

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

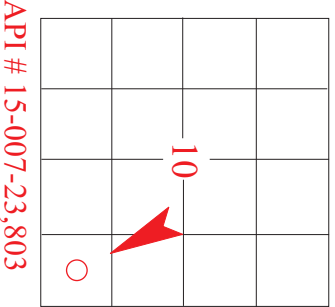
COMPANY N-10 Exploration, LLC
 LEASE Medicine River Ranch 'D' #3
 FIELD Landis
 LOCATION SE SE
 SEC 10 TWP 34S RGE 11W
 COUNTY Barber STATE Kansas
 CONTRACTOR Hardt Drilling Rig #1
 SPUD 11-17-2011 COMP 11-27-2011
 RTD 5102 LTD 5100
 MUD UP 2861 TYPE MUD Chemical
 SAMPLES SAVED FROM 4100 TO RTD
 DRILLING TIME KEPT FROM 4000 TO RTD
 SAMPLES EXAMINED FROM 4100 TO RTD
 GEOLOGICAL SUPERVISION FROM 3725' to RTD
 GEOLOGIST ON WELL Tim Pierce

ELEVATIONS
 KB 1380'
 DF _____
 GL 1370'
 Measurements Are All
 From Kelly Bushing

CONDUCTOR _____
 SURFACE 8-5/8" at 269'
 PRODUCTION 5-1/2" at 5094'

CASING
 ELECTRICAL SURVEYS
DIL / CN-CD
Log-Tech

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Heebner Sh.	3634 (-2254)	NA
Latan LS.	4053 (-2673)	4054 (-2674)
Stark Sh.	4318 (-2938)	4318 (-2938)
Cherokee Sh.	4537 (-3157)	4539 (-3159)
Mississippi	4575 (-3195)	4578 (-3198)
Viola	4910 (-3530)	4911 (-3531)
Simpson	5003 (-3623)	5005 (-3625)



REMARKS Samples and electric logs indicate a probable productive zone in the top of the Mississippi from 4585'-4660', this interval should be perforated and fracture treated for production.

A sample show in the Meisner Sand at 4886'-4888' was evaluated by DST with negative results

A sample show in the Viola at 4914'-4920' was evaluated by DST with negative results.

A sample show was observed in the Simpson sand at 5014'-5022', electric logs indicate a tight sand, this interval should be evaluated before the well is plugged

A gas kick was registered in the Pawnee LS from 4493'-4497', this zone should be considered before the well is plugged

A gas kick and sample show were observed in the Chattanooga Sh. at 4856'-4866', this should be considered before the well is plugged.

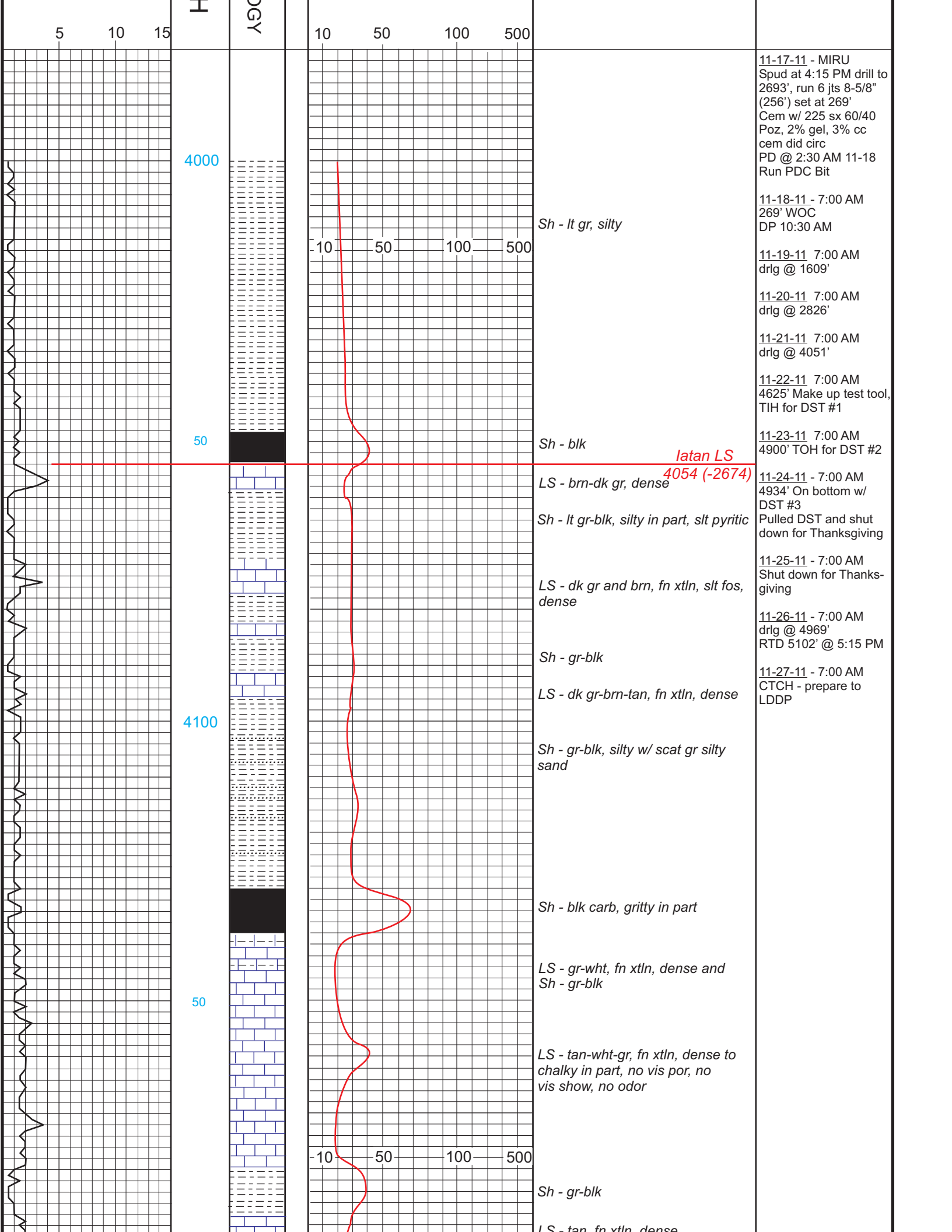
There were no other zones of interest indicated by samples or electric logs

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LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases 	DEPT	LITHOLG	GAS SCALE	SAMPLE DESCRIPTION	REMARKS
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5 10 15

4000

50

4100

50

10 50 100 500

10 50 100 500

10 50 100 500

11-17-11 - MIRU
Spud at 4:15 PM drill to
2693', run 6 jts 8-5/8"
(256') set at 269'
Cem w/ 225 sx 60/40
Poz, 2% gel, 3% cc
cem did circ
PD @ 2:30 AM 11-18
Run PDC Bit

Sh - lt gr, silty

11-18-11 - 7:00 AM
269' WOC
DP 10:30 AM

11-19-11 7:00 AM
drlg @ 1609'

11-20-11 7:00 AM
drlg @ 2826'

11-21-11 7:00 AM
drlg @ 4051'

11-22-11 7:00 AM
4625' Make up test tool,
TIH for DST #1

Sh - blk

11-23-11 7:00 AM
4900' TOH for DST #2

LS - brn-dk gr, dense

latan LS
4054 (-2674)

11-24-11 - 7:00 AM
4934' On bottom w/
DST #3
Pulled DST and shut
down for Thanksgiving

Sh - lt gr-blk, silty in part, slt pyritic

11-25-11 - 7:00 AM
Shut down for Thanks-
giving

LS - dk gr and brn, fn xtln, slt fos,
dense

11-26-11 - 7:00 AM
drlg @ 4969'
RTD 5102' @ 5:15 PM

Sh - gr-blk

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

11-27-11 - 7:00 AM
CTCH - prepare to
LDDP

Sh - gr-blk, silty w/ scat gr silty
sand

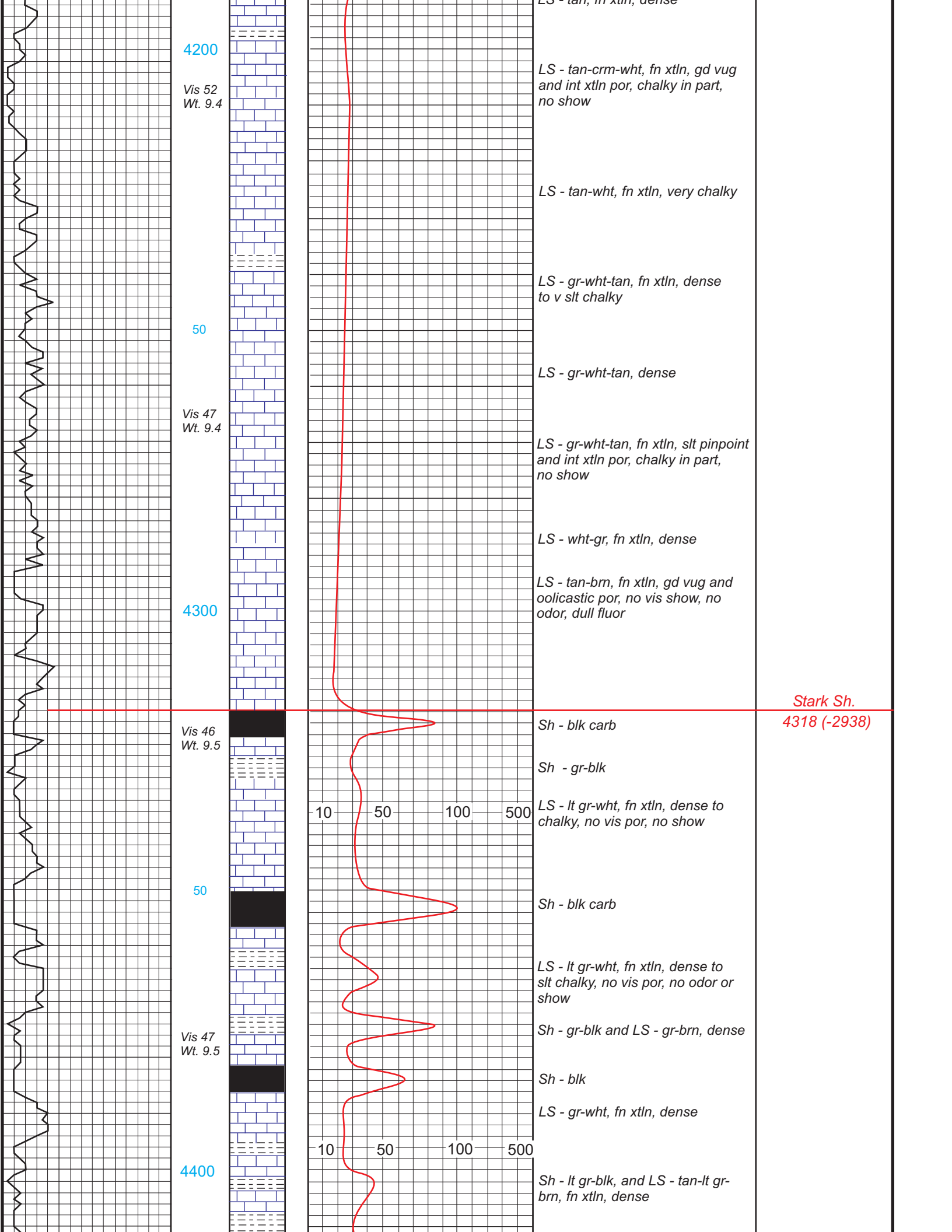
Sh - blk carb, gritty in part

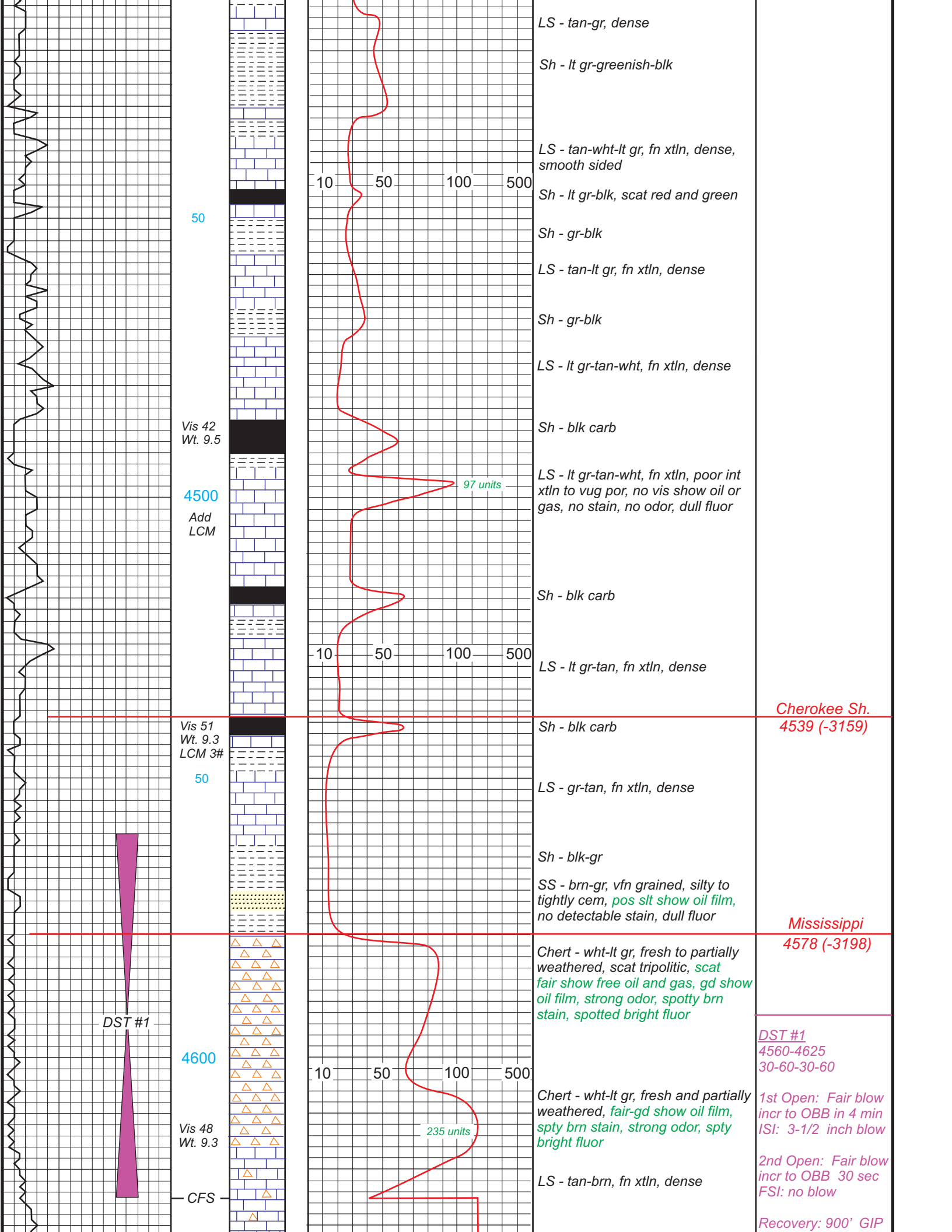
LS - gr-wht, fn xtln, dense and
Sh - gr-blk

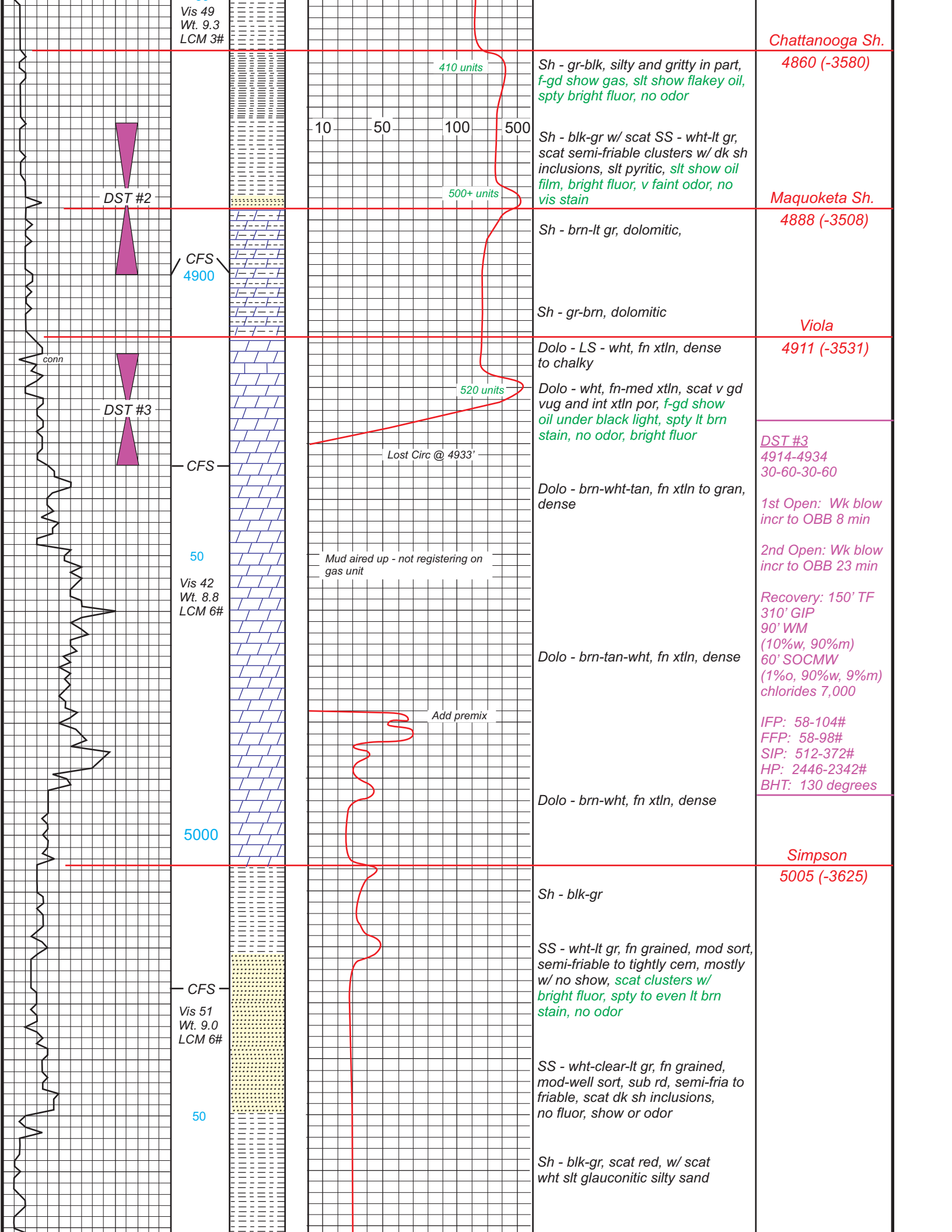
LS - tan-wht-gr, fn xtln, dense to
chalky in part, no vis por, no
vis show, no odor

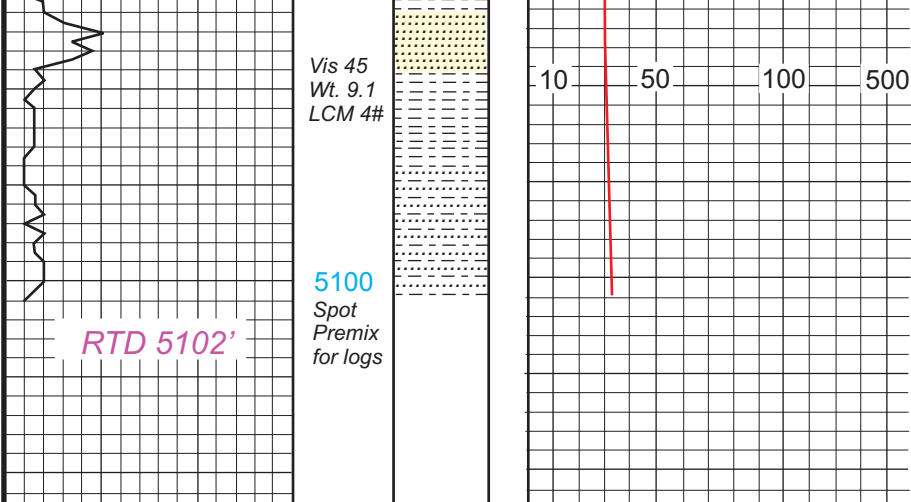
Sh - gr-blk

LS - tan, fn xtln, dense





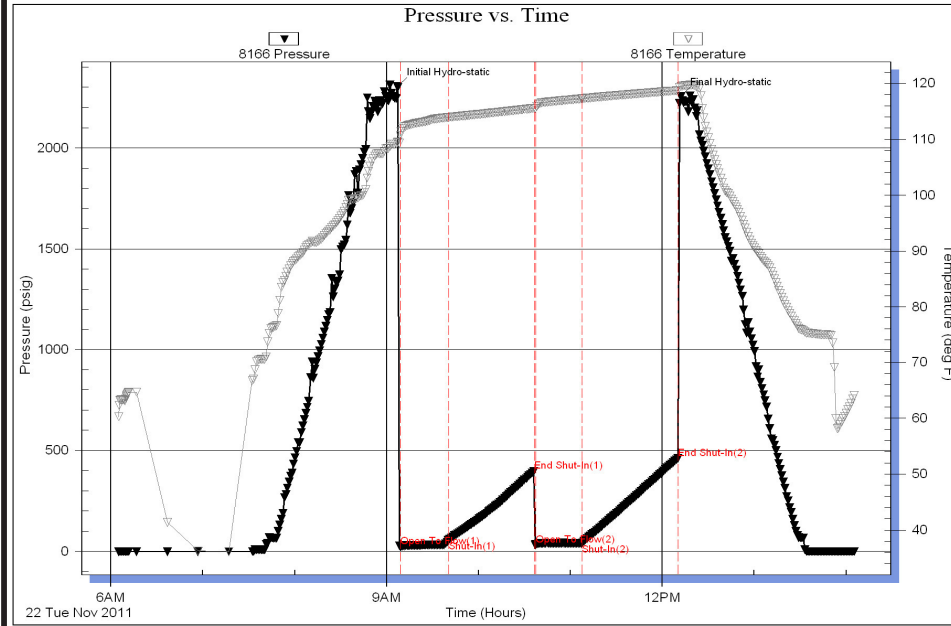




SS - wht-gr, fn grained, poorly sort,
sub ang, silty in part, friable, slt
glauconitic, slt pyritic, no show

Sh - blk-gr, w/ SS - gr-brn
silty in part, fn grained, poorly sort,
abundant dk mineral grains, no
show

Serial #: 8166 Outside N-10 Exploration LLC MedicineRiverRanchD3 DST Test Number: 1



DST #1
4560-4625
30-60-30-60

1st Open: Fair blow
incr to OBB in 4 min
ISI: 3-1/2 inch blow

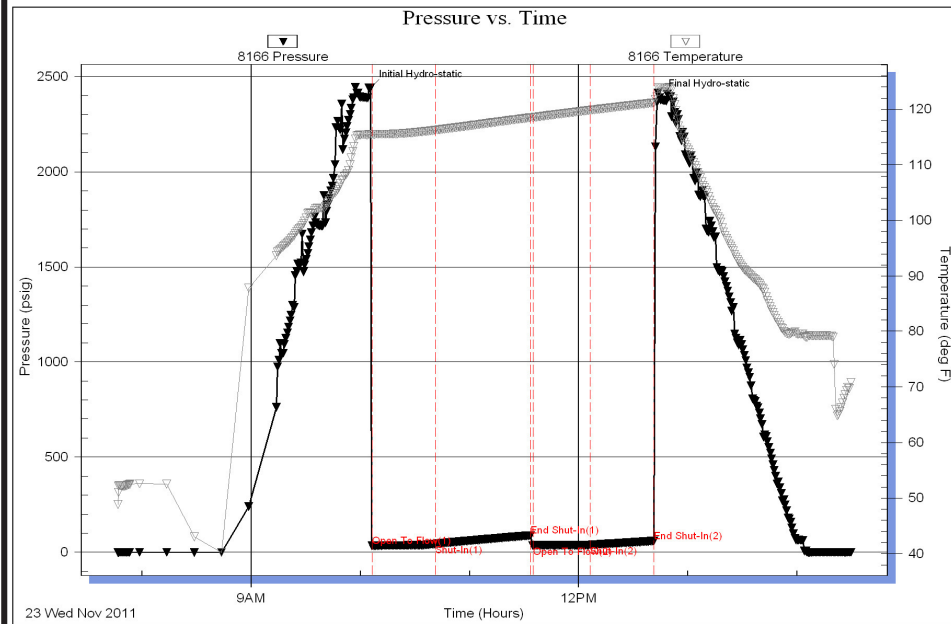
2nd Open: Fair blow
incr to OBB 30 sec
FSI: no blow

Recovery: 900' GIP
60' Gassy Mud
(2% g, 98% m)

IFP: 24-56#
FFP: 34-40#
SIP: 399-460#
HP: 2302-2254#
BHT: 120 degrees

Trilobite Testing, Inc Ref. No: 44107 Printed: 2011.11.22 @ 14:34:00

Serial #: 8166 Outside N-10 Exploration LLC MedicineRiverRanchD3 DST Test Number: 2



DST #2
4873-4900
30-60-30-30

1st Open: Wk blow
died in 30 min

2nd Open: No blow

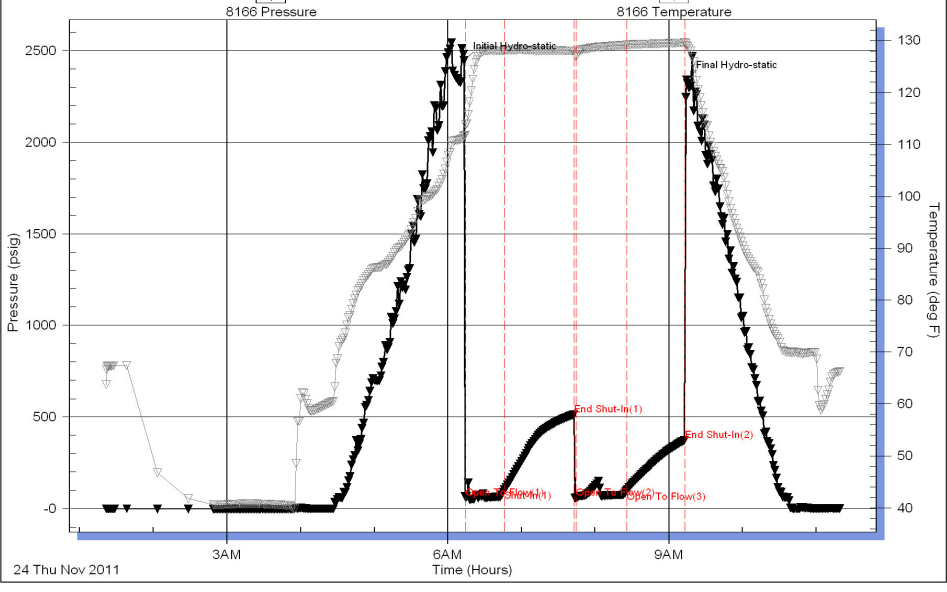
Recovery: 30' Mud

IFP: 34-43#
FFP: 34-37#
SIP: 87-58#
HP: 2436-2389#
BHT: 121 degrees

Trilobite Testing, Inc Ref. No: 44108 Printed: 2011.11.23 @ 14:50:00

Serial #: 8166 Outside N-10 Exploration LLC MedicineRiverRanchD3 DST Test Number: 3

Pressure vs. Time



DST #3
 4914-4934
 30-60-30-60

1st Open: Wk blow
 incr to OBB 8 min

2nd Open: Wk blow
 incr to OBB 23 min

Recovery: 150' TF
 310' GIP
 90' WM
 (10%w, 90%m)
 60' SOCMW
 (1%O, 90%w, 9%m)
 chlorides 7,000

IFP: 58-104#
 FFP: 58-98#
 SIP: 512-372#
 HP: 2446-2342#
 BHT: 130 degrees

