



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1072486
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: _____

1072486

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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Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	FORESTER D 3
Doc ID	1072486

Tops

Name	Top	Datum
CHASE	1780	-363
ONAGA	2629	-1212
ELGIN SD	3497	-2080
HEEBNER	3642	-2225
DOUGLAS	3677	-2260
SWOPE LS	4338	-2921
MISSISSIPPIAN	4582	-3165
VIOLA	4903	-3486
SIMPSON	4996	-3579

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

January 23, 2012

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

Re: ACO1
API 15-007-23771-00-00
FORESTER D 3
SW/4 Sec.01-34S-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. 040269

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge, KS

DATE <u>10-4-2011</u>	SEC. <u>1</u>	TWP. <u>34</u>	RANGE <u>11</u>	CALLED OUT <u>1:00pm</u>	ON LOCATION <u>3:30pm</u>	JOB START <u>7:00pm</u>	JOB FINISH <u>8:00pm</u>
LEASE <u>Forester</u>	WELL# <u>D-3</u>	LOCATION <u>281 1/2 Goring Blk TP, East to Bethel Rd, 1/2 way, Vessie, Minco</u>			COUNTY <u>Berber</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)							

CONTRACTOR H2 #3
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5120'
 CASING SIZE 5 1/2 IS. 50# DEPTH 4977'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 44
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 120 bbls of 2% KCL w/ water

OWNER Woolsey Operating
 CEMENT
 AMOUNT ORDERED 75 sx 60:40:40 601
120 sx Class. H + 10% abrot + 10% ssit
6# Kolses / + .8% FL160 + 1/4 # of losses
13 gals CR pro
 COMMON A 45 sx @ 16.25 731.25
 POZMIX 30 sx @ 8.50 255.00
 GEL 3 @ 21.25 63.75
 CHLORIDE @ _____
 ASC @ _____
H 120 sx @ 22.15 2658.00
Gypseal 12 sx @ 34.20 410.40
Salt 13 sx @ 12.00 156.00
Kolsal 720 # @ .89 640.80
FL-160 90 # @ 17.20 1548.00
Floesal 30 # @ 2.70 81.00
Clayco 12 Gal @ 31.25 375.00
 @ _____
 HANDLING 241 @ 2.25 542.25
 MILEAGE 241 / 15 / 11 397.65
 TOTAL 7859.10

EQUIPMENT

PUMP TRUCK CEMENTER Derin F
 # 360-265 HELPER Jason T.
 BULK TRUCK
 # 363-290 DRIVER Adam M.
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Pipe on bottom a break circled on mix 25% for Rqz hole, mix 50% of sequeencer cement mix 120% of tsit cement, shut down, wash pump & liner, Release plug, Start displacement 1.1 ft pressure @ 85 bbls, Slow rate to 3 bpm 92-110 bbls, Bump plug @ 120 bbls @ 1500 PSI, float bit hold

SERVICE

DEPTH OF JOB 4977'
 PUMP TRUCK CHARGE 2495.00
 EXTRA FOOTAGE @ _____
 MILEAGE 30 @ 7.00 210.00
 MANIFOLD Heck rents @ 200.00
light vehicle 30 @ 4.00 120.00
 @ _____

TOTAL 3025.00

PLUG & FLOAT EQUIPMENT

5 1/2
 1- RFD Flcs + Shoe @ 349.00
 1- Latch Down Plug @ 277.00
 10- Turbhalizers @ 80.00 800.00
 20- scrteners @ 76.00 1520.00
 @ _____

TOTAL 2946.00

SALES TAX (If Any) _____
 TOTAL CHARGES 13,830.10
 DISCOUNT 20% IF PAID IN 30 DAYS

NET 11,064.08

WELL FILE
 CHARGE TO: Woolsey Operating
 STREET _____
 CITY _____ STATE _____ ZIP _____
 Regulatory Correspondence
 Drg / Comp Workovers
 Tests / Meters Operations

NOV 10 2011

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!!!



DRILL STEM TEST REPORT

Woolsey Operating LLC.
 125 North Market Street
 Suite 1000 Witchia Kansas
 67202+1729
 ATTN: Scott Alberg

Forester D-3
1/34S/11W Barber Co.
 Job Ticket: 18678 **DST#: 1**
 Test Start: 2011.10.01 @ 08:51:00

GENERAL INFORMATION:

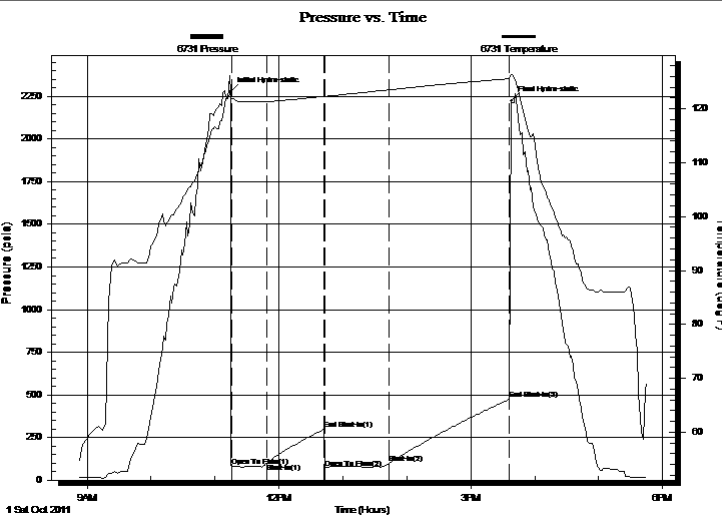
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:20:30
 Time Test Ended: 18:07:30
 Interval: **4524.00 ft (KB) To 4615.00 ft (KB) (TVD)**
 Total Depth: 4615.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345/Great Bend/196
 Reference Elevations: 1417.00 ft (KB)
 1408.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6731

Inside

Press @ Run Depth: 473.26 psia @ 4611.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.10.01 End Date: 2011.10.01 Last Calib.: 2011.10.01
 Start Time: 08:51:00 End Time: 17:45:00 Time On Btm: 2011.10.01 @ 11:14:30
 Time Off Btm: 2011.10.01 @ 15:38:00

TEST COMMENT: 1ST Opening 30 Minutes strong blow /blow blew to bottom of bucket of water in 4 minutes
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 60 Minutes very strong blow /blow blew to bottom of bucket in 30 seconds
 2ND Shut-In 120 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2277.53	122.98	Initial Hydro-static
2	79.47	121.86	Open To Flow (1)
34	98.48	121.32	Shut-In(1)
88	296.80	122.33	End Shut-In(1)
89	68.49	122.29	Open To Flow (2)
149	97.56	123.51	Shut-In(2)
262	473.26	125.56	End Shut-In(2)
264	2223.74	126.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Drilling Mud	0.30
0.00	310' Feet Gas in the pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating LLC.

Forester D-3

125 North Market Street
 Suite 1000 Witchia Kansas
 67202+1729
 ATTN: Scott Alberg

1/34S/11W Barber Co.

Job Ticket: 18678 **DST#: 1**
 Test Start: 2011.10.01 @ 08:51:00

Tool Information

Drill Pipe:	Length: 4195.00 ft	Diameter: 3.80 inches	Volume: 58.84 bbl	Tool Weight: 2000.00 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: 309.65 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 60.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.65 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4524.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 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
Change Over Sub	1.00			4496.00	
Shut-In Tool	5.00			4501.00	
Hydroic Tool	5.00			4506.00	
Jars	6.00			4512.00	
Safety Joint	2.00			4514.00	
Packer	5.00			4519.00	29.00 Bottom Of Top Packer
Packer	5.00			4524.00	
Perforations	5.00			4529.00	
Change Over Sub	0.75			4529.75	
Drill Pipe	62.50			4592.25	
Change Over Sub	0.75			4593.00	
Perforations	17.00			4610.00	
Recorder	1.00	6731	Inside	4611.00	
Recorder	1.00	6666	Outside	4612.00	
Bullnose	3.00			4615.00	91.00 Bottom Packers & Anchor

Total Tool Length: 120.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating LLC.

Forester D-3

125 North Market Street
 Suite 1000 Witchia Kansas
 67202+1729
 ATTN: Scott Alberg

1/34S/11W Barber Co.

Job Ticket: 18678

DST#: 1

Test Start: 2011.10.01 @ 08:51:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 48.00 sec/qt
 Water Loss: 9.20 in³
 Resistivity: ohm.m
 Salinity: 3000.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psia

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Drilling Mud	0.305
0.00	310' Feet Gas in the pipe	0.000

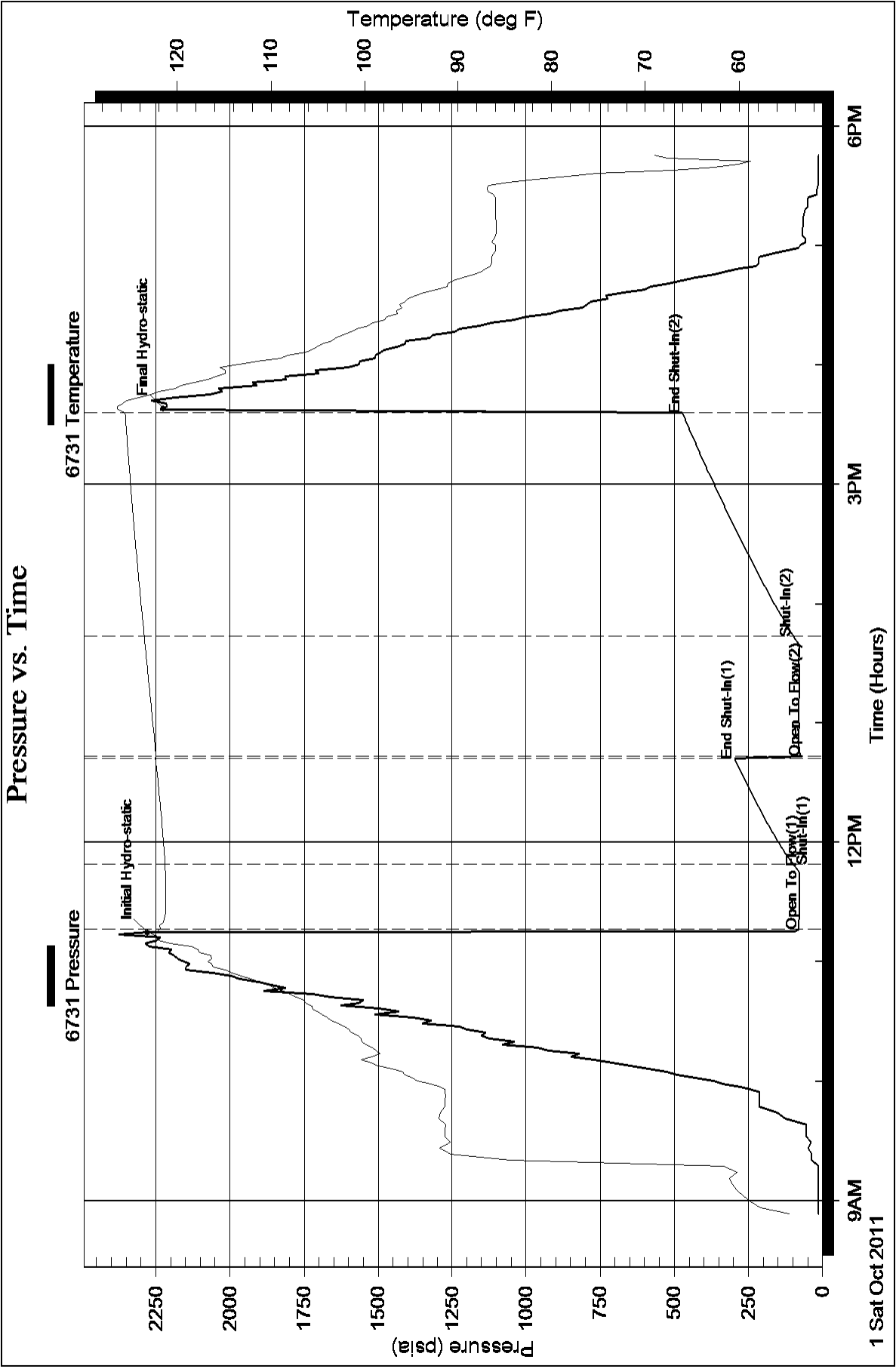
Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Woolsey Operating LLC.

Forester D-3

125 North Market Street
Suite 1000 Witchia Kansas
67202+1729
ATTN: Scott Alberg

1/34S/11W Barber Co.

Job Ticket: 18679

DST#: 2

Test Start: 2011.10.03 @ 04:00:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/196

Interval: 4979.00 ft (KB) To 5011.00 ft (KB) (TVD)

Reference Elevations: 1417.00 ft (KB)

Total Depth: 5011.00 ft (KB) (TVD)

1408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6731

Inside

Press @ RunDepth: 166.99 psia @ 5007.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.10.03

End Date: 2011.10.03

Last Calib.: 2011.10.03

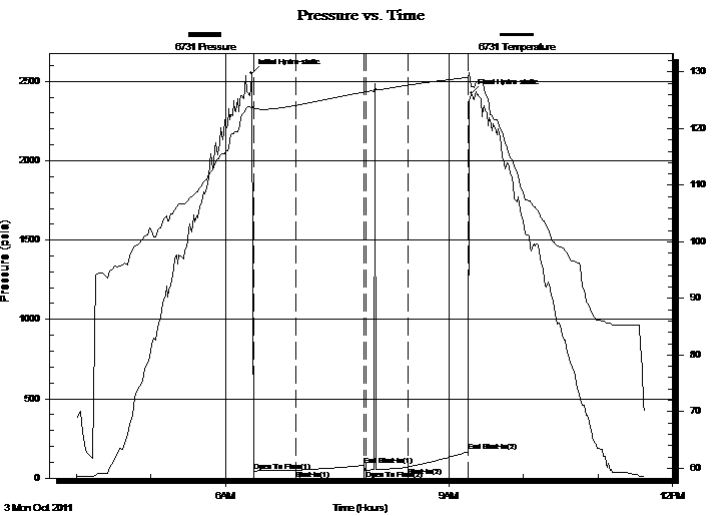
Start Time: 04:00:00

End Time: 11:37:30

Time On Btm: 2011.10.03 @ 06:21:00

Time Off Btm: 2011.10.03 @ 09:18:00

TEST COMMENT: 1ST Opening 30 Minutes opened tool/very weak surface blow /stayed the same all throughout opening
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 30 Minutes opened tool/blow dead/flushed tool/good surge/no help/stayed dead
 2ND Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2551.50	123.69	Initial Hydro-static
2	44.41	123.51	Open To Flow (1)
36	49.73	124.10	Shut-In(1)
91	80.25	126.46	End Shut-In(1)
92	51.13	126.51	Open To Flow (2)
126	70.77	127.68	Shut-In(2)
175	166.99	129.06	End Shut-In(2)
177	2425.29	127.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drilling Mud 100%	0.15

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Operating LLC.

Forester D-3

125 North Market Street
Suite 1000 Witchia Kansas
67202+1729
ATTN: Scott Alberg

1/34S/11W Barber Co.

Job Ticket: 18679

DST#: 2

Test Start: 2011.10.03 @ 04:00:00

Tool Information

Drill Pipe:	Length: 4664.00 ft	Diameter: 3.80 inches	Volume: 65.42 bbl	Tool Weight:	2000.00 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: 309.65 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose:	57000.00 lb
			<u>Total Volume: 66.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.65 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4979.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	61.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: Charge for a large packer.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4951.00	
Shut-In Tool	5.00			4956.00	
Hydroic Tool	5.00			4961.00	
Jars	6.00			4967.00	
Safety Joint	2.00			4969.00	
Packer	5.00			4974.00	29.00 Bottom Of Top Packer
Packer	5.00			4979.00	
Perforations	27.00			5006.00	
Recorder	1.00	6731	Inside	5007.00	
Recorder	1.00	6666	Outside	5008.00	
Bullnose	3.00			5011.00	32.00 Bottom Packers & Anchor

Total Tool Length: 61.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating LLC.

Forester D-3

125 North Market Street
 Suite 1000 Witchia Kansas
 67202+1729
 ATTN: Scott Alberg

1/34S/11W Barber Co.

Job Ticket: 18679

DST#: 2

Test Start: 2011.10.03 @ 04:00:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 47.00 sec/qt
 Water Loss: 8.80 in³
 Resistivity: ohm.m
 Salinity: 4000.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psia

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drilling Mud 100%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

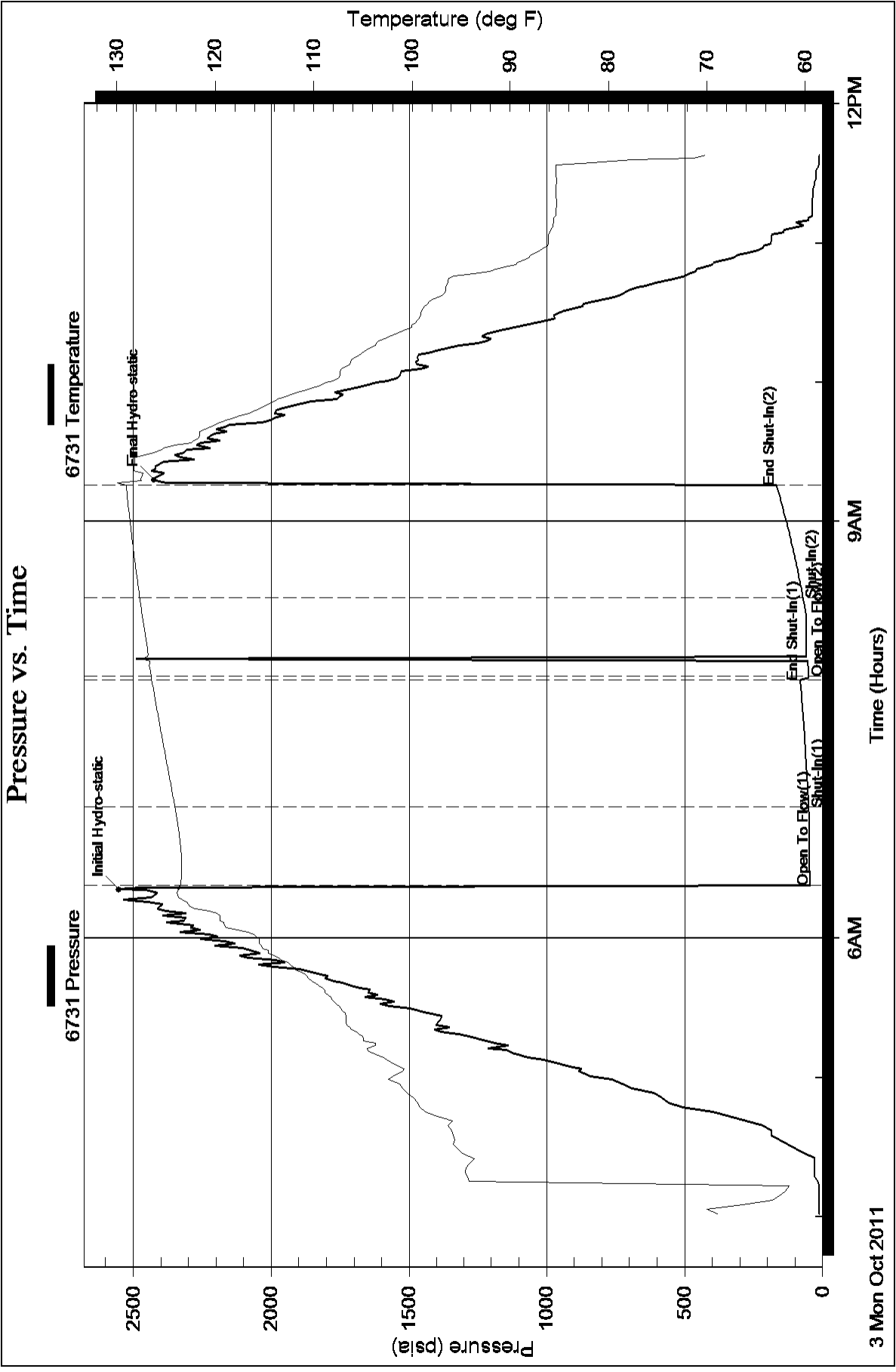
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Forester D-3
Location: N2 SW SW SW
License Number: API: 15-007-23771-00-00
Spud Date: September 26, 2011
Surface Coordinates: 330' FSL, 330' FWL Section 1-Twp 34 South - Rge 11 West
Roundup South Pool
Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 1408 K.B. Elevation (ft): 1417
Logged Interval (ft): 4000 To: 5120 Total Depth (ft): 5120
Formation: McLish Shale
Type of Drilling Fluid: Chemical Mud, Displace at 3395'

Region: Barber County, Kansas

Drilling Completed: October 4, 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	4330(-2916)	4326(-2912)
HUSHPUCKNEY SHALE	4362(-2945)	4358(-2941)
B/KC	4411(-2994)	4410(-2993)
PAWNEE	4507(-3090)	4506(-3089)
MISSISSIPPIAN	4586(-3164)	4580(-3158)
KINDERHOOK SHALE	4770(-3353)	4776(-3359)
WOODFORD SHALE	4858(-3441)	4859(-3442)
VIOLA	4895(-3478)	4903(-3486)
SIMPSON GROUP	4993(-3576)	4996(-3579)
SIMPSON WILCOX	5008(-3591)	5016(-3600)
MCLISH SHALE	5080(-3663)	5078(-3661)
RTD	5120(-3703)	
LTD		5119(-3702)

COMMENTS

Surface Casing: Set 5 joints 10 3/4" at 213' with 240 sxs Class A, 2% gel, 3% cc, plug down at 11:15 am on September 26, 2011. Cement did Circulate.

Production Casing: .

Deviation Surveys: 220' 1 1/4, 1229' 1/2, 1728' 1/4, 2232' 1, 2703' 3/4, 3206' 1, 3710' 1/2, 3897' 1 1/4, 4019' 3/4 degree, 4207' 3/4, 4615' 1/4, 5120' 3/4.

Contractor Bit Record: 1- 14 3/4" out at 220'.

2- 7 7/8" out at 4615'.

3 -7 7/8" out at 5120'.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Brad Bortz, Engineer

DSTs: Two DST's by Superior Testers Enterprises, LLC

Logged by Superior Well Services

LTD 5119'.

DSTs

DST #1 4524 to 4616

Times 30-60-60-120

1st Opening, strong blow, BOB 11 minutes.

2nd Opening, strong blow, BOB 30 seconds, No GTS.

Recovery: 310' GIP, 62' Drilling Mud

IHP 2271# FHP 2245#

IFP 77-80# FFP 66-84#

ISIP 297# FSIP 471#

DST #2 4979 to 5011, Times 30-60-30-60

1st Opening weak blow throughout

2nd Opening no blow, flushed tool, no help

Recovery: 30' Drilling Mud

IHP 2552# FHP 2425#

IFP 44-50# FFP 51-71#

ISIP 80# FSIP 167#

CREWS

H2 Drilling Rig #3


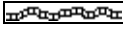
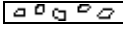

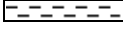

Tool Pusher - Randy Smith


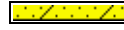




Drillers - Gary Axtell


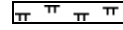
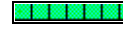
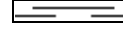


Luis Marquez






Cornelio Avalos

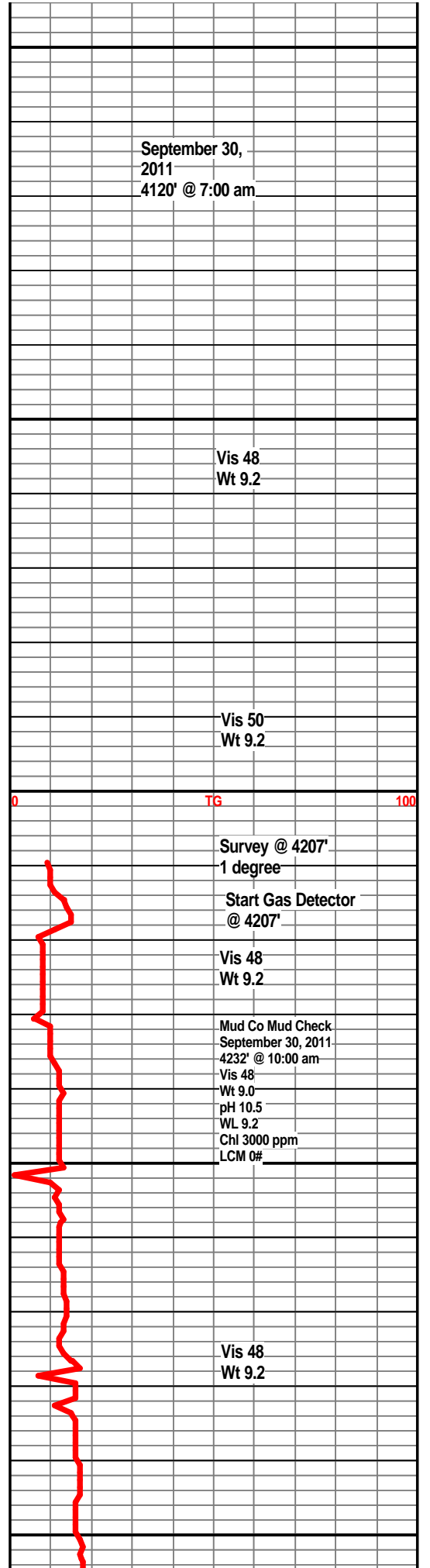
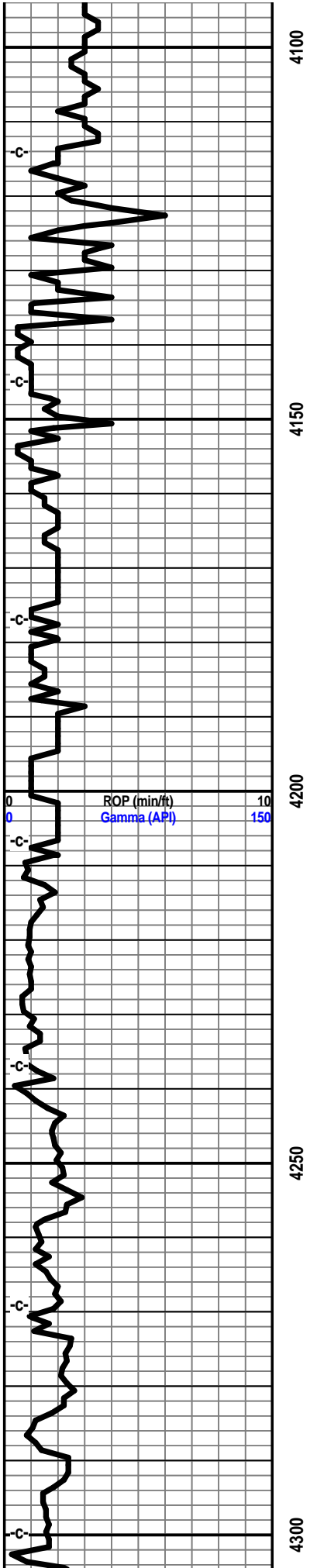
ROCK TYPES

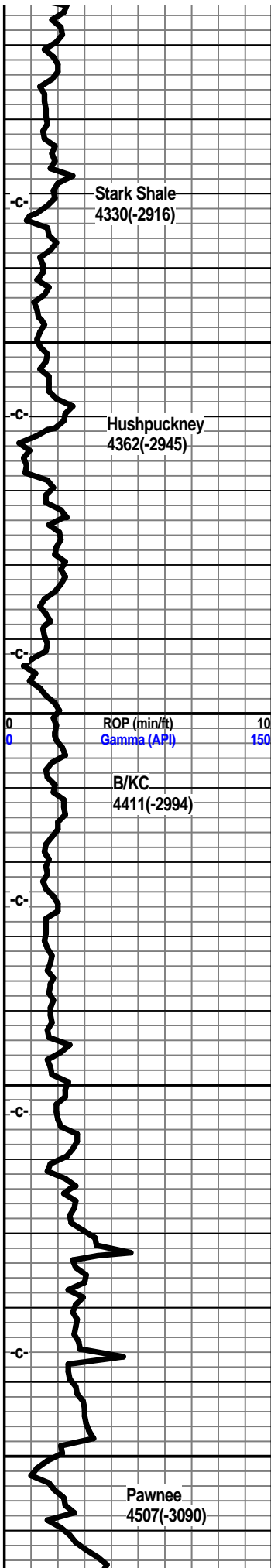
 Anhy
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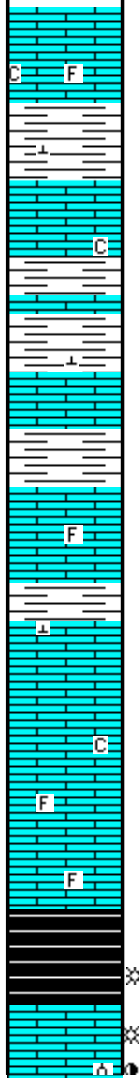


4350

4400

4450

4500



Limestone, buff-white, tan, fxln, dense, slightly foss., trace chalky.

Shale, grey-green, calcitic.

Limestone, grey-green, xln, slightly shaley.

Shale, light grey-green, calcitic.

Limestone, cream, grey-green, xln, dense, shaley.

Shale, light grey, green, calcitic.

Limestone, tan, cream, xln, dense, slightly foss, trace chalky.

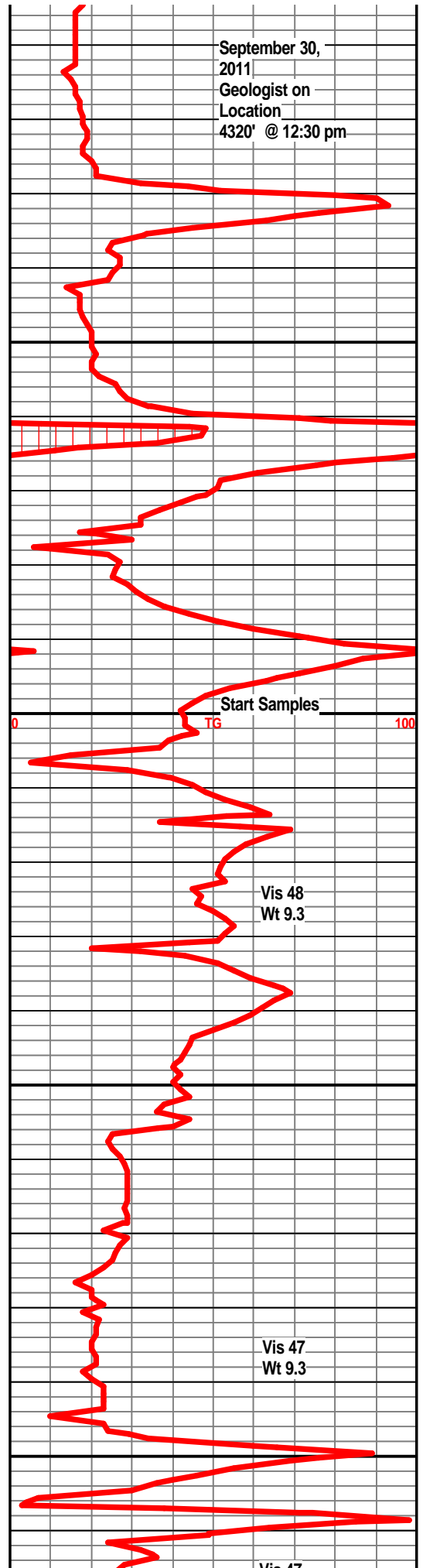
Shale, light grey.

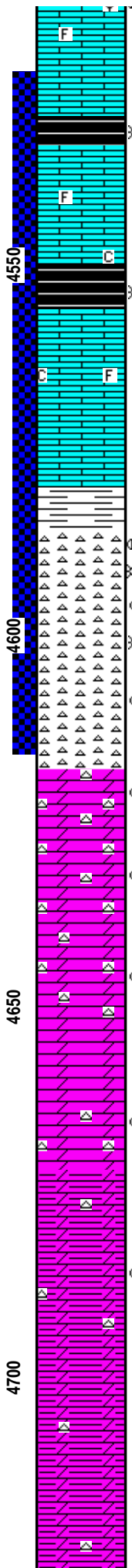
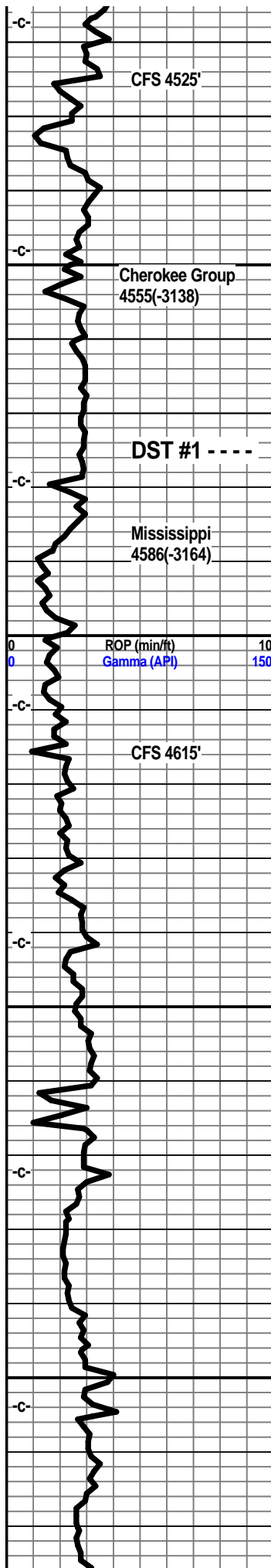
Limestone, cream, buff-white, xln, dense, trace foss, chalky in part.

Limestone, tan, buff-white, xln dense, slightly foss, chalky in part.

Shale, grey-black, carb.

Limestone, creamy-white, buff, xln, trace ppt





porosity, traces of oolites, poor porosity, faint odor, very slight show light oil, slight show of gas, dull scattered fluor.

Shale, grey-black, carb.

Limestone, cream, tan-white, xln, dense, slightly foss, trace chalky.

Shale, grey-black, slightly carb.

Limestone, tan, grey, fxln, slightly foss, subchalky in part.

Limestone, buff, tan, xln, dense, slightly foss, shaley towards base.

Shale, grey-green, traces of sand inclusions.

Chert, white, off-white, tan, translucent, sharp to weathered, scattered small vugs, scattered light brown staining, slight show light brown oil, traces of gas bubbles, poor to fair odor, scattered dull fluor.

Chert, white, off-white, translucent, pale green, sharp to weathered, some trip in part, scattered light brown staining, scattered small vugs, slight show light brown oil, slight gas show, poor to fair odor, scattered dull yellow fluor.

Dolo, tan, grey-white, xln, succ. texture, offwhite to tan weathered to sharp cherts, some light brown staining, slight odor, spotty shows of oil, dull fluor.

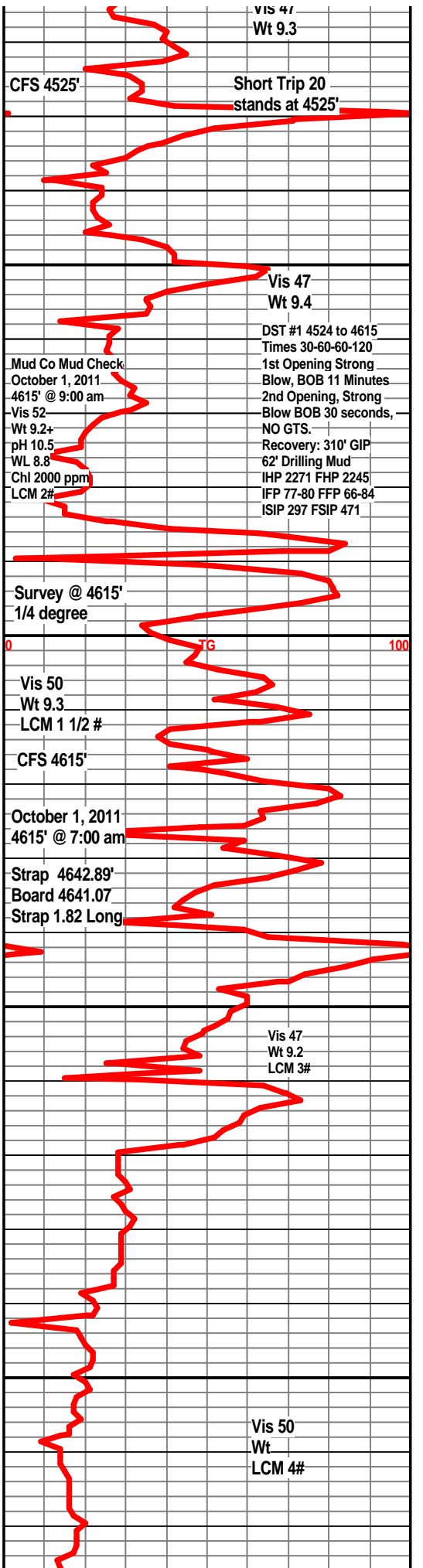
Dolo, grey-white, tan, xln, sharp to weathered cherts with scattered brown staining, slight show oil, slight odor, dull fluor.

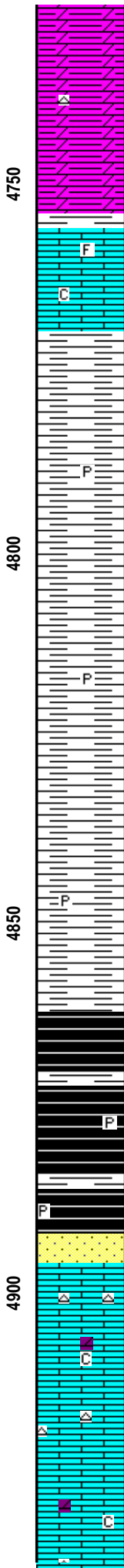
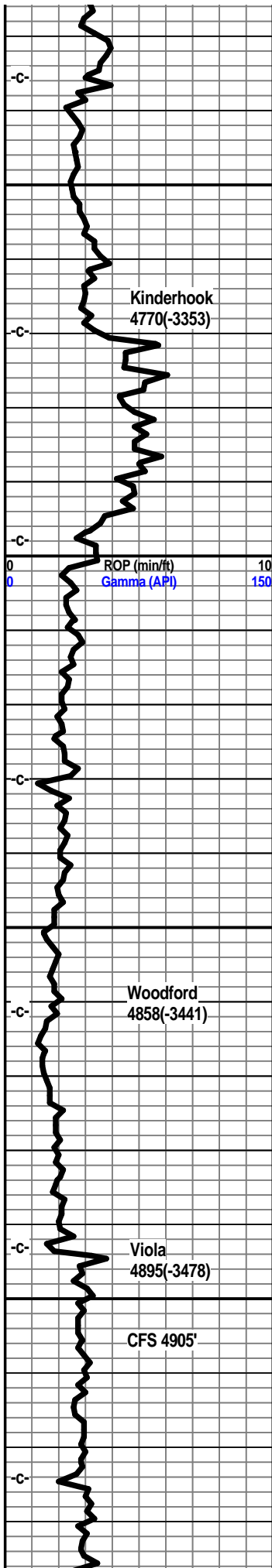
Dolo, grey-white, xln, weathered to sharp cherts, light brown scattered staining, slight odor, slight show oil and gas, dull scattered fluor.

Dolo, grey white, xln, grey-green shales, weathered cherts, slight staining, faint odor.

Dolo, grey, xln, light to dark grey shales, scattered weathered cherts with slight light staining.

Dolo, grey-white, xln, grey to dark grey shales, traces of pyrite, cherts.





Dolo, grey white, xln, grey shales.

Dolo, grey white, xln, grey-green shales.

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

Shale, light grey to grey, traces of pyrite.

Shale, light grey to grey, splintery, silty in part, traces of pyrite.

Shale, grey to dark grey, splintery, silty in part.

Shale, grey, silty, traces of pyrite.

Shale, dark grey, silty.

Shale, dark grey-black, slight show gas bubbles, traces of pyrite.

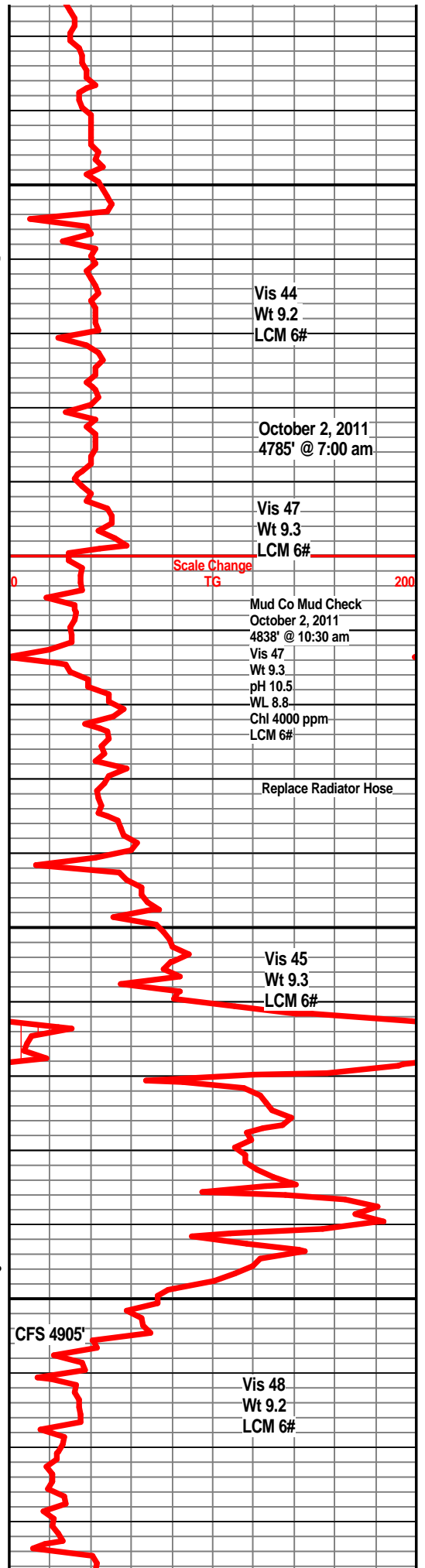
Shale, grey-black, some coffee brown, trace show gas bubble, carb.

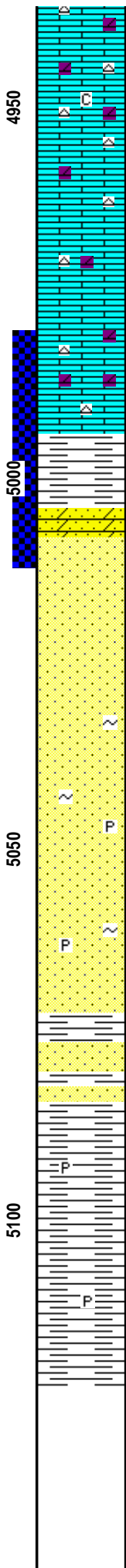
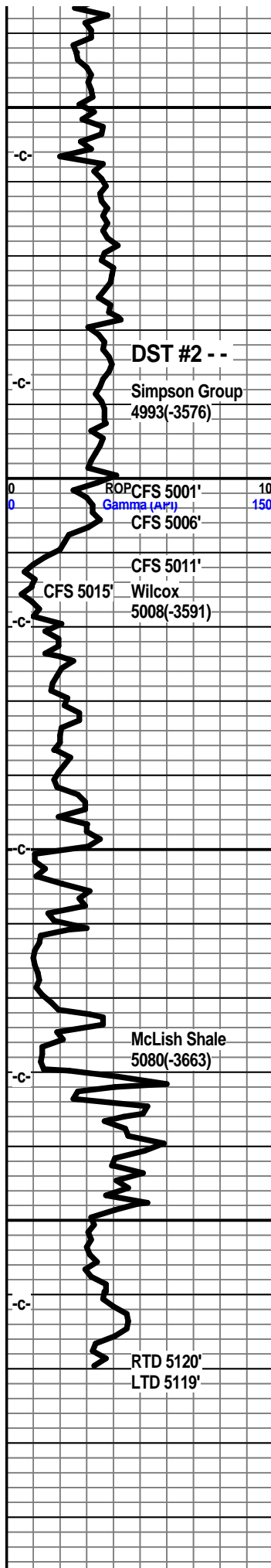
Sandstone, clear to grey-white, sa, mostly well cemented, shale inclusions, scattered show of light oil under UV, ??? odor

Limestone, cream-white, buff, xln, dense, dolo in part, translucent to off-white chert, subchalky in part, no visible shows.

Limestone, cream, buff-white, xln, some xln porosity, trace show light oil in few samples, no odor, no gas show, dull spotty fluor, some chalk, no odor.

Limestone, a/a, some tan dolo ls.





Limestone, tan, buff-white, fxln, dense, sl. dolo, traces of white chalky limestone, tan sharp cherts.

Limestone, tan, buff, xln, dense, tan cherts, dolo in part.

Limestone, tan, buff, fxln, dense, tan sharp cherts, slightly dolo in part.

Limestone, tan, buff, fxln, dense, specked, tan sharp cherts, slightly dolo.

Limestone, tan, buff, fxln, dense, sharp tan specked cherts, some granular ls., dolo in part.

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

Dolo sand, tan, grey, well cemented, gluac, med grained, tite, no shows.

Sandstone, clear to white frosted qtz grains, sa to sr, friable, fair odor, fair show light oil, free oil in tray, some bleeding oil & gas. slight gas indication, good bright fluor. (5011 cfs)

Sandstone, clear to grey white, some tan sa to sr qtz grains, friable, very slight show oil, no odor, except when broken, shows decreasing from above, mostly clean clusters with no shows. Spotty fluor. (5015' cfs)

Sandstone, clear to grey, some tan, sa to sr, friable in part, some dolomitic, slight trace of oil, no odor, trace pyrite, gluac., some shale inclusions.

Sandstone, clear to grey, frosted, friable in part, some well cemented, dolomitic in part, trace gluac, ??? show oil, no odor.

Sandstone, clear to frosted white qtz grains, sa to sr, friable, gluac, no visible shows, no odor, traces of pyrite.

Shale, dark green, green, firm, blocky, traces of pyrite, some embedded sand grains.

Shale, green, light grey green, firm, waxey, blocky.

Shale, grey-green, firm, traces of pyrite.

