



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1233934
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: _____



1233934

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY R & B Oil and Gas, Inc.
 LEASE Ricke 'B' #1
 FIELD Wildcat
 LOCATION SE SW
 SEC 33 TWP 31S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 8-22-2014 COMP 8-30-2014
 RTD 4470 LTD 4472
 MUD UP 2688 TYPE MUD Chemical
 SAMPLES SAVED FROM 2600 TO RTD
 DRILLING TIME KEPT FROM 2600 TO RTD
 SAMPLES EXAMINED FROM 2600 TO RTD
 GEOLOGICAL SUPERVISION FROM 2513 to RTD
 GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1579'
 DF _____
 GL 1569'
 Measurements Are All
 From Kelly Bushing

CASING

CONDUCTOR _____
 SURFACE 8-5/8" at 252'
 PRODUCTION None

ELECTRICAL SURVEYS

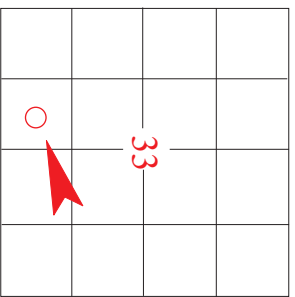
Pioneer Energy Svcs.
DIL / DUCP

FORMATION TOPS

ELECTRIC LOG

SAMPLE

Onaga Sh.	2614 (-1035)	2612 (-1033)
Heebner Sh.	3584 (-2005)	3583 (-2004)
Lansing	3760 (-2181)	3758 (-2179)
Stark Sh.	4158 (-2579)	4157 (-2578)
Cherokee Sh.	4464 (-2785)	4466 (-2787)
Mississippi	4490 (-2811)	4483 (-2804)


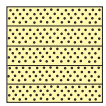
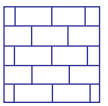
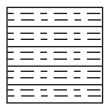

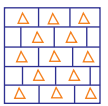

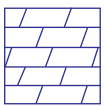



API # 15-007-24,201

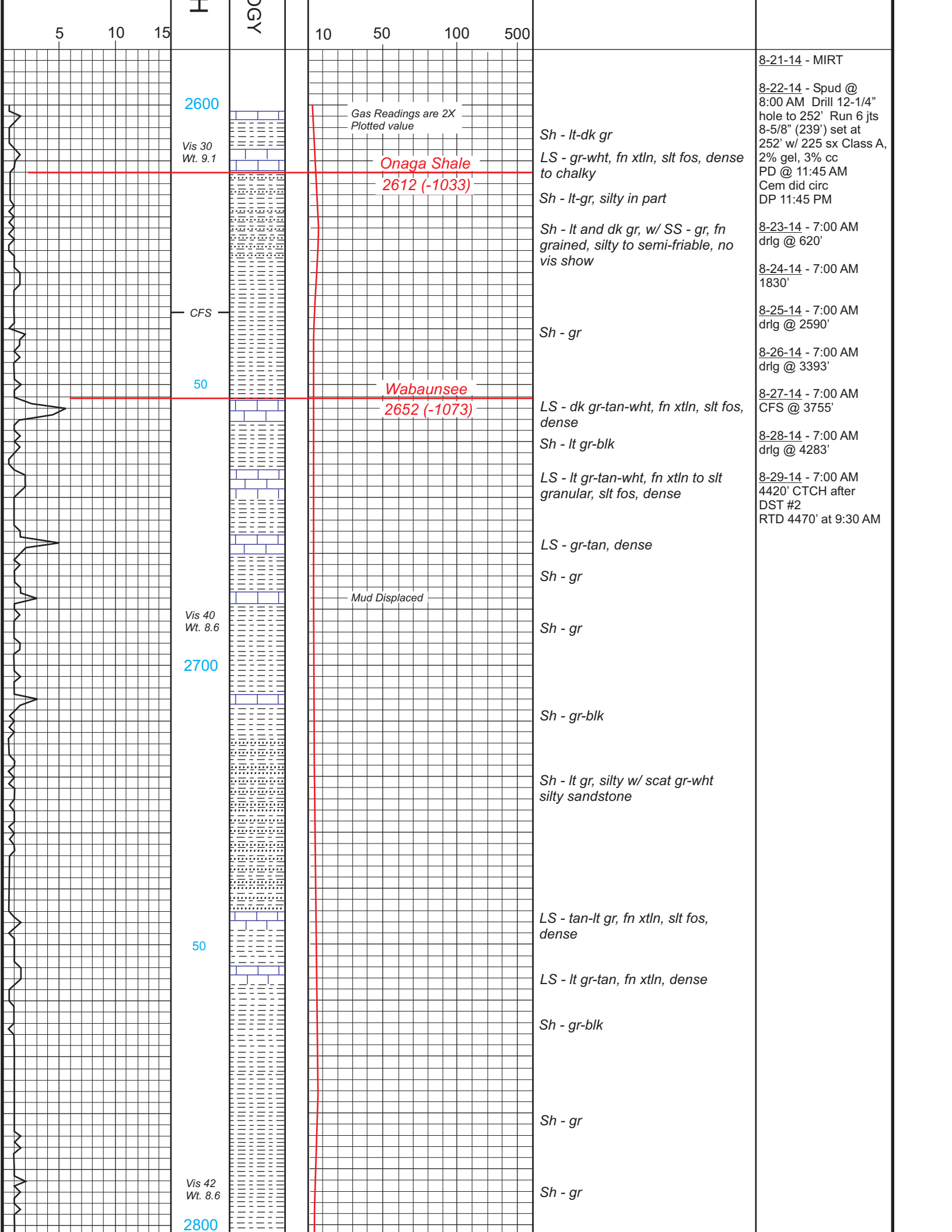
REMARKS DST's 2 covered both the Cherokee sand and Mississippi, measureable gas and water were recovered. Logs were run and indicated possible gas production from the Cherokee and water from the Mississippi. DST 3 was then run in an attempt to isolate the Cherokee sand by itself, recovery on the test was similar to DST #2. The decision was made to plug the Ricke 'B' #1 as a dry hole on 8-30-2014.

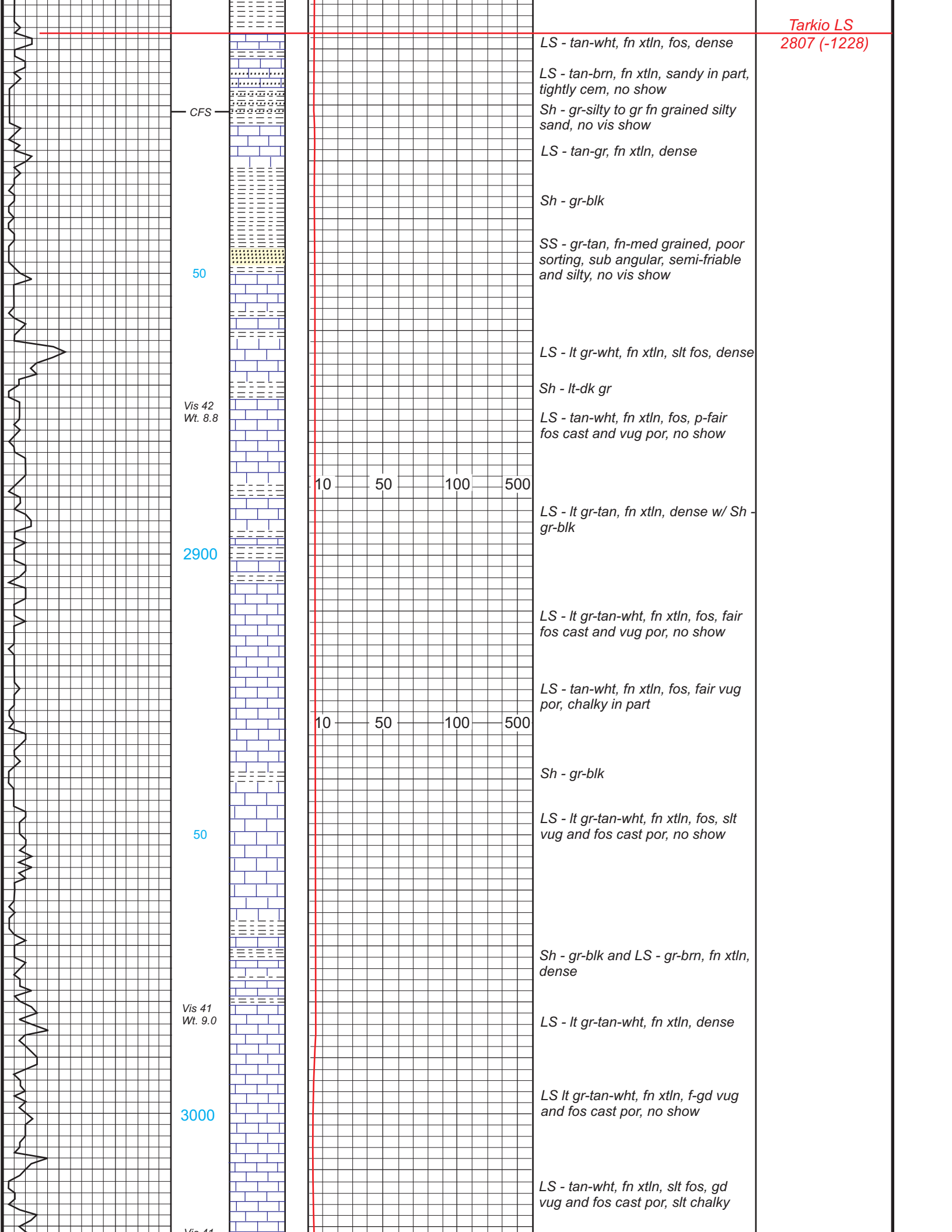
Timothy G. Pierce

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
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CFS

50

Vis 42
Wt. 8.8

2900

50

Vis 41
Wt. 9.0

3000

Vis 44

10 50 100 500

10 50 100 500

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

LS - tan-brn, fn xtln, sandy in part, tightly cem, no show

Sh - gr-silty to gr fn grained silty sand, no vis show

LS - tan-gr, fn xtln, dense

Sh - gr-blk

SS - gr-tan, fn-med grained, poor sorting, sub angular, semi-friable and silty, no vis show

LS - lt gr-wht, fn xtln, slt fos, dense

Sh - lt-dk gr

LS - tan-wht, fn xtln, fos, p-fair fos cast and vug por, no show

LS - lt gr-tan, fn xtln, dense w/ Sh - gr-blk

LS - lt gr-tan-wht, fn xtln, fos, fair fos cast and vug por, no show

LS - tan-wht, fn xtln, fos, fair vug por, chalky in part

Sh - gr-blk

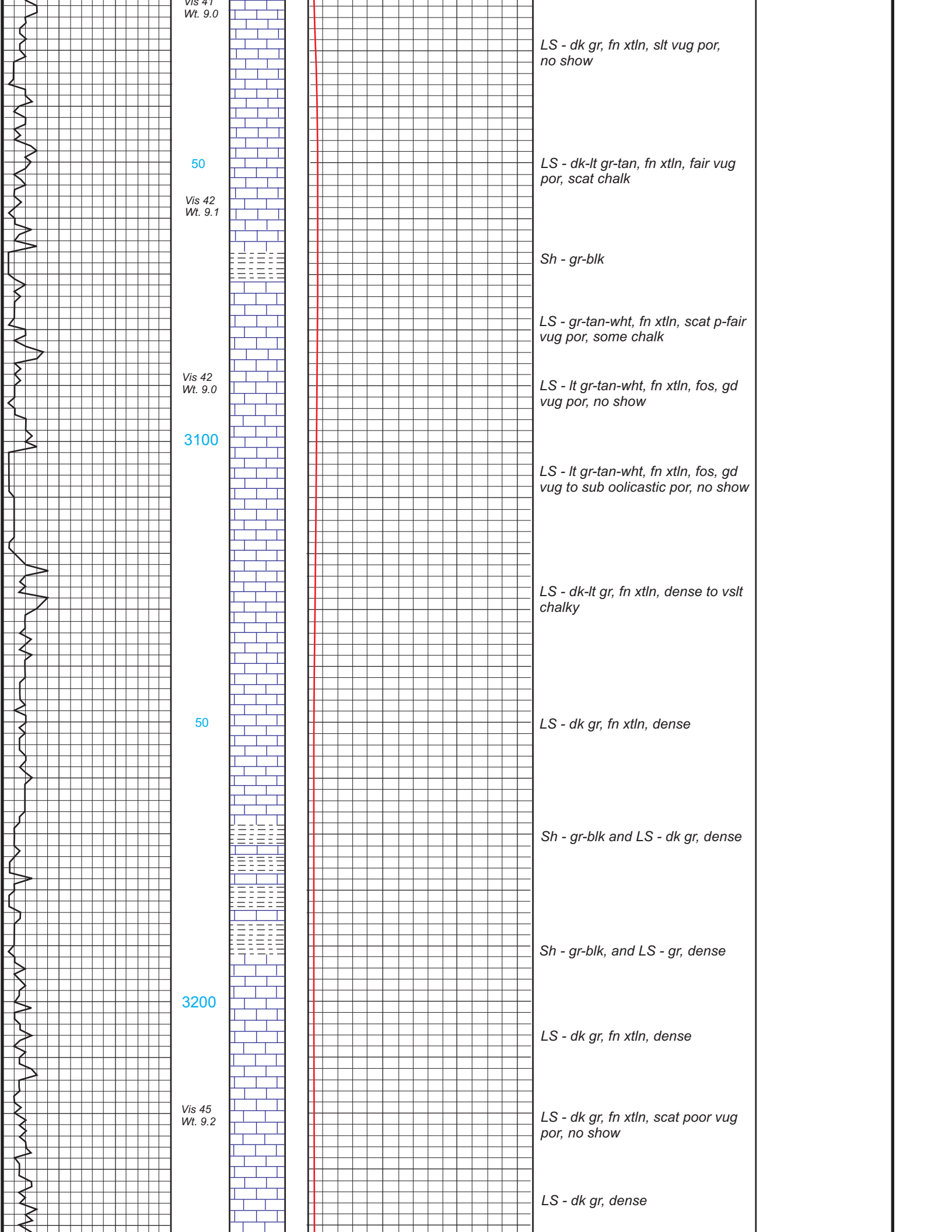
LS - lt gr-tan-wht, fn xtln, fos, slt vug and fos cast por, no show

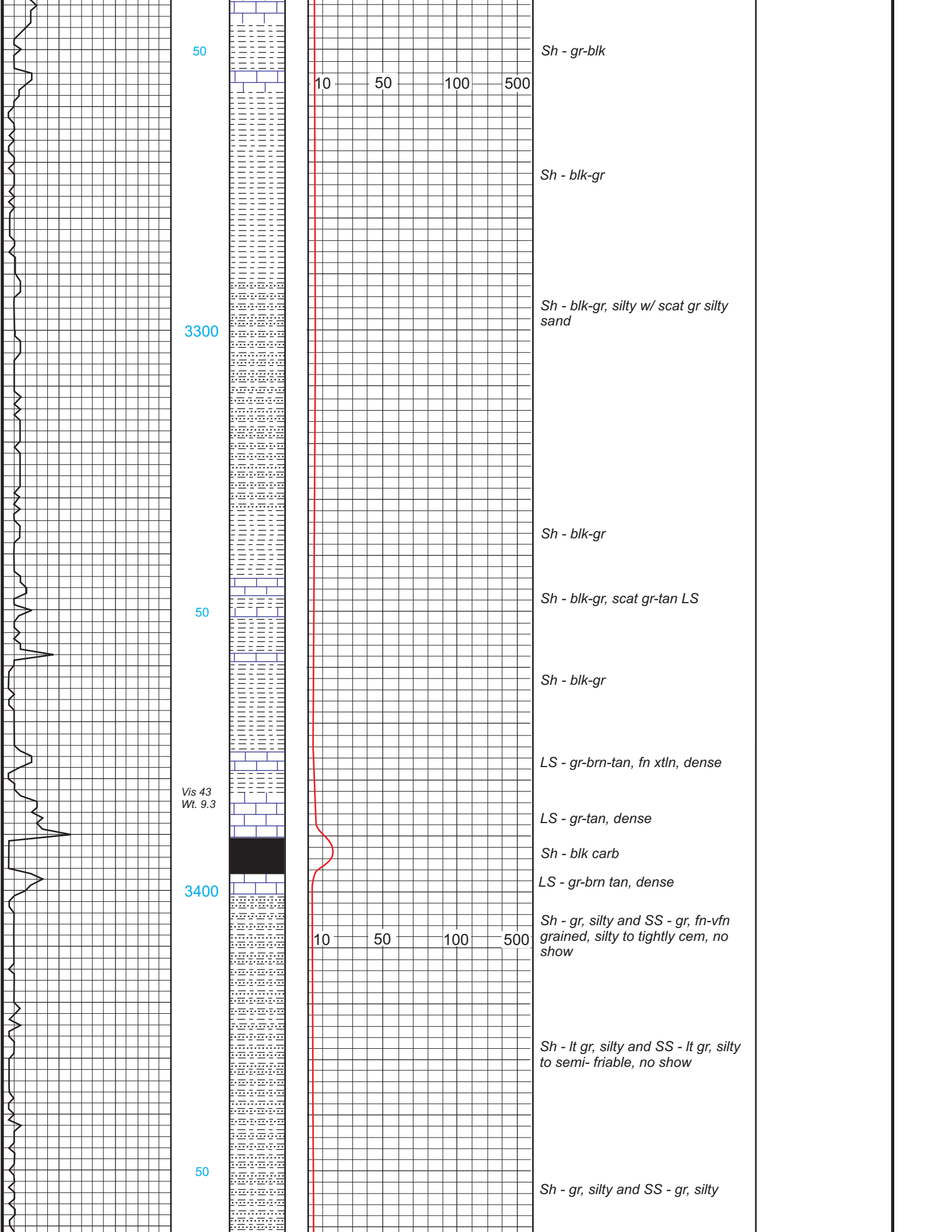
Sh - gr-blk and LS - gr-brn, fn xtln, dense

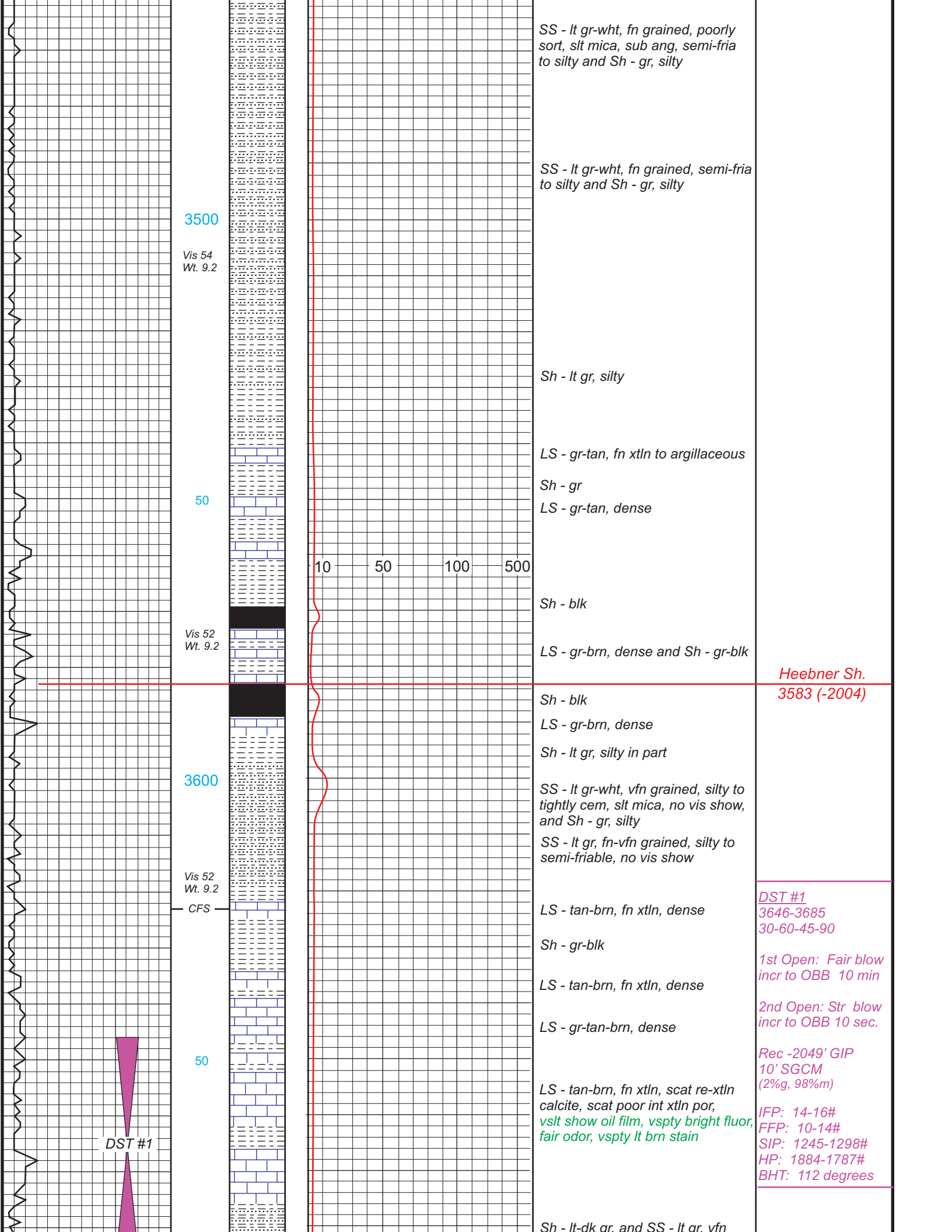
LS - lt gr-tan-wht, fn xtln, dense

LS lt gr-tan-wht, fn xtln, f-gd vug and fos cast por, no show

LS - tan-wht, fn xtln, slt fos, gd vug and fos cast por, slt chalky







SS - lt gr-wht, fn grained, poorly sort, slt mica, sub ang, semi-fria to silty and Sh - gr, silty

SS - lt gr-wht, fn grained, semi-fria to silty and Sh - gr, silty

3500

Vis 54
Wt. 9.2

Sh - lt gr, silty

LS - gr-tan, fn xtln to argillaceous

50

Sh - gr

LS - gr-tan, dense

10 50 100 500

Sh - blk

Vis 52
Wt. 9.2

LS - gr-brn, dense and Sh - gr-blk

Heebner Sh.
3583 (-2004)

Sh - blk

LS - gr-brn, dense

Sh - lt gr, silty in part

3600

SS - lt gr-wht, vfn grained, silty to tightly cem, slt mica, no vis show, and Sh - gr, silty

SS - lt gr, fn-vfn grained, silty to semi-friable, no vis show

Vis 52
Wt. 9.2

LS - tan-brn, fn xtln, dense

DST #1
3646-3685
30-60-45-90

Sh - gr-blk

1st Open: Fair blow
incr to OBB 10 min

LS - tan-brn, fn xtln, dense

2nd Open: Str blow
incr to OBB 10 sec.

LS - gr-tan-brn, dense

50

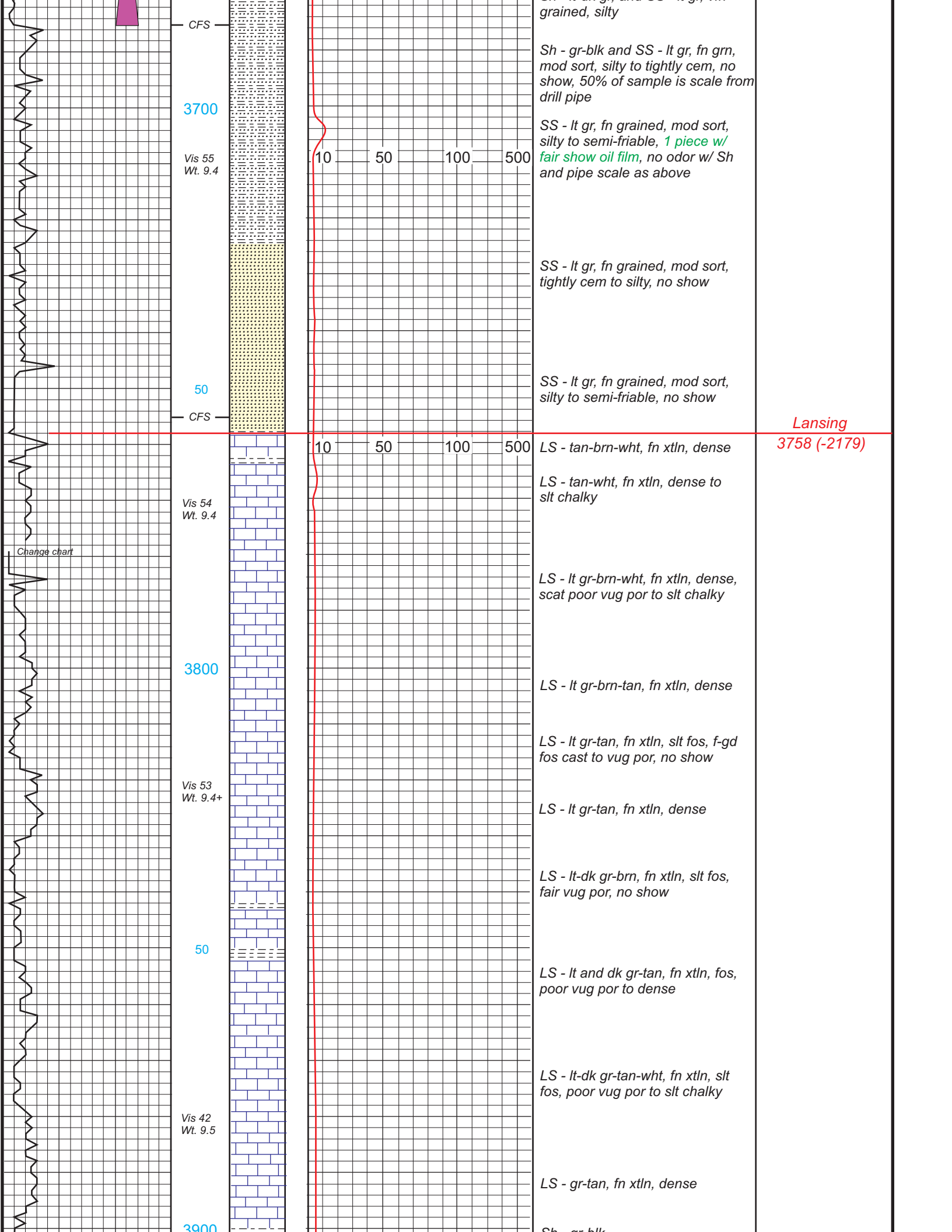
Rec -2049' GIP
10' SGCM
(2%g, 98% m)

LS - tan-brn, fn xtln, scat re-xtln calcite, scat poor int xtln por, vslt show oil film, vspty bright fluor, fair odor, vspty lt brn stain

IFP: 14-16#
FFP: 10-14#
SIP: 1245-1298#
HP: 1884-1787#
BHT: 112 degrees

DST #1

Sh - lt-dk ar. and SS - lt ar. vfn



CFS

3700

Vis 55
Wt. 9.4

10 50 100 500

grained, silty
Sh - gr-blk and SS - lt gr, fn grn, mod sort, silty to tightly cem, no show, 50% of sample is scale from drill pipe

SS - lt gr, fn grained, mod sort, silty to semi-friable, 1 piece w/ fair show oil film, no odor w/ Sh and pipe scale as above

SS - lt gr, fn grained, mod sort, tightly cem to silty, no show

50

CFS

SS - lt gr, fn grained, mod sort, silty to semi-friable, no show

Lansing
3758 (-2179)

10 50 100 500

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

Vis 54
Wt. 9.4

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

Change chart

LS - lt gr-brn-wht, fn xtln, dense, scat poor vug por to slt chalky

3800

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

Vis 53
Wt. 9.4+

LS - lt gr-tan, fn xtln, slt fos, f-gd fos cast to vug por, no show

LS - lt gr-tan, fn xtln, dense

50

LS - lt-dk gr-brn, fn xtln, slt fos, fair vug por, no show

LS - lt and dk gr-tan, fn xtln, fos, poor vug por to dense

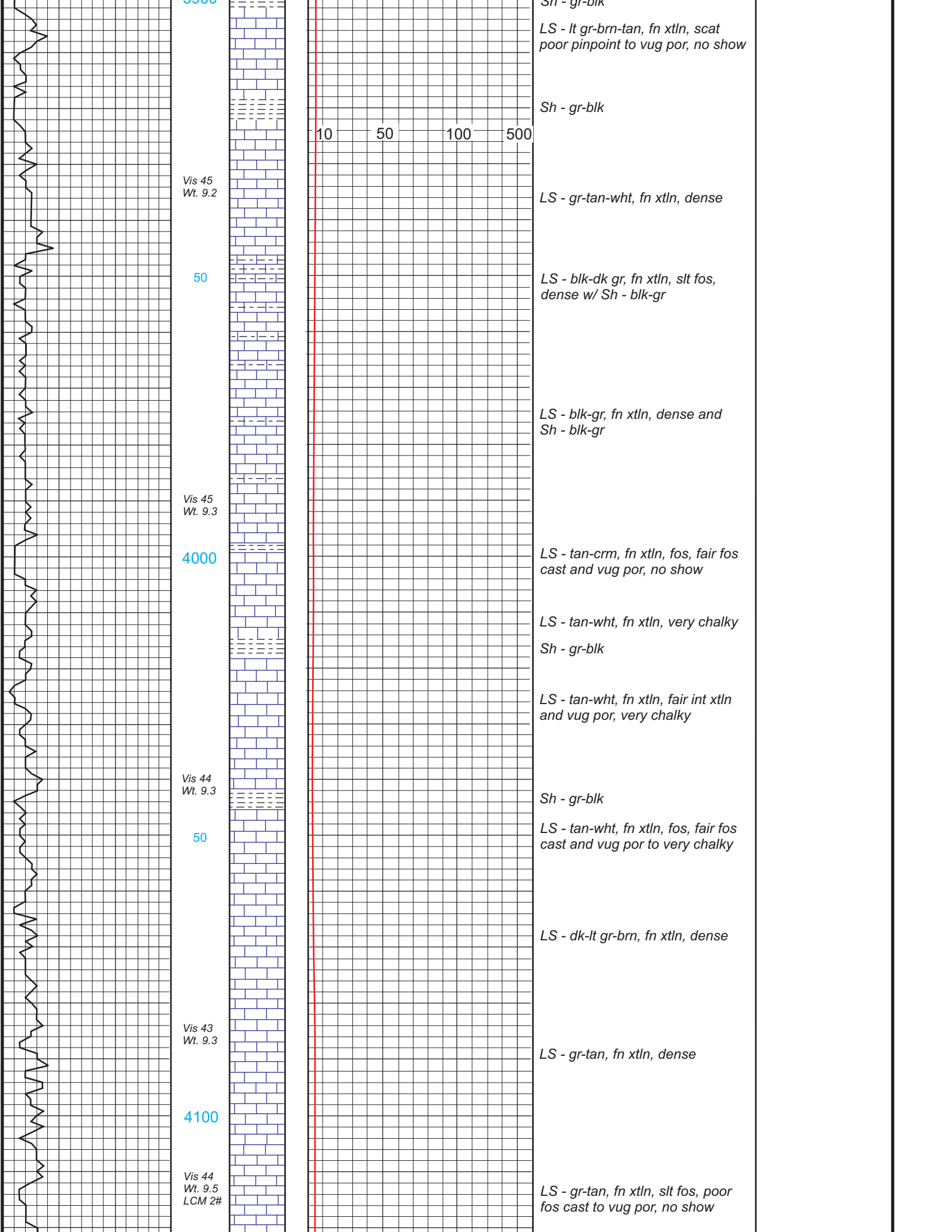
Vis 42
Wt. 9.5

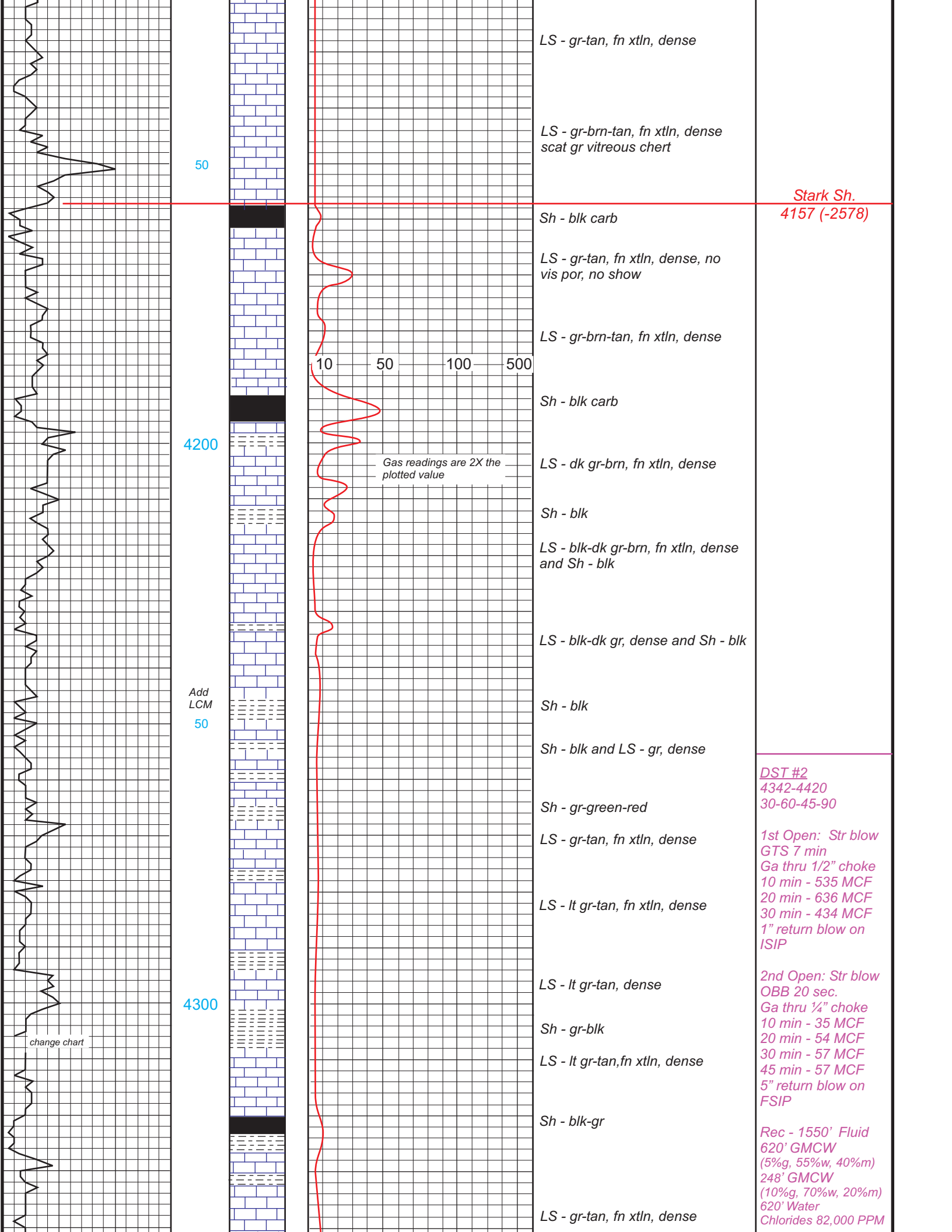
LS - lt-dk gr-tan-wht, fn xtln, slt fos, poor vug por to slt chalky

LS - gr-tan, fn xtln, dense

3900

Sh - gr-blk





LS - gr-tan, fn xtln, dense

LS - gr-brn-tan, fn xtln, dense
scat gr vitreous chert

Stark Sh.
4157 (-2578)

Sh - blk carb

LS - gr-tan, fn xtln, dense, no
vis por, no show

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

10 50 100 500

Sh - blk carb

Gas readings are 2X the
plotted value

LS - dk gr-brn, fn xtln, dense

Sh - blk

LS - blk-dk gr-brn, fn xtln, dense
and Sh - blk

LS - blk-dk gr, dense and Sh - blk

Sh - blk

Sh - blk and LS - gr, dense

DST #2
4342-4420
30-60-45-90

Sh - gr-green-red

1st Open: Str blow
GTS 7 min
Ga thru 1/2" choke
10 min - 535 MCF
20 min - 636 MCF
30 min - 434 MCF
1" return blow on
ISIP

LS - gr-tan, fn xtln, dense

LS - lt gr-tan, fn xtln, dense

2nd Open: Str blow
OBB 20 sec.
Ga thru 1/4" choke
10 min - 35 MCF
20 min - 54 MCF
30 min - 57 MCF
45 min - 57 MCF
5" return blow on
FSIP

LS - lt gr-tan, dense

Sh - gr-blk

LS - lt gr-tan,fn xtln, dense

Sh - blk-gr

Rec - 1550' Fluid
620' GMCW
(5%g, 55%w, 40%*m*)
248' GMCW
(10%g, 70%w, 20%*m*)
620' Water
Chlorides 82,000 PPM

LS - gr-tan, fn xtln, dense

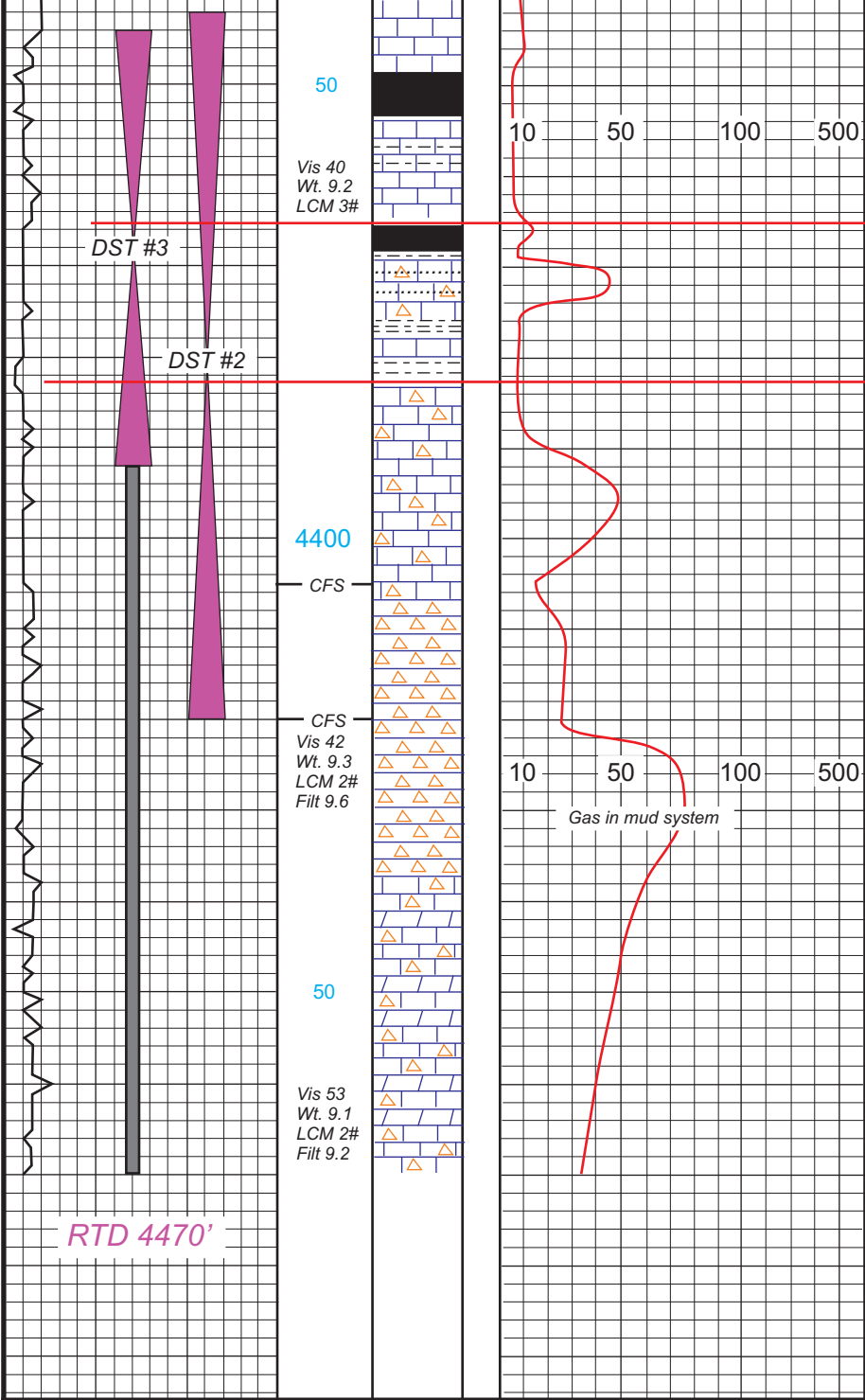
50

4200

Add
LCM
50

4300

change chart



Sh - blk carb

LS - gr-tan, dense

Sh - blk carb
LS - gr-brn, fn xtlm to sandy, scat gr vitr chert, *scat show gilsonite, slt show free oil and gas, faint odor, brn-blk stain, spty bright fluor*

LS - tan, fn xtlm, cherty and chert tan-wht, fresh to slt weath, *scat slt show gilsonite, scat slt show gas and oil film, spty blk stain, faint odor, abundant gr shale*

Chert - wht, fresh to slt weath, *scat show gilsonite, scat vslt show free oil and gas, faint odor, spty brn-blk stain, spty bright fluor*

Sh - red-gr, (cavings?) w/ scat wht vitreous chert, slt weathered edges, scat blk edge stain

Sh - red-gr (cavings?) w/ scat LS - lt gr-wht, fn xtlm to granular, and fresh wht chert

LS/Dolo - lt gr-wht, fn xtlm to gran, dense and slt cherty, scat wht fresh chert, occasional edge stain

IFP: 365-540#
FFP: 458-698#
SIP: 714-718#
HP: 2257-2070#
BHT: 124 degrees

Cherokee Sh.
4466 (-2787)

Mississippi
4483 (-2804)

DST #3
Tailpipe Straddle

4346-4394 (log)
4344-4392
30-60-30-60

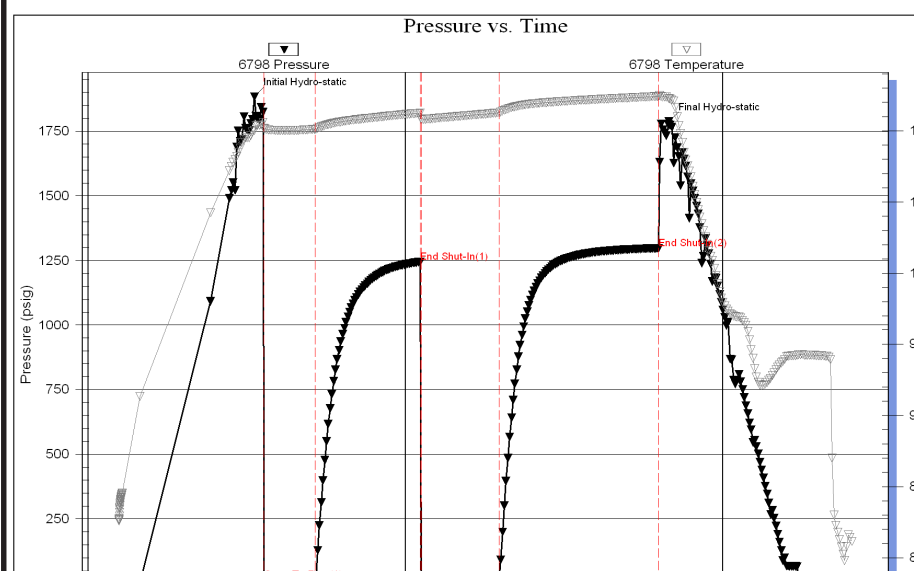
1st Open: Str blow
GTS 12 min
Ga thru 1/4" choke
15 min - 181 MCF
20 min - 244 MCF
30 min - 308 MCF
3.5" return blow on ISIP

2nd Open: Str blow
OBB 10 sec.
Ga thru 1/4" choke
10 min - 98 MCF
20 min - 130 MCF
30 min - 129 MCF

Rec - 1240' Fluid
516' GWCM
(20%g, 20%w, 60%*m*)
186' GMCW
(6%g, 80%w, 14%*m*)
558' Water
Chlorides 72,000 PPM

IFP: 332-582#
FFP: 403-632#
SIP: 717-711#
HP: 2257-2070#
BHT: 123 degrees

Serial #: 6798 Inside R & B Oil & Gas Ricke B-1 DST Test Number: 1



DST #1
3646-3685
30-60-45-90

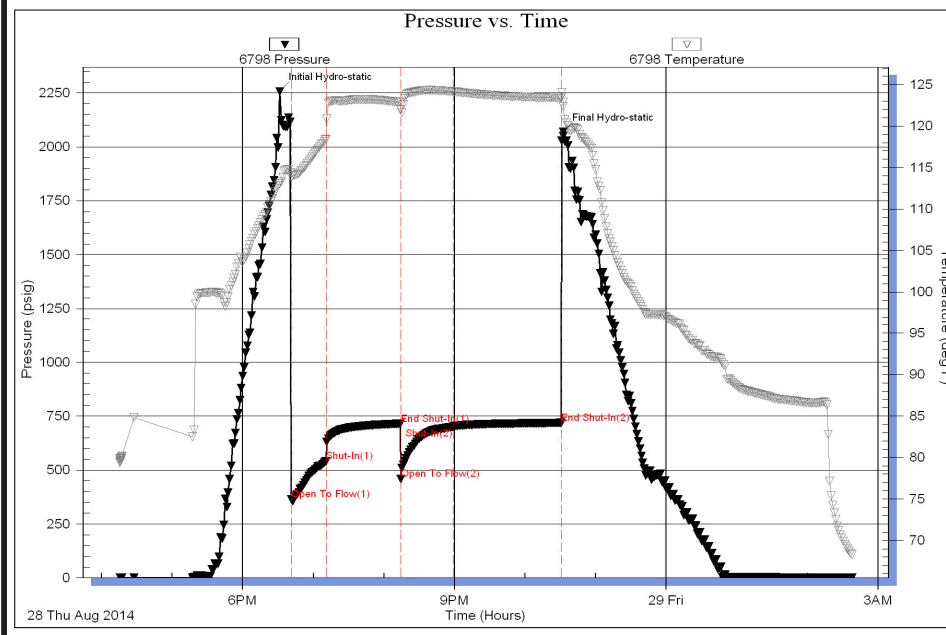
1st Open: Fair blow
incr to OBB 10 min

2nd Open: Str blow
incr to OBB 10 sec.

Rec -2049' GIP
10' SGCM
(2%g, 98%*m*)

IFP: 14-16#
FFP: 10-14#
SIP: 1245-1298#
HP: 1884-1787#
BHT: 118 degrees

Serial #: 6798 Inside R & B Oil & Gas Ricke B-1 DST Test Number: 2



DST #2
4342-4420
30-60-45-90

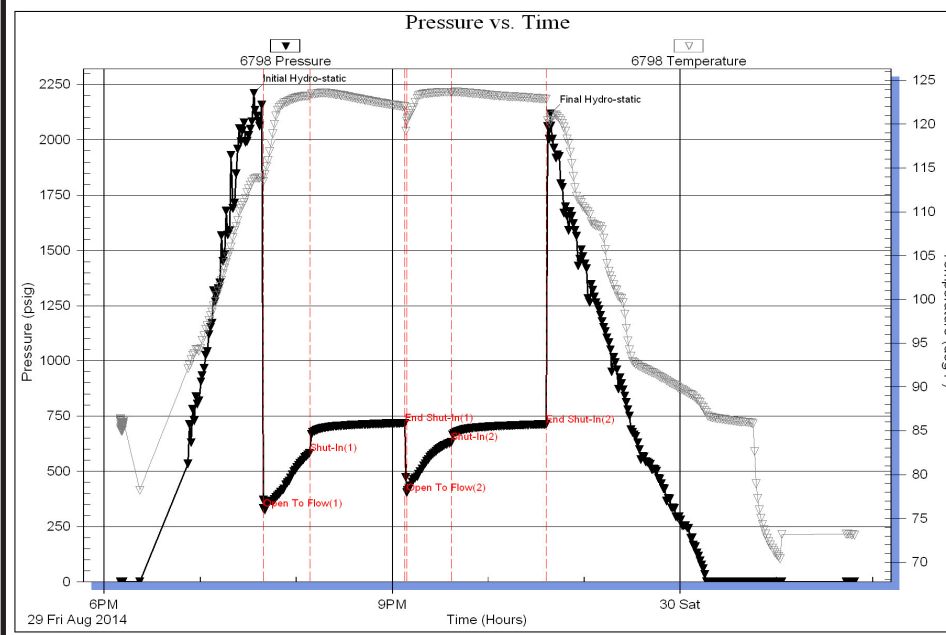
1st Open: Str blow
GTS 7 min
Ga thru 1/2" choke
10 min - 535 MCF
20 min - 636 MCF
30 min - 434 MCF
1" return blow on ISIP

2nd Open: Str blow
OBB 20 sec.
Ga thru 1/4" choke
10 min - 35 MCF
20 min - 54 MCF
30 min - 57 MCF
45 min - 57 MCF
5" return blow on FSIP

Rec - 1550' Fluid
620' GMCW
(5%g, 55%w, 40%m)
248' GMCW
(10%g, 70%w, 20%m)
620' Water
Chlorides 82,000 PPM

IFP: 365-540#
FFP: 458-698#
SIP: 714-718#
HP: 2257-2070#
BHT: 124 degrees

Serial #: 6798 Inside R & B Oil & Gas Ricke B-1 DST Test Number: 3



DST #3
Tailpipe Straddle

4346-4394 (log)
4344-4392
30-60-30-60

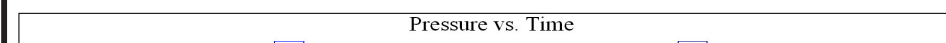
1st Open: Str blow
GTS 12 min
Ga thru 1/4" choke
15 min - 181 MCF
20 min - 244 MCF
30 min - 308 MCF
3.5" return blow on ISIP

2nd Open: Str blow
OBB 10 sec.
Ga thru 1/4" choke
10 min - 98 MCF
20 min - 130 MCF
30 min - 129 MCF

Rec - 1240' Fluid
516' GWCM
(20%g, 20%w, 60%m)
186' GMCW
(6%g, 80%w, 14%m)
558' Water
Chlorides 72,000 PPM

IFP: 332-582#
FFP: 403-632#
SIP: 717-711#
HP: 2257-2070#
BHT: 123 degrees

Serial #: 8358 Below (Str) Oil & Gas Ricke B-1 DST Test Number: 3

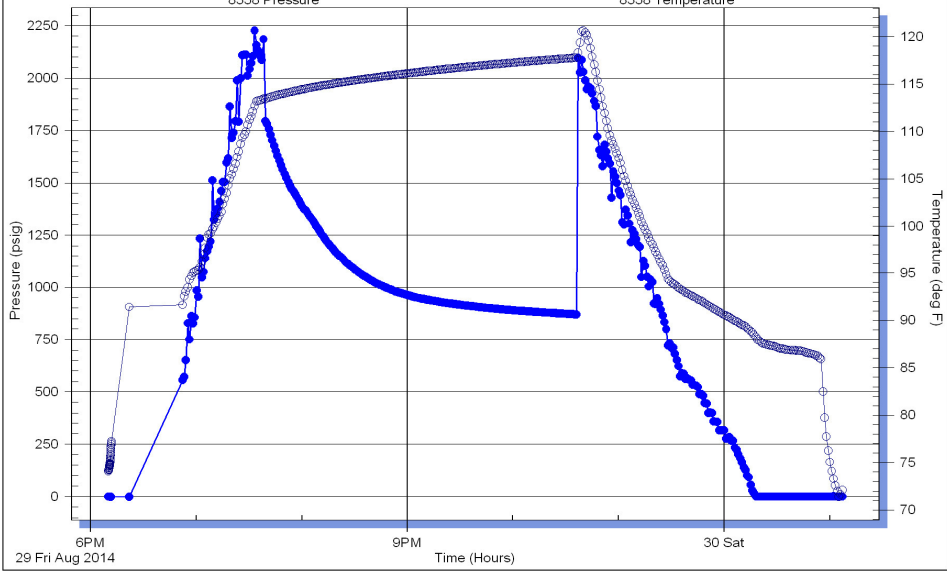


DST #3
Tailpipe Straddle

4346-4394 (log)

8358 Pressure

8358 Temperature



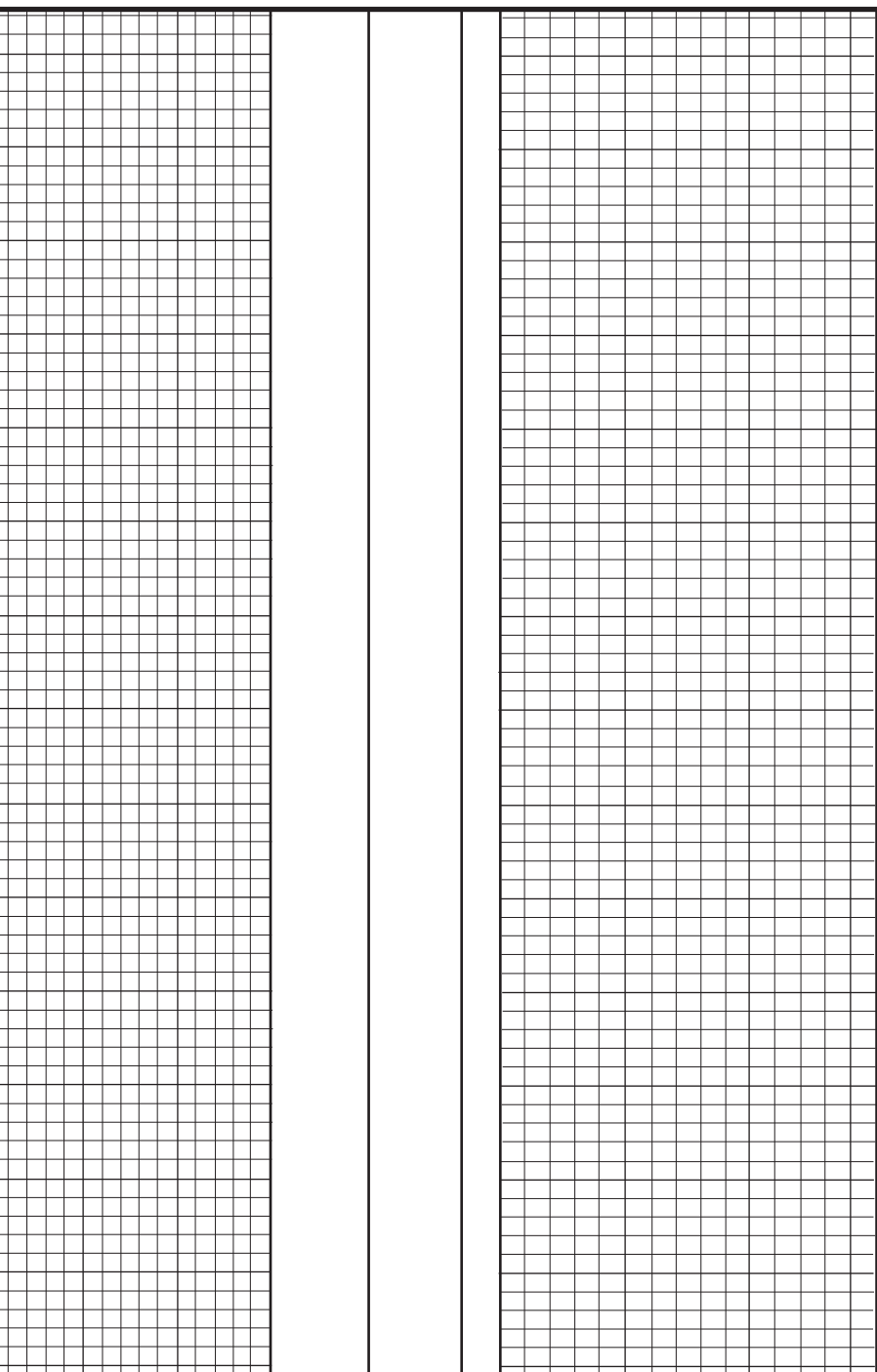
4340-4394 (10g)
4344-4392
30-60-30-60

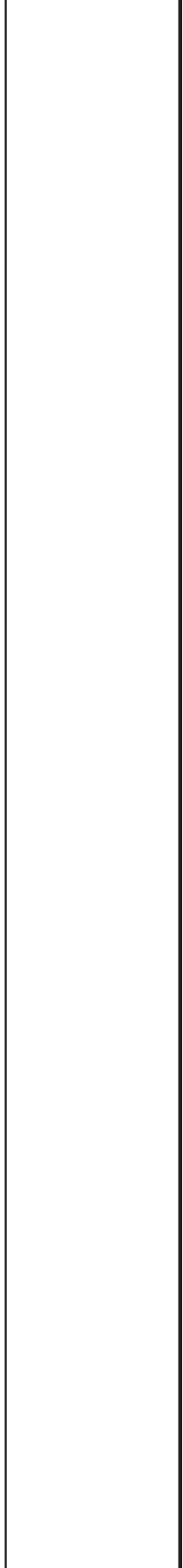
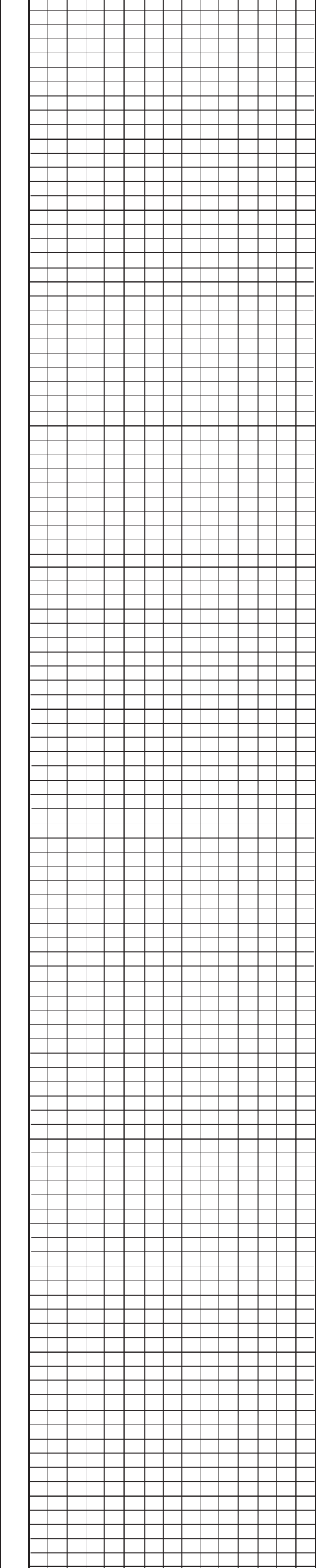
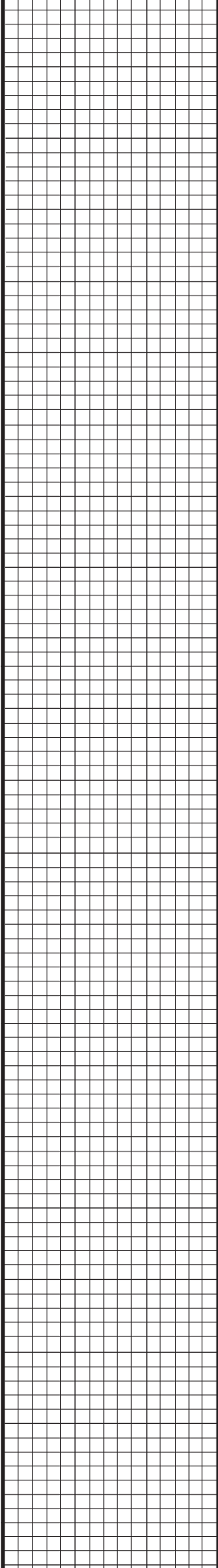
1st Open: Str blow
GTS 12 min
Ga thru 1/4" choke
15 min - 181 MCF
20 min - 244 MCF
30 min - 308 MCF
3.5" return blow on
ISIP

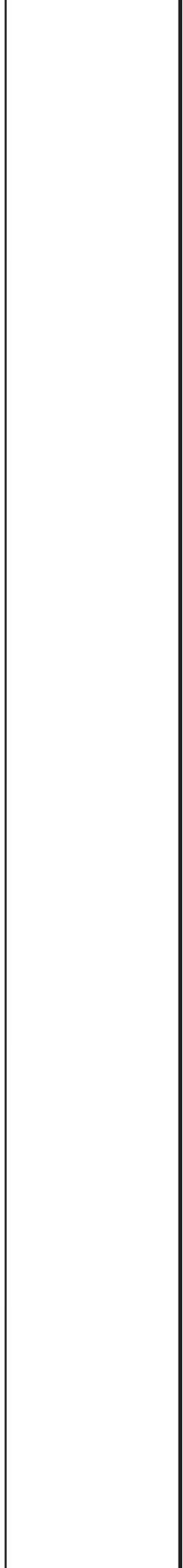
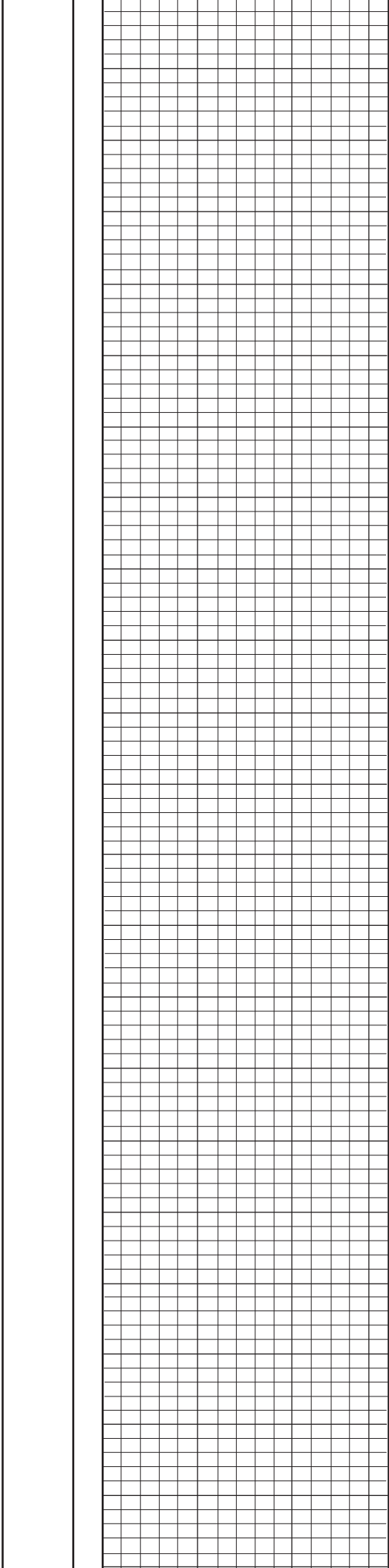
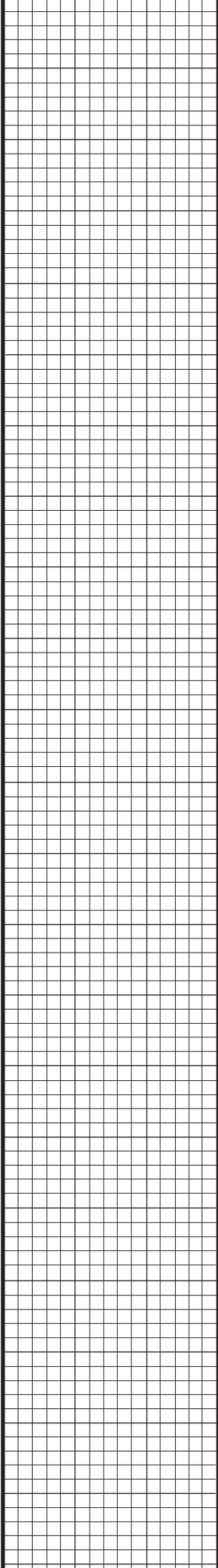
2nd Open: Str blow
OBB 10 sec.
Ga thru 1/4" choke
10 min - 98 MCF
20 min - 130 MCF
30 min - 129 MCF

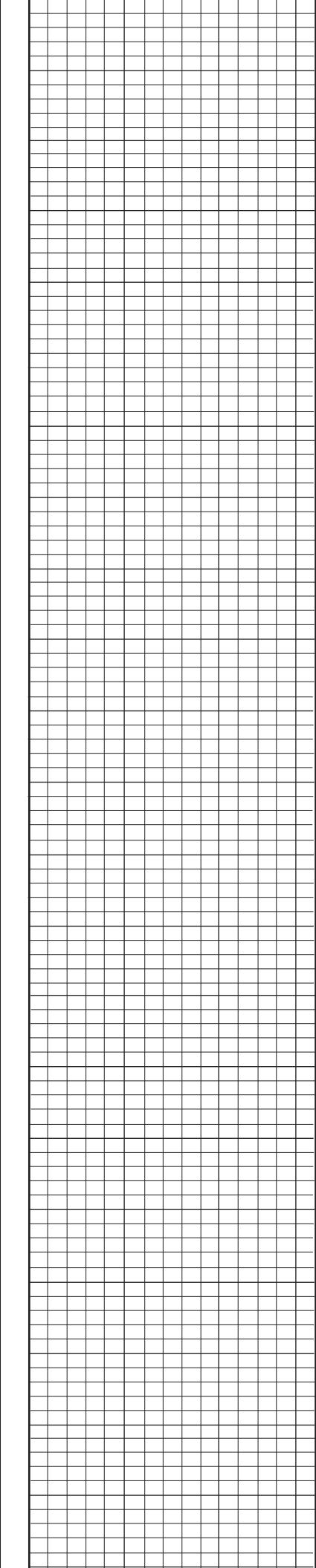
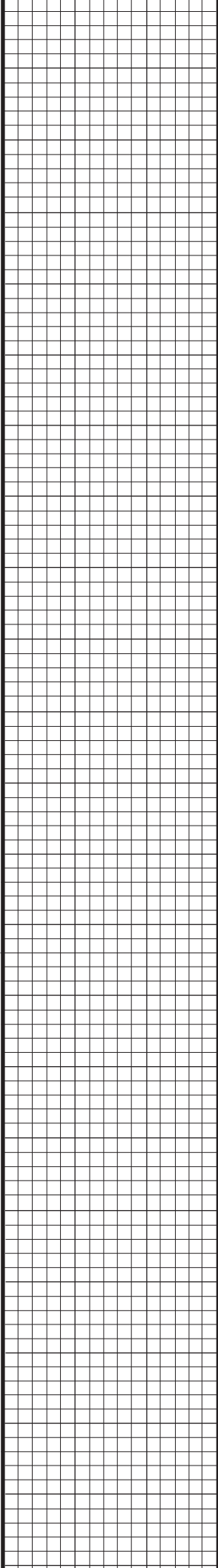
Rec - 1240' Fluid
516' GWCM
(20%g, 20%w, 60%m)
186' GMCW
(6%g, 80%w, 14%m)
558' Water
Chlorides 72,000 PPM

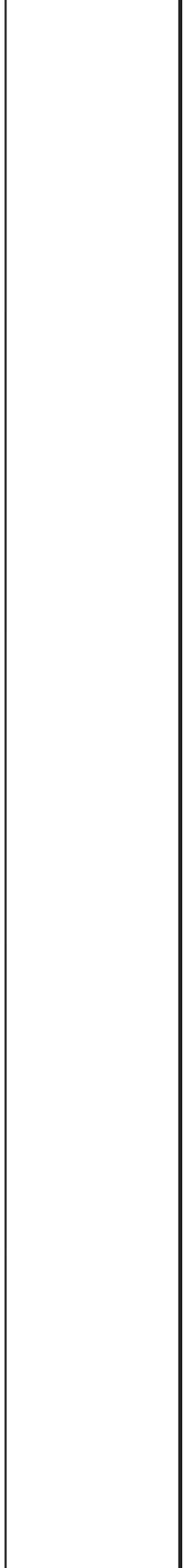
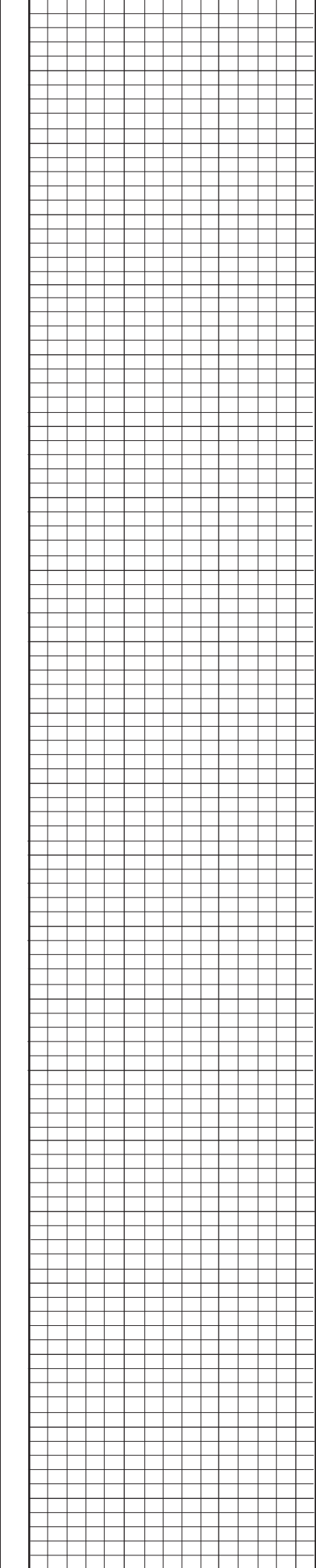
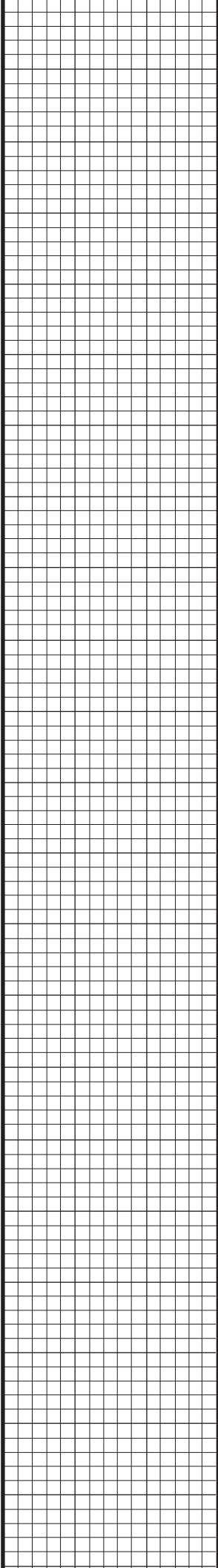
IFP: 332-582#
FFP: 403-632#
SIP: 717-711#
HP: 2257-2070#
BHT: 123 degrees

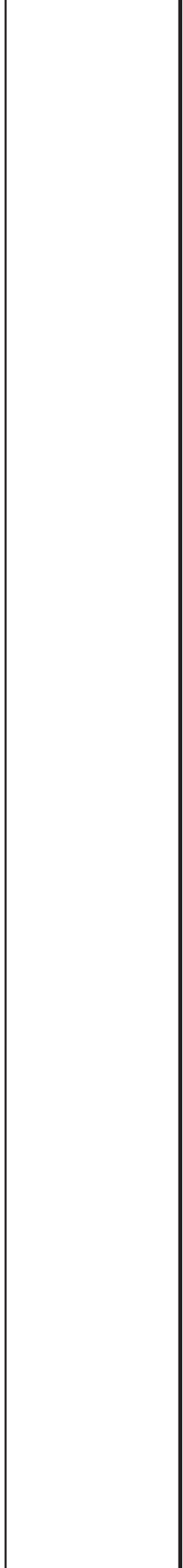
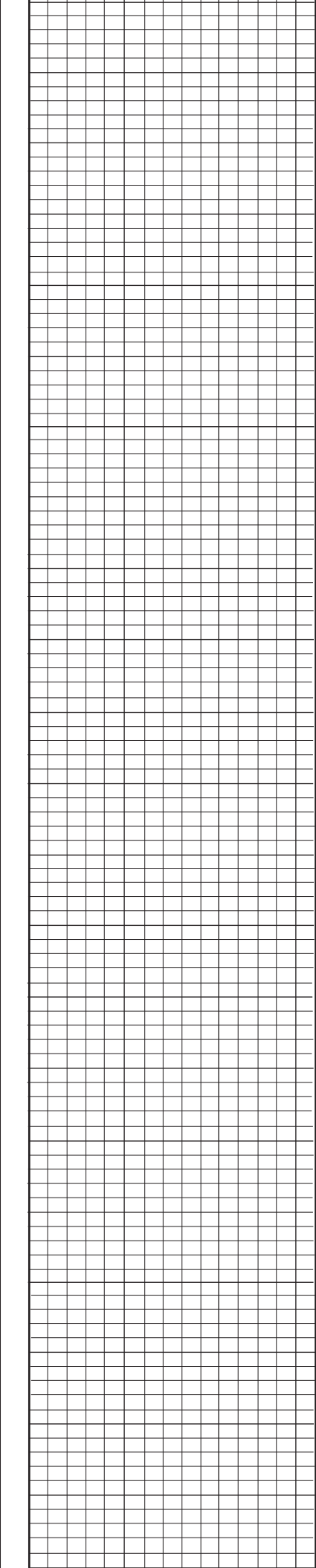
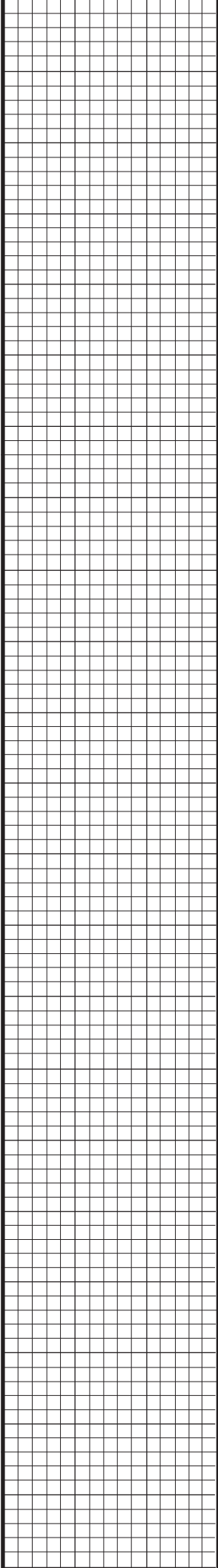


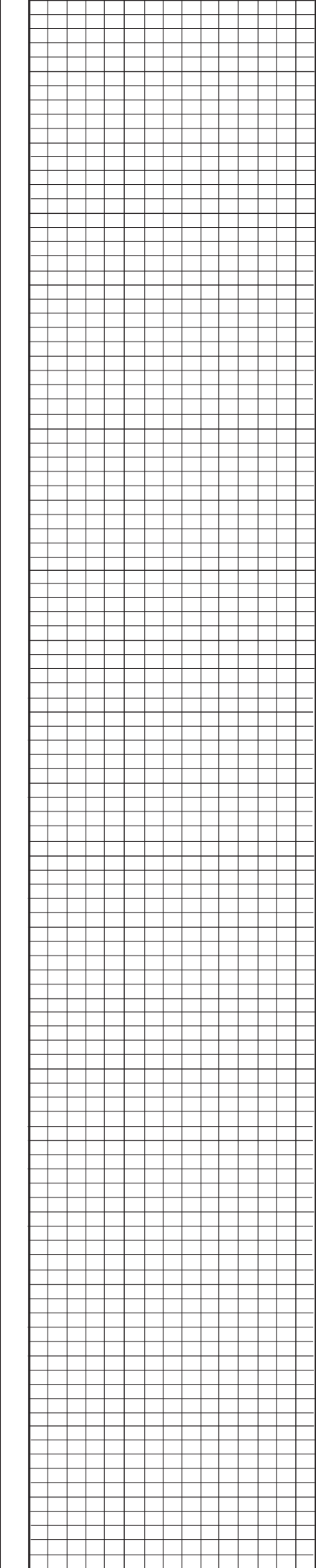
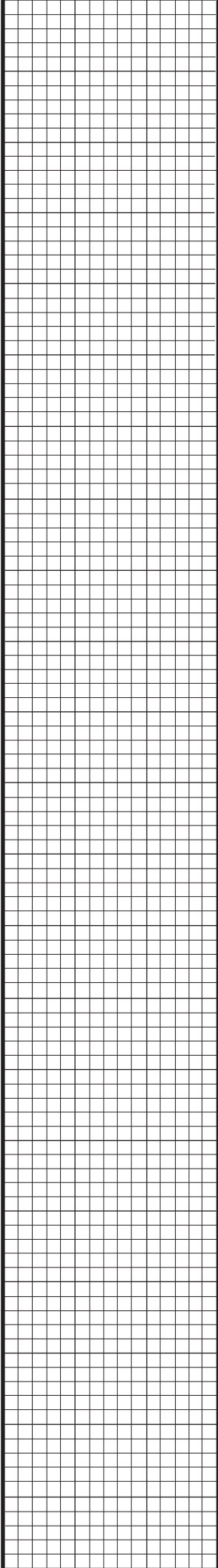


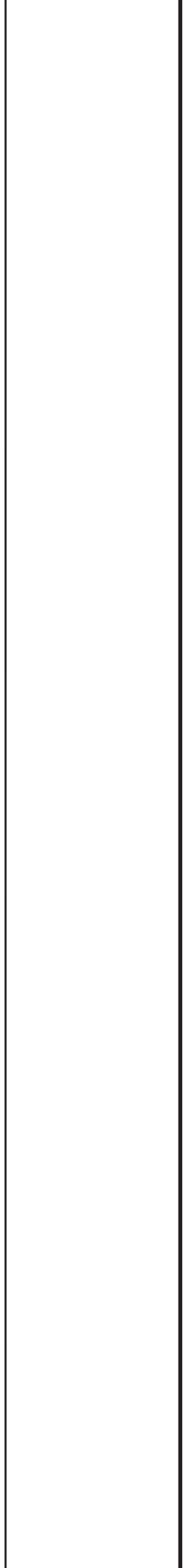
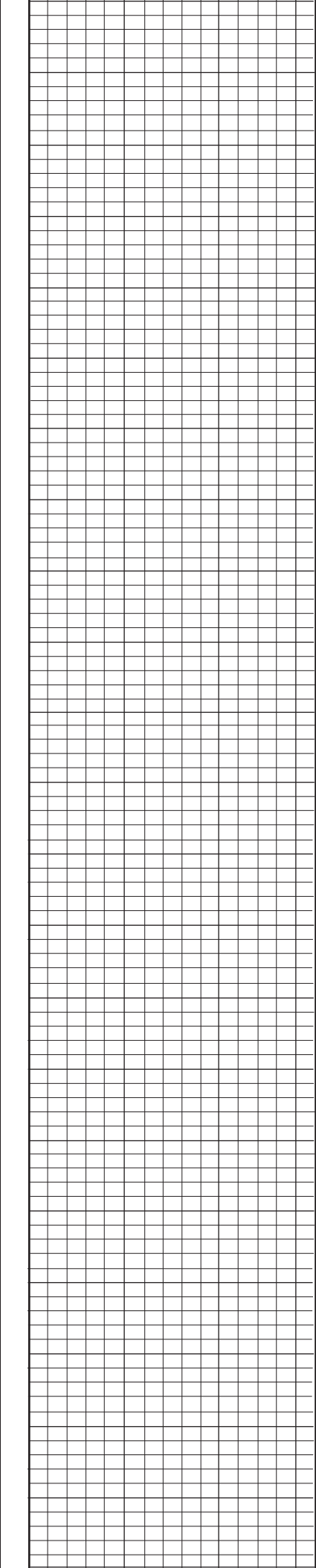
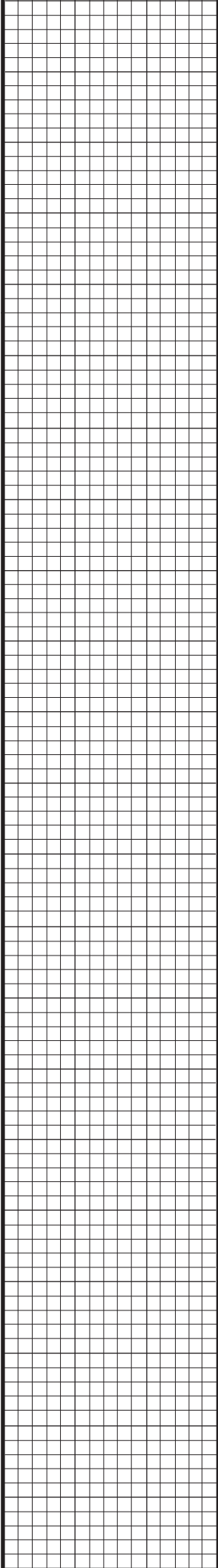


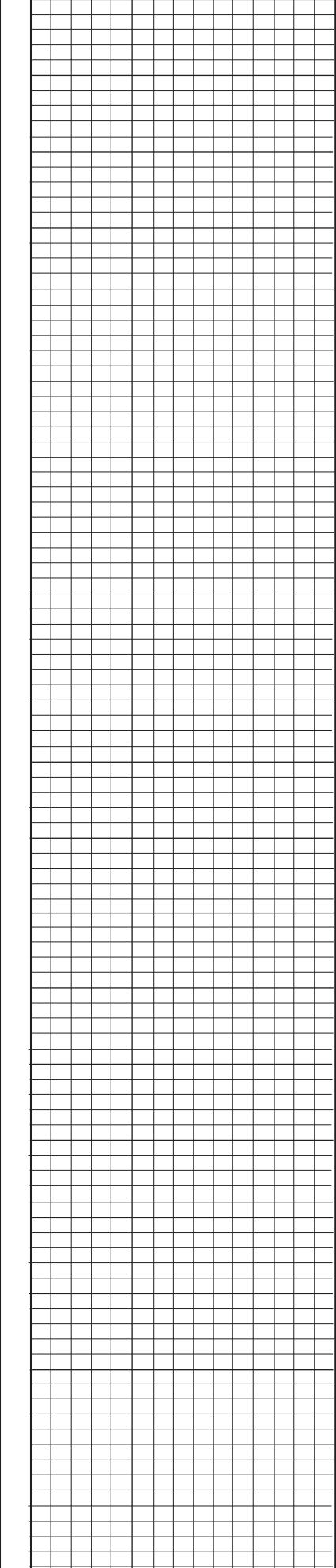
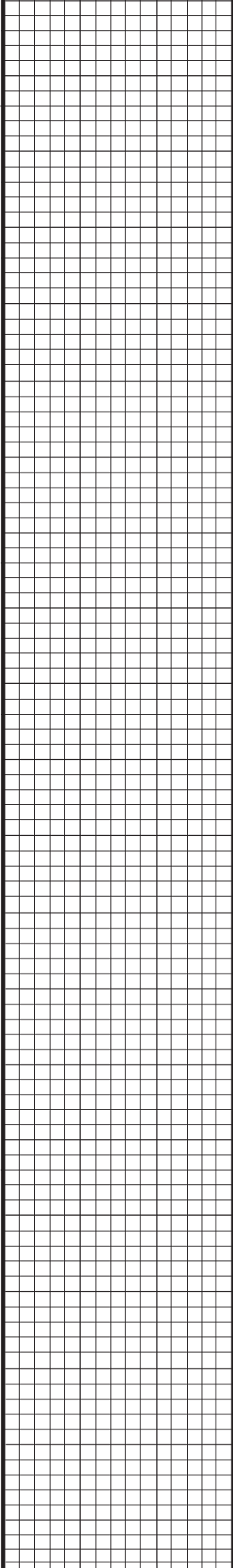


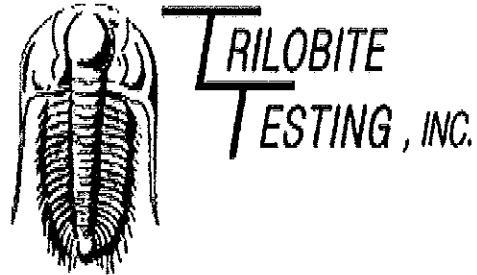












DRILL STEM TEST REPORT

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

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Ricke B #1

33-31s-11w Barber,KS

Start Date: 2014.08.26 @ 18:17:26

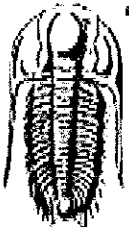
End Date: 2014.08.27 @ 01:13:41

Job Ticket #: 51824 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.02 @ 09:37:40

R & B Oil & Gas 33-31s-11w Barber,KS Ricke B #1 DST # 1 Toronto 2014.08.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

R & B Oil & Gas

33-31s-11w Barber, KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51824

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.08.26 @ 18:17:26

GENERAL INFORMATION:

Formation: Toronto

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:39:41

Time Test Ended: 01:13:41

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 3646.00 ft (KB) To 3685.00 ft (KB) (TVD)

Total Depth: 3685.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1579.00 ft (KB)

1569.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6798

Inside

Press@RunDepth: 13.73 psig @ 3647.00 ft (KB)

Start Date: 2014.08.26

End Date:

2014.08.27

Start Time: 18:17:27

End Time:

01:13:41

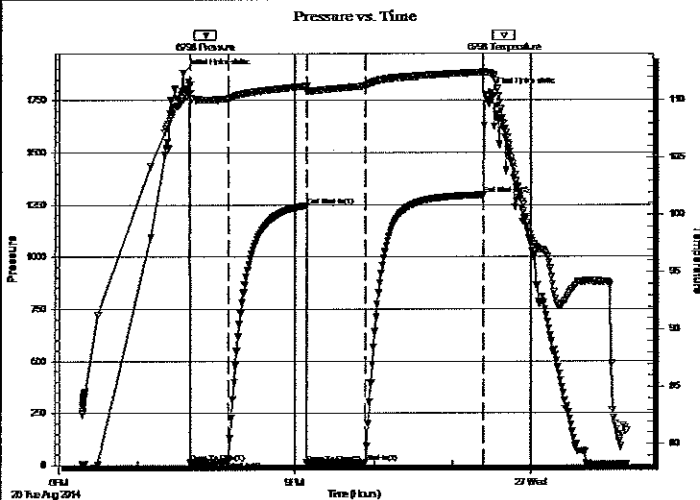
Capacity: 8000.00 psig

Last Calib.: 2014.08.27

Time On Btmr: 2014.08.26 @ 19:34:11

Time Off Btmr: 2014.08.26 @ 23:29:41

TEST COMMENT: IF: Fair Blow, BOB in 9 1/2 minutes
IS: No Blow Back
FF: Strong Blow, BOB in 10 seconds
FS: No Blow Back



PRESSURE SUMMARY

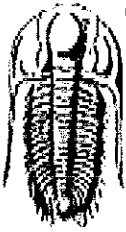
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.78	110.03	Initial Hydro-static
6	14.07	110.17	Open To Flow (1)
35	16.41	110.12	Shut-in(1)
94	1244.97	111.25	End Shut-in(1)
95	10.02	110.79	Open To Flow (2)
139	13.73	111.26	Shut-in(2)
230	1298.03	112.42	End Shut-in(2)
236	1787.45	112.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2049 GP	0.00
10.00	SGCM 2%G 98%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51824

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.08.26 @ 18:17:26

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:39:41

Time Test Ended: 01:13:41

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 3646.00 ft (KB) To 3685.00 ft (KB) (TVD)

Total Depth: 3685.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1579.00 ft (KB)

1569.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8367 Outside

Press@RunDepth: psig @ 3647.00 ft (KB)

Start Date: 2014.08.26

End Date:

2014.08.27

Start Time: 18:17:27

End Time:

01:13:41

Capacity: 8000.00 psig

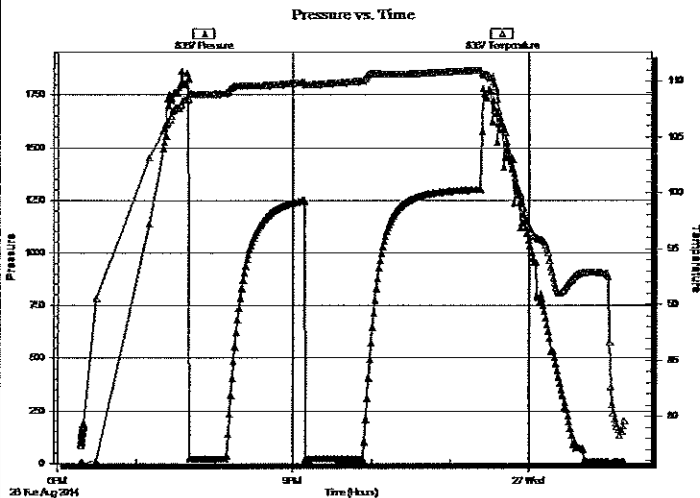
Last Calib.:

2014.08.27

Time On Bltn

Time Off Bltn

TEST COMMENT: IF: Fair Blow , BOB in 9 1/2 minutes
IS: No Blow Back
FF: Strong Blow , BOB in 10 seconds
FS: No Blow Back



PRESSURE SUMMARY

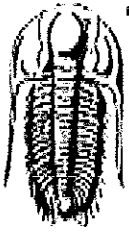
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2049 GP	0.00
10.00	SGCM 2%G 98%M	0.05

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51824

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.08.26 @ 18:17:26

Tool Information

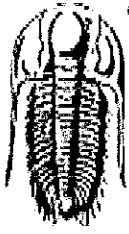
Drill Pipe:	Length: 3533.00 ft	Diameter: 3.80 inches	Volume: 49.56 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.14 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3646.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer on Bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3632.00	
Hydraulic tool	5.00			3637.00	
Packer	5.00			3642.00	19.00 Bottom Of Top Packer
Packer	4.00			3646.00	
Stubb	1.00			3647.00	
Recorder	0.00	6798	Inside	3647.00	
Recorder	0.00	8367	Outside	3647.00	
Perforations	3.00			3650.00	
Change Over Sub	1.00			3651.00	
Drill Pipe	30.00			3681.00	
Change Over Sub	1.00			3682.00	
Bullnose	3.00			3685.00	39.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51824

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.08.26 @ 18:17:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2049 GP	0.000
10.00	SGCM 2%G 98%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

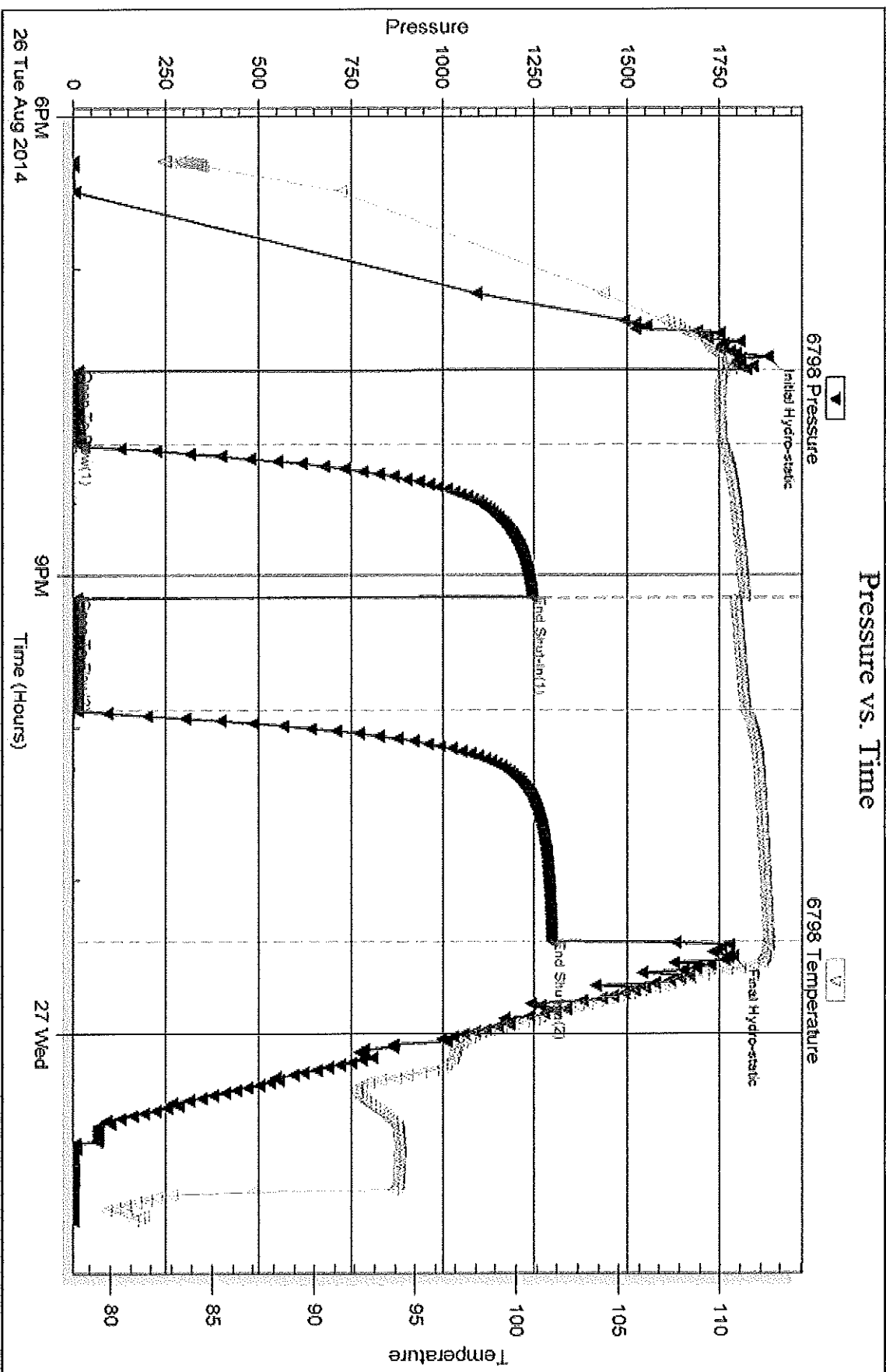
Serial #: 6798

Inside

R & B Oil & Gas

Ricke B#1

DST Test Number: 1



TriScribe Testing, Inc

Ref. No: 51824

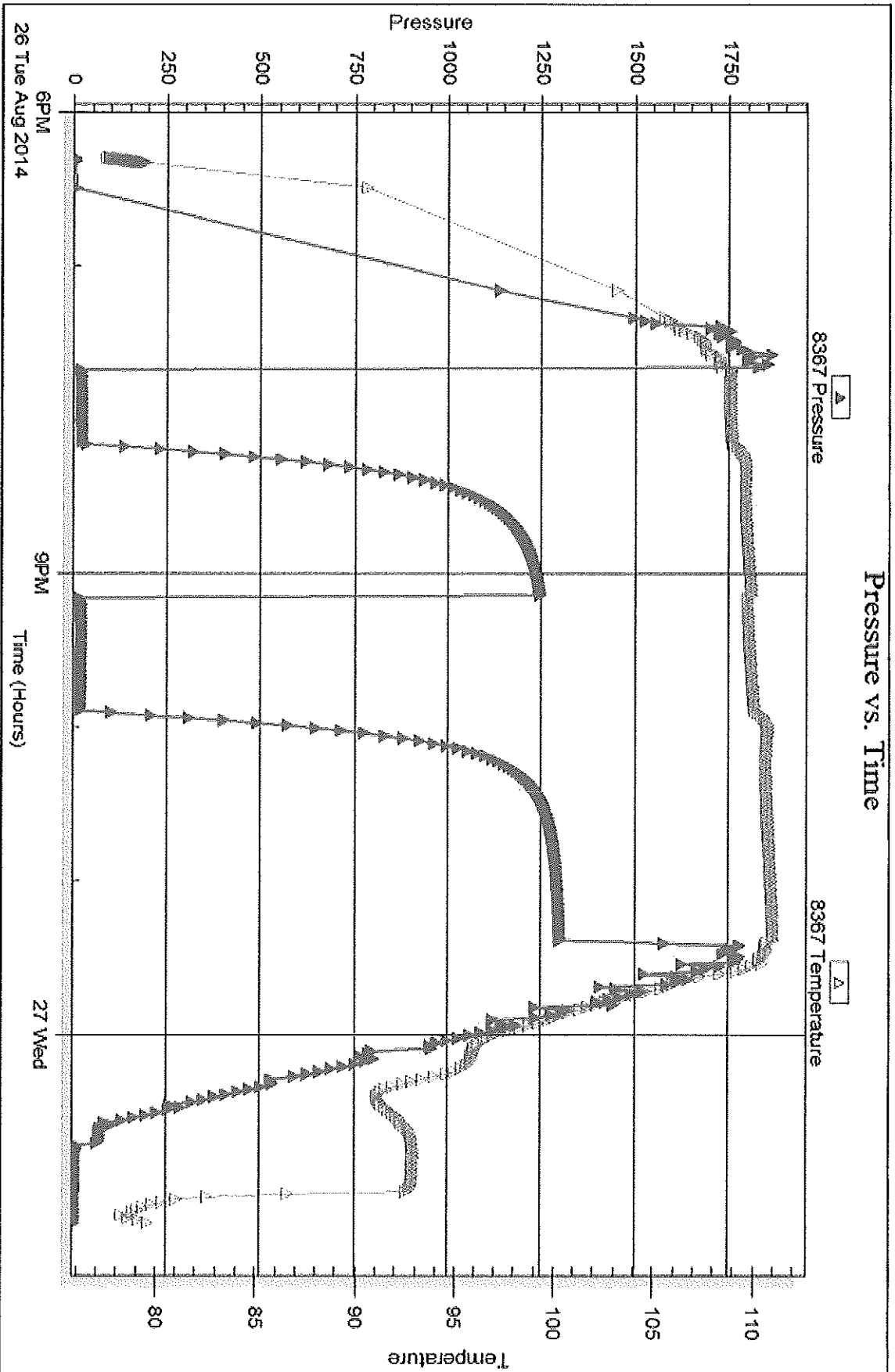
Printed: 2014.09.02 @ 09:37:41

Serial #: 8367

Outside R & B Oil & Gas

Ricke B #1

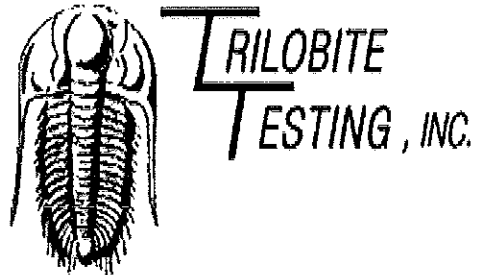
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 51824

Printed: 2014.09.02 @ 09:37:41



DRILL STEM TEST REPORT

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

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Ricke B #1

33-31s-11w Barber,KS

Start Date: 2014.08.28 @ 16:15:33

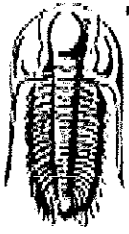
End Date: 2014.08.29 @ 02:38:33

Job Ticket #: 51825 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.02 @ 09:32:26

R & B Oil & Gas
33-31s-11w Barber,KS
Ricke B #1
DST # 2
Mississippi
2014.08.28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51825

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.08.28 @ 16:15:33

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:18

Time Test Ended: 02:38:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4342.00 ft (KB) To 4420.00 ft (KB) (TVD)

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1579.00 ft (KB)

1569.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6798 Inside

Press@RunDepth: 698.62 psig @ 4343.00 ft (KB)

Start Date: 2014.08.28

End Date: 2014.08.29

Start Time: 16:15:34

End Time: 02:38:33

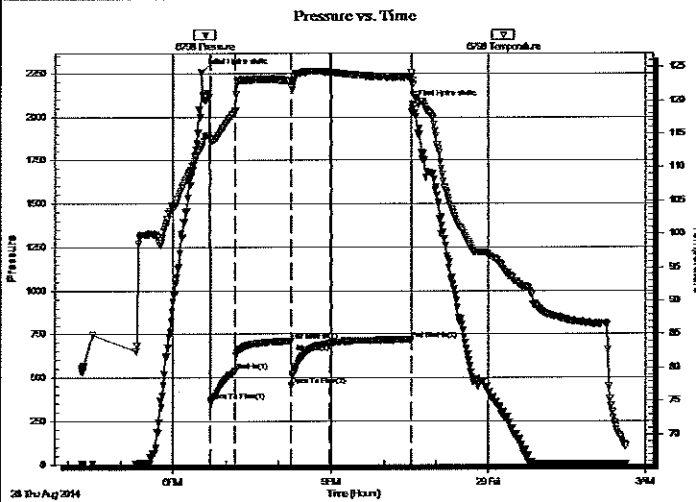
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2014.08.28 @ 18:31:18

Time Off Btm: 2014.08.28 @ 22:32:18

TEST COMMENT: FF: Strong Blow, BOB in 10 seconds, GTS in 7 minutes, Gauged Gas
IS: 1" Blow Back
FF: Strong Blow, BOB in 20 seconds, GTS immediate, Gauged Gas
FS: 5" Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.87	113.05	Initial Hydro-static
10	365.13	113.86	Open To Flow (1)
40	540.60	118.42	Shut-in(1)
103	714.30	122.88	End Shut-in(1)
103	457.97	121.98	Open To Flow (2)
147	698.62	124.16	Shut-in(2)
240	718.27	123.38	End Shut-in(2)
241	2070.08	122.91	Final Hydro-static

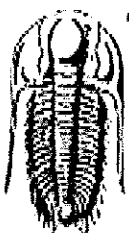
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
682.00	Water	8.49
248.00	GMCW 10%G 20%M 70%W	3.48
620.00	GMCW 5%G 40%M 55%W	8.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	65.00	535.61
Last Gas Rate	0.25	22.00	57.74
Max. Gas Rate	0.50	80.00	636.79

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51825 **DST#: 2**

ATTN: Tim Pierce

Test Start: 2014.08.28 @ 16:15:33

GENERAL INFORMATION:

Formation: **Mississippi**

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

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

Time Tool Opened: 18:41:18

Tester: **Leal Cason**

Time Test Ended: 02:38:33

Unit No: **74**

Interval: **4342.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Reference Elevations: **1579.00 ft (KB)**

Total Depth: **4420.00 ft (KB) (TVD)**

1569.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

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

Serial #: 8367

Outside

Press@RunDepth: psig @ **4343.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: 2014.08.28 End Date: 2014.08.29

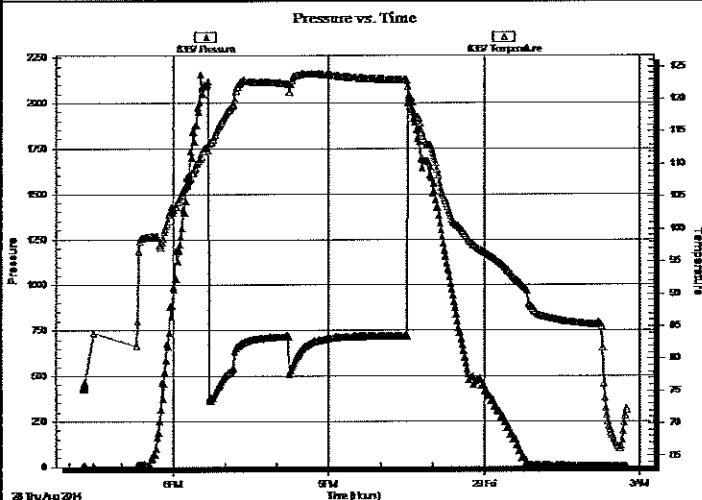
Last Calib.: 2014.08.29

Start Time: 16:15:34 End Time: 02:45:33

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow, BOB in 10 seconds, GTS in 7 minutes, Gauged Gas
IS: 1" Blow Back
FF: Strong Blow, BOB in 20 seconds, GTS immediate, Gauged Gas
FS: 5" Blow Back



PRESSURE SUMMARY

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

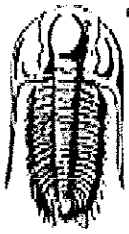
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
682.00	Water	8.49
248.00	GMCW 10%G 20%M 70%W	3.48
620.00	GMCW 5%G 40%M 55%W	8.70

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	65.00	535.61
Last Gas Rate	0.25	22.00	57.74
Max. Gas Rate	0.50	80.00	636.79

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas

33-31s-11w Barber, KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51825

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.08.28 @ 16:15:33

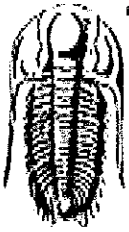
Tool Information

Drill Pipe:	Length: 4213.00 ft	Diameter: 3.80 inches	Volume: 59.10 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.68 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4342.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4328.00	
Hydraulic tool	5.00			4333.00	
Packer	5.00			4338.00	19.00 Bottom Of Top Packer
Packer	4.00			4342.00	
Stubb	1.00			4343.00	
Recorder	0.00	6798	Inside	4343.00	
Recorder	0.00	8367	Outside	4343.00	
Perforations	5.00			4348.00	
Change Over Sub	1.00			4349.00	
Drill Pipe	62.00			4411.00	
Change Over Sub	1.00			4412.00	
perforations	5.00			4417.00	
Bullnose	3.00			4420.00	78.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51825

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.08.28 @ 16:15:33

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:

82000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
682.00	Water	8.492
248.00	GMCW 10%G 20%M 70%W	3.479
620.00	GMCW 5%G 40%M 55%W	8.697

Total Length: 1550.00 ft

Total Volume: 20.668 bbl

Num Fluid Samples: 0

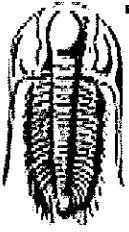
Num Gas Borris: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .09 @ 75 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

R & B Oil & Gas

33-31s-11w Barber, KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 51825

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.08.28 @ 16:15:33

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.50	65.00	535.61
1	10	0.50	65.00	535.61
1	20	0.50	80.00	636.79
2	10	0.25	8.00	35.54
2	20	0.25	20.00	54.57
2	30	0.25	22.00	57.74
2	40	0.25	22.00	57.74

Serial #: 6798

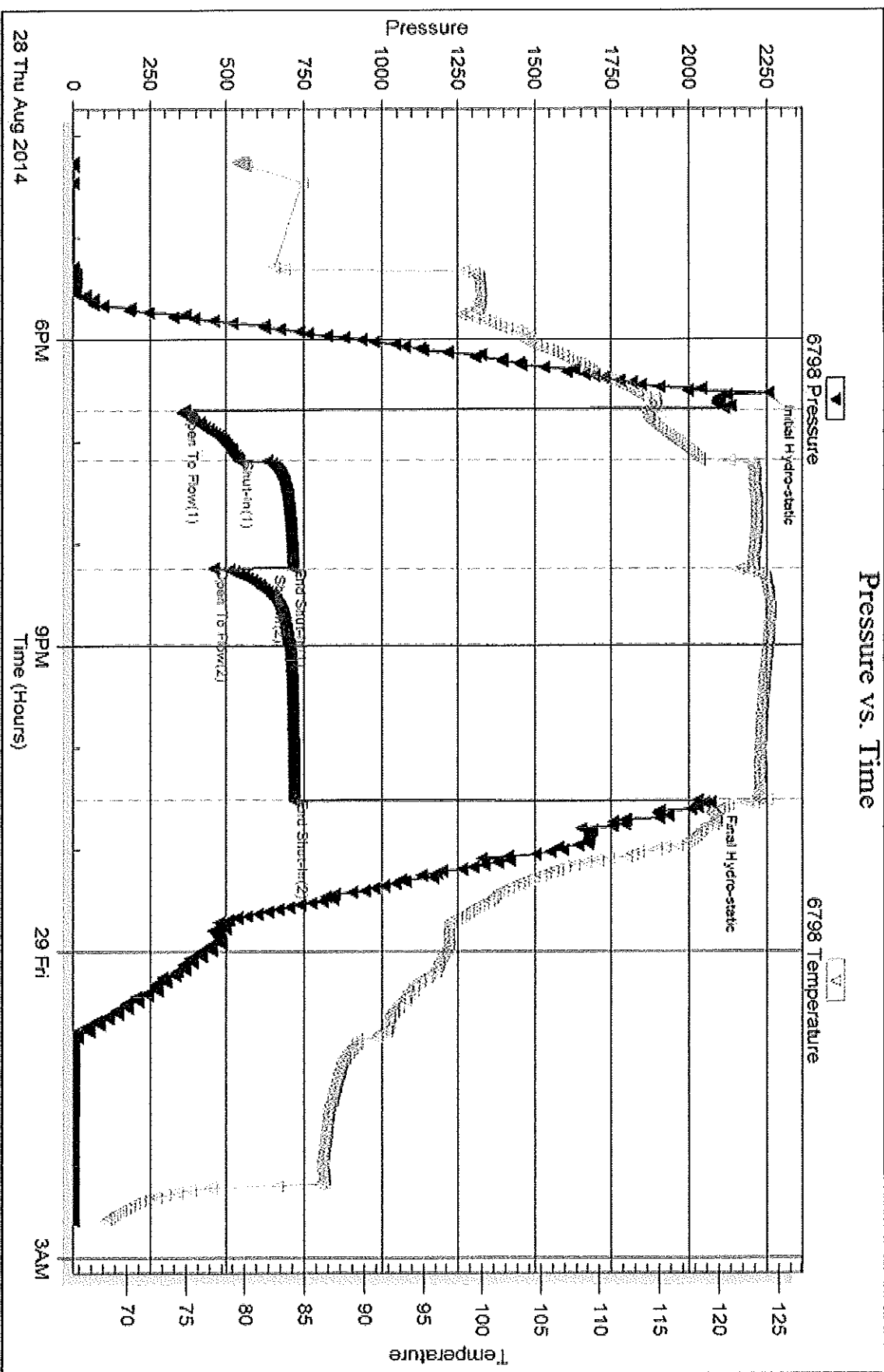
Inside

R & B Oil & Gas

Recke B#1

DST Test Number 2

Pressure vs. Time

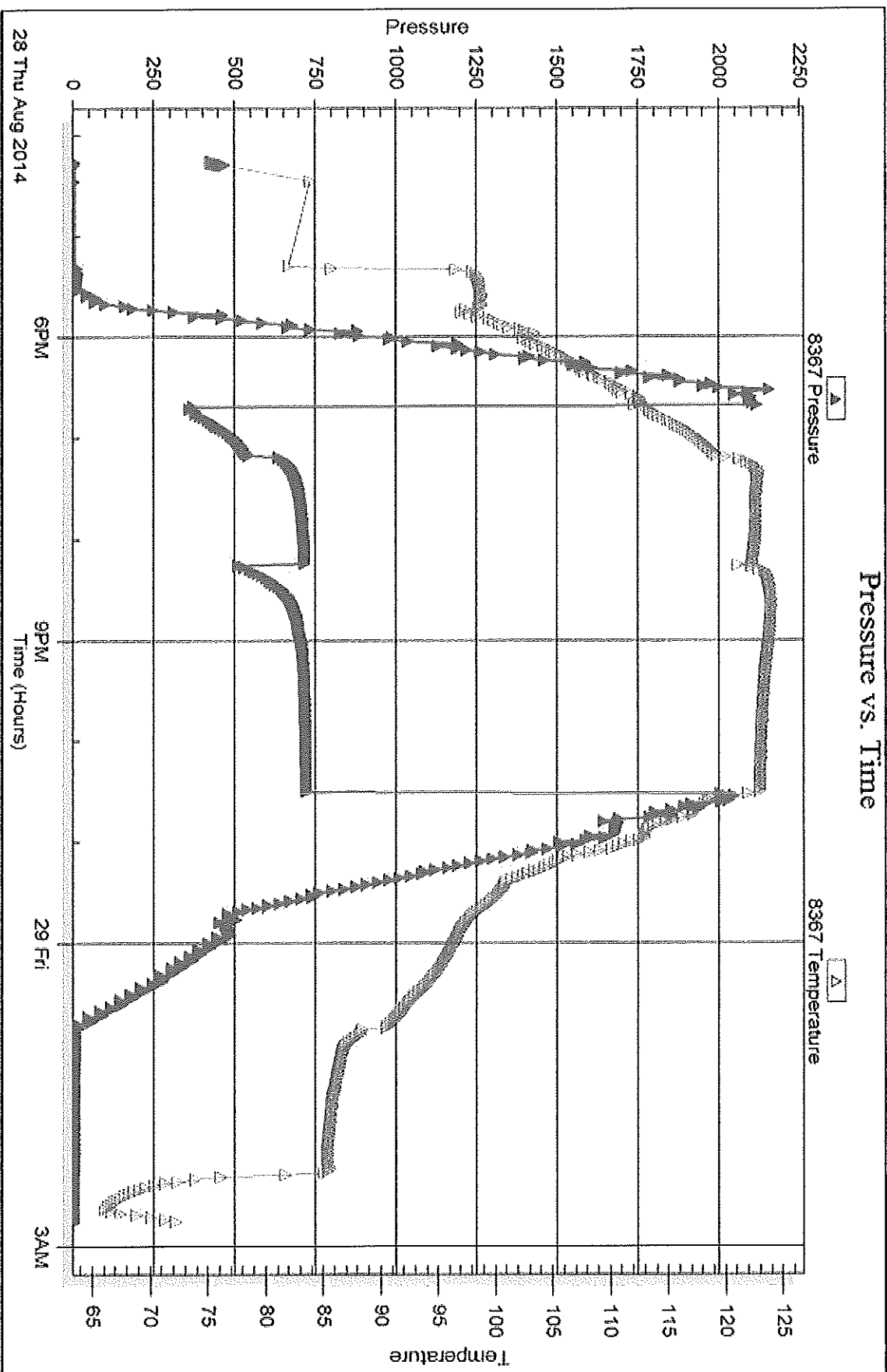


Serial #: 8367

Outside R & B Oil & Gas

Reke B#1

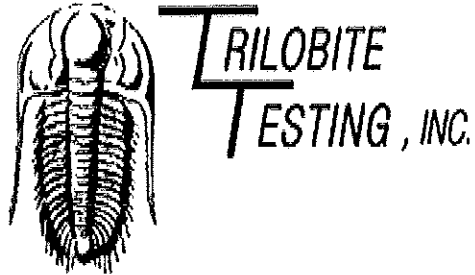
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 51825

Printed: 2014.09.02 @ 09:32:27



DRILL STEM TEST REPORT

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

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

Ricke B #1

33-31s-11w Barber,KS

Start Date: 2014.08.29 @ 18:09:59

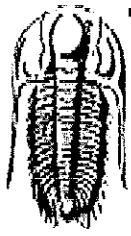
End Date: 2014.08.30 @ 01:49:07

Job Ticket #: 57751 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.02 @ 09:36:18

R & B Oil & Gas
33-31s-11w Barber,KS
Ricke B #1
DST # 3
Cherokee
2014.08.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

R & B Oil & Gas

33-31s-11w Barber, KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 57751

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.08.29 @ 18:09:59

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:39:29

Time Test Ended: 01:49:07

Test Type: Conventional Straddle (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4346.00 ft (KB) To 4394.00 ft (KB) (TVD)

Total Depth: 4394.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1579.00 ft (KB)

1569.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6798

Inside

Press@RunDepth: 631.80 psig @ 4347.00 ft (KB)

Start Date: 2014.08.29

End Date:

2014.08.30

Start Time: 18:10:00

End Time:

01:49:07

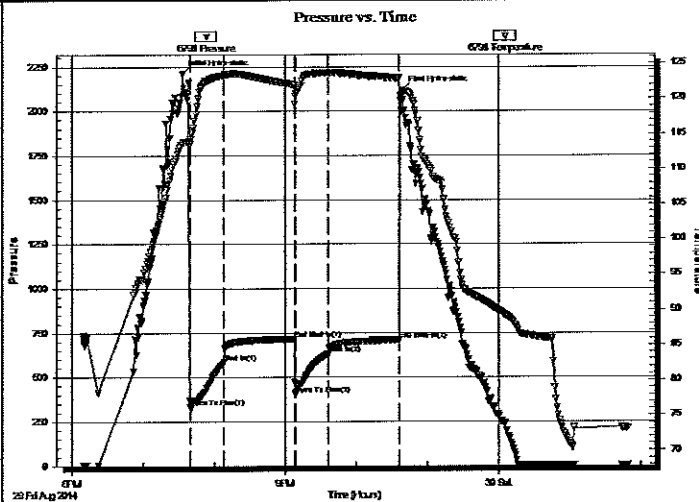
Capacity: 8000.00 psig

Last Calib.: 2014.08.30

Time On Bltn: 2014.08.29 @ 19:33:14

Time Off Bltn: 2014.08.29 @ 22:38:59

TEST COMMENT: IF: Strong Blow, BOB in 10 seconds, GTS in 12 minutes, Gaugrd Gas
IS: 4 1/2inch Blow Back
FF: Strong Blow, BOB in 5 seconds, GTS immediate, Gauged Gas
FS: Would Not Bleed Off



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.81	113.67	Initial Hydro-static
7	331.88	113.49	Open To Flow (1)
36	582.28	123.21	Shut-In(1)
95	717.49	121.97	End Shut-In(1)
96	403.18	120.33	Open To Flow (2)
124	631.80	123.64	Shut-In(2)
183	711.40	122.86	End Shut-In(2)
186	2117.14	120.43	Final Hydro-static

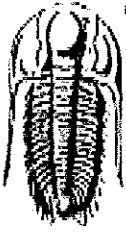
Recovery

Length (ft)	Description	Volume (bbl)
0.00	3070 GP	0.00
558.00	Water	6.75
186.00	GMCW 6%G 14%M 80%W	2.61
516.00	GWCM 20%G 20%W 60%M	7.24

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	100.00	181.49
Last Gas Rate	0.25	67.00	129.13
Max. Gas Rate	0.25	180.00	308.40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

R & B Oil & Gas

PO Box 195
Attica, KS 67009

ATTN: Tim Pierce

33-31s-11w Barber, KS

Ricke B #1

Job Ticket: 57751 DST#: 3

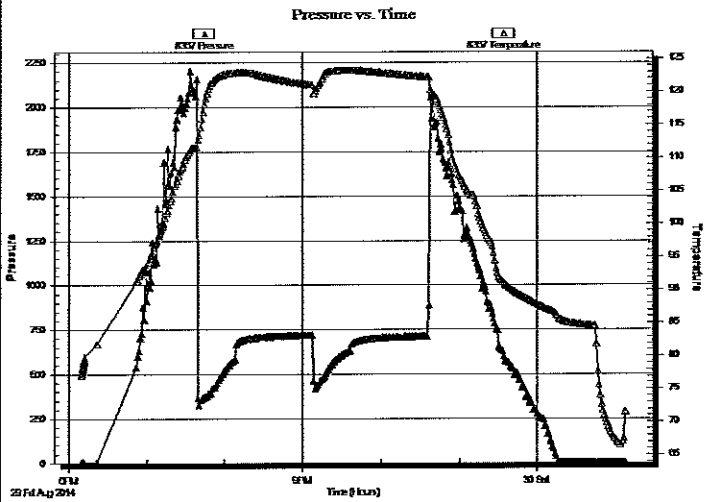
Test Start: 2014.08.29 @ 18:09:59

GENERAL INFORMATION:

Formation:	Cherokee	Test Type:	Conventional Straddle (Reset)
Deviated:	No Whipstock: ft (KB)	Tester:	Leal Cason
Time Tool Opened:	19:39:29	Unit No:	74
Time Test Ended:	01:49:07	Reference Elevations:	1579.00 ft (KB) 1569.00 ft (CF)
Interval:	4346.00 ft (KB) To 4394.00 ft (KB) (TVD)	KB to GR/CF:	10.00 ft
Total Depth:	4394.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches	Hole Condition:	Good

Serial #: 8367	Outside	Capacity:	8000.00 psig
Press@RunDepth:	psig @ 4347.00 ft (KB)	Last Calib.:	2014.08.30
Start Date:	2014.08.29	End Date:	2014.08.30
Start Time:	18:10:00	End Time:	01:08:14
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: F: Strong Blow , BOB in 10 seconds, GTS in 12 minutes, Gaugrd Gas
 IS: 4 1/2inch Blow Back
 FF: Strong Blow , BOB in 5 seconds, GTS immediate, Gauged Gas
 FS: Would Not Bleed Off



PRESSURE SUMMARY

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

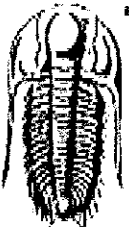
Recovery

Length (ft)	Description	Volume (bbl)
0.00	3070 GP	0.00
558.00	Water	6.75
186.00	GMCW 6%G 14%M 80%W	2.61
516.00	GWCM 20%G 20%W 60%M	7.24

* Recovery from multiple tests

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	100.00	181.49
Last Gas Rate	0.25	67.00	129.13
Max. Gas Rate	0.25	180.00	308.40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 57751

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.08.29 @ 18:09:59

GENERAL INFORMATION:

Formation: Cherokee

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:39:29

Time Test Ended: 01:49:07

Test Type: Conventional Straddle (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 4346.00 ft (KB) To 4394.00 ft (KB) (TVD)

Reference Elevations: 1579.00 ft (KB)

Total Depth: 4394.00 ft (KB) (TVD)

1569.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8358 Below (Straddle)

Press@RunDepth: psig @ 4408.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.29

End Date: 2014.08.30

Last Calib.: 2014.08.30

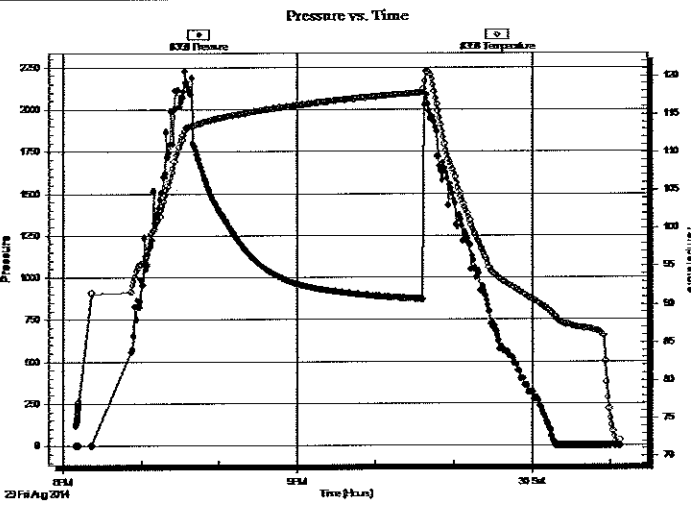
Start Time: 18:10:00

End Time: 01:07:29

Time On Blm:

Time Off Blm:

TEST COMMENT: F: Strong Blow, BOB in 10 seconds, GTS in 12 minutes, Gaugrd Gas
IS: 4 1/2inch Blow Back
FF: Strong Blow, BOB in 5 seconds, GTS immediate, Gauged Gas
FS: Would Not Bleed Off



PRESSURE SUMMARY

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

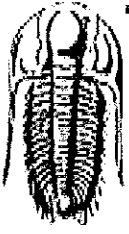
Recovery

Length (ft)	Description	Volume (bbl)
0.00	3070 GP	0.00
558.00	Water	6.75
186.00	GMCW 6%G 14%M 80%W	2.61
516.00	GWCM 20%G 20%W 60%M	7.24

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	100.00	181.49
Last Gas Rate	0.25	67.00	129.13
Max. Gas Rate	0.25	180.00	308.40

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 57751

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.08.29 @ 18:09:59

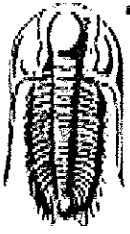
Tool Information

Drill Pipe:	Length: 4212.00 ft	Diameter: 3.80 inches	Volume: 59.08 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.66 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4346.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4394.00 ft			
Interval between Packers:	48.00 ft			
Tool Length:	147.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4332.00	
Hydraulic tool	5.00			4337.00	
Packer	5.00			4342.00	19.00 Bottom Of Top Packer
Packer	4.00			4346.00	
Stubb	1.00			4347.00	
Recorder	0.00	6798	Inside	4347.00	
Recorder	0.00	8367	Outside	4347.00	
Perforations	7.00			4354.00	
Change Over Sub	1.00			4355.00	
Drill Pipe	31.00			4386.00	
Change Over Sub	1.00			4387.00	
Perforations	6.00			4393.00	
Blank Off Sub	1.00			4394.00	48.00 Tool Interval
Packer	3.00			4397.00	
Perforations	10.00			4407.00	
Change Over Sub	1.00			4408.00	
Recorder	0.00	8358	Below	4408.00	
Drill Pipe	62.00			4470.00	
Change Over Sub	1.00			4471.00	
Bullnose	3.00			4474.00	80.00 Bottom Packers & Anchor

Total Tool Length: 147.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 57751

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.08.29 @ 18:09:59

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:

72000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	3070 GP	0.000
558.00	Water	6.752
186.00	GMCW 6%G 14%M 80%W	2.609
516.00	GWCM 20%G 20%W 60%M	7.238

Total Length: 1260.00 ft Total Volume: 16.599 bbf

Num Fluid Samples: 0

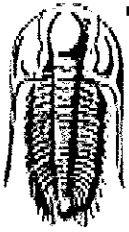
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .095 @ 80 Degrees



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

R & B Oil & Gas

33-31s-11w Barber,KS

PO Box 195
Attica, KS 67009

Ricke B #1

Job Ticket: 57751

DST#: 3

ATTN: Tim Pierce

Test Start: 2014.08.29 @ 18:09:59

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	15	0.25	100.00	181.49
1	20	0.25	140.00	244.94
1	30	0.25	180.00	308.40
2	10	0.25	48.00	98.99
2	20	0.25	68.00	130.72
2	30	0.25	67.00	129.13

Serial #: 6798

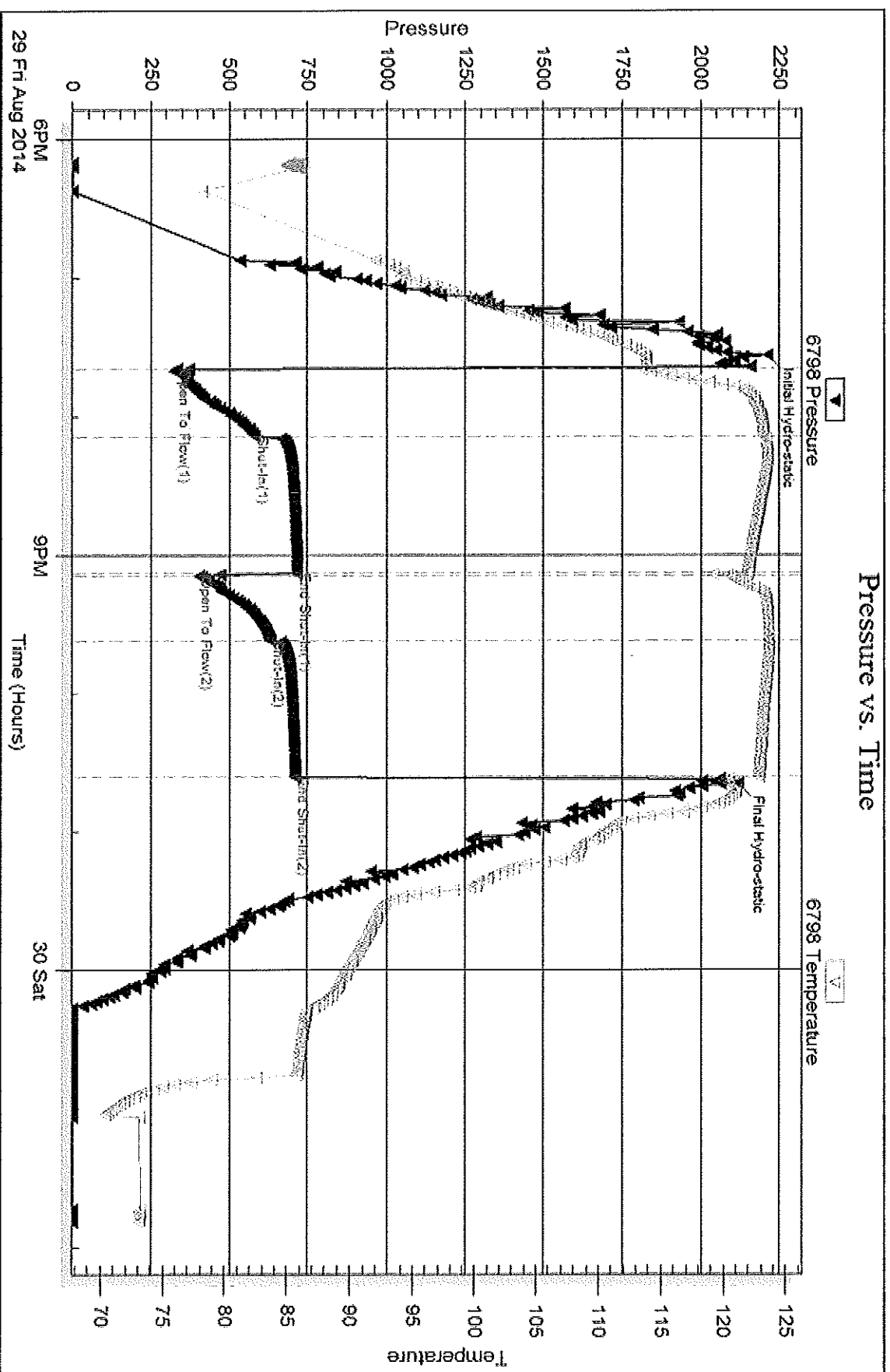
Inside

R & B Oil & Gas

Ricke B #1

OST Test Number: 3

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 57751

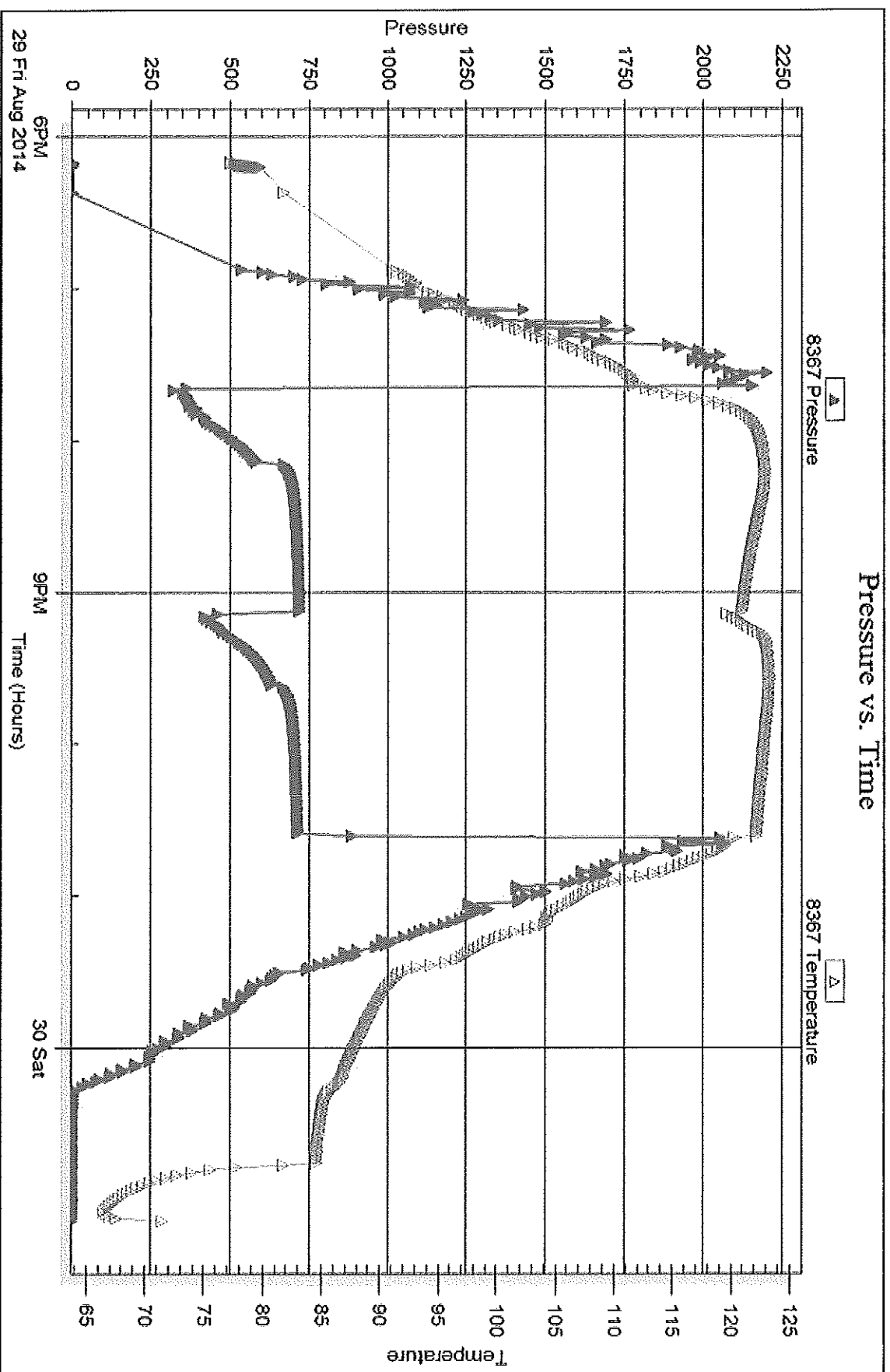
Printed: 2014.09.02 @ 09:36:19

Serial #: 8367

Outside R & B Oil & Gas

Rocke B#1

DST Test Number: 3

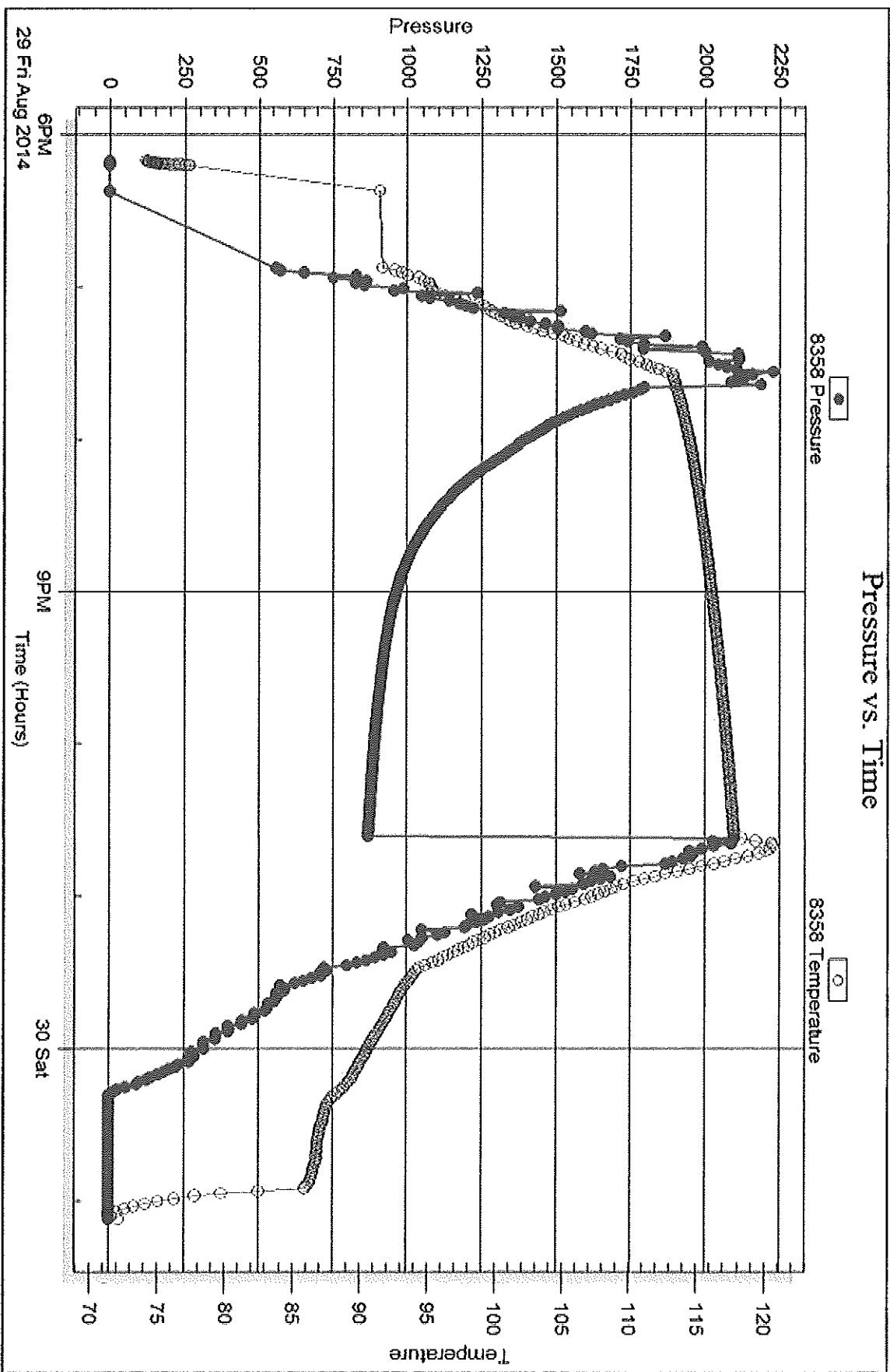


Serial #: 8358

Below (Surf) Air Oil & Gas

Ricke B #1

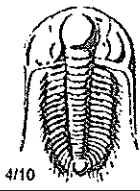
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 57751

Printed: 2014.09.02 @ 09:36:20



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51824

Well Name & No. Ricke B-1 Test No. 1 Date 08/26/14
 Company R+B Oil & Gas Elevation 1579 KB 1569 GL
 Address PO Box 195 Attila, KS 67009
 Co. Rep / Geo. Tim Pierce Rig Hardt 1
 Location: Sec. 33 Twp. 31S Rge. 11W Co. Barber State KS

Interval Tested 3646 - 3685 Zone Tested TORONTO
 Anchor Length 39 Drill Pipe Run 3533 Mud Wt. 9.4
 Top Packer Depth 3641 Drill Collars Run 118 Vis 54
 Bottom Packer Depth 3646 Wt. Pipe Run 0 WL 9.0
 Total Depth 3685 Chlorides 4500 ppm System LCM

Blow Description IF: Fair Blow, BOB in 9 1/2 minutes
ISI: NO Blow Back
FF: Strong Blow, BOB in 10 seconds
FSI: NO Blow Back

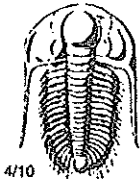
Rec	Feet of	%gas	%oil	%water	%mud
<u>2049</u>	<u>Feet of GIP</u>				
<u>10</u>	<u>Feet of SGCM</u>	<u>2</u>			<u>98</u>

Rec Total 10 BHT 112 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic <u>1884</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:00</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars	T-Started <u>18:17</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint	T-Open <u>19:39</u>
(D) Initial Shut-In <u>1245</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>23:23</u>
(E) Second Initial Flow <u>10</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>01:13</u>
(F) Second Final Flow <u>14</u>	<input checked="" type="checkbox"/> Mileage <u>80</u> 124	Comments
(G) Final Shut-In <u>1298</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1787</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>1524.00</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1524</u>	

Approved By Tim Pierce Our Representative [Signature]

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. 51825

Well Name & No. Ricke B-1 Test No. 2 Date 08/28/14
 Company R+B Oil & Gas Elevation 1579 KB 1569 GL
 Address PO Box 195 Attica, KS 67009
 Co. Rep / Geo. Tim Pierce Rig Hardt 1
 Location: Sec. 33 Twp. 31S Rge. 11W Co. Barber State KS

Interval Tested 4342 - 4420 Zone Tested Mississippi
 Anchor Length 78 Drill Pipe Run 4213 Mud Wt. 9.3
 Top Packer Depth 4337 Drill Collars Run 118 Vis 42
 Bottom Packer Depth 4342 Wt. Pipe Run 0 WL 9.6
 Total Depth 4420 Chlorides 4500 ppm System LCM 2

Blow Description IF: Strong Blow, BOB in 10 ^{seconds}, GTS in 7 minutes, Gauged Gas
ISI: 1 inch Blow Back

FF: Strong Blow, BOB in 20 seconds, GTS immediate, Gauged Gas

FSI: 5 inch Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2781</u>	<u>Feet of GIP</u>				
<u>620</u>	<u>Feet of GMCW</u>	<u>5</u>	<u>55</u>	<u>40</u>	<u>40</u>
<u>248</u>	<u>Feet of GMCW</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>20</u>
<u>620</u>	<u>Feet of Water</u>				
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1550 BHT 124 Gravity NIC API RW .09 @ 75 °F Chlorides 82000 ppm

(A) Initial Hydrostatic <u>2257</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>15:00</u>
(B) First Initial Flow <u>365</u>	<input type="checkbox"/> Jars	T-Started <u>16:15</u>
(C) First Final Flow <u>540</u>	<input type="checkbox"/> Safety Joint	T-Open <u>18:41</u>
(D) Initial Shut-In <u>714</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:30</u>
(E) Second Initial Flow <u>458</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>02:38</u>
(F) Second Final Flow <u>698</u>	<input checked="" type="checkbox"/> Mileage <u>124</u> <u>(80)</u>	Comments
(G) Final Shut-In <u>718</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2070</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Ruined Packer
Final Flow <u>45</u>	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	Sub Total <u>458.33</u>
	Total <u>1732.33</u>
	MP/DST Disc't

Approved By Tim Pierce Our Representative [Signature]

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

Gas Volume Report

R+B Oil + Gas

Ricker B-1

2

Operator: GTS - 7 minutes

Well Name and No.

DST No.

Min.	Inch. of Water PSI @	Orifice Size	M CF/D	Min.	Inch. of Water PSI @	Orifice Size	M CF/D
10	65	1/2	535.608	10	8	1/4	35.535
20	80	1/2	636.793	20	20	1/4	54.572
30	50	1/2	434.422	30	22	1/4	57.745
				40	22	1/4	57.745
				45	22	1/4	57.745

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Gas Volume Report

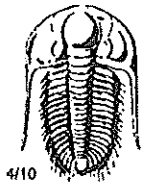
RLB Oil & Gas
Operator

Ricke B-1
Well Name and No.

3
DST No.

Min.	In. of Water PSIG	Orifice Size	MCF/D	Min.	In. of Water PSIG	Orifice Size	CF/D
15	100	1/4	181.475	10	48	1/4	98.992
20	140	1/4	244.941	20	68	1/4	130.720
30	180	1/4	308.397	30	67	1/4	129.133

Remarks:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57751

Well Name & No. Ricke B-1 Test No. 3 Date 08/29/14
 Company R+B Oil & Gas Elevation 1579 KB 1569 GL
 Address PO BOX 195 Attica, KS 67009
 Co. Rep / Geo. Tim Pierce Rig Hardt 1
 Location: Sec. 33 Twp. 31S Rge. 11W Co. Barber State KS

Interval Tested 4346 - 4394 Zone Tested Cherokee
 Anchor Length 48 Drill Pipe Run 4212 Mud Wt. 9.1
 Top Packer Depth 4341 Drill Collars Run 118 Vis 53
 Bottom Packer Depth 4394 Wt. Pipe Run 0 WL 9.2
 Total Depth 4472 Chlorides 5500 ppm System LCM 2

Blow Description IF: strong blow, BOB in 10 seconds, GTS in 12 minutes, Gauged Gas
ISI: 4 1/2 inch Blow Back
FF: strong Blow, BOB in 5 seconds GTS immediate, Gauged Gas
FSI: WOULD NOT BLEED OFF

Rec	Feet of	%gas	%oil	%water	%mud
<u>3070</u>	<u>Feet of GIP</u>				
<u>516</u>	<u>Feet of GWCN</u>	<u>20</u>		<u>20</u>	<u>60</u>
<u>186</u>	<u>Feet of GMCW</u>	<u>6</u>		<u>80</u>	<u>14</u>
<u>558</u>	<u>Feet of WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1260 BHT 123° Gravity N/C API RW .095 @ 80 °F Chlorides 72000 ppm

(A) Initial Hydrostatic 2211 Test 1250 T-On Location 17:15
 (B) First Initial Flow 332 Jars _____ T-Started 18:09
 (C) First Final Flow 582 Safety Joint _____ T-Open 19:39
 (D) Initial Shut-In 717 Circ Sub _____ T-Pulled 22:36
 (E) Second Initial Flow 403 Hourly Standby _____ T-Out 01:49
 (F) Second Final Flow 632 Mileage (80) 124 Comments _____
 (G) Final Shut-In 711 Sampler _____
 (H) Final Hydrostatic 2117 Straddle 600 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Sub Total 1974 Accessibility _____
 Total 1974 MP/DST Disc't _____

Approved By Tim Pierce Our Representative [Signature]

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.

ALLIED OIL & GAS SERVICES, LLC 063158

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
MEDLINE LODGE 10

DATE <u>8-22-14</u>	SEC <u>33</u>	TWP <u>31</u>	RANGE <u>11</u>	CALLED OUT <u>2:00 PM</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>3:45 PM</u>	JOB FINISH <u>3:45 PM</u>
LEASE <u>RICKLE</u>		WELL # <u>B#1</u>		LOCATION <u>ISABEL + CURRY LN B#1/2</u>		COUNTY <u>BOZEMAN</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			N INTO				

CONTRACTOR HARDT #1 OWNER R+B

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. _____ CEMENT _____

CASING SIZE 8 5/8 DEPTH 239 AMOUNT ORDERED _____

TUBING SIZE _____ DEPTH _____ 225 sk A 3+2

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 20'

CEMENT LEFT IN CSG. 20'

PERFS. _____

DISPLACEMENT FRESH H₂O

EQUIPMENT

PUMP TRUCK CEMENTER SCOTT PRIDDY

894-302 HELPER RON GILLO

BULK TRUCK _____

421-290 DRIVER JAMES BOWEN

BULK TRUCK _____

_____ DRIVER WAYNE RUCKER

REMARKS:

SAFETY MEETING, SPOY IN RIG UP
PRESSURE TEST, PUMP SPEART
PUMP ALL CEMENT, START DISPLACEMENT
WASH UP ON TOP OF PLUG,
END DISPLACEMENT SHUT IN WELL
DID CIRCULATE CEMENT

COMMON <u>225 sk</u>	@ <u>17.90</u>	<u>4022.50</u>
POZMIX _____	@ _____	_____
GEL <u>425 "</u>	@ <u>0.50</u>	<u>211.50</u>
CHLORIDE <u>634.5 "</u>	@ <u>1.10</u>	<u>697.95</u>
ASC _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING _____	@ _____	_____
MILEAGE _____	@ _____	_____
<u>20% = 987.39</u>	TOTAL	<u>4936.95</u>

SERVICE

DEPTH OF JOB <u>239'</u>		
PUMP TRUCK CHARGE <u>1512.25</u>		
EXTRA FOOTAGE <u>10.5</u>	@ <u>4.40</u>	<u>22.00</u>
MILEAGE <u>5</u>	@ <u>7.70</u>	<u>38.50</u>
MANIFOLD _____	@ _____	<u>275.60</u>
Handling <u>243.39</u>	@ <u>2.48</u>	<u>603.60</u>
Mileage <u>55.51</u>	@ <u>2.70</u>	<u>149.87</u>
<u>20% = 520.24</u>	TOTAL	<u>2601.22</u>

CHARGE TO: R+B OIL & GAS
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 7538.17

DISCOUNT _____ IF PAID IN 30 DAYS

NET 6030.53

PRINTED NAME _____

SIGNATURE Scott C. Adair

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.

ALLIED OIL & GAS SERVICES, LLC 063234

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE <i>8.30.14</i>	SEC <i>33</i>	TWP <i>31</i>	RANGE <i>11</i>	CALLED OUT	ON LOCATION <i>1:00 Pm</i>	JOB START <i>2:00P</i>	JOB FINISH <i>3:30P</i>
LEASE <i>Rickie B</i>		WELL # <i>1</i>	LOCATION <i>Isabell Rd N 1 E 1 1/2</i>		COUNTY <i>Barber</i>	STATE <i>KS</i>	
OLD OR (NEW) (Circle one)			<i>N into</i>				

CONTRACTOR *Hardt*
 TYPE OF JOB *Rotary Plug*
 HOLE SIZE *7 7/8* T.D. *750 Plug*
 CASING SIZE *8 5/8* DEPTH *752*
 TUBING SIZE DEPTH
 DRILL PIPE *4 1/2* DEPTH *750*
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *—*
 CEMENT LEFT IN CSG. *—*
 PERFS. *—*
 DISPLACEMENT *—*

OWNER *R+B OIL & GAS*
 CEMENT
 AMOUNT ORDERED *150 SX 60' 40' 41'*
Gel

EQUIPMENT

PUMP TRUCK CEMENTER *Jake Heard*
 # *548/545* HELPER *Justin Bower*
 BULK TRUCK
 # *561/643* DRIVER *Wayne Rucker*
 BULK TRUCK
 # DRIVER

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
<i>Allied 60' 40' 41' kind 150sx</i>	@ <i>18.92</i>	<i>2838.00</i>
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		

REMARKS:

1st plug 750' 50 sx
2nd Plug 270' 50 sx
3rd Plug 60' 20 sx
Rat Hole 30 sx

20% = 567.6 TOTAL *2838.00*

SERVICE

DEPTH OF JOB	<i>750, 270, 60</i>	
PUMP TRUCK CHARGE		<i>2158.75</i>
EXTRA FOOTAGE <i>LV 5</i>	@ <i>4.40</i>	<i>22.00</i>
MILEAGE <i>5</i>	@ <i>7.70</i>	<i>38.50</i>
MANIFOLD	@	
<i>Handling 159 cu/ft</i>	@ <i>2.48</i>	<i>394.32</i>
<i>Drayage 6.708/33.54/</i>	@ <i>2.75</i>	<i>92.24</i>

20% = 541.16 TOTAL *2705.81*

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

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

To: Allied Oil & Gas Services, LLC.
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SALES TAX (If Any) _____
 TOTAL CHARGES *5543.81*
 DISCOUNT *4435.05* IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE *Scott C. Adilcha*