



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1154378



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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 059766

Federal Tax ID # 20-5375304

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

SERVICE POINT:

M2 & Winkler

DATE <u>4-18-2012</u>	SEC <u>1C</u>	TRIP <u>245</u>	RANGE <u>112</u>	LOCATION <u>Gervin & Barney Rd</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>25424</u>	WELL # <u>D-11</u>				COUNTY <u>Wheeler</u>	STATE <u>OK</u>
DLD OR REW (Circle one)				<u>2 Section 94 Wells, 112 mile</u>		

CONTRACTOR NR-10 Expro
 TYPE OF JOB Service
 HOLE SIZE 13 3/4 TD 615'
 CASING SIZE 8 5/8 DEPTH 2721'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG 15'
 PERFS.
 DISPLACEMENT 16 mls Fresh Water
 EQUIPMENT

PUMP TRUCK CEMENTER DEYAN F
 # 558-555 HELPER SACTAPD.
 BULK TRUCK 351 DRIVER Busha B.
 BULK TRUCK DRIVER
 REMARKS:
Cement die certificate

CHARGE TO: NR-10 Expro
 STREET _____ STATE _____ ZIP _____
 CITY _____ STATE _____ ZIP _____

DEPTH OF JOB		2721'
PUMP TRUCK CHARGE	1512.25	
EXTRA FOOTAGE		
MILEAGE	7.70	115.50
MANIFOLD SERVICE		
LV	4.40	66.00
TOTAL		1693.75

PLUG & FLOAT EQUIPMENT

<i>None</i>		
TOTAL		

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

PRINTED NAME _____

SIGNATURE *David M. Howell*

OWNER NR-10 Expro
 CEMENT AMOUNT ORDERED 22550 Cols @ 2.13%
at 200 gal

CEMENT	COMMON	135 5K	@	179.90	2416.50
POZMIX	90 5K	@	9.35	841.50	
GEL	4 5K	@	23.40	93.60	
CHLORIDE	7 5K	@	64.00	448.00	
ASC		@			
HANDLING	246.73	@	248	599.49	
MILEAGE	12.15 / 15 / 2.60			395.85	
TOTAL				4794.94	

SERVICE

SALES TAX (If Any) _____
 TOTAL CHARGES 6488.69
 DISCOUNT NONE IF PAID IN 30 DAYS
5190.95

ALLIED OIL & GAS SERVICES, LLC

059797

200707

FEDERAL TAX I.D.# 20-5978304

PERMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 75092

SERVICE POINT:
Mishawake Lodge K5

DATE 04/25/13	SEC. 10	TWP. 34s	RANGE 11W	LOCATED	ON LOCATION	JOB START	JOB FINISH
LEASE # R R	WELL# D #11	LOCATION Garlow, Bethel West on South Canyon		COUNTY Barber	STATE KS		
OLD OR NEW (circle one)				Month	Year	Day	Month

CONTRACTOR Herd

OWNER N-10 Exploration

TYPE OF JOB Production T.D. 4835
 HOLE SIZE 7 7/8 DEPTH 4834
 CASING SIZE 5 1/2 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 IDOL DEPTH
 PRES. MAX /100 MINIMUM
 MEAS. LINE SHOE JOINT 30
 CEMENT LEFT IN CSG. 30
 BERBS.
 DISPLACEMENT 118 Bbl 2% KCl H₂O
 EQUIPMENT

CEMENT
 AMOUNT ORDERED 40s @ 40:40:40 + 4% SWS,
175s @ Class A + 10% Sulf + 5# Kalscal, 14 Gal KCl,
12 Bbl ASF

PUMP TRUCK CEMENTER Jason Thressed
 # 528/555 HELPER Joe # Rolly
 BULK TRUCK DRIVER John Bower
 BULK TRUCK DRIVER

REMARKS:

Plugs did hold

DEPTH OF JOB 4834
 PUMP TRUCK CHARGE 2765.75
 EXTRA FOOTAGE
 MILEAGE 15 @ 7.70 115.50
 MANIFOLD 4 Herd 275
 LV 15 @ 4.40 66.00

TOTAL 3090.05

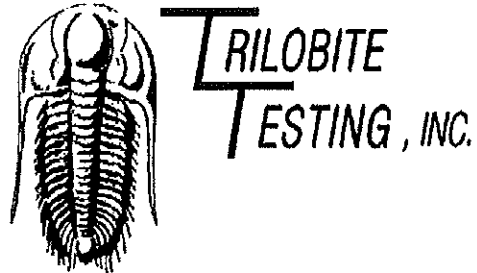
PLUG & FLOAT EQUIPMENT

<u>5 1/2</u>		
Rubber Plug	1 @ 85.41	85.41
Ce. line bases	8 @ 57.33	458.64
AEH insert	1 @ 334.62	334.62
Cable shoe	1 @ 280.80	280.80
Refracturing scratcher	1 @ 88.12	88.12
TOTAL		<u>\$1098.07</u>

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

PRINTED NAME TIM PERLE
 SIGNATURE Tim Perle

SALES TAX (if any) _____
 TOTAL CHARGES \$11,933.77
 DISCOUNT _____ IF PAID IN 30 DAYS
Net \$9,547.02



DRILL STEM TEST REPORT

Prepared For: **N-10 Exploration LLC**

124 N. Main
Attica KS 67009

ATTN: Tim Pierce

10-34s-11w Barber KS

Medicine River Ranch #D-11

Start Date: 2013.04.24 @ 23:16:52

End Date: 2013.04.25 @ 07:25:22

Job Ticket #: 50967 DST #: 1

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

Printed: 2013.04.29 @ 11:25:05

N-10 Exploration LLC Medicine River Ranch #D-11 10-34s-11w Barber KS DST # 1 Misener Sand 2013.04.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

N-10 Exploration LLC

Medicine River Ranch #D-11

124 N. Main
Attica KS 67009

10-34s-11w Barber KS

Job Ticket: 50967

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.04.24 @ 23:16:52

GENERAL INFORMATION:

Formation: **Misener Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:30:37

Time Test Ended: 07:25:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4840.00 ft (KB) To 4855.00 ft (KB) (TVD)

Total Depth: 4855.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1351.00 ft (KB)

1341.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8352

Inside

Press@RunDepth: 20.81 psig @ 4841.00 ft (KB)

Start Date: 2013.04.24

End Date:

2013.04.25

Start Time: 23:16:57

End Time:

07:25:21

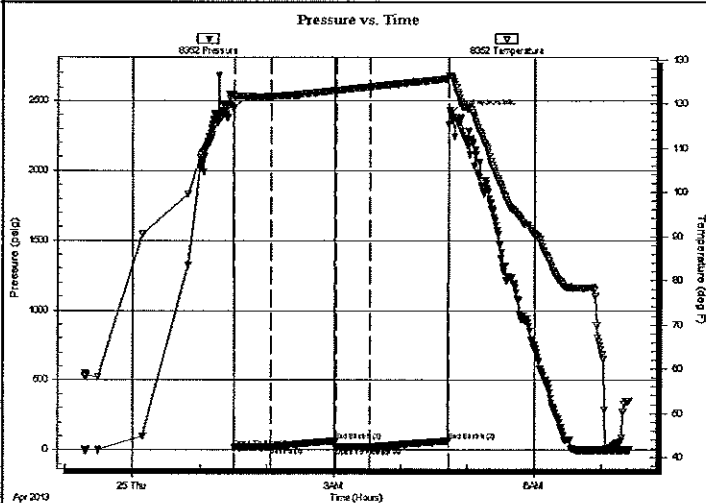
Capacity: 8000.00 psig

Last Calib.: 2013.04.25

Time On Btm: 2013.04.25 @ 01:29:37

Time Off Btm: 2013.04.25 @ 04:45:07

TEST COMMENT: IF:Weak blow . 1/2 - 1".
IS:No blow.
FF:Weak surface blow . Dead in 12 mins.
FS:No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2440.46	122.16	Initial Hydro-static
1	18.42	121.51	Open To Flow (1)
34	20.29	121.71	Shut-In(1)
92	63.54	123.04	End Shut-In(1)
92	16.45	123.02	Open To Flow (2)
122	20.81	123.87	Shut-In(2)
194	62.98	125.70	End Shut-In(2)
196	2405.78	126.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig.mud (good odor)	0.07
0.00	45 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

N-10 Exploration LLC

124 N. Main
Attica KS 67009

ATTN: Tim Pierce

Medicine River Ranch #D-11

10-34s-11w Barber KS

Job Ticket: 50967 DST#: 1

Test Start: 2013.04.24 @ 23:16:52

GENERAL INFORMATION:

Formation: **Misener Sand**

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

Time Tool Opened: 01:30:37

Time Test Ended: 07:25:22

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

Tester: **Gary Pevoteaux**

Unit No: **56**

Interval: **4840.00 ft (KB) To 4855.00 ft (KB) (TVD)**

Reference Elevations: **1351.00 ft (KB)**

Total Depth: **4855.00 ft (KB) (TVD)**

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

1341.00 ft (CF)

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

Serial #: 8370

Outside

Press@RunDepth: psig @ **4841.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2013.04.24** End Date: **2013.04.25**

Last Calib.: **2013.04.25**

Start Time: **23:12:00** End Time: **07:21:54**

Time On Btm:

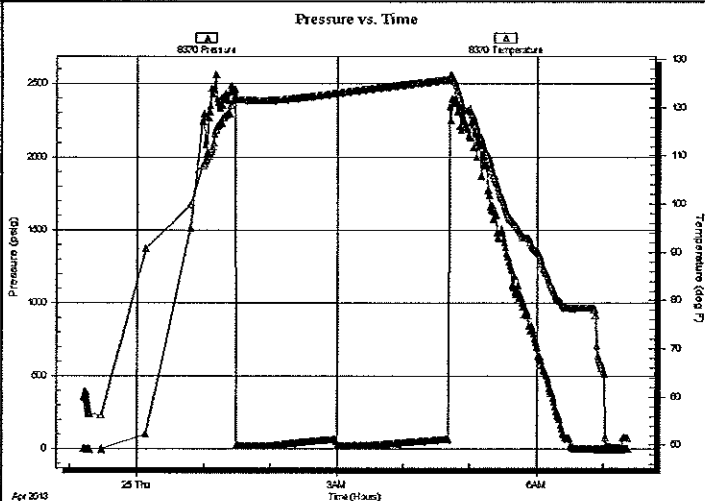
Time Off Btm:

TEST COMMENT: IF:Weak blow . 1/2 - 1".

IS:No blow .

FF:Weak surface blow . Dead in 12 mins.

FS:No blow .



PRESSURE SUMMARY

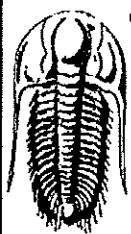
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig.mud (good odor)	0.07
0.00	45 ft.of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

N-10 Exploration LLC

Medicine River Ranch #D-11

124 N. Main
Attica KS 67009

10-34s-11w Barber KS

Job Ticket: 50967

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.04.24 @ 23:16:52

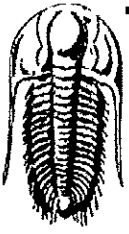
Tool Information

Drill Pipe:	Length: 4705.00 ft	Diameter: 3.80 inches	Volume: 66.00 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 66.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4840.00 ft			Final 71000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4821.00	
Shut in tool	5.00			4826.00	
HMV	5.00			4831.00	
Packer	4.00			4835.00	20.00 Bottom Of Top Packer
Packer	5.00			4840.00	
Stubb	1.00			4841.00	
Recorder	0.00	8352	Inside	4841.00	
Recorder	0.00	8370	Outside	4841.00	
Perforations	9.00			4850.00	
Bullnose	5.00			4855.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

N-10 Exploration LLC

Medicine River Ranch #D-11

124 N. Main
Attica KS 67009

10-34s-11w Barber KS

Job Ticket: 50967

DST#: 1

ATTN: Tim Pierce

Test Start: 2013.04.24 @ 23:16:52

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drig.mud (good odor)	0.074
0.00	45 ft.of GIP	0.000

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8352

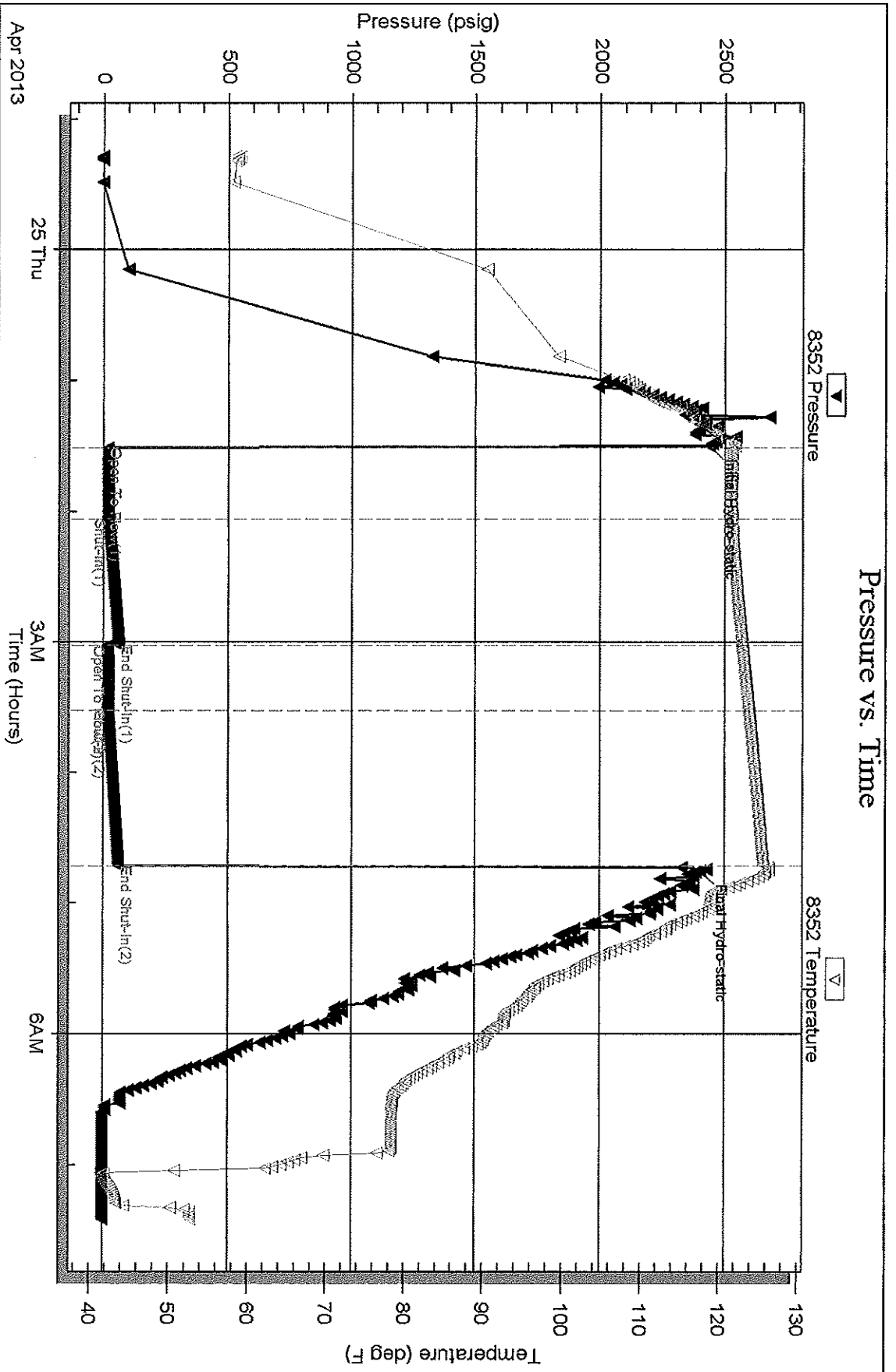
Inside

N-10 Exploration LLC

10-34s-11w Barber KS

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50967

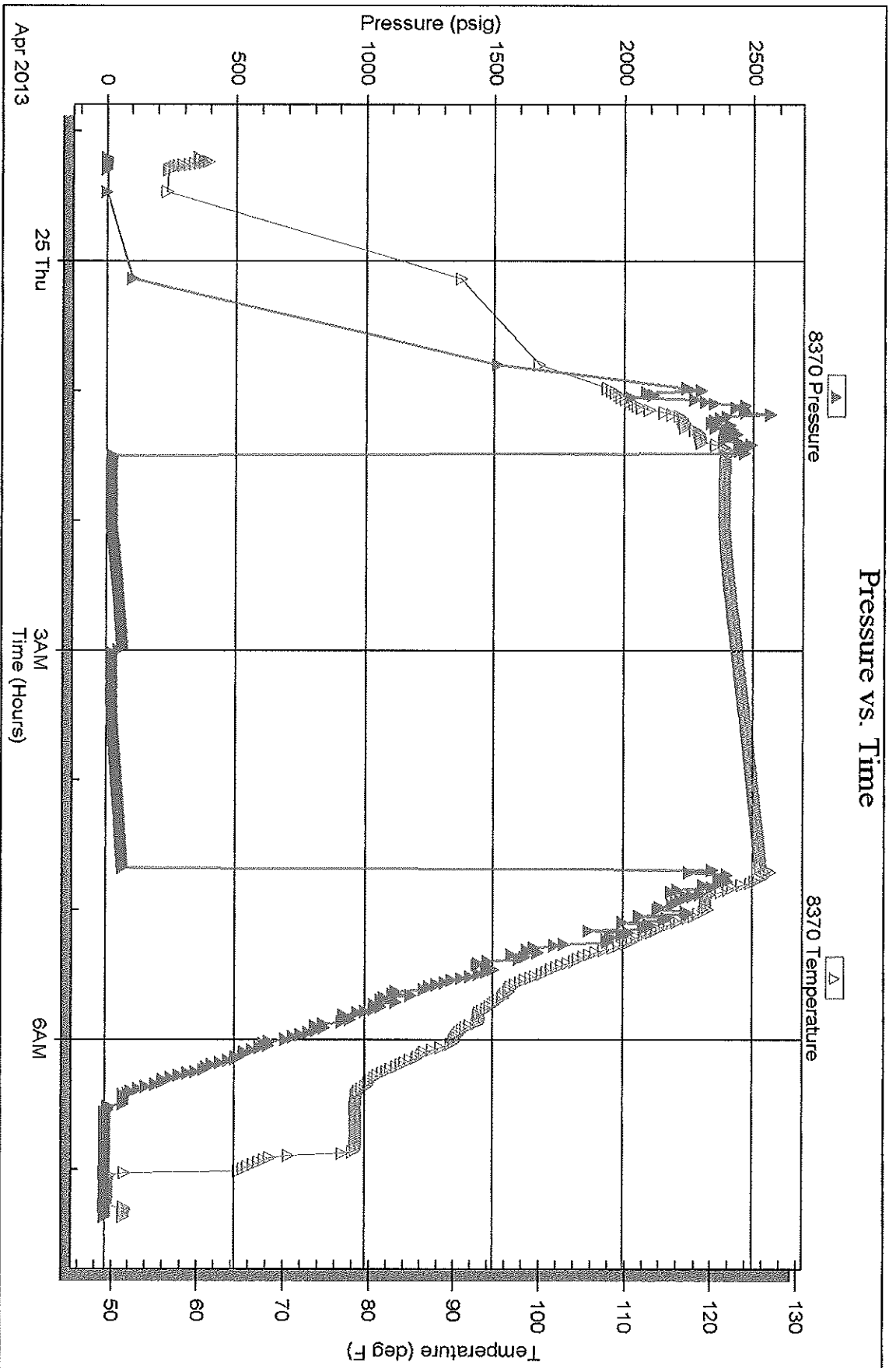
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Serial #: 8370

Outside N-10 Exploration LLC

10-34s-11w Barber KS

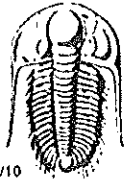
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 50967

Printed: 2013.04.29 @ 11:25:08



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50967

Well Name & No. MEDICINE RIVER RANCH D-11 Test No. 1 Date 4-24-13
 Company N-10 EXPLORATION LLC Elevation 1351 KB 1341 GL
 Address 124 N. MAIN, ATTICA KS. 67009
 Co. Rep / Geo. TIM PIERCE Rig HARDY DRILLING #1
 Location: Sec. 10 Twp. 34S Rge. 11W Co. BARBER State Ks.

Interval Tested 4840 - 4855' Zone Tested MEISNER SD
 Anchor Length 15' Drill Pipe Run 4705' Mud Wt. 9.5
 Top Packer Depth 4835' Drill Collars Run 120' Vis 50
 Bottom Packer Depth 4840' Wt. Pipe Run 0 WL 9.6cc
 Total Depth 4855' Chlorides 4,000 ppm System LCM 6#
 Blow Description IF; Water blow. 1/2 - 1" ISS; No blow.

FF; Weak surface blow. Dead in 12 mins. FSI; No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>G-SP</u>				
<u>15</u>	<u>Daily Mud (good color)</u>				

Rec Total 15 FEWD BHT 116' Gravity N/A API RW N.C. @ ~ ° F Chlorides 4,000 ppm
 (A) Initial Hydrostatic 2440 Test 1250 T-On Location 2240
 (B) First Initial Flow 18 Jars _____ T-Started 2316
 (C) First Final Flow 20 Safety Joint _____ T-Open 0130
 (D) Initial Shut-In 64 Circ Sub _____ T-Pulled 0430
 (E) Second Initial Flow 16 Hourly Standby _____ T-Out 0725
 (F) Second Final Flow 21 Mileage (110) 170.50 Comments _____
 (G) Final Shut-In 63 Sampler _____
 (H) Final Hydrostatic 2406 Straddle _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Sub Total 1420.50 Accessibility _____
 Total 1420.50 MP/DST Disc't _____

Approved By Tim Pierce Our Representative Cam P... ..

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY N-10 Exploration, LLC
 LEASE Medicine River Ranch 'D' #11
 FIELD Landis
 LOCATION E/2 NW NE
 SEC 10 TWP 34S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 4-18-2013 COMP 4-25-2013
 RTD 4855 LTD 4851
 MUD UP 3162 TYPE MUD Chemical
 SAMPLES SAVED FROM 4000 TO RTD
 DRILLING TIME KEPT FROM 3900 TO RTD
 SAMPLES EXAMINED FROM 4000 TO RTD
 GEOLOGICAL SUPERVISION FROM 4050' to RTD
 GEOLOGIST ON WELL Tim Pierce

ELEVATIONS

KB 1351'
 DF _____
 GL 1341'
 Measurements Are All From Kelly Bushing

CASING

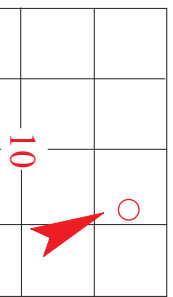
CONDUCTOR _____
 SURFACE 8-5/8" at 266'
 PRODUCTION 5-1/2" at 4844'

ELECTRICAL SURVEYS

DIL / CN-CD
Pioneer Energy Svcs.

FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
<u>Latan LS.</u>	<u>3868 (-2517)</u>	<u>3945 (-2594)</u>
<u>Stark Sh.</u>	<u>4273 (-2922)</u>	<u>4279 (-2928)</u>
<u>Cherokee Sh.</u>	<u>4488 (-3137)</u>	<u>4493 (-3142)</u>
<u>Mississippi</u>	<u>4523 (-3172)</u>	<u>4544 (-3193)</u>
<u>Kinderhook Sh.</u>	<u>4726 (-3375)</u>	<u>4731 (-3380)</u>
<u>Chattanooga Sh.</u>	<u>4810 (-3459)</u>	<u>4815 (-3464)</u>


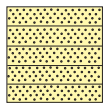
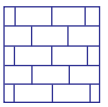
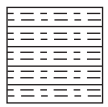

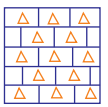
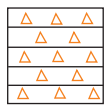
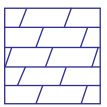


API # 15-007-23,997

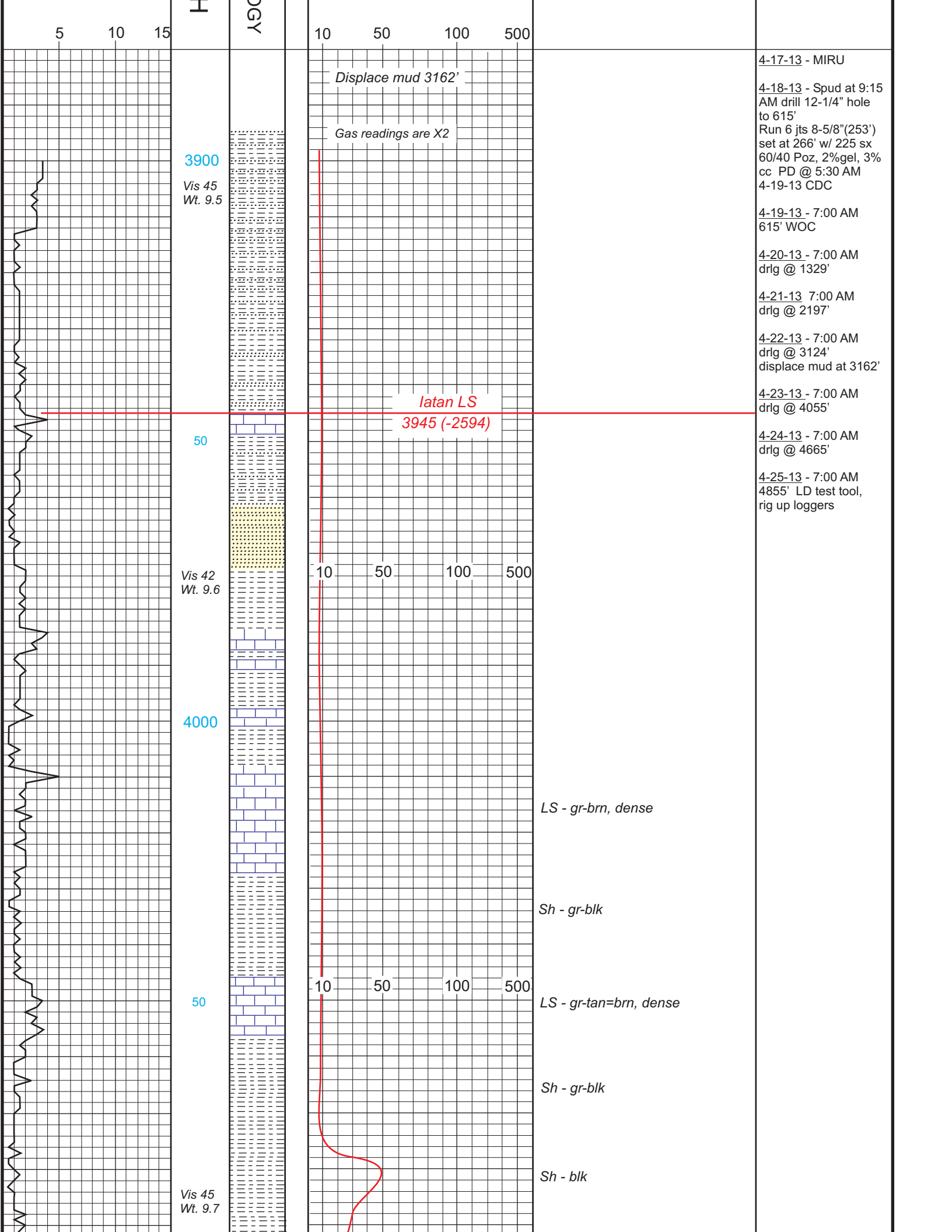
REMARKS Samples and electric logs indicate a productive zone in the Mississippi from 4527'- 4601'.
Samples indicated a show in the cherokee sand at 4517'-4520', this was accompanied by a good gas kick, logs show a possible zone.
The gas detector indicated a possible zone in the Pawnee LS at 4444'- 4448', electric logs confirm this also
A slight sample show was logged as coming from the Swope zone at 4290', however electric logs do not indicate any type of zone development in the Swope. Logs indicate a porosity zone in the Hertha zone at 4316'- 4319' so the sample show logged from the Swope zone could have possibly come from the Hertha zone. This should be examined before the well is abandoned.
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 <small>Rate of Penetration Decreases</small>	DEPTH	LITHOLOG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
↓					



5 10 15

H

OGY

10 50 100 500

Displace mud 3162'

Gas readings are X2

3900
Vis 45
Wt. 9.5

50

Vis 42
Wt. 9.6

4000

50

Vis 45
Wt. 9.7

latan LS
3945 (-2594)

10 50 100 500

10 50 100 500

LS - gr-brn, dense

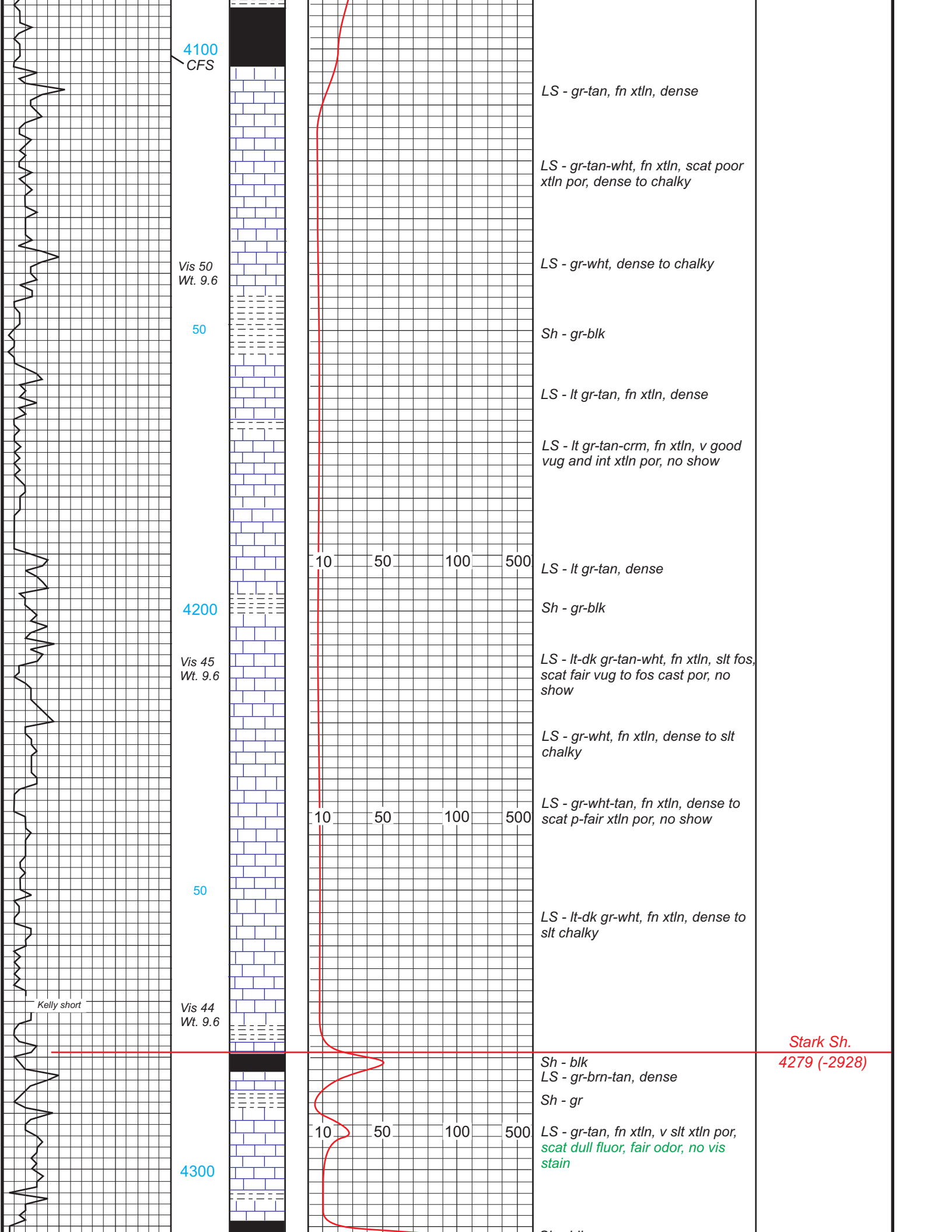
Sh - gr-blk

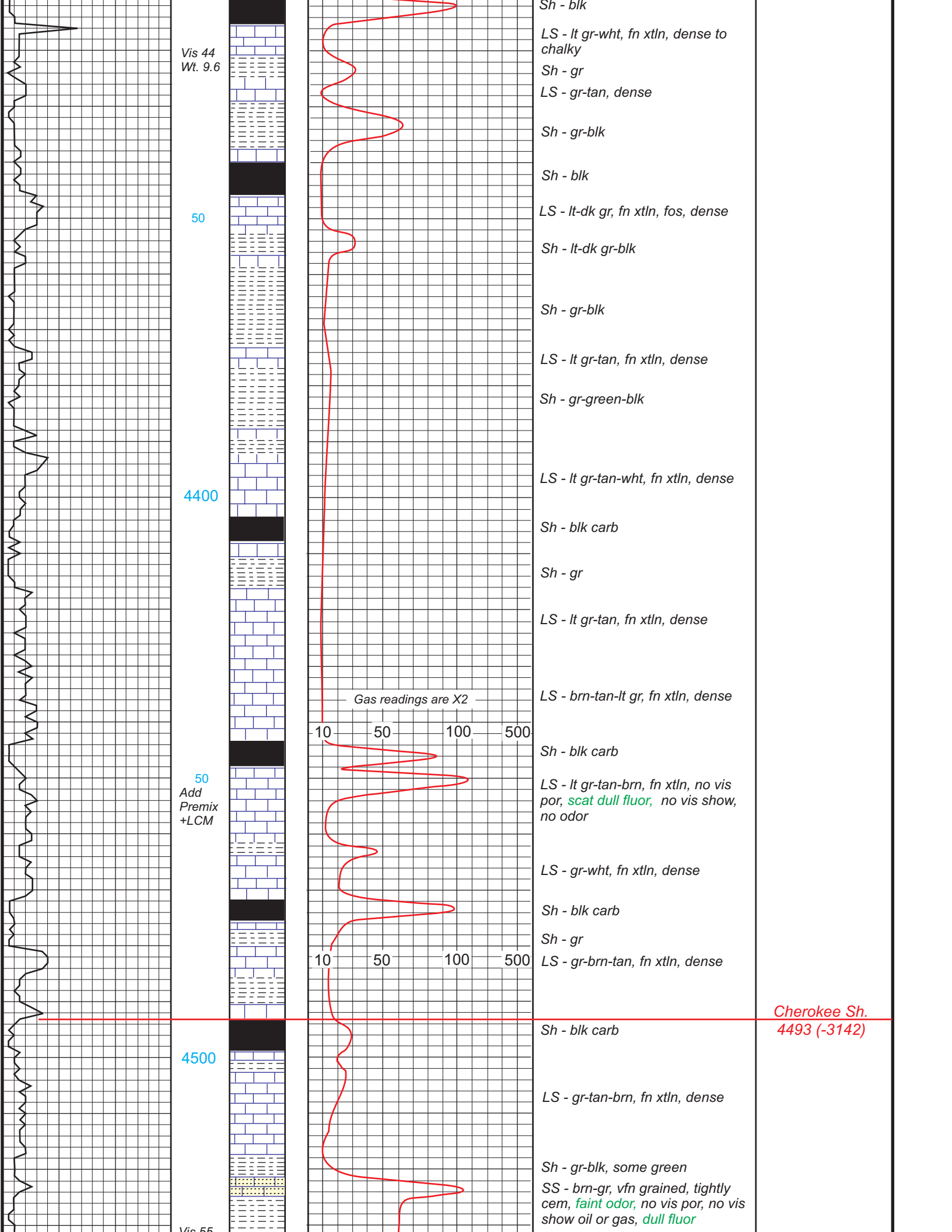
LS - gr-tan=brn, dense

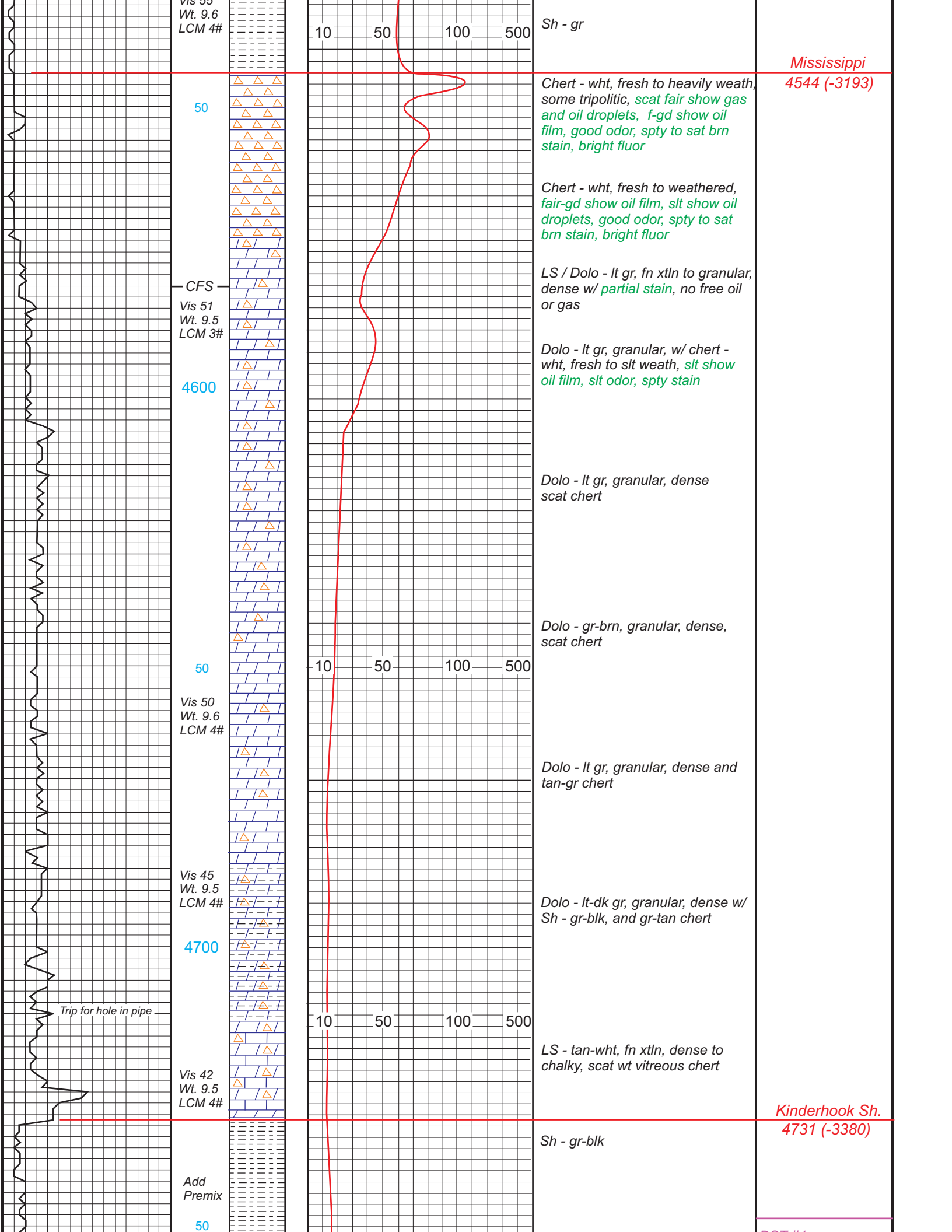
Sh - gr-blk

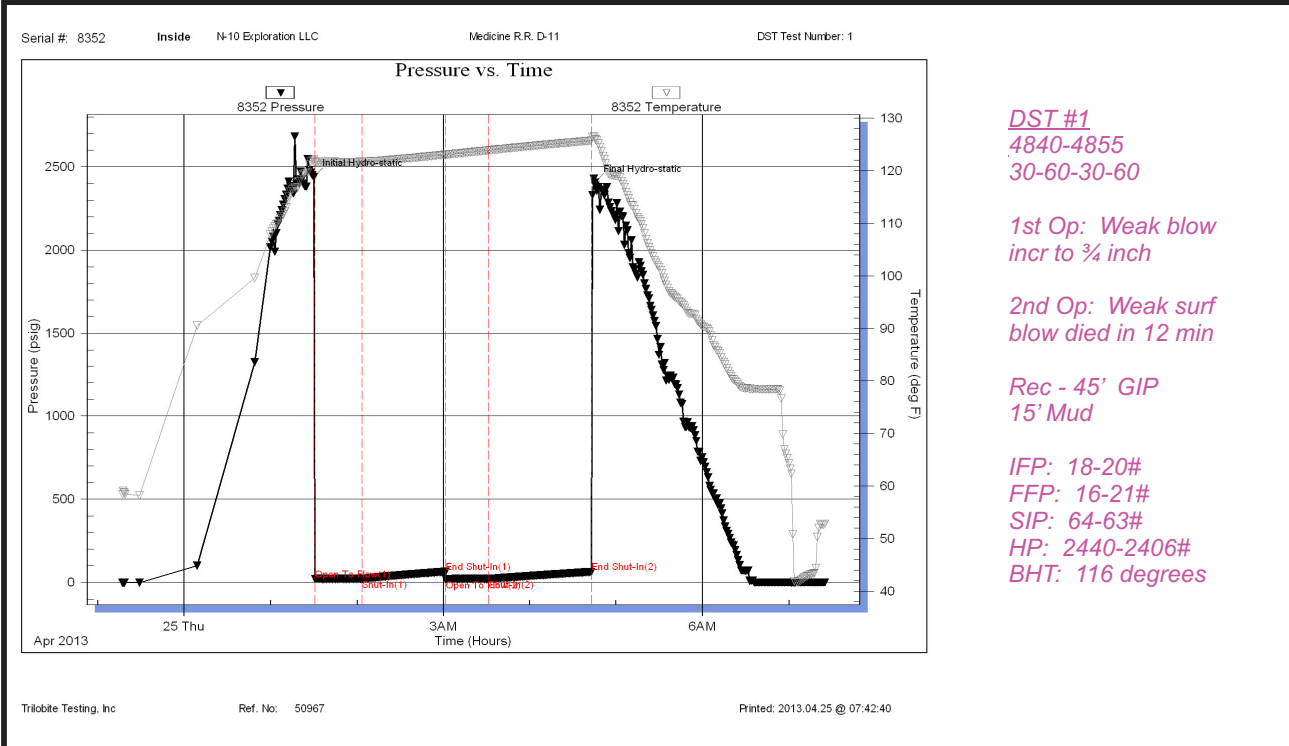
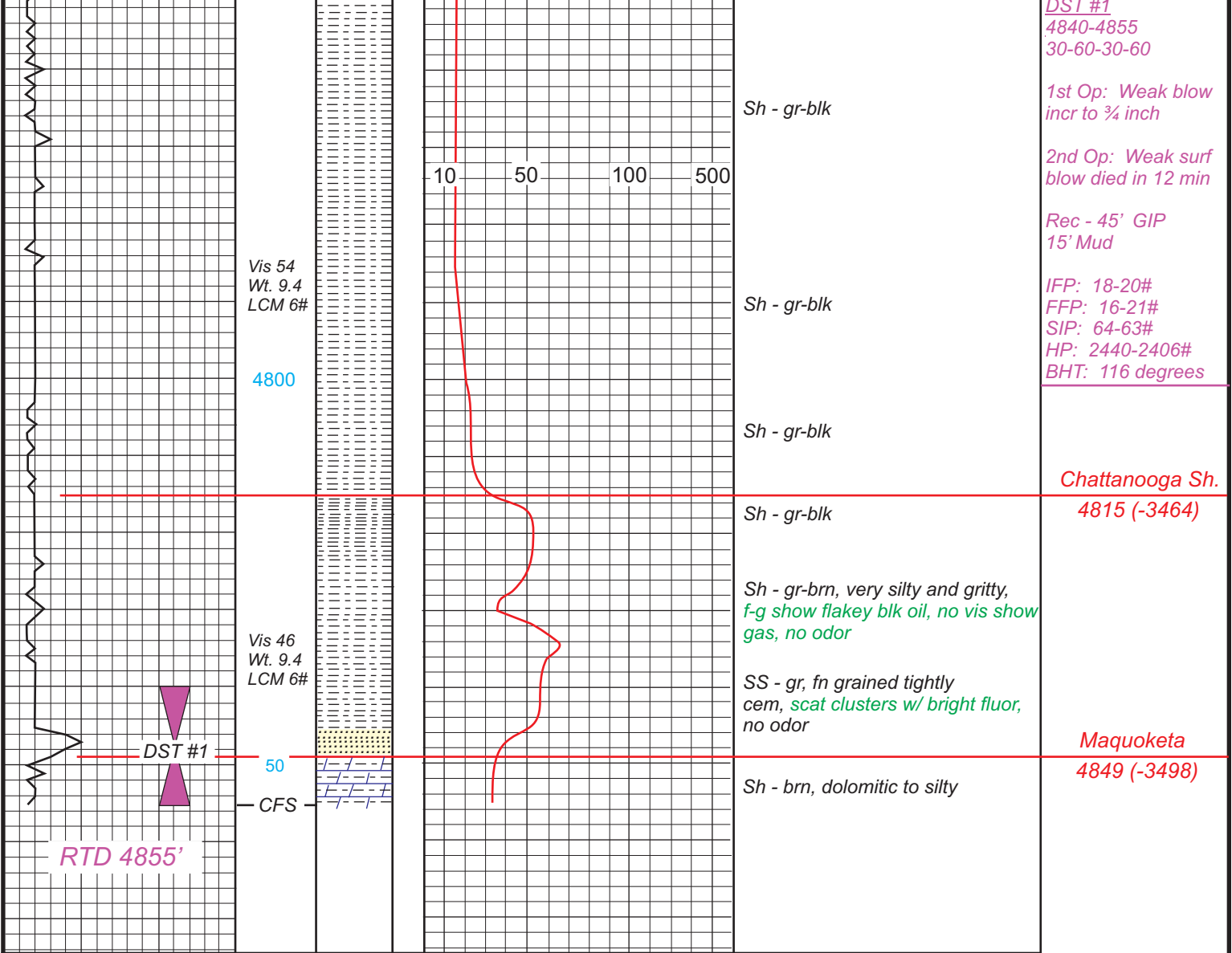
Sh - blk

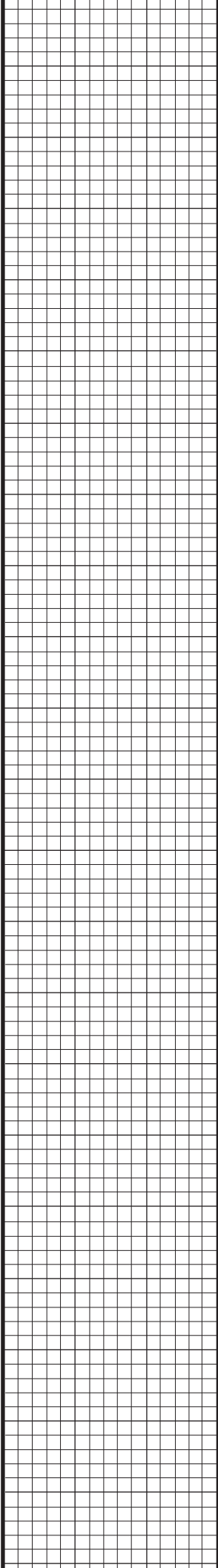
4-17-13 - MIRU
4-18-13 - Spud at 9:15 AM drill 12-1/4" hole to 615'
Run 6 jts 8-5/8"(253') set at 266' w/ 225 sx 60/40 Poz, 2%gel, 3% cc PD @ 5:30 AM
4-19-13 CDC
4-19-13 - 7:00 AM 615' WOC
4-20-13 - 7:00 AM drlg @ 1329'
4-21-13 7:00 AM drlg @ 2197'
4-22-13 - 7:00 AM drlg @ 3124' displace mud at 3162'
4-23-13 - 7:00 AM drlg @ 4055'
4-24-13 - 7:00 AM drlg @ 4665'
4-25-13 - 7:00 AM 4855' LD test tool, rig up loggers











50

Vis 56
Wt. 9.4
LCM 6#

