KOLAR Document ID: 1465822

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34996
Name: Stewart Producers, Inc.
Address 1: 301 N 27TH ST.
Address 2: PO BOX 546
City: MT. VERNON State: IL Zip: 62864 + 0546
Contact Person: Mark Thompson
Phone: (316) 734-3141
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Aaron Young
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

05/08/2019 Spud Date or Recompletion Date
05/14/2019 Date Reached TD
05/14/2019 Completion Date or Recompletion Date

API No.: 15-197-20309-00-00
Spot Description:
NW - SE - NE - NW Sec. 24 Twp. 14 S. R. 11 ☑ East ☐ West
840 Feet from ☑ North / ☐ South Line of Section
2305 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Wabaunsee
Lease Name: JR RANCH Well #: 1
Field Name:
Producing Formation: N/A
Elevation: Ground: 1395 Kelly Bushing: 1404
Total Vertical Depth: 3280 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 301 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 301
feet depth to: 0 w/ 180 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 1100 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
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** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 07/16/2019

Operator Name: Stewart Producers, Inc. Lease Name: JR RANCH Well #: 1

Sec. 24 Twp. 14 S. R. 11 ☑ East ☐ West County: Wabaunsee

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	301	Class A	180	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Stewart Producers, Inc.
Well Name	JR RANCH 1
Doc ID	1465822

All Electric Logs Run

DIL
Comp. Dens./Neutron/PE
Micro
Sonic

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Operator	Stewart Producers, Inc.
Well Name	JR RANCH 1
Doc ID	1465822

Tops

Name	Top	Datum
Lansing	1424	-20
KC	1594	-190
BKC	1787	-383
Miss.	2458	-1054
Hunton	2939	-1535
Viola	3088	-1684
Simpson Sh.	3196	-1792
Arbuckle	3271	-1867

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	301	Class A	180	3% cc, 2% gel

Geologic Report

Aaron L. Young

Drilling Time and Sample Log

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	**JR Ranch #1**		
API:	**15-197-20309**		
Location:	**Section 24 - T14S - R11E**		
License Number:	**34996**	**Region:**	**Wabaunsee Co., KS**
Spud Date:	**05/08/2019**	**Drilling Completed:**	**05/14/2019**
Surface Coordinates:	**840' FNL and 2230' FWL**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1395'**	**K.B. Elevation (ft):**	**1404'**
Logged Interval (ft):	**1500' To: 3280'**	**Total Depth (ft):**	**3280'**
Formation:	**Arbuckle**		
Type of Drilling Fluid:	**Chemical - Fud Mud**		

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Stewart Producers, Inc
Address: PO Box 546
Mt. Vernon, IL 62864

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: C & G Drilling, Rig #2

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Atlas 616 PDC	6x18's	315	315	2.0
2	7-7/8	Atlas 616 PDC	6x18's	3280	2965	64.0

GENERAL DRILLING AND PUMP INFORMATION:
Drilling with 8,000 lbs. on bit and approx 110 RPM.
Running 4 stands of collars; 245'
Pumping approx 500-600 psi at standpipe @ 60 SPM

Daily Status

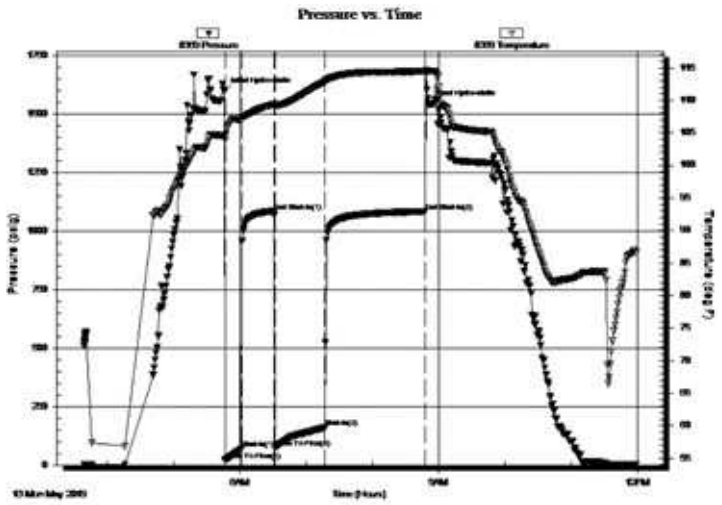
5/8/19 C&G Drilling finished moving in and rigging up. Drilled rathole, starting on surface @11:00am.
5/9/19 Drilling at 430' @ 8:15am. Drilled 315' 12-1/4" hole. Ran 300.14" of 8-5/8" surface casing. Pumped 180 sks cement. 3% calcium 2%gel. Circulated cement into pits. Plug down @9:30pm,(5/8/19). Break out nipple up drill mouse hole.
5/10/19 Drilling @ 1503' @ 7:30am. Lost circulation @ 1390, got it back, ran bit trip to clean out LCM.
5/11/19 Drilling @ 2500' @ 12:30pm. Bit plugged off again during the day, yesterday. Had to pull bit, clean and resume drilling. Penetration rate, sample tops and correlation much improved.
5/12/19 Drilling at 2960', evaluating Hunton.
5/13/19 TD 3217. Going back into hole following DST#1 (Simpson Dolomite). Simpson sand next target formation. Very poor show in Hunton. No shows in Viola.
DST#1 3202-3217 Rec. 340' very slightly oil spotted muddy water.
IFP: 21 - 70#, ISIP 1086#, FFP 76-161#, FSIP 1084#
5/14/19 TD 3280. TOH for log. Plugged w/ 15 sks @ 3130' Simpson, 15 sks @ 3020' Viola, 15 sks @ 2890' Hunton, 15 sks @ 2440' Miss, 25 sks @ 1535' KC, 35 sks @ 350', 25 sks @ 60', 30 sks in rathole, & 20 sks in

DST #1 SIMPSON DOLOMITE
3202' - 3217'

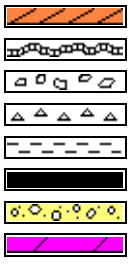
IF: Weak blow built to 6 inches
ISI: No blowback
FF: No blow built to 13 inches
FSI: No blowback

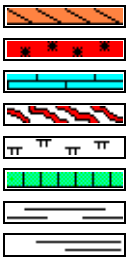
Rec'd: 340' OSSMCW (Tr O, 89% W, 11% M)

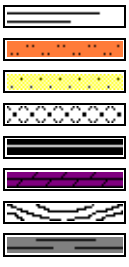
SIP: 1086-1084#
FP: 21-70#, 76-161#
HP: 1598-1545#

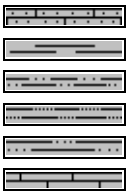


ROCK TYPES


Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol


Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol


Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh


Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING
- Well
- Moderate
- Poor

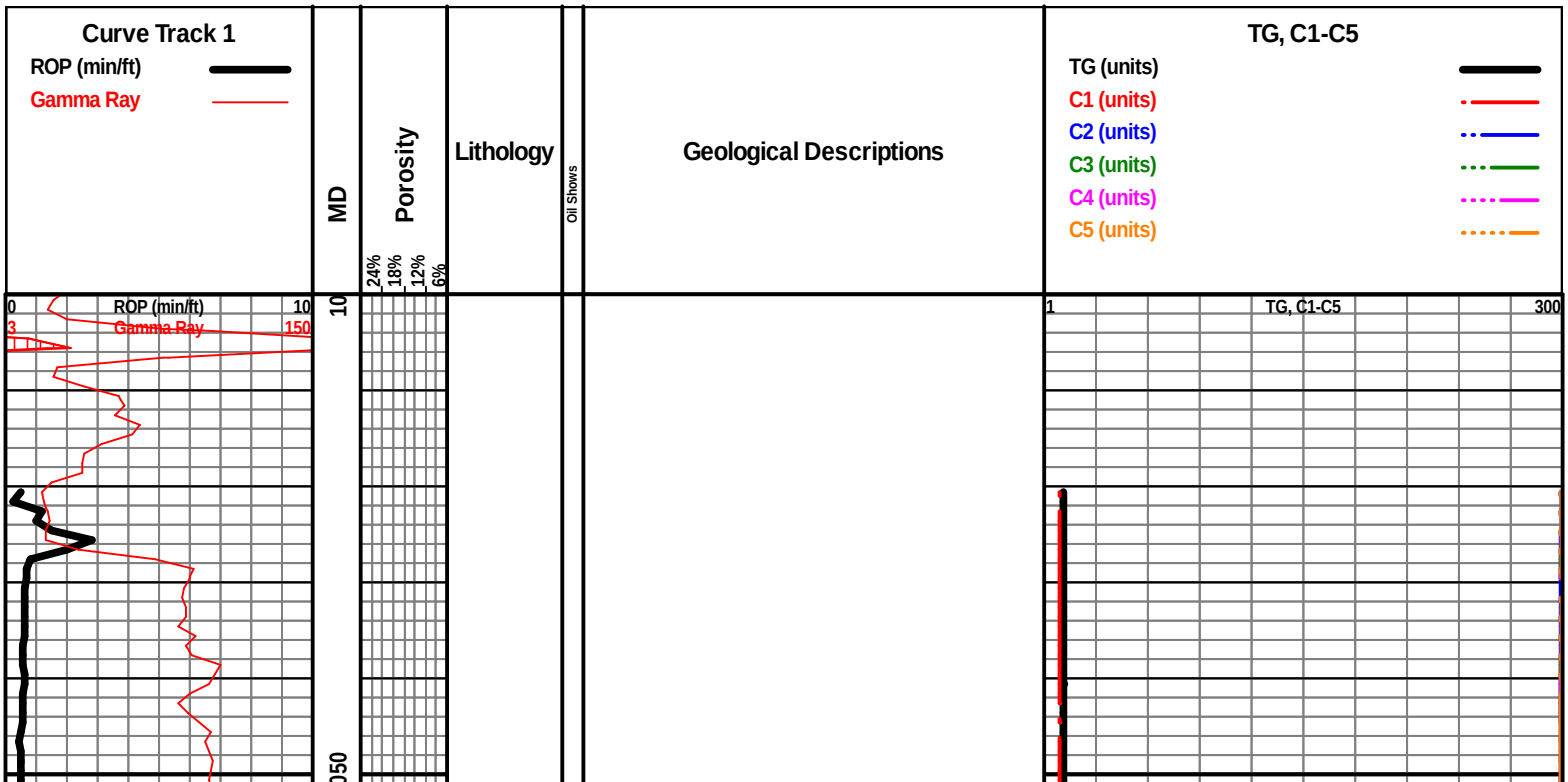
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

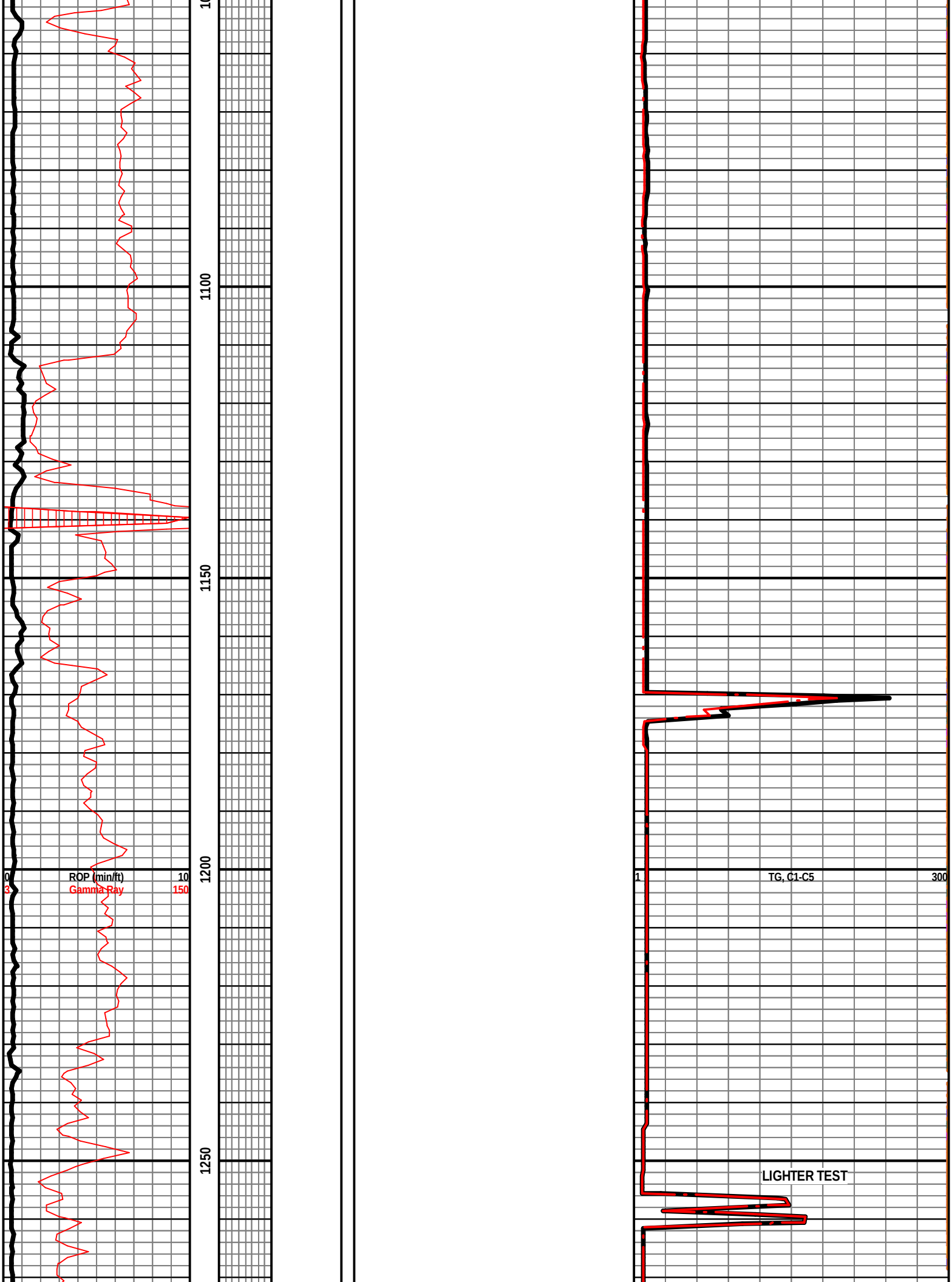
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

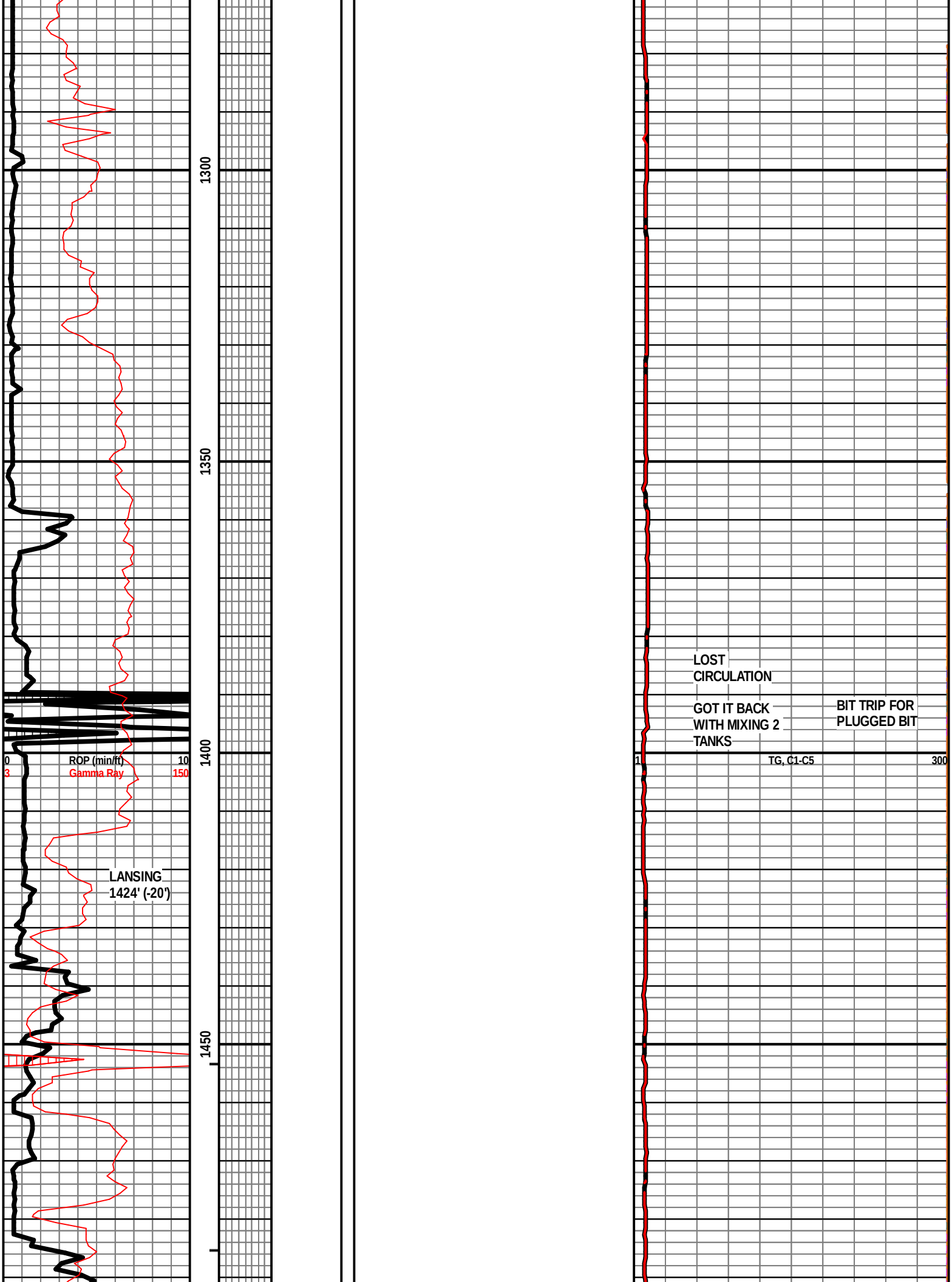
INTERVALS
- Core
- Dst

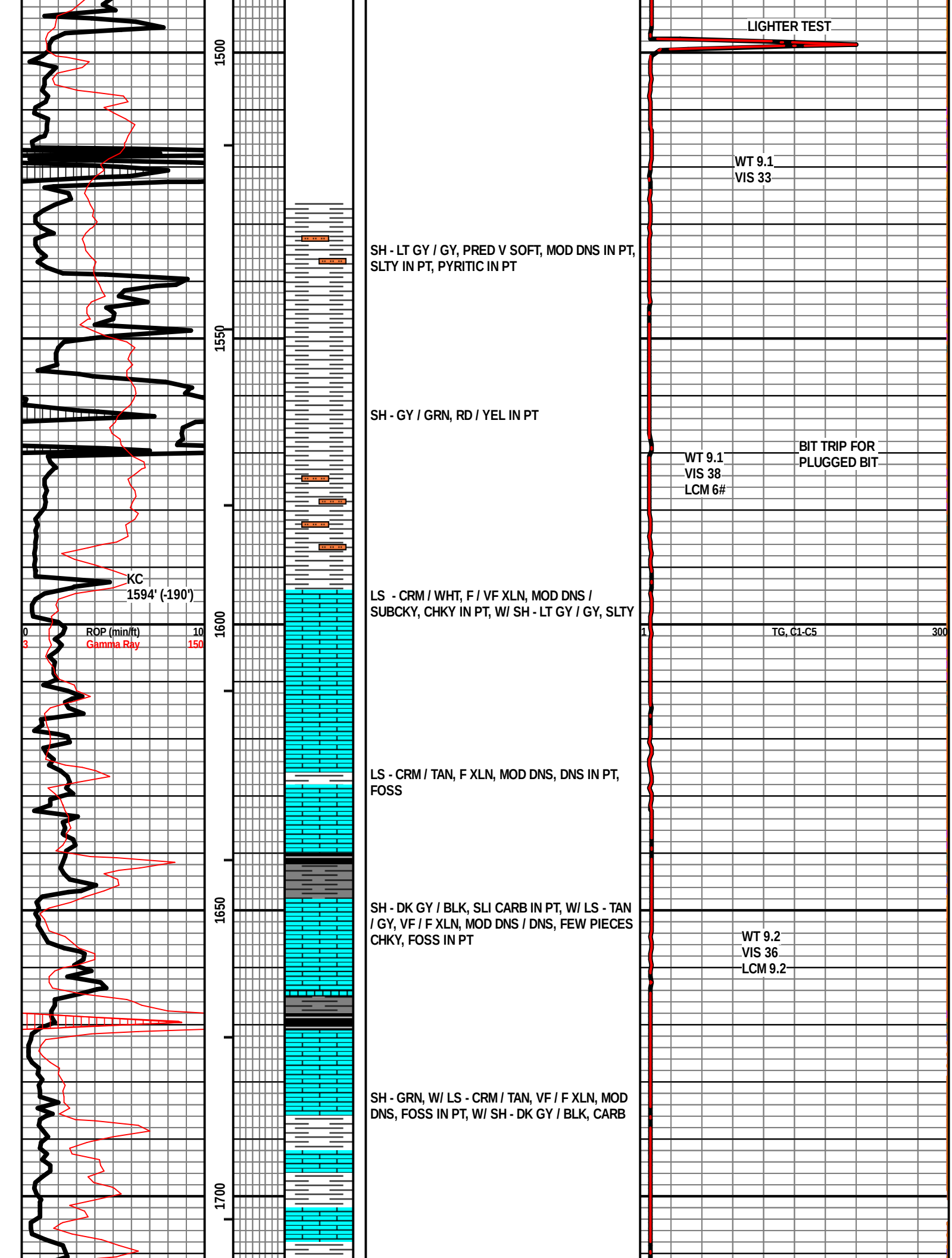
- Dst

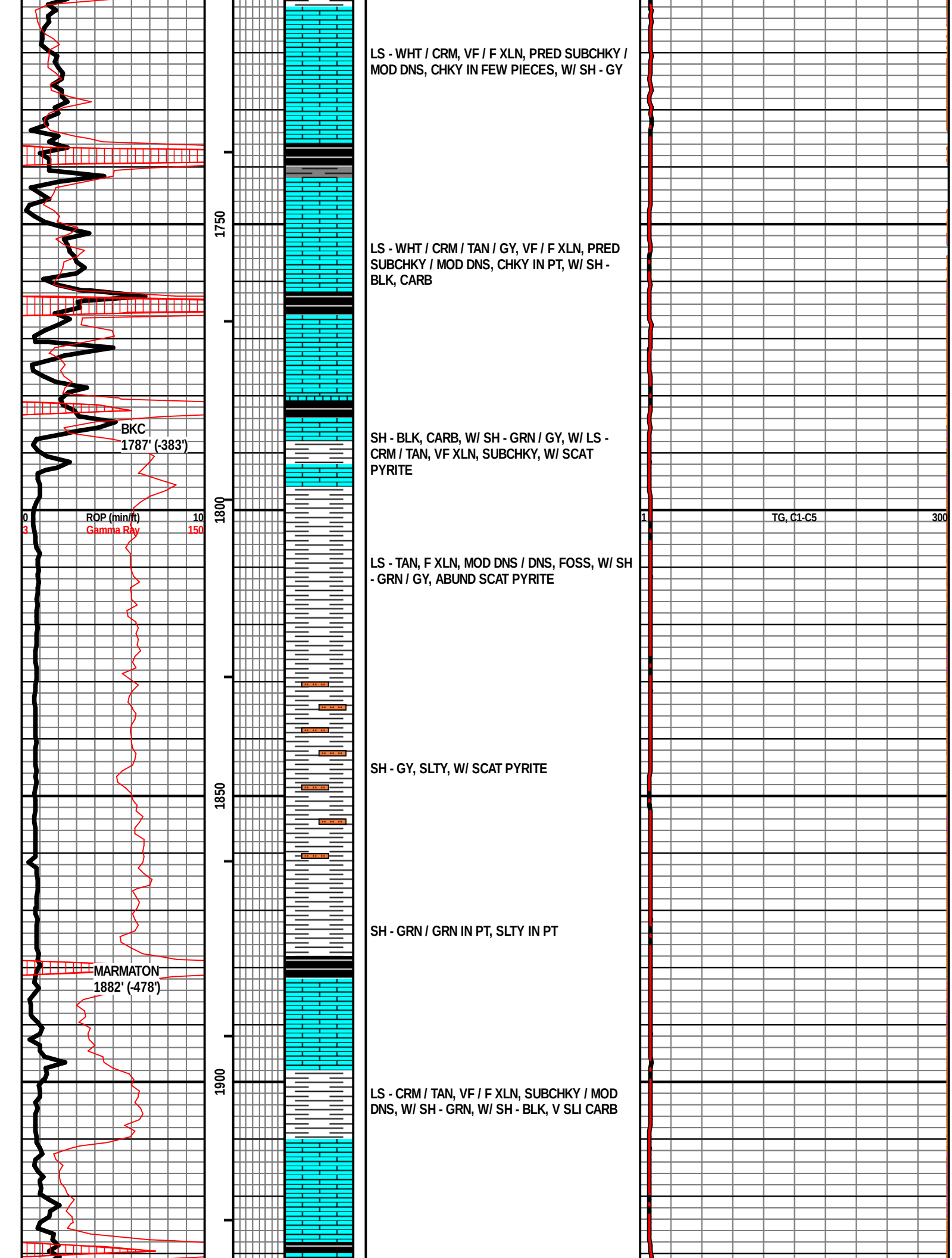
EVENTS
- Rft
- Sidewall
- Conn

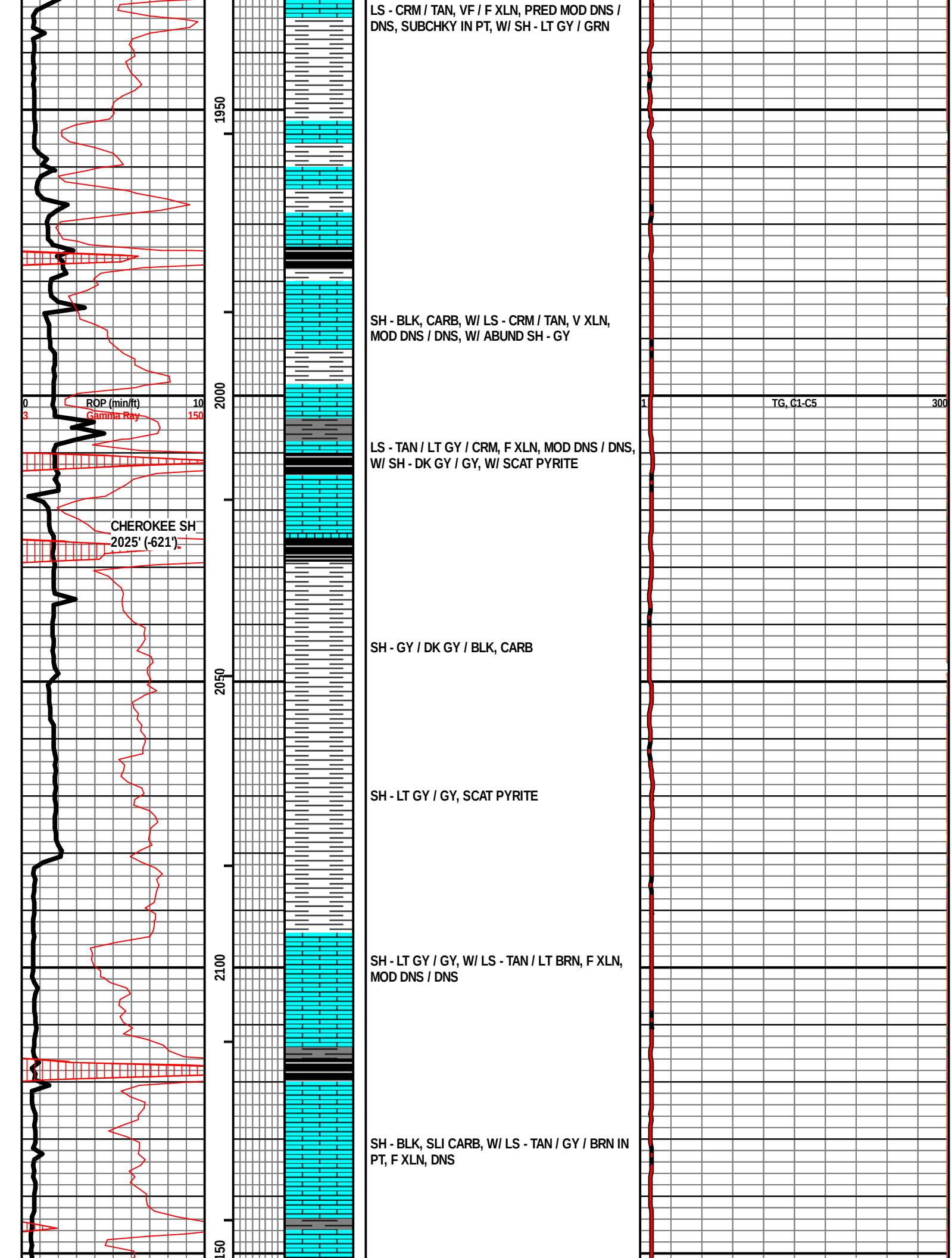


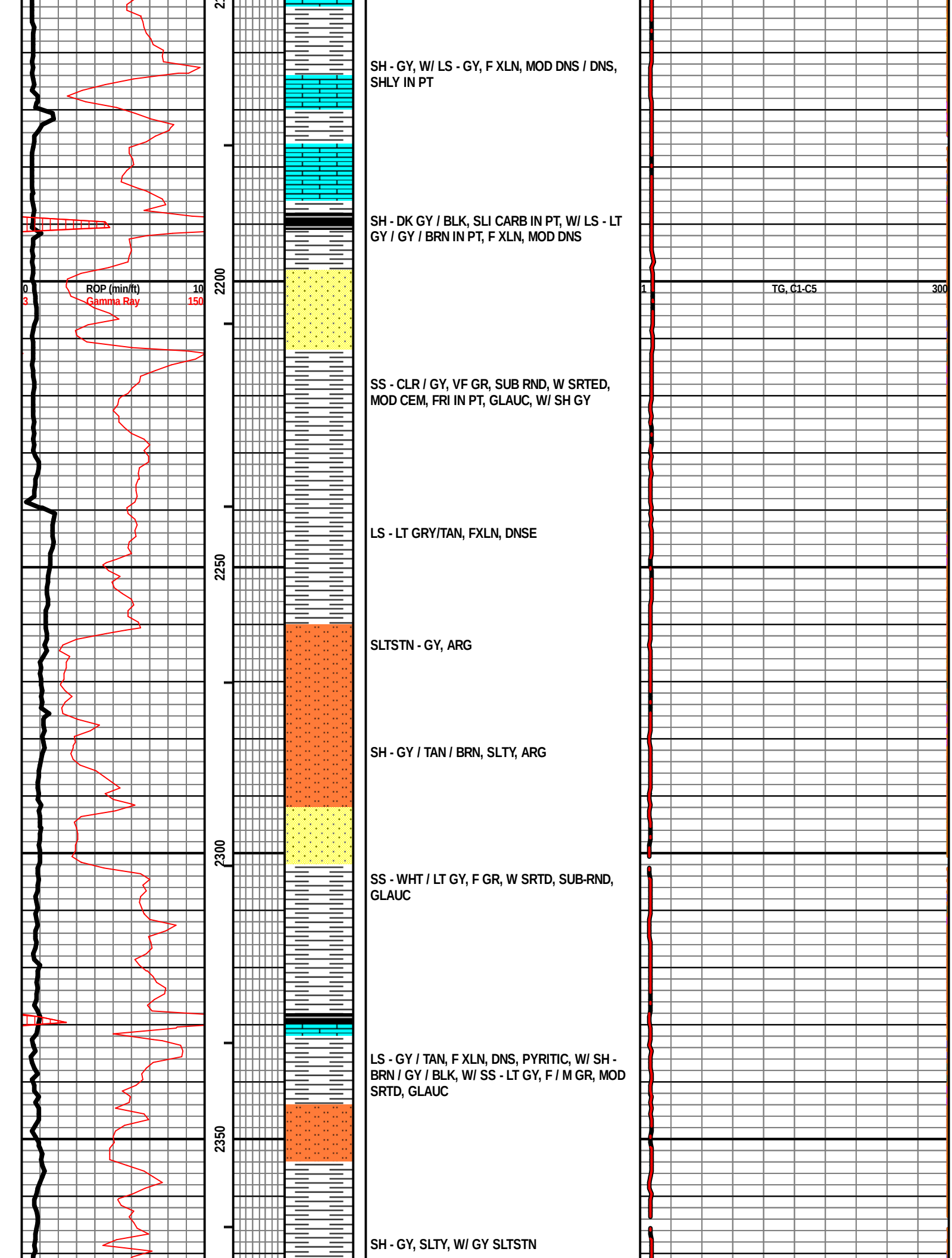

1100
1150
1200
1250
0
ROP (min/ft)
10
3
Gamma Ray
150
1
TG, C1-C5
300
LIGHTER TEST

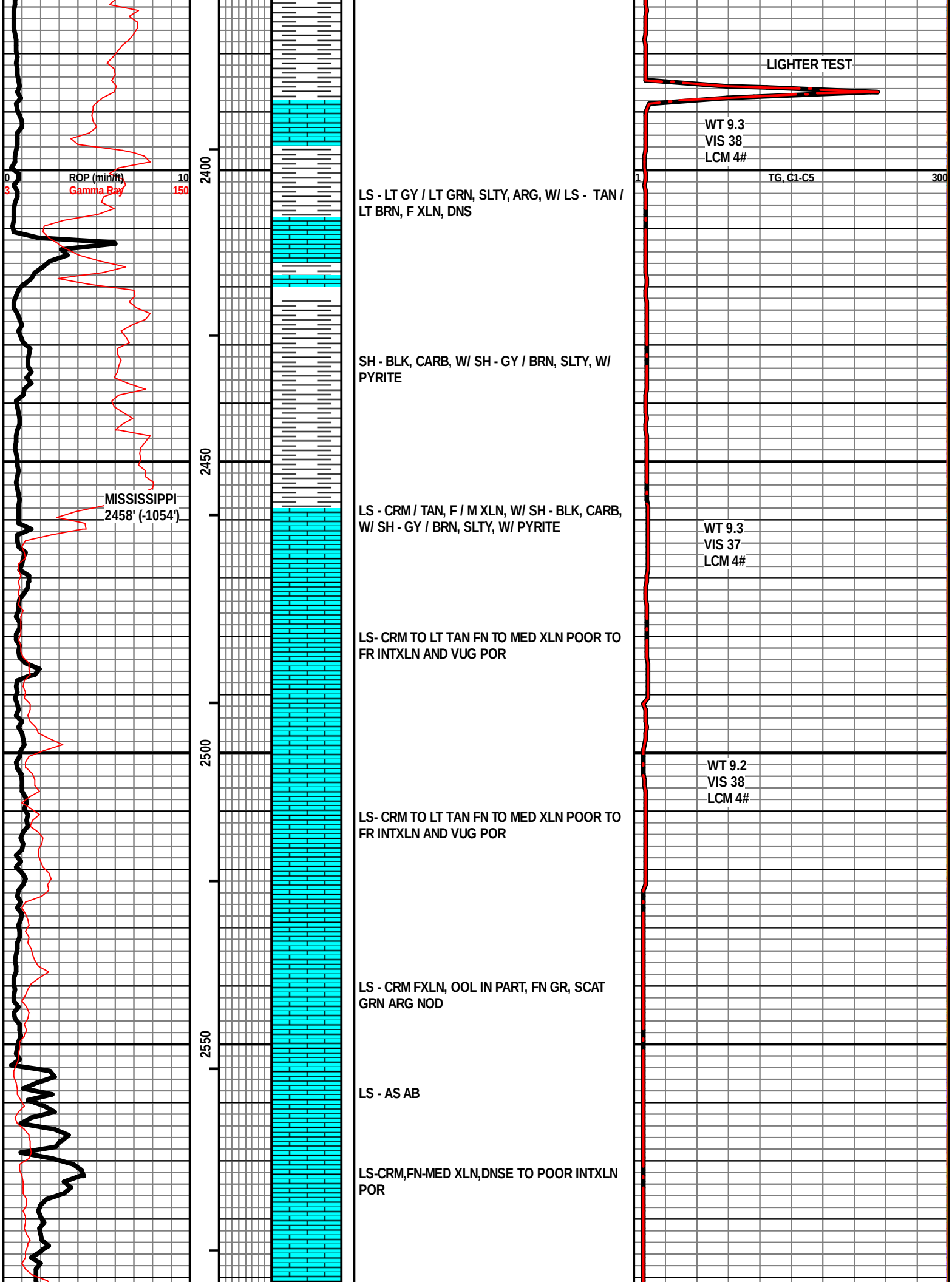

1300
1350
1400
1450
0
ROP (min/ft)
10
3
Gamma Ray
150
LANSING
1424' (-20')
LOST
CIRCULATION
GOT IT BACK
WITH MIXING 2
TANKS
BIT TRIP FOR
PLUGGED BIT
1
TG, C1-C5
300

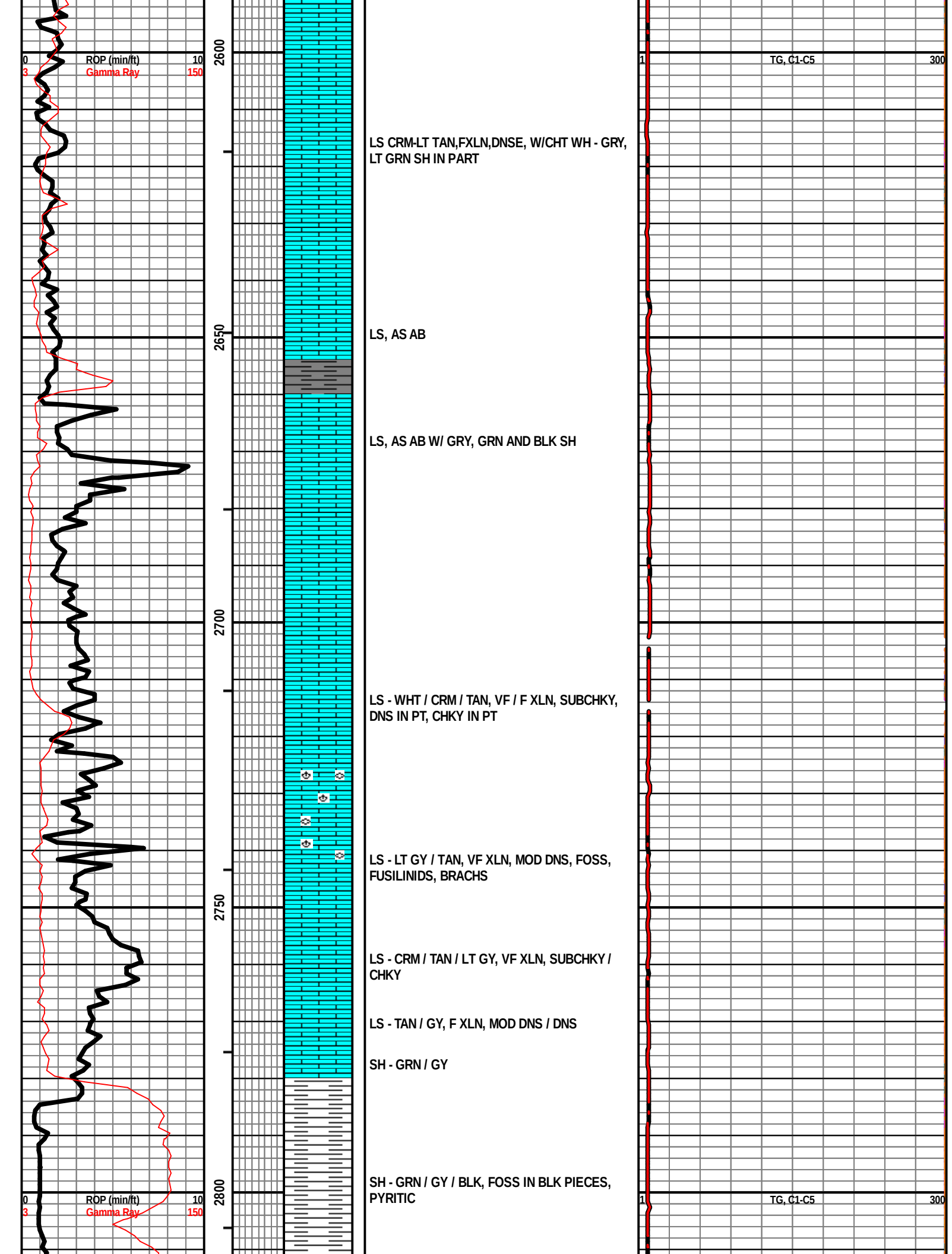

LIGHTER TEST
WT 9.1
VIS 33
SH - LT GY / GY, PRED V SOFT, MOD DNS IN PT, SLTY IN PT, PYRITIC IN PT
SH - GY / GRN, RD / YEL IN PT
WT 9.1
VIS 38
LCM 6#
BIT TRIP FOR PLUGGED BIT
KC
1594' (-190')
LS - CRM / WHT, F / VF XLN, MOD DNS / SUBCKY, CHKY IN PT, W/ SH - LT GY / GY, SLTY
0
ROP (min/ft)
10
3
Gamma Ray
150
1
TG, C1-C5
300
LS - CRM / TAN, F XLN, MOD DNS, DNS IN PT, FOSS
SH - DK GY / BLK, SLI CARB IN PT, W/ LS - TAN / GY, VF / F XLN, MOD DNS / DNS, FEW PIECES CHKY, FOSS IN PT
WT 9.2
VIS 36
LCM 9.2
SH - GRN, W/ LS - CRM / TAN, VF / F XLN, MOD DNS, FOSS IN PT, W/ SH - DK GY / BLK, CARB
1500
1550
1600
1650
1700

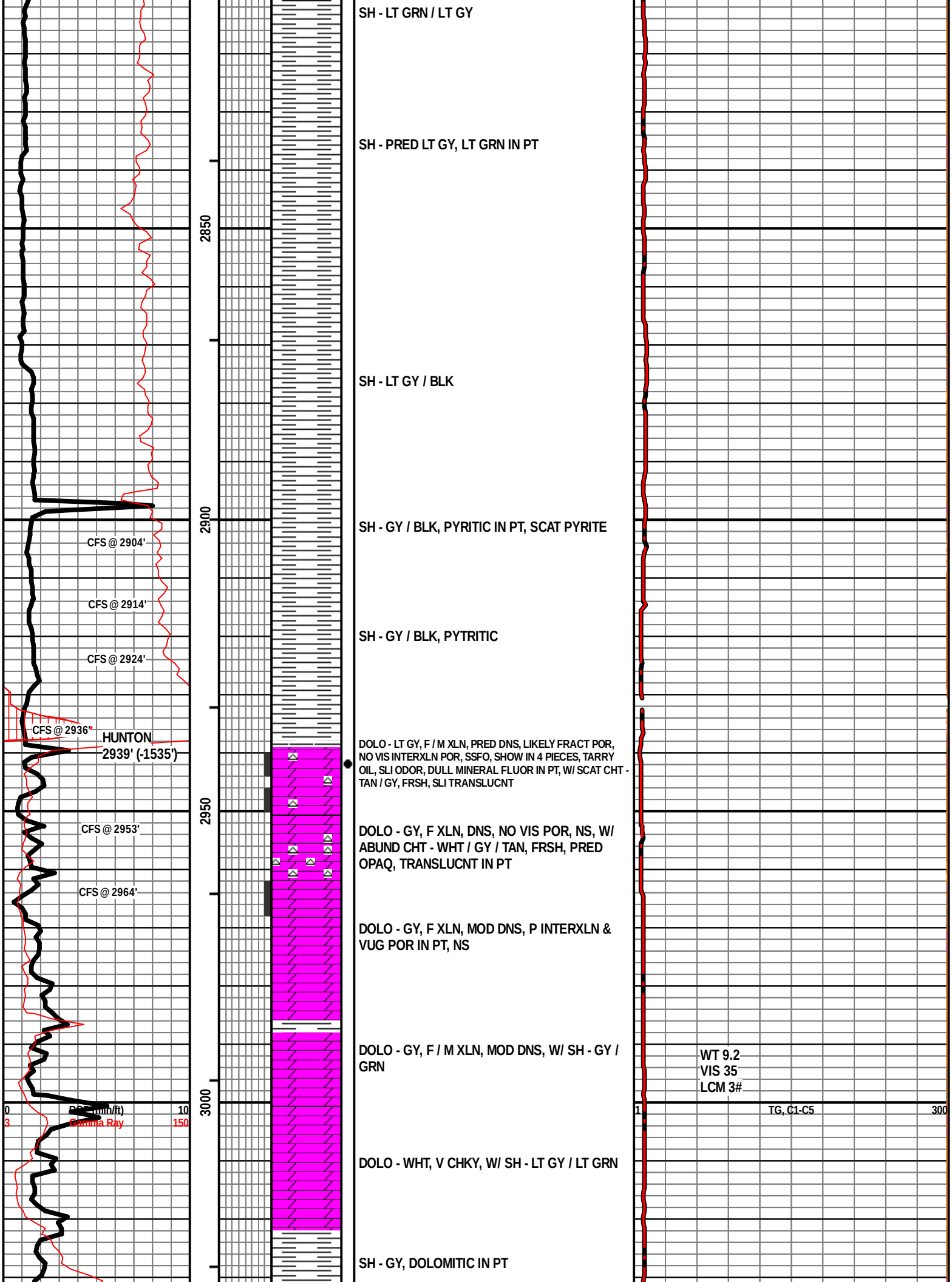

LS - WHT / CRM, VF / F XLN, PRED SUBCHKY / MOD DNS, CHKY IN FEW PIECES, W/ SH - GY
LS - WHT / CRM / TAN / GY, VF / F XLN, PRED SUBCHKY / MOD DNS, CHKY IN PT, W/ SH - BLK, CARB
SH - BLK, CARB, W/ SH - GRN / GY, W/ LS - CRM / TAN, VF XLN, SUBCHKY, W/ SCAT PYRITE
LS - TAN, F XLN, MOD DNS / DNS, FOSS, W/ SH - GRN / GY, ABUND SCAT PYRITE
SH - GY, SLTY, W/ SCAT PYRITE
SH - GRN / GRN IN PT, SLTY IN PT
LS - CRM / TAN, VF / F XLN, SUBCHKY / MOD DNS, W/ SH - GRN, W/ SH - BLK, V SLI CARB
BKC
1787' (-383')
MARMATON
1882' (-478')
1750
1800
1850
1900
0
3
ROP (min/ft)
Gamma Ray
10
150
1
TG, C1-C5
300

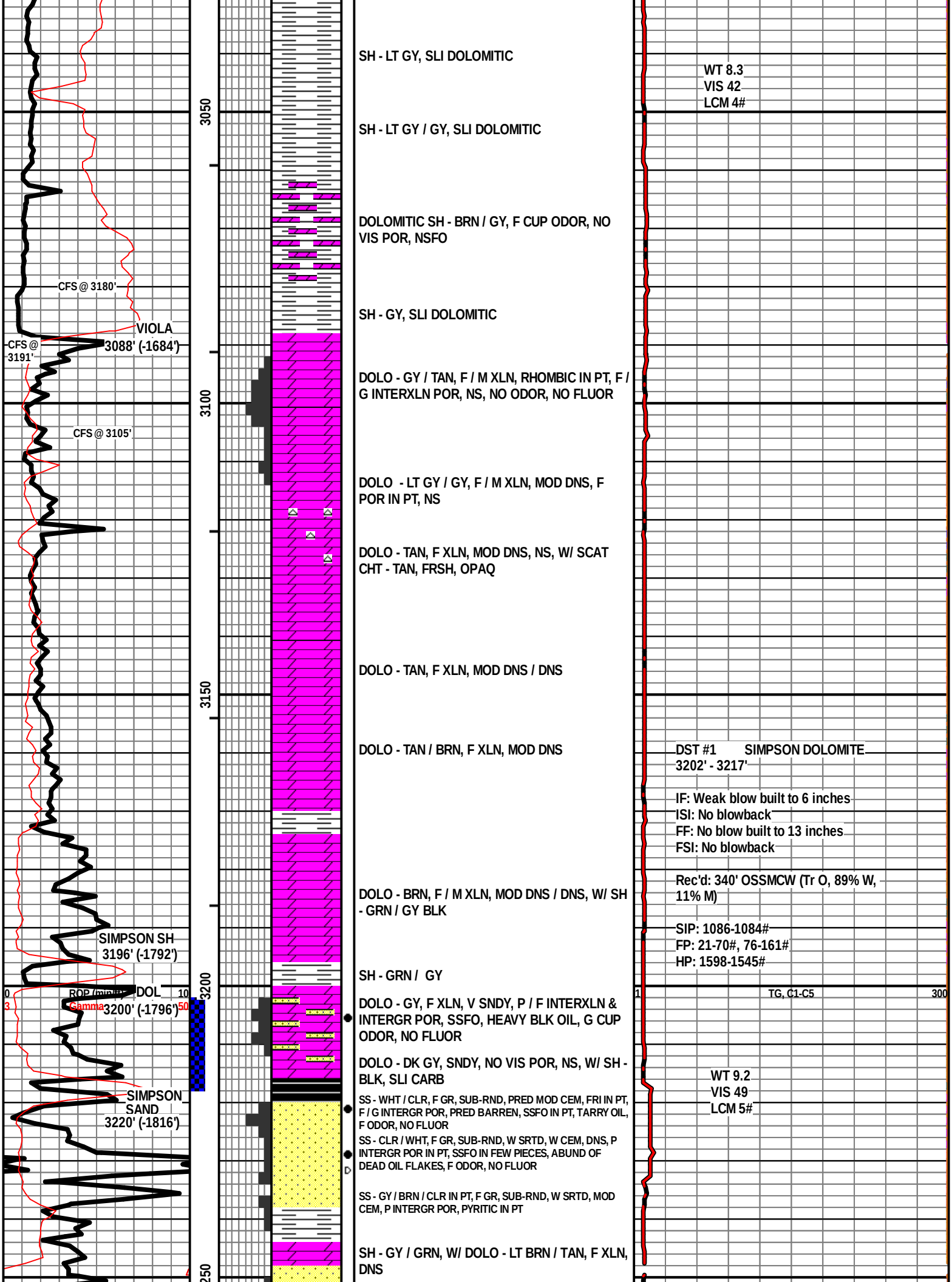

LS - CRM / TAN, VF / F XLN, PRED MOD DNS / DNS, SUBCHKY IN PT, W/ SH - LT GY / GRN
SH - BLK, CARB, W/ LS - CRM / TAN, V XLN, MOD DNS / DNS, W/ ABUND SH - GY
0
ROP (min/ft)
10
3
Gamma Ray
150
1
TG, C1-C5
300
LS - TAN / LT GY / CRM, F XLN, MOD DNS / DNS, W/ SH - DK GY / GY, W/ SCAT PYRITE
CHEROKEE SH
2025' (-621')
SH - GY / DK GY / BLK, CARB
SH - LT GY / GY, SCAT PYRITE
SH - LT GY / GY, W/ LS - TAN / LT BRN, F XLN, MOD DNS / DNS
SH - BLK, SLI CARB, W/ LS - TAN / GY / BRN IN PT, F XLN, DNS
1950
2000
2050
2100
2150

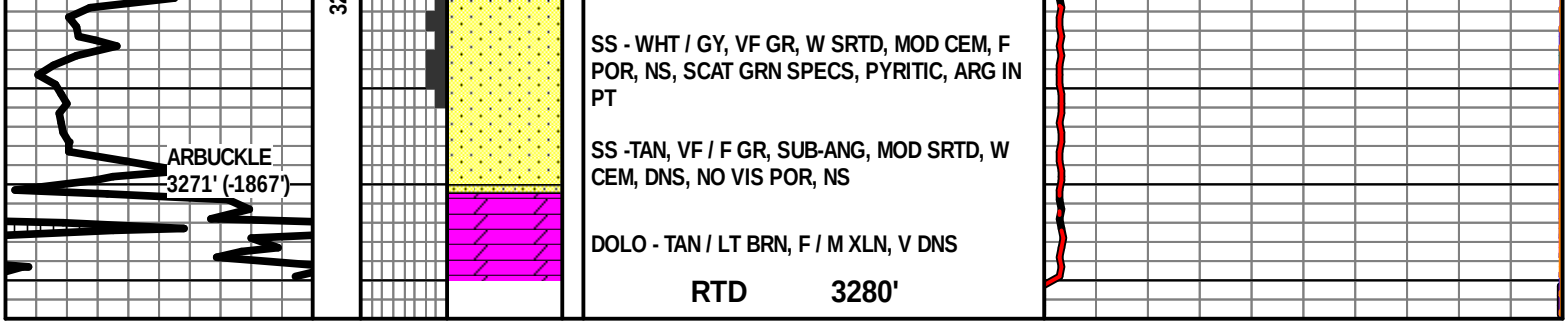

0
ROP (min/ft)
10
3
Gamma Ray
150
2200
2250
2300
2350
1
TG, C1-C5
300
SH - GY, W/ LS - GY, F XLN, MOD DNS / DNS, SHLY IN PT
SH - DK GY / BLK, SLI CARB IN PT, W/ LS - LT GY / GY / BRN IN PT, F XLN, MOD DNS
SS - CLR / GY, VF GR, SUB RND, W SRTED, MOD CEM, FRI IN PT, GLAUC, W/ SH GY
LS - LT GRY/TAN, FXLN, DNSE
SLTSTN - GY, ARG
SH - GY / TAN / BRN, SLTY, ARG
SS - WHT / LT GY, F GR, W SRTD, SUB-RND, GLAUC
LS - GY / TAN, F XLN, DNS, PYRITIC, W/ SH - BRN / GY / BLK, W/ SS - LT GY, F / M GR, MOD SRTD, GLAUC
SH - GY, SLTY, W/ GY SLTSTN


0
3
ROP (min/ft)
Gamma Ray
10
150
2400
2450
2500
2550
MISSISSIPPI
2458' (-1054')
LS - LT GY / LT GRN, SLTY, ARG, W/ LS - TAN / LT BRN, F XLN, DNS
SH - BLK, CARB, W/ SH - GY / BRN, SLTY, W/ PYRITE
LS - CRM / TAN, F / M XLN, W/ SH - BLK, CARB, W/ SH - GY / BRN, SLTY, W/ PYRITE
LS- CRM TO LT TAN FN TO MED XLN POOR TO FR INTXLN AND VUG POR
LS- CRM TO LT TAN FN TO MED XLN POOR TO FR INTXLN AND VUG POR
LS - CRM FXLN, OOL IN PART, FN GR, SCAT GRN ARG NOD
LS - AS AB
LS-CRM,FN-MED XLN,DNSE TO POOR INTXLN POR
LIGHTER TEST
WT 9.3
VIS 38
LCM 4#
1
TG, C1-C5
300
WT 9.3
VIS 37
LCM 4#
WT 9.2
VIS 38
LCM 4#


0
3
ROP (min/ft)
Gamma Ray
10
150
2600
2650
2700
2750
2800
LS CRM-LT TAN,FXLN,DNSE, W/CHT WH - GRY, LT GRN SH IN PART
LS, AS AB
LS, AS AB W/ GRY, GRN AND BLK SH
LS - WHT / CRM / TAN, VF / F XLN, SUBCHKY, DNS IN PT, CHKY IN PT
LS - LT GY / TAN, VF XLN, MOD DNS, FOSS, FUSILINIDS, BRACHS
LS - CRM / TAN / LT GY, VF XLN, SUBCHKY / CHKY
LS - TAN / GY, F XLN, MOD DNS / DNS
SH - GRN / GY
SH - GRN / GY / BLK, FOSS IN BLK PIECES, PYRITIC
1
TG, C1-C5
300


SH - LT GRN / LT GY
SH - PRED LT GY, LT GRN IN PT
SH - LT GY / BLK
SH - GY / BLK, PYRITIC IN PT, SCAT PYRITE
SH - GY / BLK, PYTRITIC
DOLO - LT GY, F / M XLN, PRED DNS, LIKELY FRACT POR, NO VIS INTERXLN POR, SSFO, SHOW IN 4 PIECES, TARRY OIL, SLI ODOR, DULL MINERAL FLUOR IN PT, W/ SCAT CHT - TAN / GY, FRSH, SLI TRANSLUCNT
DOLO - GY, F XLN, DNS, NO VIS POR, NS, W/ ABUND CHT - WHT / GY / TAN, FRSH, PRED OPAQ, TRANSLUCNT IN PT
DOLO - GY, F XLN, MOD DNS, P INTERXLN & VUG POR IN PT, NS
DOLO - GY, F / M XLN, MOD DNS, W/ SH - GY / GRN
DOLO - WHT, V CHKY, W/ SH - LT GY / LT GRN
SH - GY, DOLOMITIC IN PT
2850
2900
2950
3000
CFS @ 2904'
CFS @ 2914'
CFS @ 2924'
CFS @ 2936'
HUNTON
2939' (-1535')
CFS @ 2953'
CFS @ 2964'
WT 9.2
VIS 35
LCM 3#
0
3
ROP (min/ft)
Gamma Ray
10
150
1
TG, C1-C5
300


3050
3100
3150
3200
3250
CFS @ 3180'
VIOLA
3088' (-1684')
CFS @ 3191'
CFS @ 3105'
SIMPSON SH
3196' (-1792')
ROP (min/ft)
DOL
0
10
3
Gamma
50
3200' (-1796')
SIMPSON SAND
3220' (-1816')
SH - LT GY, SLI DOLOMITIC
SH - LT GY / GY, SLI DOLOMITIC
DOLOMITIC SH - BRN / GY, F CUP ODOR, NO VIS POR, NSFO
SH - GY, SLI DOLOMITIC
DOLO - GY / TAN, F / M XLN, RHOMBIC IN PT, F / G INTERXLN POR, NS, NO ODOR, NO FLUOR
DOLO - LT GY / GY, F / M XLN, MOD DNS, F POR IN PT, NS
DOLO - TAN, F XLN, MOD DNS, NS, W/ SCAT CHT - TAN, FRSH, OPAQ
DOLO - TAN, F XLN, MOD DNS / DNS
DOLO - TAN / BRN, F XLN, MOD DNS
DOLO - BRN, F / M XLN, MOD DNS / DNS, W/ SH - GRN / GY BLK
SH - GRN / GY
DOLO - GY, F XLN, V SNDY, P / F INTERXLN & INTERGR POR, SSFO, HEAVY BLK OIL, G CUP ODOR, NO FLUOR
DOLO - DK GY, SNDY, NO VIS POR, NS, W/ SH - BLK, SLI CARB
SS - WHT / CLR, F GR, SUB-RND, PRED MOD CEM, FRI IN PT, F / G INTERGR POR, PRED BARREN, SSFO IN PT, TARRY OIL, F ODOR, NO FLUOR
SS - CLR / WHT, F GR, SUB-RND, W SRTD, W CEM, DNS, P INTERGR POR IN PT, SSFO IN FEW PIECES, ABUND OF DEAD OIL FLAKES, F ODOR, NO FLUOR
SS - GY / BRN / CLR IN PT, F GR, SUB-RND, W SRTD, MOD CEM, P INTERGR POR, PYRITIC IN PT
SH - GY / GRN, W/ DOLO - LT BRN / TAN, F XLN, DNS
WT 8.3
VIS 42
LCM 4#
DST #1 SIMPSON DOLOMITE
3202' - 3217'
IF: Weak blow built to 6 inches
ISI: No blowback
FF: No blow built to 13 inches
FSI: No blowback
Rec'd: 340' OSSMCW (Tr O, 89% W, 11% M)
SIP: 1086-1084#
FP: 21-70#, 76-161#
HP: 1598-1545#
1
TG, C1-C5
300
WT 9.2
VIS 49
LCM 5#


ARBUCKLE
3271' (-1867')
SS - WHT / GY, VF GR, W SRTD, MOD CEM, F POR, NS, SCAT GRN SPECS, PYRITIC, ARG IN PT
SS -TAN, VF / F GR, SUB-ANG, MOD SRTD, W CEM, DNS, NO VIS POR, NS
DOLO - TAN / LT BRN, F / M XLN, V DNS
RTD 3280'

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. 4473
Foreman Kevin McCoy
Camp

API # 15-197-20309-00-00

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
5-8-19	1264	J.R. Ranch #1	24	14S	11E	Wabaunsee	KS

Customer: Stewart Producers, Inc.
Mailing Address: P.O. Box 546
City: Mt. Vernon | State: IL | Zip Code: 62864-0546

Safety Meeting: KM AM SM

Unit #	Driver	Unit #	Driver
104	Alan M.		
112	Steve M.		

Job Type: Surface
Casing Depth: 313.41' K.B.
Casing Size & Wt.: 8 5/8" 23#
Displacement: 18.7 Bbl
Hole Depth: 315' K.B.
Hole Size: 12 1/4
Cement Left in Casing: 20'
Displacement PSI:
Slurry Vol.: 43 Bbl
Slurry Wt.: 15.0#
Water Gal/SK: 6.5
Bump Plug to:
Tubing:
Drill Pipe:
Other:
BPM:

Remarks: Safety Meeting: Rig up to 8 5/8 Casing. Break Circulation w/ 10 Bbl fresh water. Mixed 180 sks Class "A" Cement w/ 3% CaCl2, 2% Gel @ 15#/gal, yield 1.35 = 43 Bbl Slurry. Displace w/ 18.7 Bbl fresh water. Shut Casing in. Good Cement Returns to Surface = 12 Bbl Slurry to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	890.00	890.00
C 107	75	Mileage	4.20	315.00
C 200	180 sks	Class "A" Cement	15.75	2835.00
C 205	500#	CaCl2 3%	.63#	315.00
C 206	340#	Gel 2%	.21#	71.40
C 108 B	8.46 Tons	Ton Mileage 75 miles	1.40	888.30
			Sub Total	5314.70
		THANK You	Less 5%	278.62
		NA 8%	Sales Tax	257.71
			Total	5293.79

Authorization: witnessed By Judd Gulick Title: C&G Drlg Toolpusher

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. 4475
Foreman Kevin McCoy
Camp Eureka

API # 15-197-20309-00-00

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
5-15-19	1264	J. R. Ranch #1	24	14S	11E	Wabaunsee	Ks

Customer: Stewart Producers, Inc.
Mailing Address: P.O. Box 546
City: Mt. Vernon | State: IL | Zip Code: 62864-0546
Safety Meeting: KM AM CG

Unit #	Driver	Unit #	Driver
104	Alan M.		
115	Caleb G.		

Job Type: P.T.A. New Well | Hole Depth: 3280' K.B. | Slurry Vol. | Tubing
Casing Depth | Hole Size: 7 7/8" | Slurry Wt. | Drill Pipe: 4 1/2
Casing Size & Wt. | Cement Left in Casing | Water Gal/SK | Other
Displacement | Displacement PSI | Bump Plug to | BPM

Remarks: Safety Meeting: Rig up to 4 1/2 Drill Pipe. Plug well as following.

15 sks @ 3130' Simpson
15 sks @ 3020' Viola
15 sks @ 2890' Hunton
15 sks @ 2440 Miss
25 sks @ 1535 KC
35 sks @ 350'
25 sks @ 60'
30 sks R. H.
20 sk M. H.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 103	1	Pump Charge	1100.00	1100.00
C 107	75	Mileage	4.20	315.00
C 203	195 sks	60/40 Pozmix Cement	13.40	2613.00
C 206	670#	Gel 4%	.21#	140.70
C 108 B	8.39 Tons	Ton Mileage	1.40	880.95
			Sub Total	5049.65
		THANK You	Less 5%	263.50
		8.0%	Sales Tax	220.30
			Total	5006.45

Authorization: witnessed By Judd Gulick Title: C&C Toolpusher

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Stewart Producers, Inc.

301 North 27th Street
P.O. Box 546
Mount Vernon, Il 62864-0546
ATTN: Mark Thompson/Aaron

24/14S/11E Wabaunsee, KS

JR Ranch #1

Job Ticket: 63945 **DST#: 1**

Test Start: 2019.05.13 @ 03:39:00

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:46:20
Time Test Ended: 11:59:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 3202.00 ft (KB) To 3217.00 ft (KB) (TVD)
Total Depth: 3217.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

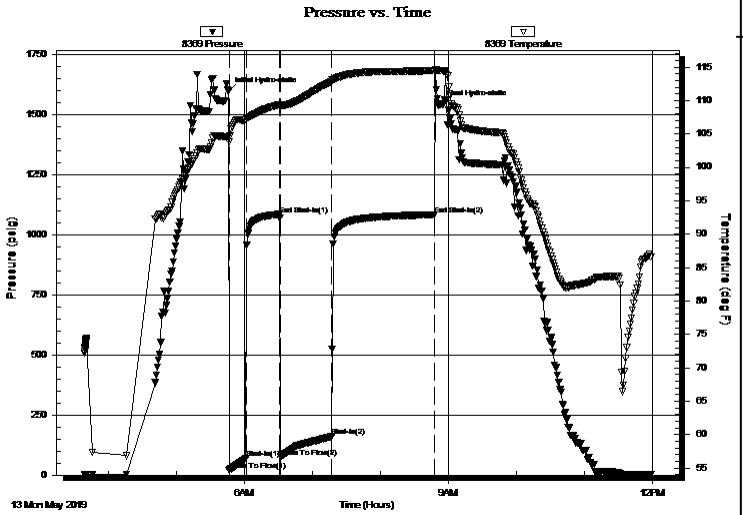
Reference Elevations: 1404.00 ft (KB)
1395.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 161.11 psig @ 3203.00 ft (KB)
Start Date: 2019.05.13 End Date: 2019.05.13
Start Time: 03:39:01 End Time: 11:59:00

Capacity: 8000.00 psig
Last Calib.: 2019.05.13
Time On Btm: 2019.05.13 @ 05:45:50
Time Off Btm: 2019.05.13 @ 08:52:00

TEST COMMENT: IF - Weak blow building to 6 inches during initial flow period.
FF - No blow building to 13 inches during final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.98	104.54	Initial Hydro-static
1	21.20	103.80	Open To Flow (1)
16	70.29	107.11	Shut-In(1)
46	1085.71	109.37	End Shut-In(1)
46	76.10	109.07	Open To Flow (2)
92	161.11	112.82	Shut-In(2)
182	1084.45	114.48	End Shut-In(2)
187	1544.77	114.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	OSSMCW TR O 89% W 11% M	2.54

Gas Rates

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

DRILL STEM TEST REPORT

Stewart Producers, Inc.

301 North 27th Street
P.O. Box 546
Mount Vernon, Il 62864-0546
ATTN: Mark Thompson/Aaron

24/14S/11E Wabaunsee, KS

JR Ranch #1

Job Ticket: 63945 **DST#: 1**

Test Start: 2019.05.13 @ 03:39:00

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:46:20
Time Test Ended: 11:59:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

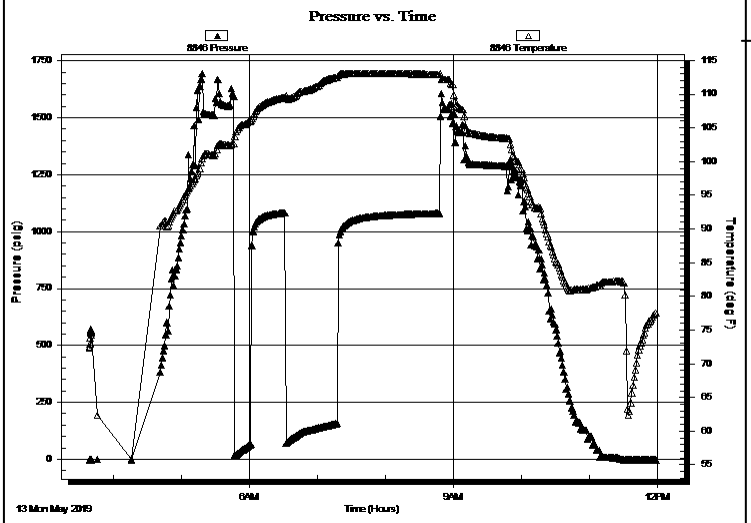
Interval: 3202.00 ft (KB) To 3217.00 ft (KB) (TVD)
Total Depth: 3217.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1404.00 ft (KB)
1395.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8846 **Inside**
Press@RunDepth: psig @ 3203.00 ft (KB)
Start Date: 2019.05.13 End Date: 2019.05.13
Start Time: 03:39:01 End Time: 11:59:00

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 6 inches during initial flow period.
FF - No blow building to 13 inches during final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
340.00	OSSMCW TR O 89% W 11% M	2.54

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Stew art Producers, Inc.

301 North 27th Street
P.O. Box 546
Mount Vernon, Il 62864-0546
ATTN: Mark Thompson/Aaron

24/14S/11E Wabaunsee, KS

JR Ranch #1

Job Ticket: 63945 **DST#: 1**

Test Start: 2019.05.13 @ 03:39:00

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:	8000 ppm
Viscosity:	35.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

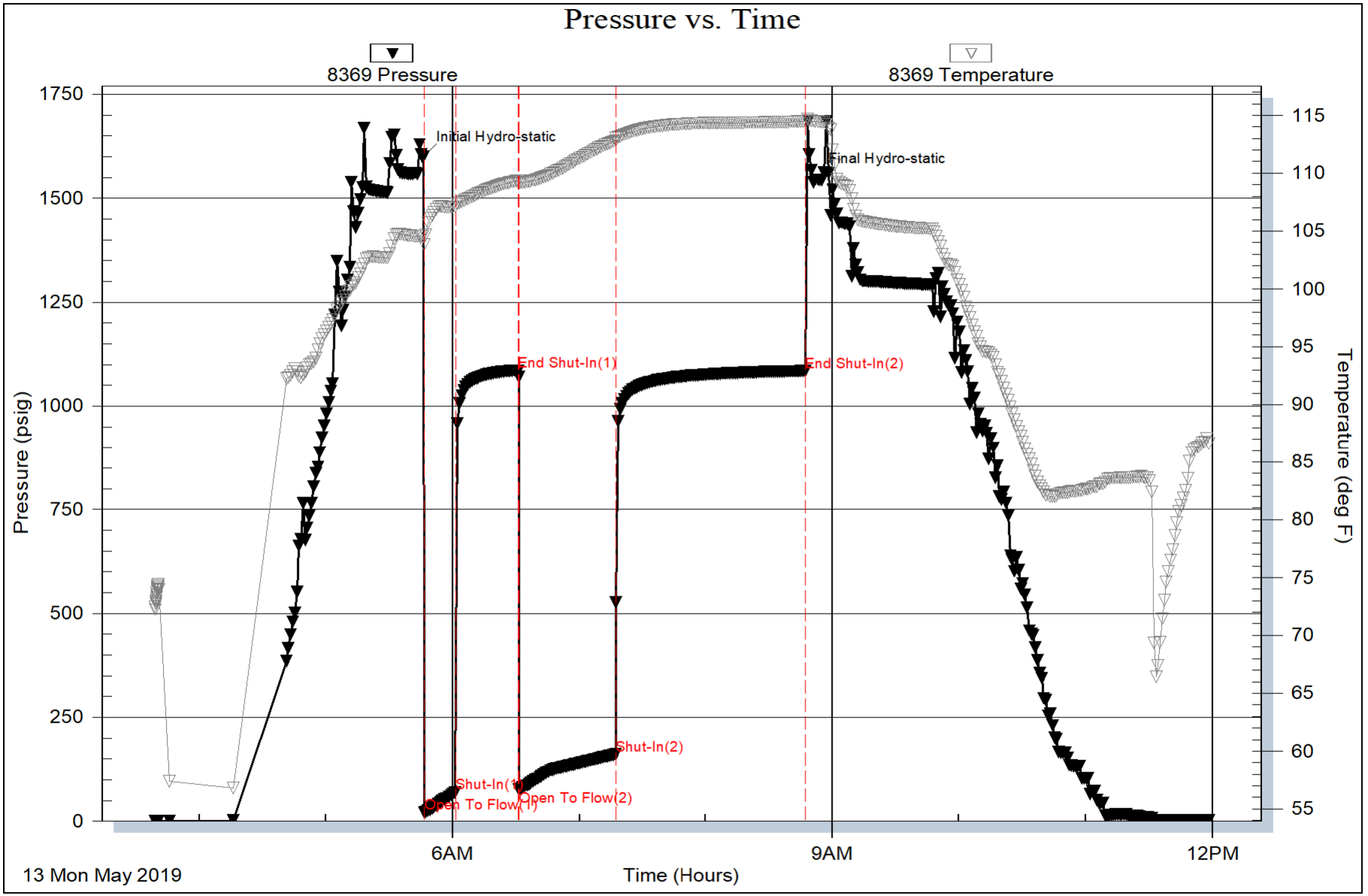
Recovery Table

Length ft	Description	Volume bbl
340.00	OSSMCW TR O 89% W 11% M	2.537

Total Length: 340.00 ft Total Volume: 2.537 bbl

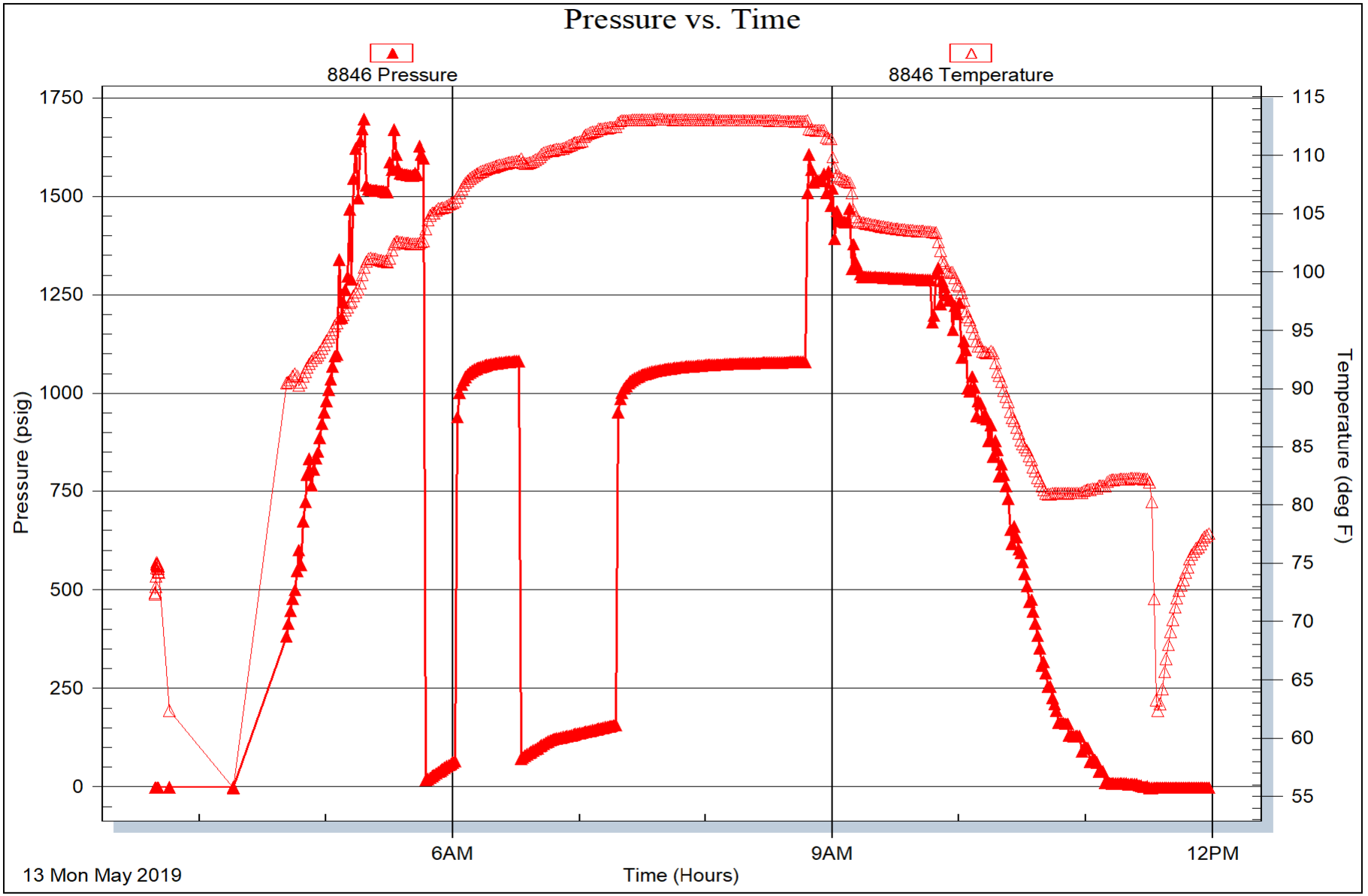
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Stew art Producers, Inc. JR Ranch #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63945 Printed: 2019.05.13 @ 13:36:30

Serial #: 8846 **Inside** Stew art Producers, Inc. JR Ranch #1 DST Test Number: 1



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