



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1246166
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: _____



1246166

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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 063070

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE <u>12/10/14</u>	SEC <u>4</u>	TWP <u>31s</u>	RANGE <u>8w</u>	CALLED OUT	ON LOCATION <u>700 PM</u>	JOB START <u>10:30 PM</u>	JOB FINISH <u>11:30 PM</u>
LEASE <u>Culver</u>	WELL # <u>A #3</u>	LOCATION <u>Mgs Plant East 1mi, South then East into</u>			COUNTY <u>Harper</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR R Hardt
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 4658
 CASING SIZE 5 1/2 DEPTH 4641
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1400 MINIMUM
 MEAS. LINE SHOE JOINT 41
 CEMENT LEFT IN CSG. 41
 PERFS.
 DISPLACEMENT 114 Bbls Fresh H₂O + 2% KCl

OWNER R+B Oil + Gas
 CEMENT
 AMOUNT ORDERED 55 sx 60:40:4% Gel, 150 sx Class II + 10% salt + 5% K, local, 14 gal KCl, 500 gal ASF

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thinesch
 # 886/265 HELPER Robert Johnson
 BULK TRUCK
 # 381/252 DRIVER Kindel Holman
 BULK TRUCK
 # DRIVER

COMMON <u>H 150 sx</u>	@ <u>27.24</u>	<u>4086.00</u>
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
<u>60:40:4% gel 55 sx</u>	@ <u>18.92</u>	<u>1040.60</u>
<u>Sms 14</u>	@ <u>3.30</u>	<u>46.20</u>
<u>Kolseal 750*</u>	@ <u>9.8</u>	<u>735.00</u>
<u>SAH 750*</u>	@ <u>6.8</u>	<u>510.00</u>
<u>KCL 14 Gals</u>	@ <u>34.40</u>	<u>481.60</u>
<u>ASF 12 Bbls</u>	@ <u>25.00</u>	<u>300.00</u>
HANDLING	@	
MILEAGE	@	
<u>20% 1439.88</u>		<u>TOTAL 7199.40</u>

REMARKS:

CHARGE TO: R+B Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

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

PRINTED NAME TIM PIERCE
 SIGNATURE Tim Pierce

SERVICE

DEPTH OF JOB <u>4641</u>		
PUMP TRUCK CHARGE <u>2765</u>		
EXTRA FOOTAGE <u>LV 28 mi</u>	@ <u>4.40</u>	<u>123.20</u>
MILEAGE <u>28 mi</u>	@ <u>7.70</u>	<u>215.60</u>
MANIFOLD <u>Head</u>	@	<u>275.00</u>
Handling <u>234.71</u>	@ <u>2.48</u>	<u>582.08</u>
Drayage <u>162.67</u>	@ <u>2.75</u>	<u>282.31</u>
<u>20% = 848.64</u>		<u>TOTAL 4243.22</u>

PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>		
Centralizers <u>8</u>	@ <u>57.00</u>	<u>456.00</u>
Recip scratcher <u>10</u>	@ <u>89.00</u>	<u>890.00</u>
Top Rubber Plug <u>1</u>	@	<u>85.00</u>
Rag Guide Shoe <u>1</u>	@	<u>281.00</u>
AFU Inset <u>1</u>	@	<u>335.00</u>
		<u>TOTAL 2047.00</u>

SALES TAX (If Any) _____
 TOTAL CHARGES 13,489.62
 DISCOUNT _____ IF PAID IN 30 DAYS
NET 11,201.09

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R & B Oil & Gas, Inc.

ELEVATIONS

LEASE Culver 'A' #3

KB 1673'

FIELD Spivey-Grabs

LOCATION 2170' FNL & 660' FWL

DF _____

SEC 4 TWSP 31S RGE 8W

GL 1663'

COUNTY Harper STATE Kansas

CONTRACTOR Hardt Drilling Rig #1

Measurements Are All
From Kelly Bushing

SPUD 12-02-2014 COMP 12-10-2014

RTD 4658* LTD 4646

CASING

MUD UP 2945 TYPE MUD Chemical

CONDUCTOR _____
SURFACE 8-5/8" at 249'

SAMPLES SAVED FROM 3400 TO RTD

PRODUCTION 5-1/2" at 4652'

DRILLING TIME KEPT FROM 3400 TO RTD

SAMPLES EXAMINED FROM 3400 TO RTD

GEOLOGICAL SUPERVISION FROM 3650' to RTD

GEOLOGIST ON WELL Tim Pierce

Pioneer Energy Svcs.

FORMATION TOPS ELECTRIC LOG SAMPLE

Heebner Sh. 3416 (-1743) 3417 (-1744)

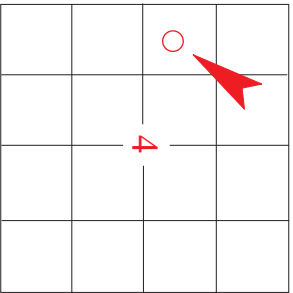
Lansing 3612 (-1939) 3615 (-1942)

Stark Sh. 4054 (-2381) 4058 (-2385)

Cherokee Sh. 4296 (-2623) 4300 (-2627)

Mississippi 4394 (-2721) 4401 (-2728)

Kinderhook Sh. 4610 (-2937) 4612 (-2939)



API # 15-077-22, 122

REMARKS The log top of the Mississippi was 7' shallower than picked on drill time. Therefore DST #2 did not cover the better portion of the upper chert section and a better recovery might have resulted. Samples and electric logs indicate probable production from both the upper and lower chert sections of the Mississippi.

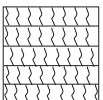
Slight sample shows were noted in the KC Hertha zone at 4102-4108, and the KC 'A' zone at 3950-3954, both these zones appear to be non-commercial after electric log examination.

There were no other zones of interest indicated by samples or electric logs.

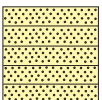
An additional 10' was drilled after logs were run to allow for locating production casing collar at ground level - New RTD 4658'.

Timothy G. Pierce

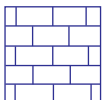
LEGEND



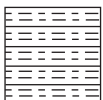
Anhydrite



Sandstone



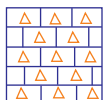
Limestone



Shale



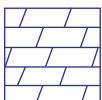
Carb Sh



Cherty LS



Chert



Dolomite

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases



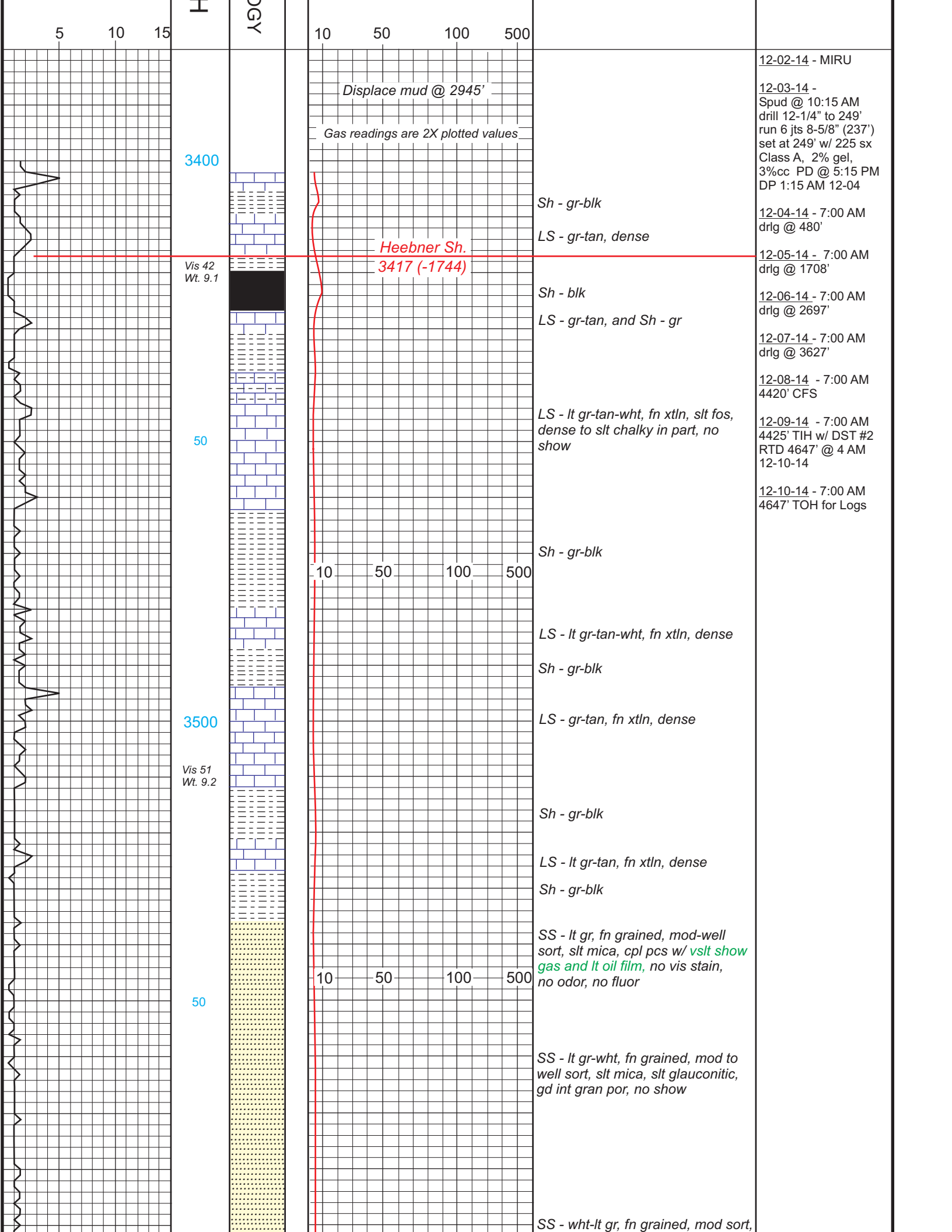
DEPTH

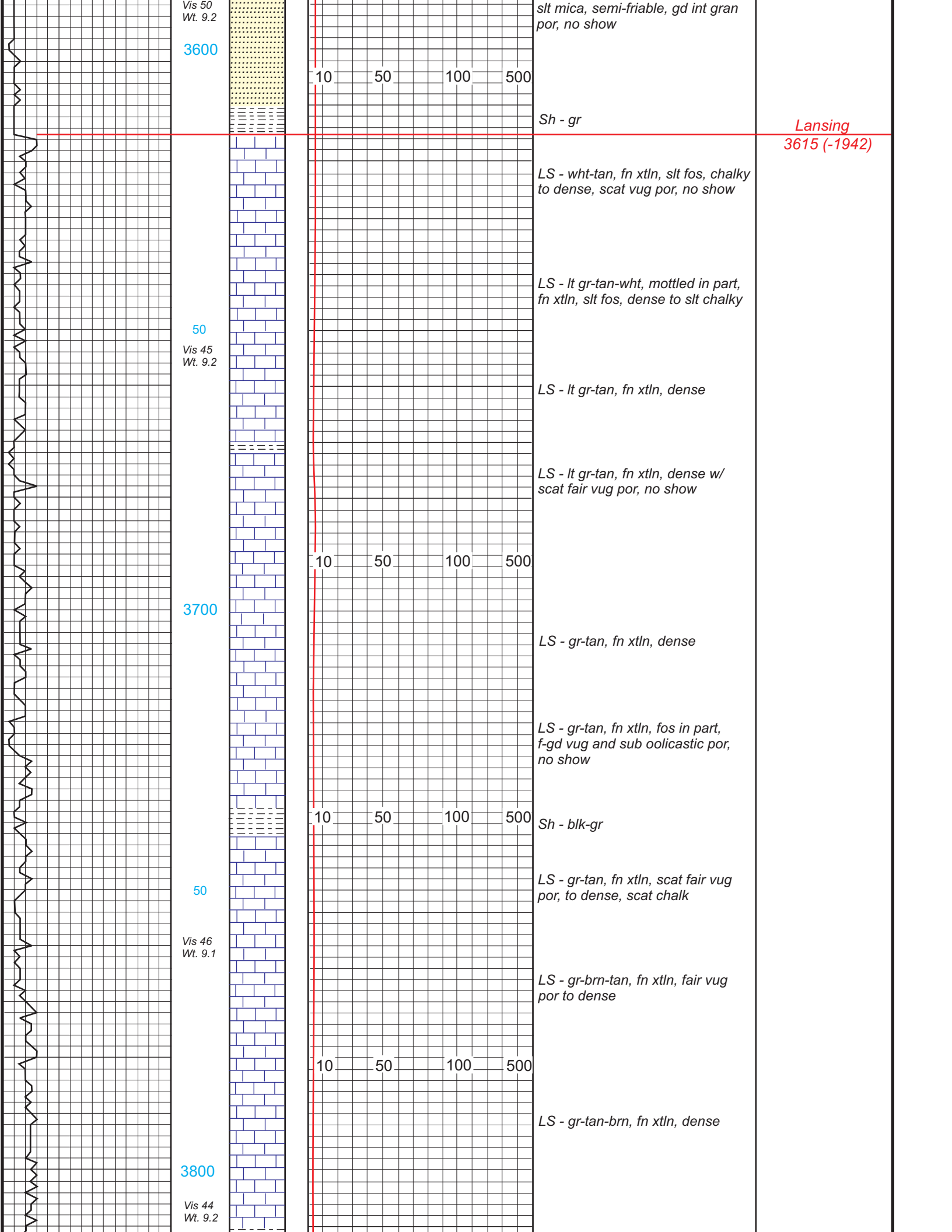
LITHOLOG

GAS SCALE

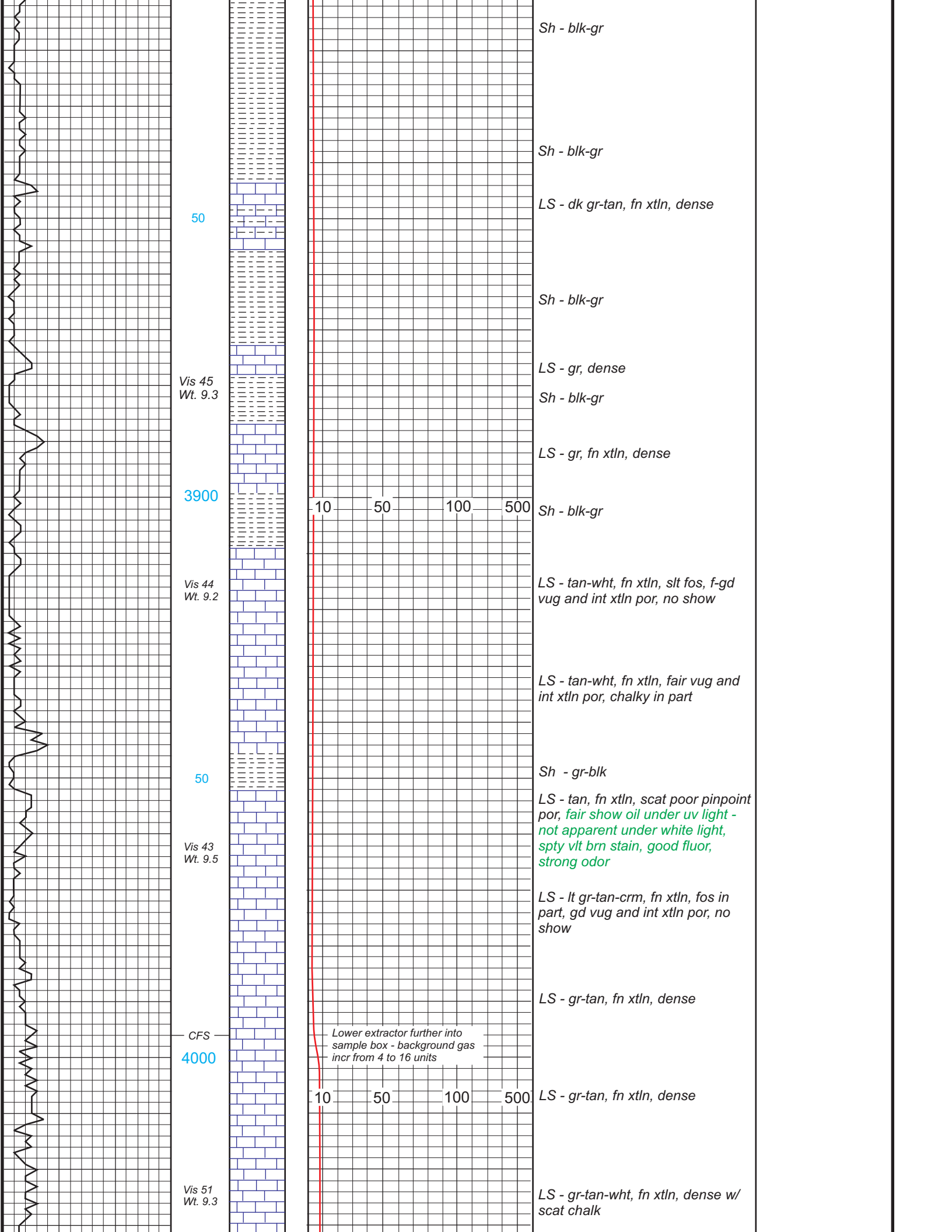
SAMPLE DESCRIPTION

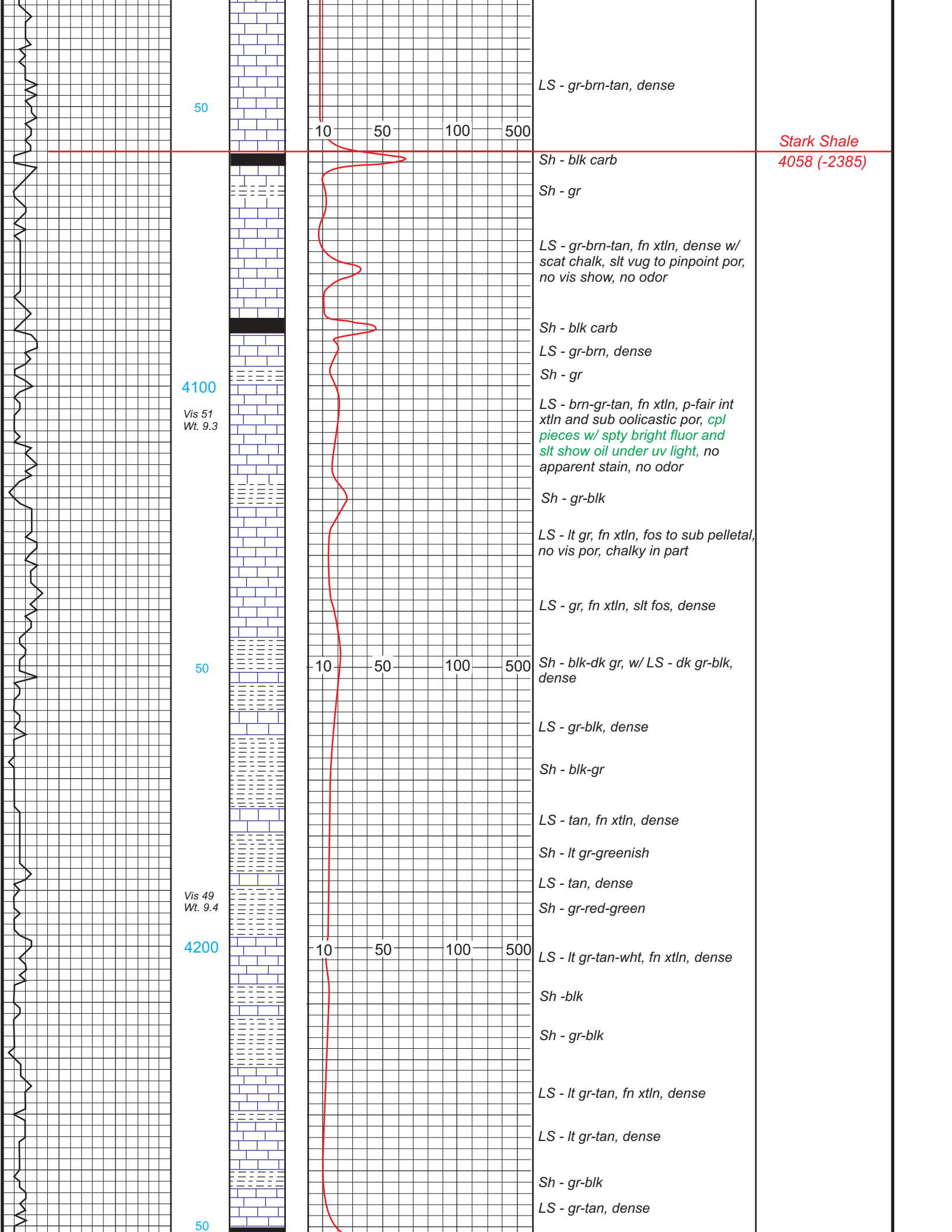
REMARKS





Lansing
3615 (-1942)





50

LS - gr-brn-tan, dense

10 50 100 500

Stark Shale
4058 (-2385)

Sh - blk carb

Sh - gr

LS - gr-brn-tan, fn xtln, dense w/
scat chalk, slt vug to pinpoint por,
no vis show, no odor

Sh - blk carb

LS - gr-brn, dense

Sh - gr

4100

Vis 51
Wt. 9.3

LS - brn-gr-tan, fn xtln, p-fair int
xtln and sub oolitic por, *cpl
pieces w/ spty bright fluor and
slt show oil under uv light, no
apparent stain, no odor*

Sh - gr-blk

LS - lt gr, fn xtln, fos to sub pelletal,
no vis por, chalky in part

LS - gr, fn xtln, slt fos, dense

50

10 50 100 500

Sh - blk-dk gr, w/ LS - dk gr-blk,
dense

LS - gr-blk, dense

Sh - blk-gr

LS - tan, fn xtln, dense

Sh - lt gr-greenish

LS - tan, dense

Sh - gr-red-green

Vis 49
Wt. 9.4

4200

10 50 100 500

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

Sh -blk

Sh - gr-blk

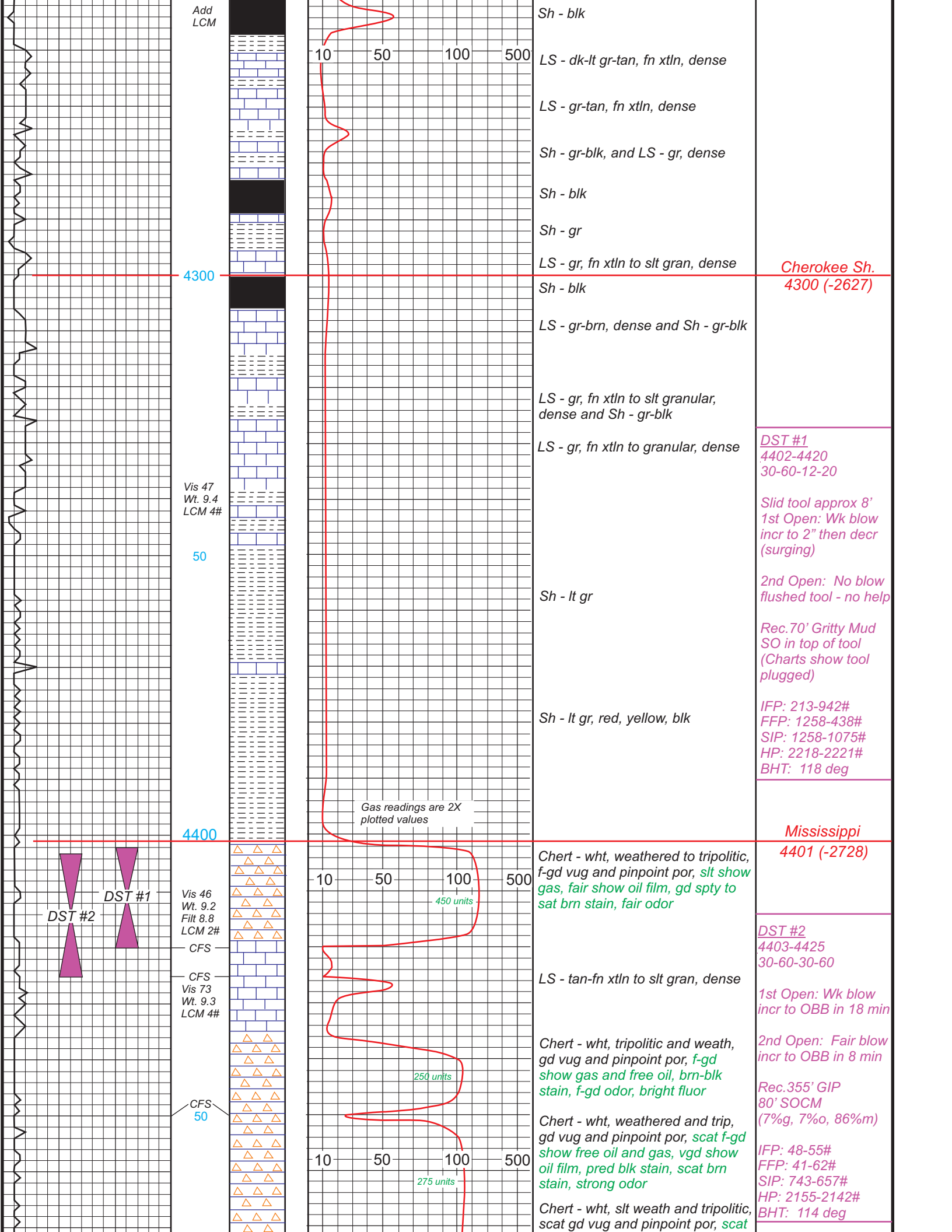
LS - lt gr-tan, fn xtln, dense

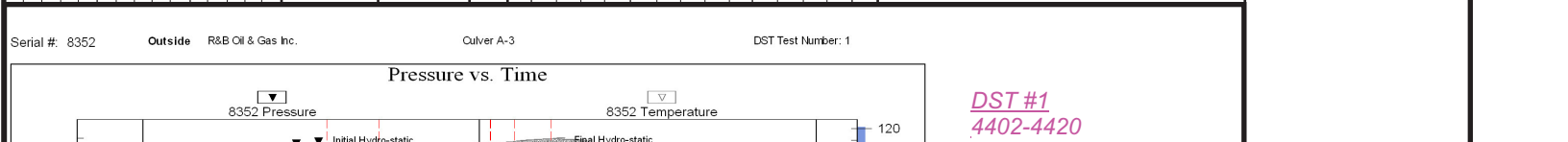
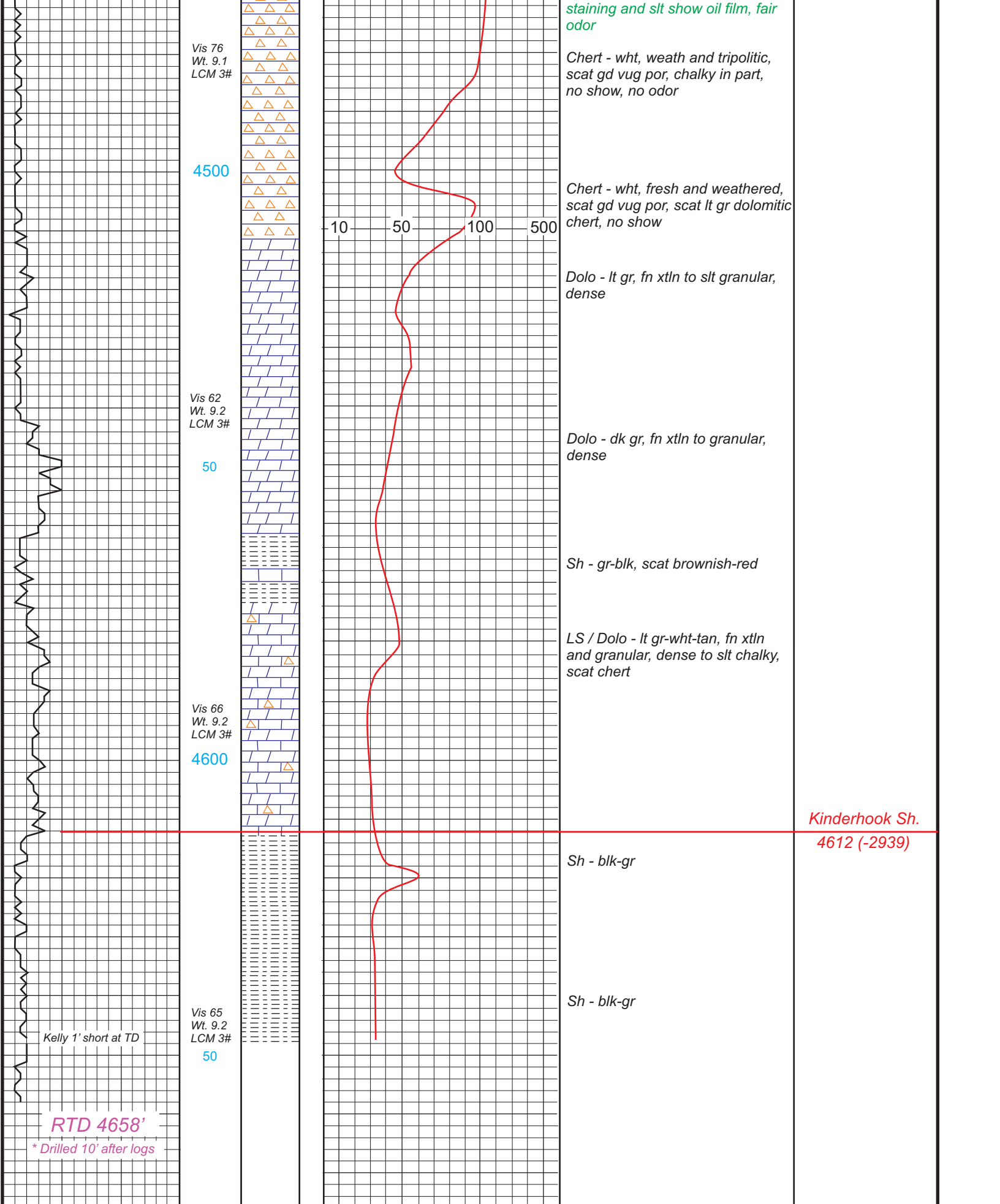
LS - lt gr-tan, dense

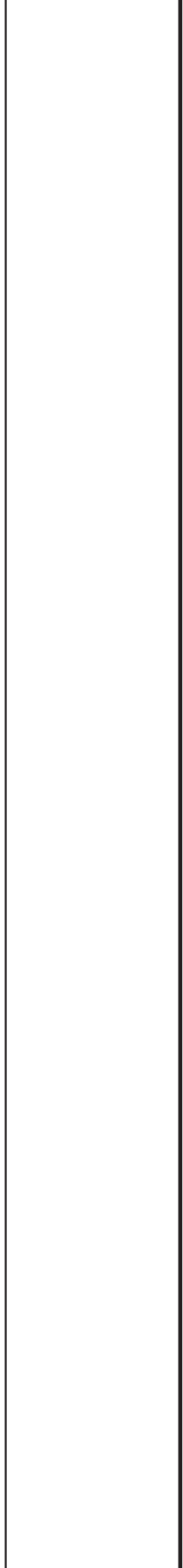
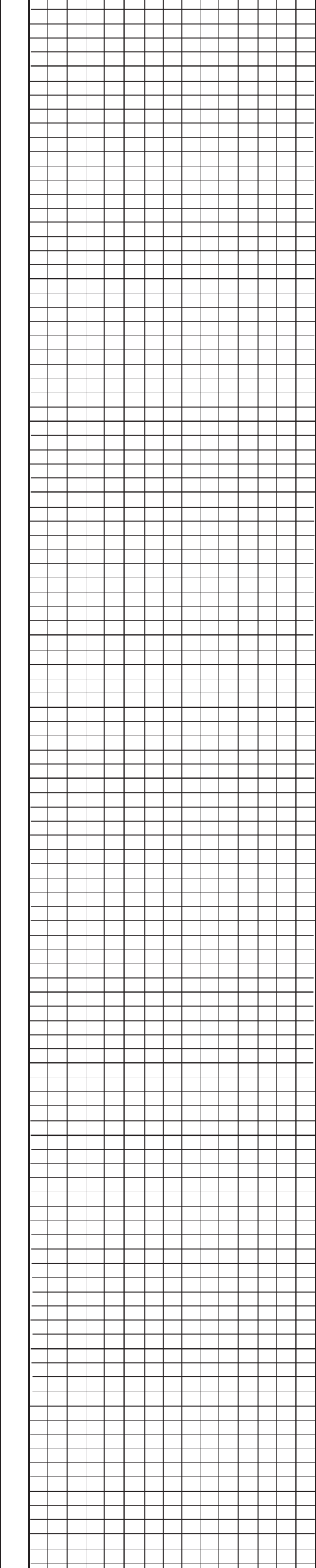
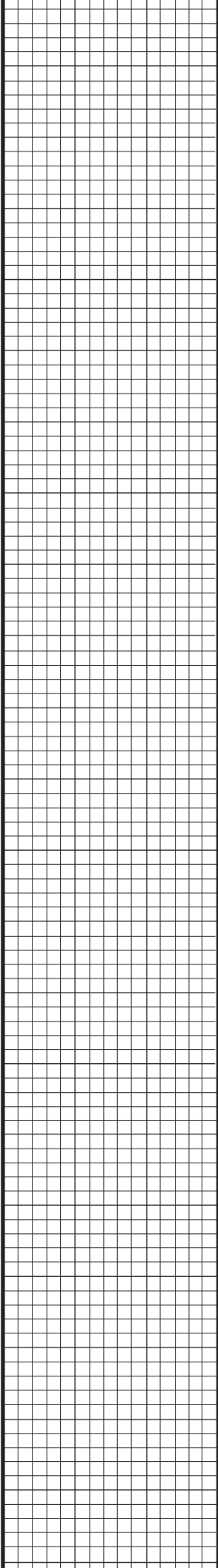
Sh - gr-blk

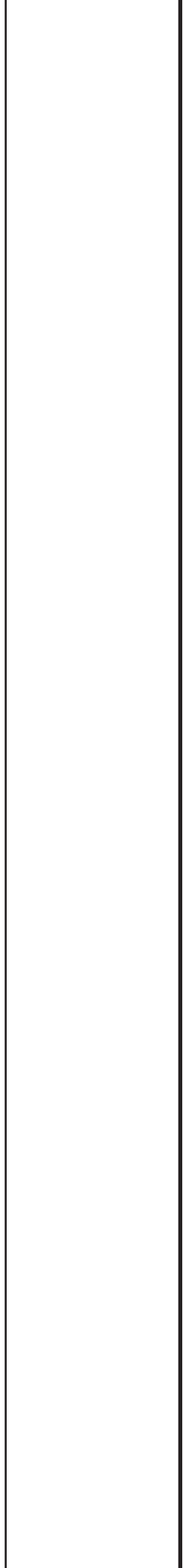
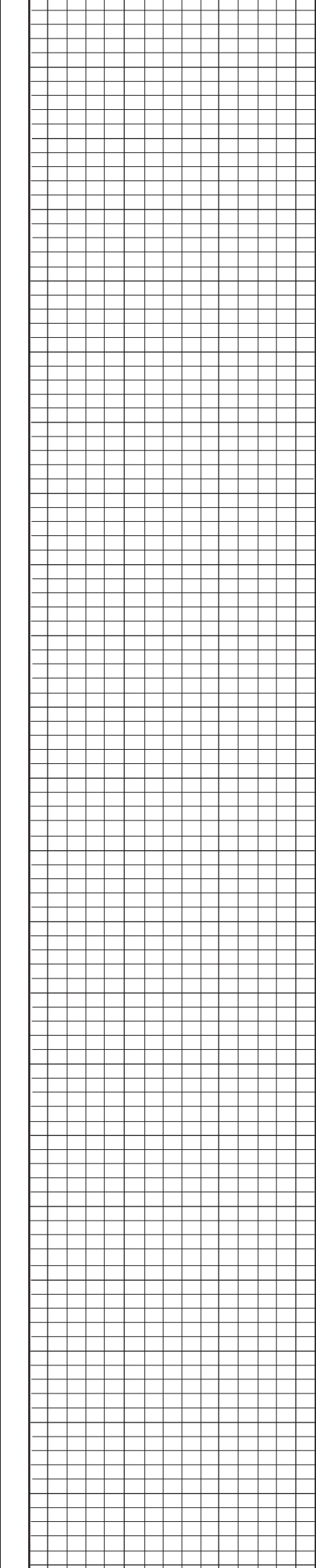
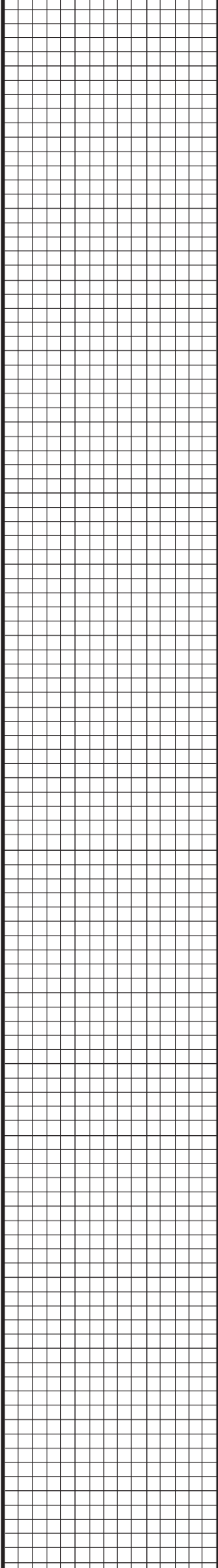
LS - gr-tan, dense

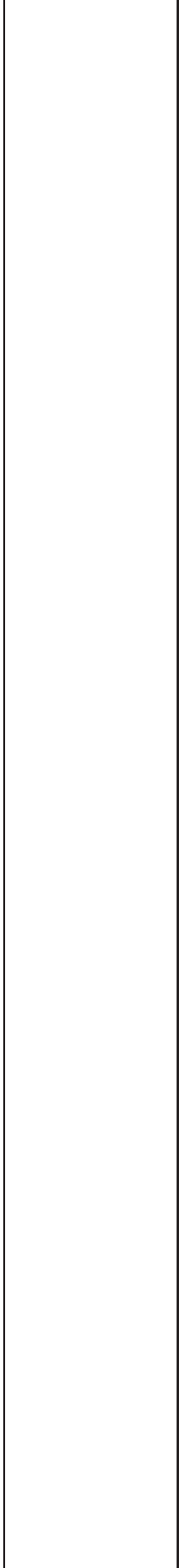
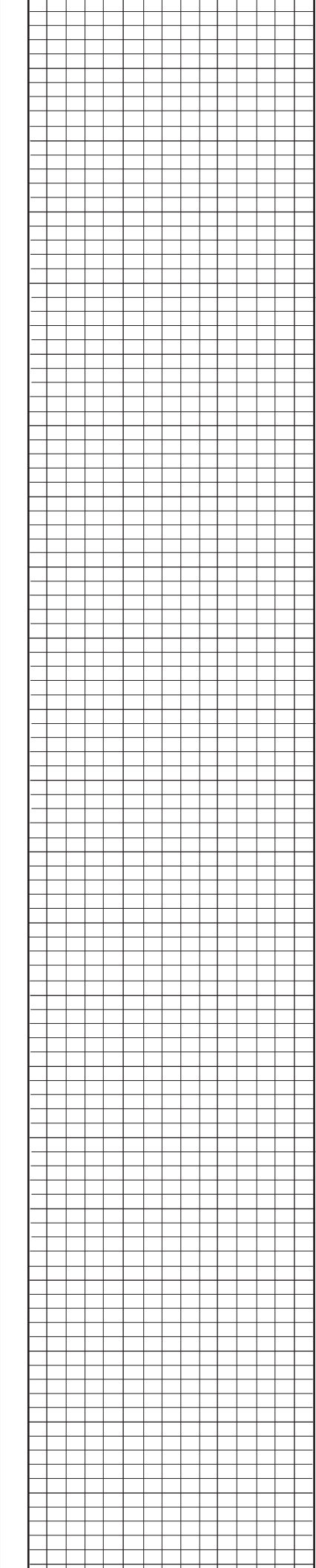
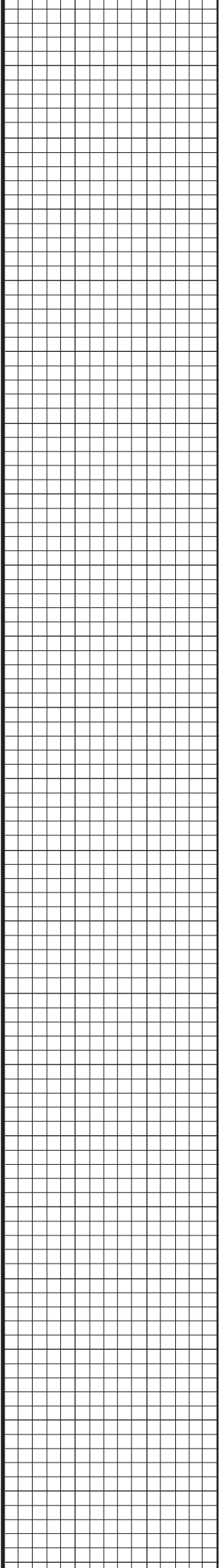
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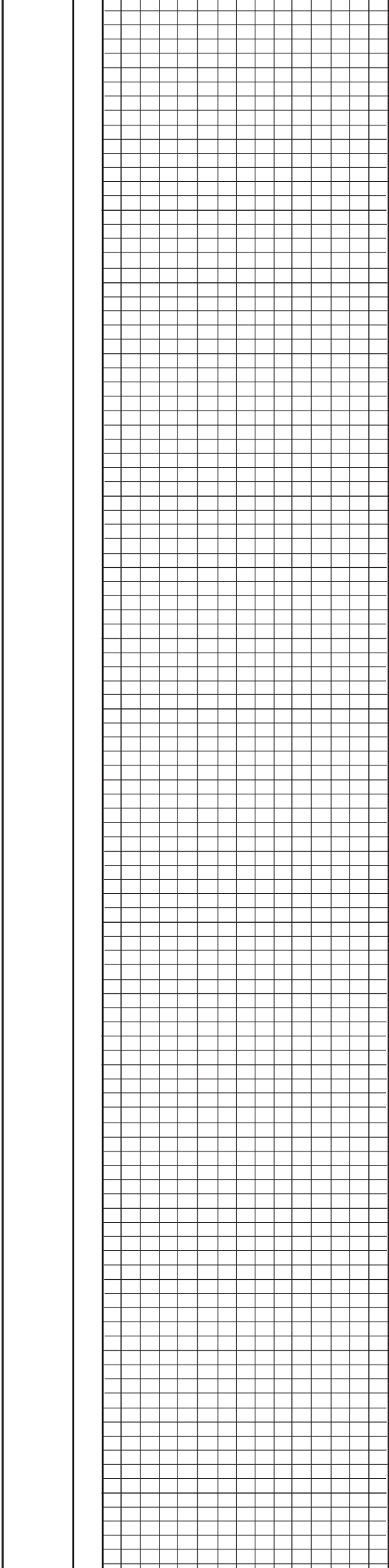
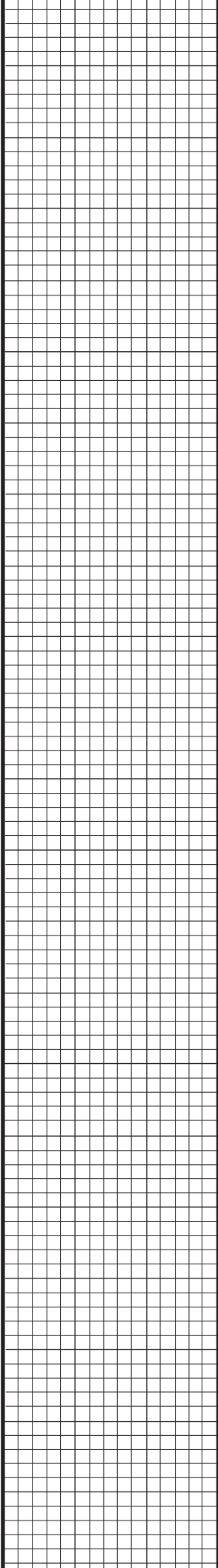


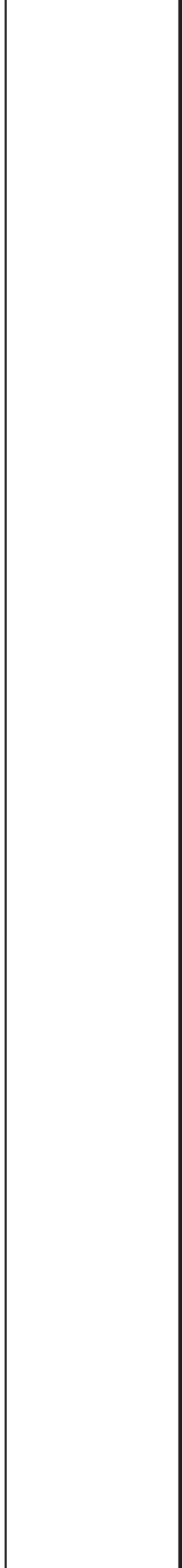
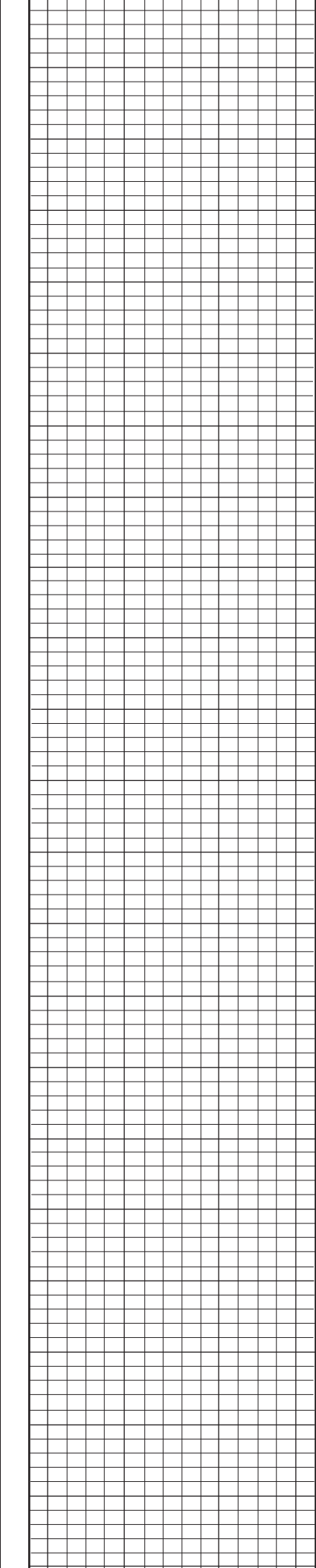
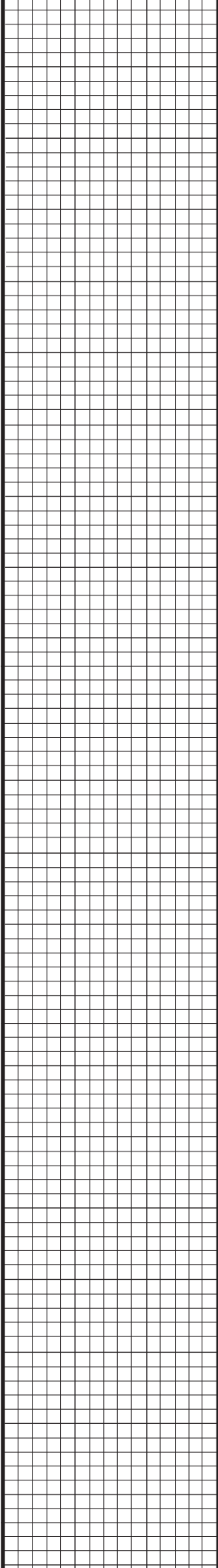


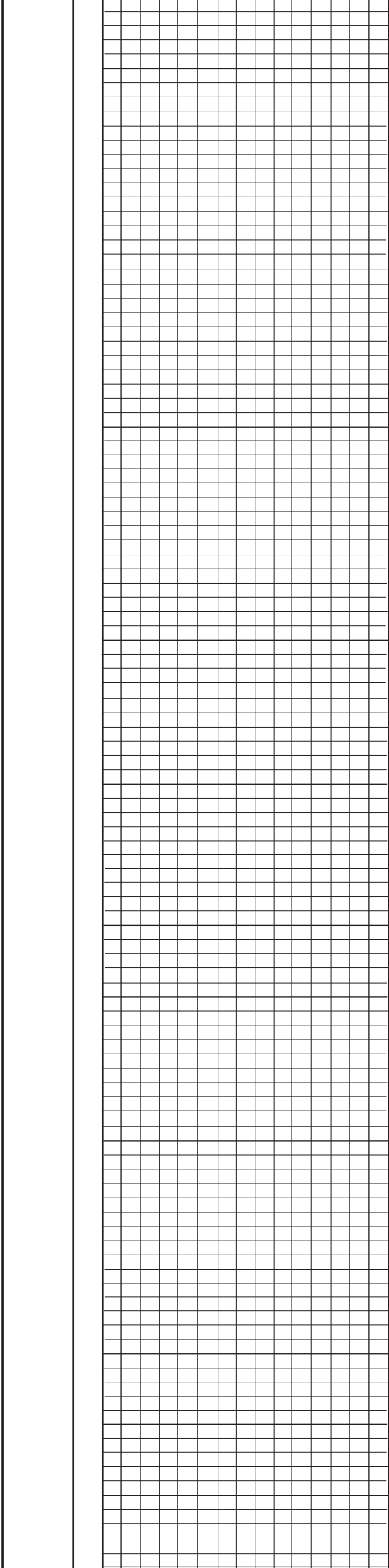
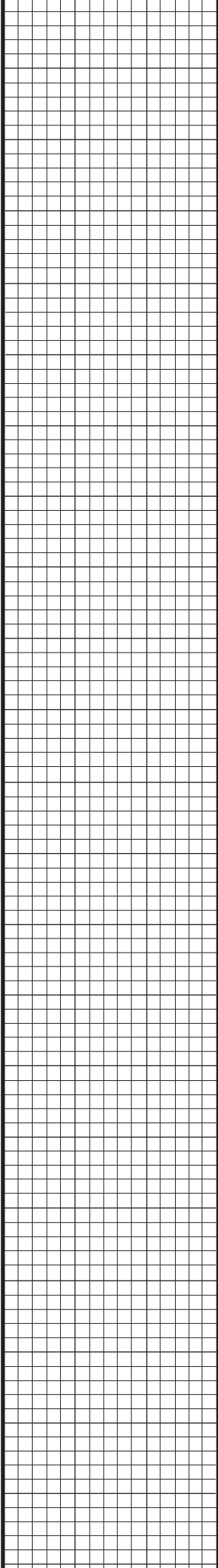


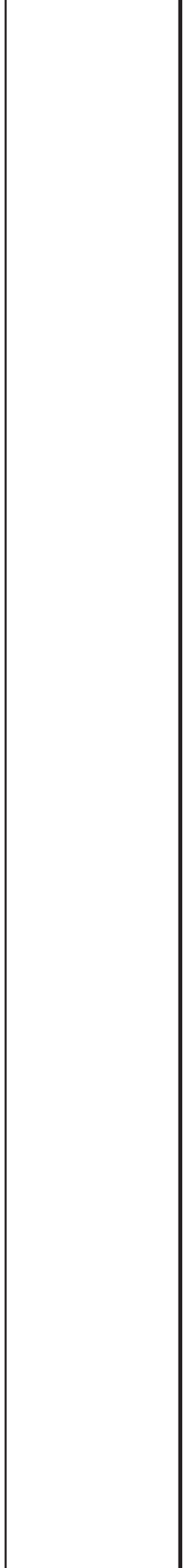
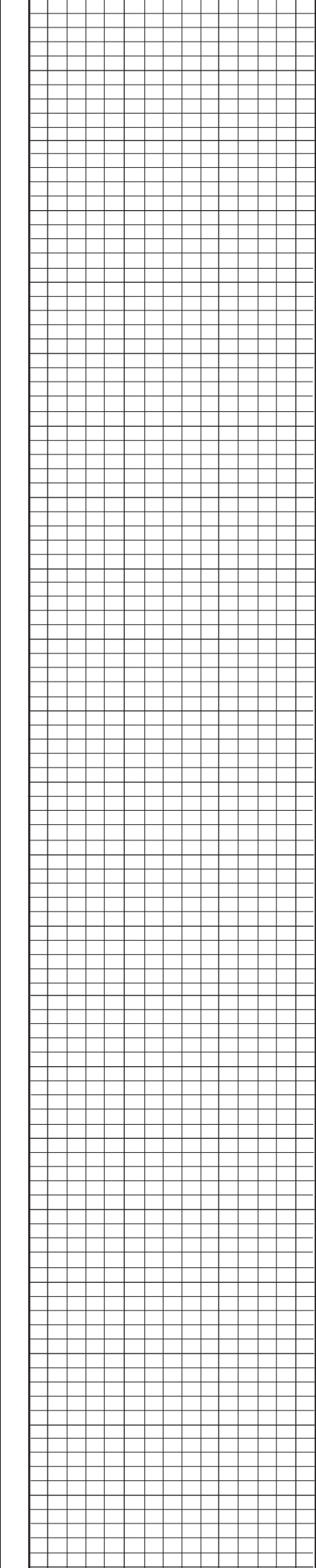
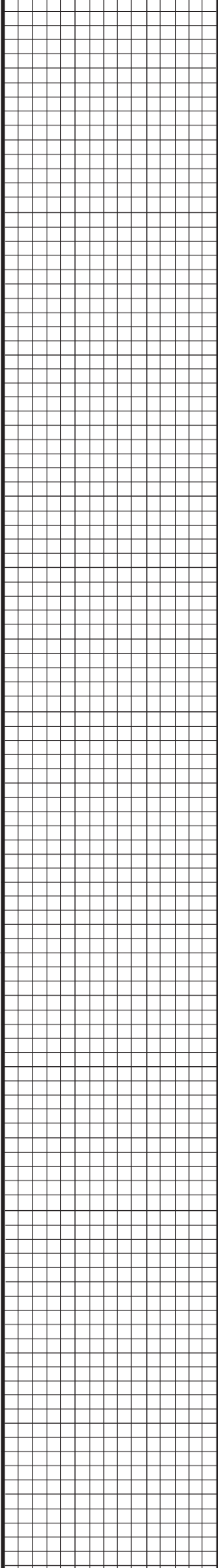


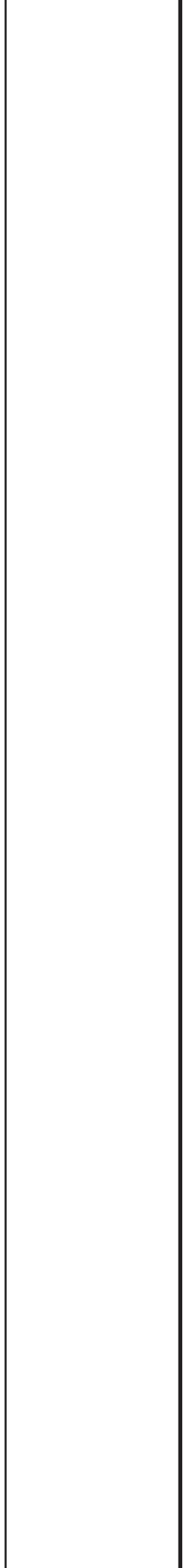
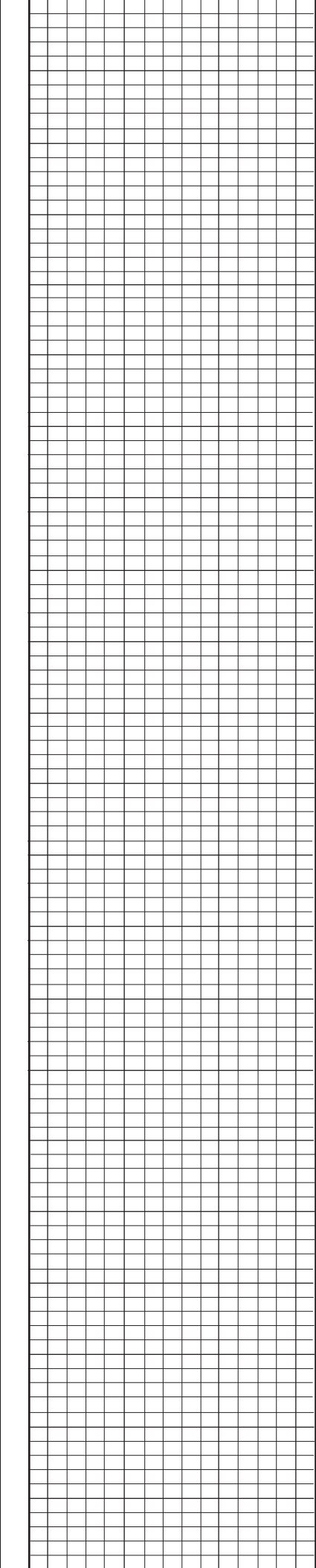
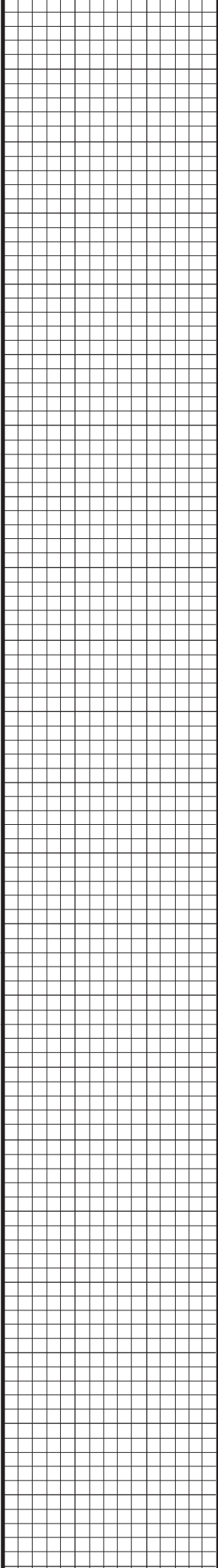


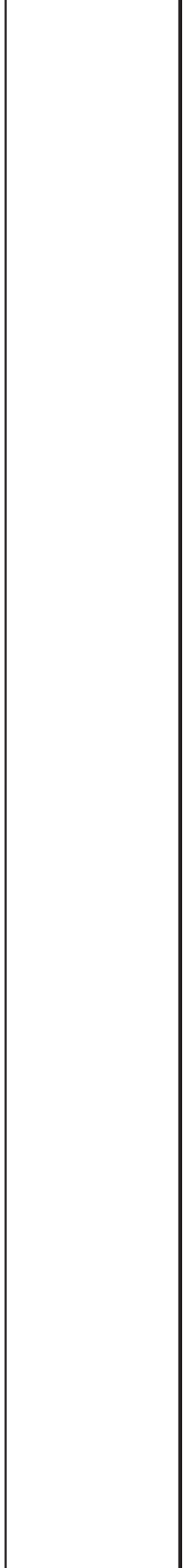
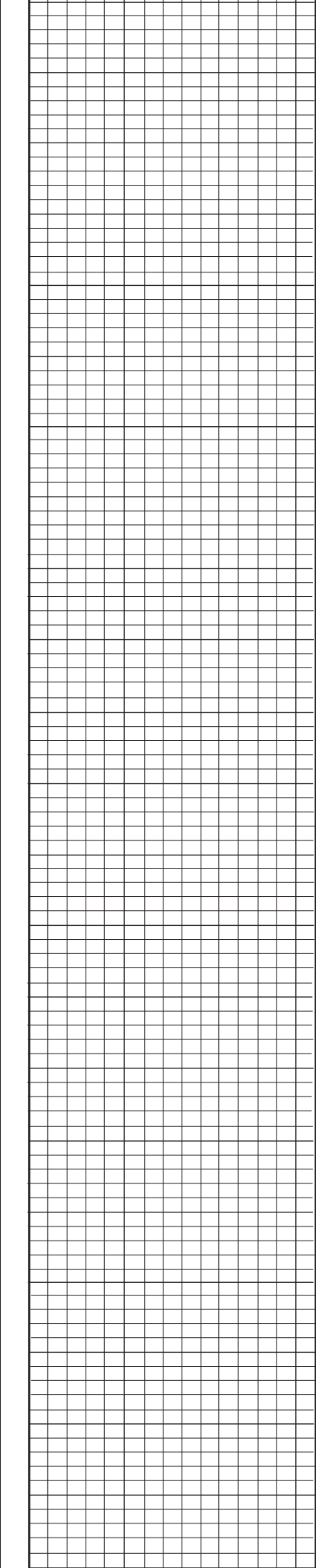
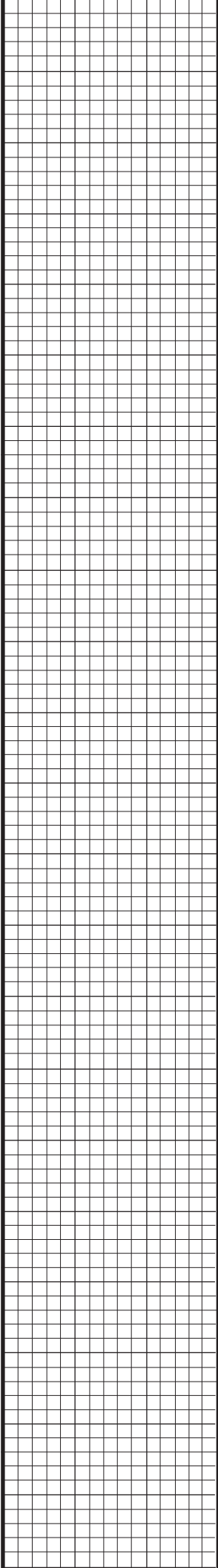


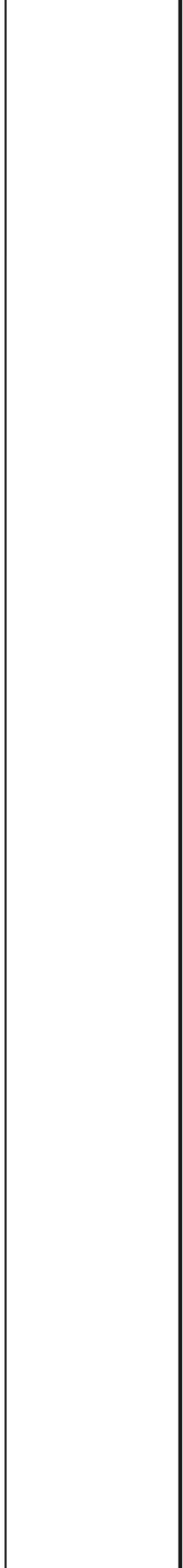
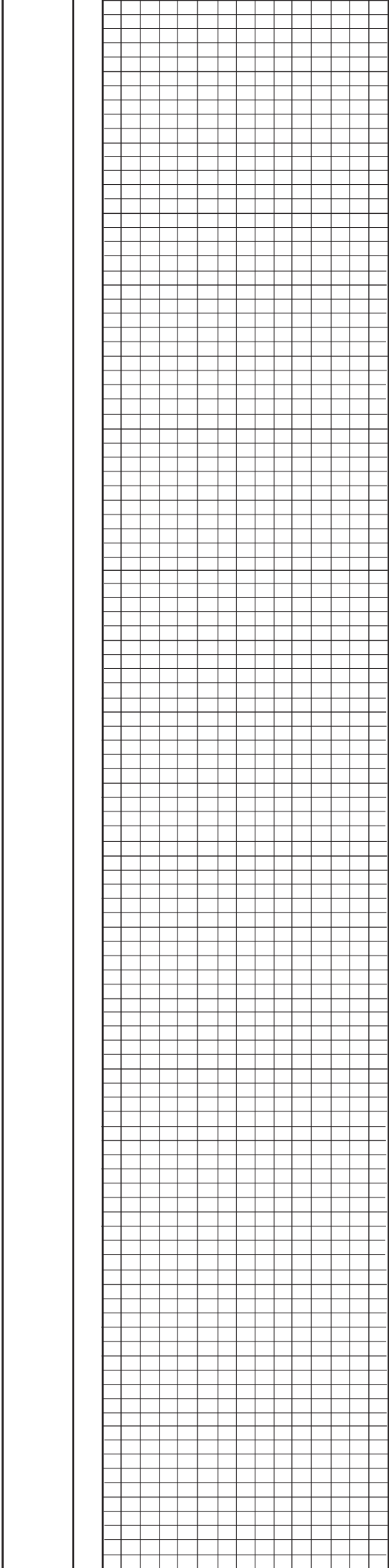
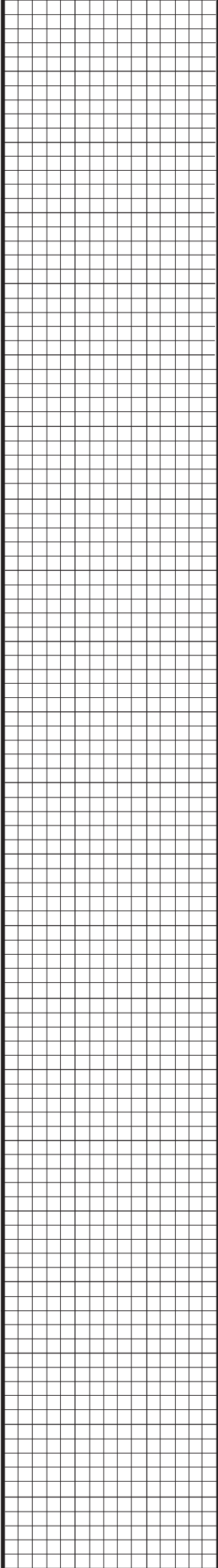


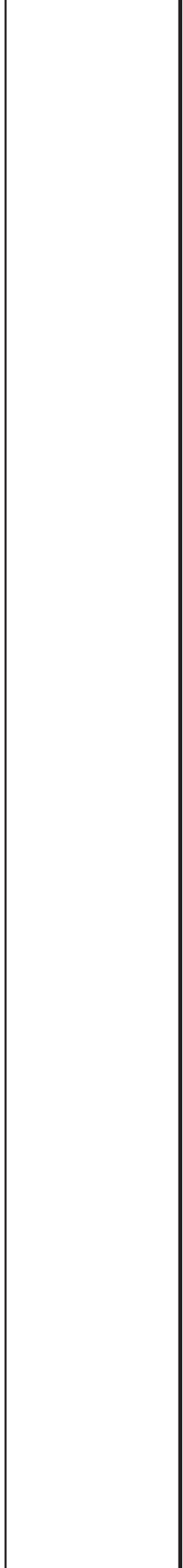
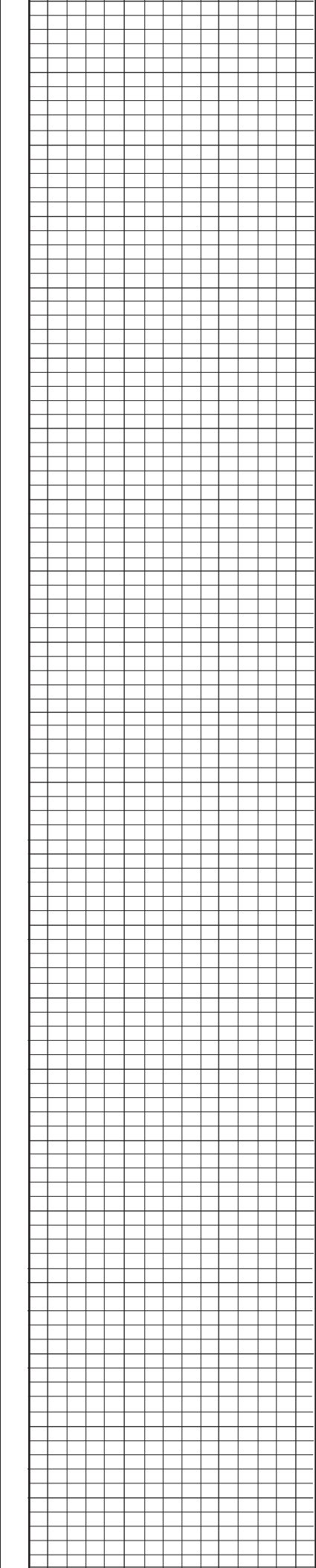
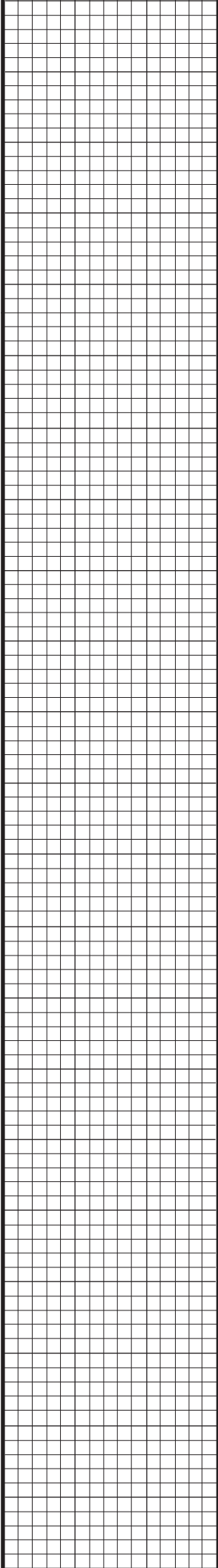


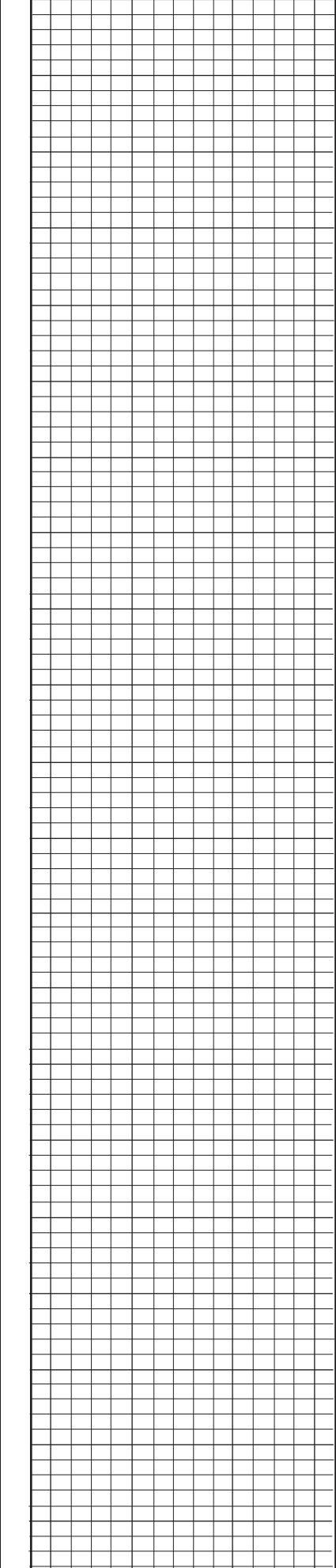
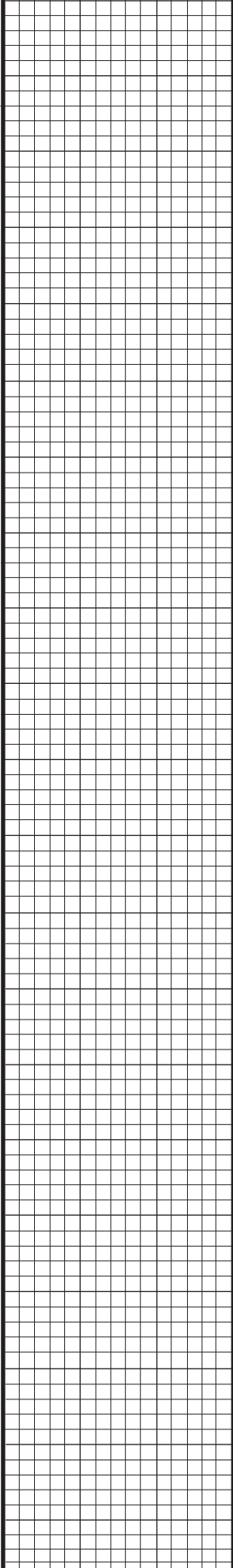


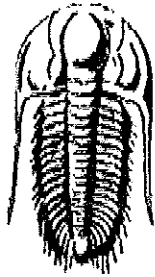












TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas Inc.**

PO Box 195
Attica KS .67009

ATTN: Tim Pierce

Culver #A3

4-31s-8w Harper,KS

Start Date: 2014.12.08 @ 17:43:32

End Date: 2014.12.09 @ 00:03:32

Job Ticket #: 59730 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.12.12 @ 13:12:35

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

Culver #A3

DST # 1

Mississippi

2014.12.08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

R&B Oil & Gas Inc.

4-31s-8w Harper, KS

PO Box 195
Attica KS .67009

Culver #A3

Job Ticket: 59730

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.12.08 @ 17:43:32

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:02

Time Test Ended: 00:03:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4402.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 1673.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

1663.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GRVCF: 10.00 ft

Serial #: 8352

Outside

Press@RunDepth: 437.56 psig @ 4403.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.08 End Date: 2014.12.09

Last Calib.: 2014.12.08

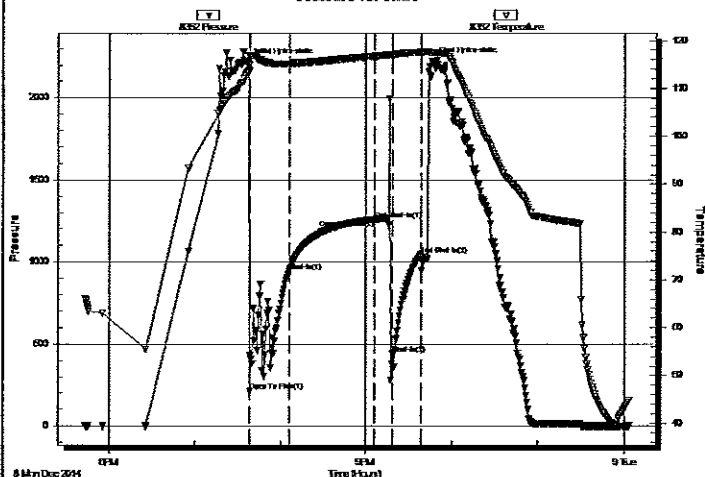
Start Time: 17:43:37 End Time: 00:03:31

Time On Btm: 2014.12.08 @ 19:36:32

Time Off Btm: 2014.12.08 @ 21:45:47

TEST COMMENT: IF: Weak surging blow. (2" decreasing)
IS: No blow.
FF: No blow. Flushed tool 4 mins. in to FFP. Fair surge. No blow.
FS: No blow. Comment: 10 ft. of hard fill on btm. Slid tool 6 - 8 ft.

Pressure vs. Time



PRESSURE SUMMARY

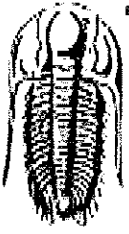
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.53	113.44	Initial Hydro-static
2	212.54	113.88	Open To Flow (1)
30	942.09	115.29	Shut-in (1)
90	1257.67	116.74	End Shut-in (1)
90	1257.77	116.75	Open To Flow (2)
103	437.56	116.97	Shut-in (2)
122	1045.43	117.58	End Shut-in (2)
130	2220.79	117.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	Gritty mud Oil show @ top of tool	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195
Attica KS .67009

Culver #A3

Job Ticket: 59730

DST#: 1

ATTN: Tim Ferce

Test Start: 2014.12.08 @ 17:43:32

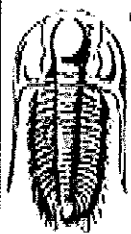
Tool Information

Drill Pipe:	Length: 4274.00 ft	Diameter: 3.80 inches	Volume: 59.95 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: 84000.00 lb
			Total Volume: 60.54 bbl	Tool Chased 7.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4402.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			4375.00	
Shut In Tool	5.00			4380.00	
Hydraulic tool	5.00			4385.00	
Jars	5.00			4390.00	
Safety Joint	3.00			4393.00	
Packer	4.00			4397.00	28.00 Bottom Of Top Packer
Packer	5.00			4402.00	
Stubb	1.00			4403.00	
Recorder	0.00	8352	Outside	4403.00	
Recorder	0.00	8370	Inside	4403.00	
Perforations	12.00			4415.00	
Bullnose	5.00			4420.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195
Attica KS .67009

Culver #A3

Job Ticket: 59730

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.12.08 @ 17:43:32

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:

5500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	Gritty mud Oil show @ top of tool	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

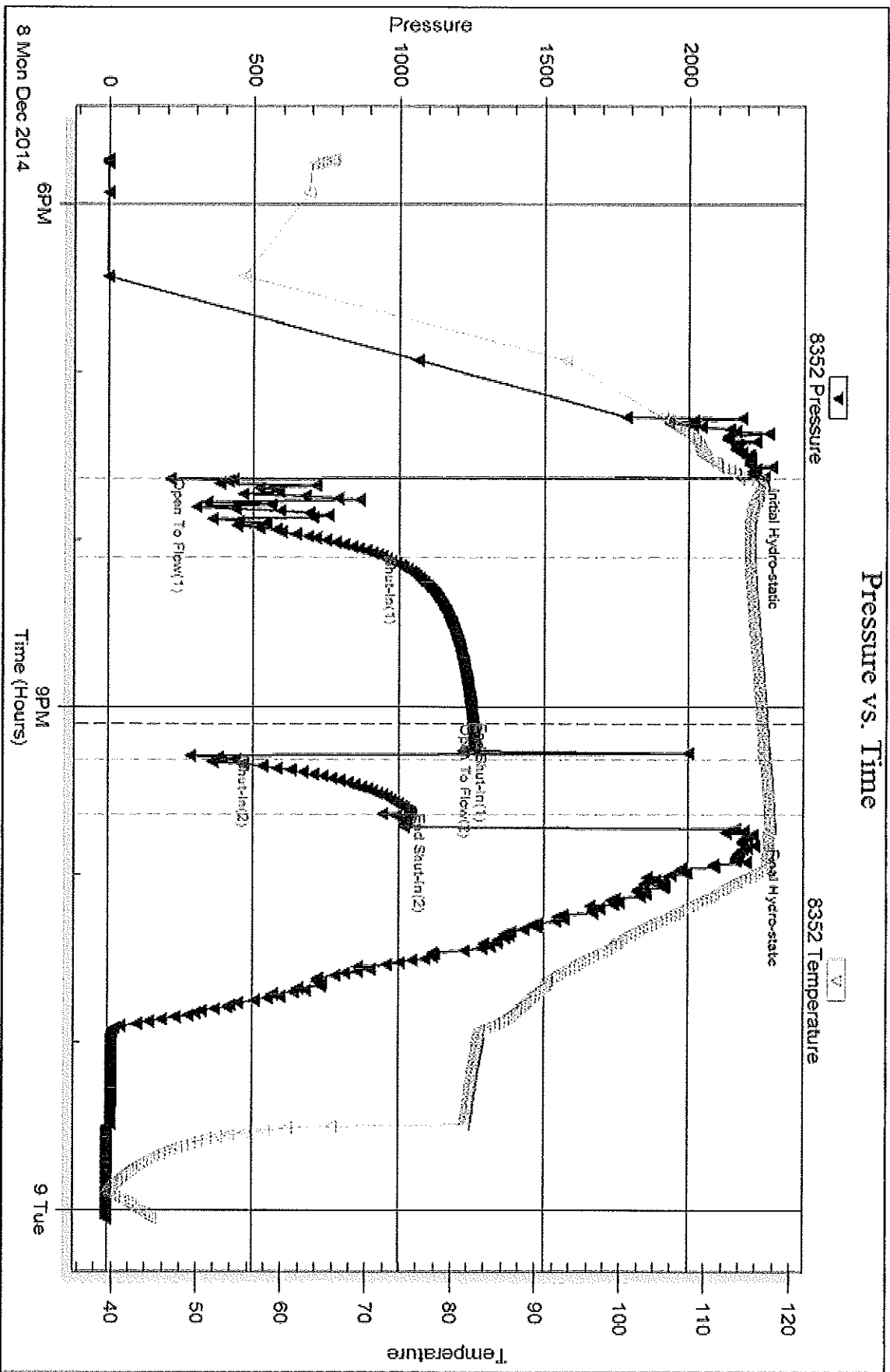
Outside

R&B Oil & Gas Inc.

Oliver #A3

Ost Test Number: 1

Pressure vs. Time



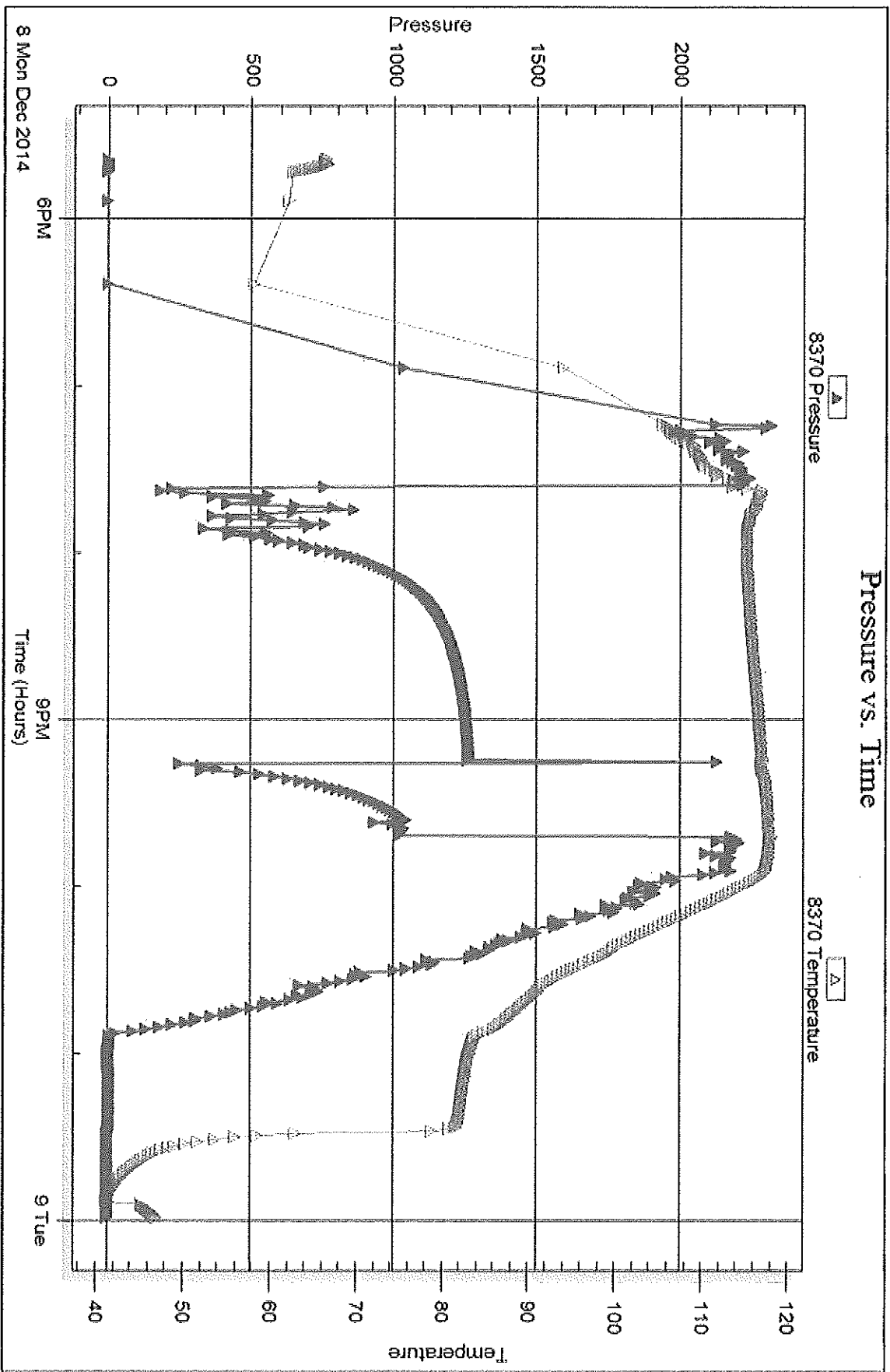
Serial #: 8370

Inside

R&B Oil & Gas Inc.

Client #A3

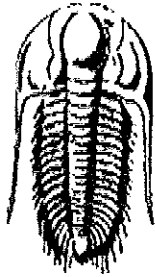
DST Test Number: 1



Tiobate Testing, Inc

Ref. No: 59730

Printed: 2014-12-12 @ 13:12:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **R&B Oil & Gas Inc.**

PO Box 195
Attica KS .67009

ATTN: Tim Pierce

Culver #A3

4-31s-8w Harper,KS

Start Date: 2014.12.09 @ 06:50:41

End Date: 2014.12.09 @ 14:41:26

Job Ticket #: 59731 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.12.12 @ 13:11:24

R&B Oil & Gas Inc.

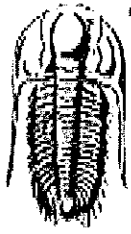
4-31s-8w Harper,KS

Culver #A3

DST # 2

Mississippi

2014.12.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195
Attica KS .67009

Culver #A3

Job Ticket: 59731

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.12.09 @ 06:50:41

GENERAL INFORMATION:

Formation: **Mississippi**

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

Time Tool Opened: 09:36:11

Time Test Ended: 14:41:26

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

Tester: **Gary Pevoteaux**

Unit No: **80**

Interval: **4403.00 ft (KB) To 4425.00 ft (KB) (TVD)**

Total Depth: **4425.00 ft (KB) (TVD)**

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

Reference Elevations: **1673.00 ft (KB)**

1663.00 ft (CF)

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

Serial #: **8352**

Outside

Press@RunDepth: **61.81 psig @ 4404.00 ft (KB)**

Start Date: **2014.12.09**

End Date:

2014.12.09

Start Time: **06:50:46**

End Time:

14:41:25

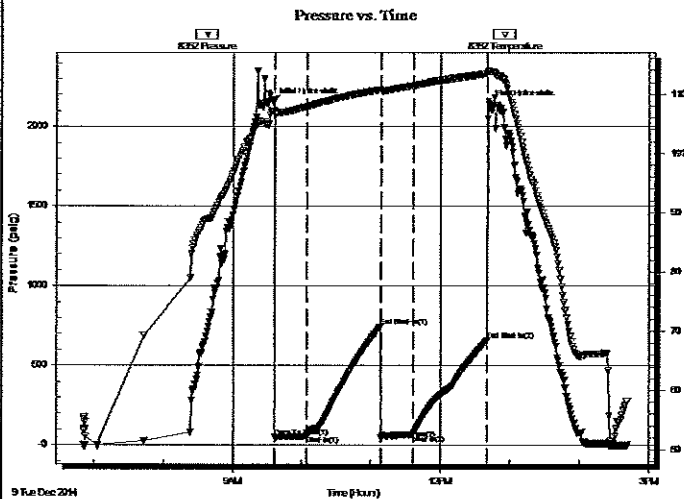
Capacity: **8000.00 psig**

Last Calib.: **2014.12.09**

Time On Btm: **2014.12.09 @ 09:34:26**

Time Off Btm: **2014.12.09 @ 12:41:56**

TEST COMMENT: **IF:Fair to strong blow . B.O.B. in 18 mins.
IS:Weak blow . 1/2 - 1 1/4".
FF:Strong blow . B.O.B. in 8 mins.
FSI:Weak blow . 12".**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2155.42	107.18	Initial Hydro-static
2	47.98	106.72	Open To Flow (1)
30	54.86	107.90	Shut-in(1)
94	742.78	110.80	End Shut-in(1)
94	40.96	110.58	Open To Flow (2)
122	61.81	111.46	Shut-in(2)
186	657.34	113.45	End Shut-in(2)
188	2142.13	113.86	Final Hydro-static

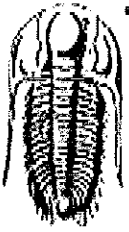
Recovery

Length (ft)	Description	Volume (bbl)
80.00	GOCM 7%g 7%o 86%w	0.39
0.00	355 ft.of GIP/Clean oil @ top of tool	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

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195
Attica KS .67009

Culver #A3

Job Ticket: 59731

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.12.09 @ 06:50:41

Tool Information

Drill Pipe:	Length: 4275.00 ft	Diameter: 3.80 inches	Volume: 59.97 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: 79000.00 lb
			<u>Total Volume: 60.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4403.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 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			4376.00	
Shut In Tool	5.00			4381.00	
Hydraulic tool	5.00			4386.00	
Jars	5.00			4391.00	
Safety Joint	3.00			4394.00	
Packer	4.00			4398.00	28.00 Bottom Of Top Packer
Packer	5.00			4403.00	
Stubb	1.00			4404.00	
Recorder	0.00	8352	Outside	4404.00	
Recorder	0.00	8370	Inside	4404.00	
Perforations	16.00			4420.00	
Bullnose	5.00			4425.00	22.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

R&B Oil & Gas Inc.

4-31s-8w Harper,KS

PO Box 195
Attica KS .67009

Culver #A3

Job Ticket: 59731

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.12.09 @ 06:50:41

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:

5500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	GOCM 7%g 7%o 86%m	0.393
0.00	355 ft.of GIP/Clean oil @ top of tool	0.000

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

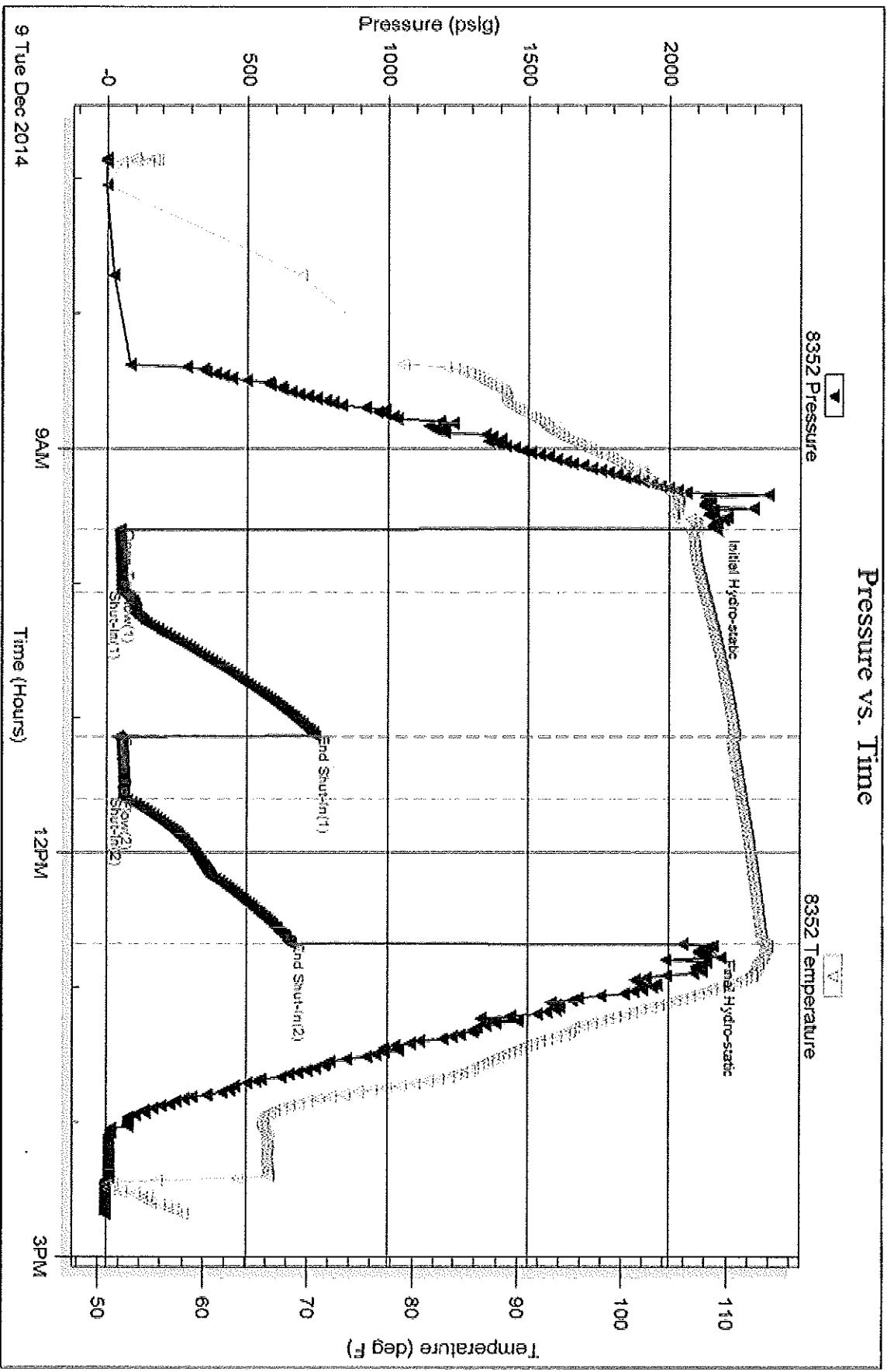
Recovery Comments:

Serial #: 8352

Outside R&B Oil & Gas Inc.

Oiliver #A3

DST Test Number: 2



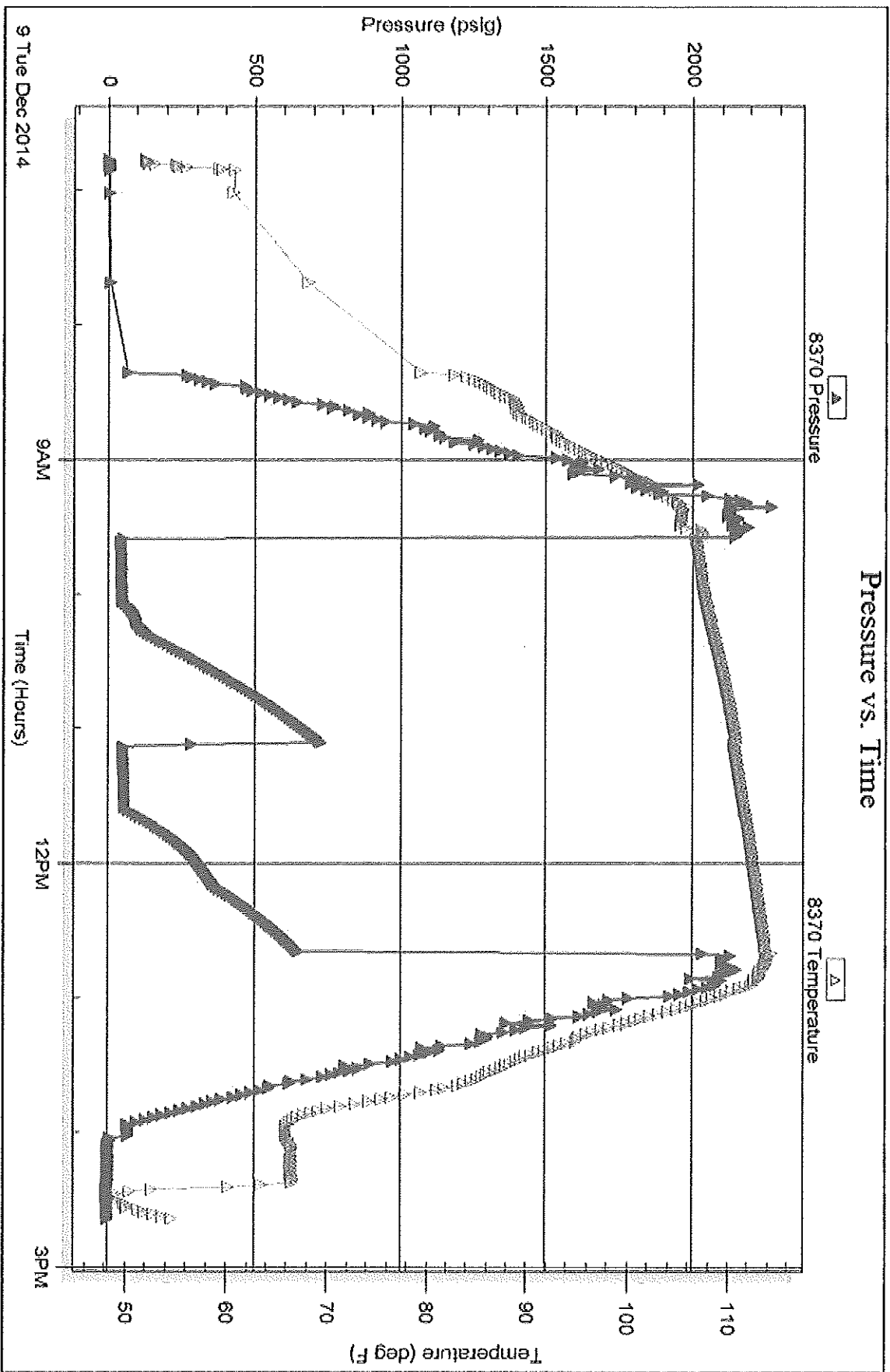
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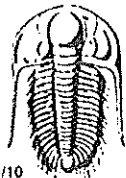
Inside

R&B Oil & Gas Inc.

Oliver #A3

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59730

Well Name & No. CULVER A-3 Test No. 1 Date 12-8-14
 Company REB OIL & GAS INC. Elevation 1613 KB 1663 GL
 Address 124 W. MAIN, P.O. Box 195, ATTECA KS. 67009
 Co. Rep / Geo. TIM PEIRCE Rig HARDY DILLON #1
 Location: Sec. 4 Twp. 31 S Rge. 8 W Co. KEOCHEE State Ks.

Interval Tested 4402-4420' Zone Tested MISS.
 Anchor Length 12' Drill Pipe Run 4274' Mud Wt. 9.2
 Top Packer Depth 4397' Drill Collars Run 120' Vis 46
 Bottom Packer Depth 4402' Wt. Pipe Run 0 WL 8.8cc
 Total Depth 4420' Chlorides 5500ppm System LCM 2H

Blow Description IF: Weak surging blow. (2" decreasing) ISI: No blow.
FF: No blow. Flushed tool 4 mins. into FFR. Fair surge.
No blow. FSI: No blow

Comments: 10 ft of hard fish on bit. Did tool 6-8 ft.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Crusty Mud.</u>				
	<u>Oil show @ top of tool</u>				
	<u>COMMENT: Charts</u>				
	<u>show tool plugged!</u>				

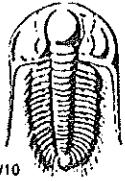
Rec Total 70 BHT _____ Gravity N/A API RW N/A @ _____ ° F Chlorides 5500 ppm
 (A) Initial Hydrostatic 2218 Test MISS RUN 1050 T-On Location 1616
 (B) First Initial Flow 213 Jars 250 T-Started 1743
 (C) First Final Flow 942 Safety Joint 75 T-Open 1938
 (D) Initial Shut-In 1258 Circ Sub _____ T-Pulled 2143
 (E) Second Initial Flow 1258 Hourly Standby _____ T-Out 0003
 (F) Second Final Flow 438 Mileage 1067 154.30 Comments _____
 (G) Final Shut-In 1045 Sampler _____
 (H) Final Hydrostatic 2221 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 12
 Final Shut-In 20

Sub Total 1539.30 MP/DST Disc't _____

Approved By Tim Peirce Our Representative Cooney

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59731

Well Name & No. CULVER A-3 Test No. 2 Date 12-9-14
 Company REB OIL & GAS INC. Elevation 1673 KB 1663 GL
 Address 124 N. MAIN, P.O. Box 195, ATTICA Ks. 67009
 Co. Rep / Geo. TIM PIERCE Rig HARDT DRILLING #1
 Location: Sec. 4 Twp. 31S Rge. 8W Co. KINGMAN State KS

Interval Tested 4403 - 4425' Zone Tested M.S.S.
 Anchor Length 22' Drill Pipe Run 4275' Mud Wt. 9.2
 Top Packer Depth 4498' Drill Collars Run 120' Vis 51
 Bottom Packer Depth 4403' Wt. Pipe Run 0 WL 8.8 cc
 Total Depth 4425' Chlorides 5500 ppm System LCM 2#

Blow Description IF: Fair to strong below, B.O.B. in 18 mins.
FSI: Weak below, 1/2" - 1 1/4"
FF: Strong below, B.O.B. in 8 mins. FSI: Weak below, 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>355</u>	<u>Cross in pipe</u>				
<u>80</u>	<u>GOLM</u>	<u>7</u>	<u>7</u>	<u>86</u>	
	<u>Clear oil @ Top of tool.</u>				

Rec Total 80 FluoroBHT 114° Gravity N/A API RW N.C. @ - °F Chlorides 5500 ppm

(A) Initial Hydrostatic 2155 Test 1250 T-On Location 0628
 (B) First Initial Flow 48 Jars 250 T-Started 04210
 (C) First Final Flow 53 Safety Joint 75 T-Open 0936
 (D) Initial Shut-In 743 Circ Sub _____ T-Pulled 1237
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 1441
 (F) Second Final Flow 62 Mileage 106.5 X2 328.60 Comments _____
 (G) Final Shut-In 657 Sampler _____ loaded tools 12/10
 (H) Final Hydrostatic 2142 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 1903.60
 Day Standby _____ Total _____
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Approved By Tim Pierce Our Representative Gary Burdette

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 note shall be paid for at cost by the party for whom the test is made.