



KANSAS CORPORATION COMMISSION 1110884  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34352  
Name: N-10 Exploration, LLC  
Address 1: 124 N MAIN  
Address 2: PO BOX 195  
City: ATTICA State: KS Zip: 67009  
Contact Person: Randy Newberry  
Phone: (620) 254-7251  
CONTRACTOR: License # 33902  
Name: Hardt Drilling LLC  
Wellsite Geologist: Tim Pierce  
Purchaser:

Designate Type of Completion:

- New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SIOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:

Operator:  
Well Name:  
Original Comp. Date: Original Total Depth:  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:  
10/29/2012 11/6/2012 11/21/2012  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-007-23962-00-00  
Spot Description: NE NW SW  
SW NE NW SW Sec. 14 Twp. 34 S. R. 11  East  West  
2200 Feet from  North /  South Line of Section  
880 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Barber  
Lease Name: Medicine River Ranch Well #: F1  
Field Name: Landis  
Producing Formation: Mississippi  
Elevation: Ground: 1369 Kelly Bushing: 1379  
Total Depth: 5027 Plug Back Total Depth: 4975  
Amount of Surface Pipe Set and Cemented at: 256 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: 44000 ppm Fluid volume: 160 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Jody Oil & Gas Corporation  
Lease Name: Sanders 3A SWD License #: 3288  
Quarter SW Sec. 20 Twp. 31 S. R. 8  East  West  
County: Harper Permit #: D-23313

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

25

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 01/30/2013

1110884

Operator Name: N-10 Exploration, LLC Lease Name: Medicine River Ranch Well #: F1  
 Sec. 14 Twp. 34 S. R. 11  East  West County: Barber

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Mississippi	4633 (-3254)
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Dual Induction Dual Compensated Porosity			

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	256	60:40 POZ	225	2% Gel, 3% CC
Production	7.875	5.5	14	5018	Class H	150	10% Salt, 5# Kolseal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4642 - 4710	3500 gal MCA Acid	
		Frac 1779 sx 30/50 Sand	
		606 sx 16/30 Sand	
		150 sx Resin Coated Sand	

TUBING RECORD:	Size: <u>2.875</u>	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>11/23/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>20</u>	Gas Mcf <u>120</u>	Water Bbls. <u>300</u>	Gas-Oil Ratio <u>61</u> Gravity <u>28</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4642 - 4710</u>
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# ALLIED CEMENTING CO., LLC. 038090

Federal Tax I.D.# 20-5975604

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

SERVICE POINT  
*Medicine Lodge*

DATE <i>10-29-12</i>	SEC <i>14</i>	TWP <i>34</i>	RANGE <i>11W</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>MAR</i>	WELL <i>F-1</i>	LOCATION <i>Garland, Bethel, Scott Canyon</i>			COUNTY <i>Baker</i>	STATE <i>K.S.</i>	
OLD OR NEW (Circle one)		<i>West thru C.G. then South</i>			<i>1.01 1.3</i>		

CONTRACTOR <i>Hault #1</i>	OWNER <i>N-10 Exploration</i>
TYPE OF JOB <i>Surface</i>	
HOLE SIZE <i>12 1/4</i>	I.D. <i>2.53</i>
CASING SIZE <i>8 5/8</i>	DEPTH <i>243</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <i>2 1/2</i>
CEMENT LEFT IN CSO. <i>20'</i>	
PERFS.	
DISPLACEMENT <i>15 BBL</i>	

CEMENT AMOUNT ORDERED <i>225 cu 60' 40' 2 1/2 gal</i>	
<i>+ 92.00</i>	
COMMON	<i>126.84 @ 17.90 = 2411.60</i>
POZMIX	<i>90.84 @ 9.25 = 841.50</i>
GEL	<i>4.84 @ 23.40 = 98.60</i>
CHLORIDE	<i>8.84 @ 14.00 = 510.00</i>
ASC	

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Jason Thimich</i>	<i>1</i>
<i>#552/535</i>	HELPER <i>Scott Peiddy</i>	<i>2</i>
BULK TRUCK		
<i>#421/252</i>	DRIVER <i>Jake Heard</i>	<i>3</i>
BOER TRUCK		
<i>#</i>	DRIVER	

HANDLING <i>2417.34 @</i>	<i>599.10</i>
MILEAGE <i>10.16 @ 15.00</i>	<i>316.64</i>
	TOTAL <i>4859.33</i>

REMARKS:

*See Cement Log*  
*Did circ cement Aug*

SERVICE

DEPTH OF JOB <i>243'</i>	
PUMP TRUCK CHARGES	<i>1512.25</i>
EXTRA FOOTAGE	
MILEAGE <i>15 @ 7.70</i>	<i>115.50</i>
MANIFOLD	
<i>Light/ok</i> <i>15 @ 4.40</i>	<i>66.00</i>

TOTAL *\$1193.75*

CHARGE TO: *N-10 Exploration*  
STREET:  
CITY: STATE: ZIP:

*8 5/8* PLUG & FLOAT EQUIPMENT


TOTAL

SALES TAX (if Any) <i>282.64</i>	
TOTAL CHARGES <i>\$1653.08</i>	
DISCOUNT <i>1310.62</i>	IF PAID IN 30 DAYS

*Net \$522.46*

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 *Scott C Adelhardt*  
SIGNATURE *Scott C Adelhardt*

# ALLIED OIL & GAS SERVICES, LLC 059636

Federal Tax I.D.# 20-8975804

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

SERVICE POINT:  
Medina Ridge #1

DATE <u>11-6-2012</u>	SEC. <u>157</u>	TWP. <u>34S</u>	RANGE <u>17W</u>	CALLED OUT	ON LOCATION <u>4:00 AM</u>	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Phase F</u>	WELL # <u>1</u>	LOCATION <u>Berlin &amp; Red Mt. Rds, South</u>		COUNTY <u>Bosher</u>	STATE <u>Kc</u>		
OLD OR (NBVA) (Circle one)	to <u>State Conv. R., West &amp; South into</u>			<u>1.02</u>	<u>7.3</u>		

CONTRACTOR Hartzel Hi  
 TYPE OF JOB Production  
 HOLESIZE 7 7/8 TD. 5025'  
 CASING SIZE 5 7/8 14# DEPTH 5018'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOEJOINT 35'  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 122 bbls of 2 1/2% KCl brine

OWNER N-10 Exploration  
 CEMENT AMOUNT ORDERED 406.60 bbls: 150 bbls 4 1/2% SPS, 150.5x class H & 106.10 bbls 5# Kelsey

EQUIPMENT  
 PUMP TRUCK CEMENTER Don F  
11471-302 HELPER Ron G  
 BULK TRUCK  
11421-252 DRIVER Jake H  
 BULK TRUCK  
1 DRIVER

COMMON	4151 @	17.90	440.10
POZMIX	1105 @	9.35	1031.10
GEL	28 @	83.40	410.80
CHLORIDE B	@		
ASC	@		
Class H	150.5 @	21.20	3181.00
Salt	8 @	86.35	210.80
Kelsey	750 @	1.98	735.00
SMS	14 @	3.30	46.20
HANDLING	018.82 @	0.48	74.17
MILEAGE	91.60 @	15.00	1374.00
TOTAL			5715.07

REMARKS:

Pipe on bottom & break circulation. Pump 20 bbls KCl brine, 3 hrs. 10 min. 500 ppm ASE. 25% SPS cement, mix 15% for 1st hole, mix 25% SPS cement, mix 15% for 2nd hole. Cement, Shut down, with pump line. Relief flow, start displacement, lift pressure at 90 bbls. Slow rate to 3 bbls or 110 bbls, some plus to 12 bbls, total 1500 cc. 110% SPS KCl

144 SERVICE

DEPTH OF JOB	5018'	
PUMP TRUCK CHARGE		218.75
EXTRA FOOTAGE	@	
MILEAGE	15 @	7.70 115.50
MANIFOLD. 1/2" gas cement	@	275.00
	15 @	440 106.00

CHARGE TO: N-10 Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \$2000.05

PLUG & FLOAT EQUIPMENT

5 1/2"

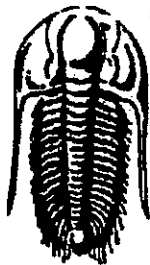
1 - Bohrer Plug	@	85.41
1 - Guide Shoe	@	80.20
1 - D.P. Insulator	@	334.17
8 - Tubulars	@	93.60 748.80
10 - Pumpdowns, 5000 psi	@	88.92 889.20

TOTAL \$2000.05

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.

SALES TAX (if Any) 520.94  
 TOTAL CHARGES \$11,875.55  
 DISCOUNT 2,255.11 IF PAID IN 30 DAYS  
Net \$9020.44

PRINTED NAME Y. Tim Pierce  
 SIGNATURE X. Tim Pierce 11-06-12



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration**

PO Box 195  
Attica KS 67009

ATTN: Tim Pierce

**Medicine River F#1**

**14-34s-11w Barber,KS**

Start Date: 2012.11.04 @ 09:18:02

End Date: 2012.11.04 @ 16:27:32

Job Ticket #: 49730                      DST #: 1

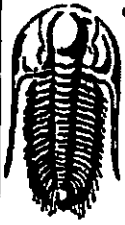
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.15 @ 14:33:21

N-10 Exploration  
14-34s-11w Barber,KS  
Medicine River F#1  
DST # 1  
Miss.  
2012.11.04



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

N-10 Exploration

14-34s-11w Barber, KS

PO Box 195  
Attica KS 67009

Medicine River F#1

ATTN: Tim Pierce

Job Ticket: 49730

DST#: 1

Test Start: 2012.11.04 @ 09:18:02

### GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock ft (KB)

Time Tool Opened: 10:58:47

Time Test Ended: 16:27:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevotiaux

Unit No: 56

Interval: 4840.00 ft (KB) To 4868.00 ft (KB) (TVD)

Total Depth: 4868.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1379.00 ft (KB)

1369.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8352

Inside

Press@RunDepth: 51.04 psig @ 4841.00 ft (KB)

Start Date: 2012.11.04

End Date:

2012.11.04

Start Time: 09:18:07

End Time:

16:27:31

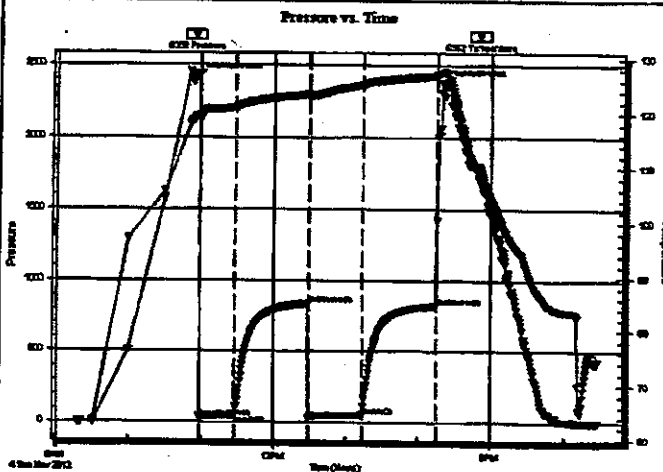
Capacity: 8000.00 psig

Last Calib.: 2012.11.04

Time On Btm: 2012.11.04 @ 10:57:02

Time Off Btm: 2012.11.04 @ 14:19:47

**TEST COMMENT:** IF: Strong blow. B.O.B. in 4 mins. Slid tool 4 ft. to btm.  
IS: No blow.  
FF: Strong blow. B.O.B. in 2-3 secs.  
FS: No blow.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.78	119.52	Initial Hydro-static
2	36.72	119.09	Open To Flow (1)
31	47.61	121.02	Shut-In(1)
92	839.65	123.49	End Shut-In(1)
93	26.12	123.23	Open To Flow (2)
137	51.04	125.26	Shut-In(2)
198	825.36	126.91	End Shut-In(2)
203	2381.60	127.52	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
122.00	GCM 16%g 84% m/Trace of oil	0.62
0.00	3500 ft. of GP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

N-10 Exploration

14-34s-11w Barber, KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49730 DST#: 1

ATTN: Tim Pierce

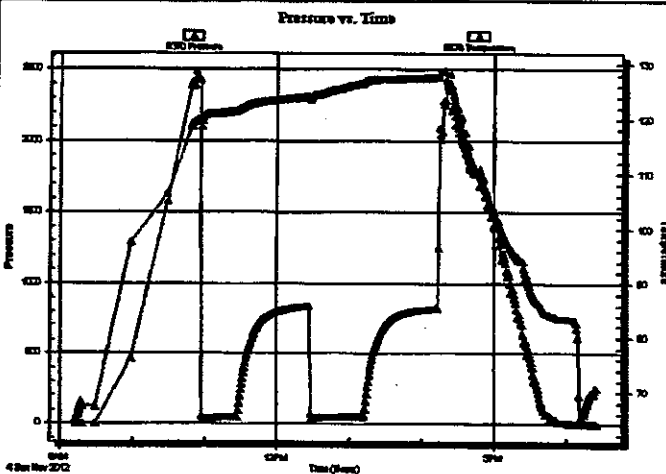
Test Start: 2012.11.04 @ 09:18:02

## GENERAL INFORMATION:

Formation: Miss.  
 Deviated: No Whipstock ft (KB)  
 Time Tool Opened: 10:58:47  
 Time Test Ended: 16:27:32  
 Interval: 4840.00 ft (KB) To 4868.00 ft (KB) (TVD)  
 Total Depth: 4868.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gary Pevoteaux  
 Unit No: 56  
 Reference Elevations: 1379.00 ft (KB)  
 1369.00 ft (CF)  
 KB to GR/CF: 10.00 ft

Serial #: 8370 Outside  
 Press@RunDepth: psig @ 4841.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.04  
 Start Time: 09:12:55 End Time: 16:24:34 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: Strong blow. B.O.B. in 4 mins. Sid tool 4 ft. to btm.  
 IS: No blow.  
 FF: Strong blow. B.O.B. in 2-3 secs.  
 FS: No blow.



## PRESSURE SUMMARY

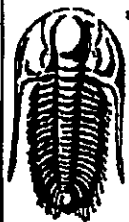
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
122.00	GCM 16%g 84%m Trace of oil	0.62
0.00	3500 ft. of GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

N-10 Exploration

14-34s-11w Barber, KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49730

DST#: 1

ATTN: Tim Pierce

Test Start: 2012.11.04 @ 09:18:02

### Tool Information

Drill Pipe:	Length: 4704.00 ft	Diameter: 3.80 inches	Volume: 65.98 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 113000.0 lb
			<u>Total Volume: 66.57 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4840.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4821.00	
Shut In tool	5.00			4826.00	
H/W	5.00			4831.00	
Packer	4.00			4835.00	20.00 Bottom Of Top Packer
Packer	5.00			4840.00	
Stubb	1.00			4841.00	
Recorder	0.00	8352	Inside	4841.00	
Recorder	0.00	8370	Outside	4841.00	
Perforations	22.00			4863.00	
Bullnose	5.00			4868.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

N-10 Exploration

14-34s-11w Barber,KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49730

DST#: 1

ATTN: Tim Pierce

Test Start: 2012.11.04 @ 09:18:02

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in\*

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
122.00	GCM 16%g 84%m/Trace of oil	0.618
0.00	3500 ft.of GP	0.000

Total Length: 122.00 ft      Total Volume: 0.618 bbl

Num Fluid Samples: 0

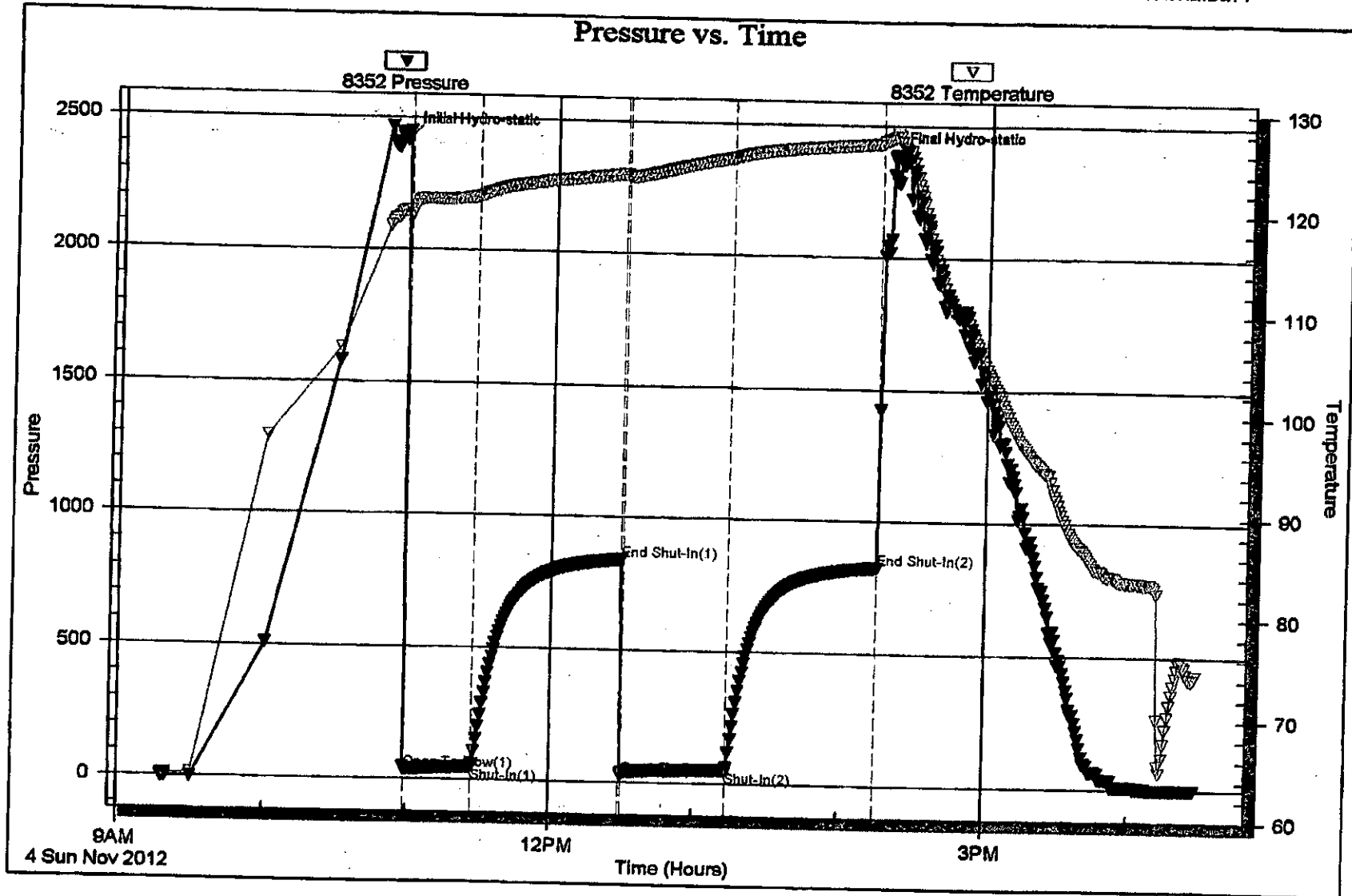
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM 5#/bbl

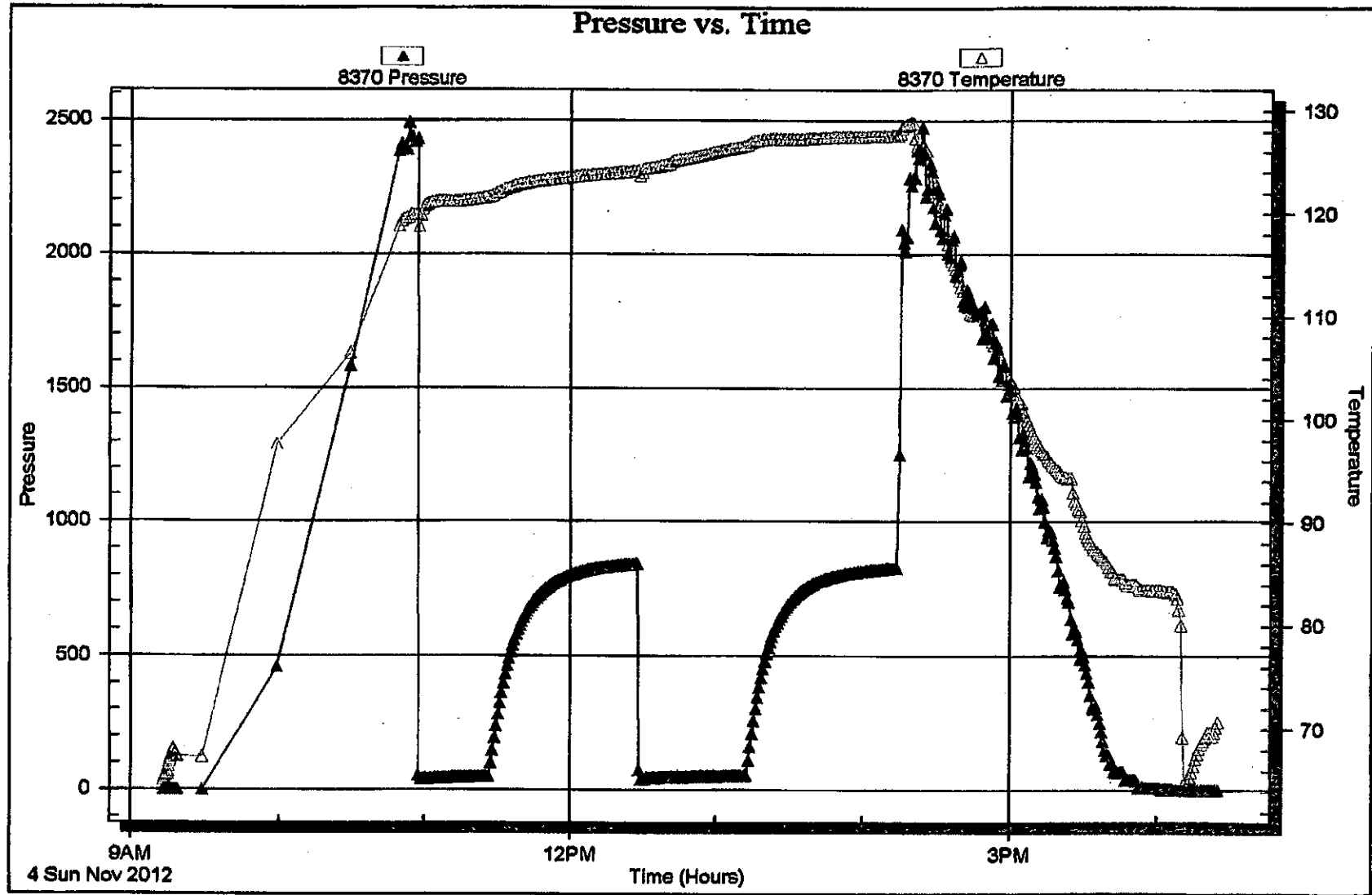


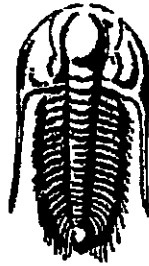
Serial #: 8370

Outside N-10 Exploration

Medicine River F#1

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration**

PO Box 195  
Attica KS 67009

ATTN: Tim Pierce

**Medicine River F#1**

**14-34s-11w Barber,KS**

Start Date: 2012.11.04 @ 23:57:14

End Date: 2012.11.05 @ 08:15:29

Job Ticket #: 49731                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.15 @ 14:31:50



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

N-10 Exploration

14-34s-11w Barber, KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49731

DST#: 2

ATTN: Tim Pierce

Test Start: 2012.11.04 @ 23:57:14

### GENERAL INFORMATION:

Formation: **Misner Sd.**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 02:35:59

Time Test Ended: 08:15:29

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Gary Pavoteaux**

Unit No: **56**

Interval: **4873.00 ft (KB) To 4930.00 ft (KB) (TVD)**

Total Depth: **4930.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1379.00 ft (KB)**

**1369.00 ft (CF)**

KB to GR/CF: **10.00 ft**

Serial #: **8352** Inside

Press@RunDepth: **19.34 psig @ 4874.00 ft (KB)**

Start Date: **2012.11.04**

End Date: **2012.11.05**

Capacity: **8000.00 psig**

Last Calib.: **2012.11.05**

Start Time: **23:57:19**

End Time: **08:15:28**

Time On Btm: **2012.11.05 @ 02:34:44**

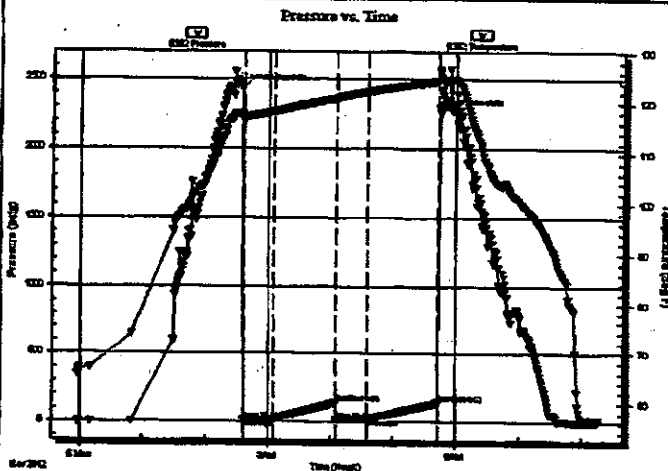
Time Off Btm: **2012.11.05 @ 05:44:29**

TEST COMMENT: IF:Weak blow . 1/2 - 1 1/4"

IS:No blow .

FF:Weak blow . 1/2 - 1 3/4"

FSt:No blow .



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2436.08	117.93	Initial Hydro-static
2	17.24	116.42	Open To Flow (1)
31	16.49	118.26	Shut-In(1)
90	141.46	120.96	End Shut-In(1)
91	14.94	120.91	Open To Flow (2)
121	19.34	122.28	Shut-In(2)
189	144.53	124.44	End Shut-In(2)
190	2262.23	126.81	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
6.00	Heavy Mud	0.03
0.00	85 ft. of GIP	0.00

\* Recovery from multiple tests

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

N-10 Exploration

14-34s-11w Barber, KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49731

DST#: 2

ATTN: Tim Pierce

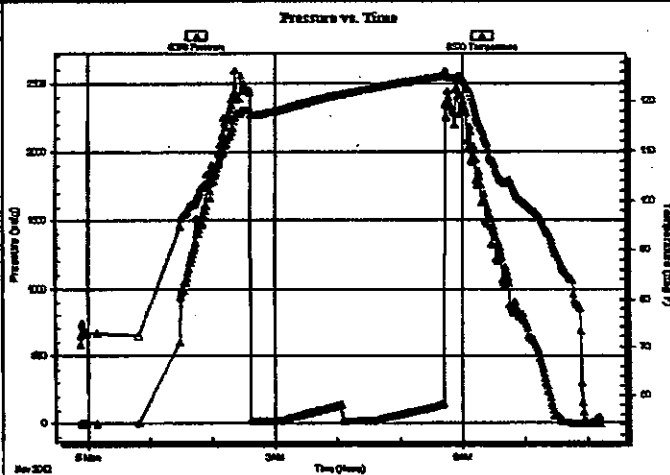
Test Start: 2012.11.04 @ 23:57:14

#### GENERAL INFORMATION:

**Formation:** Misner Sd.  
**Deviated:** No Whipstock: ft (KB)  
**Time Tool Opened:** 02:35:59  
**Time Test Ended:** 08:15:29  
**Test Type:** Conventional Bottom Hole (Reset)  
**Tester:** Gary Pevoteaux  
**Unit No:** 56  
**Interval:** 4873.00 ft (KB) To 4930.00 ft (KB) (TVD)  
**Reference Elevations:** 1379.00 ft (KB)  
**Total Depth:** 4930.00 ft (KB) (TVD) 1369.00 ft (CF)  
**Hole Diameter:** 7.88 inches  
**Hole Condition:** Poor  
**KB to GRVCF:** 10.00 ft

**Serial #: 8370** Outside  
**Press@RunDepth:** psig @ 4874.00 ft (KB) Capacity: 8000.00 psig  
**Start Date:** 2012.11.04 End Date: 2012.11.05 Last Calib.: 2012.11.05  
**Start Time:** 23:52:53 End Time: 08:12:17 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** F:Weak blow . 1/2 - 1 1/4"  
 IS:No blow.  
 FF:Weak blow . 1/2 - 1 3/4"  
 FS:No blow.



#### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

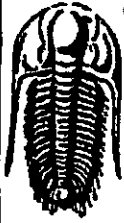
#### Recovery

Length (ft)	Description	Volume (bbl)
6.00	Heavy Mud	0.03
0.00	85 ft. of GIP	0.00

\* Recovery from multiple tests

#### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

N-10 Exploration

14-34s-11w Barber,KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49731

DST#: 2

ATTN: Tim Pierce

Test Start: 2012.11.04 @ 23:57:14

**Tool Information**

Drill Pipe:	Length: 4736.00 ft	Diameter: 3.80 inches	Volume: 66.43 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 67.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4873.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4854.00	
Shut in tool	5.00			4859.00	
HMV	5.00			4864.00	
Packer	4.00			4868.00	20.00 Bottom Of Top Packer
Packer	5.00			4873.00	
Stubb	1.00			4874.00	
Recorder	0.00	8352	Inside	4874.00	
Recorder	0.00	8370	Outside	4874.00	
Perforations	5.00			4879.00	
Blank Spacing	31.00			4910.00	
Perforations	15.00			4925.00	
Bullnose	5.00			4930.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

N-10 Exploration

14-34s-11w Barber,KS

PO Box 195  
Attica KS 67009

Medicine River F#1

Job Ticket: 49731

DST#: 2

ATTN: Tim Pierce

Test Start: 2012.11.04 @ 23:57:14

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API:
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	4000 ppm
Viscosity: 70.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Heavy Mud	0.030
0.00	85 ft. of GIP	0.000

Total Length: 6.00 ft      Total Volume: 0.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

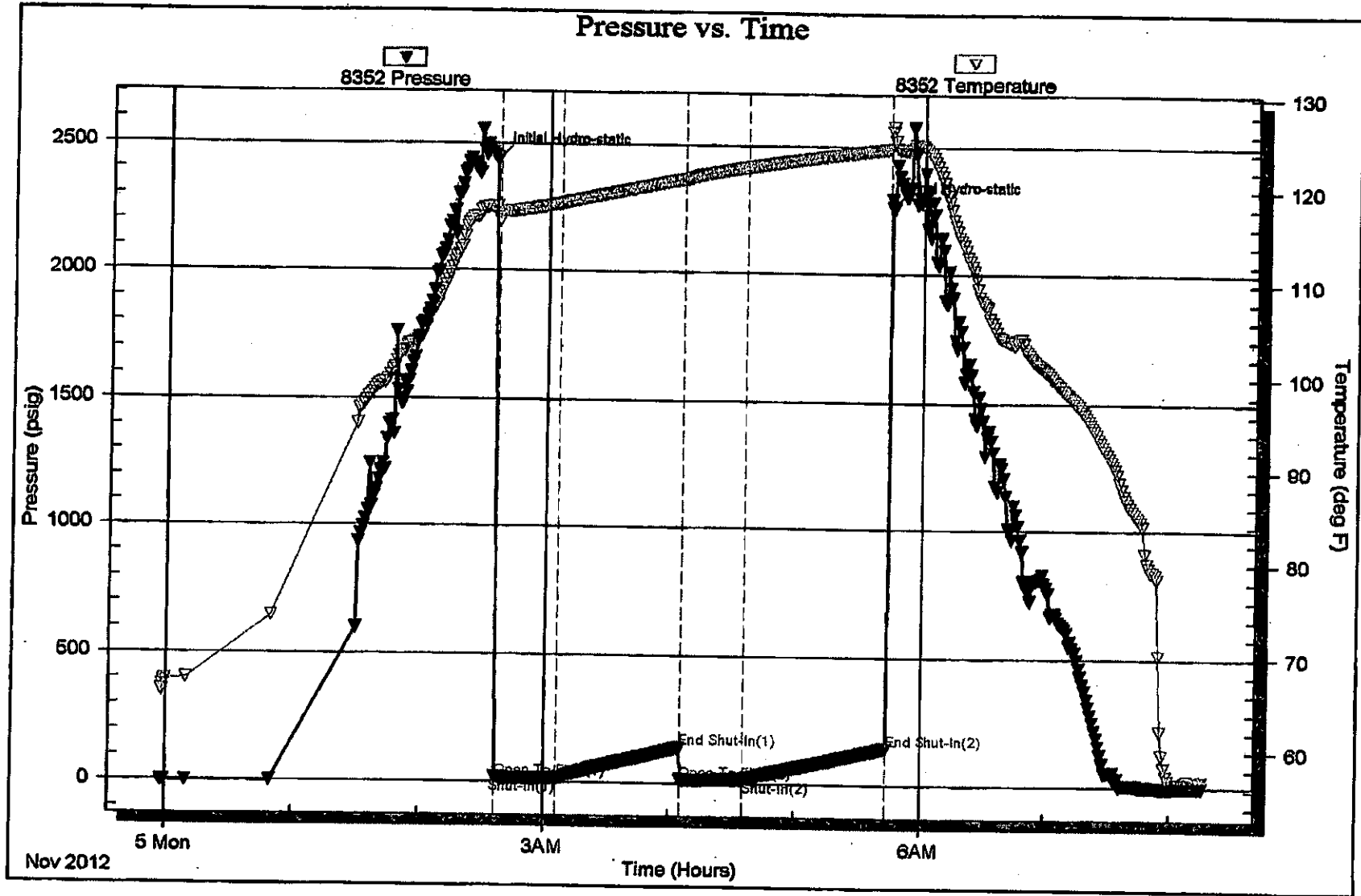


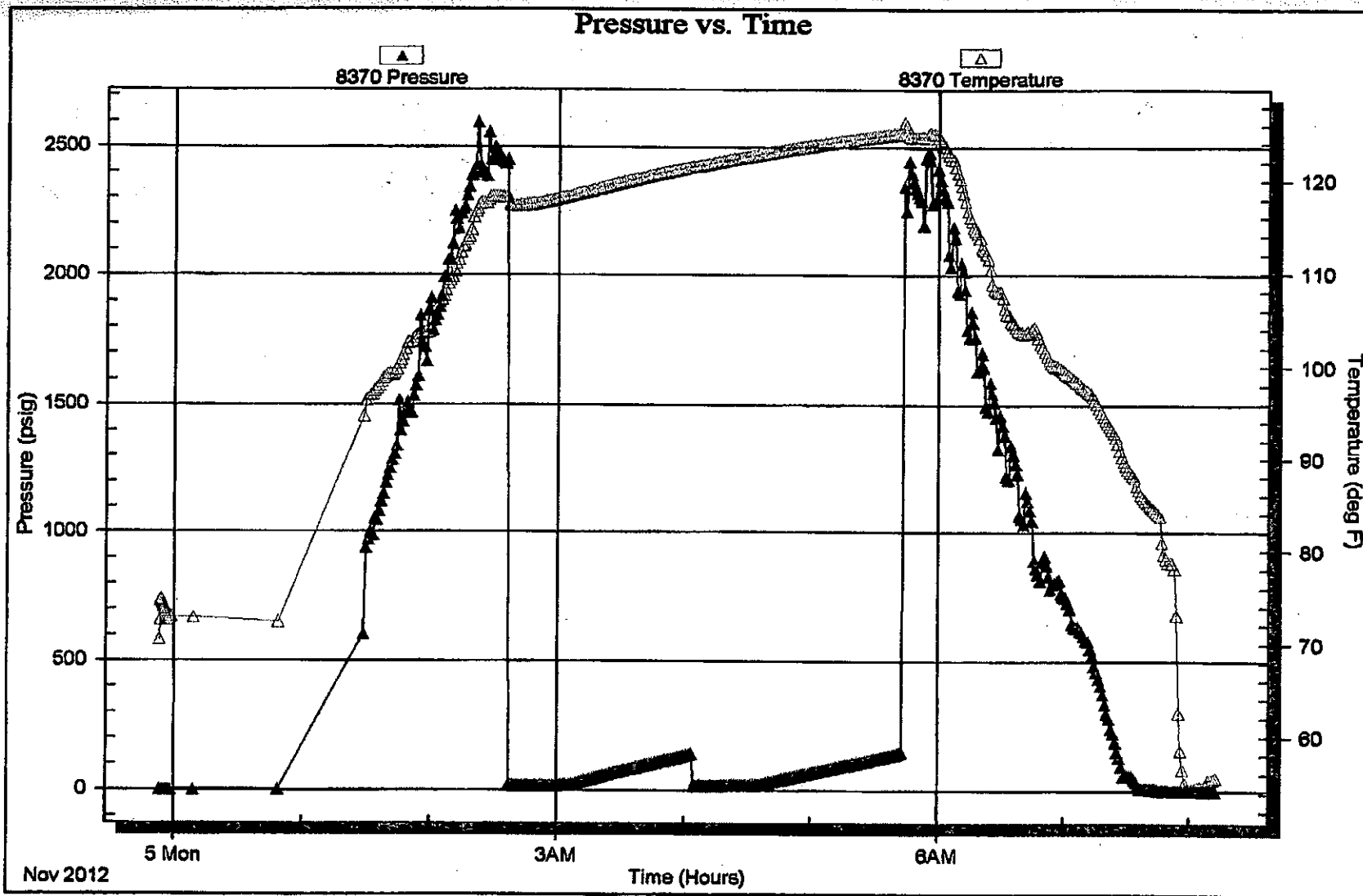
Serial #: 8352

Inside N-10 Exploration

Medicine River #41

DST Test Number: 2





# Timothy G. Pierce

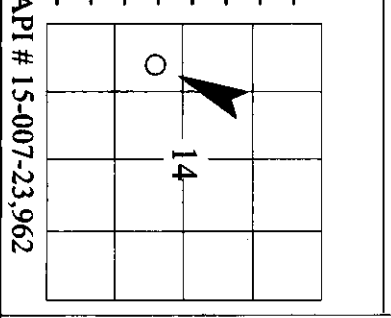
## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

**COMPANY** N-10 Exploration, LLC  
**LEASE** Medicine River Ranch 'F' #1  
**FIELD** Landis  
**LOCATION** 2200' FSL & 880' FWL  
**SEC** 14 **TWSP** 34S **RGE** 11W  
**COUNTY** Barber **STATE** Kansas  
**CONTRACTOR** Hardt Drilling Rig #1  
**SPUD** 10-29-2012 **COMP** 11-06-2012  
**RTD** 5025 **LTD** 5027  
**MUD UP** 2847 **TYPE MUD** Chemical  
**SAMPLES SAVED FROM** 4000 **TO** RTD  
**DRILLING TIME KEPT FROM** 4000 **TO** RTD  
**SAMPLES EXAMINED FROM** 4000 **TO** RTD  
**GEOLOGICAL SUPERVISION FROM** 3850 **TO** RTD  
**GEOLOGIST ON WELL** Tim Pierce

**ELEVATIONS**  
**KB** 1379'  
**DF** \_\_\_\_\_  
**GL** 1369'  
 Measurements Are All  
 From Kelly Bushing  
**CASING**  
**CONDUCTOR** \_\_\_\_\_  
**SURFACE** 8-5/8" at 256'  
**PRODUCTION** 5-1/2" at 5017'  
**ELECTRICAL SURVEYS**  
**DIL / CN-CD**  
 Pioneer

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3659 (-2280)	NA
Iatan L.S.	4102 (-2723)	4100 (-2721)
Stark Sh.	4342 (-2963)	4339 (-2960)
Cherokee Sh.	4562 (-3183)	4562 (-3183)
Mississippi	4633 (-3254)	4626 (-3247)
Chattanooga Sh.	4895 (-3516)	4895 (-3516)
Viola	4954 (-3575)	4951 (-3572)



API # 15-007-23,962

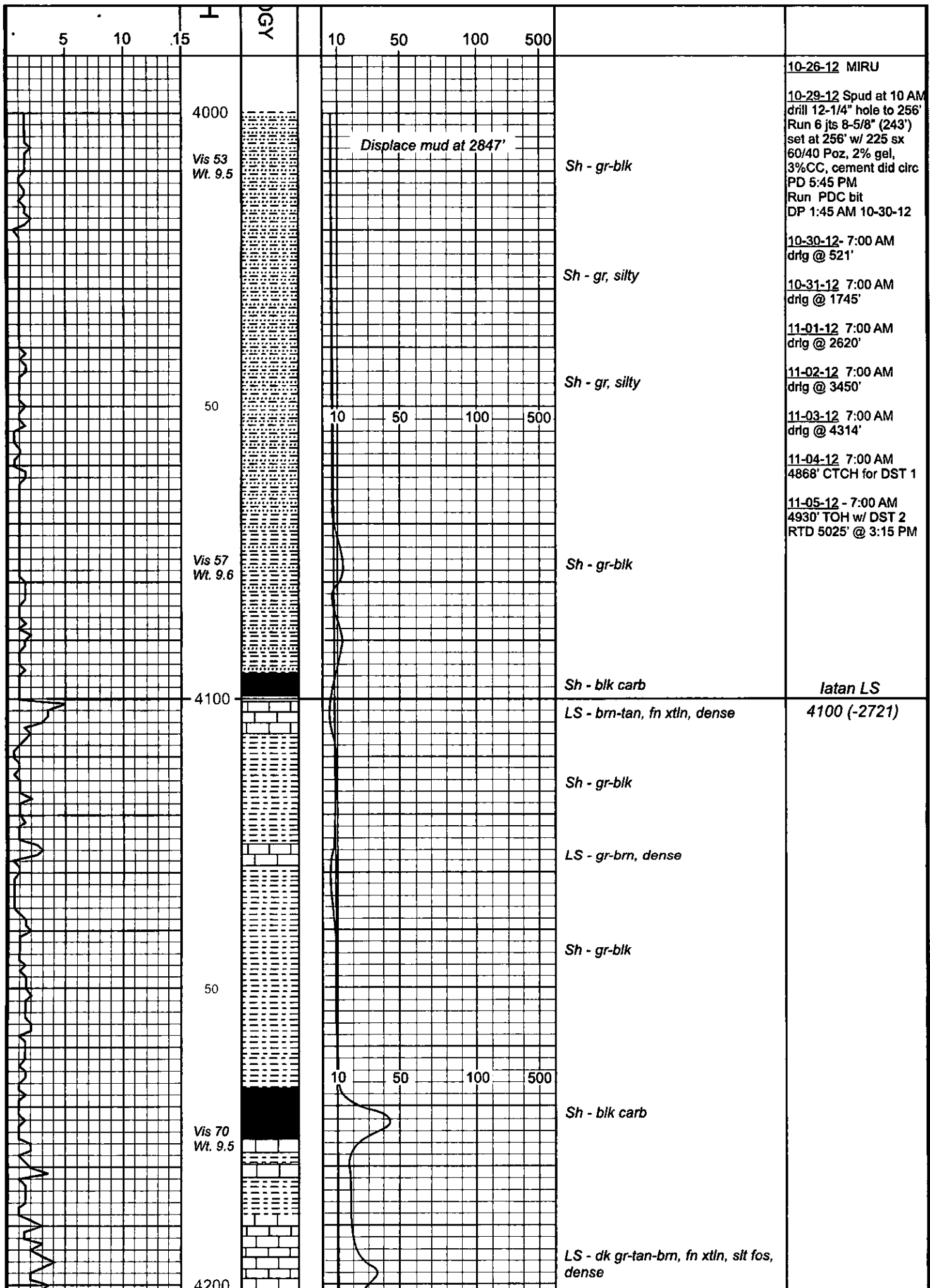
**REMARKS** Samples and electric logs indicate a productive zone in the top of the Mississippi from 4640-4710.  
Two drill stem tests were run covering shows encountered in the basal portion of the Mississippi, these zones should be tested further for potential production.  
A slight show was noted in the Hertha LS at 4388-4392, this zone should be considered before abandonment.  
No other zones of interest were indicated by samples or electric logs.

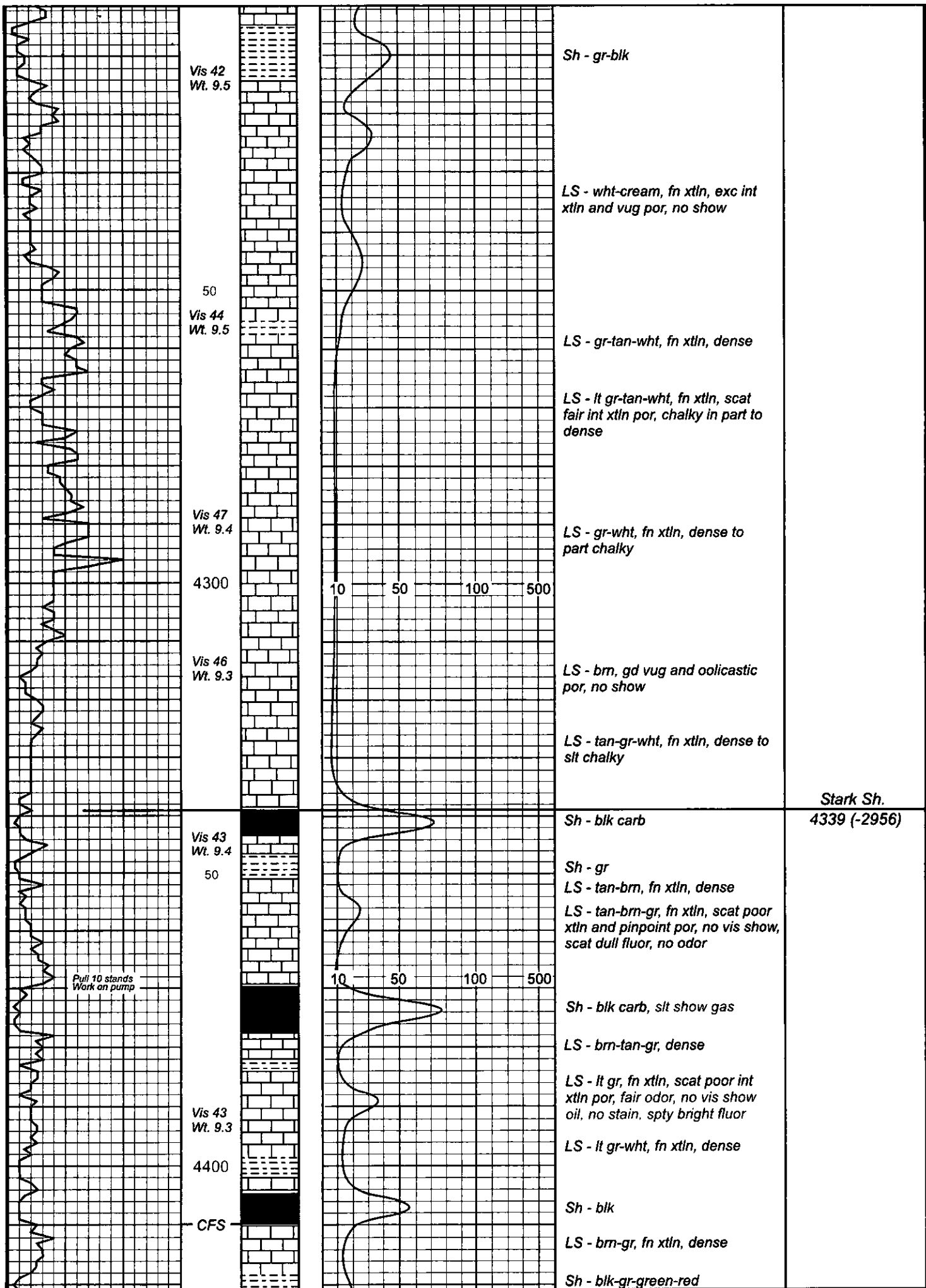
Timothy G. Pierce

### LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases 	DEPT	LITHOLOG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
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Vis 42  
Wt. 9.5

50

Vis 44  
Wt. 9.5

Vis 47  
Wt. 9.4

4300

Vis 46  
Wt. 9.3

Vis 43  
Wt. 9.4

50

Pull 10 stands  
Work on pump

Vis 43  
Wt. 9.3

4400

CFS

Sh - gr-blk

LS - wht-cream, fn xtln, exc int  
xtln and vug por, no show

LS - gr-tan-wht, fn xtln, dense

LS - lt gr-tan-wht, fn xtln, scat  
fair int xtln por, chalky in part to  
dense

LS - gr-wht, fn xtln, dense to  
part chalky

LS - brn, gd vug and oolitic  
por, no show

LS - tan-gr-wht, fn xtln, dense to  
slt chalky

Sh - blk carb

Sh - gr

LS - tan-brn, fn xtln, dense

LS - tan-brn-gr, fn xtln, scat poor  
xtln and pinpoint por, no vis show,  
scat dull fluor, no odor

Sh - blk carb, slt show gas

LS - brn-tan-gr, dense

LS - lt gr, fn xtln, scat poor int  
xtln por, fair odor, no vis show  
oil, no stain. spty bright fluor

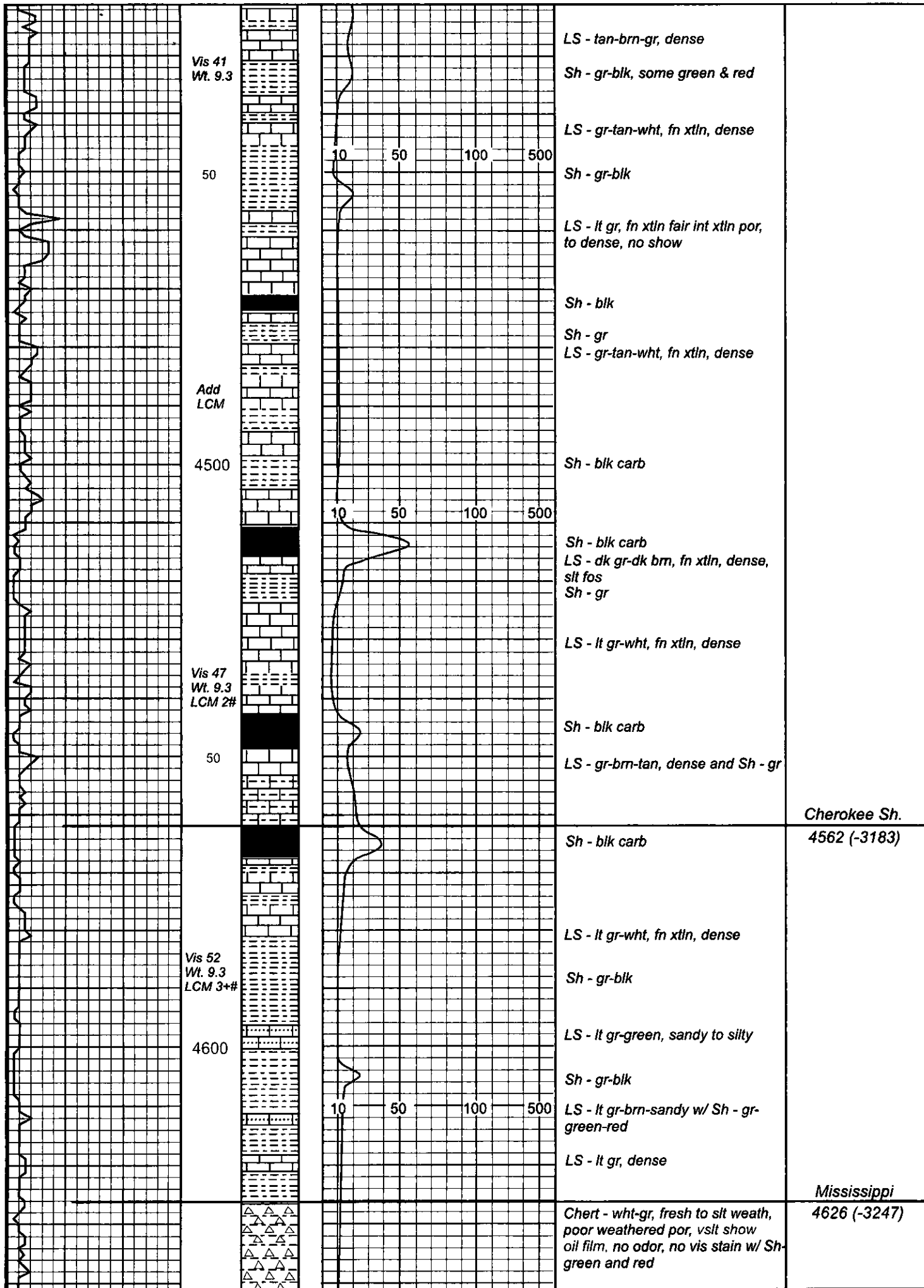
LS - lt gr-wht, fn xtln, dense

Sh - blk

LS - brn-gr, fn xtln, dense

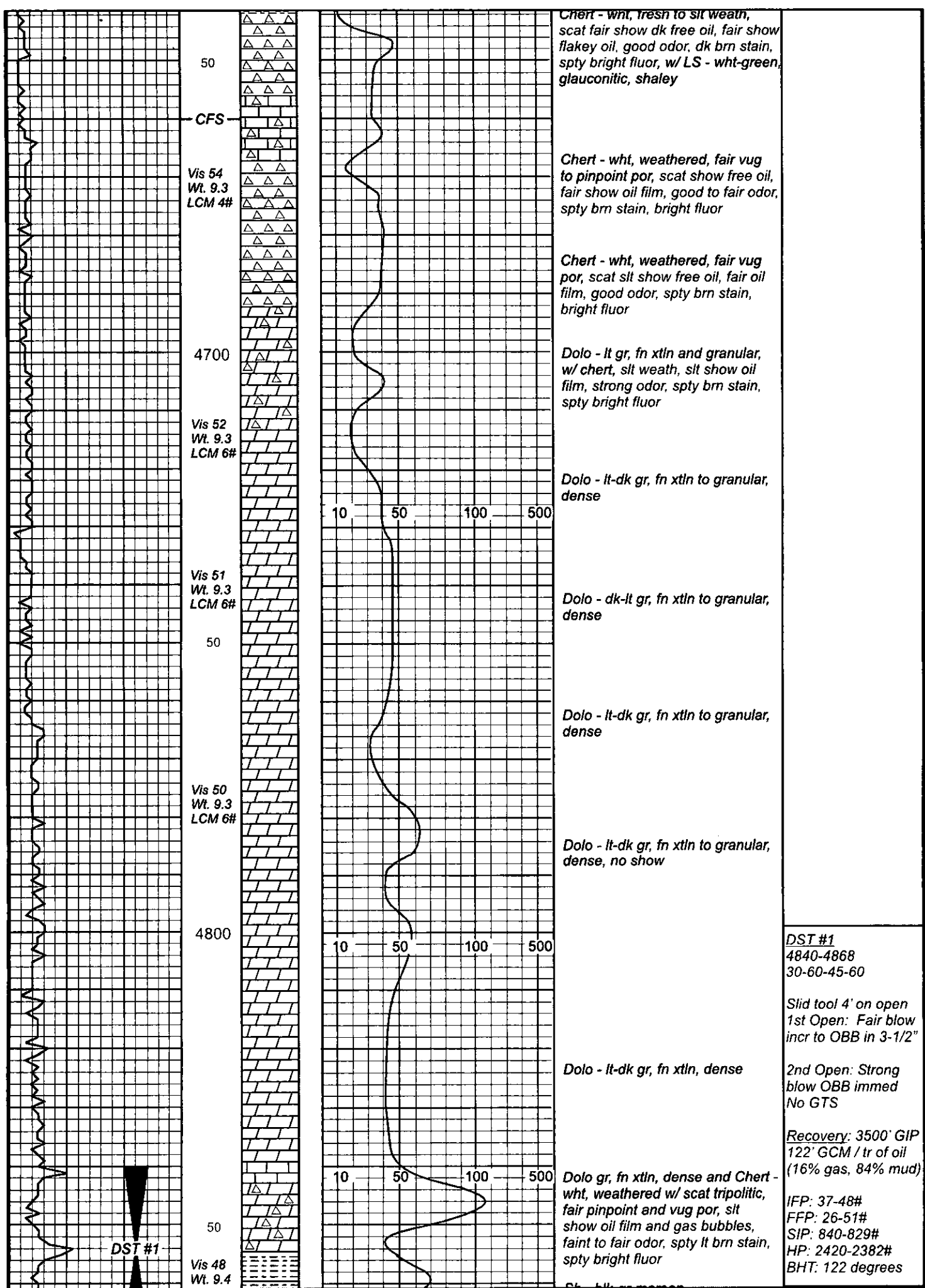
Sh - blk-gr-green-red

Stark Sh.  
4339 (-2956)



*Cherokee Sh.*  
4562 (-3183)

*Mississippi*  
4626 (-3247)



50

CFS

Vis 54  
Wt. 9.3  
LCM 4#

4700

Vis 52  
Wt. 9.3  
LCM 6#

Vis 51  
Wt. 9.3  
LCM 6#

50

Vis 50  
Wt. 9.3  
LCM 6#

4800

50

Vis 48  
Wt. 9.4

Chert - wht, fresh to slt weath,  
scat fair show dk free oil, fair show  
flakey oil, good odor, dk brn stain,  
spty bright fluor, w/ LS - wht-green,  
glauconitic, shaley

Chert - wht, weathered, fair vug  
to pinpoint por, scat show free oil,  
fair show oil film, good to fair odor,  
spty brn stain, bright fluor

Chert - wht, weathered, fair vug  
por, scat slt show free oil, fair oil  
film, good odor, spty brn stain,  
bright fluor

Dolo - lt gr, fn xtn and granular,  
w/ chert, slt weath, slt show oil  
film, strong odor, spty brn stain,  
spty bright fluor

Dolo - lt-dk gr, fn xtn to granular,  
dense

Dolo - dk-lt gr, fn xtn to granular,  
dense

Dolo - lt-dk gr, fn xtn to granular,  
dense

Dolo - lt-dk gr, fn xtn to granular,  
dense, no show

Dolo - lt-dk gr, fn xtn, dense

Dolo gr, fn xtn, dense and Chert -  
wht, weathered w/ scat tripolitic,  
fair pinpoint and vug por, slt  
show oil film and gas bubbles,  
faint to fair odor, spty lt brn stain,  
spty bright fluor

DST #1  
4840-4868  
30-60-45-60

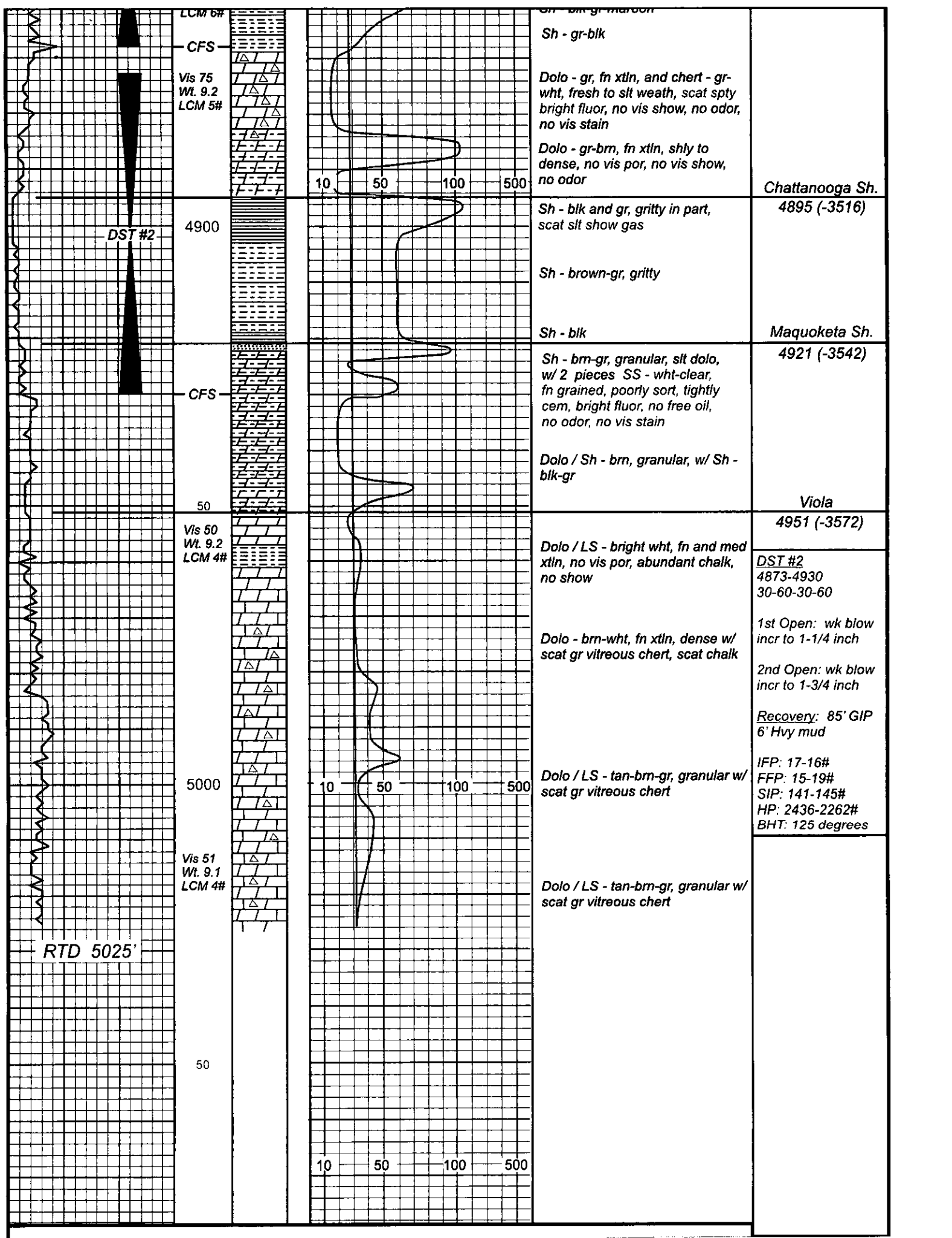
Slid tool 4' on open  
1st Open: Fair blow  
incr to OBB in 3-1/2"

2nd Open: Strong  
blow OBB immed  
No GTS

Recovery: 3500' GIP  
122' GCM / tr of oil  
(16% gas, 84% mud)

IFP: 37-48#  
FFP: 26-51#  
SIP: 840-829#  
HP: 2420-2382#  
BHT: 122 degrees

DST #1



LCM 6#

CFS

Vis 75  
Wt. 9.2  
LCM 5#

DST #2

4900

CFS

50

Vis 50  
Wt. 9.2  
LCM 4#

5000

Vis 51  
Wt. 9.1  
LCM 4#

RTD 5025'

50

10 50 100 500

10 50 100 500

10 50 100 500

Sh - gr-blk  
  
Dolo - gr, fn xtl, and chert - gr-wht, fresh to slt weath, scat spty bright fluor, no vis show, no odor, no vis stain  
  
Dolo - gr-brn, fn xtl, shly to dense, no vis por, no vis show, no odor

Chattanooga Sh.  
4895 (-3516)

Sh - blk and gr, gritty in part, scat slt show gas

Sh - brown-gr, gritty

Maquoketa Sh.

Sh - blk

4921 (-3542)

Sh - brn-gr, granular, slt dolo, w/ 2 pieces SS - wht-clear, fn grained, poorly sort, tightly cem, bright fluor, no free oil, no odor, no vis stain

Dolo / Sh - brn, granular, w/ Sh - blk-gr

Viola

4951 (-3572)

Dolo / LS - bright wht, fn and med xtl, no vis por, abundant chalk, no show

DST #2  
4873-4930  
30-60-30-60

Dolo - brn-wht, fn xtl, dense w/ scat gr vitreous chert, scat chalk

1st Open: wk blow incr to 1-1/4 inch

2nd Open: wk blow incr to 1-3/4 inch

Recovery: 85' GIP  
6' Hvy mud

Dolo / LS - tan-brn-gr, granular w/ scat gr vitreous chert

IFP: 17-16#  
FFP: 15-19#  
SIP: 141-145#  
HP: 2436-2262#  
BHT: 125 degrees

Dolo / LS - tan-brn-gr, granular w/ scat gr vitreous chert



