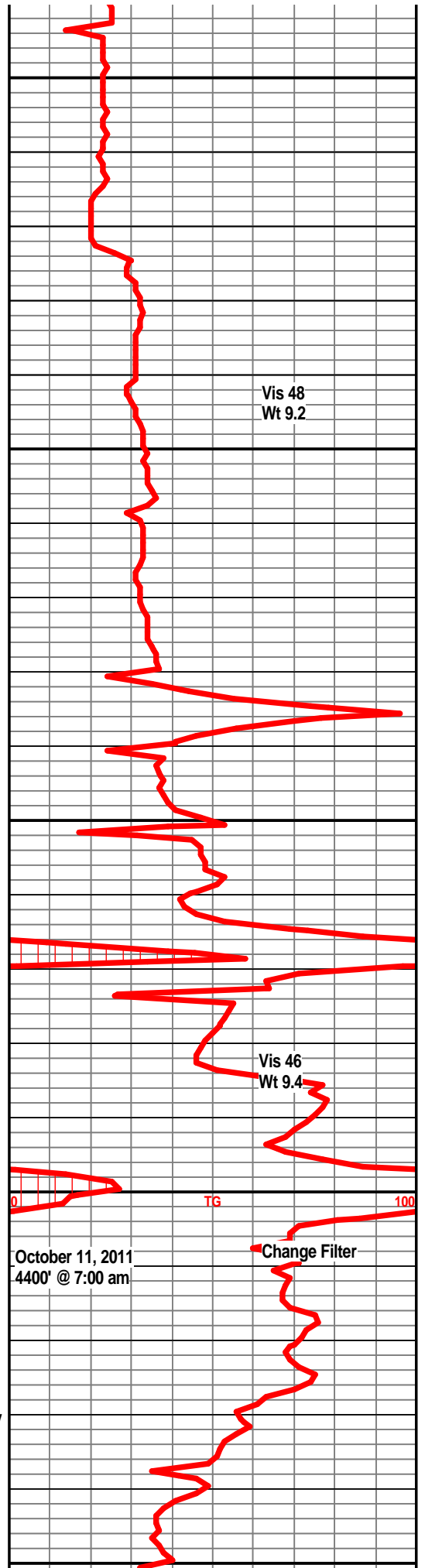
Shale, lt grey, silty.

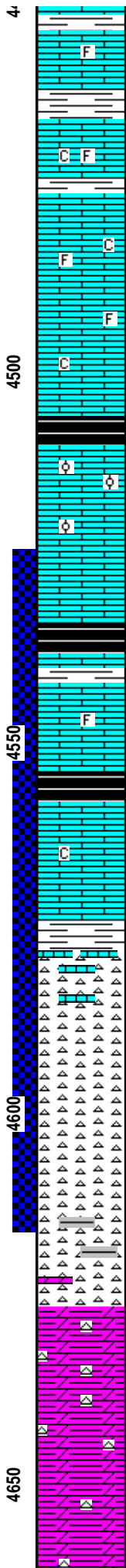
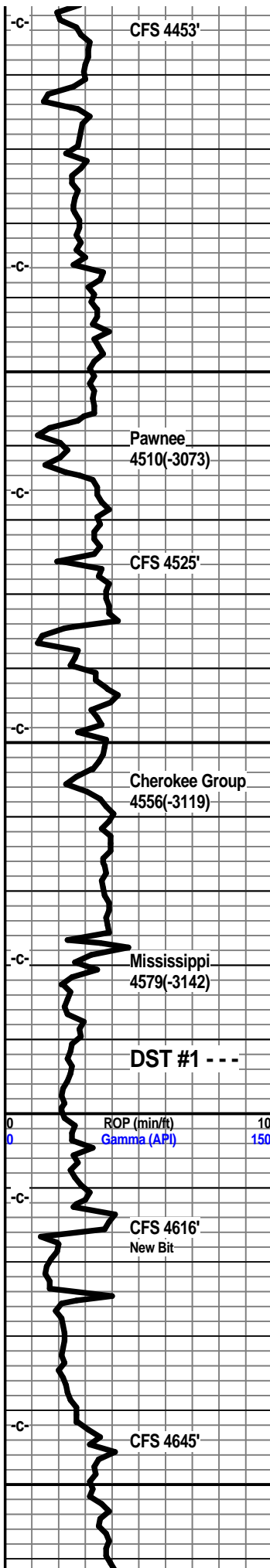
Limestone, grey-white, light green, xln, dense.

Shale, grey, green, soft to calcitic in part.

Limestone, grey, buff white, xln, dense, slightly foss, trace chalky in part.

Shale, light grey, light grey-green, calcitic.





Limestone, green, pale green, buff, xln, dense.

Limestone, grey-white, xln, dense, trace foss.

Shale, light grey.

Limestone, grey-white, buff, xln, slightly chalky, trace foss.

Shale, light grey.

Limestone, cream, buff-white, xln, partly dense, sub chalky in part, trace fossil frags.

Limestone, cream-white, buff, dense, trace foss, subchalky in part.

Shale, grey-black, carb.

Limestone, cream, buff, fxln, foss., oolites, trace oolitic porosity, trace xln, ppt porosity, very slight show gas bubbles, dull mineral fluor, no odor, no visible show of oil.

Shale, grey-black, carb.

Limestone, cream, tan-white, xln, dense.

Shale, grey-black

Limestone, grey-white, fxln, soft in part, sub chalky, trace foss.

Shale, light grey, grey.

Chert, white, grey-white, opaque, sharp to weathered, scattered ppt porosity, scattered light brown staining, fair odor, trace show of oil, scattered light fluor., very limy at top.

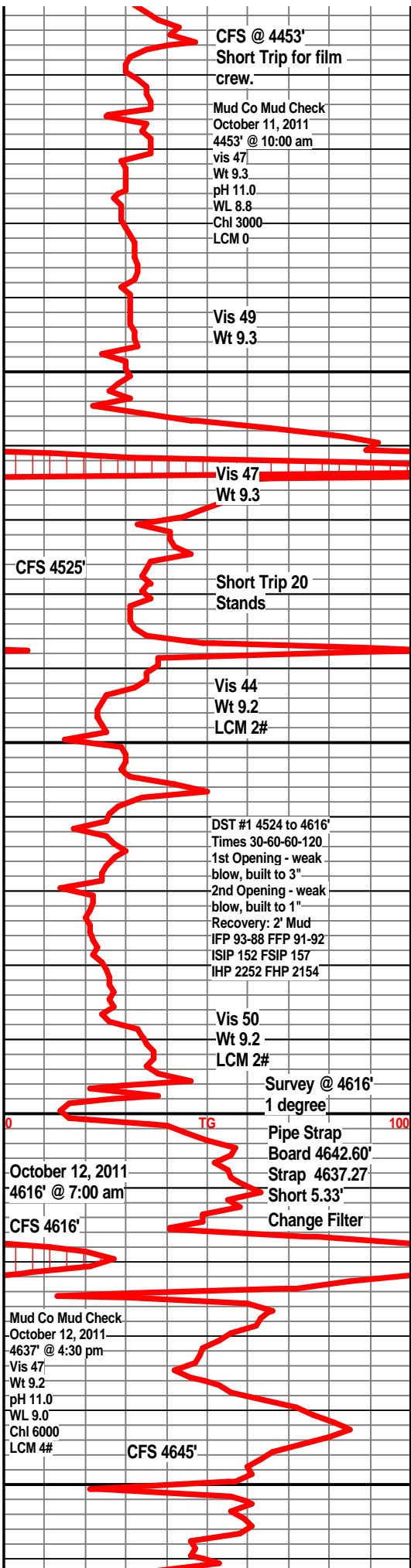
Chert, off-white, tan, sharp to weathered, ppt porosity, fair light brown staining, fair odor, very slight show oil, dull scattered fluor.

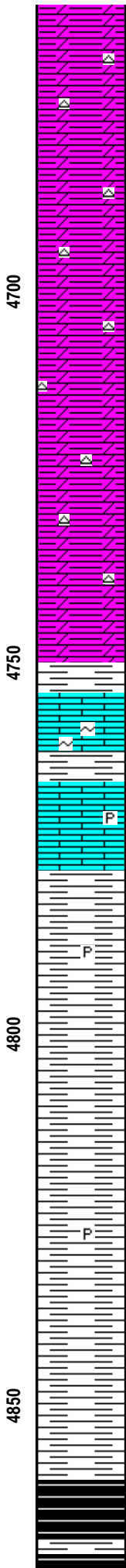
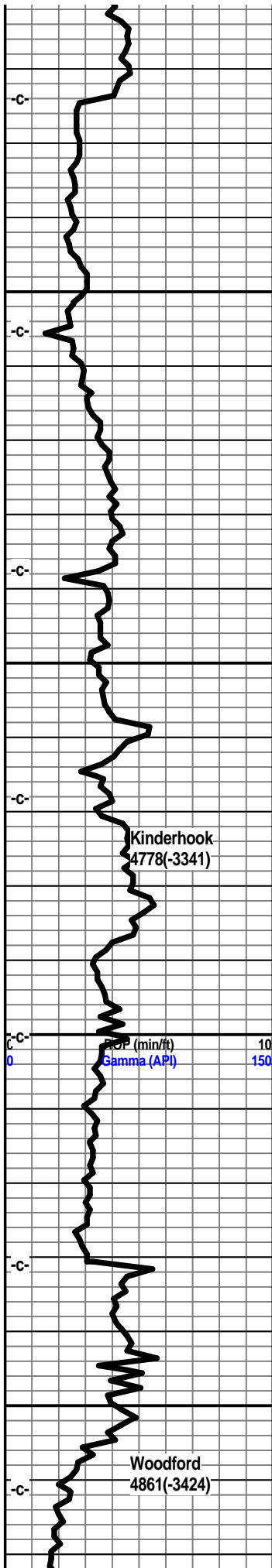
Chert a/a, increasing show of grey-green splintery shales.

Chert, off-white, tan, sharp to weathered, scattered ppt porosity, scattered light brown staining, fair odor, no visible shows of free oil or gas bubbles, scattered dull fluor., some grey-green splintery shales, slight traces of dolomite.

Dolomite, grey-white, fine grained, xln, scattered weathered cherts with light brown staining, grey-green splintery shales.

Dolomite, grey-white, xln, dense, cherty in part, sharp to weathered, some ith light scattered staining, grey-green splintery shales.





Dolomite, grey-white, tan-white, xln, dense, sharp translucent cherts, some grey green splintery shales, decreasing staining on cherts.

Dolomite, grey to tan-white, xln dense, sharp fresh cherts, traces of grey-green shales.

Dolomite, tan-white, grey, fxln, dense, fresh off-white cherts.

Dolomite, grey, fxln, dense, trace sharp chert, grey-green splintery shales.

Limestone, cream, buff-white, xln, trace glauc, sub chalky.

Shale, green, light grey.

Limestone, cream, buff-white, tan, xln, dense, trace pyrite.

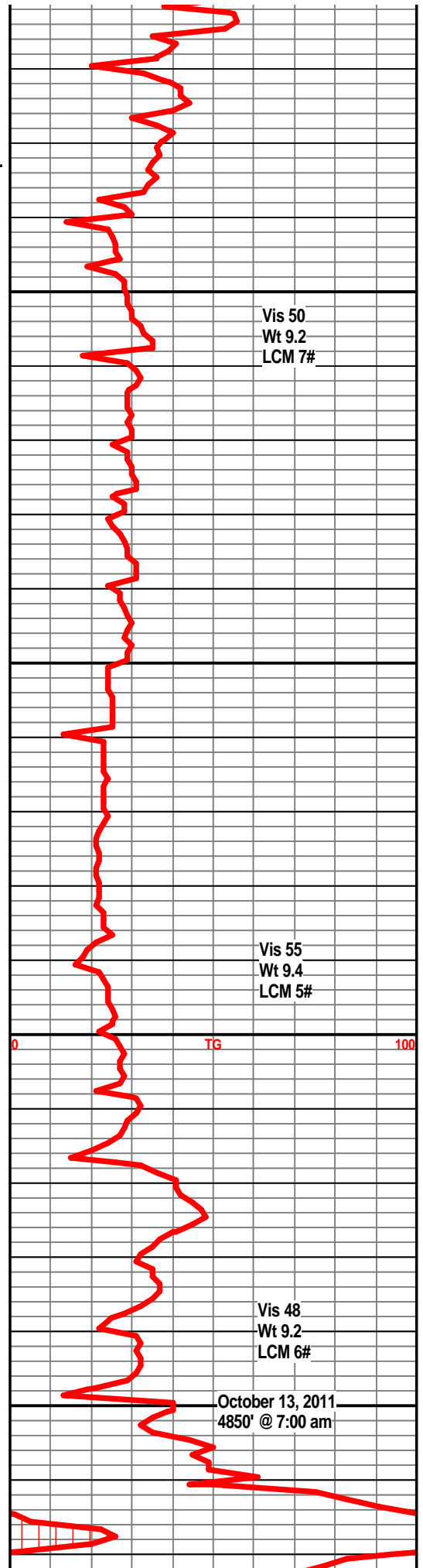
Shale, grey to dark grey, trace pyrite.

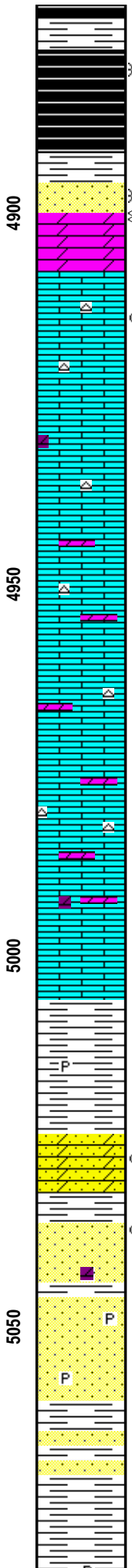
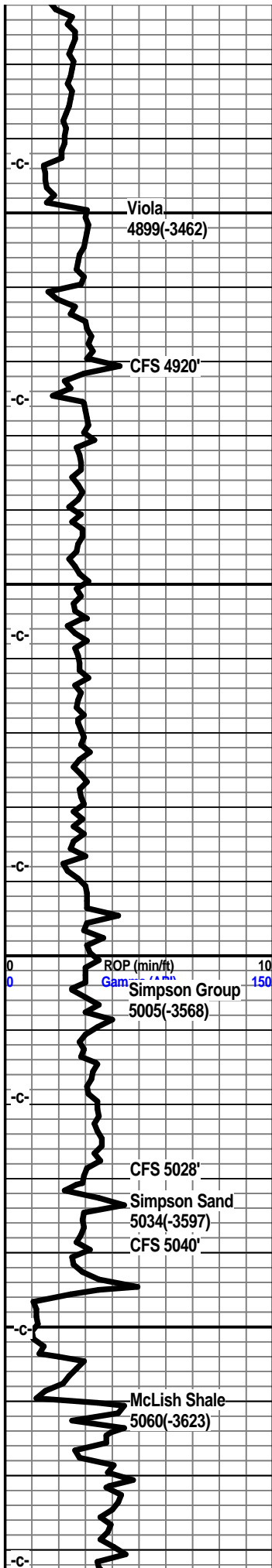
Shale, grey, dark grey, silty

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

Shale, grey, silty.

Shale, grey, grey-black, carb.





Shale, grey-black, carb, show gas bubbles.

Shale, gre, grey-black, carb, show gas bubbles.

Sandstone, grey, tan-white, sa to sr, poor sorting, shale inclusions, slightly friable, mostly well cemented, dirty, show of light oil, fair odor, slight show oil, spotty fluor.

Dolomite, grey, xln, soft, slightly limesy in part.

Limestone, off-white, grey, xln, trace ppt porosity, dark scattered staining, faint odor, slight show dark oil, dull scattered fluor., slight show light oil under UV

Limestone, cream-white, tan, fxln, traces of ppt porosity, sub chalky, slight trace white chert.

Limestone, tan, buff-white, fxln, dense, traces of tan sharp chert, slightly dolo in part.

Limestone, tan-white, buff, fxln, dense, sharp tan cherts, slightly dolomitic in part.

Limestone, tan, tan-white, buff, xln, dense, speckled, tan sharp cherts, slightly dolo in part.

Limestone, tan, fxln, grainular, tan sharp cherts.

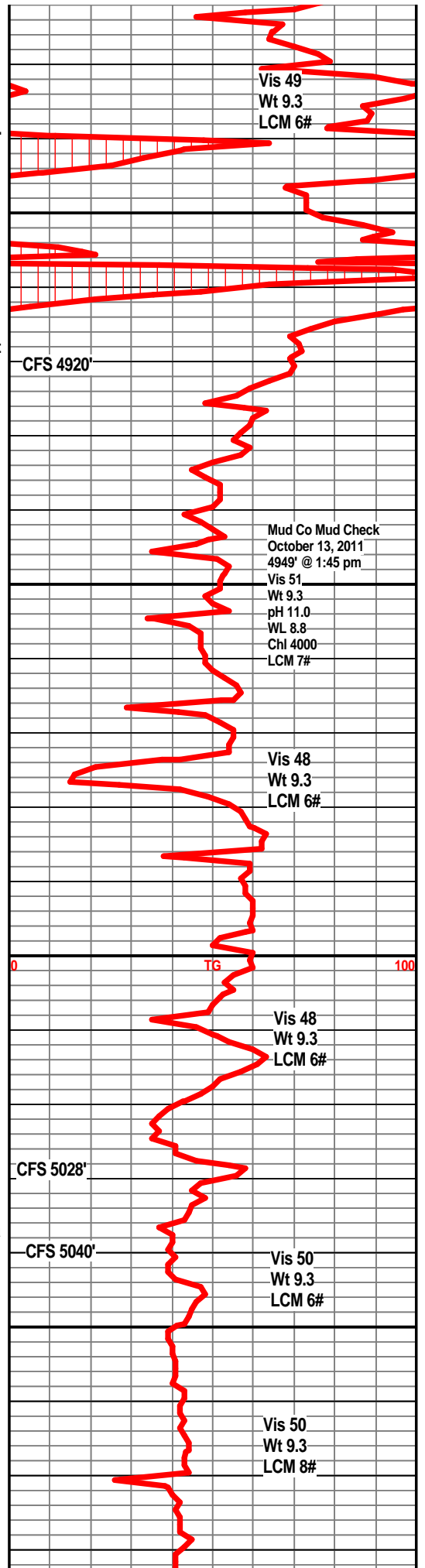
Shale, grey-green, firm, waxey, trace of pyrite, some embedded sand grains.

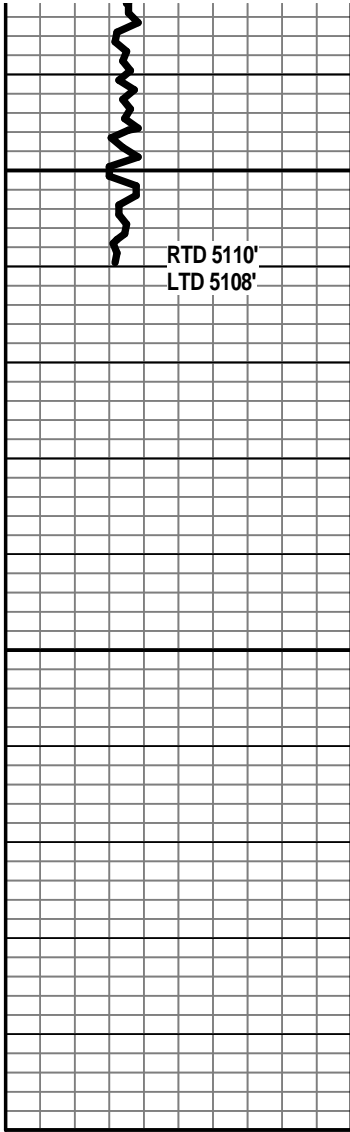
Sandstone, grey-white, dolomitic, some friable mostly well cemented, very faint show light oil, dull spotted fluor.

Sandstone, clear to white frosted qtz grains, sa to sr, fair sorting, friable in part, some well cemented, light show of oil when cluster broken, spotty fluor., very faint odor.

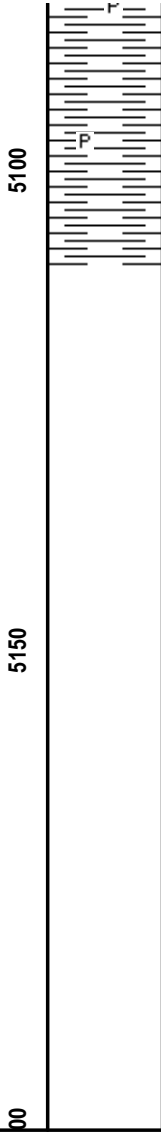
Sandstone, clear to white, sr to sa good sorting, friable, fine grained, clean, no visible shows, no odor, no fluor, slightly dolo in part, trace of pyrite, trace of gilsonite.

Shale, dark green, firm, waxey, traces of pyrite.





RTD 5110'
LTD 5108'



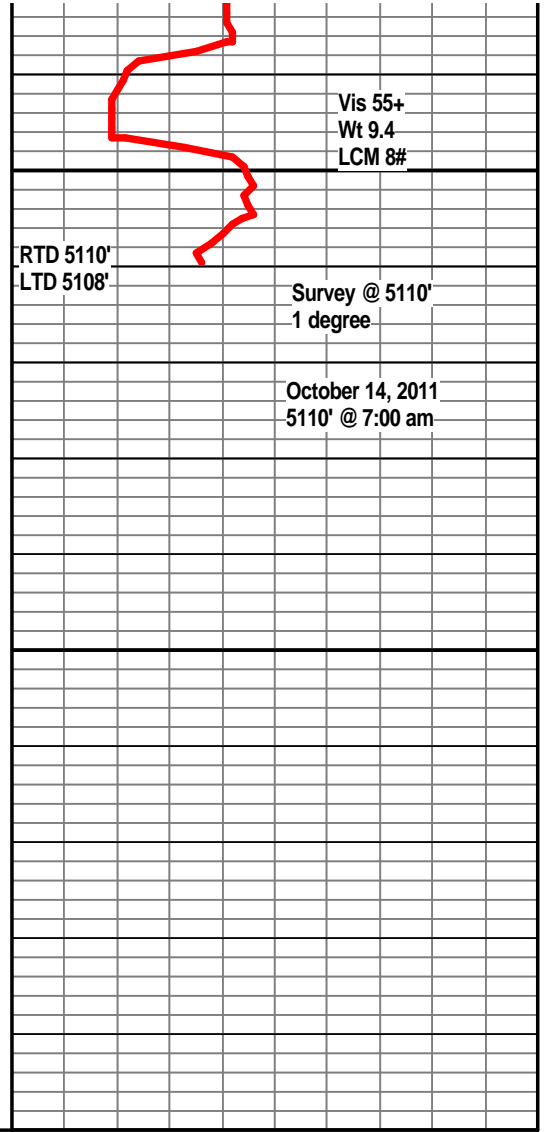
5100

5150

00

Shale, dark green, firm.

Shale, dark green, firm.



RTD 5110'
LTD 5108'

Vis 55+
Wt 9.4
LCM 8#

Survey @ 5110'
1 degree

October 14, 2011
5110' @ 7:00 am