



Scale: 5" / 100'
Measured Depth Log

Well Name Goodman Point #27 (Vertical) (M-13)

Location SWSE 18 36N 17W N PM

State CO

County Montezuma

Country US

Rig Number M13

API Number 05-083-06717

Field McElmo Dome

Region Goodman Point

Drilling Completed 8/28/2014

Spud Date 7/20/2014

Ground Elevation 7080'

K.B. Elevation 7105'

Logged Interval 102'

Total Depth 8125'

Formation LEADVILLE

Type of Drilling Fluid Brine

Other Symbols

Oil Show

- DEAD
- EVEN
- QUESTIONABLE
- SPOTTED STAINING

Porosity

- E EARTHY
- F FENESTRAL
- F FRACTURE
- X INTERCRYSTALLINE
- Q INTEROOLITIC

MOLDIC

ORGANIC

PINPOINT

VUGGY

Engineering

BIT

CONNECTION (LEFT)

CONNECTION (RIGHT)

CONNECTION GAS

CORE - LOST

CORE - RECOVERED

DST INTERVAL

FAULT

FORMATION TOP

GAS SHOW

MN DEPTH MN DEPTH

NORMAL FAULT

OIL SHOW

OVERTURNED STRATA

REVERSE FAULT

SIDEWALL CORE (LEFT)

SIDEWALL CORE (RIGHT)

SLIDE

SURVEY

TRIP GAS

WIRELINE TESTED - LEFT

WIRELINE TESTED - RT

Rounding

ANGULAR

ROUNDED

SUBANG

SUBRND

Textures

BOUNDSTONE

CHALKY

CRYPTOXLN

E EARTHY

FINELYXLN

GRAINSTONE

L LITHOGRAPHIC

MICROXLN

MUDSTONE

PACKSTONE

WACKESTONE

Sorting

MODERATE

POOR

W WELL

Zone Color Coding

- Oil
- Condensate
- Gas
- Note
- Core
- Pressure
- Error
- Water
- Seal

Geologist

Company Jove Enterprise

Accessories

Fossils

- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHIOPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID

F FOSSIL

GASTROPOD

OOLITE

OSTRACOD

PELECYPOD

PELLET

PISOLITE

PLANT REMAINS

PLANT SPORES

SCAPHOPOD

STROMATOPOROID

ARGILLACEOUS

ARGILLITE GRAIN

BENTONITE

BITUMENOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

GLAUCONITE

GYPSIFEROUS

HEAVY MINERAL

KAOLIN

MARLSTONE

MINERAL CRYSTALS

NODULES

PHOSPHATE PELLETS

PYRITE

SALT CAST

SANDY

Stringer

- ANHYDRITE STRINGER
- BENTONITE STRINGER
- COAL STRINGER
- DOLOMITE STRINGER
- GYPSUM STRINGER
- LIMESTONE STRINGER
- MARLSTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- SANDSTONE STRINGER

 ECHINOID

 FISH

 FORAMINIFERA

Minerals

 ANHYDRITIC

 FELDSPAR

 FERRUGINOUS PELLET

 FERRUGINOUS

 SILICEOUS

 SILTY

 TUFFACEOUS

 SHALE STRINGER

 SILTSTONE STRINGER


Rock Types

 UNKNOWN

 ANHYDRITE


 GYPSUM

 SALT

 SIDERITE or LIMONITE

 LIMESTONE


 DOLOMITE

 CHERT

 COAL

 MARLSTONE

 CLAYSTONE


 SHALE

 SHALE GRAY

 SHALE COLORED


 SILTSTONE

 SANDSTONE

 CONGLOMERATE

 BRECCIA

 TILL

 BENTONITE

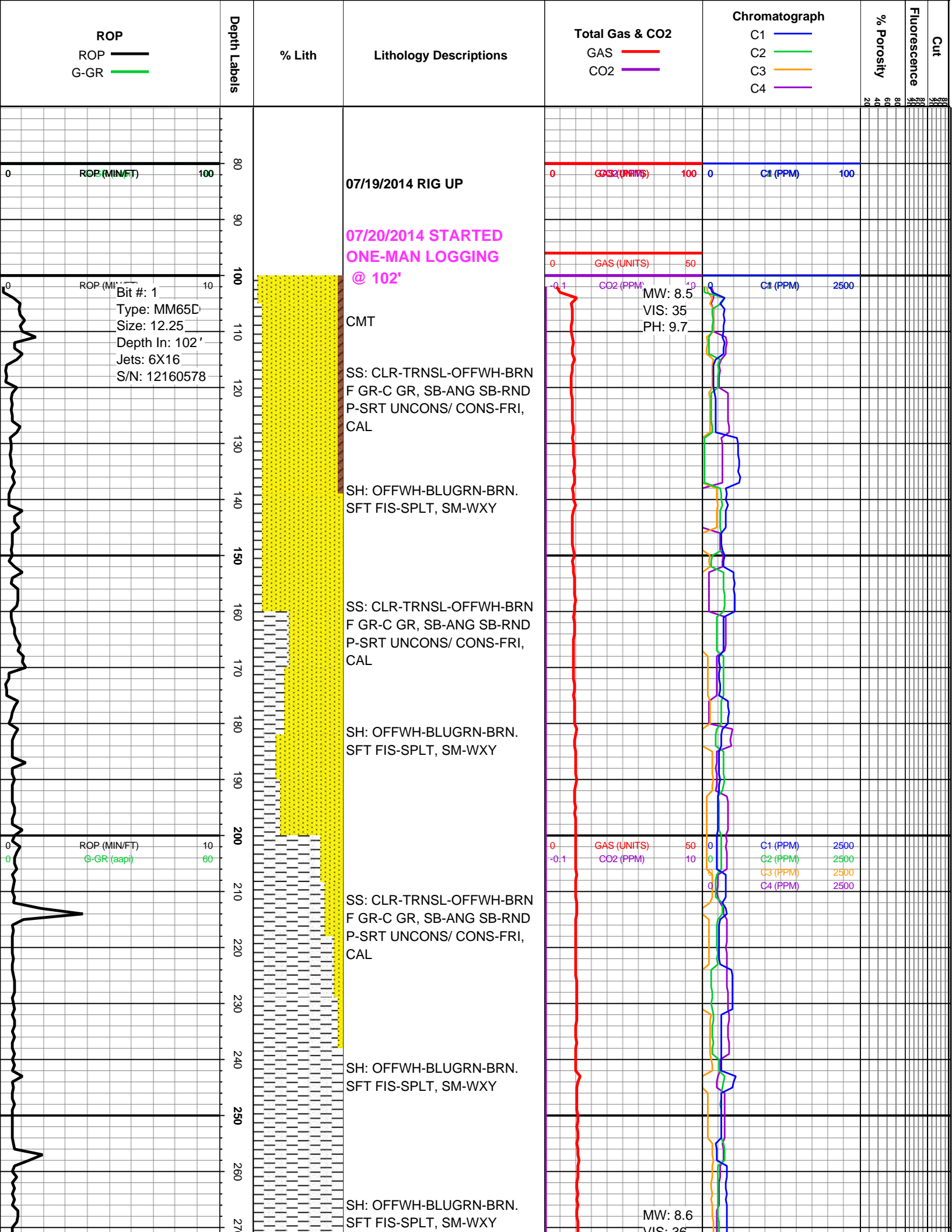
 TUFF

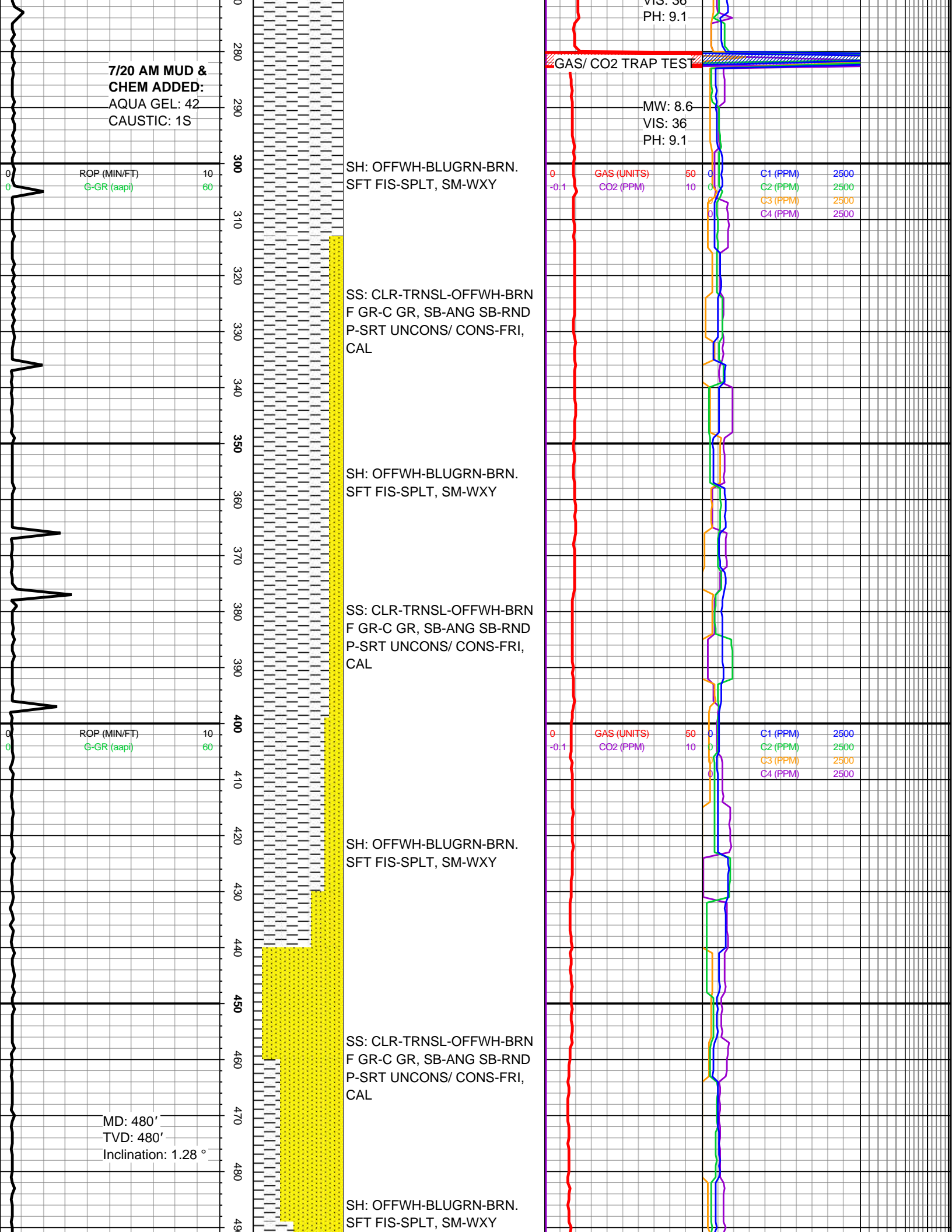
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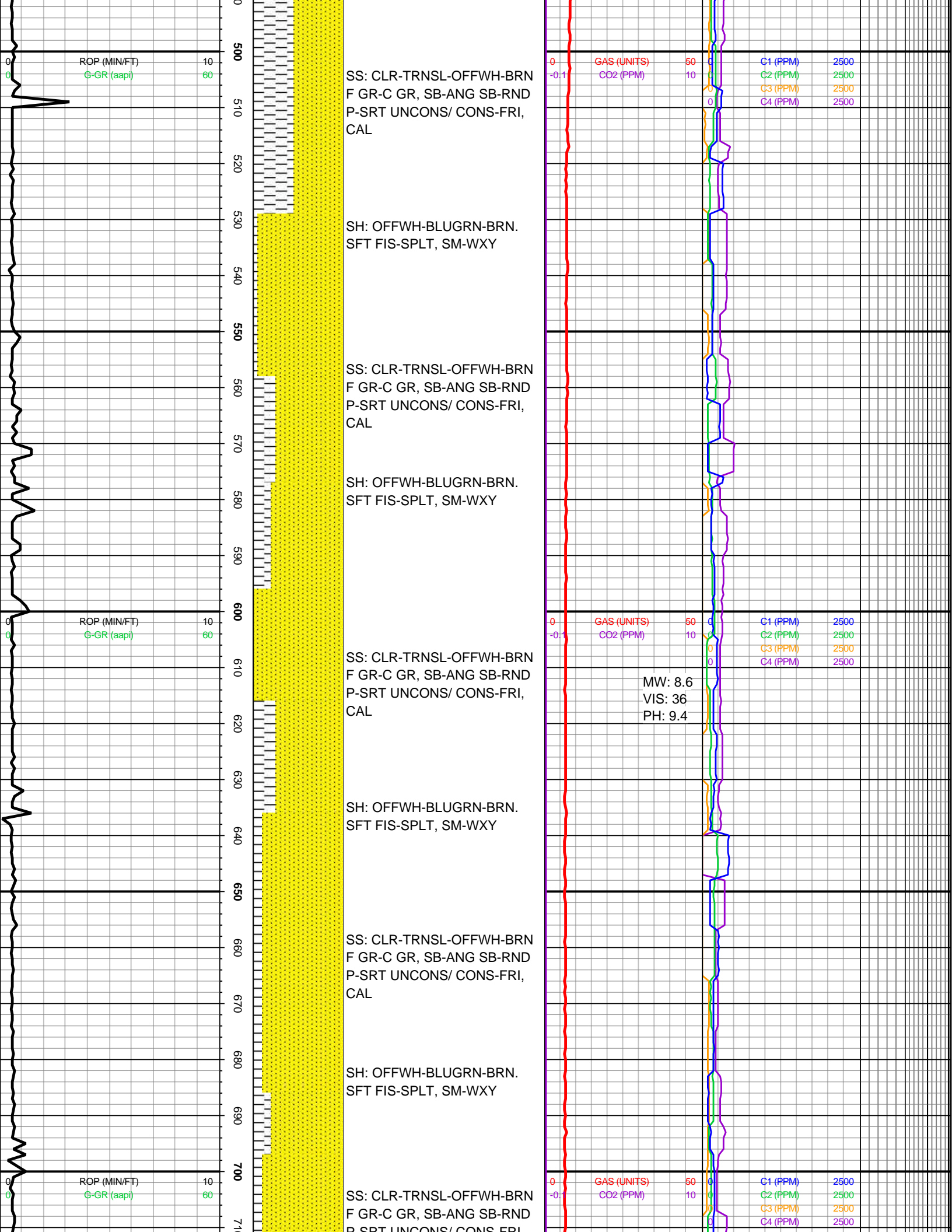
 METAMORPHIC

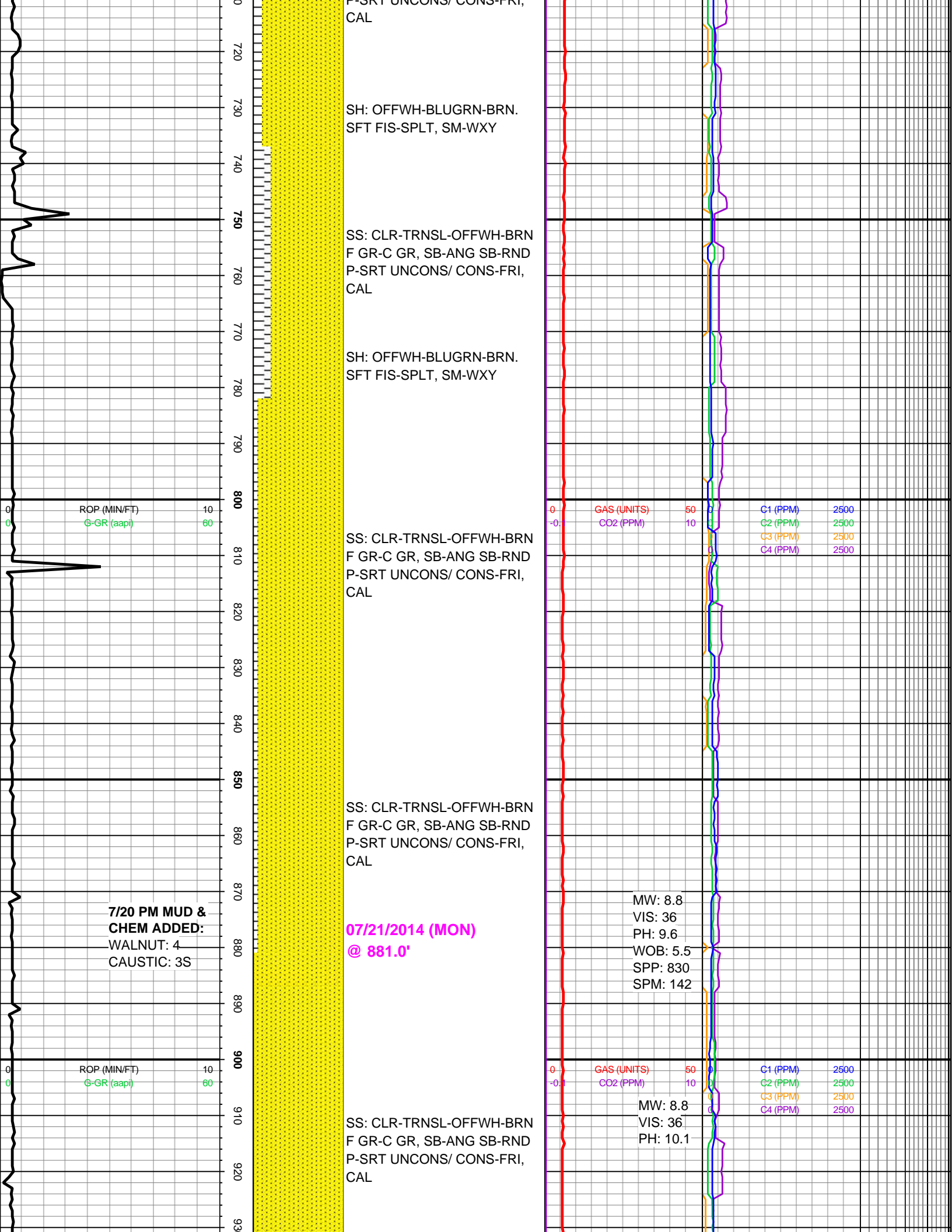
Operator

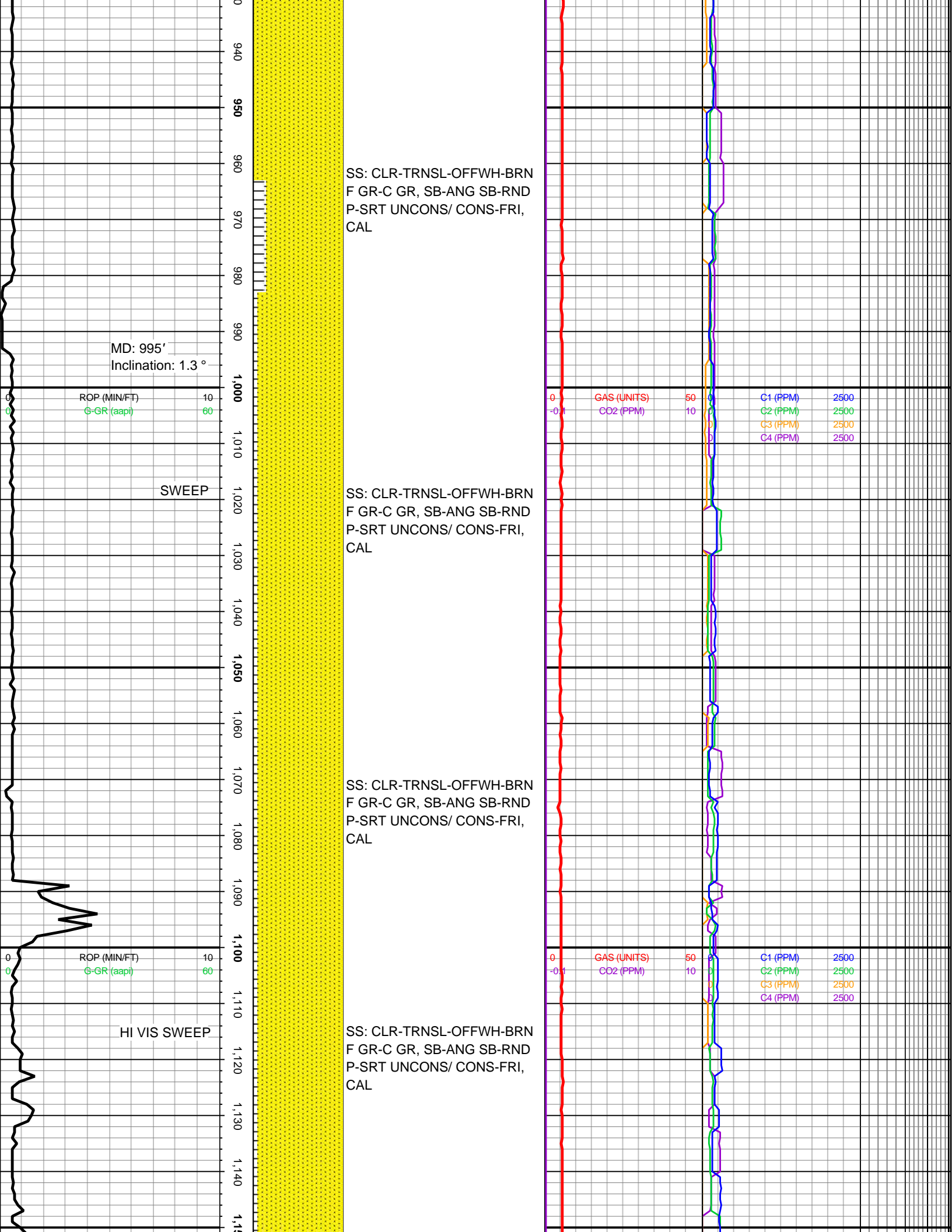
Company KINDER MORGAN

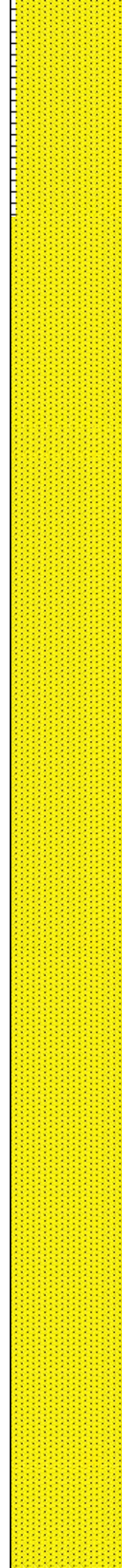
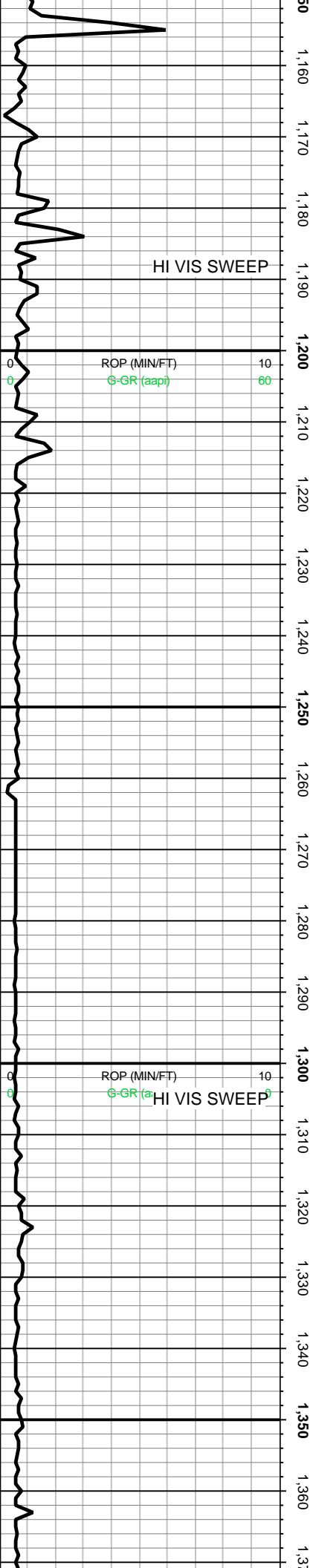












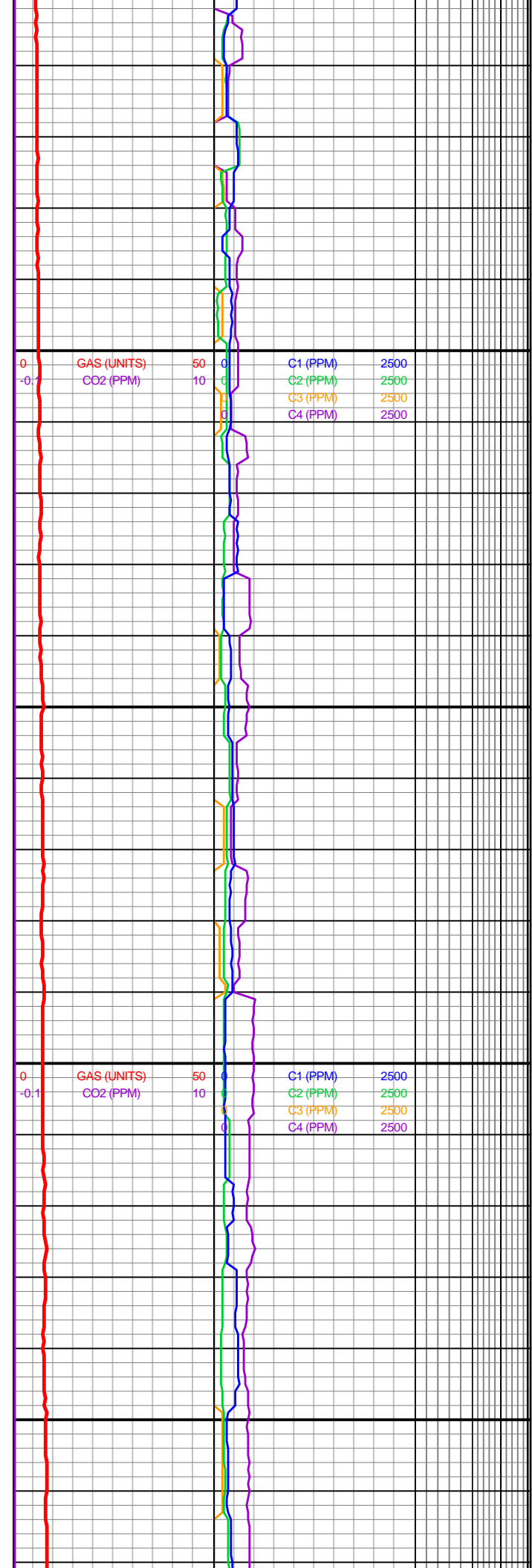
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F GR-C GR, SB-ANG
SB-RNDP-SRT UNCONS/
CONS-FRI, CAL

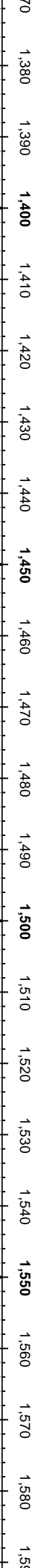
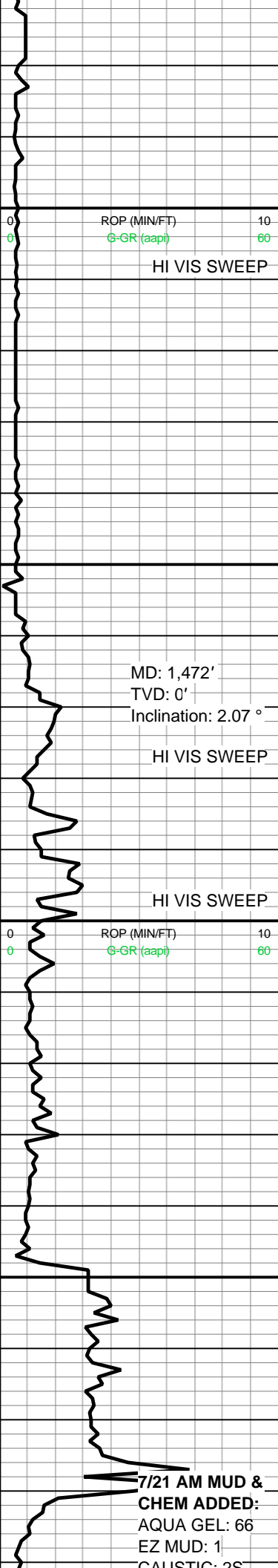
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SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-BRN
F GR-C GR, SB-ANG SB-RND
P-SRT UNCONS/ CONS-FRI,
CAL

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-BRN
F GR-C GR, SB-ANG SB-RND
P-SRT UNCONS/ CONS-FRI,
CAL





SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG SB-RND P-SRT CONS-FRI, CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG SB-RND P-SRT CONS-FRI, CAL, SHY

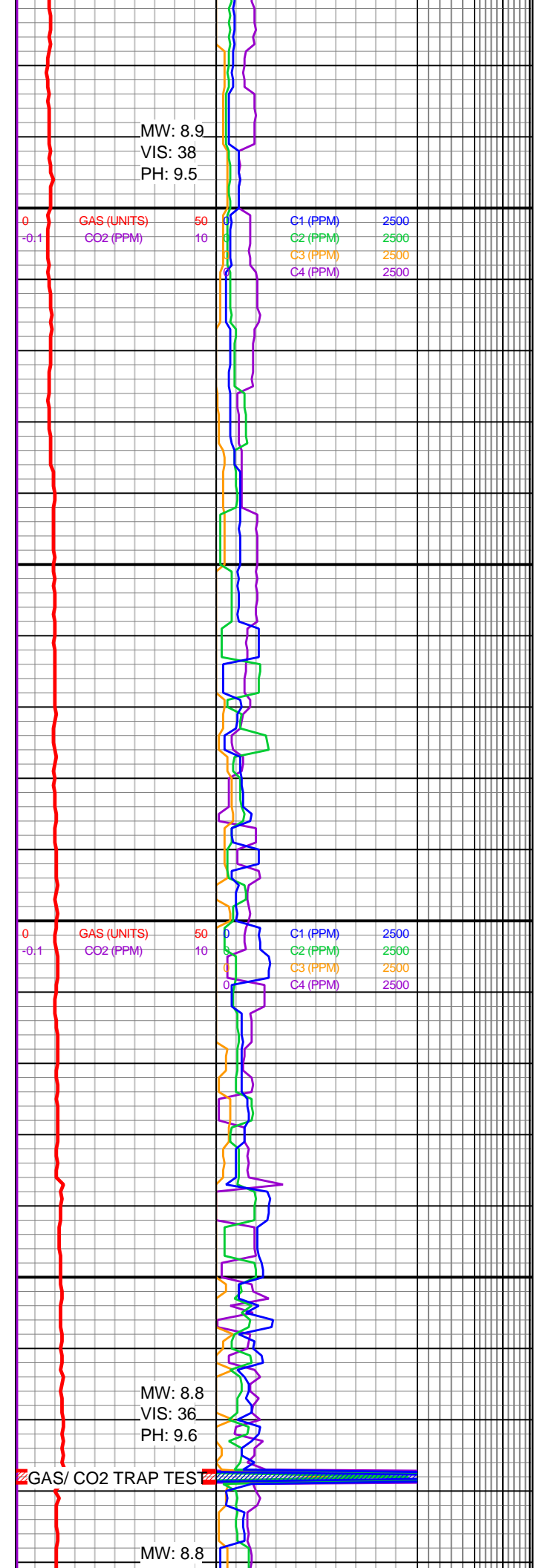
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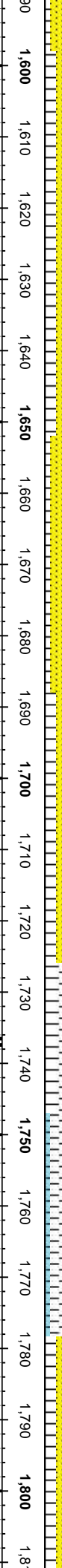
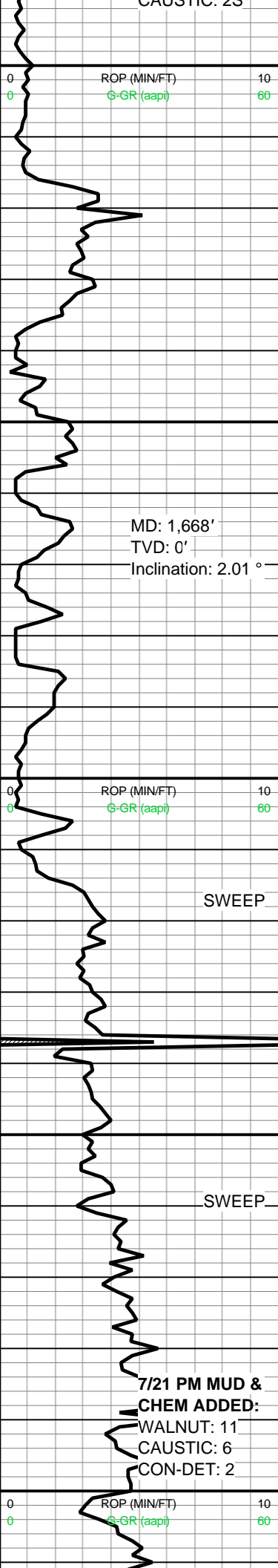
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SH: OFFWH-BLUGRN-BRN. SFT FIS-SPLT, SM-WXY

SS: CLR-TRNSL-OFFWH-BRN F GR-C GR, SB-ANG SB-RND P-SRT UNCONS/ CONS-FRI, CAL

SH: OFFWH-BLUGRN-BRN. SFT FIS-SPLT, SM-WXY





SS: CLR-TRNSL-OFFWH-BRN
F GR-C GR, SB-ANG SB-RND
P-SRT UNCONS/ CONS-FRI,
CAL

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SH: OFFWH-BLUGRN-BRN.
SFT FIS-SPLT, SM-WXY

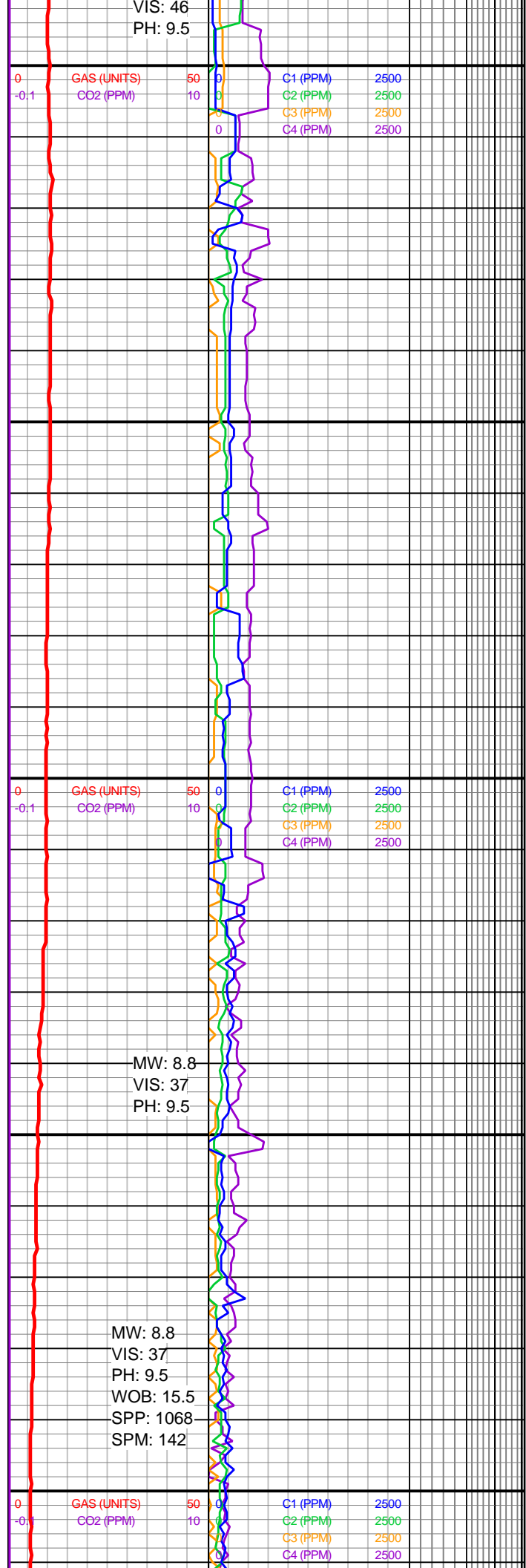
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SB-RND P-SRT CONS-FRI,
CAL, SHY

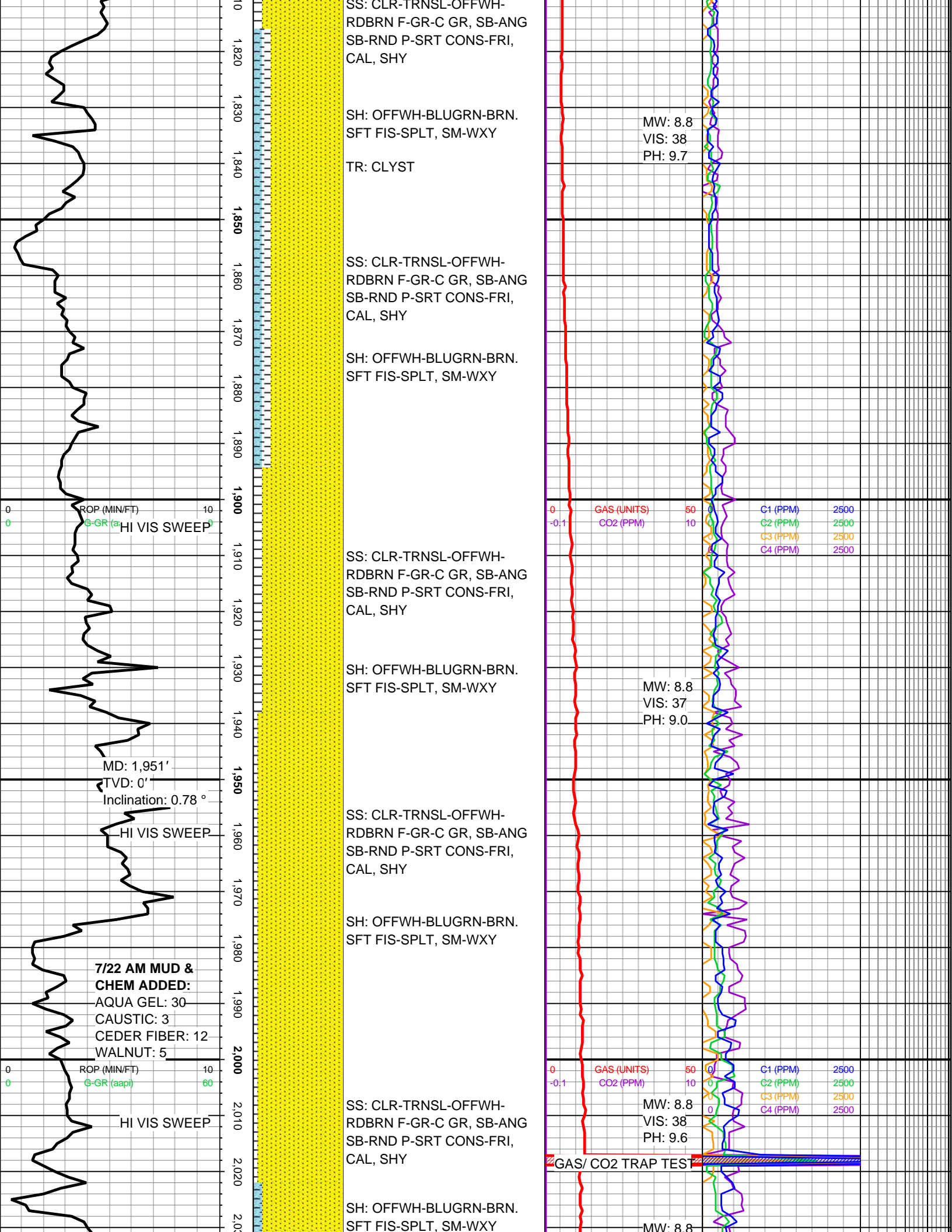
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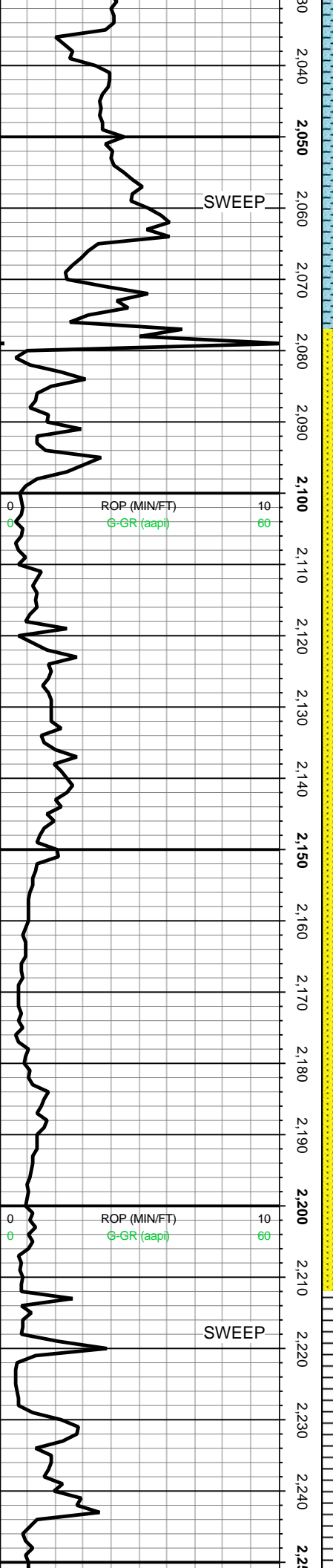
SH: OFFWH-BLUGRN-BRN.
SFT FIS-SPLT, SM-WXY

07/22/2014 (TUES)
@ 1798.4'

SS: CLR-TRNSL-OFFWH-







TR: CLYST

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

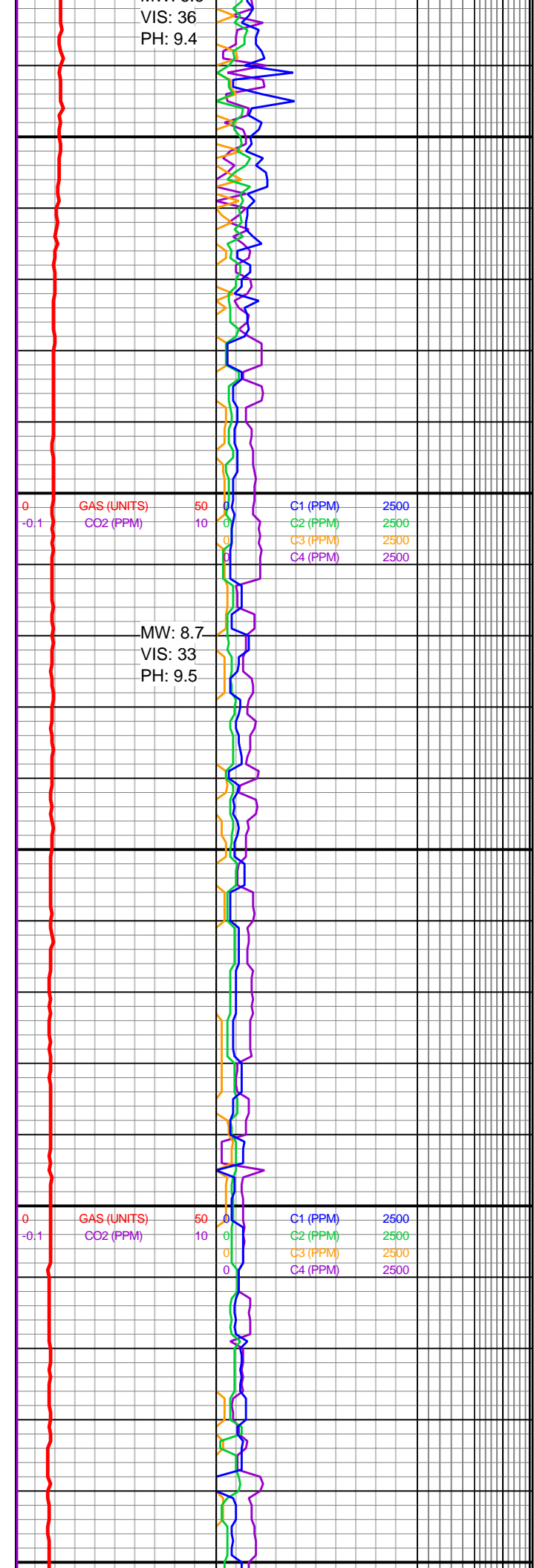
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SFT FIS-SPLT, SM-WXY

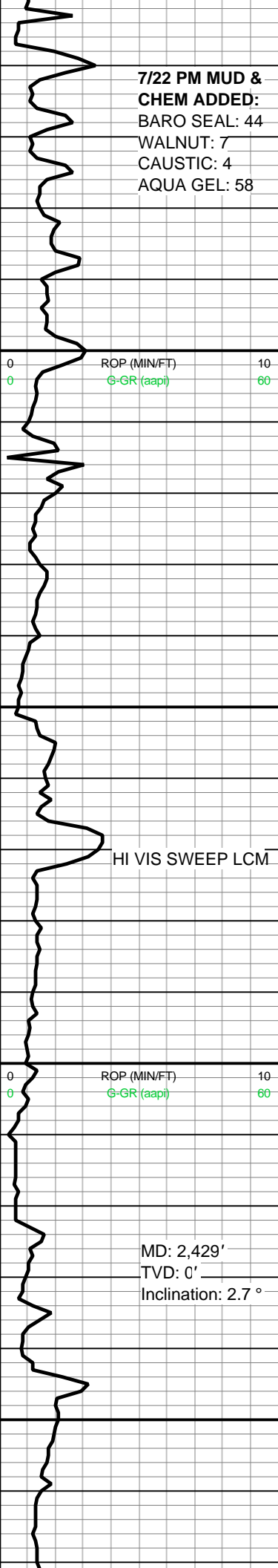
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SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SH: OFFWH-BLUGRN-BRN.
SFT FIS-SPLT, SM-WXY





2,250
2,260
2,270
2,280
2,290
2,300
2,310
2,320
2,330
2,340
2,350
2,360
2,370
2,380
2,390
2,400
2,410
2,420
2,430
2,440
2,450
2,460
2,470



SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

07/23/2014 (WED)
@ 2276.4'

SH: BLUGRN-BRN-DKBRN,
SFT-HD FIS-SPLT

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SH: BRN-DKBRN, SFT-HD
FIS-SPLT

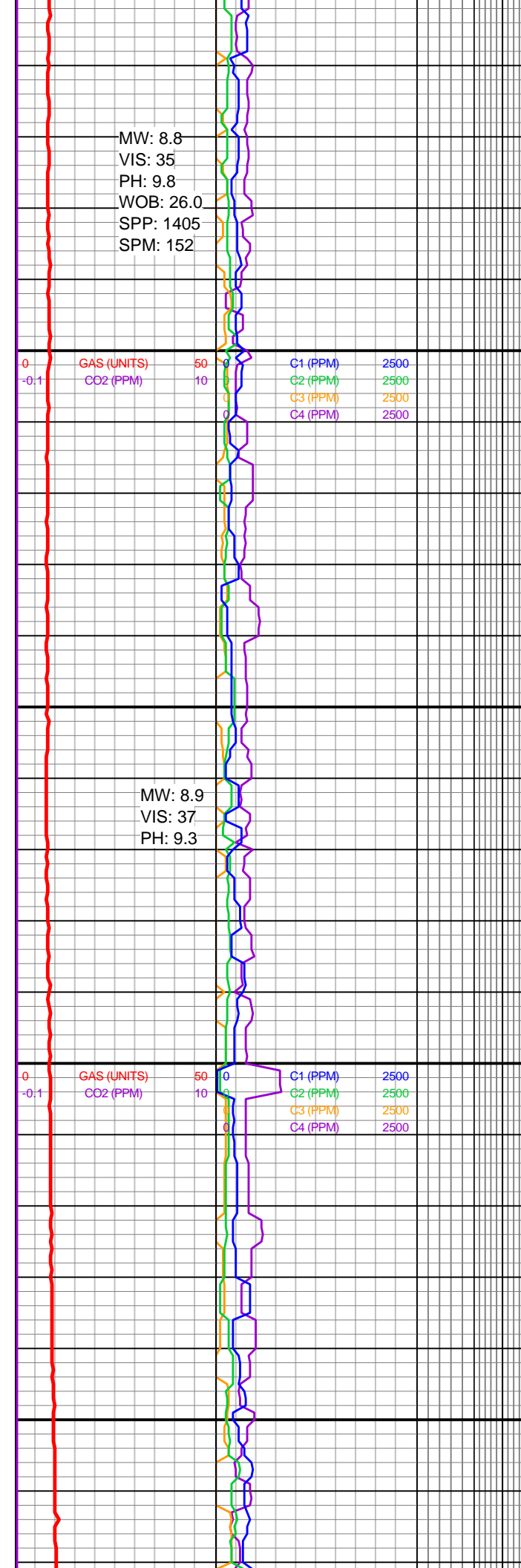
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RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SH: BRN-DKBRN, SFT-HD
FIS-SPLT

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SH: BRN-DKBRN, SFT-HD
FIS-SPLT

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

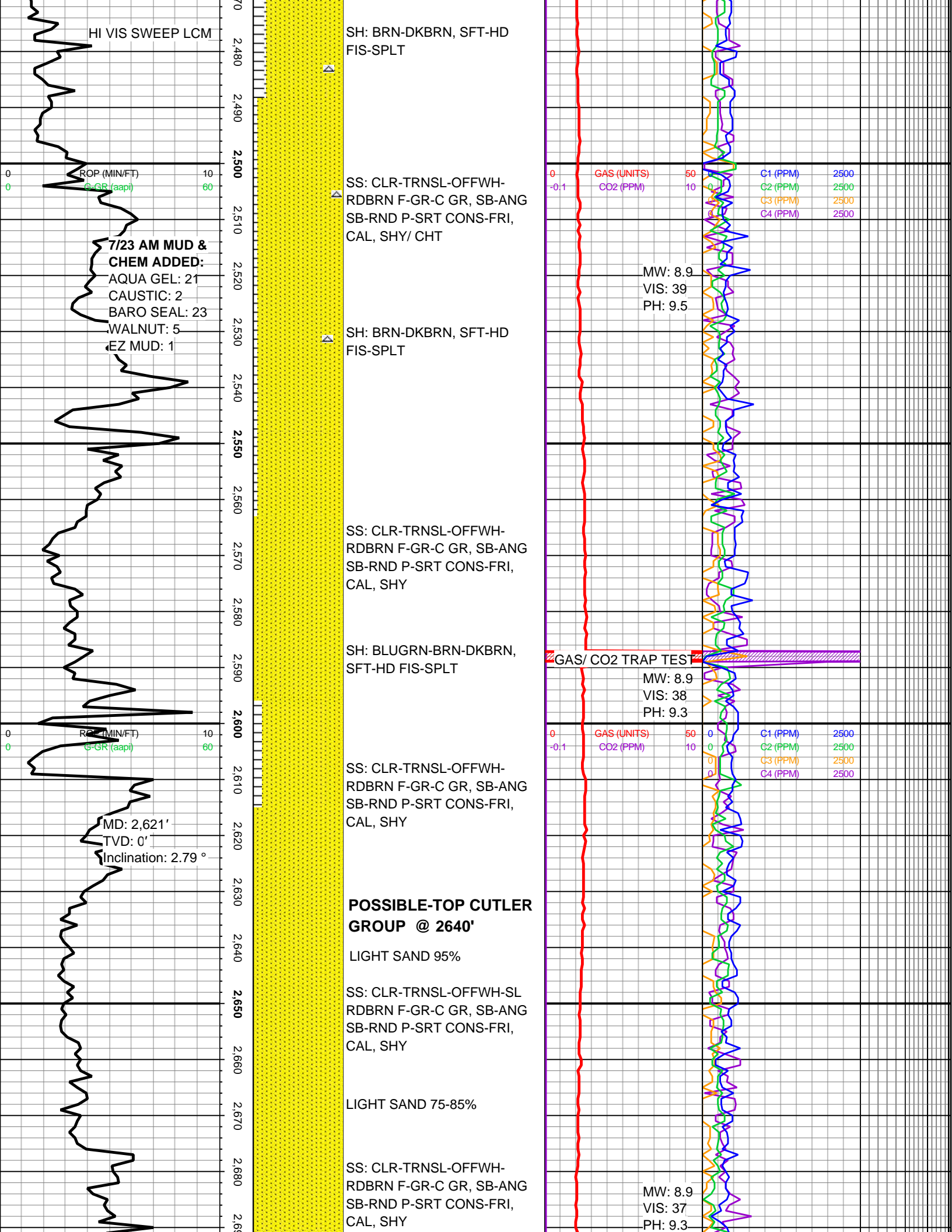


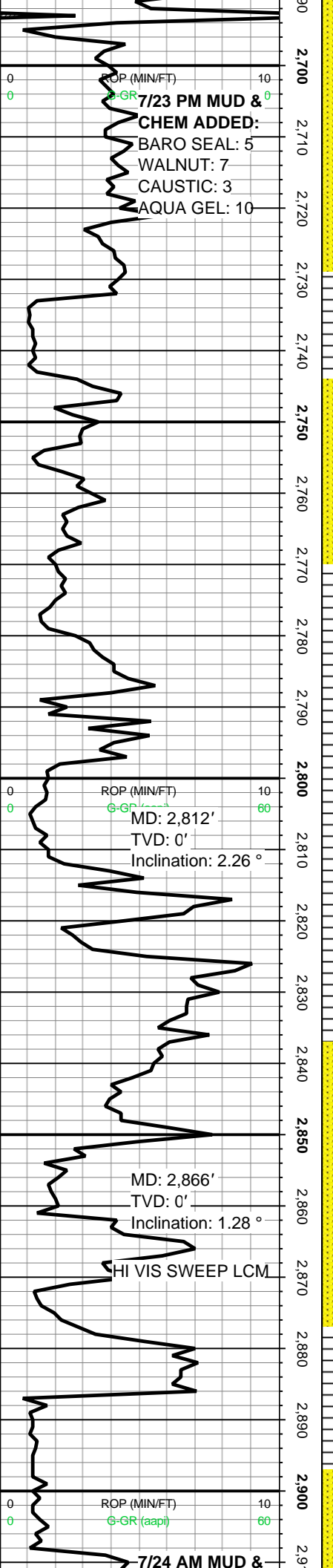
MW: 8.8
VIS: 35
PH: 9.8
WOB: 26.0
SPP: 1405
SPM: 152

MW: 8.9
VIS: 37
PH: 9.3

GAS (UNITS) 50
CO2 (PPM) 10
C1 (PPM) 2500
C2 (PPM) 2500
C3 (PPM) 2500
C4 (PPM) 2500

GAS (UNITS) 50
CO2 (PPM) 10
C1 (PPM) 2500
C2 (PPM) 2500
C3 (PPM) 2500
C4 (PPM) 2500





2,700 LIGHT SAND 10-15%

2,710

2,720

2,730

2,740

2,750

2,760

2,770

2,780

2,790

2,800

2,810

2,820

2,830

2,840

2,850

2,860

2,870

2,880

2,890

2,900

2,910

07/24/2014 (THUR)
@ 2718.5'

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI, CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI, CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI, CAL, SHY

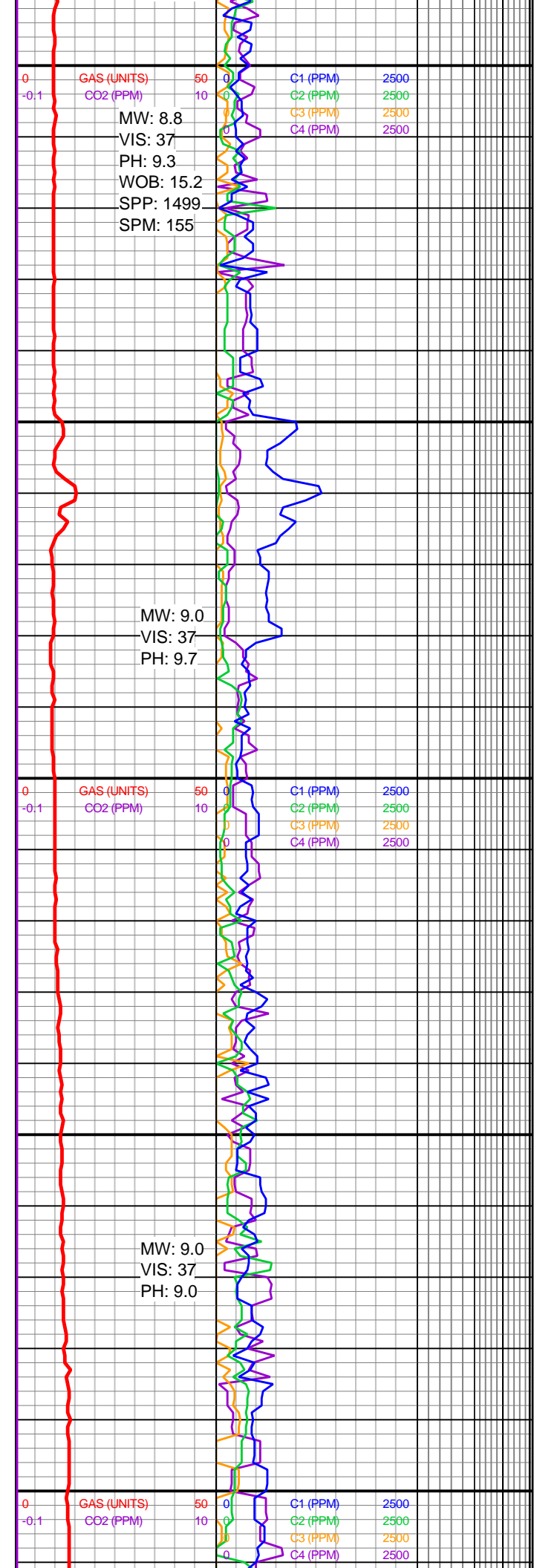
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SB-RND P-SRT CONS-FRI, CAL, SHY

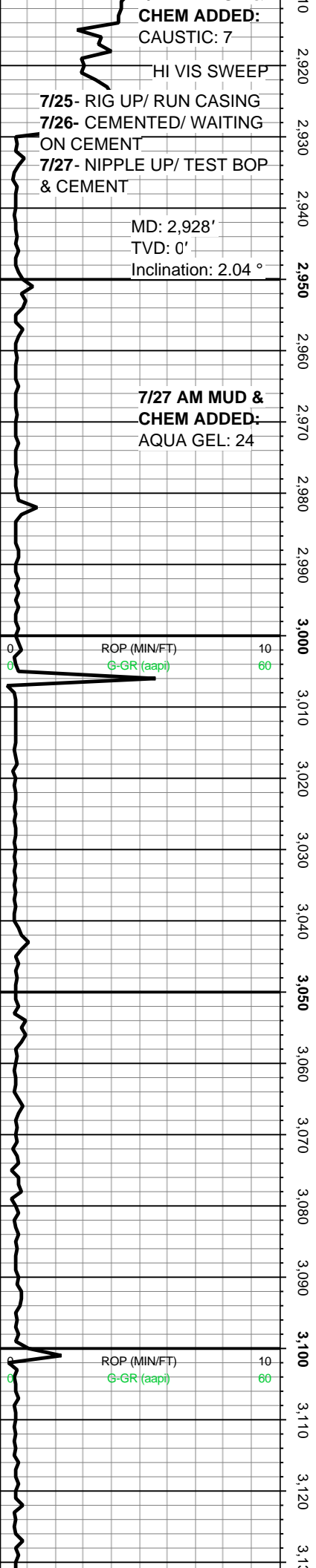
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SB-RND P-SRT CONS-FRI, CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI, CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI, CAL, SHY

SS: CLR-TRNSL-OFFWH-RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI, CAL, SHY





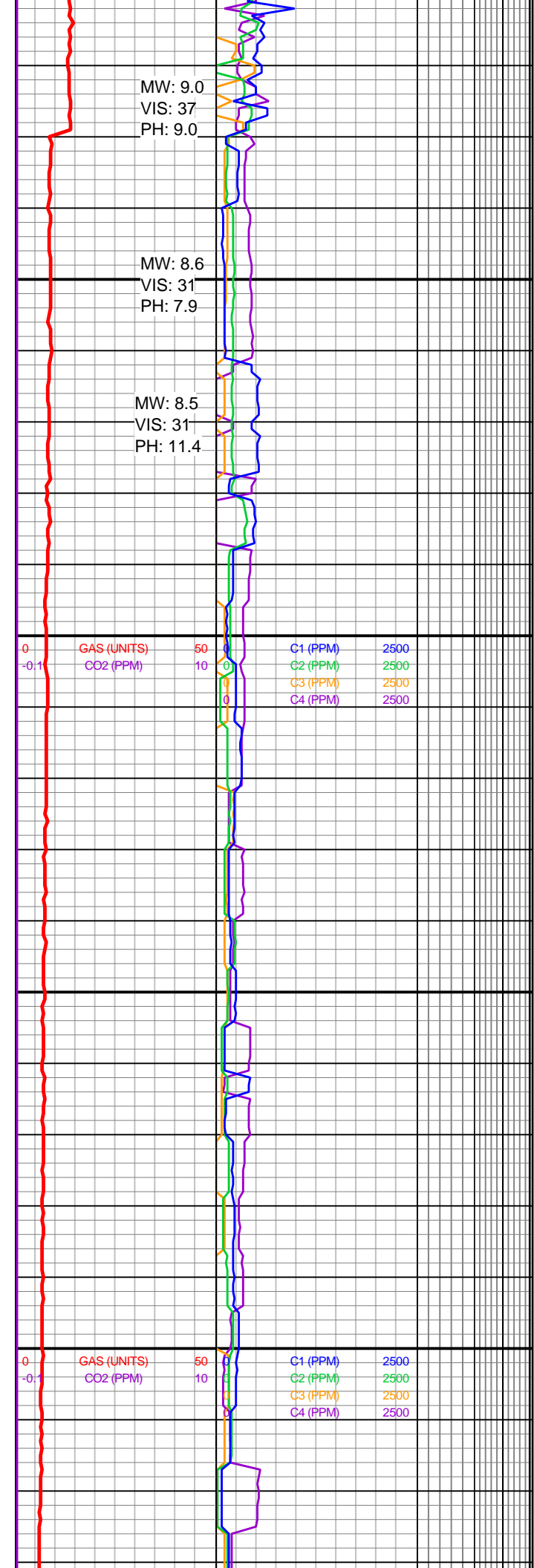
07/25 (FRI) -07/27 (SUN)
@ 2930.1'

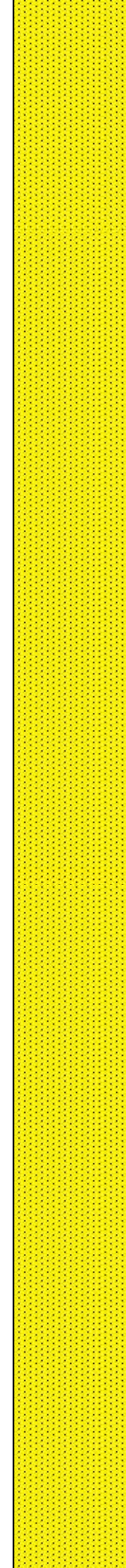
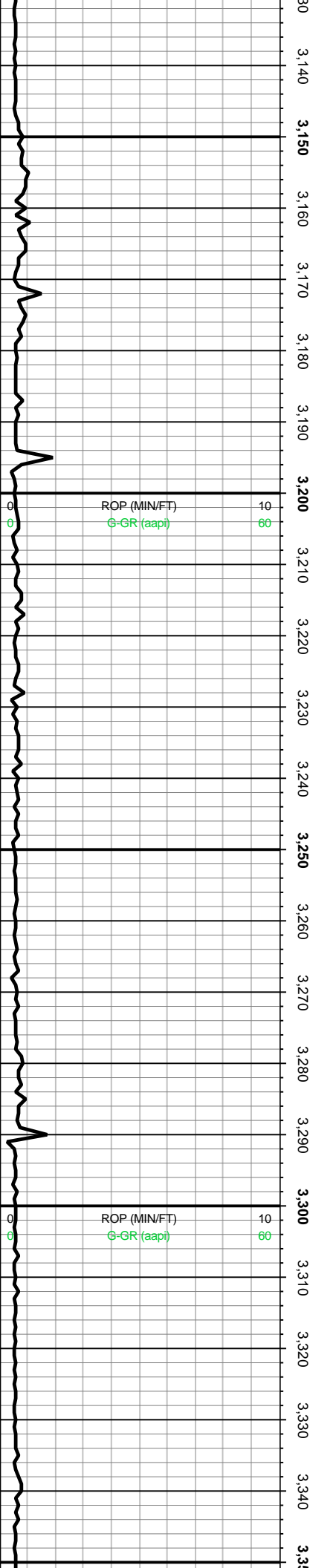
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RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY



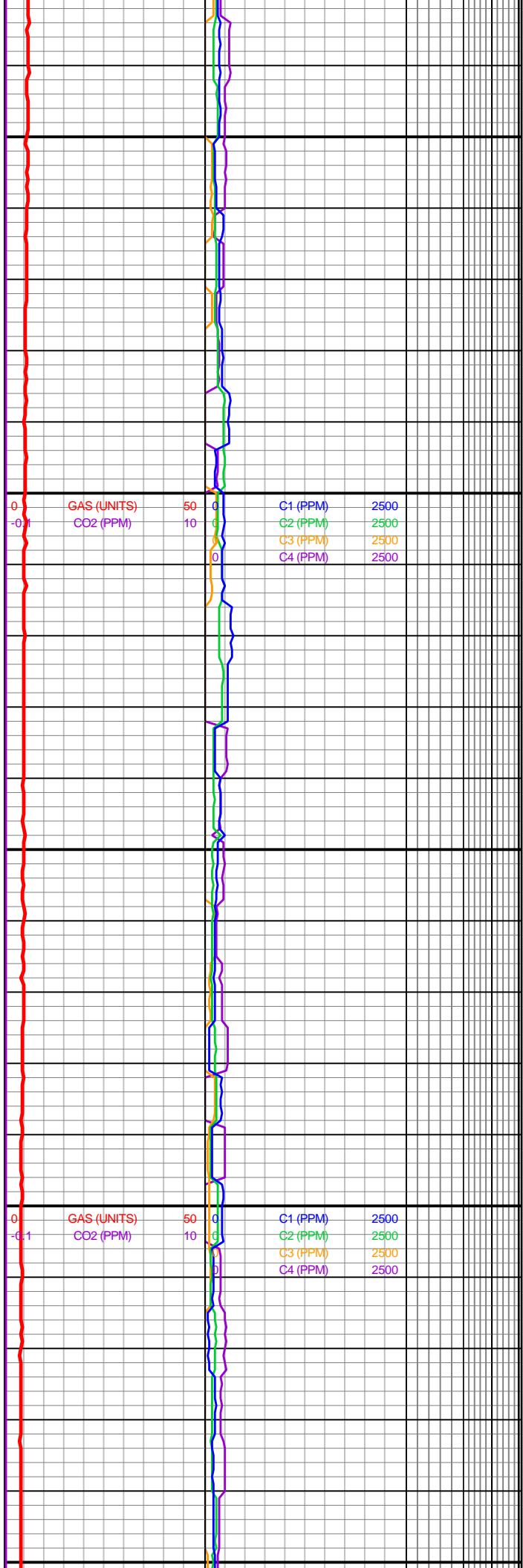


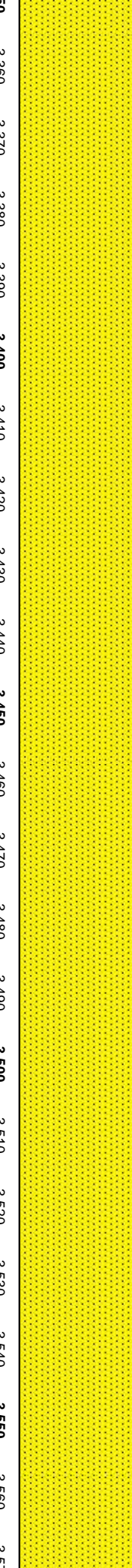
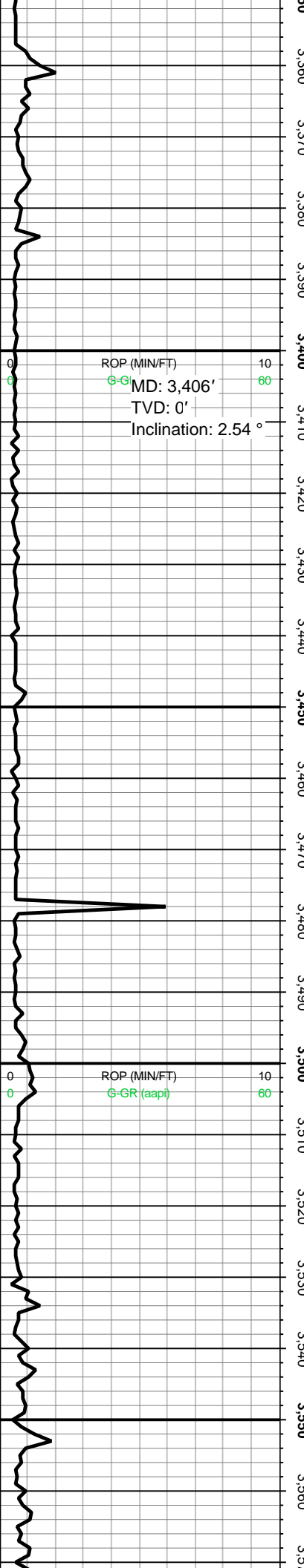
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SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY





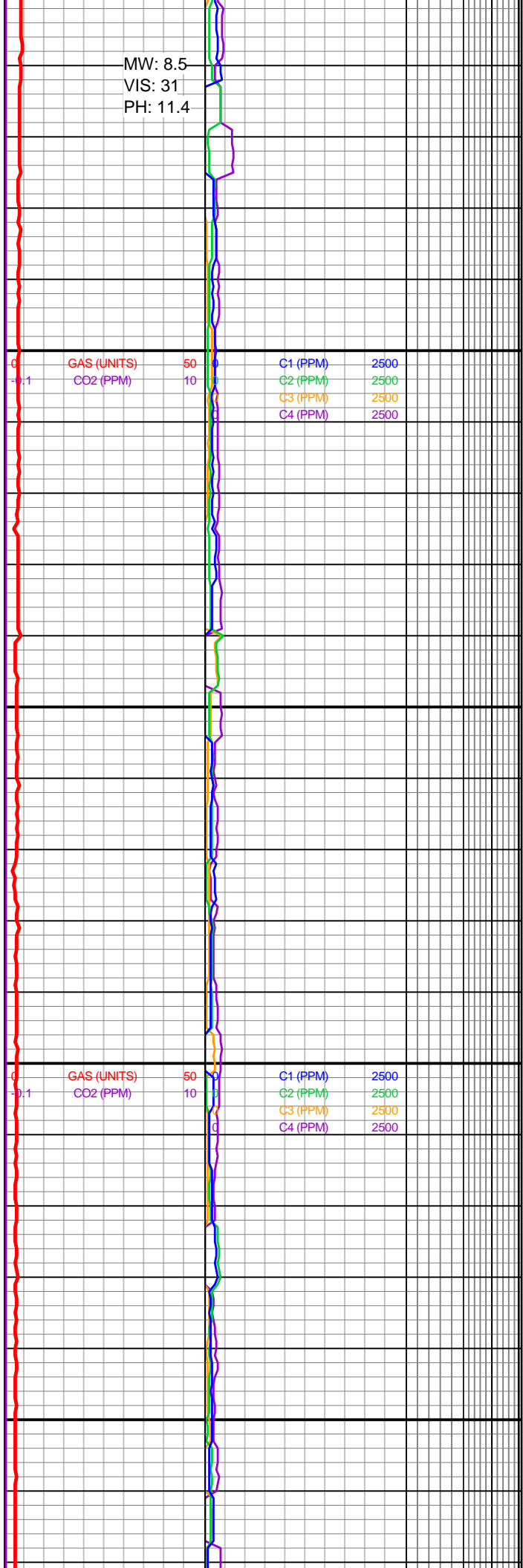
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RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

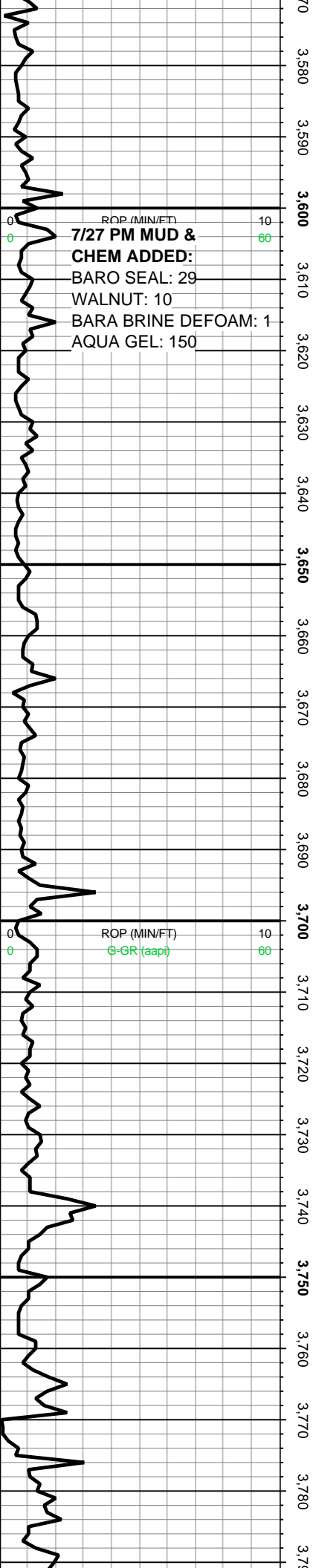
SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-





ROP (MIN/FT)
7/27 PM MUD &
CHEM ADDED:
BARO SEAL: 29
WALNUT: 10
BARA BRINE DEFOAM: 1
AQUA GEL: 150

3,570
3,580
3,590
3,600
3,610
3,620
3,630
3,640
3,650
3,660
3,670
3,680
3,690
3,700
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3,720
3,730
3,740
3,750
3,760
3,770
3,780

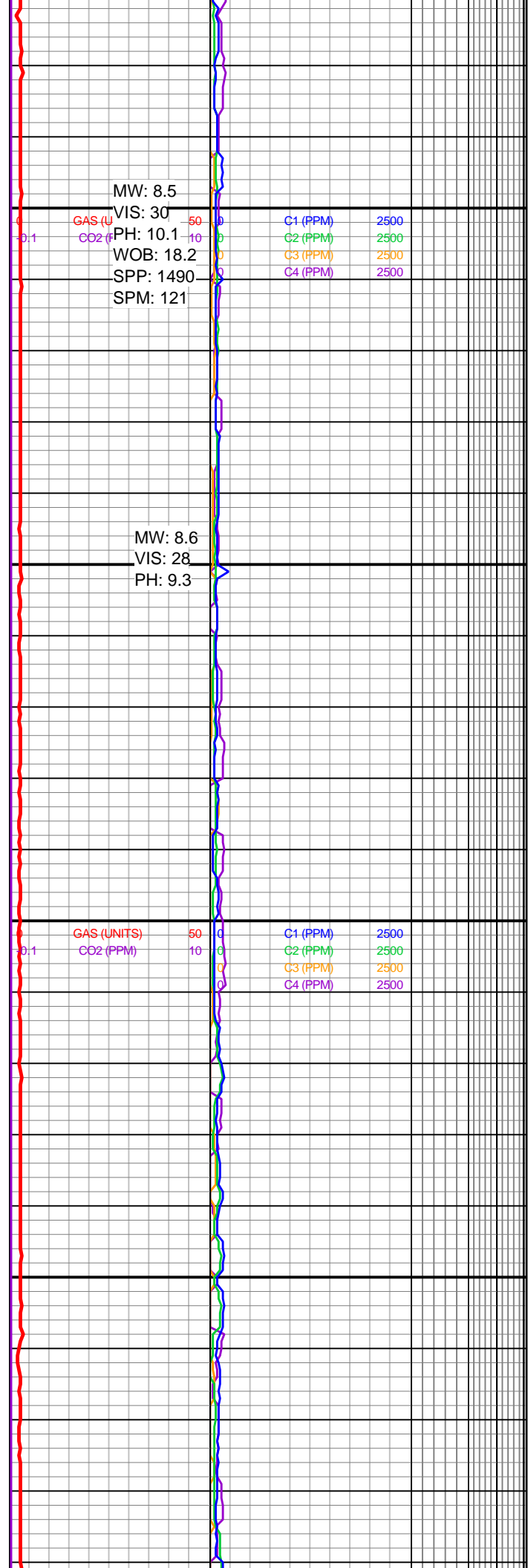
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

07/28/2014 (MON)
@ 3617.8'

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

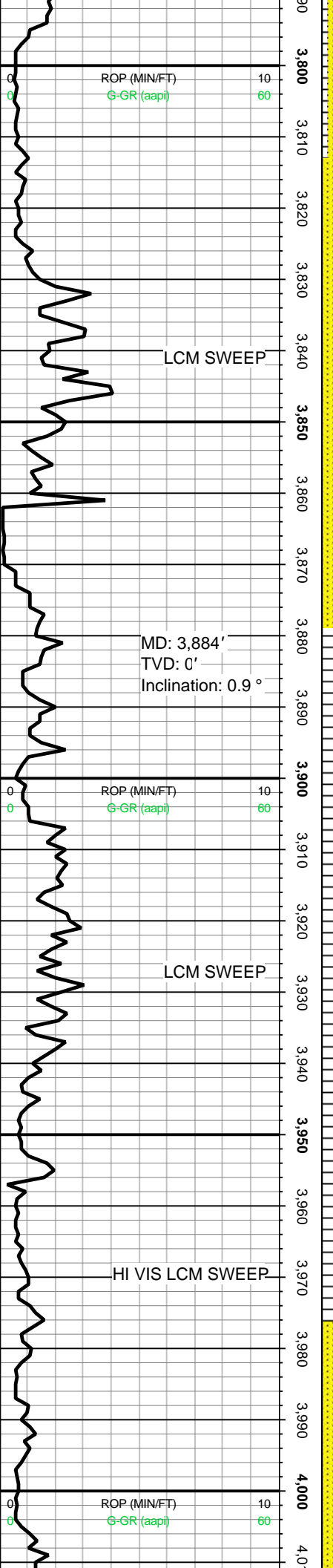
SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY



MW: 8.5
VIS: 30
PH: 10.1
WOB: 18.2
SPP: 1490
SPM: 121

MW: 8.6
VIS: 28
PH: 9.3

GAS (UNITS) 50
CO2 (PPM) 10
C1 (PPM) 2500
C2 (PPM) 2500
C3 (PPM) 2500
C4 (PPM) 2500

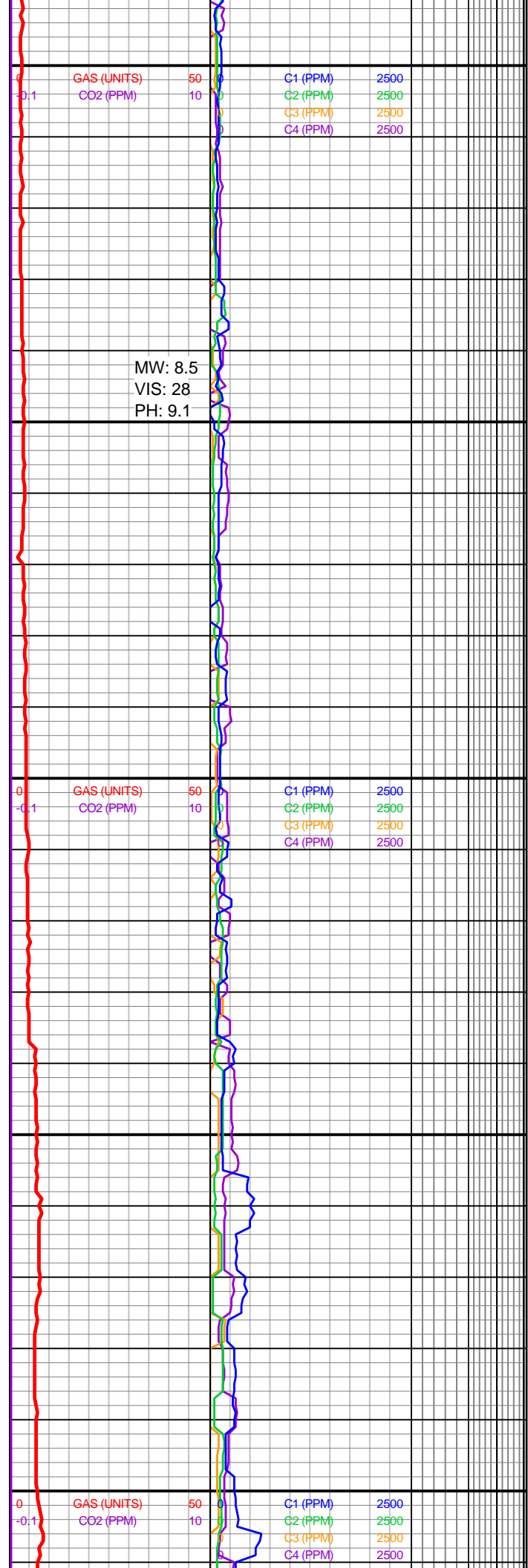


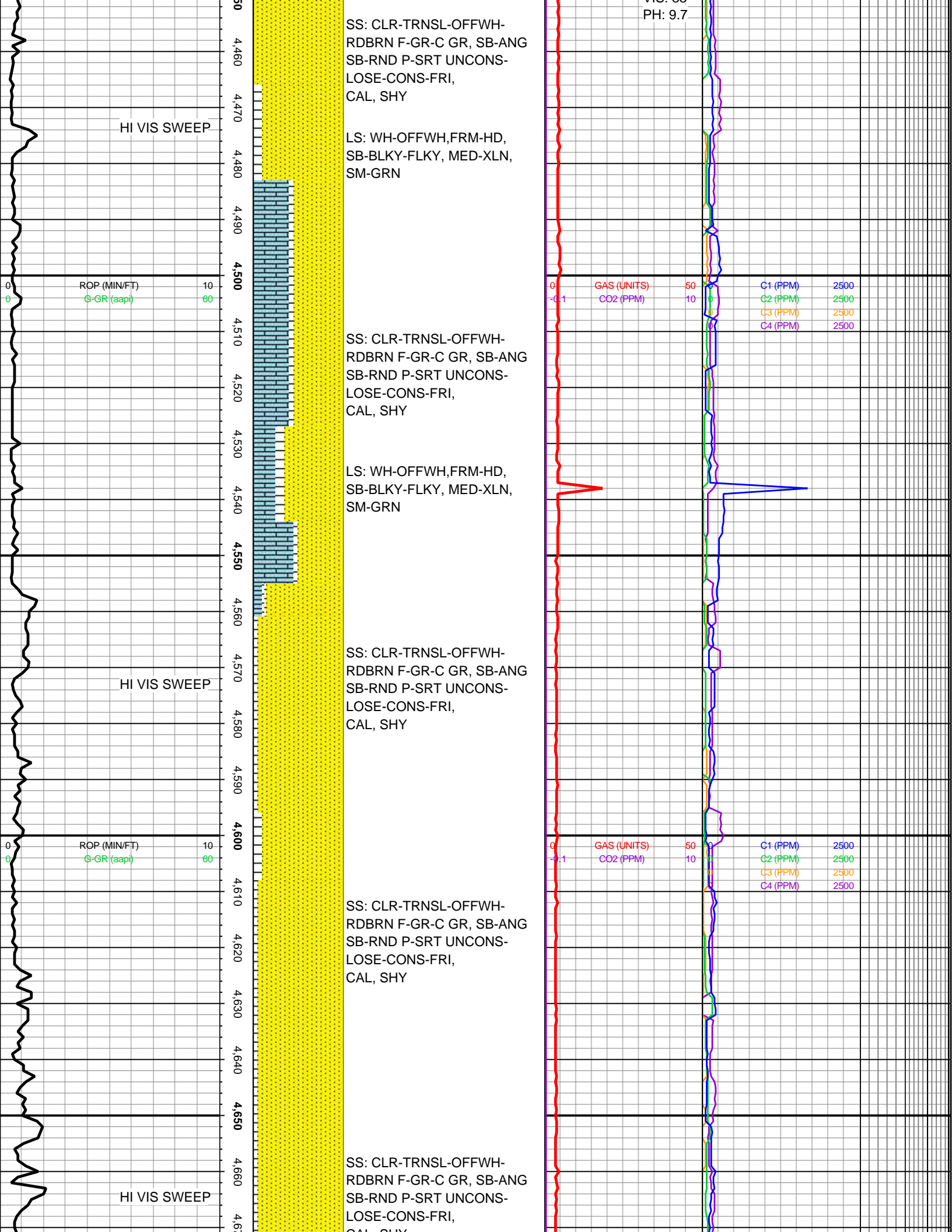
SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT UNCONS-
LOSE-CONS-FRI,
CAL, SHY

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT UNCONS-
LOSE-CONS-FRI,
CAL, SHY





7/28 PM MUD &
CHEM ADDED:
AQUA GEL: 146
BARO SEAL: 7
EZ MUD: 4
CAUSTIC: 3

CAL, SHY

07/29/2014 (TUES)
@ 4692.2'

MW: 9.0
VIS: 35
PH: 9.3
WOB: 22.6
SPP: 1851
SPM: 132

ROP (MIN/FT) 10
G-GR (aapi) 60

LS: WHT, LT GRY, GRY,
SFT-MED, MIC XLN, SMOOTH,
SUB-ANGULAR, P SRT

GAS (UNITS) 50
CO2 (PPM) 10
C1 (PPM) 2500
C2 (PPM) 2500
C3 (PPM) 2500
C4 (PPM) 2500

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT UNCONS-
LOSE-CONS-FRI,
CAL, SHY

LS: WHT, LT GRY, GRY,
SFT-MED, MIC XLN, SMOOTH,
SUB-ANGULAR, P SRT

SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT UNCONS-
LOSE-CONS-FRI,
CAL, SHY

ROP (MIN/FT) 10
G-GR (aapi) 60

LS: WHT, LT GRY, GRY,
SFT-MED, MIC XLN, SMOOTH,
SUB-ANGULAR, P SRT

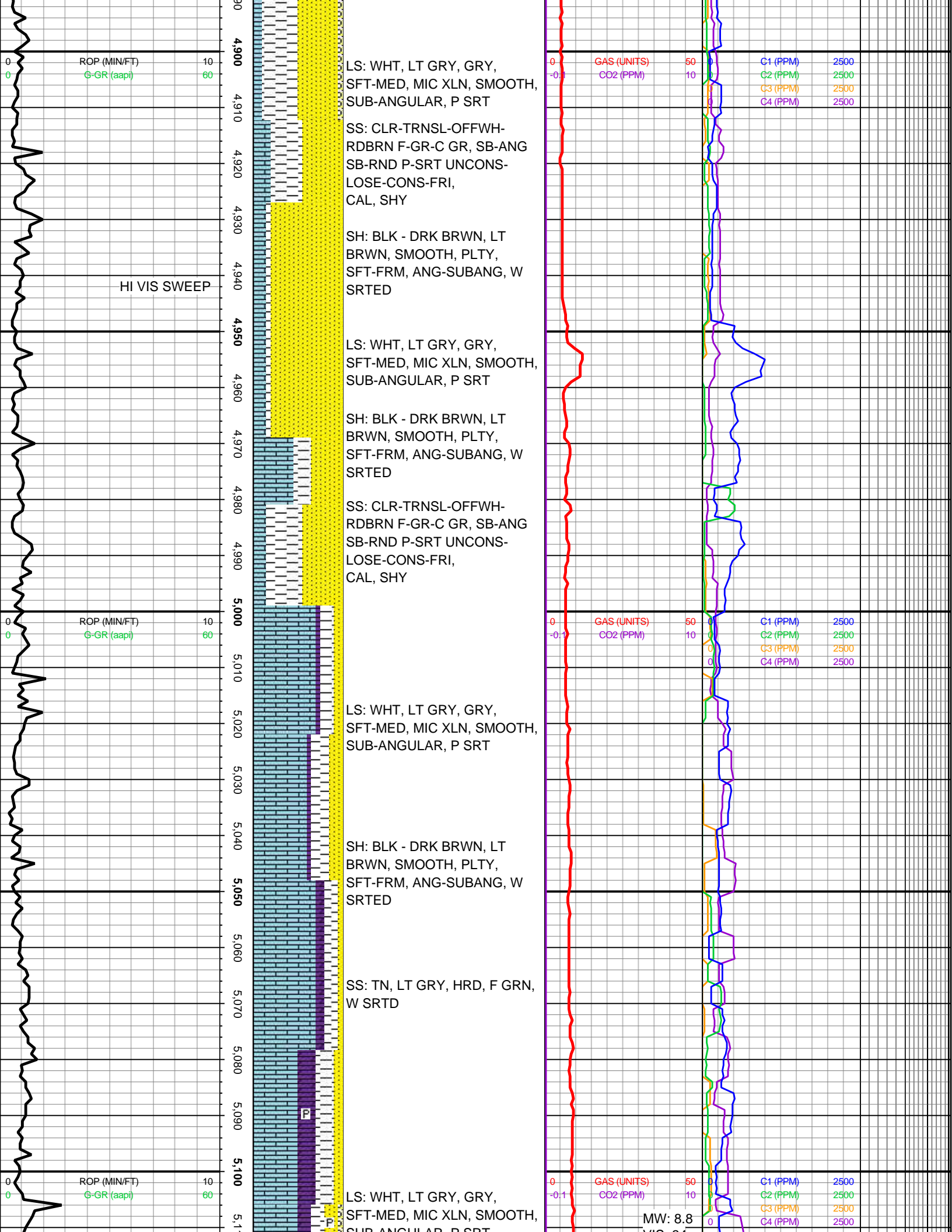
MW: 9.0
VIS: 34
PH: 9.0

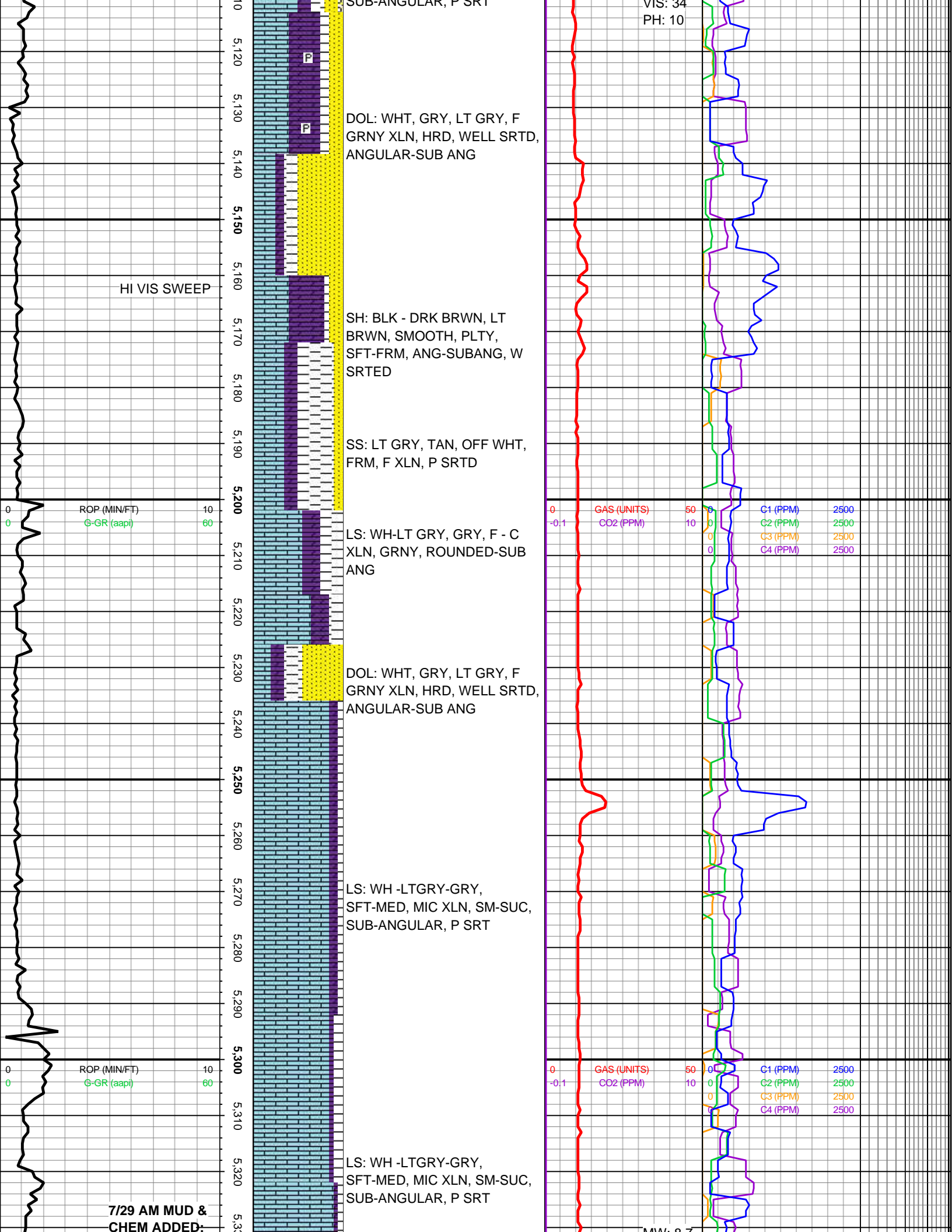
HI VIS SWEEP

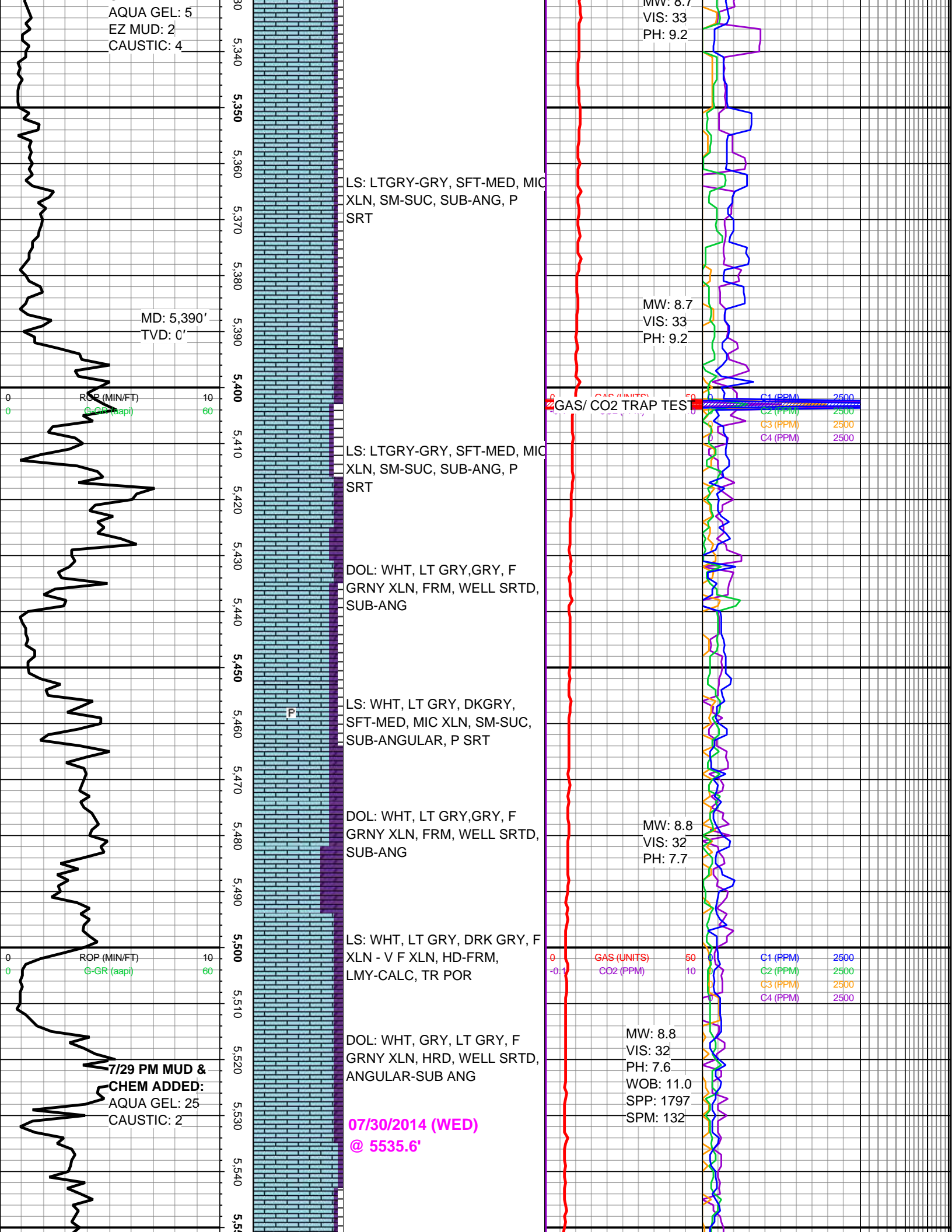
SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT UNCONS-
LOSE-CONS-FRI,
CAL, SHY

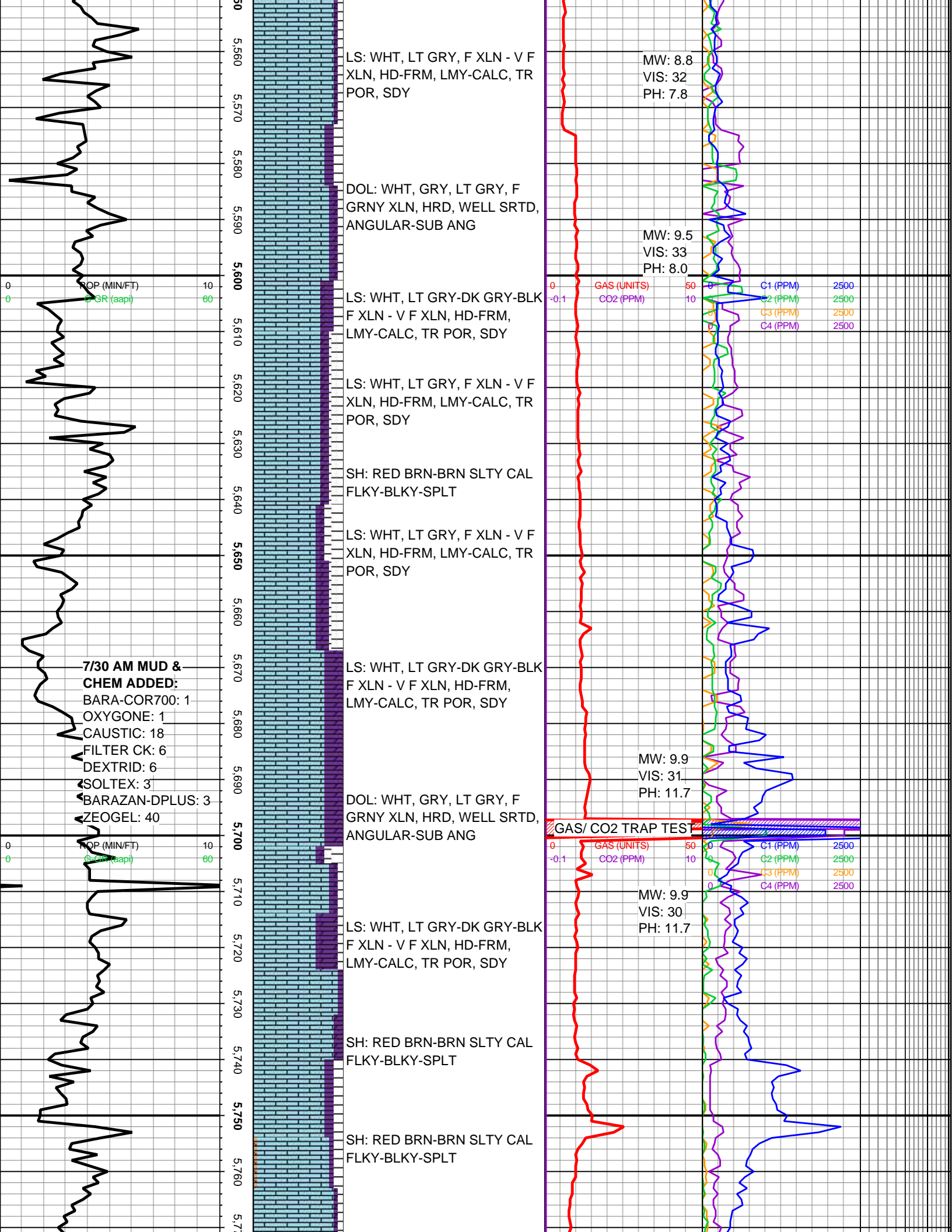
LS: WHT, LT GRY, GRY,
SFT-MED, MIC XLN, SMOOTH,
SUB-ANGULAR, P SRT

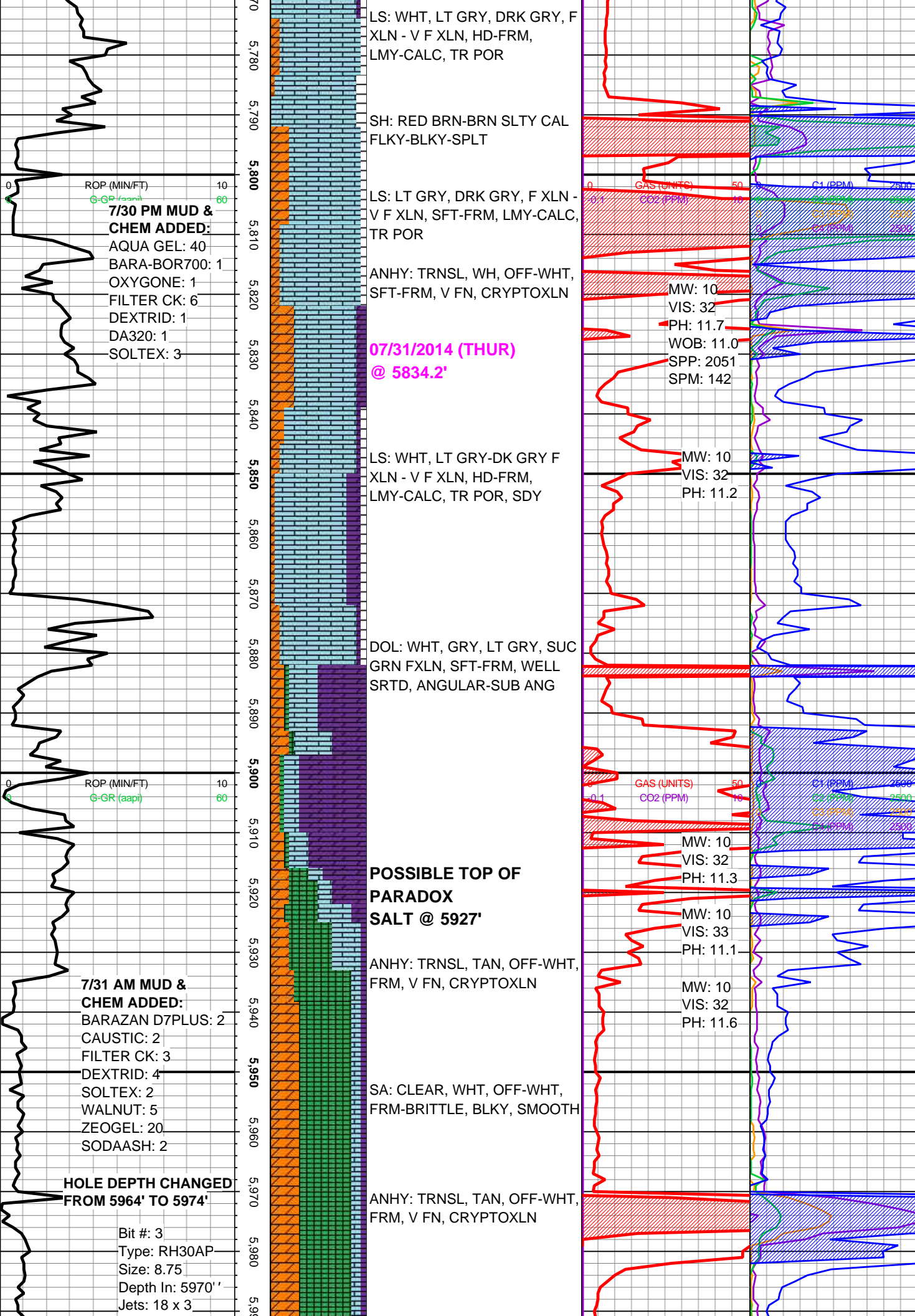
SS: CLR-TRNSL-OFFWH-
RDBRN F-GR-C GR, SB-ANG
SB-RND P-SRT UNCONS-
LOSE-CONS-FRI,
CAL, SHY











S/N: D197750

TOOH @ 5994'

BIT CHANGE

ROP (MIN/FT)

G-GR (aapi)

7/31 PM MUD & CHEM ADDED:

AQUA GEL: 10

EZMUD: 1

OXYGONE: 1

FILTER CK: 6

SHUT-IN WELL
H2S AND TOTAL
GASES

SHUT-IN WELL
H2S AND TOTAL
GASES

SHUT-IN WELL
WELL KICK
GAIN UP TO 100
BBLS
FLARE 30-40'

HIGH

ROP (MIN/FT)

G-GR (aapi)

SA: CLEAR, WHT, OFF-WHT,
FRM-BRITTLE, BLKY, SMOOTH

08/01/2014 (FRI)
@ 6019.3'

SA: CLEAR, WHT, OFF-WHT,
FRM-BRITTLE, BLKY, SMOOTH

ANHY: TRNSL, TAN, OFF-WHT,
FRM, V FN, CRYPTOXLN

SA: CLEAR, WHT, OFF-WHT,
FRM-BRITTLE, BLKY, SMOOTH

ANHY: TRNSL, TAN, OFF-WHT,
FRM, V FN, CRYPTOXLN

08/02/2014 (SAT)
@ 6103.6'

SA: CLR, WHT, OFF-WHT,
FRM-HD, BLKY-GRAN,
GRN-SM

SHALE 1 & 2: 6122' - 6135'

SH: BLK, DRK GRY, SFT-FRM,
BLKY, SUB-ANGULAR, W
SRTD

SHALE 3: 6147' - 6160'

SA: CLR, WHT, OFF-WHT,
FRM-HD, BLKY-GRAN,
GRN-SM

SHALE 4: 6172' - 6198'

SH: BLK, DRK GRY, SFT-FRM,
BLKY, SUB-ANGULAR, W
SRTD

MW: 10.1

GAS (UNITS) 32

PH: 11.2

WOB: 20.2

SPP: 1822

SPM: 126

MW: 10

VIS: 30

PH: 11.4

MW: 10.1

H2S @ 26 PP

VIS: 34

PH: 11.9

GAS RANGING

200-4650 UNITS

MW: 10.3

VIS: 32

PH: 11.9

GAS RANGING

200-1650 UNITS

MW: 10.7

VIS: 38

PH: 11.6

GAS RANGING

200- 8000+ UNITS

MW: 10.6

VIS: 39

PH: 11.6

GAS (UNITS) 50

PH: 11.6

WOB: 10

SPP: 239

SPM: 40

MW: 10.6

VIS: 37

PH: 11.5

MW: 10.7

VIS: 36

PH: 11.3

GAS RANGING

500- 1000+ UNITS

MW: 10.7

VIS: 37

PH: 11.4

CALIBRATING

GAS (UNITS) 50

PH: 11.4

WOB: 10

SPP: 1822

SPM: 126

C1 (PPM) 2500

C2 (PPM) 2500

C3 (PPM) 2500

C4 (PPM) 2500

C1 (PPM) 2500

C2 (PPM) 2500

C3 (PPM) 2500

C4 (PPM) 2500

C1 (PPM) 2500

C2 (PPM) 2500

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C3 (PPM) 2500

C4 (PPM) 2500

