



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1213790
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: _____

1213790

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 062444

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge, KS

DATE <u>2-25-2017</u>	SEC. <u>22</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT <u>8:00am</u>	ON LOCATION <u>9:00am</u>	JOB START <u>10:30am</u>	JOB FINISH <u>11:30am</u>
LEASE <u>MBR</u>	WELL# <u>ES 3</u>	LOCATION <u>Gerkin & Pophel Rr, South to</u>			COUNTY <u>Borke</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>Ansus, West to R's</u>				

CONTRACTOR Hgrat #1 OWNER R & B Oil & Gas

TYPE OF JOB Sus. Pipe

HOLE SIZE 17 3/4 T.D. _____ CEMENT _____

CASING SIZE 13 5/8 DEPTH 42' AMOUNT ORDERED 250 sy Class A + 3% cc, 105 sy 60140; 3% cc + 2% 601

TUBING SIZE 8 5/8 DEPTH 10'

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 20

PERFS. _____

DISPLACEMENT 5 bbls Fresh Water

EQUIPMENT _____

PUMP TRUCK CEMENTER Dann E

471-265 HELPER Ron G.

BULK TRUCK _____

421-290 DRIVER David F

BULK TRUCK _____

_____ DRIVER _____

COMMON 313 SY @ 17.90 5602.70

POZMIX 42 SY @ 9.35 392.70

GEL 2 SY @ 23.00 46.80

CHLORIDE 13 SY @ 64.00 832.00

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 375.28 @ 2.48 930.71

MILEAGE 21.32 / 23 / 2.60 1276.73

TOTAL 9081.64

REMARKS:

Pipe on bottom & brass circulation pump
3 bbls, mix 250 sy class A + 3% cc, 105 sy
60140; 3% cc + 2% 601, Displace 5 bbls
water, shut in, cement via circulate

SERVICE

DEPTH OF JOB 42'

PUMP TRUCK CHARGE 1512.75

EXTRA FOOTAGE @ _____

MILEAGE 23 @ 2.60 59.80

MANIFOLD Swissmatic 80%

A.U. 23 @ 4.40 106.20

_____ @ _____

TOTAL 1673.75

CHARGE TO: R & B Oil & Gas

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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) _____

TOTAL CHARGES 10,755.39

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Y

NET 8604.31

SIGNATURE K. Scott Caldwell

ALLIED OIL & GAS SERVICES, LLC 062317

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>2-26-14</u>	SEC. <u>22</u>	TWP. <u>34S</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
Medicine River LEASE Ranch		WELL # <u>E-3</u>	LOCATION <u>Garland + Bethel South to</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			Angus Rd West into				

CONTRACTOR Hardt # 1 OWNER N-10

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 590 CEMENT AMOUNT ORDERED 250 SY 65:35:67 Gels 31 Oct

CASING SIZE 8 5/8 DEPTH 552 1/4 flo seal 170 SX Class A + 3X 102 1/2 Gels

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 26'

CEMENT LEFT IN CSG. 26'

PERFS.

DISPLACEMENT 33 1/2 BBL

EQUIPMENT

PUMP TRUCK CEMENTER JAKO Heard

471/265 HELPER Scott Priddy

BULK TRUCK

421/252 DRIVER James Bowen

BULK TRUCK

DRIVER

COMMON 170 SX @ 17.90 3043.00

POZMIX @

GEL 4 SX @ 23.40 93.60

CHLORIDE 14 SX @ 64.00 896.00

ASC @

Flo seal 62.5 # @ 2.70 168.75

ALW 250 SX @ 16.50 4125.00

@

@

@

@

@

HANDLING 471.22 @ 2.48 1168.62

MILEAGE 26, 27 / 23 / 2.10 1212.41

TOTAL 10,707.38

REMARKS:

SERVICE

DEPTH OF JOB 552

PUMP TRUCK CHARGE 1512 75

EXTRA FOOTAGE @

MILEAGE 23 @ 7.70 177.10

MANIFOLD @ 275.00

ALW 23 @ 4.40 101.20

@

TOTAL 2066.05

CHARGE TO: N-10

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1- Baffle plate @ 320.00

1- BASKET @ 560.00

1- Rubber plug @ 131.00

@

@

TOTAL 1011.00

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)

TOTAL CHARGES 13,784.43

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME X

SIGNATURE X Scott C. Priddy

NET 11,229 74

8 5/8

ALLIED OIL & GAS SERVICES, LLC 062734

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Medicine Lodge KS

DATE <u>3/6/14</u>	SEC. <u>22</u>	TWP. <u>34s</u>	RANGE <u>11w</u>	CALLED OUT	ON LOCATION <u>3/5/14 4:30 PM</u>	JOB START <u>3/6/14 3:30 AM</u>	JOB FINISH <u>4:30 AM</u>
LEASE <u>ARR 'E'</u>		WELL# <u>3</u>	LOCATION <u>Gerlane Rd + 281, East to</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)			<u>Bethal, South to Angus, West, South into</u>				

CONTRACTOR Hardb OWNER N-10 Exploration

TYPE OF JOB Production

HOLE SIZE <u>7 7/8</u>	T.D. <u>4986</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4956</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1400</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>42</u>	
PERFS.	
DISPLACEMENT <u>12.2 BBLs Fresh H₂O + 2% KCl</u>	

CEMENT
AMOUNT ORDERED 40 x 60:40:4% Gel + 4% SMS,
150 sx Class II + 10% Silt + 5# K. local, 12 BBLs ASF,
14 Gals KCl

EQUIPMENT

PUMP TRUCK # <u>471/265</u>	CEMENTER <u>Jason Thimach</u>
BULK TRUCK # <u>381/252</u>	HELPER <u>Ron Gilley</u>
BULK TRUCK #	DRIVER <u>Robert Johnson / David Folio</u>
#	DRIVER

COMMON <u>24</u> sx	@ <u>17.90</u>	<u>429.60</u>
POZMIX <u>16</u> sx	@ <u>9.35</u>	<u>149.60</u>
GEL <u>2</u> sx	@ <u>23.40</u>	<u>46.80</u>
CHLORIDE	@	
ASC	@	
<u>H</u> <u>150</u> sx	@ <u>21.20</u>	<u>3180.00</u>
<u>SALT</u> <u>8</u> sx	@ <u>26.35</u>	<u>210.80</u>
<u>Kalseal</u> <u>750</u> #	@ <u>.98</u>	<u>755.00</u>
<u>SMS</u> <u>14</u> #	@ <u>3.30</u>	<u>46.20</u>
<u>ASF</u> <u>12</u> Bbls	@ <u>58.70</u>	<u>704.40</u>
<u>Clapron</u> <u>14</u> Gals	@ <u>34.40</u>	<u>481.60</u>
	@	

HANDLING 218.82 cft @ 2.48 542.67
MILEAGE 9.60 mi X 28 mi X 2.60 574.08

TOTAL 7100.75

REMARKS: Float Held

SERVICE

DEPTH OF JOB <u>4956'</u>	
PUMP TRUCK CHARGE <u>2765</u> IS	
EXTRA FOOTAGE	@
MILEAGE <u>23</u> mi @ <u>7.70</u>	<u>177.10</u>
MANIFOLD + Head	@ <u>273.00</u>
LV <u>23</u> mi @ <u>4.40</u>	<u>101.20</u>
	@

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

TOTAL 3319.05

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.

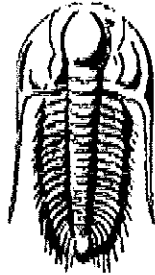
PLUG & FLOAT EQUIPMENT

<u>5 1/2</u> Centralizers	<u>8</u> @ <u>57.00</u>	<u>456.00</u>
Rubber Plug	<u>1</u> @	<u>85.00</u>
Guide Shoe	<u>1</u> @	<u>281.00</u>
AFU Insert	<u>1</u> @	<u>335.00</u>
	@	

TOTAL 1157.00

PRINTED NAME TIM PIERCE
SIGNATURE Tim Pierce

SALES TAX (If Any) _____
TOTAL CHARGES 11,576.80
DISCOUNT _____ IF PAID IN 30 DAYS
NET 9492.84



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **N - 10 Exploration**

PO Box 195
Attica KS 67009

ATTN: Tim Pierce

22-34s-11w Barber,KS

Medicine River Ranch E #3

Start Date: 2014.03.04 @ 22:39:43

End Date: 2014.03.05 @ 08:11:13

Job Ticket #: 51881 DST #: 1

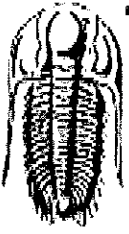
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.07 @ 15:06:36

N - 10 Exploration Medicine River Ranch E #3 22-34s-11w Barber,KS DST # 1 Viola 2014.03.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

N - 10 Exploration

Medicine River Ranch E #3

PO Box 195
Attica KS 67009

22-34s-11w Barber, KS

ATTN: Tim Pierce

Job Ticket: 51881

DST#: 1

Test Start: 2014.03.04 @ 22:39:43

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 01:51:13

Time Test Ended: 08:11:13

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

Tester: **Gary Pevoteaux**

Unit No: **56**

Interval: **4956.00 ft (KB) To 4986.00 ft (KB) (TVD)**

Reference Elevations: **1335.00 ft (KB)**

Total Depth: **4986.00 ft (KB) (TVD)**

1325.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

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

Serial #: 8352

Inside

Press@RunDepth: **23.89 psig @ 4957.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2014.03.04**

End Date:

2014.03.05

Last Calib.: **2014.03.05**

Start Time: **22:39:48**

End Time:

08:11:13

Time On Btrn: **2014.03.05 @ 01:49:58**

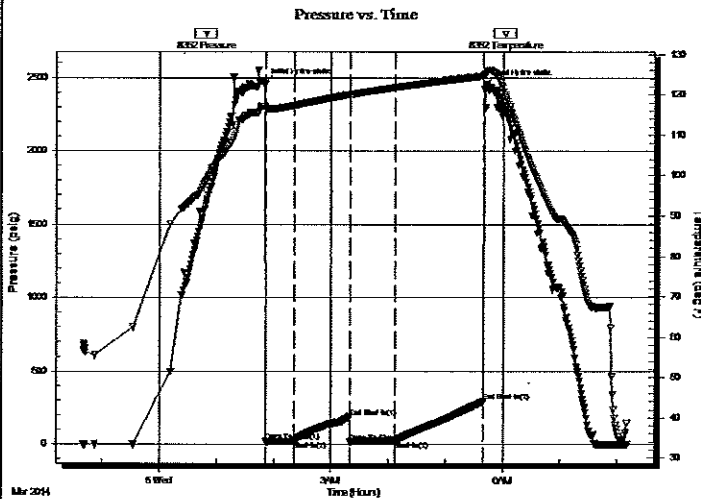
Time Off Btrn: **2014.03.05 @ 05:42:13**

TEST COMMENT: IF: Fair blow. Increase to 7".

IS: No blow.

FF: Fair blow. 3 - 8".

FS: No blow.



PRESSURE SUMMARY

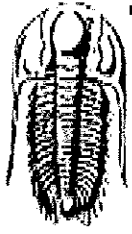
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2460.45	117.22	Initial Hydro-static
2	20.10	116.40	Open To Flow (1)
31	21.66	117.35	Shut-In(1)
90	190.27	120.13	End Shut-In(1)
90	14.98	120.03	Open To Flow (2)
138	23.89	121.84	Shut-In(2)
230	293.15	124.65	End Shut-In(2)
233	2453.76	125.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GCM w/o specs 6%g 94%m	0.07
0.00	Clean oil @ top of tool	0.00
0.00	345 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

N- 10 Exploration
PO Box 195
Attica KS 67009
ATTN: Tim Pierce

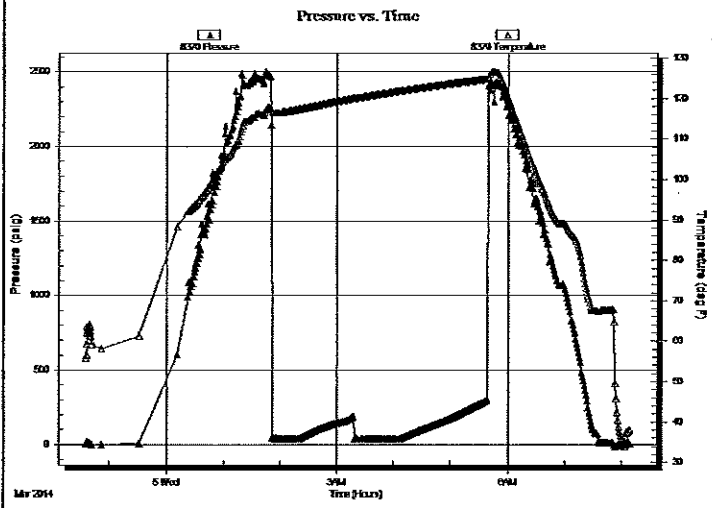
Medicine River Ranch E #3
22-34s-11w Barber,KS
Job Ticket: 51881 DST#: 1
Test Start: 2014.03.04 @ 22:39:43

GENERAL INFORMATION:

Formation: **Viola**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 01:51:13
Time Test Ended: 08:11:13
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Gary Pevoteaux**
Unit No: **56**
Interval: **4956.00 ft (KB) To 4986.00 ft (KB) (TVD)**
Reference Elevations: **1335.00 ft (KB)**
Total Depth: **4986.00 ft (KB) (TVD)** **1325.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

Serial #: 8370 **Outside**
Press@RunDepth: psig @ 4957.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.04 End Date: 2014.03.05 Last Calib.: 2014.03.05
Start Time: 22:35:30 End Time: 08:08:10 Time On Blm:
Time Off Blm:

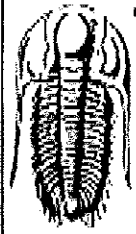
TEST COMMENT: IF: Fair blow . Increase to 7".
IS: No blow .
FF: Fair blow . 3 - 8".
FS: No blow .



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

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	GCM w/o specs 6%g 94%m	0.07
0.00	Clean oil @ top of tool	0.00
0.00	345 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

Medicine River Ranch E #3

PO Box 195
Attica KS 67009

22-34s-11w Barber,KS

Job Ticket: 51881

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.03.04 @ 22:39:43

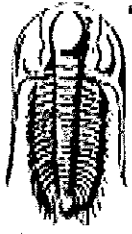
Tool Information

Drill Pipe:	Length: 4829.00 ft	Diameter: 3.80 inches	Volume: 67.74 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: 100000.0 lb
			<u>Total Volume: 68.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4956.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			4937.00	
Shut in tool	5.00			4942.00	
HMV	5.00			4947.00	
Packer	4.00			4951.00	20.00 Bottom Of Top Packer
Packer	5.00			4956.00	
Stubb	1.00			4957.00	
Recorder	0.00	8352	Inside	4957.00	
Recorder	0.00	8370	Outside	4957.00	
Perforations	24.00			4981.00	
Bullnose	5.00			4986.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

N- 10 Exploration

Medicine River Ranch E #3

PO Box 195
Atlica KS 67009

22-34s-11w Barber,KS

Job Ticket: 51881

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.03.04 @ 22:39:43

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: 2800 ppm

Viscosity: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 2800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	GCM w/o specs 6%g 94%m	0.074
0.00	Clean oil @ top of tool	0.000
0.00	345 ft.of GIP	0.000

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

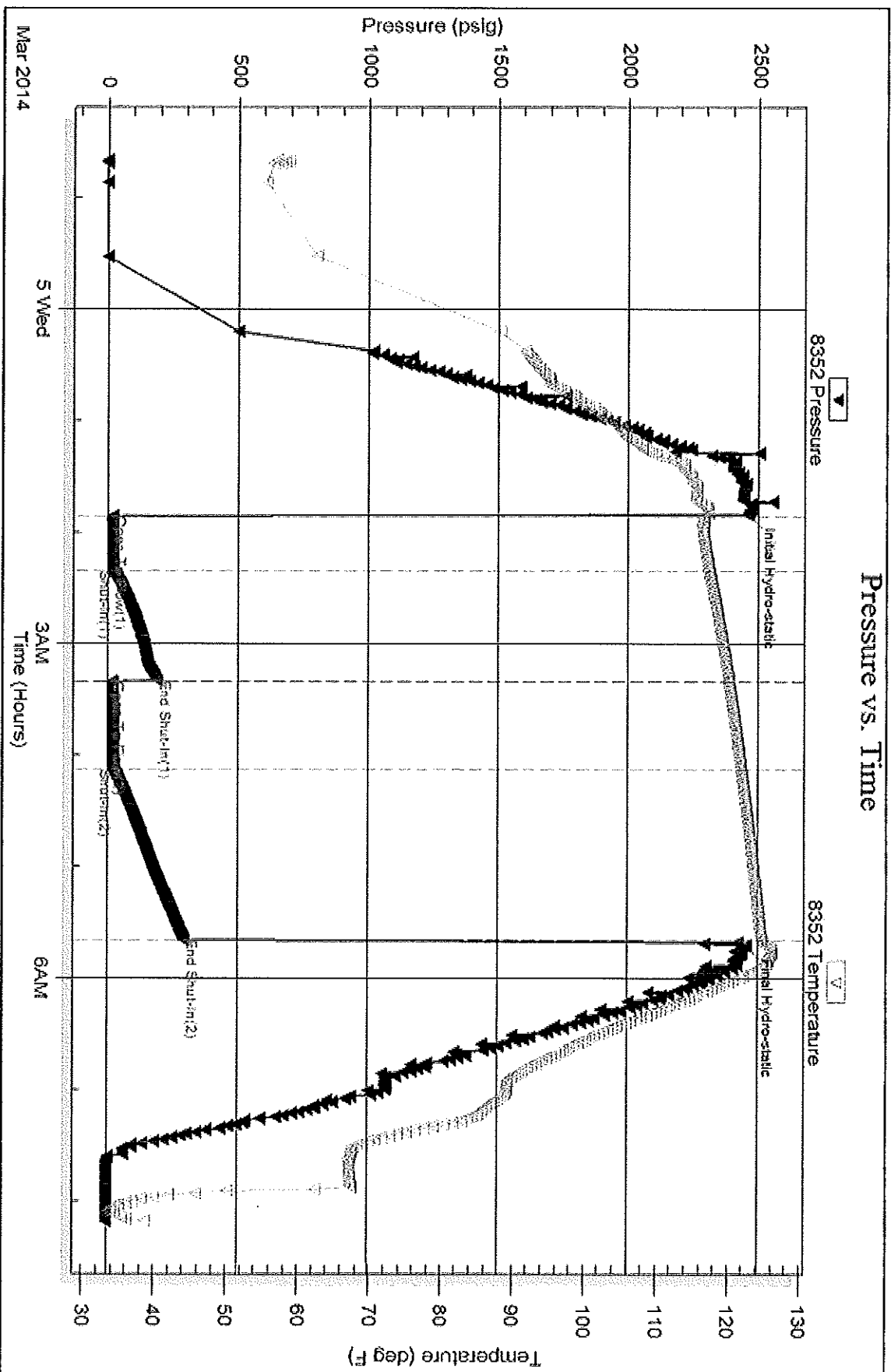
Inside

N - 10 Exploration

22-34s-11w Barber, KS

DST Test Number: 1

Pressure vs. Time

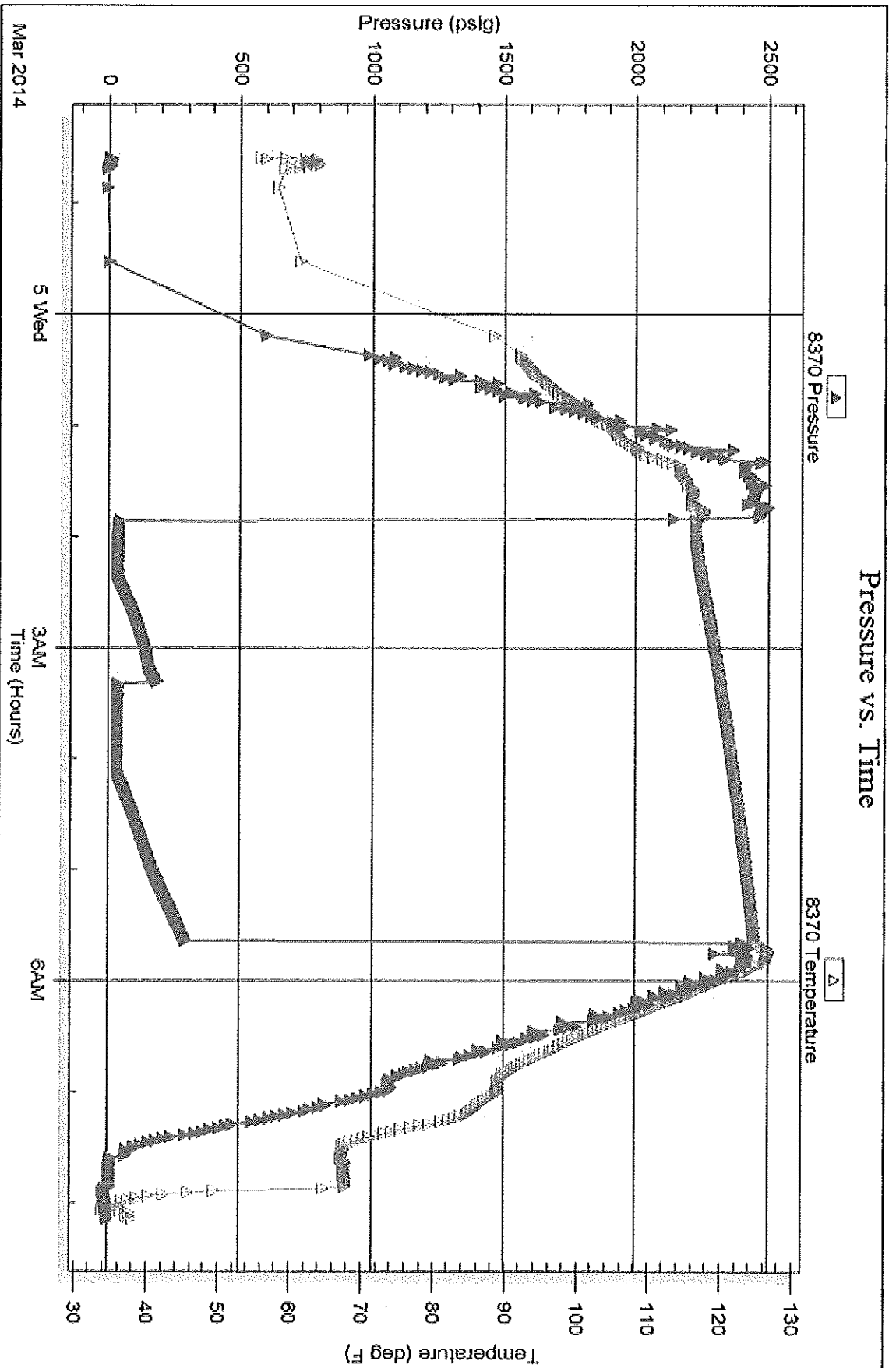


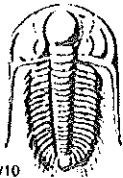
Serial #: 8370

Outside N - 10 Exploration

22-34s-13w Barber, KS

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51881

Well Name & No. MEDICINE RIVER RANCH E-3 Test No. 1 Date 3-4-14
 Company N-10 EXPLORATION Elevation 1335 KB 1325 GL
 Address 124 N. MAIN, P.O. Box 195, NEFFA KS 67009
 Co. Rep / Geo. Tom Peirce Rig HARDT DRUG #1
 Location: Sec. 22 Twp. 34S Rge. 11W Co. BARBER State KS

Interval Tested 4956 - 4986' Zone Tested U10LA
 Anchor Length 30' Drill Pipe Run 4829' Mud Wt. 9.4
 Top Packer Depth 4951' Drill Collars Run 120 Vis 50
 Bottom Packer Depth 4956' Wt. Pipe Run 0 WL 9.2 cc
 Total Depth 4986' Chlorides 2800 ppm System LCM 3ST
 Blow Description IF: Fair below, Increase to 7". FSI: No blow.

FF: Fair below, 3-8". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
15	6-6M w.o. spec.	6			94
	Clear oil @ top of tool				
	345' of Gas in pipe				

Rec Total 15 BHT 125 Gravity N/A API RW N.C. @ °F Chlorides 2800 ppm

(A) Initial Hydrostatic <u>2460</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>2128</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars	T-Started <u>2239</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0151</u>
(D) Initial Shut-In <u>190</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0538</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0811</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>105M</u> <u>162.75</u>	Comments
(G) Final Shut-In <u>293</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2454</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1412.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1412.75</u>	

Approved By Tom Peirce Our Representative Cory Potoczny
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY N-10 Exploration, LLC
 LEASE Medicine River Ranch 'E' #3
 FIELD Landis
 LOCATION SW NW SE
 SEC 22 TWSP 34S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 2-20-2014 COMP 3-06-2014
 RTD 4986 LTD 4985
 MUD UP 2911 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 4125 to RTD
 GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1335'
 DF _____
 GL 1325'
 Measurements Are All
 From Kelly Bushing

CASING

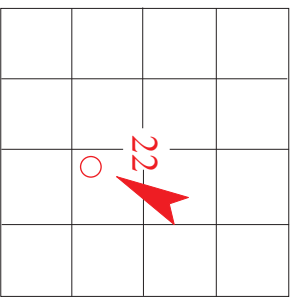
CONDUCTOR 13-3/8" at 59'
 SURFACE 8-5/8" at 550'
 PRODUCTION 5-1/2" at 4966'

ELECTRICAL SURVEYS

DIL / CN-CD
Pioneer Energy Svcs.

FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3646 (-2311)	NA
Iatan LS.	4072 (-2737)	4070 (-2735)
Stark Sh.	4338 (-3003)	4334 (-2999)
Cherokee Sh.	4564 (-3229)	4559 (-3224)
Mississippi	4614 (-3279)	4616 (-3281)
Chattanooga Sh.	4896 (-3561)	4893 (-3558)
Viola	4958 (-3623)	4949 (-3614)


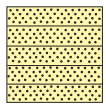
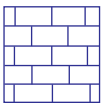
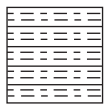

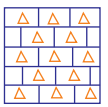

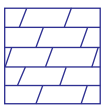


API # 15-007-24,136

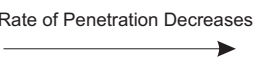
REMARKS The Mississippi chert reservoir was degraded significantly compared to other wells in the area, however there appears to be enough of the zone present to warrant a completion attempt. Recommended perforations from 4634'-4680'
Slight hydrocarbon fluorescence was observed in the KC Swope zone and Viola Dolomite.
A drill stem test covering the Viola Dolomite indicated a tight reservoir with oil shows but non-commercial.
Gas shows were observed in the Chattanooga Shale .
A gas kick was recorded at the approximate top of the Pawnee LS at 4524', this could have come from the black shale above but could have also come from the LS which is known to have production scattered through the area.
There were no other zones of interest 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



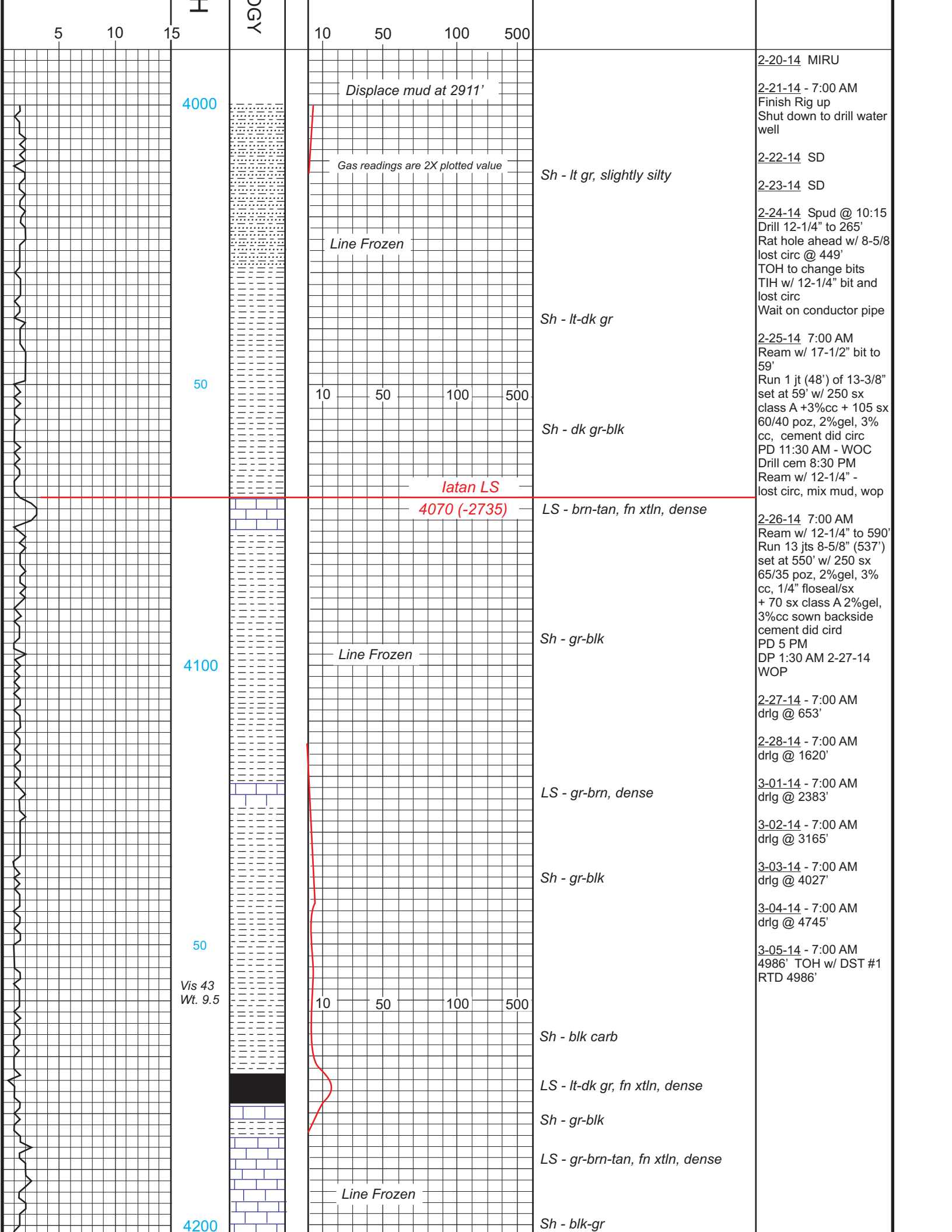
DEPTH

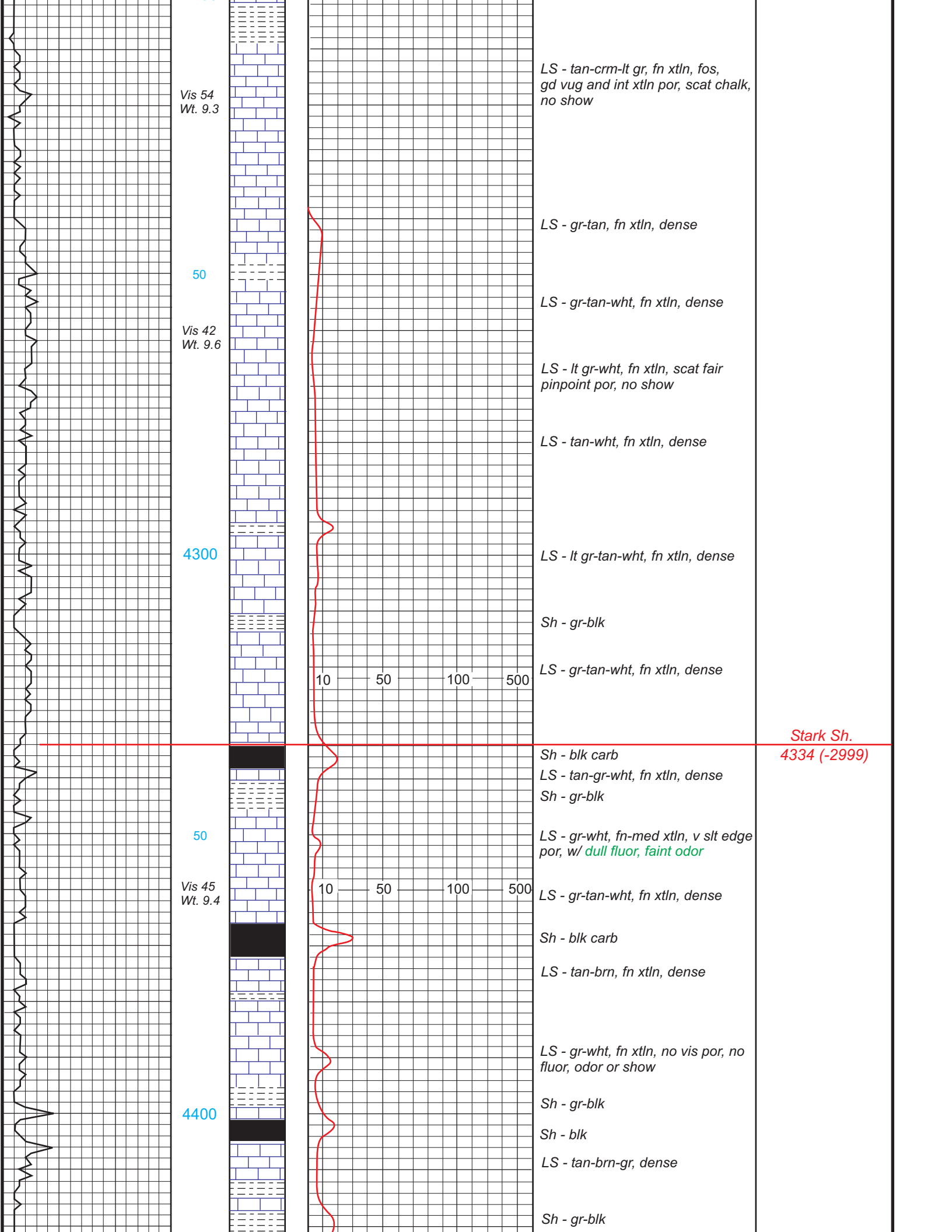
LITHOLOG

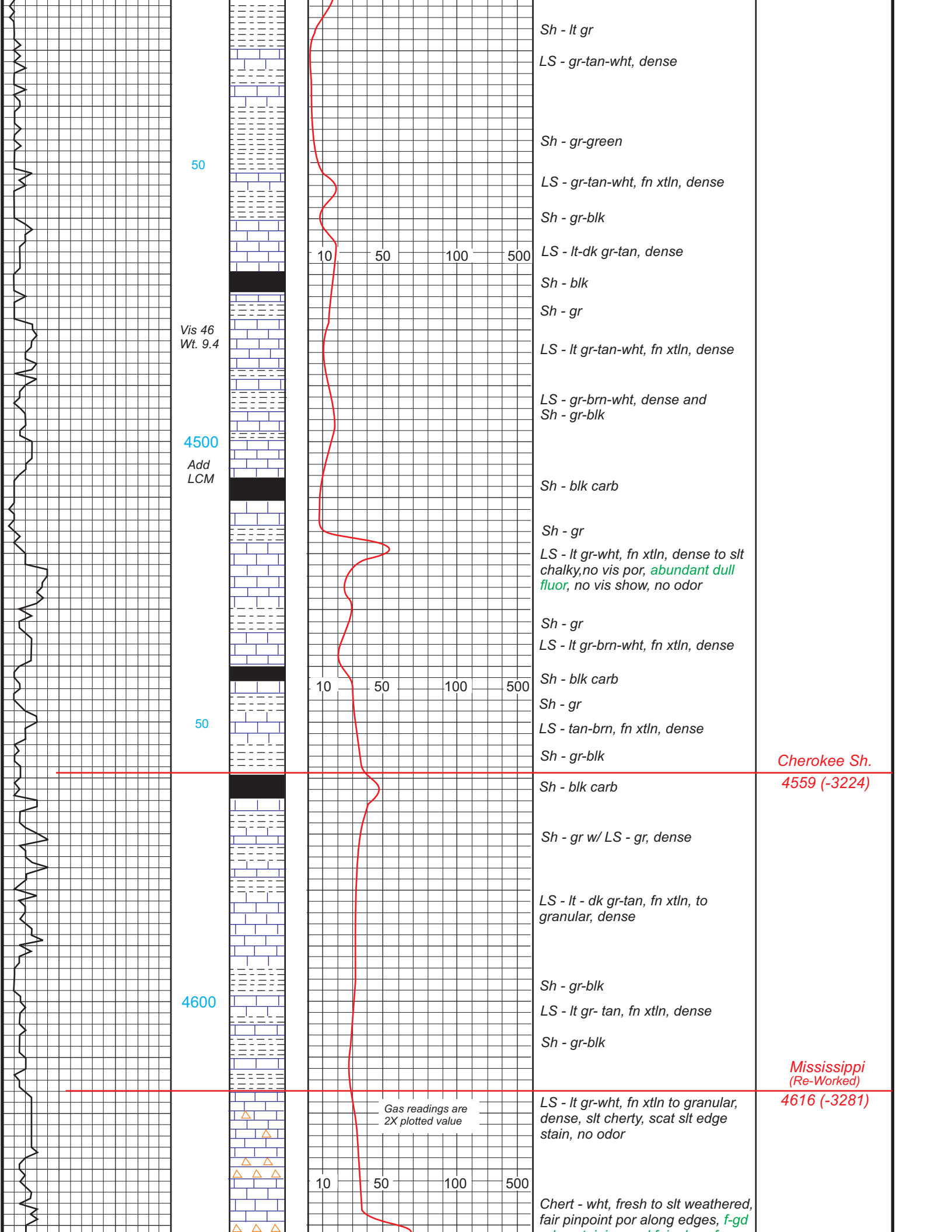
GAS SCALE

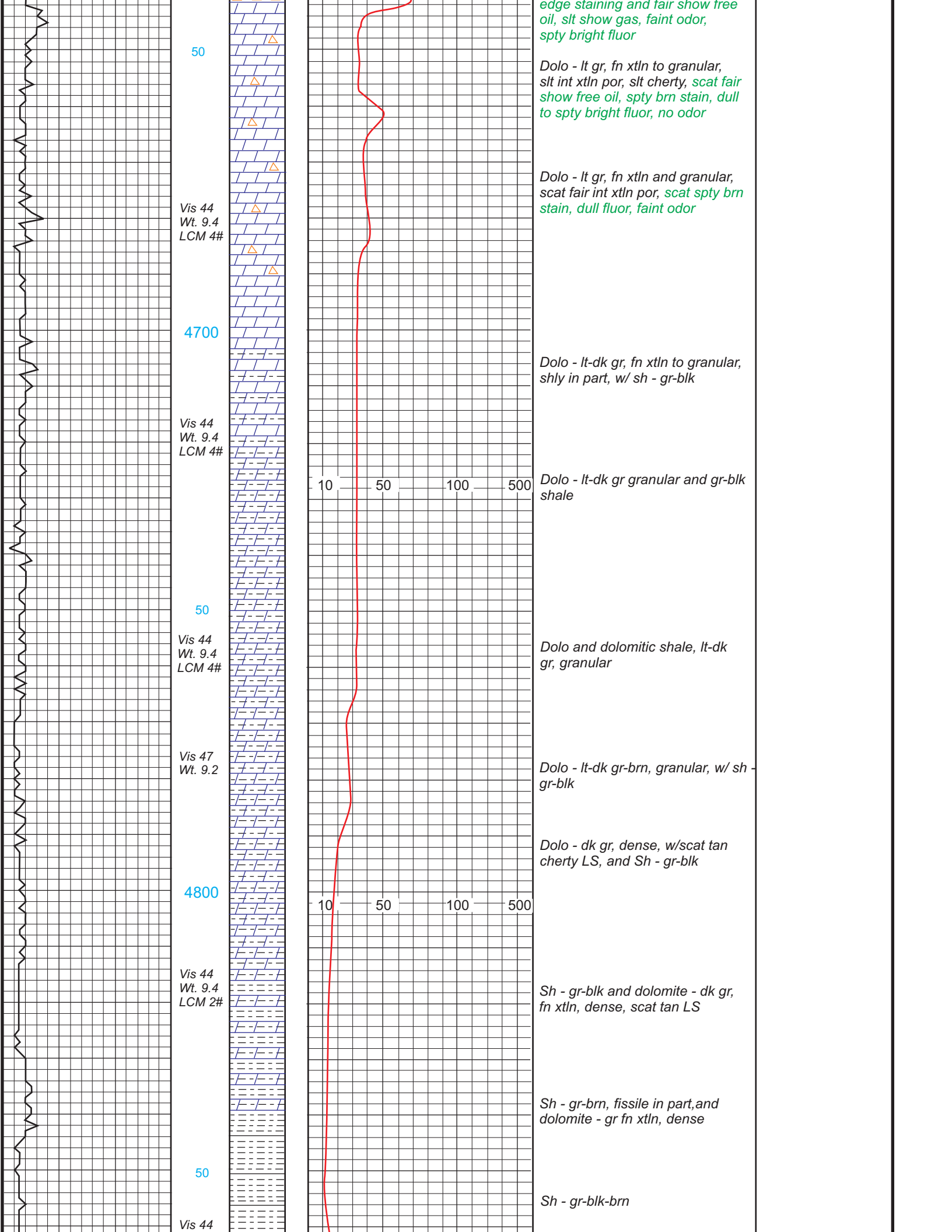
SAMPLE DESCRIPTION

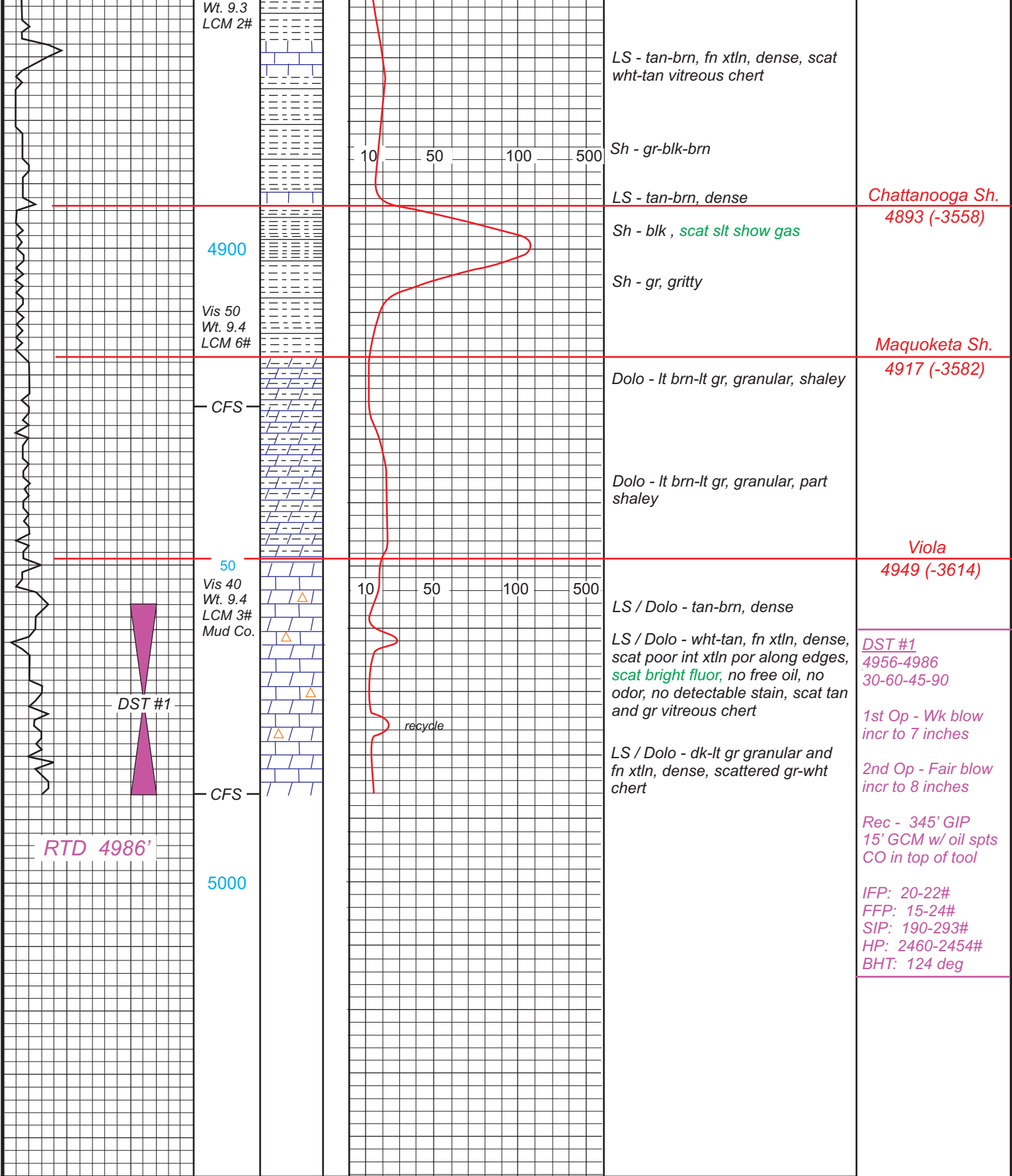
REMARKS











Chattanooga Sh.
4893 (-3558)

Maquoketa Sh.
4917 (-3582)

Viola
4949 (-3614)

DST #1
4956-4986
30-60-45-90

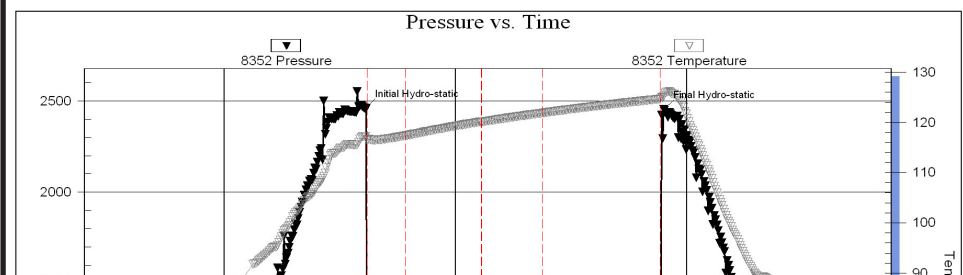
1st Op - Wk blow
incr to 7 inches

2nd Op - Fair blow
incr to 8 inches

Rec - 345' GIP
15' GCM w/ oil spts
CO in top of tool

IFP: 20-22#
FFP: 15-24#
SIP: 190-293#
HP: 2460-2454#
BHT: 124 deg

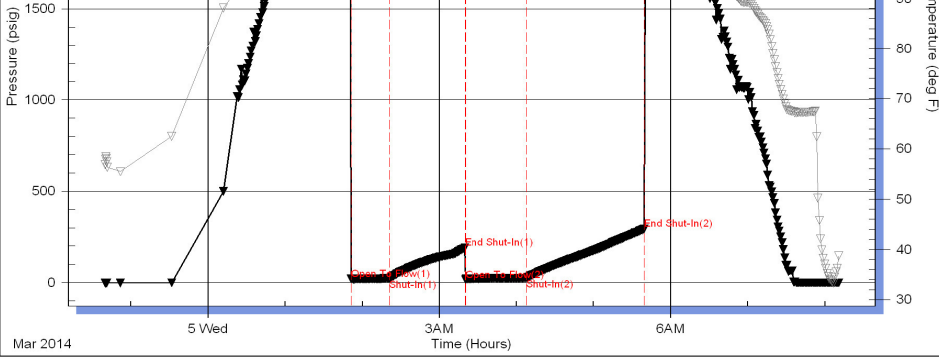
Serial # 8352 Inside N- 10 Exploration MMR E3 DST Test Number: 1



DST #1
4956-4986
30-60-45-90

1st Op - Wk blow
incr to 7 inches

2nd Op - Fair blow
incr to 8 inches



incr to 8 inches
 Rec - 345' GIP
 15' GCM w/ oil spts
 CO in top of tool

 IFP: 20-22#
 FFP: 15-24#
 SIP: 190-293#
 HP: 2460-2454#
 BHT: 124 deg

