



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1232258  
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: \_\_\_\_\_



1232258

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED OIL & GAS SERVICES, LLC 062799

Federal Tax I.D. # 20-8651476

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

SERVICE POINT:  
Medicine Lodge, KS.

DATE <u>6-16-14</u>	SEC <u>6</u>	TWP <u>22S</u>	RANGE <u>10W</u>	CALLED OUT <u>2:00 PM</u>	ON LOCATION <u>2:40 PM</u>	JOB START <u>4:00 PM</u>	JOB FINISH <u>4:50 PM</u>
LEASE <u>Dana</u>		WELL# <u>1</u>	LOCATION <u>Sharon, KS. 1.8 miles N,</u>		COUNTY <u>Franklin</u>	STATE <u>Kansas</u>	
OLD OR NEW (Circle one)			<u>1.3 W, North to Farmhouse, W+N</u>				

CONTRACTOR <u>Hardt #1</u>	OWNER <u>R+B oil + Gas</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4"</u>	T.D. <u>247'</u>
CASING SIZE <u>8 5/8"</u>	DEPTH <u>253'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>200</u>	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>14 3/4 Bbls Water</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Frank Pollock</u>	
# <u>894-265</u> HELPER <u>Robert Johnson</u>	
BULK TRUCK	
# <u>364</u> DRIVER <u>James Bowes</u>	
BULK TRUCK	
#	DRIVER

**REMARKS:**

Run 253' 8 5/8 casing  
Break circulation  
Mix 225 sz 60:40:3+L  
Displace with 14 3/4 Bbls water  
Leave 20' cement in pipe  
Shut in

CHARGE TO: R+B oil + Gas

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 \_\_\_\_\_

SIGNATURE Scott C. Adellar

CEMENT	
AMOUNT ORDERED	<u>225 sz 60:40:3+L + 2.6 sz</u>
COMMON	@ _____
POZMIX	@ _____
GEL	@ _____
CHLORIDE	@ _____
ASC	@ _____
<u>60:40:2</u>	<u>225 sz</u> @ <u>18.43</u> <u>4146.75</u>
<u>CC 580</u>	@ <u>1.10</u> <u>638.00</u>
HANDLING	@ _____
MILEAGE	@ _____
<u>20% = 1956.95</u>	TOTAL <u>4784.75</u>

**SERVICE**

DEPTH OF JOB <u>253'</u>	
PUMP TRUCK CHARGE	<u>1512.25</u>
L. <u>25'</u>	@ <u>4.40</u> <u>110.00</u>
MILEAGE <u>25'</u>	@ <u>7.70</u> <u>192.50</u>
MANIFOLD	@ _____
<u>241</u>	@ <u>2.48</u> <u>597.68</u>
<u>495.84</u>	@ <u>2.75</u> <u>1363.56</u>
<u>20% = 755.19</u>	TOTAL <u>3775.99</u>

**PLUG & FLOAT EQUIPMENT**

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
TOTAL	_____

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 8560.74

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

NET 6848.59

# ALLIED OIL & GAS SERVICES, LLC 062833

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Medicine Lodge KS

DATE <u>6-26-14</u>	SEC. <u>6</u>	TWP. <u>32.5</u>	RANGE <u>18w</u>	CALLED OUT <u>10:30 PM</u>	ON LOCATION <u>4:00 AM</u>	JOB START <u>8:45 AM</u>	JOB FINISH <u>9:45 AM</u>
LEASE <u>Dana</u>	WELL # <u>1</u>	LOCATION <u>Sharon KS, 2 mi North, 1.3 mi West,</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		North to house, West @ house, then North then West wire Gate					

CONTRACTOR Hardt  
TYPE OF JOB Production  
HOLE SIZE 7 7/8 T.D. 4803  
CASING SIZE 5 1/2 14# DEPTH 4764  
TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
PRES. MAX 1000 MINIMUM \_\_\_\_\_  
MEAS. LINE \_\_\_\_\_ SHOE JOINT 40  
CEMENT LEFT IN CSG. 40'  
PERFS. \_\_\_\_\_  
DISPLACEMENT 115 BBL, 2% KCL H<sub>2</sub>O

OWNER R+B Oil + Gas  
CEMENT  
AMOUNT ORDERED 55x60:40:4% Gcl + 4% SMS, 150<sup>cc</sup> Class II + 10% Sulf + 5# Kolseal, 14 Gal KCL, 12 BBL ASF

EQUIPMENT  
PUMP TRUCK CEMENTER Jason Thinesch  
# 548/545 HELPER Justin Bowers  
BULK TRUCK  
# 21/290 DRIVER Ken Jack  
BULK TRUCK  
# \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON <u>H 150 sv</u>	@ <u>27.24</u>	<u>4086.00</u>
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
<u>60:40:4 55 sv</u>	@ <u>18.92</u>	<u>1040.60</u>
<u>Kolseal 750<sup>cc</sup></u>	@ <u>.98</u>	<u>735.00</u>
<u>Salt 750<sup>cc</sup></u>	@ <u>.68</u>	<u>510.00</u>
<u>KCL 14 Gals</u>	@ <u>34.40</u>	<u>481.60</u>
<u>ASF 12 Bbls</u>	@ <u>58.70</u>	<u>704.40</u>

REMARKS:  
  
  
  
  
  
  
  
  
  
CHARGE TO: R+B Oil + Gas  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_  
MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
25% = 1889.40 TOTAL 7557.60

SERVICE  
DEPTH OF JOB 4764  
PUMP TRUCK CHARGE 2765.75  
EXTRA FOOTAGE 60 25 @ 4.40 110.00  
MILEAGE 25 @ 7.70 192.50  
MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_ 215.00  
Handling 234.71 @ 2.48 582.08  
Drayage 256.72 @ 2.75 705.98  
20% = 962.26 TOTAL 4631.31

PLUG & FLOAT EQUIPMENT  
5 1/2  
Rubber Plug 1 @ 85.00  
Res Guide Shoe 1 @ 281.00  
APU insert 1 @ 335.00  
Part Collar 1 @ 3590.00  
Barlock 1 @ 395.00  
Centralizers 8 @ 57.00 456.00  
TOTAL 5142.00

To: Allied Oil & Gas Services, LLC.  
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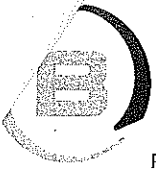
SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 17,330.91  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
Net 14,515.24

PRINTED NAME TIM PIERCE  
SIGNATURE Tim Pierce

Job Cancelled

FIELD SERVICE TICKET

1718 11016 A



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>7-14-2014</u> DISTRICT <u>Posol, KS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>R &amp; B Oil &amp; Gas, Inc</u>		LEASE <u>Dons</u>		WELL NO. <u>A1</u>						
ADDRESS		COUNTY <u>Butler</u>		STATE <u>KS</u>						
CITY		STATE		SERVICE CREW <u>Darin, Ed</u>						
AUTHORIZED BY		JOB TYPE: <u>CNW/ Port Collor</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>27283</u>		<u>27463</u>	<u>3/4</u>				<u>7-14</u>			<u>12:30</u>
<u>19889</u>						ARRIVED AT JOB	<u>7-14</u>			<u>3:00</u>
<u>19843</u>		<u>70959</u>	<u>3/4</u>			START OPERATION	<u>7-14</u>			<u>1000</u>
<u>19959</u>		<u>19918</u>	<u>1/4</u>			FINISH OPERATION	<u>7-14</u>			<u>1045</u>
<u>73768</u>						RELEASED	<u>7-14</u>			<u>11:30</u>
		<u>19907</u>				MILES FROM STATION TO WELL				<u>45</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	75		1,275.00
CC102	Cellulose	Lb	19		70.30
CC111	Sgt	Lb	381		190.50
CC115	C-44	Lb	71		365.65
E100	Unit Mileage Charge - Pickup	mi.	45		191.25
E101	Heavy Equipment - Mileage	mi.	90		630.00
E113	Bulk Delivery	T/M	160		351.45
CE203	Depth Charge (700) - 900'	thrs	1		1800.00
CE240	Blending & Mixing Service Charge	SK	75		105.00
SC03	Service Supervisor, First 8 hrs on loc.	ES	1		175.00
E100	PICKUP MILEAGE	mi.	45		191.25
E101	TRUCK MILEAGE	mi.	90		630.00

SUB TOTAL 4601.00

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	<u>0%</u>	
MATERIALS	%TAX ON \$	<u>0%</u>	
TOTAL			

SERVICE REPRESENTATIVE Darin Edwards

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 11016 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 7/16/2014 DISTRICT: Dickinson		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:	
CUSTOMER: R & B Oil Service		LEASE: Deano WELL NO.:	
ADDRESS:		COUNTY: Brown STATE: OK	
CITY: STATE:		SERVICE CREW: Deano	
AUTHORIZED BY:		JOB TYPE: Cement Plug Completion	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19959		70959	2/11			ARRIVED AT JOB	7/16			8:30
19959		70959	2/11			START OPERATION	7/16			11:00
19959		19918	1/4			FINISH OPERATION	7/16			11:45
19959						RELEASED	7/16			11:30
19959		19907				MILES FROM STATION TO WELL				4.5

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	PW2 Cement	SK	75		1,275.00
CC102	CEMENT	Lb	15		22.50
CC111	SS1	Lb	351		150.45
CC118	CEMENT	Lb	71		36.60
	Water	gal	15		75.00
E101	1/2" 20' x 24' x 12' concrete	sq ft	90		630.00
E117	Bulk Delivery	labor	160		9.60
CF243	Drain Service	hour	1		1,000.00
CF246	Blanket Service	hour	7		70.00
	Service	hour	1		175.00
E110	TRUCK HIRE FEE	hr	4.5		191.25
E111	TRUCK HIRE FEE	hr	7.0		230.00

SUB TOTAL 4601.06

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
<b>TOTAL</b>		

SERVICE REPRESENTATIVE Deano

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_

FIELD SERVICE ORDER NO. \_\_\_\_\_ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

Energy services, L.P.

## TREATMENT REPORT

Customer R & B Oil & Gas	Lease No.	Date 7-16-2014
Lease Dang	Well # A1	
Field Order # 1076	Station Peg + 1RS	Casing
Type Job CNW/Pack Coller	Formation	Depth
		County Baker
		State KS
		Legal Description 6-32-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
	2 7/8							5 Min.
Depth	Depth 2925	From	To	Pre Pad	Max			
Volume	Volume 17	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol. 46	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth 2929	From	To	Flush	Gas Volume			Total Load

Customer Representative Jeff CQR5	Station Manager Kevin Goldrey	Treater Darin Frsn Klw
--------------------------------------	----------------------------------	---------------------------

Service Units	27253	15885	15847	19959	73768	27463	70959-19918	1990
Driver Names	Darin	Ed	Ed	Asron	Asron	B.W.	RAY, COLEMAN	MC

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00pm					On location / Safety meeting 7/14
					Port collar - 2929'
					Job cancelled 7/14
0930					ON LOCATION 7/16/14
					FWI P.C. - 2920'
1000	1500		3	1	PSI TEST - 1500#
					OPEN P.C.
		500	4	2	INJECTION RATE - 2 BPM - 500#
					85% B.H. - DEAD
		300	20	2	MIX 75% AA2 CEMENT
		600	16	2	PUMP 16 bbl D/S P.
		400			CLOSE P.C.
		1500			PSI TEST 1500#
1045	300		24	2	RUN 5 IJS
					CDC WITH CLEAN
1130					JOB COMPLETE - KEVIN

# Timothy G. Pierce

## Petroleum Geologist

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

COMPANY R & B Oil and Gas, Inc.  
 LEASE Dana 'A' #1  
 FIELD Wildcat  
 LOCATION 370' FNL & 1485' FEL  
 SEC 6 TWSP 32S RGE 10W  
 COUNTY Barber STATE Kansas  
 CONTRACTOR Hardt Drilling Rig #1  
 SPUD 6-14-2014 COMP 6-26-2014  
 RTD 4801 LTD 4803  
 MUD UP 2920 TYPE MUD Chemical  
 SAMPLES SAVED FROM 2500 TO RTD  
 DRILLING TIME KEPT FROM 2500 TO RTD  
 SAMPLES EXAMINED FROM 2500 TO RTD  
 GEOLOGICAL SUPERVISION FROM 2445 to RTD  
 GEOLOGIST ON WELL Tim Pierce

#### ELEVATIONS

KB 1656'  
 DF \_\_\_\_\_  
 GL 1646'

Measurements Are All  
 From Kelly Bushing

#### CASING

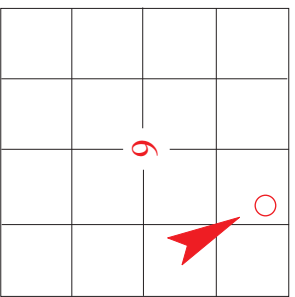
CONDUCTOR \_\_\_\_\_  
 SURFACE 8-5/8" at 250'  
 PRODUCTION 5-1/2" at 4774'

#### ELECTRICAL SURVEYS

Pioneer Energy Svcs.  
DIL / DUCP

#### FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
<u>Onaga Sh.</u>	<u>2621 (-965)</u>	<u>2621 (-965)</u>
<u>Heebner Sh.</u>	<u>3639 (-1983)</u>	<u>3639 (-1983)</u>
<u>Lansing</u>	<u>3816 (-2160)</u>	<u>3816 (-2160)</u>
<u>Stark Sh.</u>	<u>4227 (-2571)</u>	<u>4227 (-2571)</u>
<u>Cherokee Sh.</u>	<u>4451 (-2895)</u>	<u>4450 (-2894)</u>
<u>Mississippi</u>	<u>4469 (-2913)</u>	<u>4465 (-2909)</u>
<u>Chatanooga Sh..</u>	<u>4737 (-3081)</u>	<u>4735 (-3079)</u>
<u>Viola</u>	<u>4774 (-3118)</u>	<u>4774 (-3118)</u>




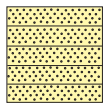
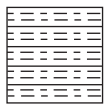

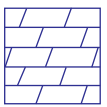
API # 15-007-24,186

REMARKS Samples, electric logs, and DST results indicate possible production from the Mississippi, therefore production casing was run to a depth of 4774'.  
A slight sample show was observed in the top of the Topeka which was not tested, this zone appears non commercial.  
Samples and DST indicated possible production from the Tarkio 'A' Sand, electric logs indicate possible production from the Tarkio 'B' sand at 2850'-2855', a gas kick was also recorded through this interval.  
A port collar was run in the production string in order to cement the two Tarkio sand zones at a later date.  
There were no other zones of interest indicated by samples or electric logs.

*Timothy G. Pierce*

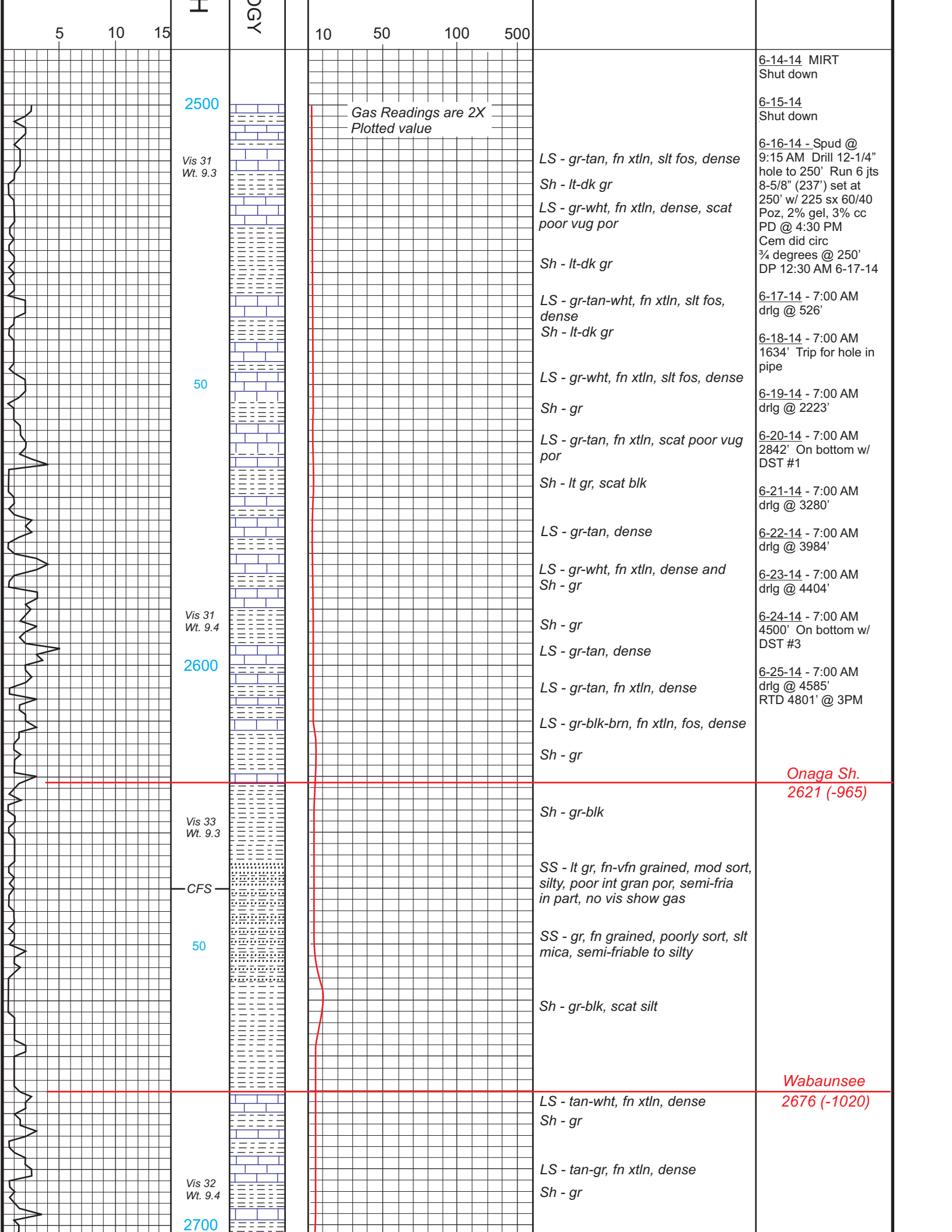
Timothy G. Pierce

### LEGEND

							
Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT <small>Rate of Penetration Decreases</small>	DEPTH	LITHOLOG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
↓					





5 10 15

H

GY

10 50 100 500

2500

Vis 31  
Wt. 9.3

Gas Readings are 2X  
Plotted value

LS - gr-tan, fn xtn, slt fos, dense  
Sh - lt-dk gr  
LS - gr-wht, fn xtn, dense, scat  
poor vug por  
Sh - lt-dk gr

6-14-14 MIRT  
Shut down  
6-15-14  
Shut down  
6-16-14 - Spud @  
9:15 AM Drill 12-1/4"  
hole to 250' Run 6 jts  
8-5/8" (237') set at  
250' w/ 225 sx 60/40  
Poz, 2% gel, 3% cc  
PD @ 4:30 PM  
Cem did circ  
3/4 degrees @ 250'  
DP 12:30 AM 6-17-14

50

Vis 31  
Wt. 9.4

LS - gr-tan-wht, fn xtn, slt fos,  
dense  
Sh - lt-dk gr

6-17-14 - 7:00 AM  
drlg @ 526'

LS - gr-wht, fn xtn, slt fos, dense  
Sh - gr

6-18-14 - 7:00 AM  
1634' Trip for hole in  
pipe

LS - gr-tan, fn xtn, scat poor vug  
por  
Sh - lt gr, scat blk

6-19-14 - 7:00 AM  
drlg @ 2223'

LS - gr-tan, dense

6-20-14 - 7:00 AM  
2842' On bottom w/  
DST #1

LS - gr-wht, fn xtn, dense and  
Sh - gr

6-21-14 - 7:00 AM  
drlg @ 3280'

Sh - gr

6-22-14 - 7:00 AM  
drlg @ 3984'

LS - gr-tan, dense

6-23-14 - 7:00 AM  
drlg @ 4404'

2600

Vis 33  
Wt. 9.3

LS - gr-tan, fn xtn, dense

6-24-14 - 7:00 AM  
4500' On bottom w/  
DST #3

LS - gr-blk-brn, fn xtn, fos, dense  
Sh - gr

6-25-14 - 7:00 AM  
drlg @ 4585'  
RTD 4801' @ 3PM

Onaga Sh.  
2621 (-965)

CFS

50

Sh - gr-blk

SS - lt gr, fn-vfn grained, mod sort,  
silty, poor int gran por, semi-fria  
in part, no vis show gas

SS - gr, fn grained, poorly sort, slt  
mica, semi-friable to silty

Sh - gr-blk, scat silt

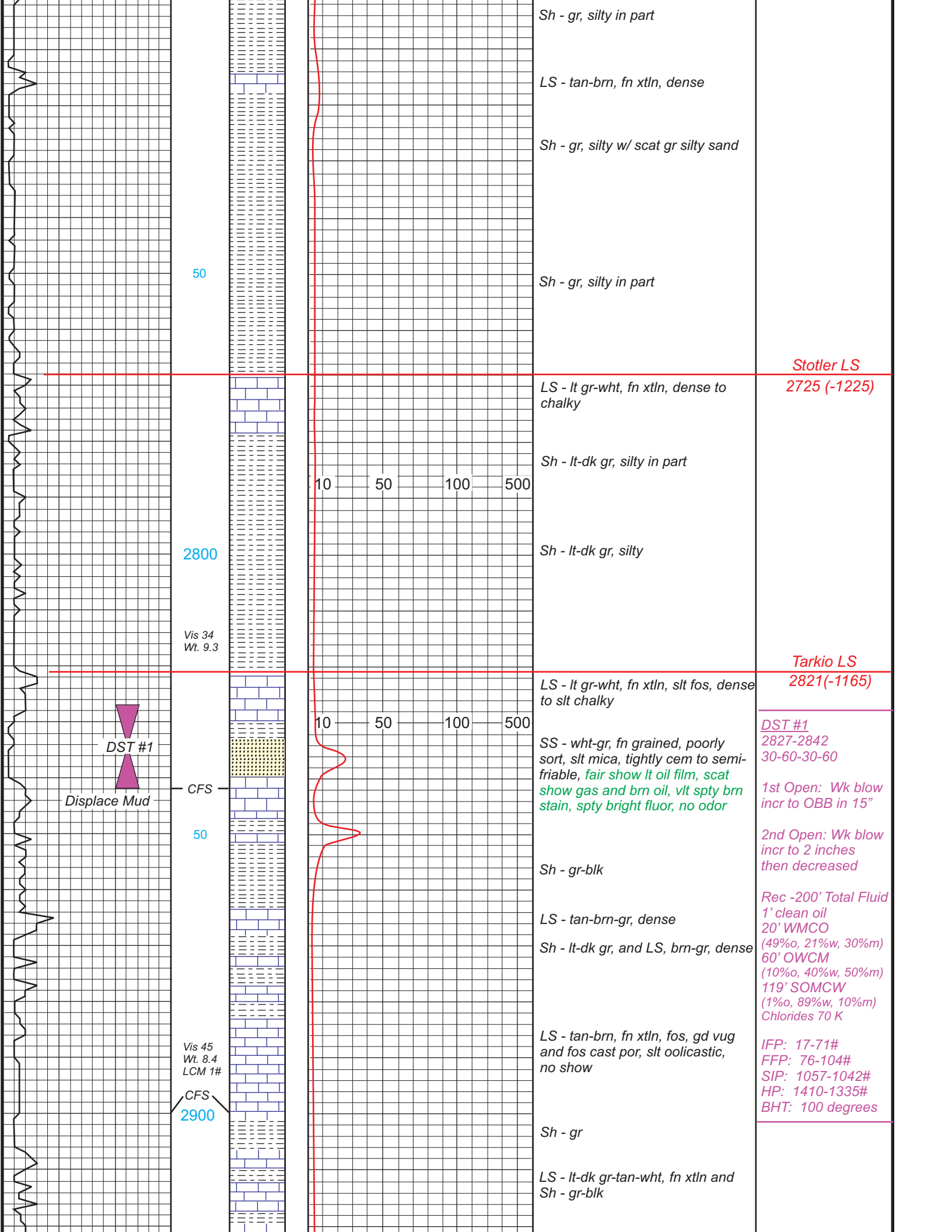
Wabaunsee  
2676 (-1020)

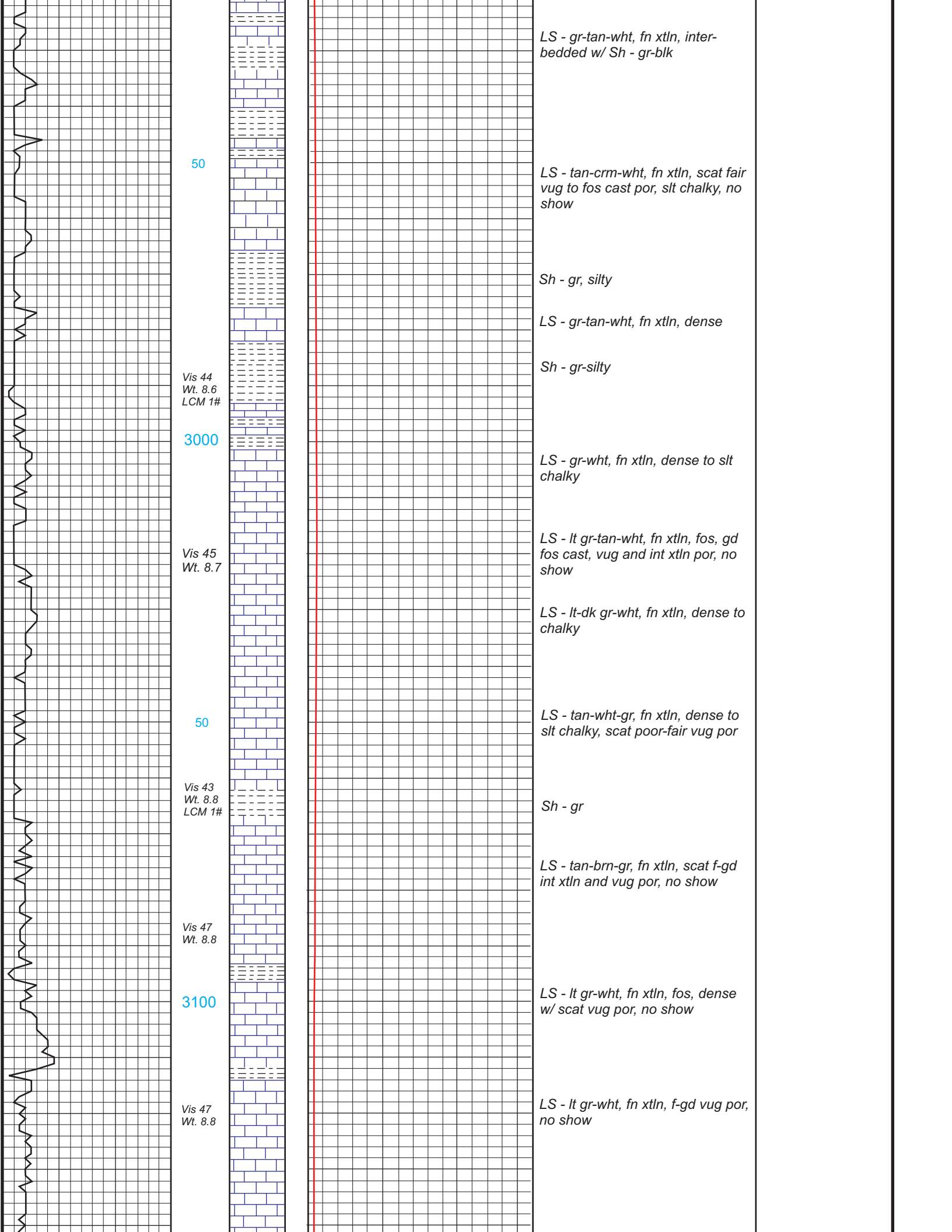
Vis 32  
Wt. 9.4

2700

LS - tan-wht, fn xtn, dense  
Sh - gr

LS - tan-gr, fn xtn, dense  
Sh - gr





*LS - gr-tan-wht, fn xtl, interbedded w/ Sh - gr-blk*

50

*LS - tan-crm-wht, fn xtl, scat fair vug to fos cast por, slt chalky, no show*

*Sh - gr, silty*

*LS - gr-tan-wht, fn xtl, dense*

*Sh - gr-silty*

Vis 44  
Wt. 8.6  
LCM 1#

3000

*LS - gr-wht, fn xtl, dense to slt chalky*

*LS - lt gr-tan-wht, fn xtl, fos, gd fos cast, vug and int xtl por, no show*

Vis 45  
Wt. 8.7

*LS - lt-dk gr-wht, fn xtl, dense to chalky*

50

*LS - tan-wht-gr, fn xtl, dense to slt chalky, scat poor-fair vug por*

Vis 43  
Wt. 8.8  
LCM 1#

*Sh - gr*

*LS - tan-brn-gr, fn xtl, scat f-gd int xtl and vug por, no show*

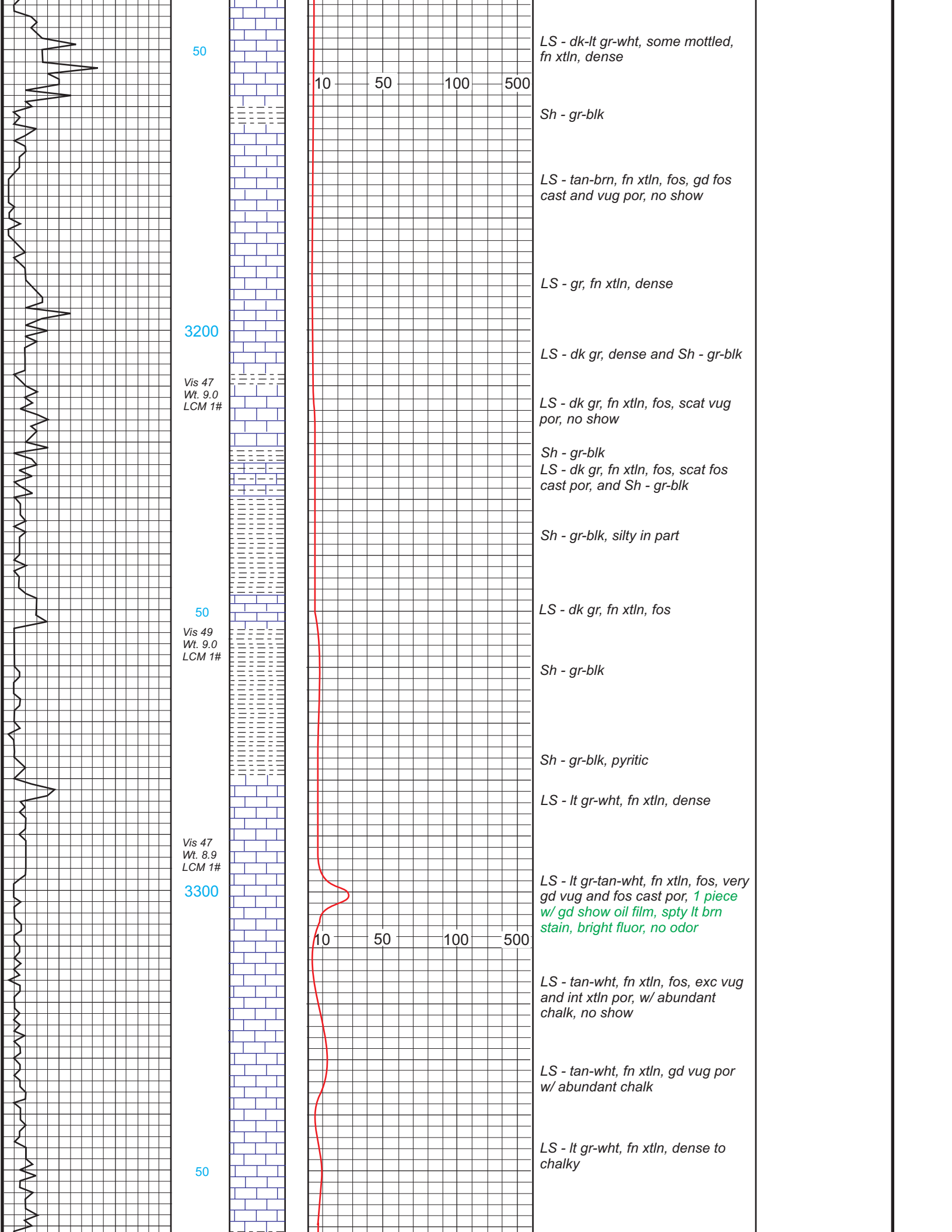
Vis 47  
Wt. 8.8

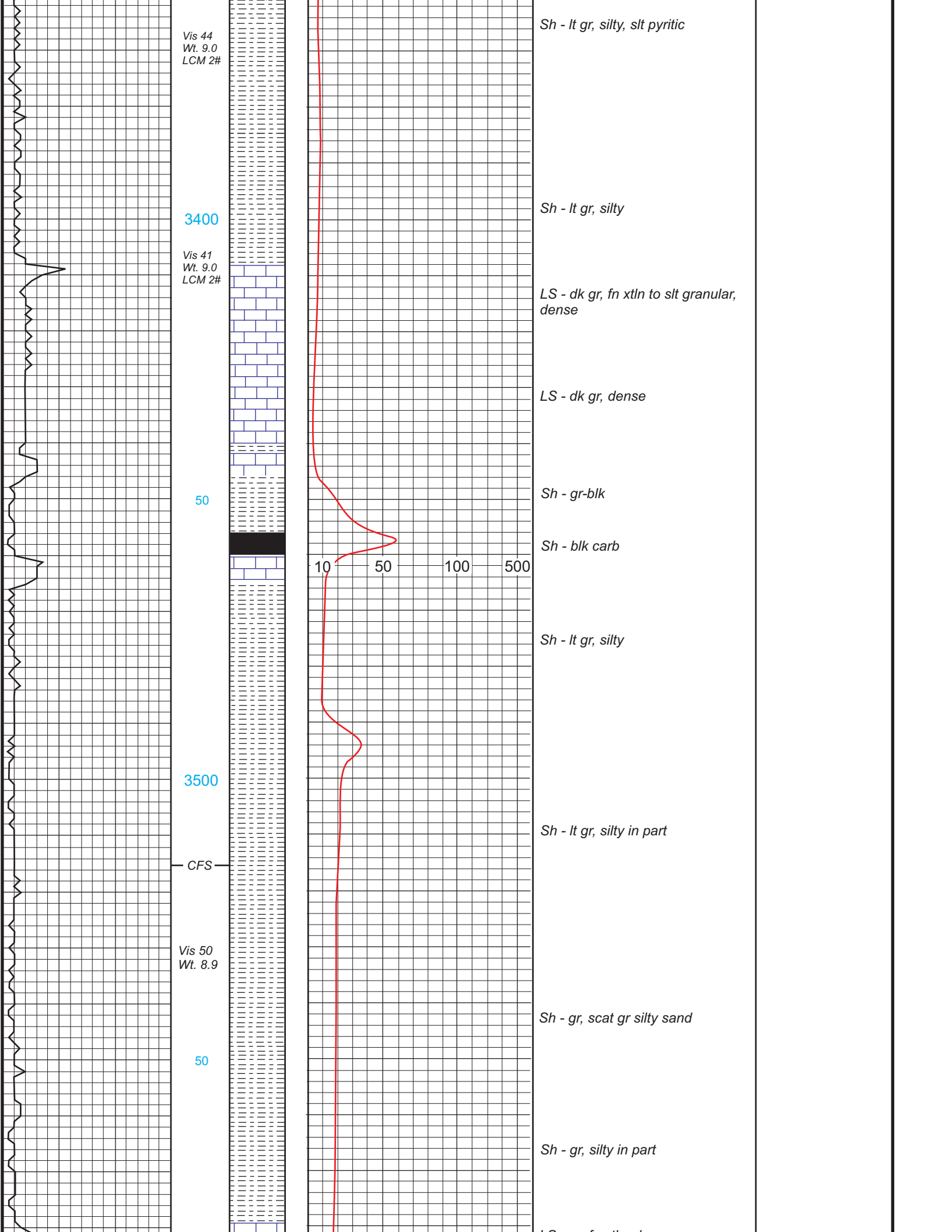
3100

*LS - lt gr-wht, fn xtl, fos, dense w/ scat vug por, no show*

Vis 47  
Wt. 8.8

*LS - lt gr-wht, fn xtl, f-gd vug por, no show*





Vis 44  
Wt. 9.0  
LCM 2#

Sh - lt gr, silty, slt pyritic

3400

Sh - lt gr, silty

Vis 41  
Wt. 9.0  
LCM 2#

LS - dk gr, fn xtln to slt granular,  
dense

LS - dk gr, dense

50

Sh - gr-blk

Sh - blk carb

10 50 100 500

Sh - lt gr, silty

3500

Sh - lt gr, silty in part

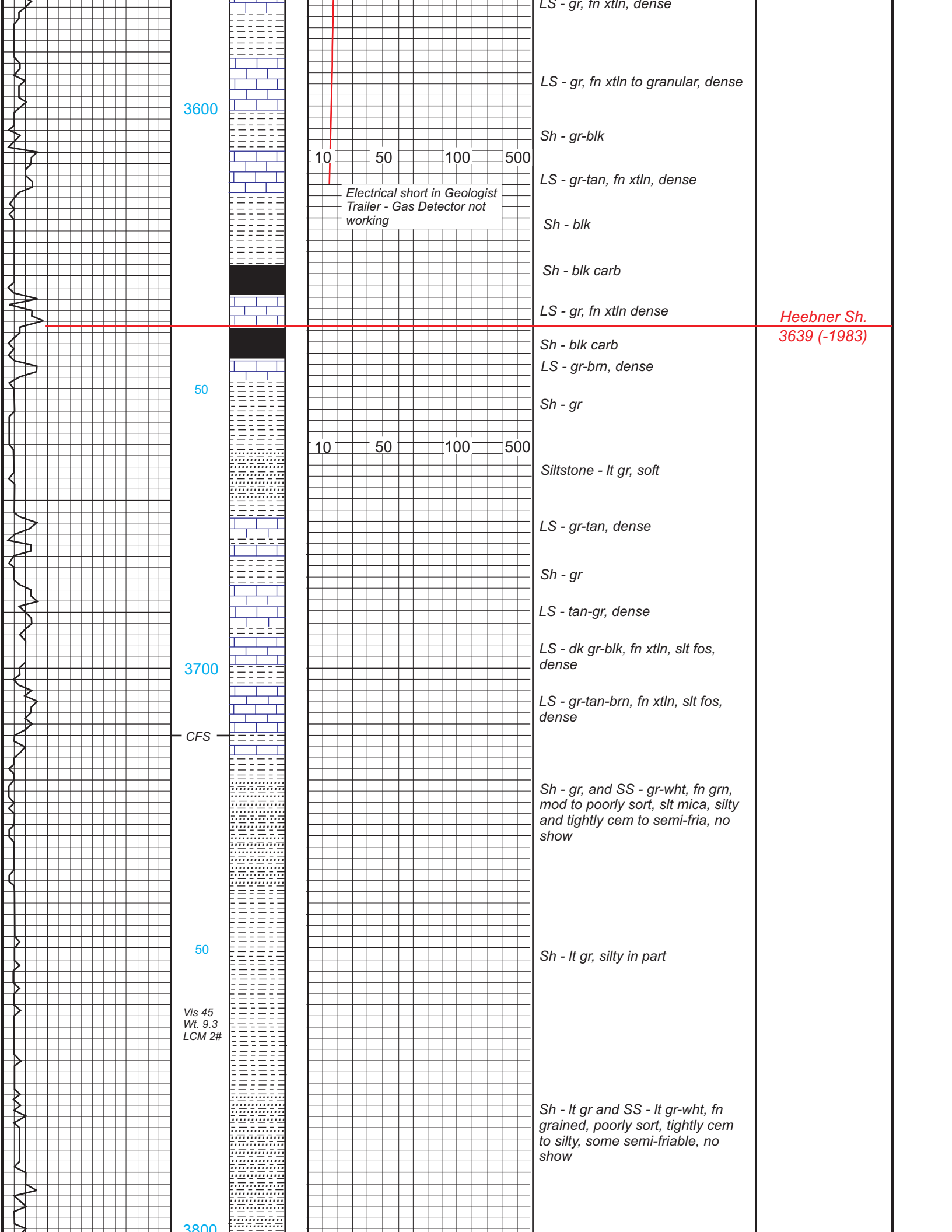
CFS

Vis 50  
Wt. 8.9

Sh - gr, scat gr silty sand

50

Sh - gr, silty in part



3600

LS - gr, fn xtl, dense

LS - gr, fn xtl to granular, dense

Sh - gr-blk

10 50 100 500

LS - gr-tan, fn xtl, dense

Electrical short in Geologist  
Trailer - Gas Detector not  
working

Sh - blk

Sh - blk carb

LS - gr, fn xtl, dense

Heebner Sh.  
3639 (-1983)

Sh - blk carb

LS - gr-brn, dense

50

Sh - gr

10 50 100 500

Siltstone - lt gr, soft

LS - gr-tan, dense

Sh - gr

LS - tan-gr, dense

LS - dk gr-blk, fn xtl, slt fos,  
dense

3700

LS - gr-tan-brn, fn xtl, slt fos,  
dense

CFS

Sh - gr, and SS - gr-wht, fn grn,  
mod to poorly sort, slt mica, silty  
and tightly cem to semi-fria, no  
show

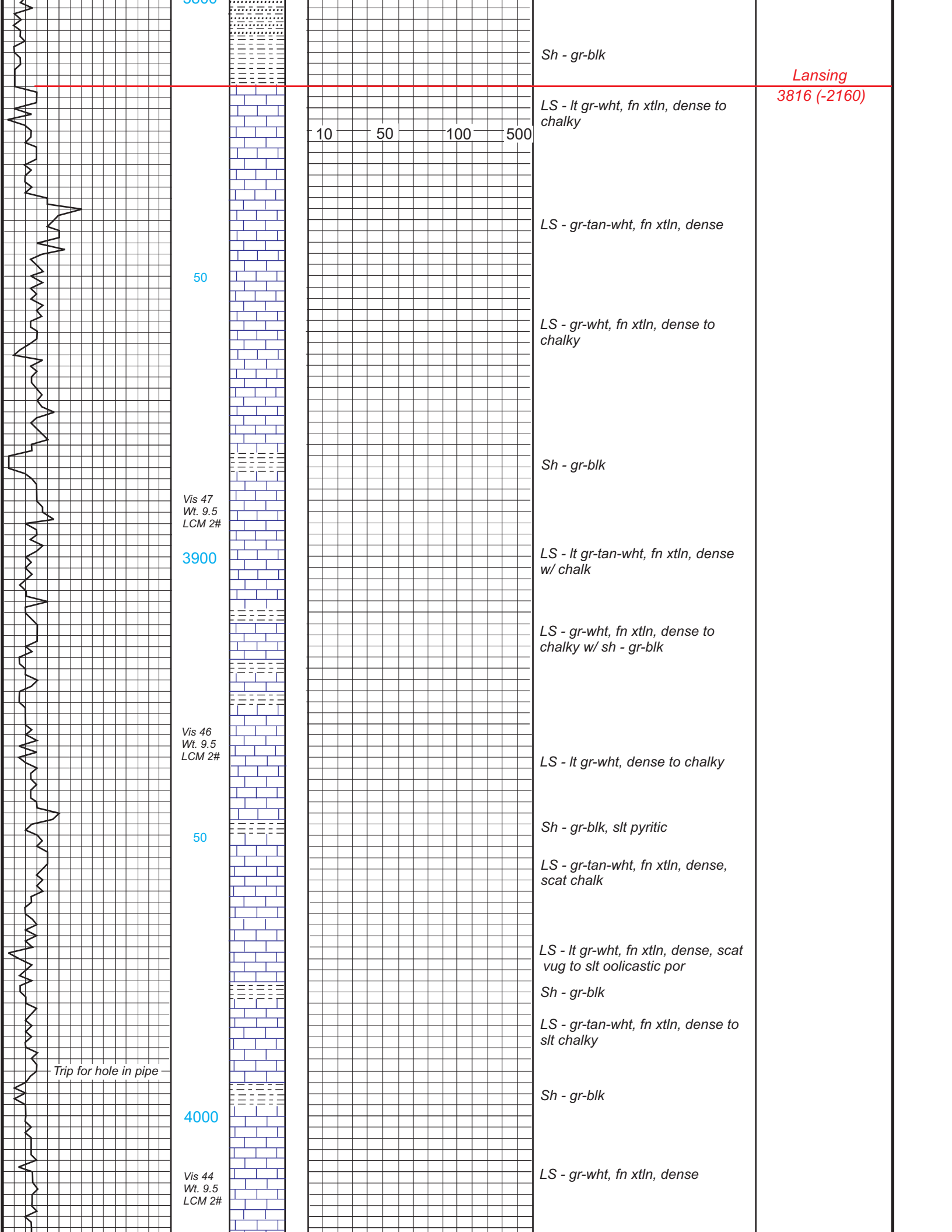
50

Sh - lt gr, silty in part

Vis 45  
Wt 9.3  
LCM 2#

Sh - lt gr and SS - lt gr-wht, fn  
grained, poorly sort, tightly cem  
to silty, some semi-friable, no  
show

3800



Sh - gr-blk

Lansing  
3816 (-2160)

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

10 50 100 500

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

50

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

Vis 47  
Wt. 9.5  
LCM 2#

Sh - gr-blk

3900

LS - lt gr-tan-wht, fn xtln, dense w/ chalk

LS - gr-wht, fn xtln, dense to chalky w/ sh - gr-blk

Vis 46  
Wt. 9.5  
LCM 2#

LS - lt gr-wht, dense to chalky

50

Sh - gr-blk, slt pyritic

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

LS - lt gr-wht, fn xtln, dense, scat vug to slt oolitic por

Sh - gr-blk

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

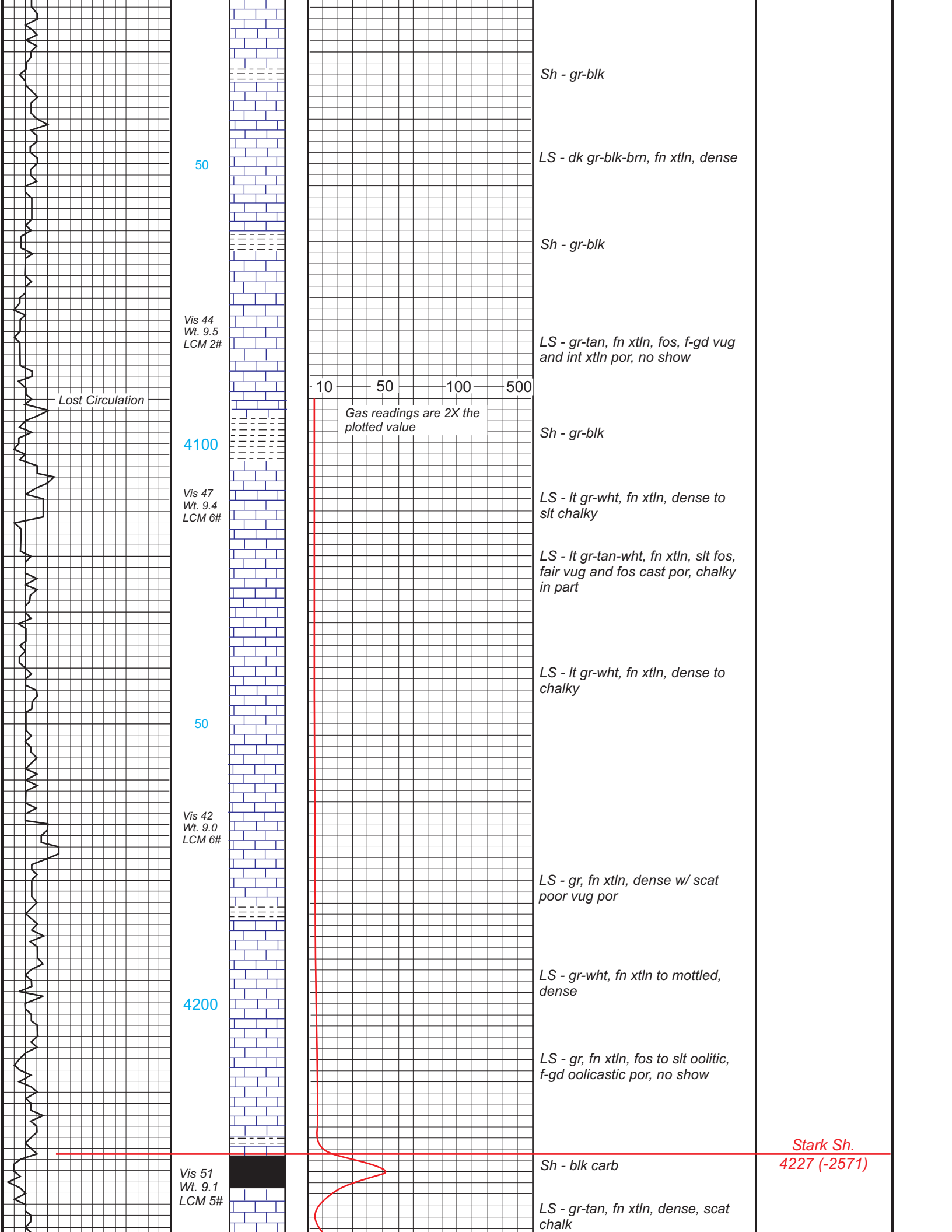
Trip for hole in pipe

4000

Sh - gr-blk

Vis 44  
Wt. 9.5  
LCM 2#

LS - gr-wht, fn xtln, dense



Sh - gr-blk

50

LS - dk gr-blk-brn, fn xtl, dense

Sh - gr-blk

Vis 44  
Wt. 9.5  
LCM 2#

LS - gr-tan, fn xtl, fos, f-gd vug and int xtl por, no show

Lost Circulation

10 50 100 500

Gas readings are 2X the plotted value

4100

Sh - gr-blk

Vis 47  
Wt. 9.4  
LCM 6#

LS - lt gr-wht, fn xtl, dense to slt chalky

LS - lt gr-tan-wht, fn xtl, slt fos, fair vug and fos cast por, chalky in part

LS - lt gr-wht, fn xtl, dense to chalky

50

Vis 42  
Wt. 9.0  
LCM 6#

LS - gr, fn xtl, dense w/ scat poor vug por

4200

LS - gr-wht, fn xtl to mottled, dense

LS - gr, fn xtl, fos to slt oolitic, f-gd oolitic por, no show

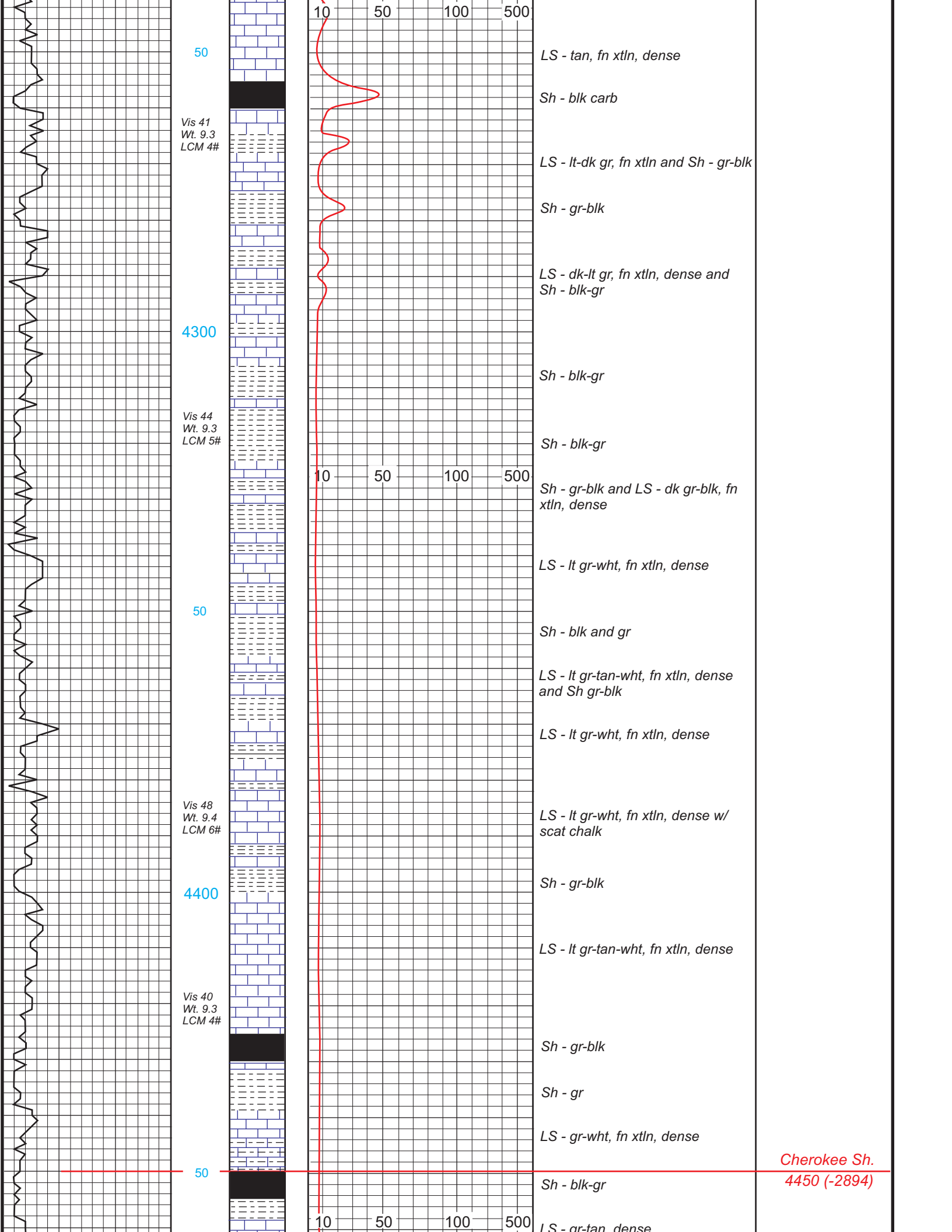
Vis 51  
Wt. 9.1  
LCM 5#

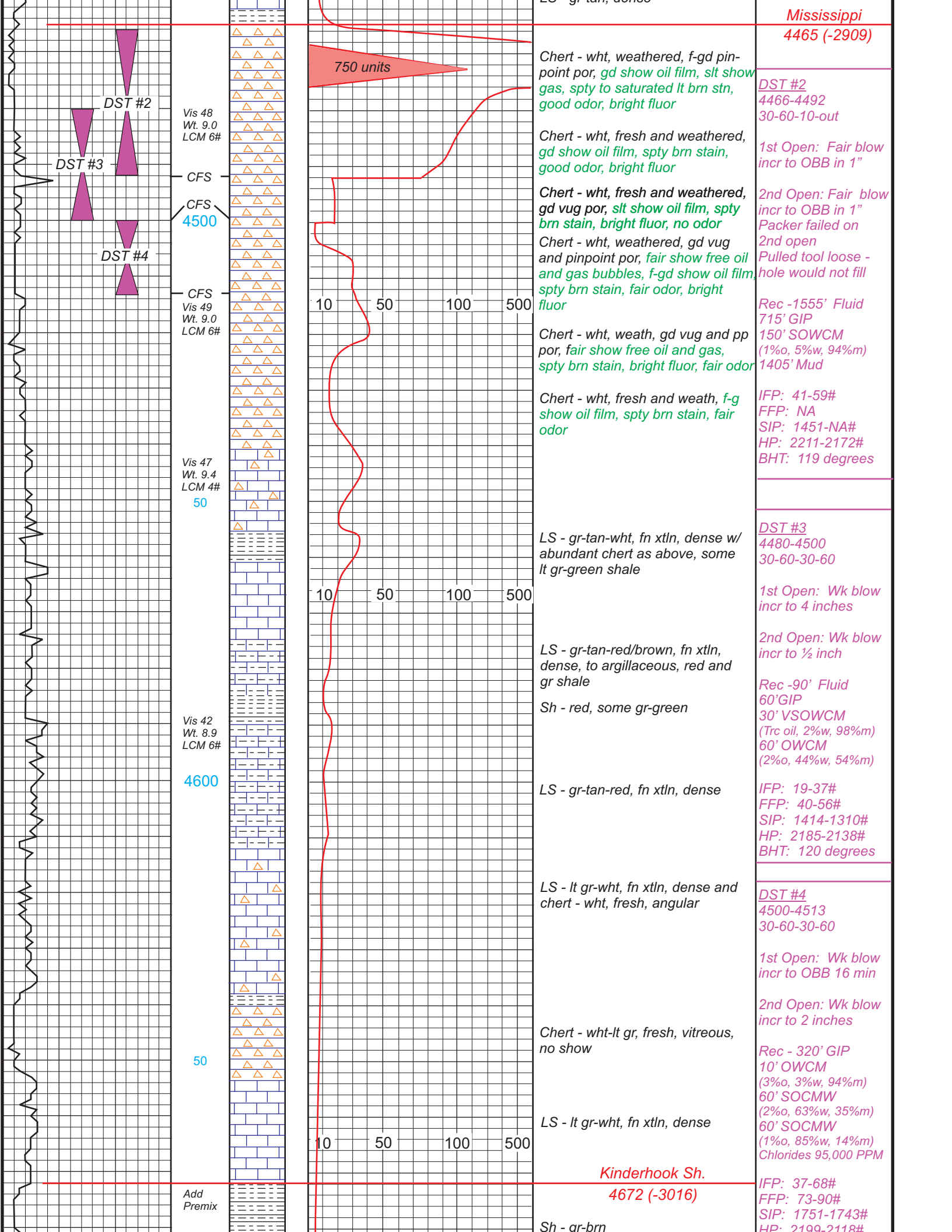
Sh - blk carb

Stark Sh.  
4227 (-2571)

LS - gr-tan, fn xtl, dense, scat chalk







Mississippi  
4465 (-2909)

750 units

Chert - wht, weathered, f-gd pin-point por, gd show oil film, slt show gas, spty to saturated lt brn stn, good odor, bright fluor

DST #2  
4466-4492  
30-60-10-out

Chert - wht, fresh and weathered, gd show oil film, spty brn stain, good odor, bright fluor

1st Open: Fair blow incr to OBB in 1"

Chert - wht, fresh and weathered, gd vug por, slt show oil film, spty brn stain, bright fluor, no odor

2nd Open: Fair blow incr to OBB in 1"  
Packer failed on 2nd open

Chert - wht, weathered, gd vug and pinpoint por, fair show free oil and gas bubbles, f-gd show oil film, spty brn stain, fair odor, bright fluor

Pulled tool loose - hole would not fill

Rec -1555' Fluid 715' GIP  
150' SOWCM (1%o, 5%w, 94%*m*)  
1405' Mud

Chert - wht, weath, gd vug and pp por, fair show free oil and gas, spty brn stain, bright fluor, fair odor

IFP: 41-59#  
FFP: NA  
SIP: 1451-NA#  
HP: 2211-2172#  
BHT: 119 degrees

Chert - wht, fresh and weath, f-g show oil film, spty brn stain, fair odor

Vis 48  
Wt. 9.0  
LCM 6#

CFS  
CFS  
4500

Vis 49  
Wt. 9.0  
LCM 6#

Vis 47  
Wt. 9.4  
LCM 4#  
50

Vis 42  
Wt. 8.9  
LCM 6#  
4600

50

Add Premix

LS - gr-tan-wht, fn xtl, dense w/ abundant chert as above, some lt gr-green shale

DST #3  
4480-4500  
30-60-30-60

LS - gr-tan-red/brown, fn xtl, dense, to argillaceous, red and gr shale

1st Open: Wk blow incr to 4 inches

Sh - red, some gr-green

2nd Open: Wk blow incr to 1/2 inch

Rec -90' Fluid 60' GIP  
30' VSOWCM (Trc oil, 2%w, 98%*m*)  
60' OWCM (2%o, 44%w, 54%*m*)

LS - gr-tan-red, fn xtl, dense

IFP: 19-37#  
FFP: 40-56#  
SIP: 1414-1310#  
HP: 2185-2138#  
BHT: 120 degrees

LS - lt gr-wht, fn xtl, dense and chert - wht, fresh, angular

DST #4  
4500-4513  
30-60-30-60

Chert - wht-lt gr, fresh, vitreous, no show

1st Open: Wk blow incr to OBB 16 min

2nd Open: Wk blow incr to 2 inches

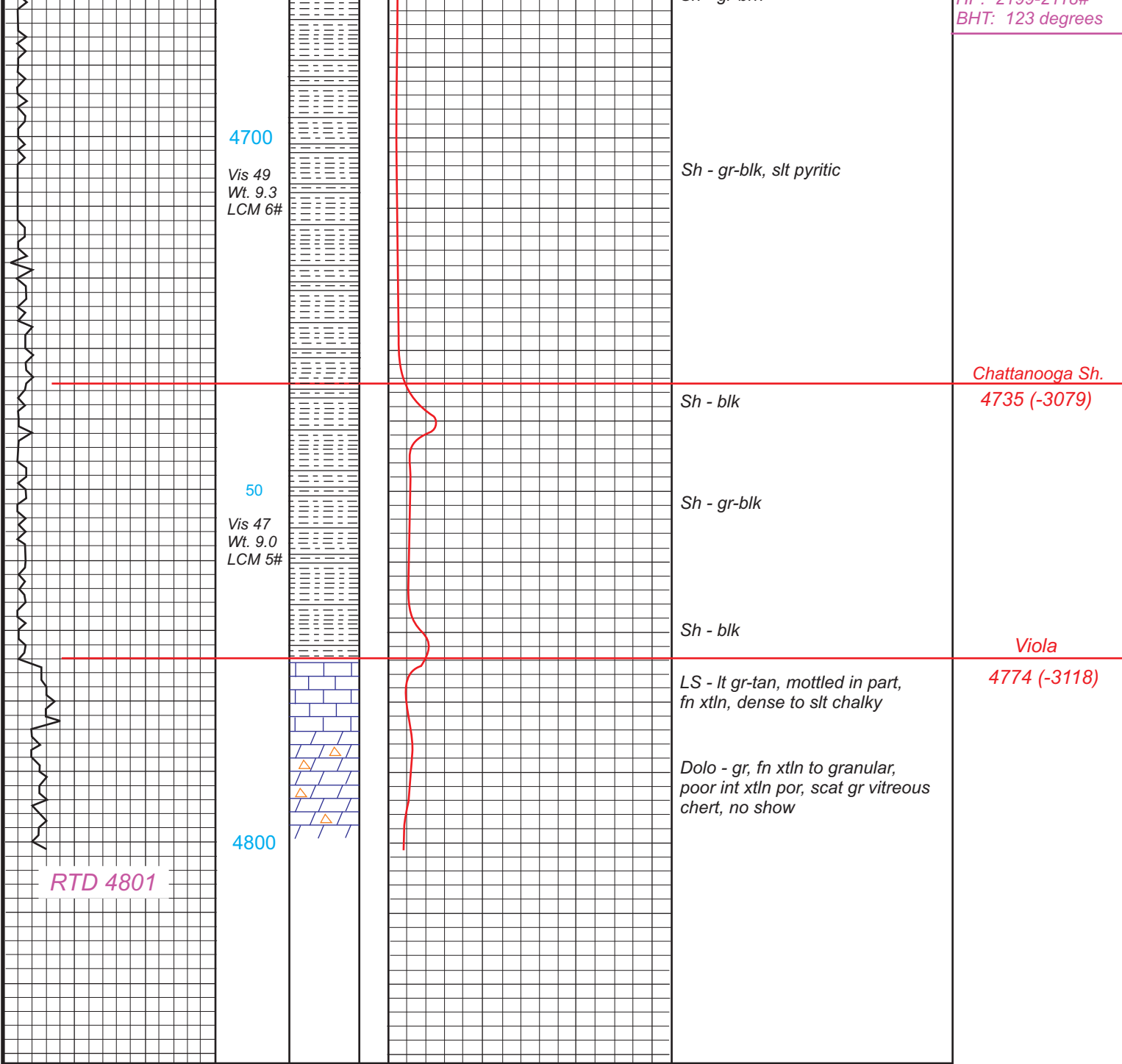
Rec - 320' GIP  
10' OWCM (3%o, 3%w, 94%*m*)  
60' SOCMW (2%o, 63%w, 35%*m*)  
60' SOCMW (1%o, 85%w, 14%*m*)  
Chlorides 95,000 PPM

LS - lt gr-wht, fn xtl, dense

Kinderhook Sh.  
4672 (-3016)

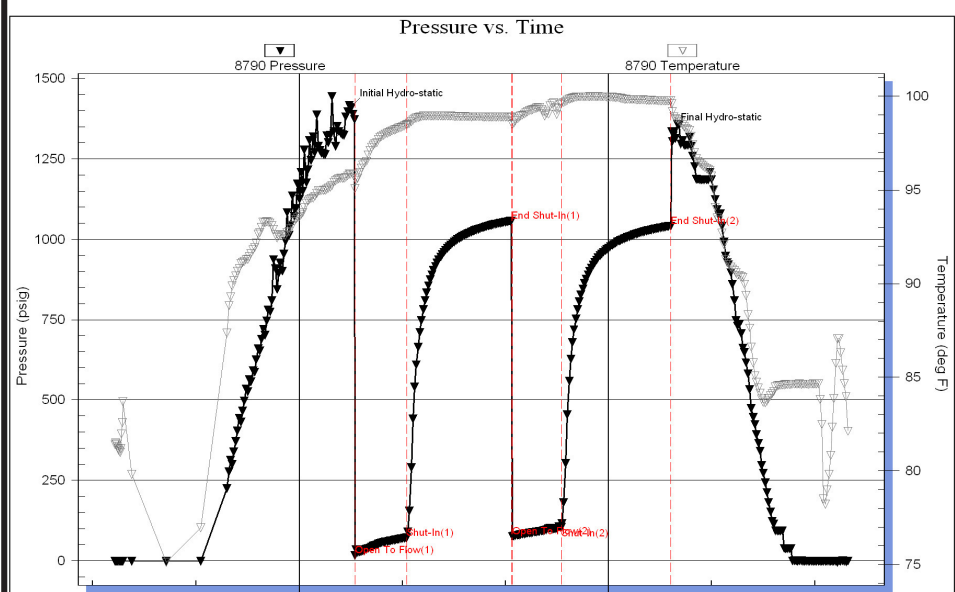
IFP: 37-68#  
FFP: 73-90#  
SIP: 1751-1743#  
HP: 2199, 2118#

Sh - ar-brn



RTD 4801

Serial #: 8790    Outside    R & B Oil & Gas, Inc.    Dana A - 1    DST Test Number: 1



DST #1  
2827-2842  
30-60-30-60

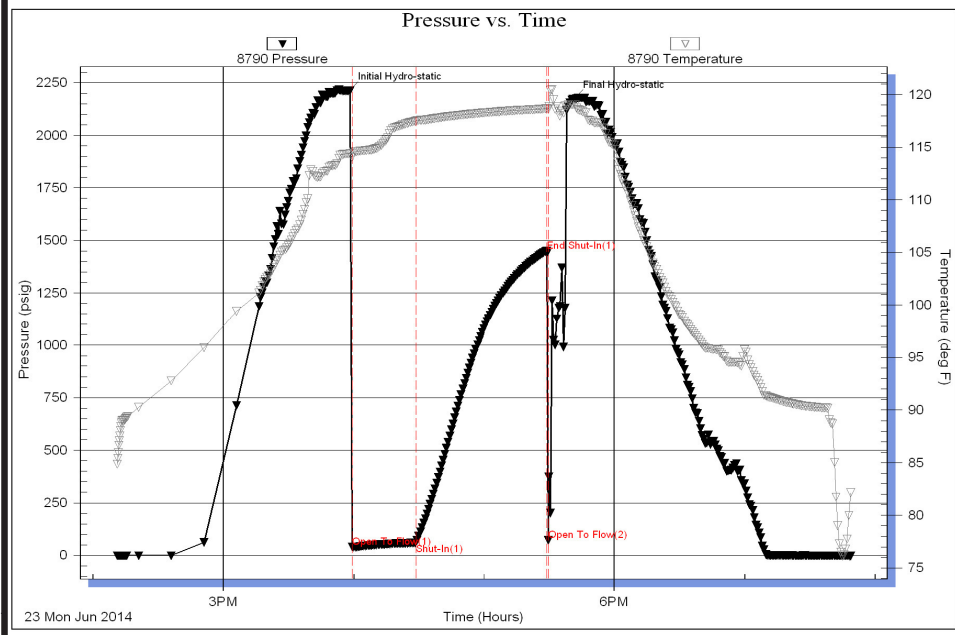
1st Open: Wk blow  
incr to OBB in 15"

2nd Open: Wk blow  
incr to 2 inches  
then decreased

Rec -200' Total Fluid  
1' clean oil  
20' WMCO  
(49%o, 21%w, 30%m)  
60' OWCM  
(10%o, 40%w, 50%m)  
119' SOMCW  
(1%o, 89%w, 10%m)  
Chlorides 70 K

IFP: 17-71#  
FFP: 76-104#

Serial #: 8790 Outside R & B Oil & Gas, Inc. Dana A - 1 DST Test Number: 2



**DST #2**  
4466-4492  
30-60-10-out

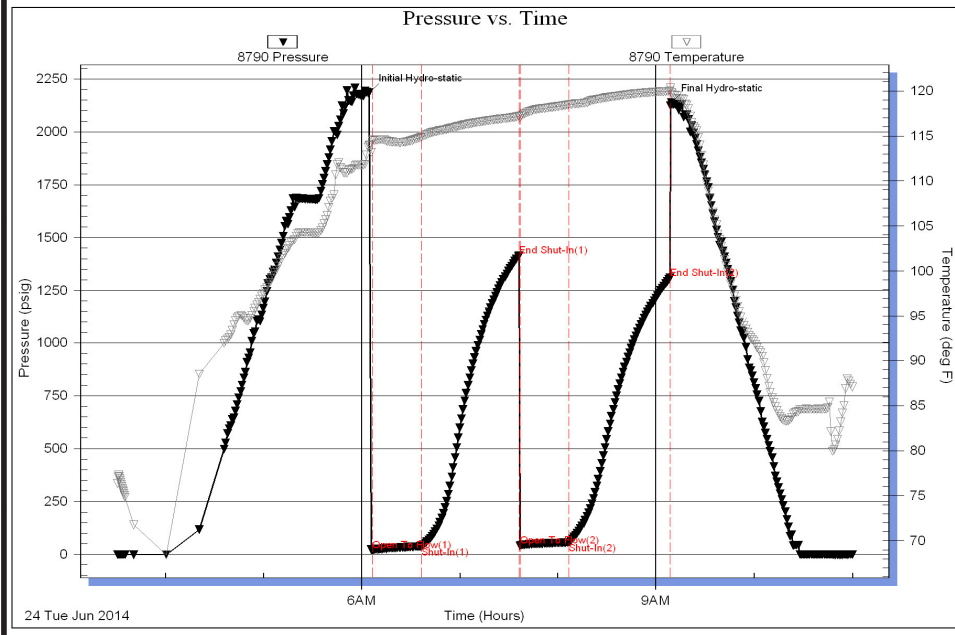
1st Open: Fair blow  
incr to OBB in 1"

2nd Open: Fair blow  
incr to OBB in 1"  
Packer failed on  
2nd open  
Pulled tool loose -  
hole would not fill

Rec -1555' Fluid  
715' GIP  
150' SOWCM  
(1%o, 5%w, 94%m)  
1405' Mud

IFP: 41-59#  
FFP: NA  
SIP: 1451-NA#  
HP: 2211-2172#  
BHT: 119 degrees

Serial #: 8790 Outside R & B Oil & Gas, Inc. Dana A - 1 DST Test Number: 3



**DST #3**  
4480-4500  
30-60-30-60

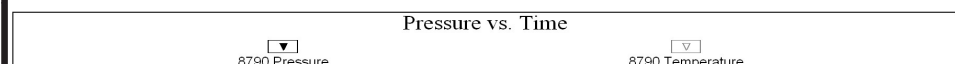
1st Open: Wk blow  
incr to 4 inches

2nd Open: Wk blow  
incr to 1/2 inch

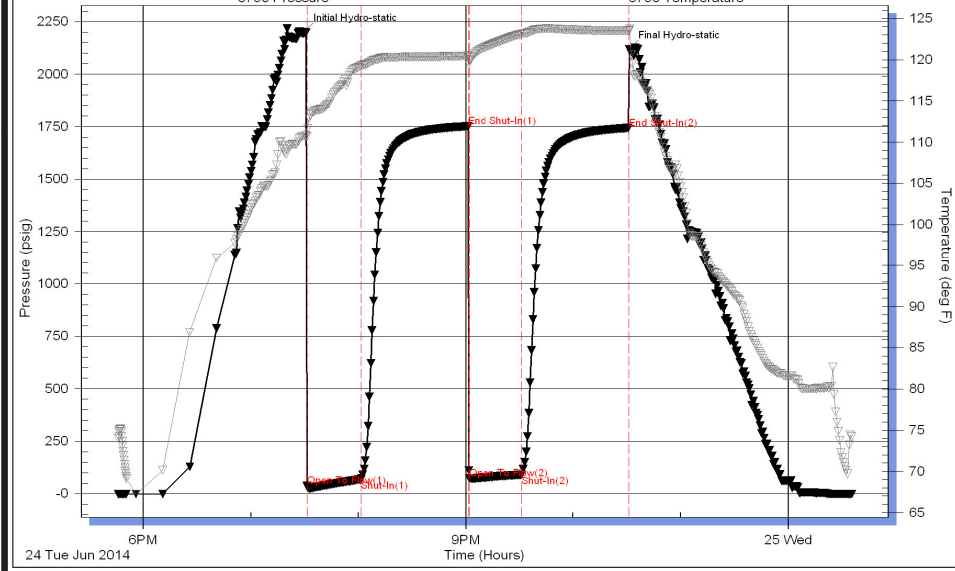
Rec -90' Fluid  
60' GIP  
30' VSOWCM  
(Trc oil, 2%w, 98%m)  
60' OWCM  
(2%o, 44%w, 54%m)

IFP: 19-37#  
FFP: 40-56#  
SIP: 1414-1310#  
HP: 2185-2138#  
BHT: 120 degrees

Serial #: 8790 Outside R & B Oil & Gas, Inc. Dana A - 1 DST Test Number: 4



**DST #4**  
4500-4513



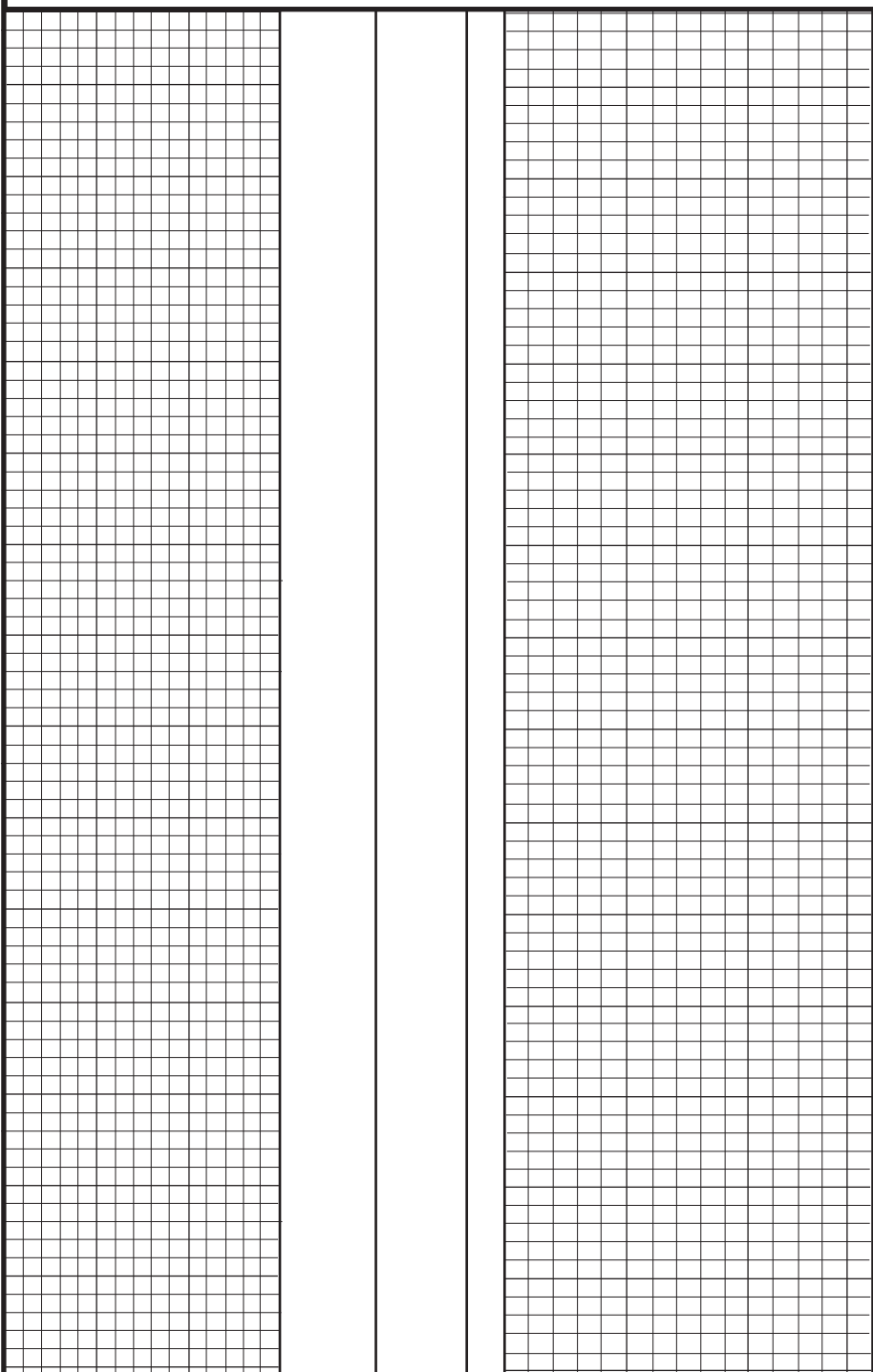
4300-4313  
30-60-30-60

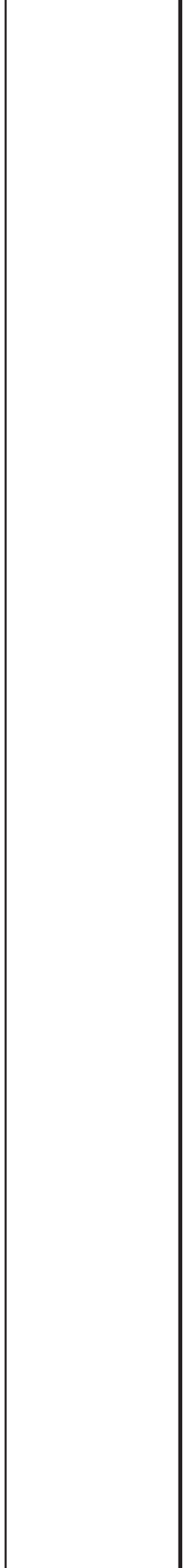
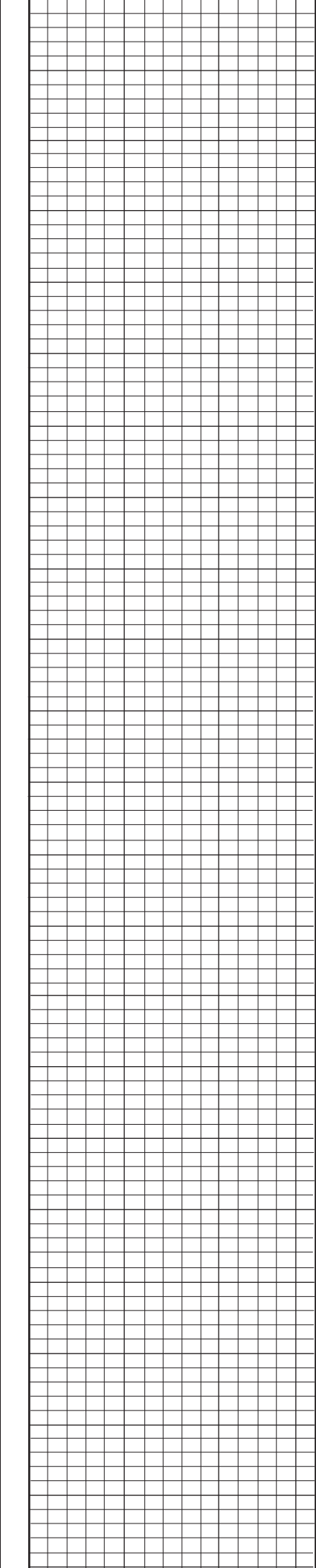
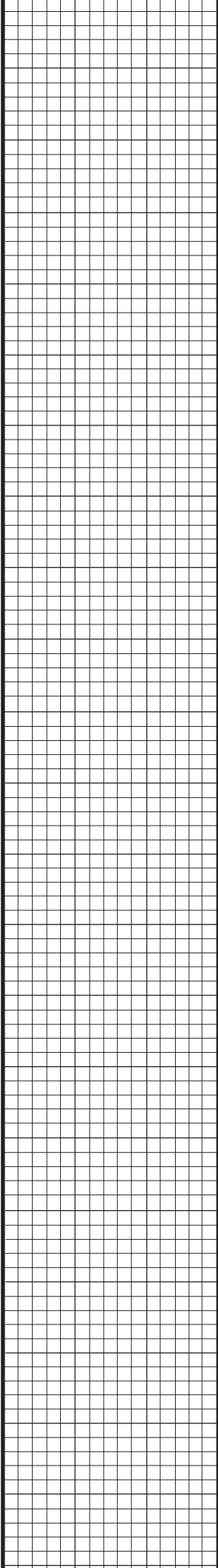
1st Open: Wk blow  
incr to OBB 16 min

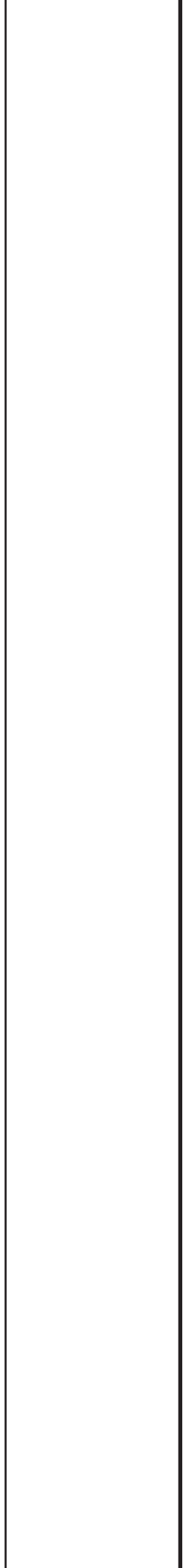
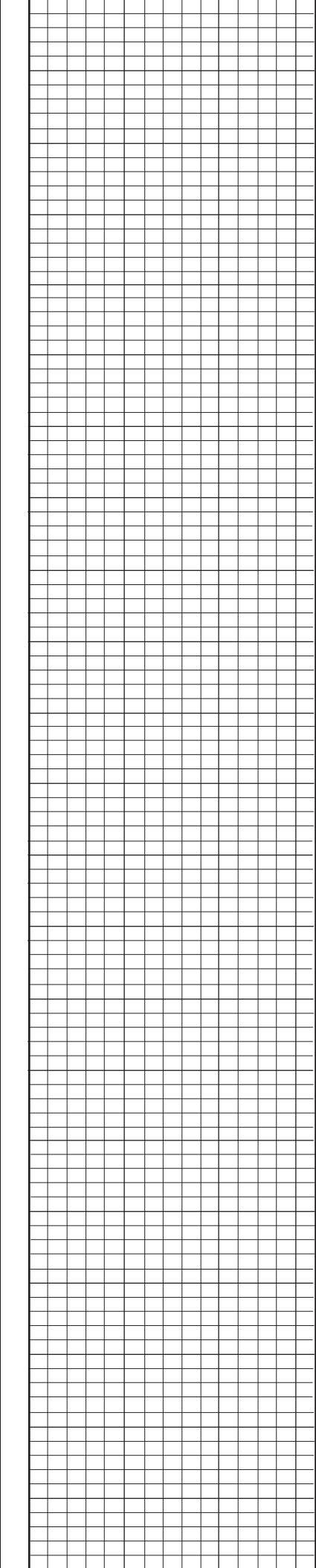
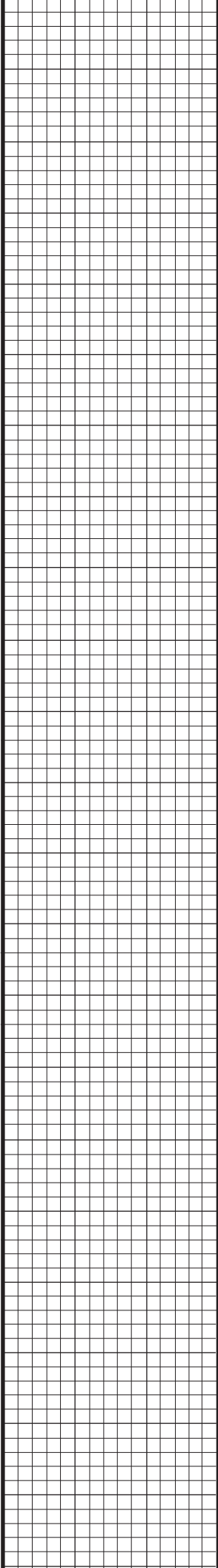
2nd Open: Wk blow  
incr to 2 inches

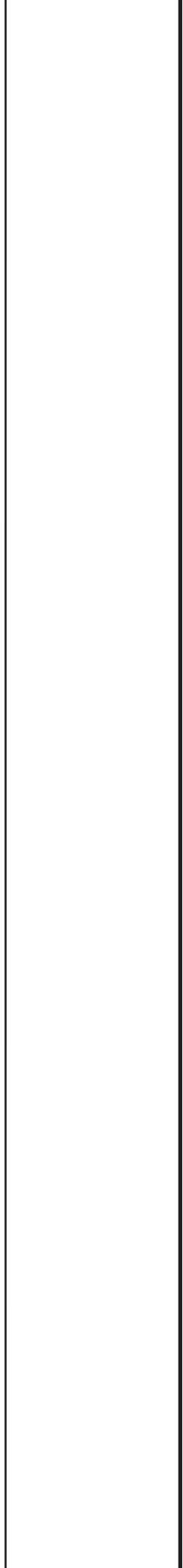
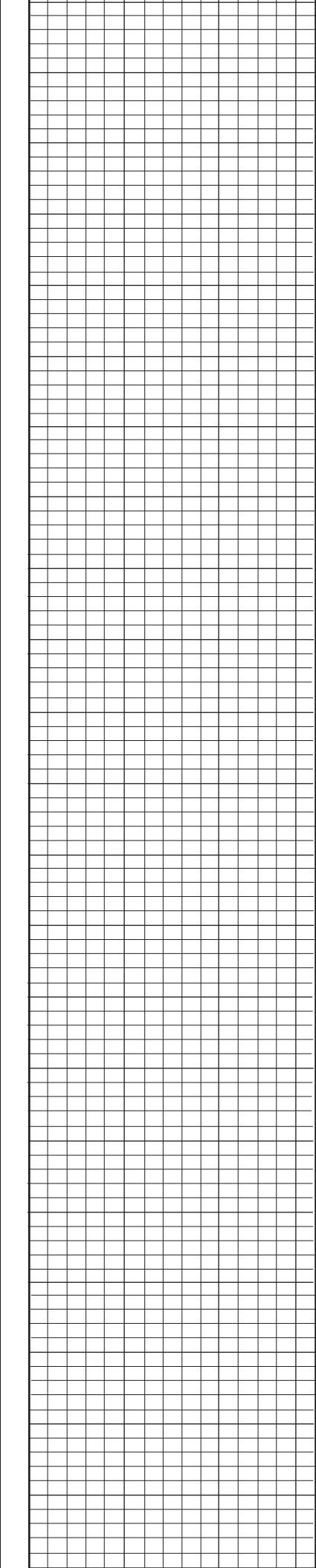
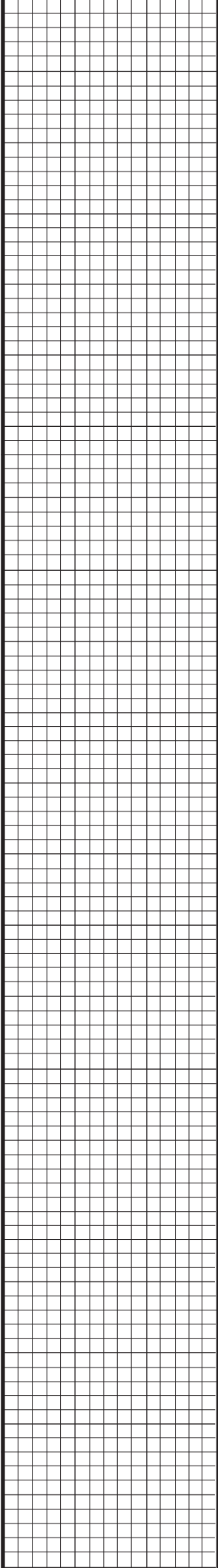
Rec - 320' GIP  
10' OWCM  
(3%o, 3%w, 94%m)  
60' SOCMW  
(2%o, 63%w, 35%m)  
60' SOCMW  
(1%o, 85%w, 14%m)  
Chlorides 95,000 PPM

IFP: 37-68#  
FFP: 73-90#  
SIP: 1751-1743#  
HP: 2199-2118#  
BHT: 123 degrees

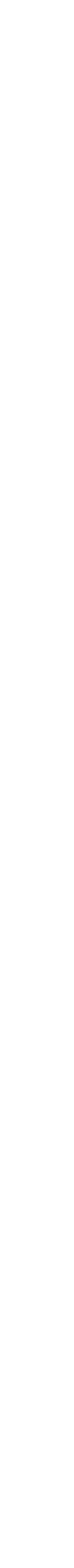
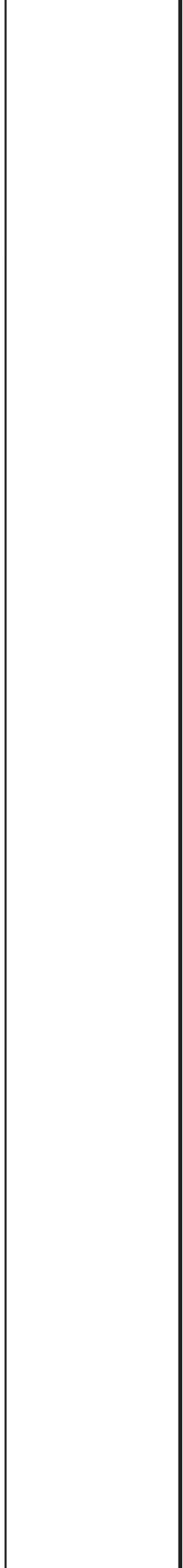
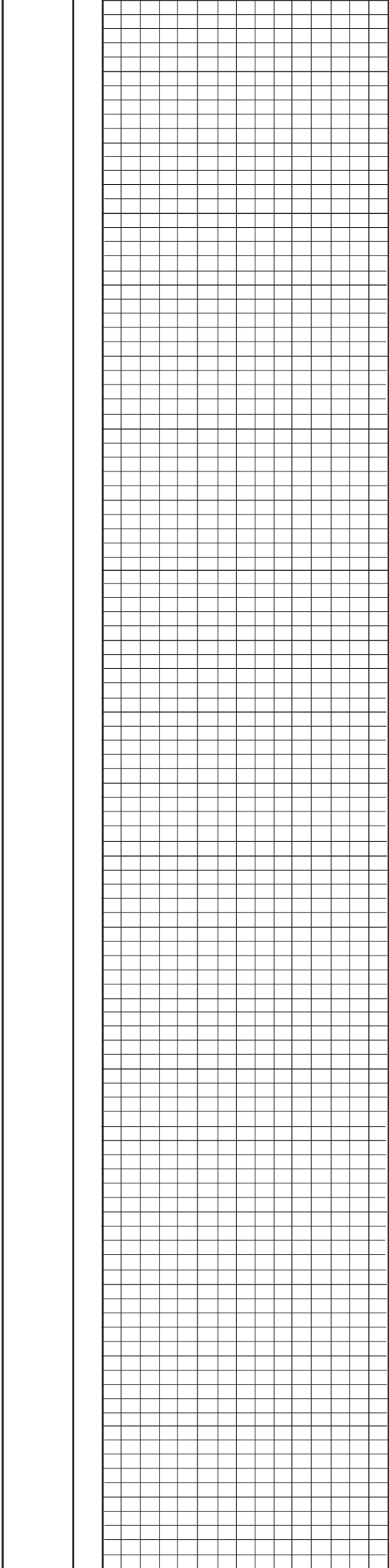
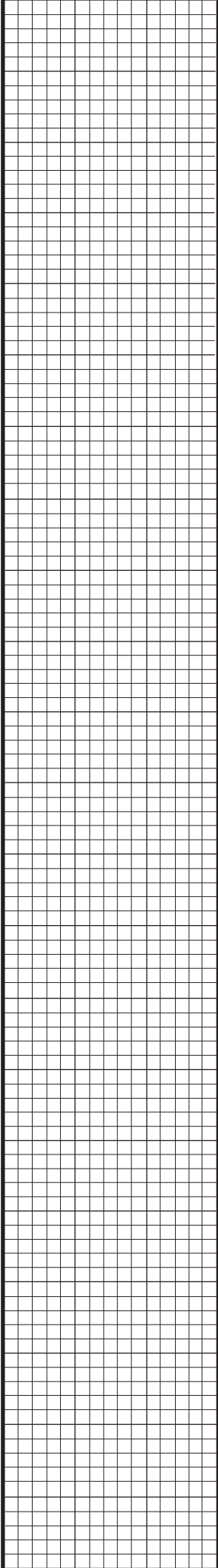


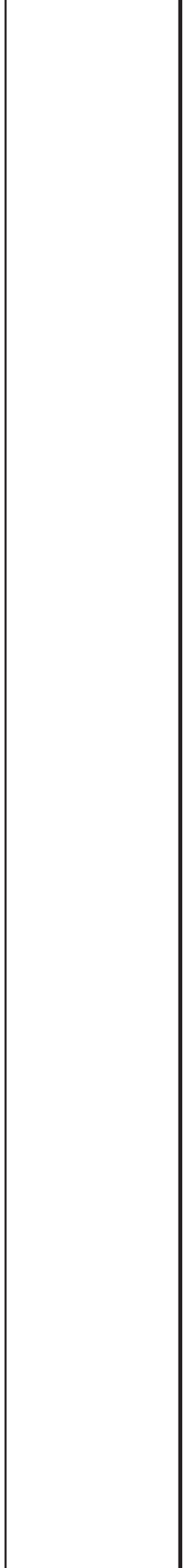
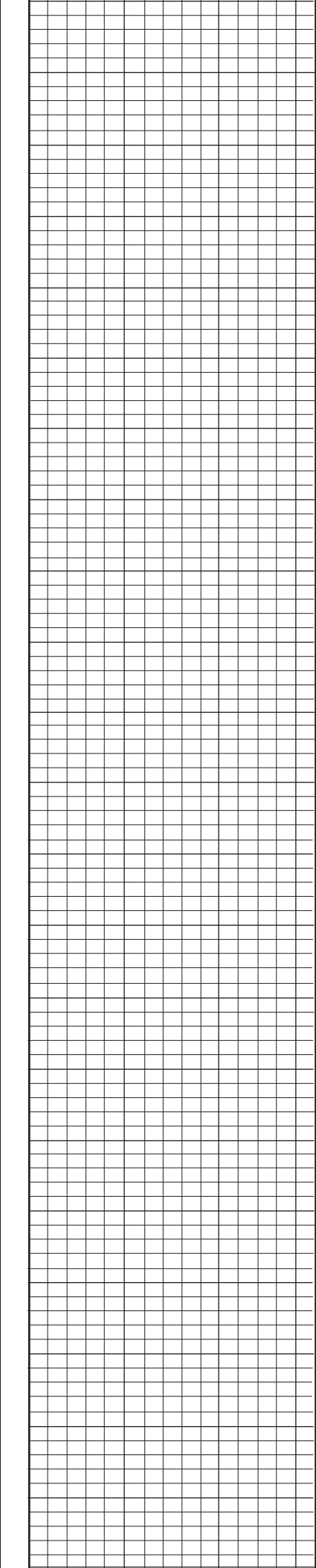
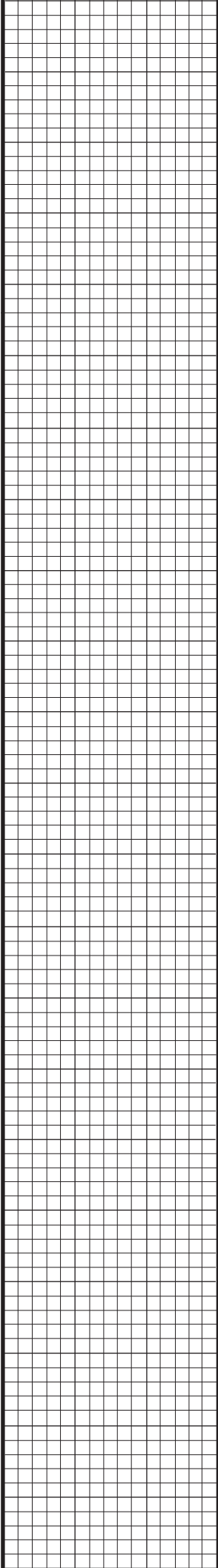


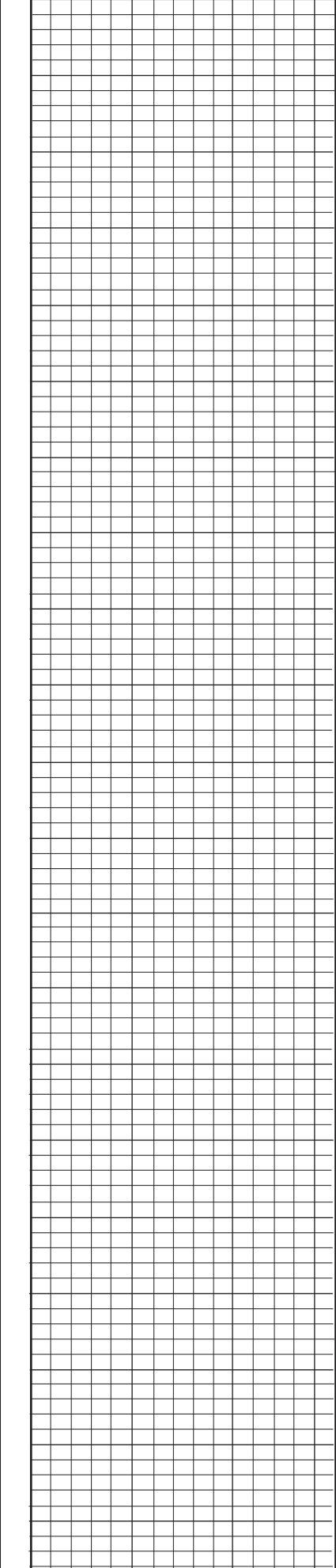
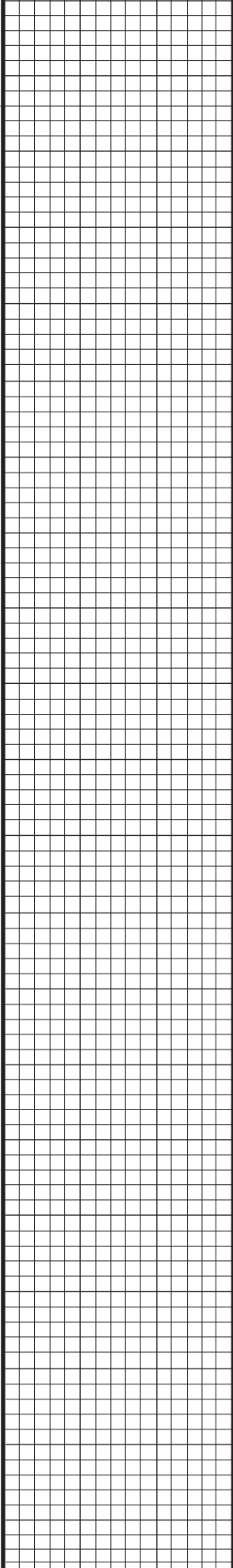


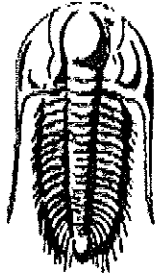












**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

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

124 N. Main  
Attica, KS 67009-0195

ATTN: Tim Pierce

**Dana #A-1**

**6-32s-10w Barber,KS**

Start Date: 2014.06.20 @ 04:12:46

End Date: 2014.06.20 @ 11:19:01

Job Ticket #: 51991                      DST #: 1

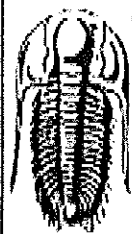
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 16:21:08

R & B Oil & Gas, Inc.      6-32s-10w Barber,KS      Dana #A-1      DST # 1      Tarkio Sand      2014.06.20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

**6-32s-10w Barber,KS**  
**Dana #A-1**  
Job Ticket: 51991      DST#: 1  
Test Start: 2014.06.20 @ 04:12:46

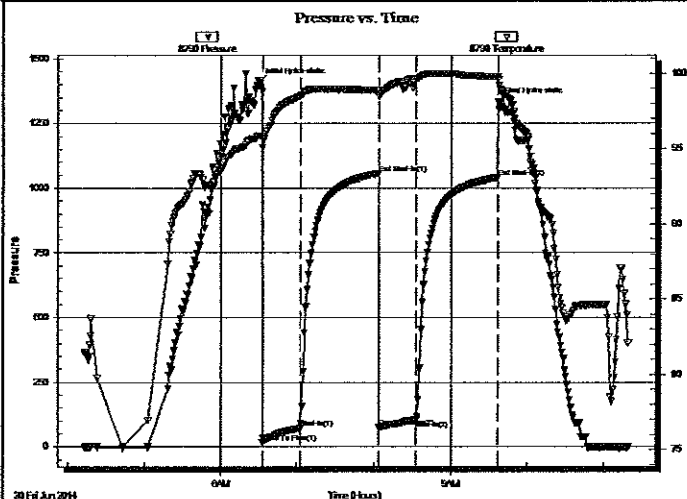
## GENERAL INFORMATION:

Formation: **Tarkio Sand**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 06:32:31  
Time Test Ended: 11:19:01  
Interval: **2827.00 ft (KB) To 2842.00 ft (KB) (TVD)**  
Total Depth: **2842.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Ryan Reynolds**  
Unit No: **68**  
Reference Elevations: **1656.00 ft (KB)**  
**1646.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

**Serial #: 8790**      **Outside**  
Press@RunDepth: **104.19 psig @ 2828.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2014.06.20**      End Date: **2014.06.20**      Last Calib.: **2014.06.20**  
Start Time: **04:12:51**      End Time: **11:19:00**      Time On Btm: **2014.06.20 @ 06:29:46**  
Time Off Btm: **2014.06.20 @ 09:36:46**

TEST COMMENT: IF: Strong blow . BOB @ 15 min.  
IS: Weak Surf. BB  
FF: Weak blow . Surf. - 2"  
FS: No blow

## PRESSURE SUMMARY



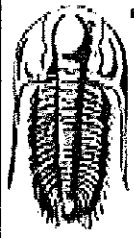
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1409.76	95.85	Initial Hydro-static
3	16.84	95.09	Open To Flow (1)
33	71.30	98.49	Shut-in(1)
94	1056.85	98.89	End Shut-in(1)
95	75.54	98.49	Open To Flow (2)
123	104.19	99.63	Shut-in(2)
187	1041.56	99.76	End Shut-in(2)
187	1335.10	99.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
119.00	SLI OMCW 1%o, 10%m, 89%w	0.59
60.00	OWCM 10%o, 40%w, 50%m	0.81
20.00	VMCO 21%w, 30%m, 49%o	0.28
1.00	Clean Oil	0.01

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.  
124 N. Main  
Atlica, KS 67009-0195  
ATTN: Tim Pierce

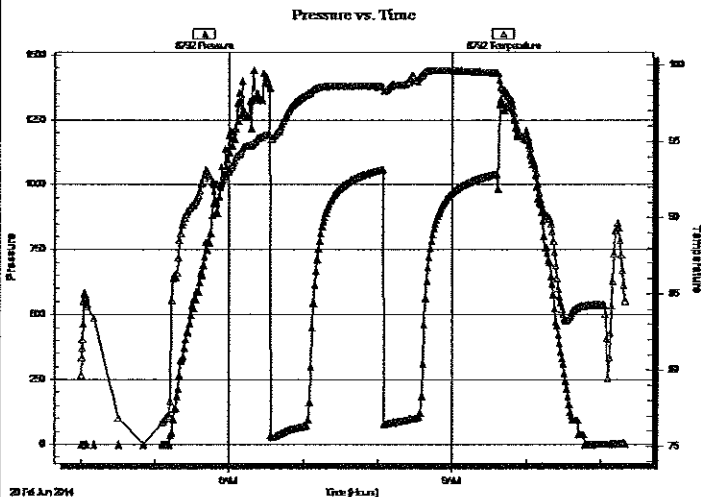
6-32s-10w Barber, KS  
Dana #A-1  
Job Ticket: 51991      DST#: 1  
Test Start: 2014.06.20 @ 04:12:46

## GENERAL INFORMATION:

Formation:	Tarkio Sand	Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:                      ft (KB)	Tester:	Ryan Reynolds
Time Tool Opened:	06:32:31	Unit No:	68
Time Test Ended:	11:19:01	Reference Elevations:	1656.00 ft (KB) 1646.00 ft (CF)
Interval:	2827.00 ft (KB) To 2842.00 ft (KB) (TVD)	KB to GR/CF:	10.00 ft
Total Depth:	2842.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches Hole Condition: Poor		

<b>Serial #:</b> 8792	Inside	Capacity:	8000.00 psig
Press@RunDepth:	psig @ 2828.00 ft (KB)	Last Calib.:	2014.06.20
Start Date:	2014.06.20	End Date:	2014.06.20
Start Time:	04:00:23	End Time:	11:20:17
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: Strong blow . BOB @ 15 min.  
IS: Weak Surf. BB  
FF: Weak blow . Surf. - 2"  
FS: No blow



## PRESSURE SUMMARY

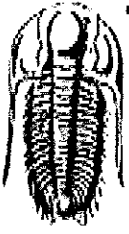
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
119.00	SLI OMCW 1%o, 10%m, 89%w	0.59
60.00	OWCM 10%o, 40%w, 50%m	0.81
20.00	VMCO 21%w, 30%m, 49%o	0.28
1.00	Clean Oil	0.01

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m³/d)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

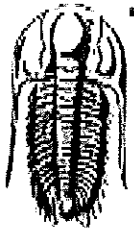
6-32s-10w Barber,KS  
Dana #A-1  
Job Ticket: 51991      DST#: 1  
Test Start: 2014.06.20 @ 04:12:46

### Tool Information

Drill Pipe:	Length: 2693.00 ft	Diameter: 3.80 inches	Volume: 37.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<b>Total Volume: 38.38 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2827.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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			2808.00	
Shut In Tool	5.00			2813.00	
Hydraulic tool	5.00			2818.00	
Packer	5.00			2823.00	20.00      Bottom Of Top Packer
Packer	4.00			2827.00	
Stubb	1.00			2828.00	
Recorder	0.00	8792	Inside	2828.00	
Recorder	0.00	8790	Outside	2828.00	
Perforations	11.00			2839.00	
Bullnose	3.00			2842.00	15.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

**6-32s-10w Barber,KS**  
**Dana #A-1**  
Job Ticket: 51991      DST#: 1  
Test Start: 2014.06.20 @ 04:12:46

### 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:	70000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 0.02 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
119.00	SLI OMCW 1%o, 10%m, 89%w	0.585
60.00	OWCM 10%o, 40%w, 50%m	0.814
20.00	WMCO 21%w, 30%m, 49%o	0.281
1.00	Clean Oil	0.014

Total Length: 200.00 ft      Total Volume: 1.694 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:

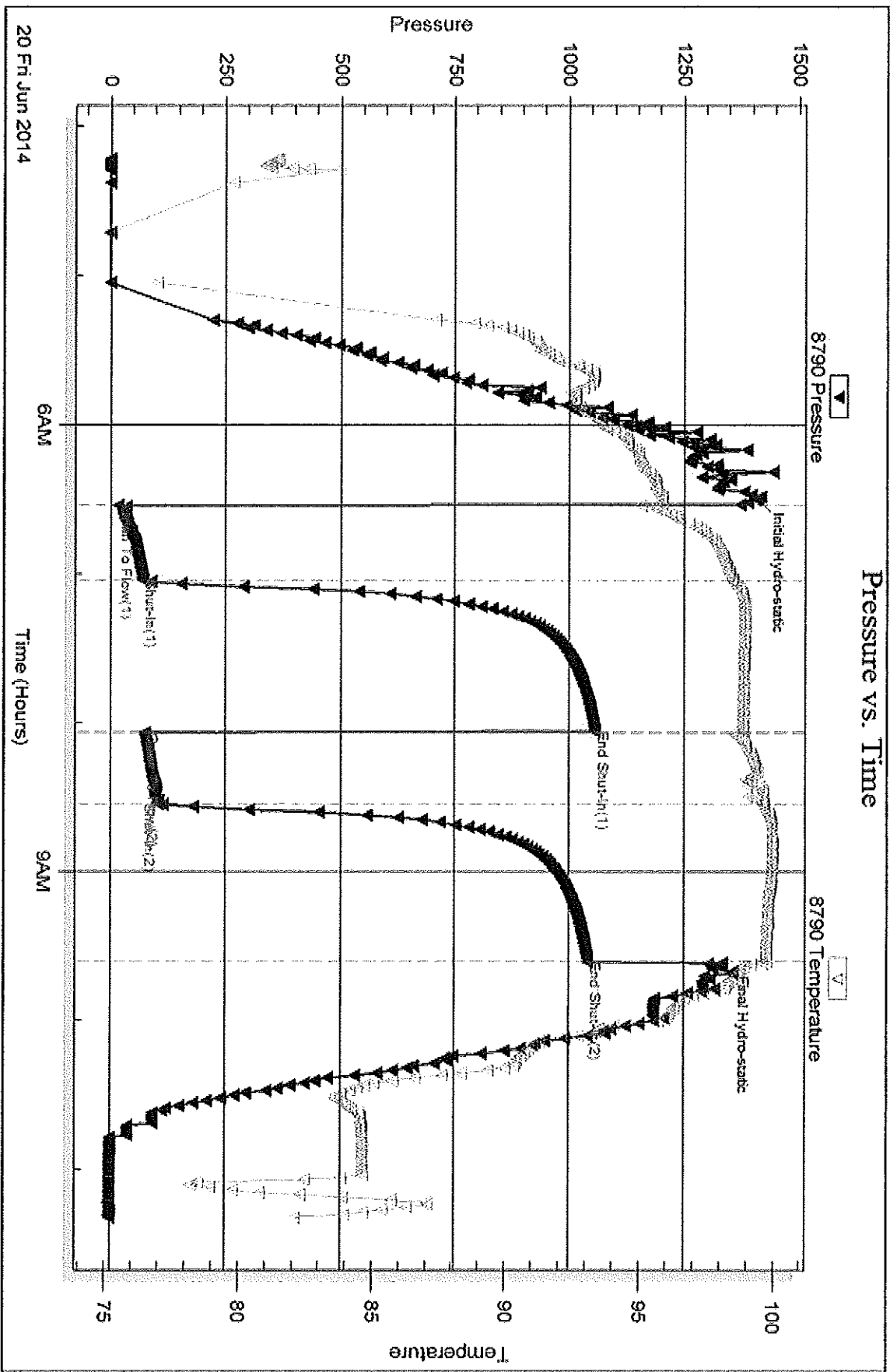


Serial #: 8790

Outside R & B Oil & Gas, Inc.

Dana #A-1

DST Test Number: 1



20 Fri Jun 2014

Triobite Testing, Inc

Ref. No: 51591

Printed: 2014.06.26 @ 16:21:09

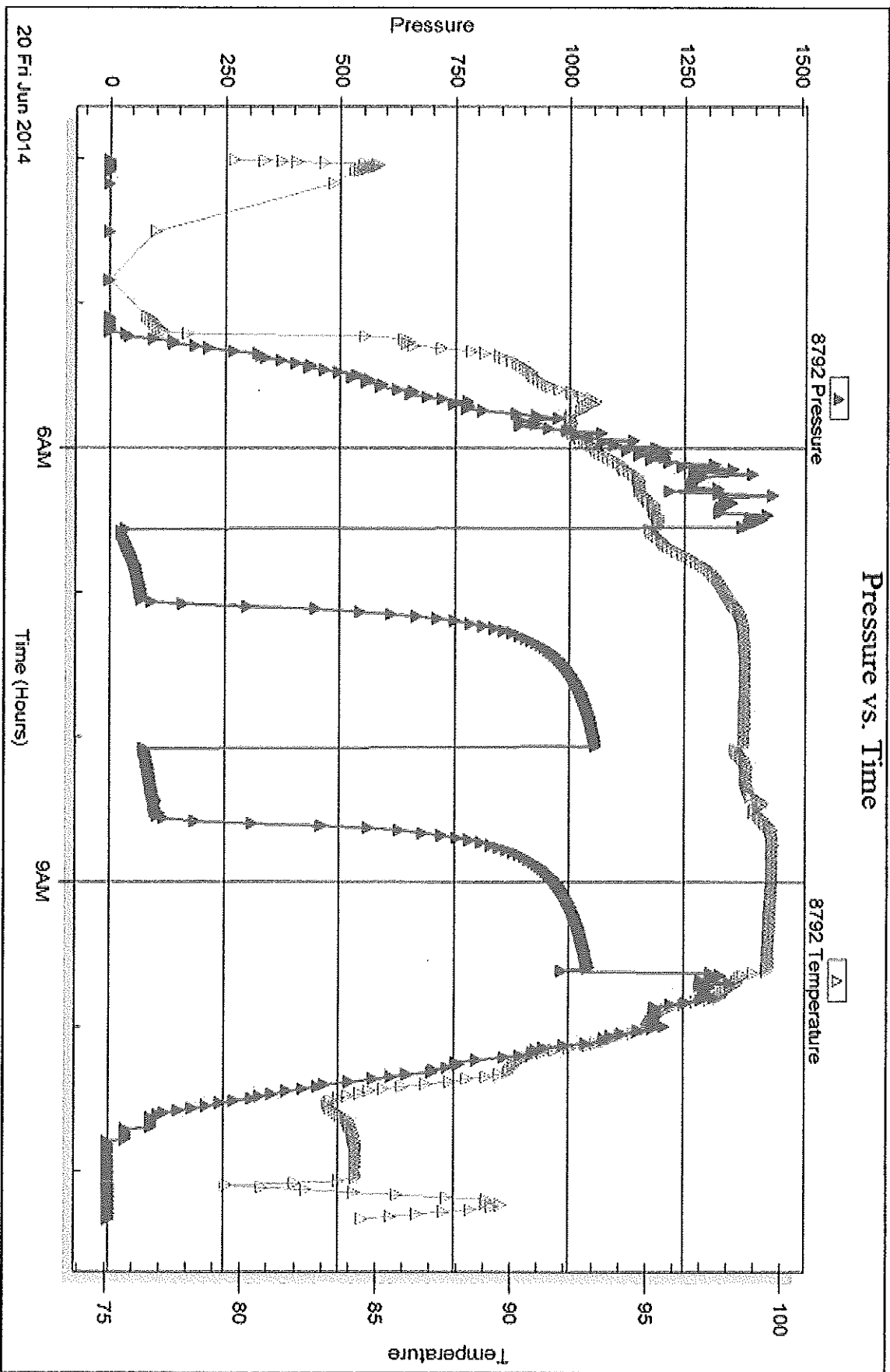
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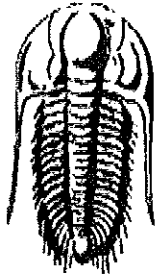
Inside

R & B Oil & Gas, Inc.

Data #A-1

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

124 N. Main  
Attica, KS 67009-0195

ATTN: Tim Pierce

**Dana #A-1**

**6-32s-10w Barber,KS**

Start Date: 2014.06.23 @ 14:11:02

End Date: 2014.06.23 @ 19:48:32

Job Ticket #: 51992                      DST #: 2

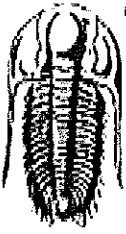
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 16:20:46

R & B Oil & Gas, Inc.    6-32s-10w Barber,KS    Dana #A-1    DST # 2    Miss.    2014.06.23



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

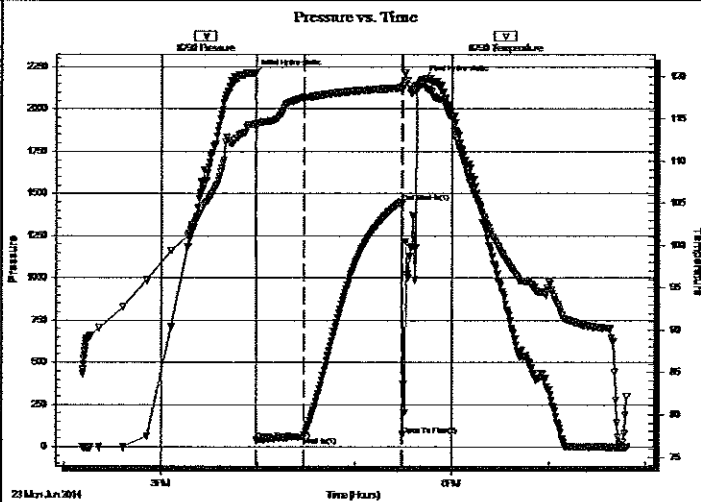
**6-32s-10w Barber,KS**  
**Dana #A-1**  
Job Ticket: 51992      **DST#: 2**  
Test Start: 2014.06.23 @ 14:11:02

## GENERAL INFORMATION:

Formation: Miss.  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 15:59:02  
Time Test Ended: 19:48:32  
Interval: 4466.00 ft (KB) To 4492.00 ft (KB) (TVD)  
Total Depth: 4492.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ryan Reynolds  
Unit No: 68  
Reference Elevations: 1656.00 ft (KB)  
1646.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8790**      **Outside**  
Press@RunDepth: 59.13 psig @ 4467.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.06.23      End Date: 2014.06.23      Last Calib.: 2014.06.23  
Start Time: 14:11:07      End Time: 19:48:31      Time On Btm: 2014.06.23 @ 15:57:47  
Time Off Btm: 2014.06.23 @ 17:41:17

**TEST COMMENT:** IF: Strong blow . BOB @ 1 min.  
ISE No blow  
FF: Strong blow . BOB @ 1 min. (lost circ. / pulled tool)  
No FSI Period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.32	114.38	Initial Hydro-static
2	41.43	114.04	Open To Flow (1)
31	59.13	117.50	Shut-in(1)
91	1450.68	118.66	End Shut-in(1)
92	71.87	118.62	Open To Flow (2)
104	2171.96	119.04	Final Hydro-static

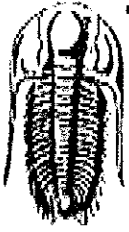
## Recovery

Length (ft)	Description	Volume (bbl)
1405.00	Drig mud 100% mud	18.60
150.00	OWCM 1%o, 5%w, 94%m	2.10
0.00	715' GP	0.00

\* Recovery from multiple tests

## Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.

6-32s-10w Barber,KS

124 N. Main  
Attica, KS 67009-0195

Dana #A-1

ATTN: Tim Pierce

Job Ticket: 51992

DST#: 2

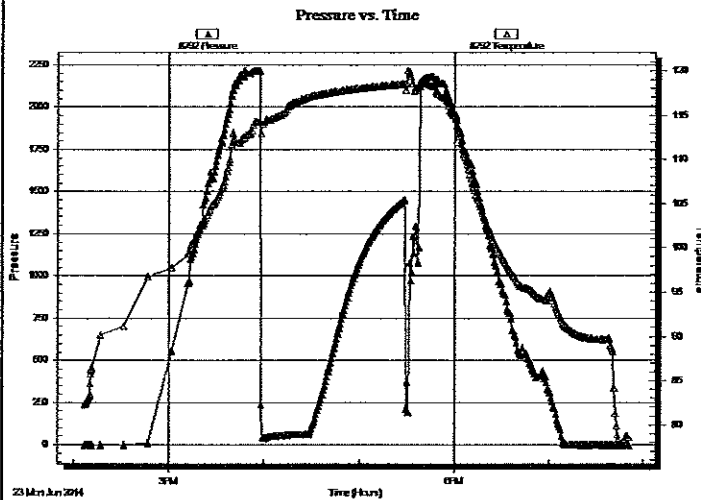
Test Start: 2014.06.23 @ 14:11:02

### GENERAL INFORMATION:

Formation: Miss.  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:59:02  
 Time Test Ended: 19:48:32  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Reynolds  
 Unit No: 68  
 Interval: 4466.00 ft (KB) To 4492.00 ft (KB) (TVD)  
 Total Depth: 4492.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Reference Elevations: 1656.00 ft (KB)  
 1646.00 ft (CF)  
 KB to GRVCF: 10.00 ft

Serial #: 8792 Inside  
 Press@RunDepth: psig @ 4467.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.23 End Date: 2014.06.23 Last Calib.: 2014.06.23  
 Start Time: 14:06:48 End Time: 19:50:27 Time On Btmr  
 Time Off Btmr

TEST COMMENT: IF: Strong blow . BOB @ 1 min.  
 IS: No blow  
 FF: Strong blow . BOB @ 1 min. (lost circ. / pulled tool)  
 No FSI Period.



### PRESSURE SUMMARY

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

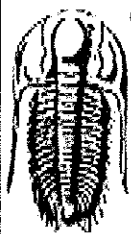
### Recovery

Length (ft)	Description	Volume (bbl)
1405.00	Drig mud 100%mud	18.60
150.00	OWCM 1%o, 5%w, 94%m	2.10
0.00	715' GP	0.00

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (m³/d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas, Inc.

6-32s-10w Barber,KS

124 N. Main  
Altica, KS 67009-0195

Dana #A-1

Job Ticket: 51992

DST#: 2

ATTN: Tim Pierce

Test Start: 2014.06.23 @ 14:11:02

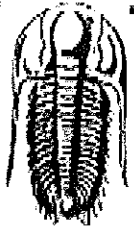
### Tool Information

Drill Pipe:	Length: 4335.00 ft	Diameter: 3.80 inches	Volume: 60.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 97000.00 lb
			<u>Total Volume: 61.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4466.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 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			4447.00	
Shut In Tool	5.00			4452.00	
Hydraulic tool	5.00			4457.00	
Packer	5.00			4462.00	20.00 Bottom Of Top Packer
Packer	4.00			4466.00	
Stubb	1.00			4467.00	
Recorder	0.00	8792	Inside	4467.00	
Recorder	0.00	8790	Outside	4467.00	
Perforations	22.00			4489.00	
Bullnose	3.00			4492.00	26.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

**6-32s-10w Barber,KS**  
**Dana #A-1**  
Job Ticket: 51992      **DST#: 2**  
Test Start: 2014.06.23 @ 14:11:02

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	38000 ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1405.00	Drig mud 100% mud	18.597
150.00	OWCM 1%o, 5%w, 94%m	2.104
0.00	715' GP	0.000

Total Length: 1555.00 ft      Total Volume: 20.701 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

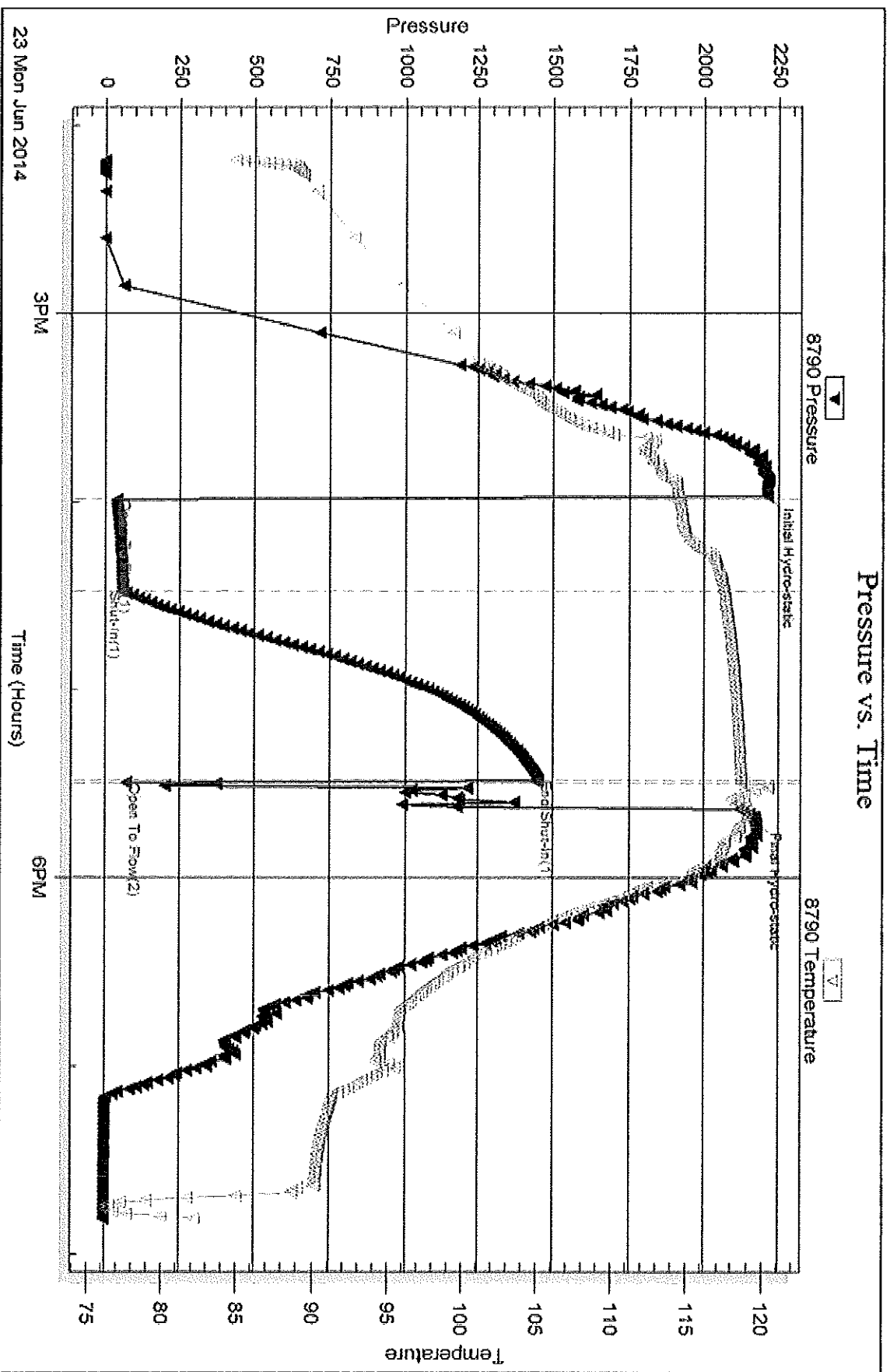
Serial #: 8790

Outside R & B Oil & Gas, Inc.

Dana #A-1

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51992

Printed: 2014.06.26 @ 16:20:47



Serial #: 8792

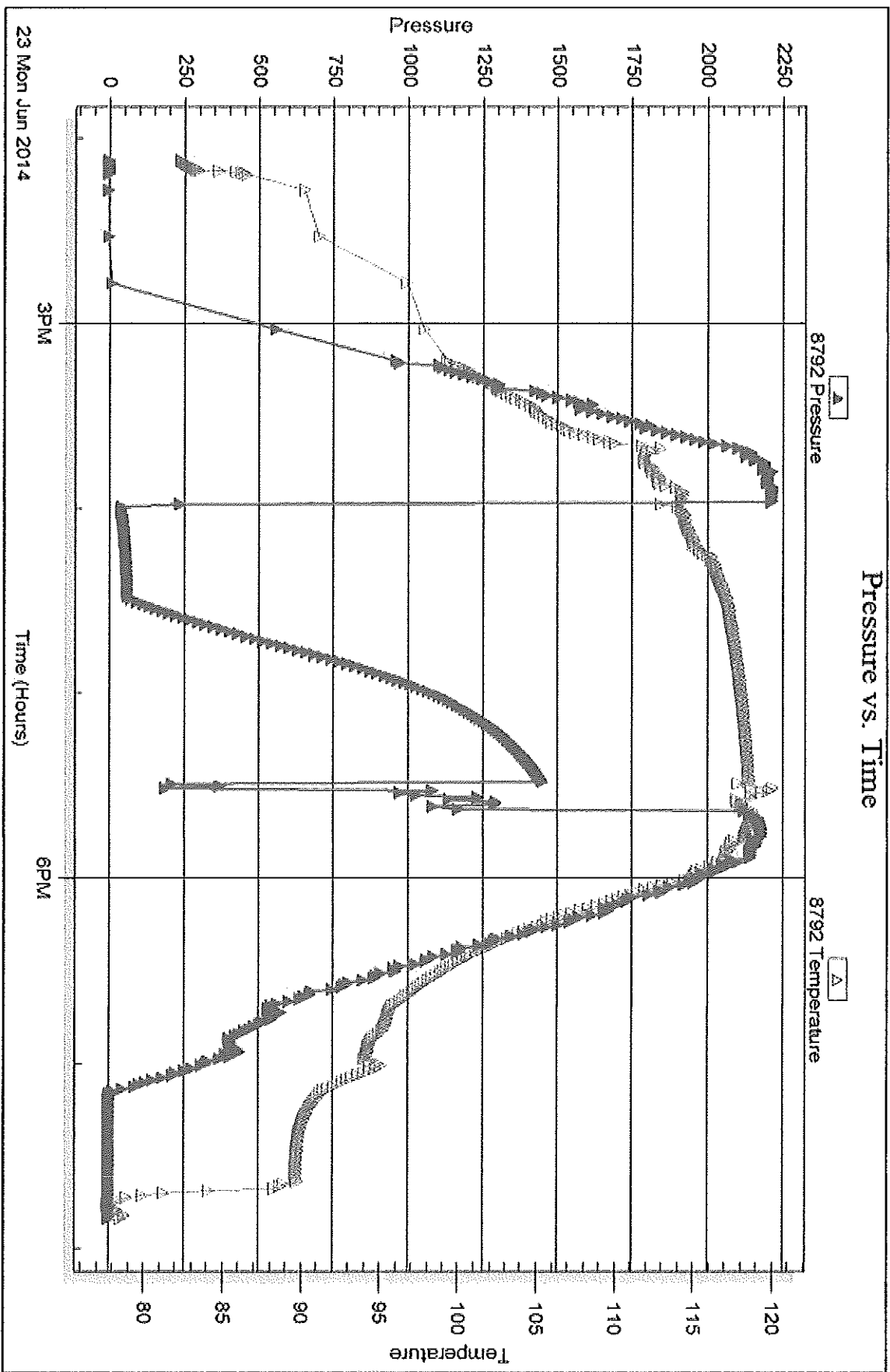
Inside

R & B Oil & Gas, Inc.

Dena #A-1

DST Test Number: 2

### Pressure vs. Time

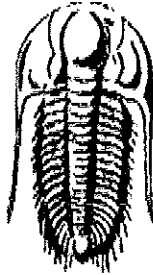


23 Mon Jun 2014

Trieblite Testing, Inc

Ref. No: 51592

Printed: 2014.06.26 @ 16:20:47



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

124 N. Main  
Attica, KS 67009-0195

ATTN: Tim Pierce

**Dana #A-1**

**6-32s-10w Barber,KS**

Start Date: 2014.06.24 @ 03:30:31

End Date: 2014.06.24 @ 11:00:16

Job Ticket #: 51993                      DST #: 3

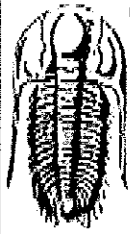
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 16:20:23

R & B Oil & Gas, Inc.    6-32s-10w Barber,KS    Dana #A-1    DST # 3    Miss.    2014.06.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

**6-32s-10w Barber, KS**  
**Dana #A-1**  
Job Ticket: 51993      **DST#: 3**  
Test Start: 2014.06.24 @ 03:30:31

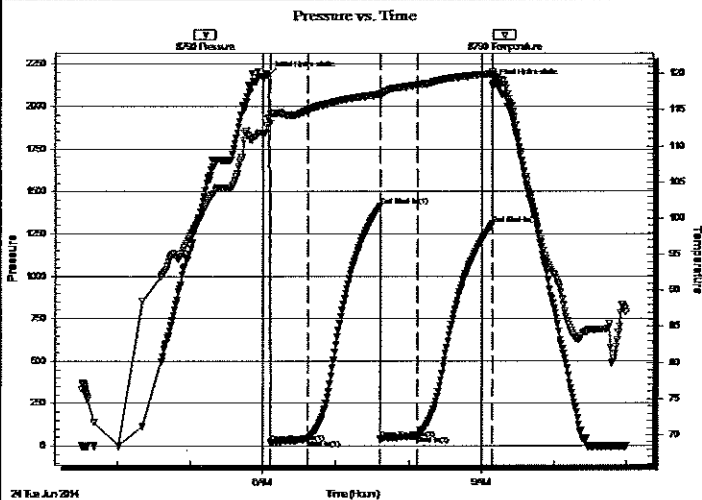
## GENERAL INFORMATION:

Formation: **Miss.**  
Deviated: **No** Whipstock: **ft (KB)**      Test Type: **Conventional Bottom Hole (Reset)**  
Time Tool Opened: 06:06:16      Tester: **Ryan Reynolds**  
Time Test Ended: 11:00:16      Unit No: **68**

Interval: **4480.00 ft (KB) To 4500.00 ft (KB) (TVD)**      Reference Elevations: **1656.00 ft (KB)**  
Total Depth: **4500.00 ft (KB) (TVD)**      **1646.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **10.00 ft**

**Serial #: 8790**      Outside  
Press@RunDepth: **56.27 psig @ 4481.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2014.06.24**      End Date: **2014.06.24**      Last Calib.: **2014.06.24**  
Start Time: **03:30:36**      End Time: **11:00:15**      Time On Btm: **2014.06.24 @ 06:04:31**  
Time Off Btm: **2014.06.24 @ 09:09:31**

**TEST COMMENT:** IF: Fair blow . surf. - 4"  
IS: No blow  
FF: Weak blow . surf. - 1/2"  
FS: No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.08	113.96	Initial Hydro-static
2	18.81	114.48	Open To Flow (1)
32	36.93	114.88	Shut-in(1)
92	1414.18	117.18	End Shut-in(1)
93	40.08	116.98	Open To Flow (2)
123	56.27	118.46	Shut-in(2)
184	1309.61	119.97	End Shut-in(2)
185	2137.61	119.80	Final Hydro-static

## Recovery

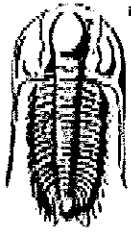
Length (ft)	Description	Volume (bbl)
60.00	OWCM 2%o, 44%w, 54%m	0.30
30.00	VSLI OWCM 2%o, 2%w, 54%m	0.15
0.00	60' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

R & B Oil & Gas, Inc.  
124 N. Main  
Atlica, KS 67009-0195  
ATTN: Tim Pierce

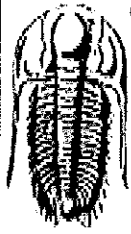
**6-32s-10w Barber,KS**  
**Dana #A-1**  
Job Ticket: 51993      **DST#: 3**  
Test Start: 2014.06.24 @ 03:30:31

### Tool Information

Drill Pipe:	Length: 4366.00 ft	Diameter: 3.80 inches	Volume: 61.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.84 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4480.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			4461.00	
Shut In Tool	5.00			4466.00	
Hydraulic tool	5.00			4471.00	
Packer	5.00			4476.00	20.00      Bottom Of Top Packer
Packer	4.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	8792	Inside	4481.00	
Recorder	0.00	8790	Outside	4481.00	
Perforations	16.00			4497.00	
Bullnose	3.00			4500.00	20.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R & B Oil & Gas, Inc.

**6-32s-10w Barber,KS**

124 N. Main  
Atlica, KS 67009-0195

**Dana #A-1**

Job Ticket: 51993

**DST#: 3**

ATTN: Tim Pierce

Test Start: 2014.06.24 @ 03:30:31

## 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:	79000 ppm
Viscosity: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OWCM 2%o, 44%w, 54%m	0.295
30.00	VSLI OWCM trc%o, 2%w, 54%m	0.148
0.00	60' GIP	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial#: none

Laboratory Name:

Laboratory Location:

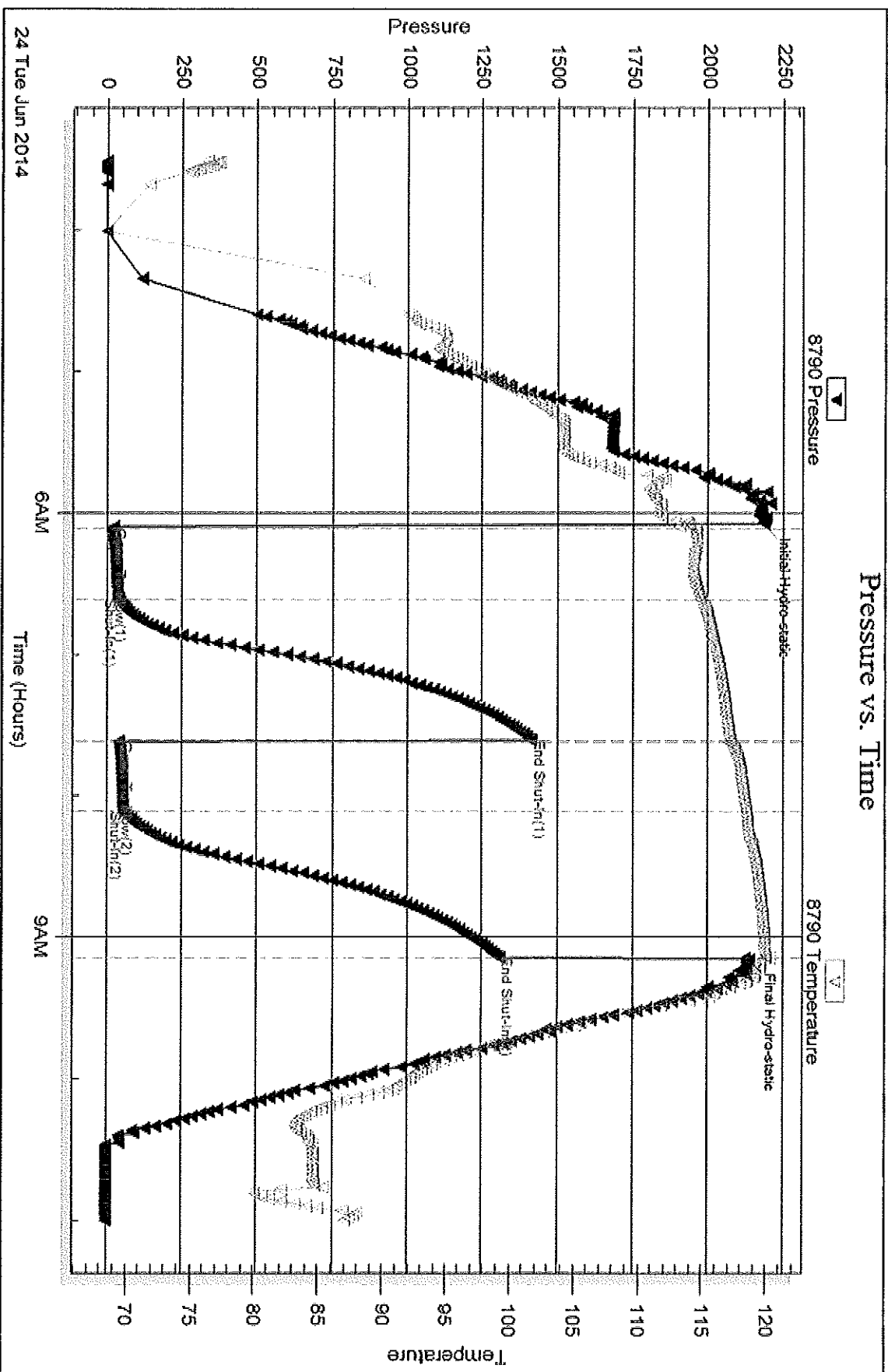
Recovery Comments:

Serial #: 8790

Outside R & B Oil & Gas, Inc.

Dana #A-1

DST Test Number: 3



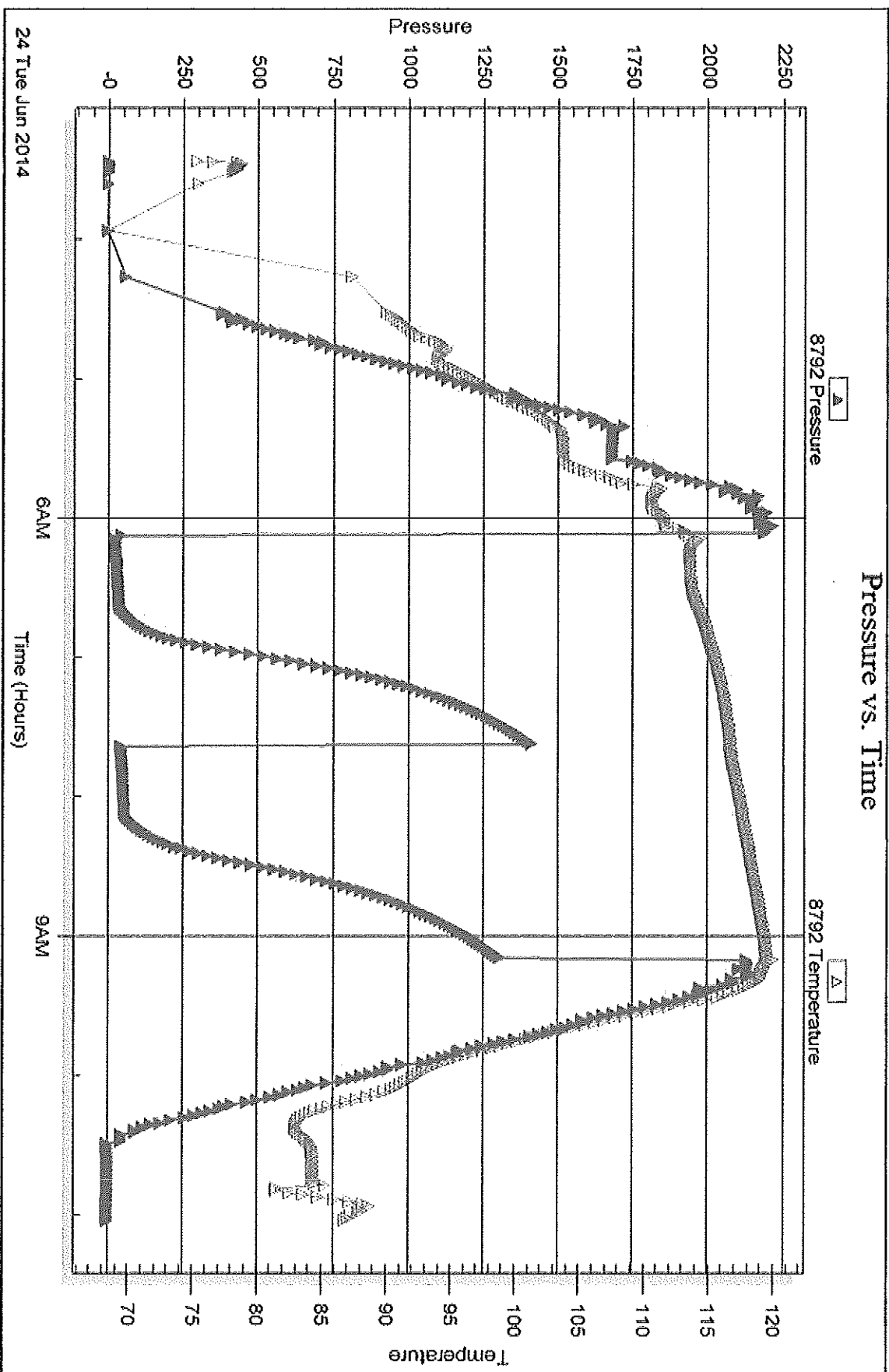
Serial #: 8792

Inside

R & B Oil & Gas, Inc.

Data #A-1

DST Test Number: 3

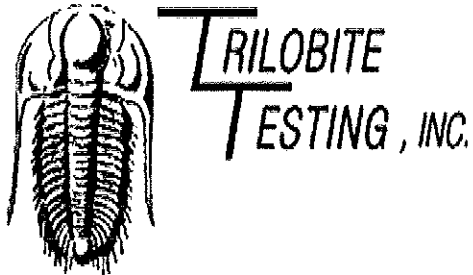


Triobite Testing, Inc

Ref. No: 51593

Printed: 2014.06.26 @ 16:20:25





## DRILL STEM TEST REPORT

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

124 N. Main  
Attica, KS 67009-0195

ATTN: Tim Pierce

**Dana #A-1**

**6-32s-10w Barber,KS**

Start Date: 2014.06.24 @ 17:45:50

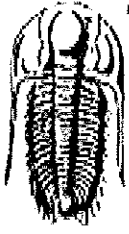
End Date: 2014.06.25 @ 00:35:35

Job Ticket #: 51994                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.26 @ 16:19:31

R & B Oil & Gas, Inc.      6-32s-10w Barber,KS      Dana #A-1      DST # 4      Miss.      2014.06.24



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

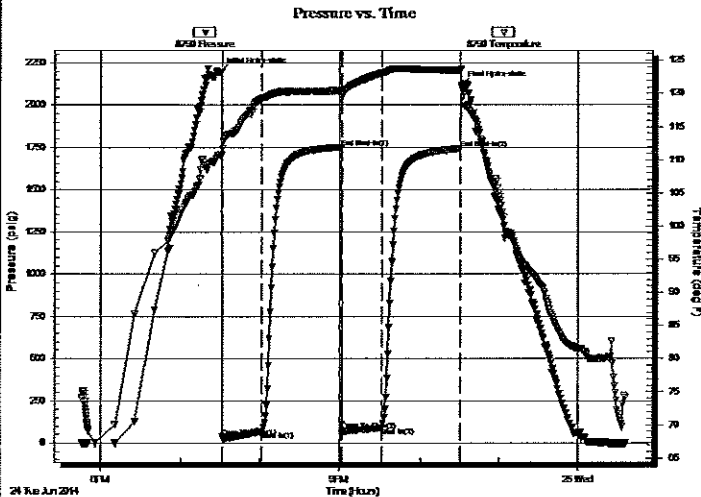
**6-32s-10w Barber,KS**  
**Dana #A-1**  
Job Ticket: 51994      **DST#: 4**  
Test Start: 2014.06.24 @ 17:45:50

## GENERAL INFORMATION:

Formation: **Miss.**  
Deviated: **No** Whipstock:                      ft (KB)      Test Type: **Conventional Bottom Hole (Reset)**  
Time Tool Opened: 19:31:20      Tester: **Ryan Reynolds**  
Time Test Ended: 00:35:35      Unit No: **68**  
Interval: **4500.00 ft (KB) To 4513.00 ft (KB) (TVD)**      Reference Elevations: **1656.00 ft (KB)**  
Total Depth: **4513.00 ft (KB) (TVD)**      **1646.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **10.00 ft**

**Serial #: 8790**      **Outside**  
Press@RunDepth: **90.14 psig @ 4501.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2014.06.24**      End Date: **2014.06.25**      Last Calib.: **2014.06.25**  
Start Time: **17:45:55**      End Time: **00:35:34**      Time On Btm: **2014.06.24 @ 19:29:35**  
Time Off Btm: **2014.06.24 @ 22:31:20**

**TEST COMMENT:** IF: Strong blow . BOB @ 16 min.  
IS: No blow  
FF: Weak blow . surf. - 2"  
FS: No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.55	110.73	Initial Hydro-static
2	37.34	110.71	Open To Flow (1)
32	67.53	119.26	Shut-In(1)
92	1751.18	120.47	End Shut-In(1)
93	73.49	119.91	Open To Flow (2)
122	90.14	123.09	Shut-In(2)
182	1743.08	123.50	End Shut-In(2)
182	2117.63	123.72	Final Hydro-static

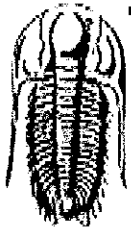
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLI OCMW 1%o, 14% m, 85% w	0.30
60.00	SLI OCMW 2%o, 35% m, 63% w	0.30
10.00	OWCM 3%o, 3% w, 94% m	0.12
0.00	320' GP	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

R & B Oil & Gas, Inc.  
 124 N. Main  
 Attilca, KS 67009-0195  
 ATTN: Tim Pierce

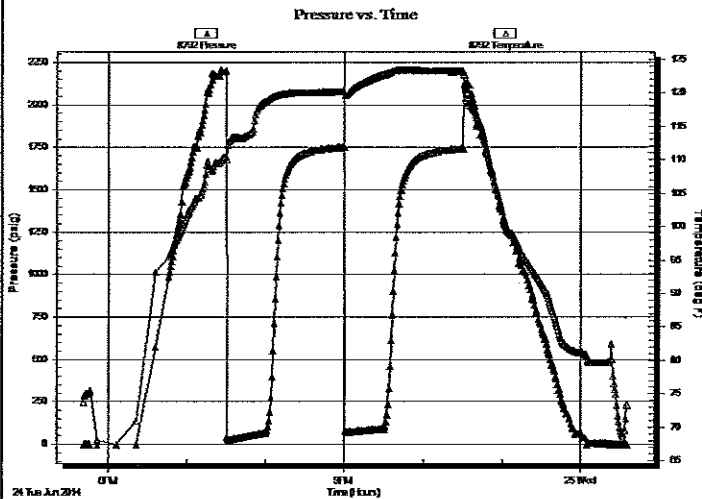
**6-32s-10w Barber, KS**  
**Dana #A-1**  
 Job Ticket: 51994      **DST#: 4**  
 Test Start: 2014.06.24 @ 17:45:50

**GENERAL INFORMATION:**

Formation: Miss.  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:31:20  
 Time Test Ended: 00:35:35  
 Interval: 4500.00 ft (KB) To 4513.00 ft (KB) (TVD)  
 Total Depth: 4513.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Reynolds  
 Unit No: 68  
 Reference Elevations: 1656.00 ft (KB)  
 1646.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8792 Inside**  
 Press@RunDepth: psig @ 4501.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.24 End Date: 2014.06.25 Last Calib.: 2014.06.25  
 Start Time: 17:41:03 End Time: 00:35:57 Time On Btmr  
 Time Off Btmr

**TEST COMMENT:** IF: Strong blow . BOB @ 16 min.  
 IS: No blow  
 FF: Weak blow . surf. - 2"  
 FS: No blow



**PRESSURE SUMMARY**

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

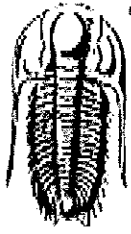
**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	SLI OCMW 1%o, 14%m, 85%w	0.30
60.00	SLI OCMW 2%o, 35%m, 63%w	0.30
10.00	OWCM 3%o, 3%w, 94%m	0.12
0.00	320' GIP	0.00

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (m <sup>3</sup> /d)

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

R & B Oil & Gas, Inc.  
124 N. Main  
Attica, KS 67009-0195  
ATTN: Tim Pierce

**6-32s-10w Barber, KS**  
**Dana #A-1**  
Job Ticket: 51994      **DST#: 4**  
Test Start: 2014.06.24 @ 17:45:50

**Tool Information**

Drill Pipe:	Length: 4366.00 ft	Diameter: 3.80 inches	Volume: 61.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 73000.00 lb
		Total Volume: 61.84 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4500.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 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			4481.00	
Shut In Tool	5.00			4486.00	
Hydraulic tool	5.00			4491.00	
Packer	5.00			4496.00	20.00      Bottom Of Top Packer
Packer	4.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	8792	Inside	4501.00	
Recorder	0.00	8790	Outside	4501.00	
Perforations	9.00			4510.00	
Bullnose	3.00			4513.00	13.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

R & B Oil & Gas, Inc.

**6-32s-10w Barber,KS**

124 N. Main  
Attica, KS 67009-0195

**Dana #A-1**

Job Ticket: 51994

**DST#: 4**

ATTN: Tim Pierce

Test Start: 2014.06.24 @ 17:45:50

## 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:

95000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SLI OCMW 1%o, 14%m, 85%w	0.295
60.00	SLI OCMW 2%o, 35%m, 63%w	0.295
10.00	OWCM 3%o, 3%w, 94%m	0.122
0.00	320' GIP	0.000

Total Length: 130.00 ft

Total Volume: 0.712 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

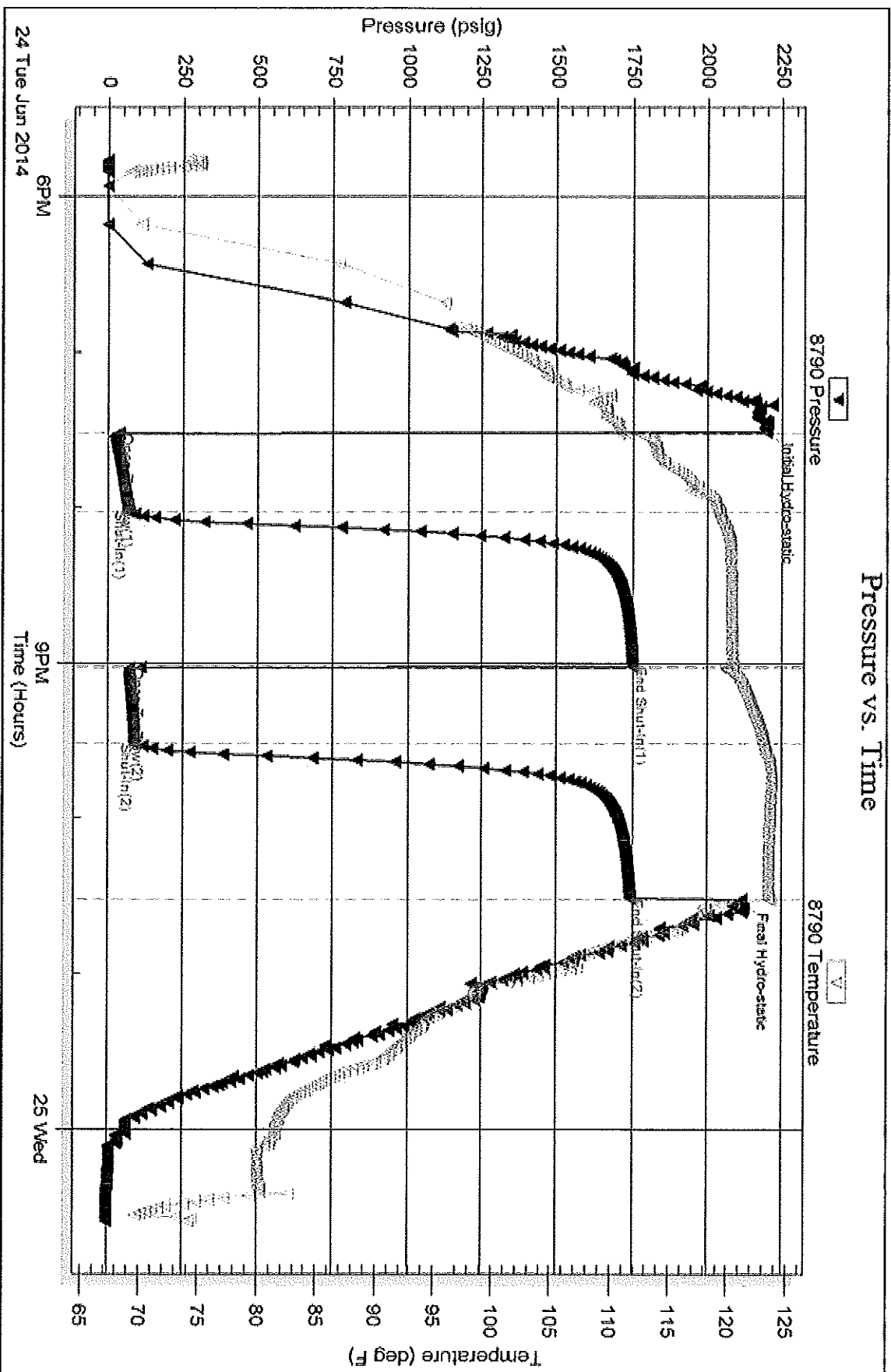
Recovery Comments:

Serial #: 8790

Outside R & B Oil & Gas, Inc.

Dana #A-1

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 51994

Printed: 2014.06.26 @ 16:19:33

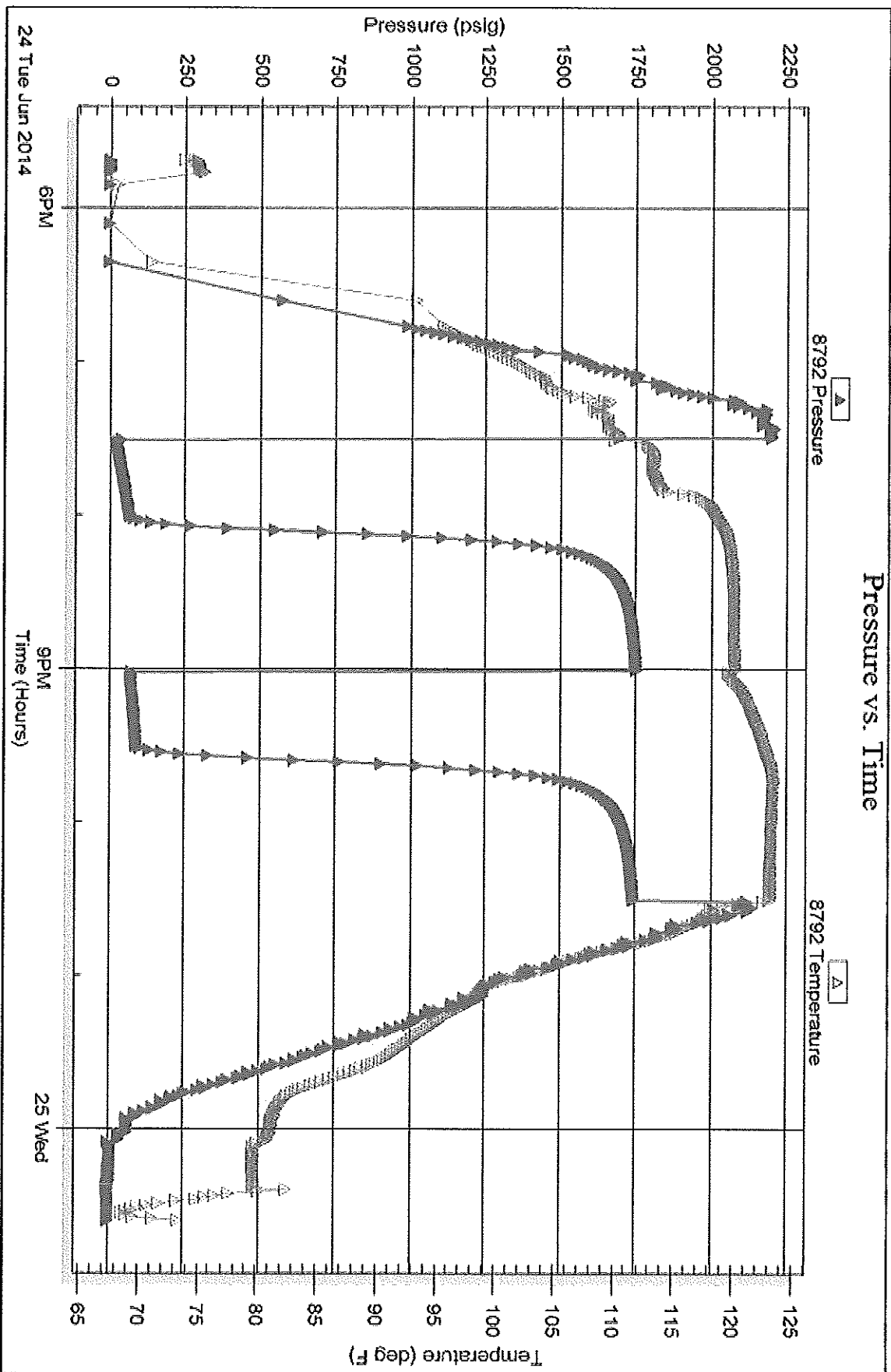
Serial #: 8792

Inside

R & B Oil & Gas, Inc.

Dana #A-1

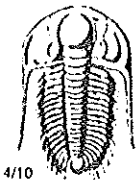
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 51994

Printed: 2014.06.26 @ 16:19:33



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51991

Well Name & No. Dana A-1 Test No. 1 Date 6-20-14  
 Company R.B. Oil & Gas, Inc. Elevation 1656 KB 1646 GL  
 Address 124 N. Main Attica, KS 67009-0195  
 Co. Rep / Geo. Tim Pierce Rig Hardt  
 Location: Sec. 6 Twp. 32s Rge. 10w. Co. Barber State KS

Interval Tested 2827-2842 Zone Tested Tarkio Sand  
 Anchor Length 15 Drill Pipe Run 2693 Mud Wt. 8.7  
 Top Packer Depth 2822 Drill Collars Run 122 Vis 55  
 Bottom Packer Depth 2827 Wt. Pipe Run Ø WL 8  
 Total Depth 2842 Chlorides 1000 ppm System LCM Ø

Blow Description IFI Strong blow. BOB @ 15 min.  
ISI: Weak surf. BB  
FFI: Weak blow, surf. - 2"  
FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
1	Clean Oil				
20	WMCO	49	21	30	
60	OWCM	10	40	50	
119	SLI OMCO	1	89	10	

Rec Total 200 BHT 100 Gravity N/L API RW 0.09 @ 85 °F Chlorides 70000 ppm

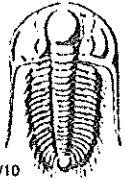
(A) Initial Hydrostatic 1410  Test 1150 T-On Location 0215  
 (B) First Initial Flow 17  Jars No Jars T-Started 0413  
 (C) First Final Flow 71  Safety Joint T-Open 0633  
 (D) Initial Shut-In 1057  Circ Sub T-Pulled 0933  
 (E) Second Initial Flow 76  Hourly Standby T-Out 1119  
 (F) Second Final Flow 104  Mileage 88 136.40 Comments PU Tools @  
 (G) Final Shut-In 1042  Sampler 6 am 6-22  
 (H) Final Hydrostatic 1335  Straddle  Ruined Shale Packer  
 Shale Packer  Ruined Packer  
 Extra Packer  Extra Copies

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  Day Standby 1 day 18.75h  
 Final Shut-In 60  Accessibility  
 Sub Total 1286.40 Total 2086.40  
 MP/DST Disc't

Approved By Tim Pierce Our Representative Ryan Reynolds

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. 51992

Well Name & No. Dana A-1 Test No. 2 Date 6-23-14  
 Company B & B Oil & Gas, Inc. Elevation 1556 KB 1546 GL  
 Address 124 N. Main Attica, KS 67009-0195  
 Co. Rep / Geo. Tim Pierce Rig Hardt  
 Location: Sec. 6 Twp. 32s Rge. 10w Co. Barber State KS

Interval Tested 4466 - 4492 Zone Tested Miss.  
 Anchor Length 26 Drill Pipe Run 4335 Mud Wt. 9.3  
 Top Packer Depth 4461 Drill Collars Run 122 Vis 40  
 Bottom Packer Depth 4466 Wt. Pipe Run Ø WL 10.8  
 Total Depth 4492 Chlorides 6000 ppm System LCM 4#

Blow Description FF: Strong blow. BAB @ 1 min. JST: No blow  
FF: Strong blow. BAB @ 1 min. (lost circ. during/pulled tool)  
FSI: No FSI. (Packer failure)

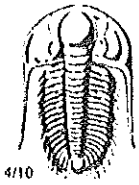
Rec	Feet of	%gas	%oil	%water	%mud
<u>715</u>	<u>GIP</u>				
<u>150</u>	<u>OWCM</u>		<u>1</u>	<u>5</u>	<u>94</u>
<u>1405</u>	<u>Dng mud</u>				<u>100</u>

Rec Total 1555 BHT 119 Gravity N/C API RW 16 @ 81 °F Chlorides 38000 ppm

(A) Initial Hydrostatic <u>2211</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1330</u>
(B) First Initial Flow <u>41</u>	<input type="checkbox"/> Jars	T-Started <u>1411</u>
(C) First Final Flow <u>59</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1559</u>
(D) Initial Shut-In <u>1451</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1738</u>
(E) Second Initial Flow <u>72</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1949</u>
(F) Second Final Flow <u>—</u>	<input checked="" type="checkbox"/> Mileage <u>88</u> <u>136.40</u>	Comments <u>Mis-run, lost</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	<u>circ. on FFP of</u>
(H) Final Hydrostatic <u>2172</u>	<input type="checkbox"/> Straddle	<u>Packer failure</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1186.40</u>
Final Flow <u>210</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>—</u>	Sub Total <u>1186.40</u>	

Approved By Tim Pierce Our Representative Ryan Reynolds

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. 51993

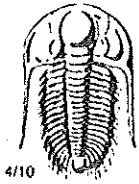
Well Name & No. Dana A-1 Test No. 3 Date 6-24-14  
 Company R & B Oil & Gas, Inc. Elevation 1556 KB 1546 GL  
 Address 124 N. Main Attica, KS 67009-0195  
 Co. Rep / Geo. Tim Pierce Rig Hardt  
 Location: Sec. 6 Twp. 32 S Rge. 10 W Co. Barber State KS

Interval Tested 4480-4500 Zone Tested Miss.  
 Anchor Length 20' Drill Pipe Run 4366 Mud Wt. 9.3  
 Top Packer Depth 4475 Drill Collars Run 122 Vis 40  
 Bottom Packer Depth 4480 Wt. Pipe Run Ø WL 10.8  
 Total Depth 4500 Chlorides 6000 ppm System LCM 4#  
 Blow Description IFI Fair blow. Surf. - 4" ISI: No blow  
FFI Weak blow. Surf. - 1/2" FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>				
<u>30</u>	<u>VSLI OWCM</u>	<u>72</u>	<u>2</u>	<u>98</u>	
<u>60</u>	<u>OWCM</u>	<u>2</u>	<u>44</u>	<u>54</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 120 Gravity N/C API RW .08 @ 85 °F Chlorides 79000 ppm  
 (A) Initial Hydrostatic 2185  Test 1250 T-On Location 0315  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 0331  
 (C) First Final Flow 37  Safety Joint \_\_\_\_\_ T-Open 0606  
 (D) Initial Shut-In 1414  Circ Sub \_\_\_\_\_ T-Pulled 0908  
 (E) Second Initial Flow 40  Hourly Standby \_\_\_\_\_ T-Out 1100  
 (F) Second Final Flow 56  Mileage 88 136.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1310  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2138  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1386.40  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1386.40

Approved By Tim Pierce Our Representative Ryan Reynolds  
 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. 51994

Well Name & No. Dana A-1 Test No. 4 Date 6-24-14  
 Company R & B Oil & Gas, Inc. Elevation 1556 KB 1546 GL  
 Address 124 N. Main Attica, KS 67009-0195  
 Co. Rep / Geo. Tim Pierce Rig Hardt  
 Location: Sec. 6 Twp. 32s Rge. 10w Co. Barber State KS

Interval Tested 4500-4513 Zone Tested Miss.  
 Anchor Length 13 Drill Pipe Run 4366 Mud Wt. 9.0  
 Top Packer Depth 4495 Drill Collars Run 122 Vis 49  
 Bottom Packer Depth 4500 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4513 Chlorides 5000 ppm System LCM 6#  
 Blow Description IF: Strong blow, BOB @ 16 min, IST: No blow.  
FF: Weak blow, surf, - 2" FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
320	GIF				
10	OWCM	3	3	94	
60	SLI OCMW	2	63	35	
60	SLI OCMW	1	85	14	

Rec Total 130 BHT 123 Gravity N/C API RW 0.08 @ 72° F Chlorides 95000 ppm  
 (A) Initial Hydrostatic 2199  Test 1250 T-On Location 1730  
 (B) First Initial Flow 37  Jars \_\_\_\_\_ T-Started 1746  
 (C) First Final Flow 68  Safety Joint \_\_\_\_\_ T-Open 1931  
 (D) Initial Shut-In 1751  Circ Sub \_\_\_\_\_ T-Pulled 2231  
 (E) Second Initial Flow 73  Hourly Standby \_\_\_\_\_ T-Out 0036  
 (F) Second Final Flow 90  Mileage 88 136.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 1743  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2118  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1386.40  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1386.40

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