



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1244310
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: _____



1244310

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 064495

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE <i>11-13-14</i>	SEC. <i>10</i>	TWP. <i>34S</i>	RANGE <i>11W</i>	CALLED OUT	ON LOCATION <i>2:30 A</i>	JOB START <i>1:30 P</i>	JOB FINISH <i>2:30 P</i>
LEASE <i>MRR</i>	WELL# <i>D-12</i>	LOCATION <i>2811 Scott Canyon Rd E</i>			COUNTY <i>Barber</i>	STATE <i>Ks</i>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)				<i>past CG. Along Fence N to Rig</i>			

CONTRACTOR *Hardy Drilling* OWNER *N-10 Exploration*

TYPE OF JOB *Production*
 HOLE SIZE *7 7/8* T.D. *4848*
 CASING SIZE *5 1/2* 14# DEPTH *4822.21*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *43.23*
 CEMENT LEFT IN CSG. *43.23*
 PERFS.
 DISPLACEMENT *117* *2% KCL*

CEMENT
 AMOUNT ORDERED *555x 60' 40' 41' Gal 4% SMS*
1502x Class Ht 10% SH 17.5# Kalseal

EQUIPMENT
 PUMP TRUCK CEMENTER *Jake Heard*
 # *894/302* HELPER *Robert Johnson*
 BULK TRUCK
 # *364* DRIVER *Anthony Hatton*
 BULK TRUCK
 # DRIVER

COMMON Class# 1502x @ <i>25.28</i>	<i>3792.00</i>
POZMIX @	
GEL @	
CHLORIDE @	
ASC @	
SALT <i>750#</i> @ <i>.68</i>	<i>510.00</i>
<i>Kalseal 750#</i> @ <i>.98</i>	<i>735.00</i>
<i>60' 40' 41' Gal 555x</i> @ <i>18.92</i>	<i>1040.60</i>
<i>SMS 19#</i> @ <i>3.30</i>	<i>62.70</i>
<i>KCL 14 Gal</i> @ <i>34.40</i>	<i>481.60</i>
<i>ASF 126#L</i> @ <i>25.00</i>	<i>300.00</i>
	@
	@
HANDLING @	
MILEAGE @	

REMARKS:

20% = 1384.38 TOTAL *6921.90*

SERVICE

DEPTH OF JOB *4822.21*
 PUMP TRUCK CHARGE ~~*4800.00*~~ *2765.75*
 EXTRA FOOTAGE L.V. *46* @ *4.40* *666.00*
 MILEAGE *15 400* @ *7.70* *115.50*
 MANIFOLD + Head @ *2.75* *2.75.00*
Handling 231.56 cu/ft @ *2.48* *574.26*
Drayage 10.17 / 203.49 @ *2.75* *559.60*

20% = 871.22 TOTAL *4356.11*

PLUG & FLOAT EQUIPMENT

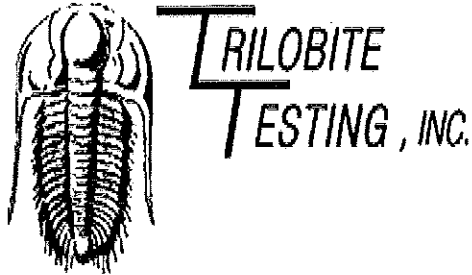
<i>1 TRP</i>	@	<i>85.00</i>
<i>1 Guide shoe</i>	@	<i>281.00</i>
<i>1 MFL Insert</i>	@	<i>335.00</i>
<i>10 Recip. cementers</i>	@ <i>89.00</i>	<i>890.00</i>
<i>8 Centralizers</i>	@ <i>57.00</i>	<i>456.00</i>
		TOTAL <i>2047.00</i>

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

SALES TAX (If Any) _____
 TOTAL CHARGES *13325.01*
 DISCOUNT *11069.41* IF PAID IN 30 DAYS

PRINTED NAME *X TIM PIERCE*
 SIGNATURE *X Tim Pierce*

5 1/2



DRILL STEM TEST REPORT

Prepared For: **N-10 Expl. LLC.**

124 N. Main
Attica, KS 67009

ATTN: Tim Pierce

10-34s-11w Barber,KS

Medicine River Ranch. D #12

Start Date: 2014.11.12 @ 08:02:43

End Date: 2014.11.12 @ 15:16:28

Job Ticket #: 59925 DST #: 1

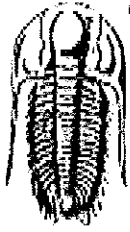
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2014.11.14 @ 09:06:42

N-10 Expl. LLC. Medicine River Ranch. D #12 10-34s-11w Barber,KS DST # 1 MIsener 2014.11.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

N-10 Expl. LLC.

124 N. Main
Attica, KS 67009

ATTN: Tim Pierce

Medicine River Ranch. D #12

10-34s-11w Barber,KS

Job Ticket: 59925

DST#: 1

Test Start: 2014.11.12 @ 08:02:43

GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:11:28

Time Test Ended: 15:16:28

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 68

Interval: 4827.00 ft (KB) To 4845.00 ft (KB) (TVD)

Total Depth: 4845.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1354.00 ft (KB)

1344.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8790

Inside

Press@RunDepth: 44.84 psig @ 4828.00 ft (KB)

Start Date: 2014.11.12

End Date:

2014.11.12

Start Time: 08:02:48

End Time:

15:16:27

Capacity: 8000.00 psig

Last Calib.: 2014.11.12

Time On Blmt 2014.11.12 @ 10:09:58

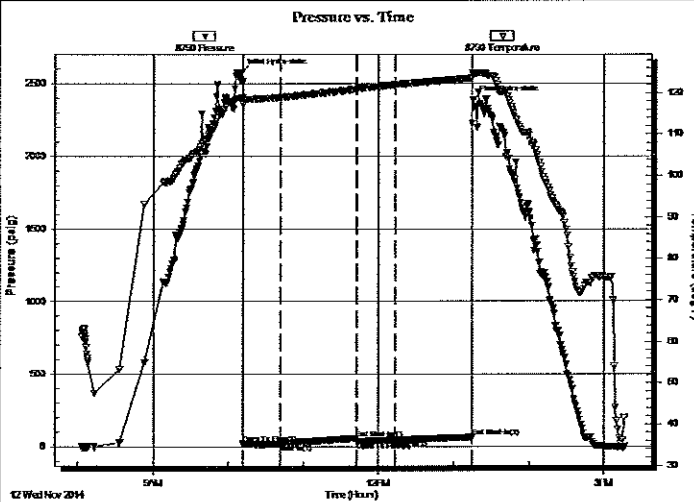
Time Off Blmt 2014.11.12 @ 13:15:58

TEST COMMENT: IF: Weak blow .dead @ 2min.

IS: No blow.

FF: No blow.

FS: No blow



PRESSURE SUMMARY

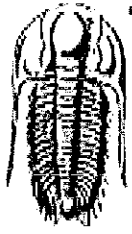
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2574.59	118.83	Initial Hydro-static
2	20.78	117.40	Open To Flow (1)
32	23.66	118.95	Shut-in(1)
93	55.74	120.87	End Shut-in(1)
93	32.07	120.90	Open To Flow (2)
124	44.84	121.95	Shut-in(2)
185	65.12	123.57	End Shut-in(2)
186	2387.74	124.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drlg mud 100% m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Expl. LLC.

Medicine River Ranch. D #12

124 N. Main
Attica, KS 67009

10-34s-11w Barber,KS

Job Ticket: 59925

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.11.12 @ 08:02:43

Tool Information

Drill Pipe:	Length: 4586.00 ft	Diameter: 3.80 inches	Volume: 64.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 237.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 65.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4827.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4808.00	
Shut In Tool	5.00			4813.00	
Hydraulic tool	5.00			4818.00	
Packer	5.00			4823.00	20.00 Bottom Of Top Packer
Packer	4.00			4827.00	
Stubb	1.00			4828.00	
Recorder	0.00	8790	Inside	4828.00	
Recorder	0.00	8792	Outside	4828.00	
Perforations	14.00			4842.00	
Bullnose	3.00			4845.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Expl. LLC.

Medicine River Ranch. D #12

124 N. Main
Attica, KS 67009

10-34s-11w Barber,KS

Job Ticket: 59925

DST#: 1

ATTN: Tim Pierce

Test Start: 2014.11.12 @ 08:02:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5200 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Drig mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

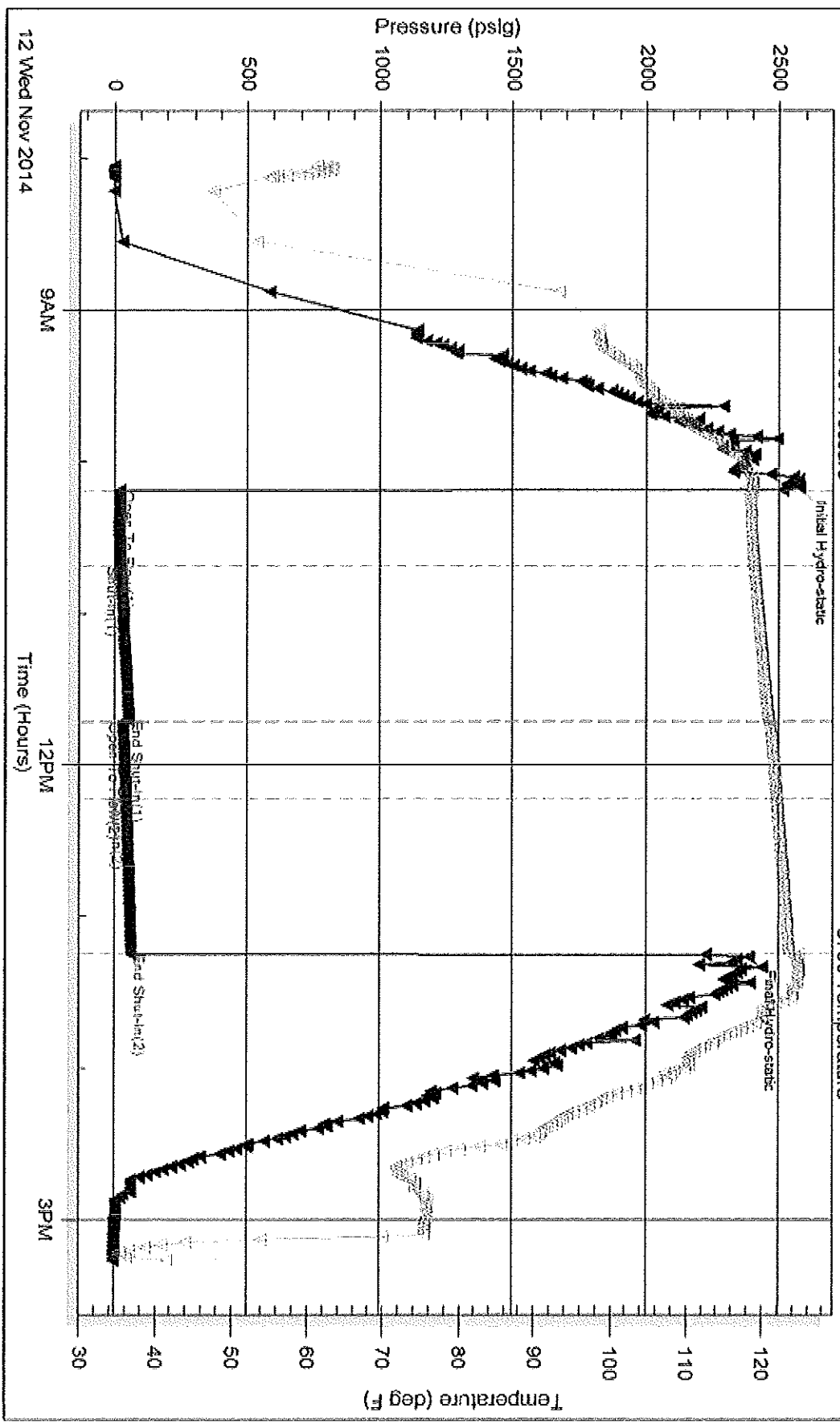
Inside

N-10 Exp. LLC.

10-345-11w Barber, KS

DST Test Number: 1

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 59925

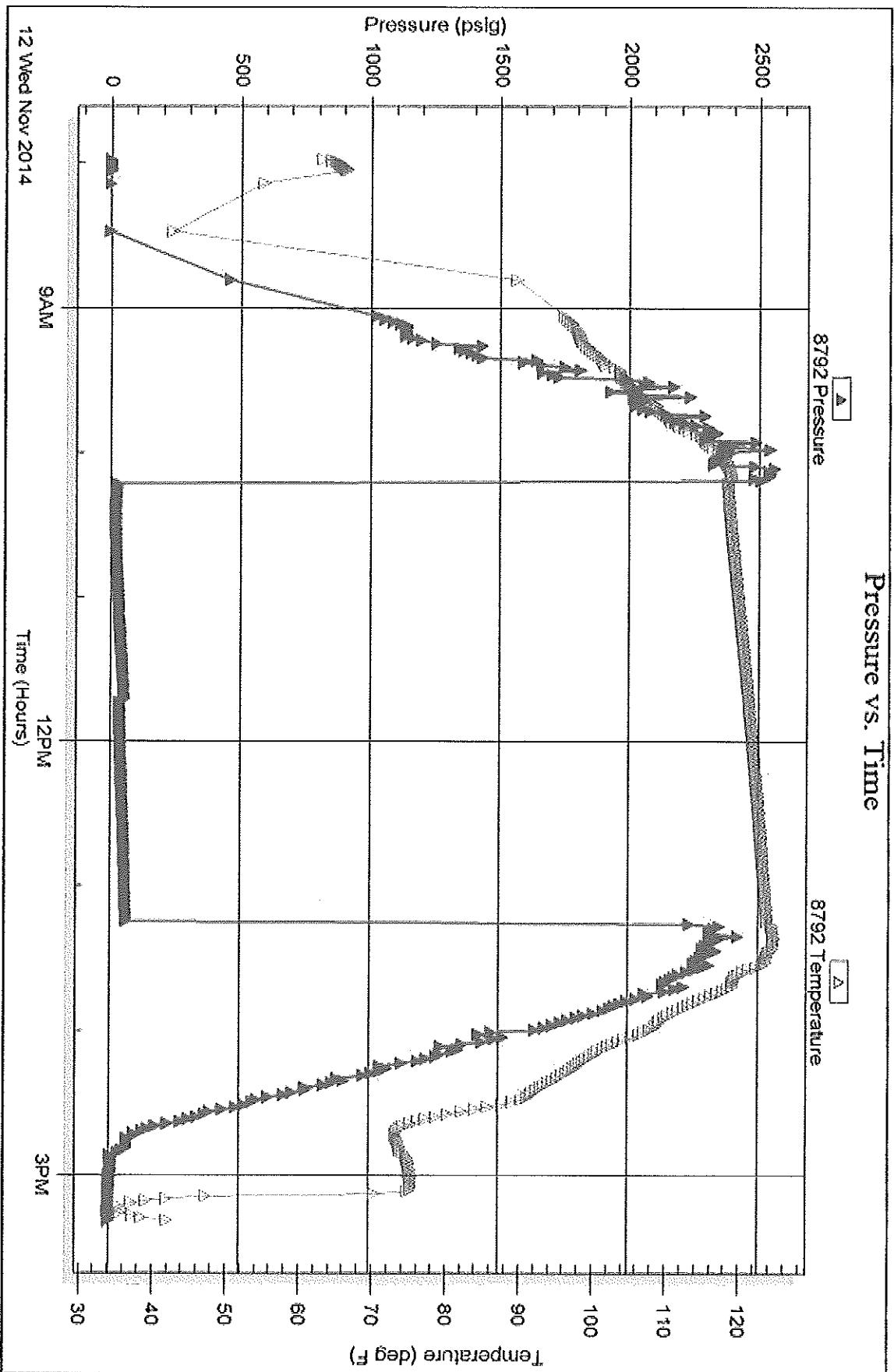
Printed: 2014 11 14 @ 09:06:44

Serial #: 8792

Outside N-10 Expl. LLC.

10-34s-11w Barber, KS

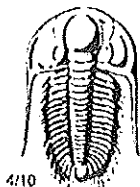
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59925

Printed: 2014.11.14 @ 09:06:44



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59925

Well Name & No. Medicine River Ranch 'D' #12 Test No. 1 Date 11-12-14
 Company N-10 Expl. LLC Elevation 1354 KB 1344 GL
 Address 124 N. Main Attecaw, KS 67007
 Co. Rep / Geo. Tim Pierce Rig Hardt
 Location: Sec. 10 Twp. 34S Rge. 11W Co. Barber State KS

Interval Tested 4827 - 4845 Zone Tested Meisner
 Anchor Length 18 Drill Pipe Run 4586 Mud Wt. 9.3
 Top Packer Depth 4822 Drill Collars Run 237 Vis 40
 Bottom Packer Depth 4827 Wt. Pipe Run ∅ WL 8.0
 Total Depth 4845 Chlorides 5200 ppm System LCM 2th

Blow Description IF: Weak blow, surf. - Dead @ 2 min. IST: No blow.
FF: No blow. FST: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Drily mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT _____ Gravity N/C API RW N/C @ N/C °F Chlorides 5200 ppm
 (A) Initial Hydrostatic 2575 Test 1250 T-On Location 0600
 (B) First Initial Flow 21 Jars _____ T-Started 0803
 (C) First Final Flow 24 Safety Joint _____ T-Open 1011
 (D) Initial Shut-In 56 Circ Sub _____ T-Pulled 1313
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 1516
 (F) Second Final Flow 45 Mileage 104 161.20 Comments _____
 (G) Final Shut-In 65 Sampler _____
 (H) Final Hydrostatic 2388 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1411.20
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1411.20

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.

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

ELEVATIONS

COMPANY N-10 Exploration, LLC
 LEASE Medicine River Ranch 'D' #12
 FIELD Roundup South
 LOCATION NW NE NW (330' FNL & 1650' FWL)
 SEC 10 TWP 34S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 11-05-2014 COMP 11-12-2014
 RTD 4845 LTD 4848
 MUD UP 3028 TYPE MUD Chemical

KB 1354'
 DF _____
 GL 1344'
 Measurements Are All
 From Kelly Bushing

CASING

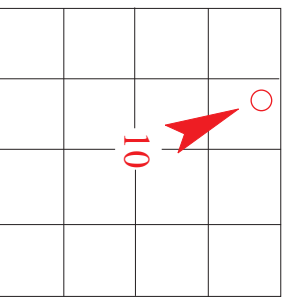
CONDUCTOR _____
 SURFACE 8-5/8" at 251'
 PRODUCTION 5-1/2" at 4844'

SAMPLES SAVED FROM 4000 TO RTD
 DRILLING TIME KEPT FROM 3950 TO RTD
 SAMPLES EXAMINED FROM 4000 TO RTD
 GEOLOGICAL SUPERVISION FROM 4040' to RTD
 GEOLOGIST ON WELL Tim Pierce

ELECTRICAL SURVEYS
DIL / CN-CD
Pioneer Energy Svcs.

FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3586 (-2232)	NA
Stark Sh.	4269 (-2915)	4267 (-2913)
Cherokee Sh.	4485 (-3131)	4484 (-3130)
Mississippi	4521 (-3167)	4519 (-3165)
Kinderhook Sh.	4724 (-3370)	4721 (-3367)
Chattanooga Sh.	4808 (-3454)	4806 (-3452)
Viola	NA	4844 (-3490)


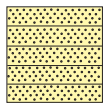
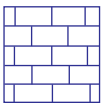
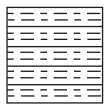

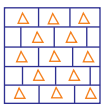

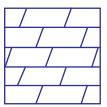


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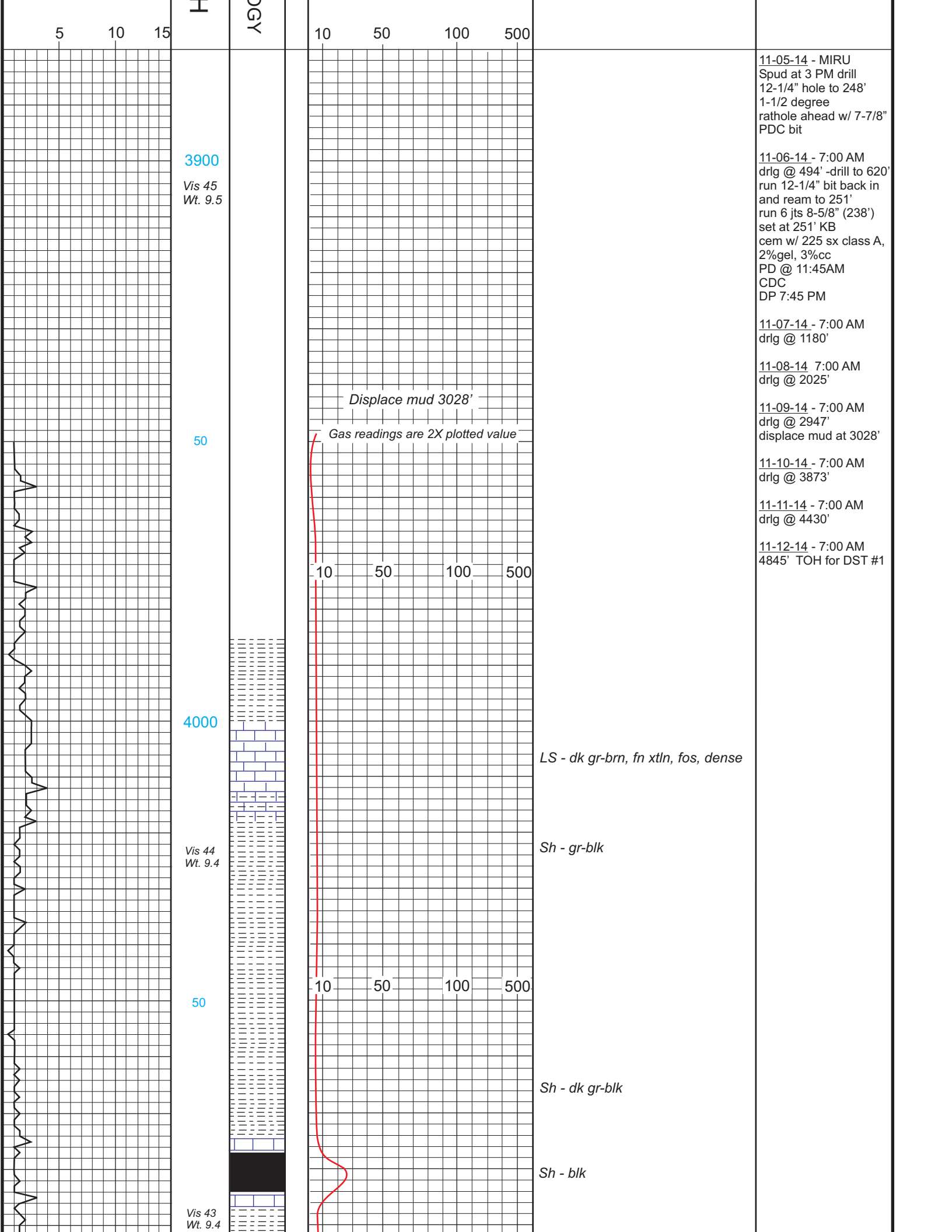
REMARKS Samples and electric logs indicate a probable productive zone in the Mississippi from 4521'- 4545'.
A slight show in the Meisner sand was tested with negative results, there was a slight show of gas in the Chattanooga Shale, and
a slight show of oil in the Cherokee sand. Electric logs indicate the Cherokee and Chattanooga are most likely non productive.
There were no other zones of interest indicated by samples or electric logs

Timothy G. Pierce

LEGEND

							
Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases →	DEPTH	LITHOLOG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS



5 10 15

3900
Vis 45
Wt. 9.5

50

4000

Vis 44
Wt. 9.4

50

Vis 43
Wt. 9.4

10 50 100 500

10 50 100 500

10 50 100 500

Displace mud 3028'

Gas readings are 2X plotted value

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

Sh - gr-blk

Sh - dk gr-blk

Sh - blk

11-05-14 - MIRU
Spud at 3 PM drill
12-1/4" hole to 248'
1-1/2 degree
rathole ahead w/ 7-7/8"
PDC bit

11-06-14 - 7:00 AM
drlg @ 494' -drill to 620'
run 12-1/4" bit back in
and ream to 251'
run 6 jts 8-5/8" (238')
set at 251' KB
cem w/ 225 sx class A,
2%gel, 3%cc
PD @ 11:45AM
CDC
DP 7:45 PM

11-07-14 - 7:00 AM
drlg @ 1180'

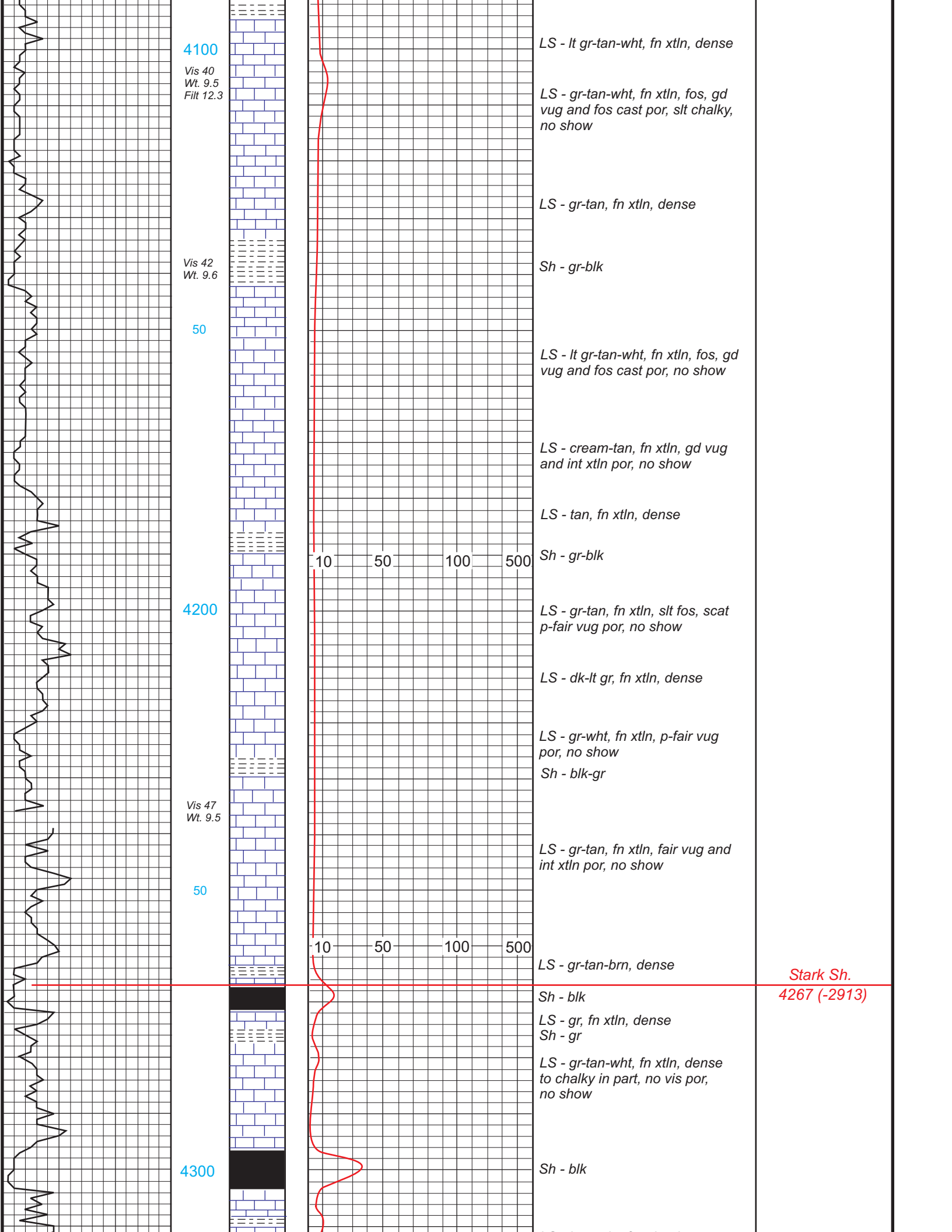
11-08-14 7:00 AM
drlg @ 2025'

11-09-14 - 7:00 AM
drlg @ 2947'
displace mud at 3028'

11-10-14 - 7:00 AM
drlg @ 3873'

11-11-14 - 7:00 AM
drlg @ 4430'

11-12-14 - 7:00 AM
4845' TOH for DST #1



4100

Vis 40
Wt. 9.5
Filt 12.3

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

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

LS - gr-tan, fn xtln, dense

Vis 42
Wt. 9.6

Sh - gr-blk

50

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

LS - cream-tan, fn xtln, gd vug and int xtln por, no show

LS - tan, fn xtln, dense

Sh - gr-blk

4200

LS - gr-tan, fn xtln, slt fos, scat p-fair vug por, no show

LS - dk-lt gr, fn xtln, dense

LS - gr-wht, fn xtln, p-fair vug por, no show

Sh - blk-gr

Vis 47
Wt. 9.5

LS - gr-tan, fn xtln, fair vug and int xtln por, no show

50

LS - gr-tan-brn, dense

Sh - blk

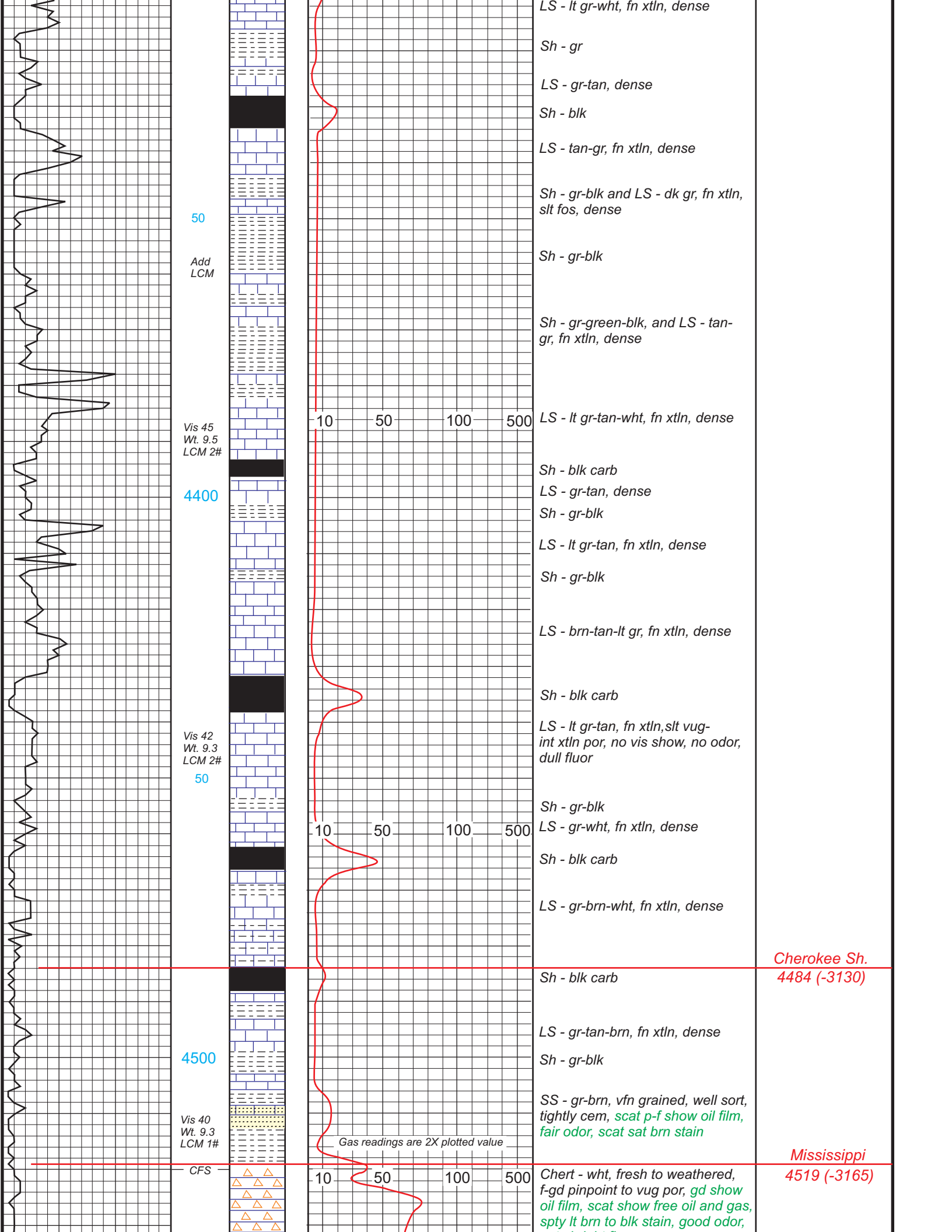
LS - gr, fn xtln, dense
Sh - gr

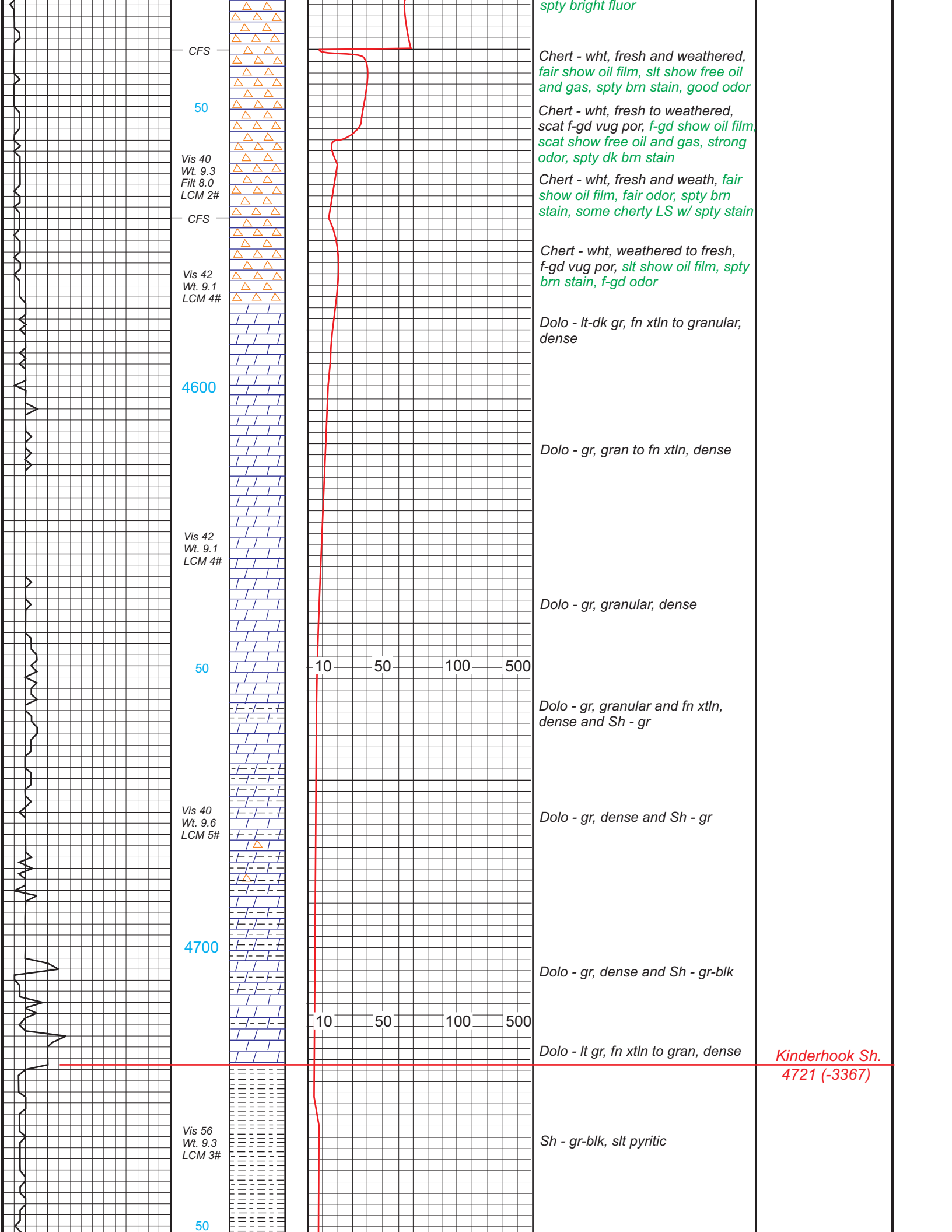
LS - gr-tan-wht, fn xtln, dense to chalky in part, no vis por, no show

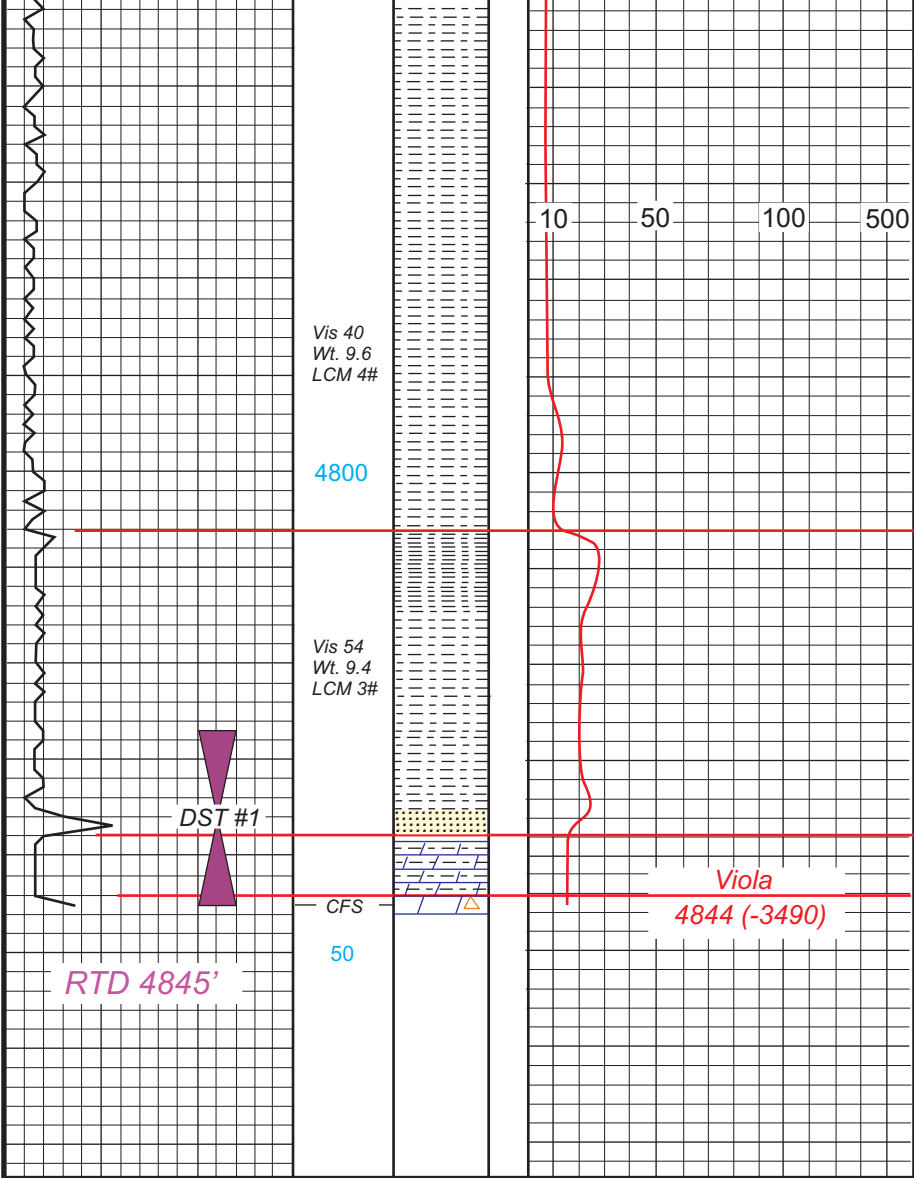
4300

Sh - blk

Stark Sh.
4267 (-2913)







Sh - blk-gr

Sh - gr-blk

Chattanooga Sh.
4806 (-3452)

Sh - blk-gr

Sh - gr-brn, silty and gritty in part,
slt show gas

SS - gr, fn grained silty to semi-fri,
small clusters w/ bright fluor,
no odor, no vis show, no vis stain

Maquoketa
4836 (-3482)

Sh - brn, dolomitic to silty

Viola
4844 (-3490)

LS/Dolo - wht-tan, fn xtn, dense,
scat wht vitreous chert

DST #1
4827-4845
30-60-30-60

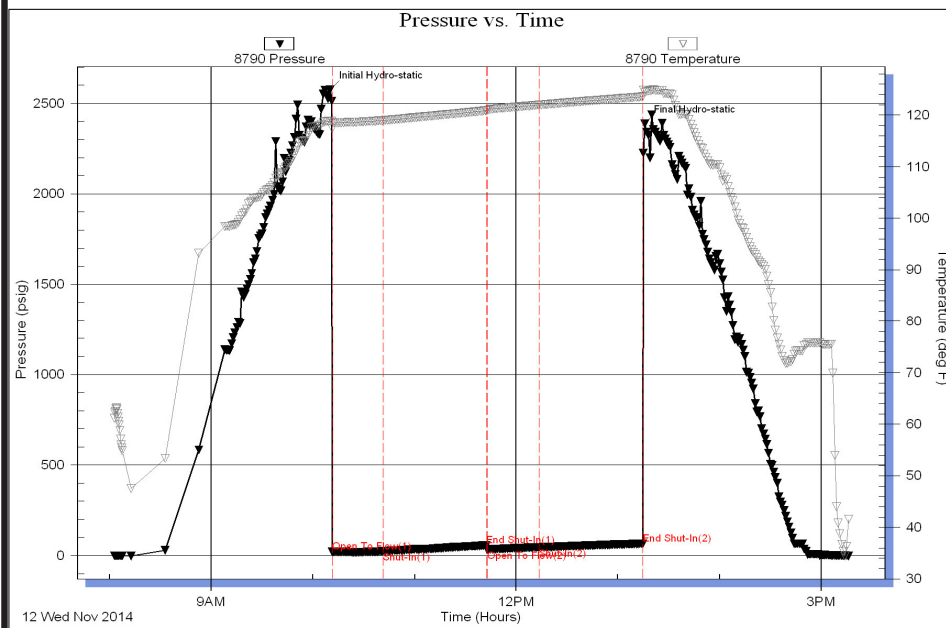
1st Open - Wk blow
died in 2 min

2nd Open - No blow

Rec - 5' mud

IFP - 21-24#
FFP - 32-45#
SIP - 56-65#
HP - 2575-2388#
BHT - 124 degrees

Serial #: 8790 Inside N-10 Expl. LLC. Med. Rvr. Rnch. D 12 DST Test Number: 1



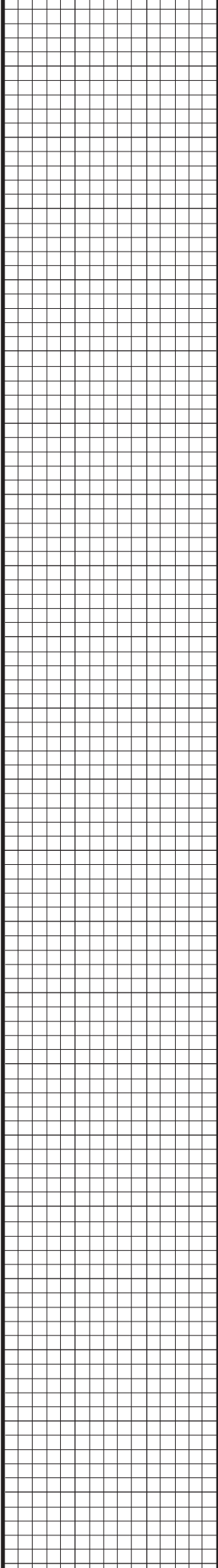
DST #1
4827-4845
30-60-30-60

1st Open - Wk blow
died in 2 min

2nd Open - No blow

Rec - 5' mud

IFP - 21-24#
FFP - 32-45#
SIP - 56-65#
HP - 2575-2388#
BHT - 124 degrees



50

Vis 56
Wt. 9.4
LCM 6#

