

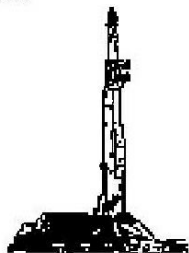
GOOLSBY BROTHERS
and associates, inc.

575 Union Blvd, Suite 208
Lakewood, CO 80228
303-945-2860 Office



Geological Wellsite
Supervision

www.goolsbybrothers.com



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

Well Name: Paragon 24C-31HZ

Location: Section 6 T1N R65W, Weld County, CO.

License Number: API:051233853800, AFE:2088984

Spud Date: January 23rd, 2014

Surface Coordinates: 422' FSL & 360' FEL, Sec. 6 T1NR65W

LAT 40.074414, LON -104.698428

Bottom Hole Coordinates: 2197 FSL & 1250 FEL, Sec. 31 T2NR65W

LAT 40.093581, LON -104.701585

Ground Elevation (ft): 4975

Logged Interval (ft): 6550 To: 14533

Formation: Codell

Type of Drilling Fluid: LSND (Polymer-Water)

K.B. Elevation (ft): 5000

Total Depth (ft): 14533

Region: Wattenberg

Drilling Completed: January 31, 2014

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

OPERATOR

Company: Anadarko Petroleum Corporation

Address: Granite Tower - 1099 18th St, Ste 1800

Denver, CO 80202

CO Geologist, Tom Birmingham.

GEOLOGIST

Name: Hank McCroskey, Marek Ciesnik

Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

E-logs

Casing

9 5/8" Surface Casing (IPSCO 36# J55) set @ 1,108'.
7" Intermediate Casing (IPSCO 26# P110) set @ 7821'.
4 1/2" Production Liner set @ 14,518'

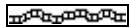
Comments

- 1) Drilling Contractor: H&P 311
Pumps 1 & 2: Gardner Denver PZ 11 6" x 11" (.0914 bbl/stk)
Rig Manager: Jack Truett, James Baggett.
Drillers: Michael Munroe, Christopher Moore, Kenneth Jones, Christopher Beckstead.
- 2) Company Men: Doug Blair, David Wells, Rick Oman
- 3) Mud Company: Halliburton, James Steen
- 4) Directional Drilling: Scientific Drilling
Directional Drillers: Mathew Schwartz, Ian Ensell
MWD: Joshua Denning, Mohamed Sharker.
- 5) Gas Equipment: Mudlogging Systems Inc.
by Terra Services
Redbox # ML-318

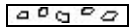
ROCK TYPES



Anhy



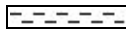
Bent



Brec



Cht



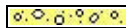
Clyst



Coal



Oil sat.



Congl



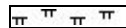
Dol



Gyp



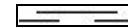
Lmst



Mrlst



Salt



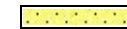
Shale



Shcol



Shgy



Ss



Sltst



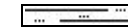
Ss



Chalk



Carb sh



Silty sh

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

FOSSIL

Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral
 Crin
 Echin

Fish
 Foram
 Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

Chlkstg

Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst
 Sltstrg
 Ssstrg

TEXTURE

Boundst
 Chalky

Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

OIL SHOWS

Even
 Spotted
 Ques
 Dead

Vspotty
 near even

POROSITY TYPE

Earthy

Fenest
 Fracture
 Inter
 Moldic
 Organic

Pinpoint
 Vuggy

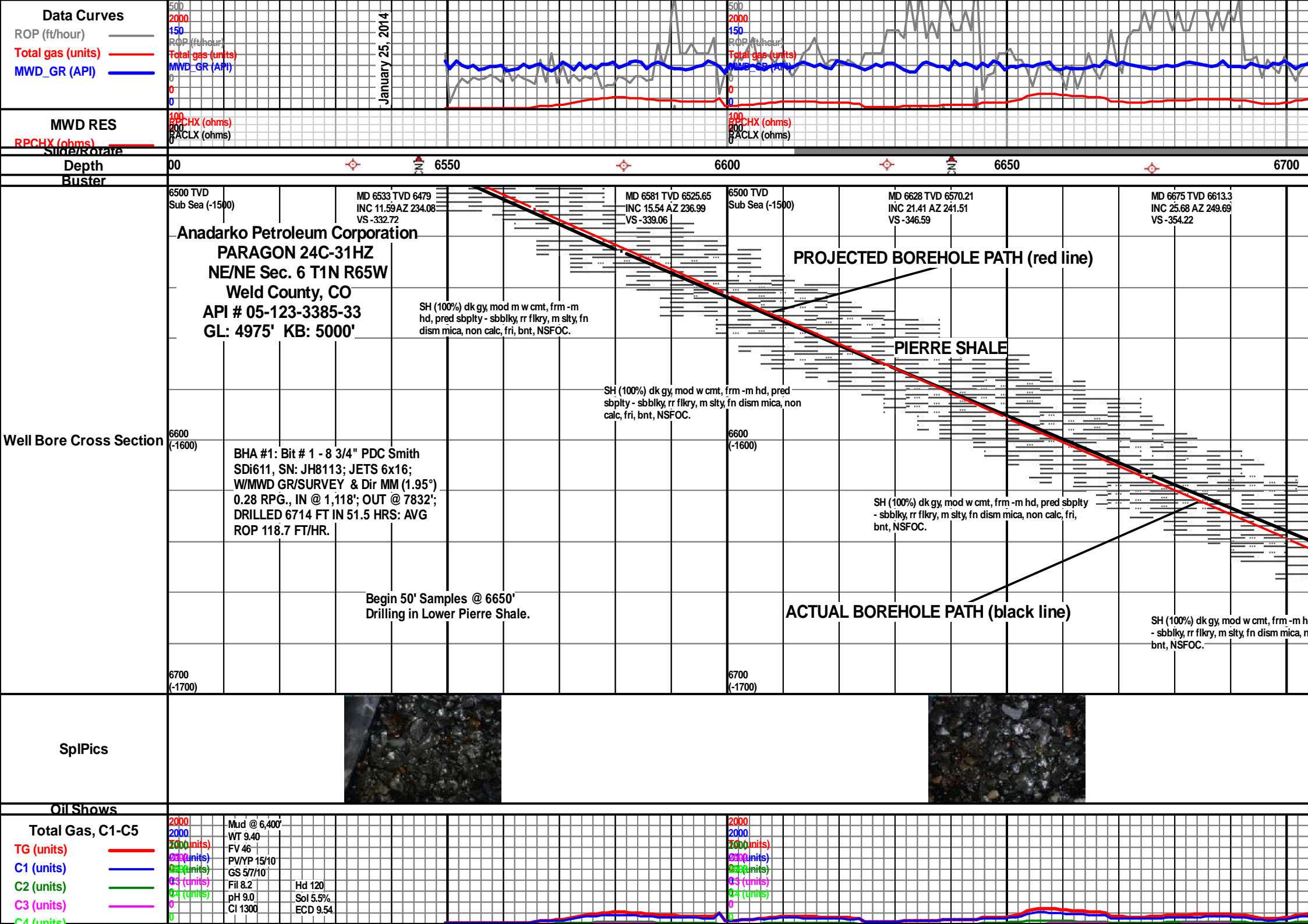
ROUNDING

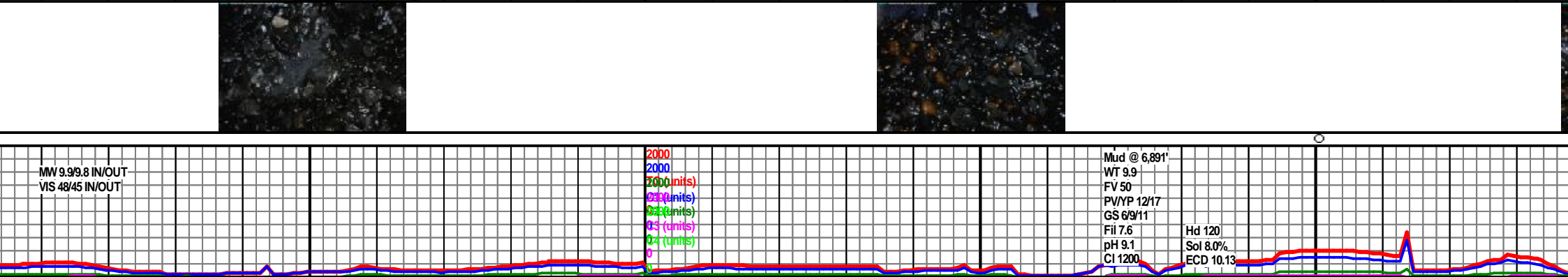
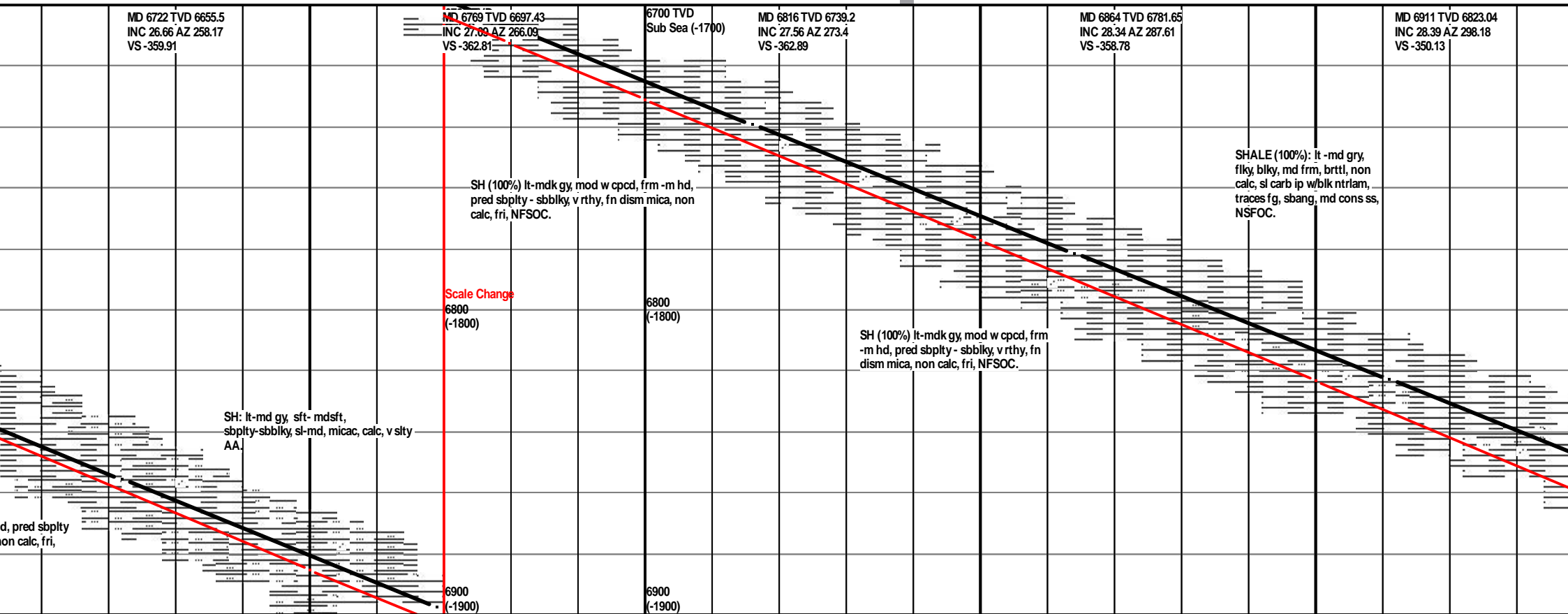
Rounded

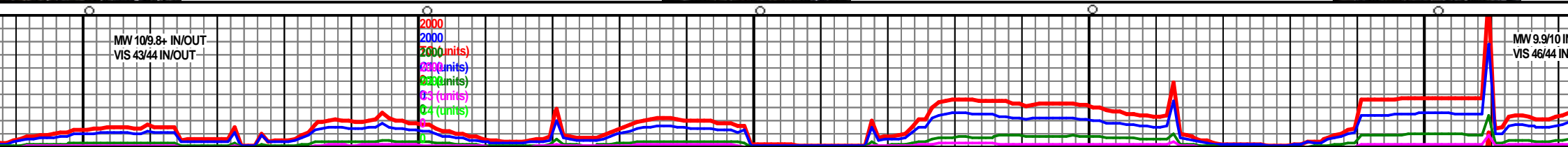
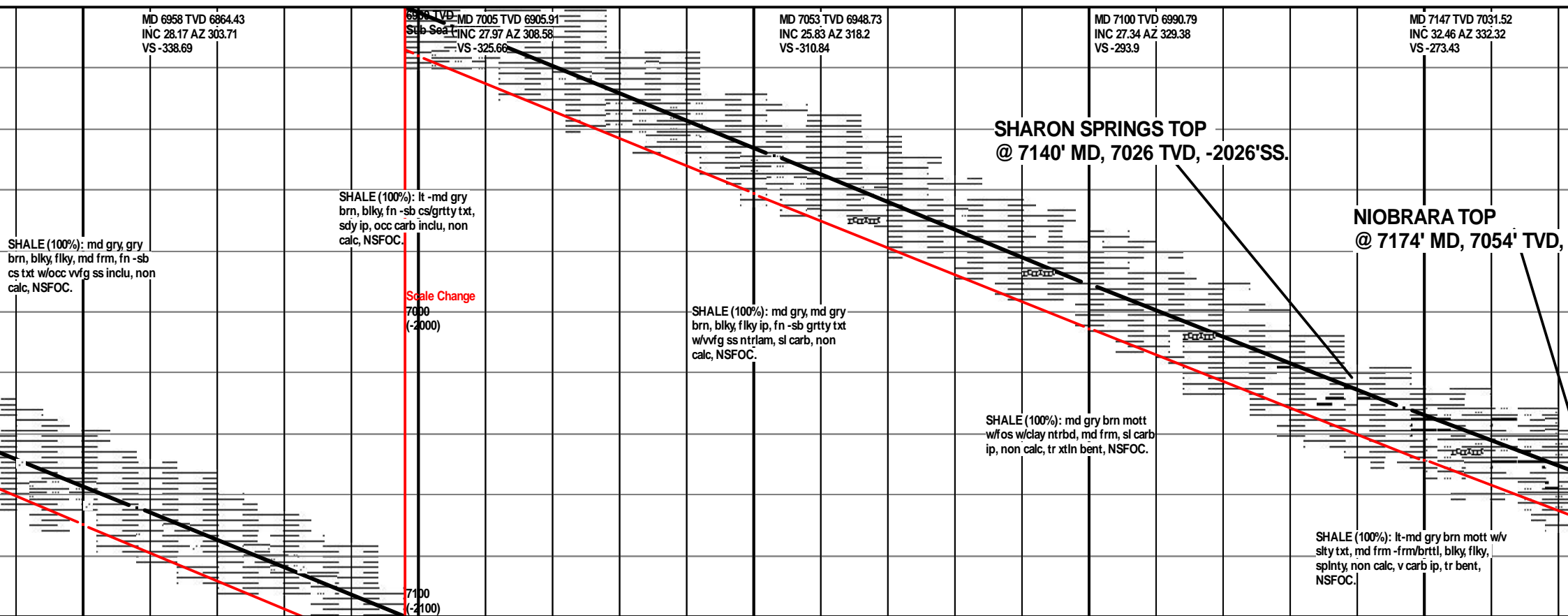
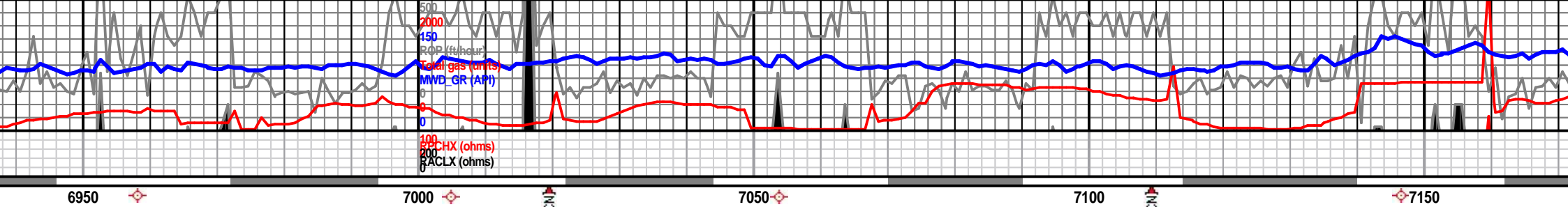
Subrnd
 Subang
 Angular

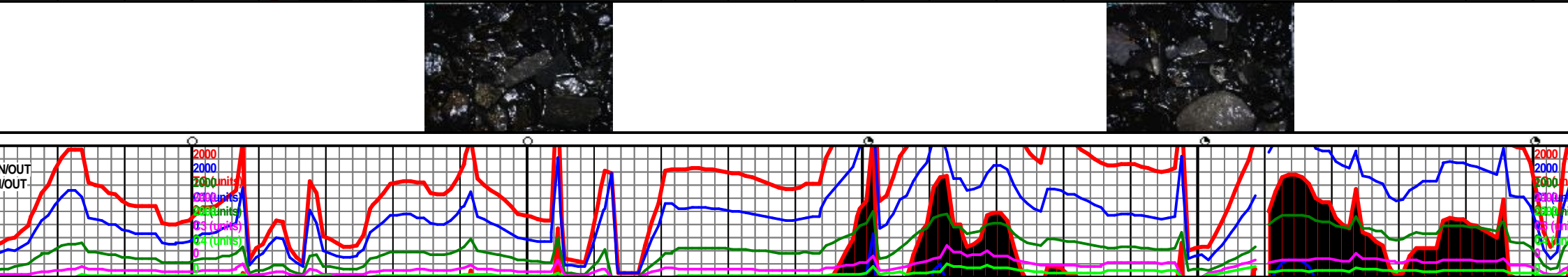
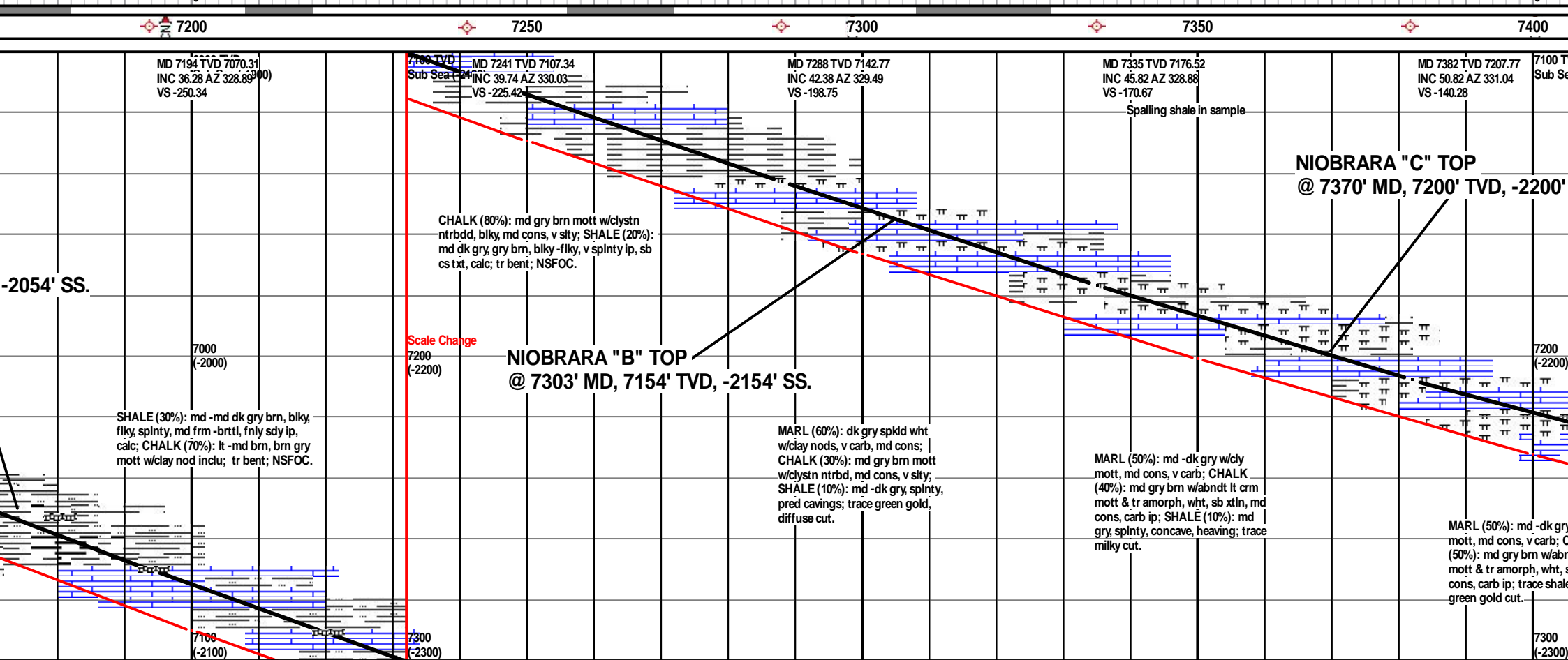
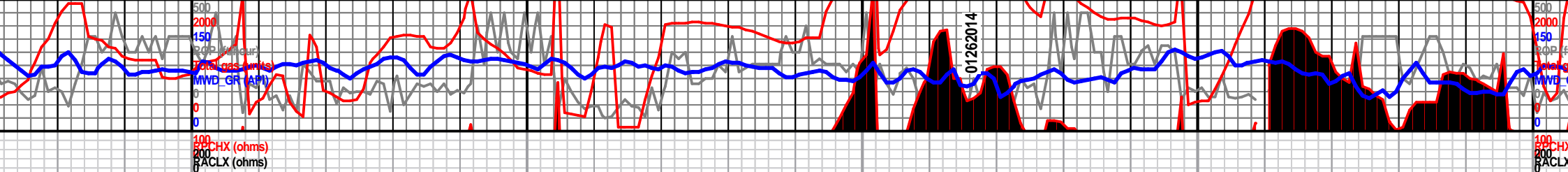
SORTING

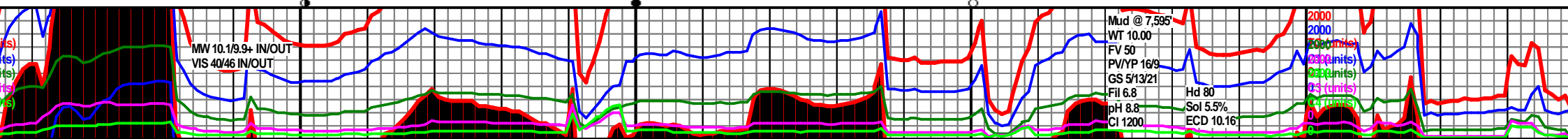
Well
 Moderate
 Poor

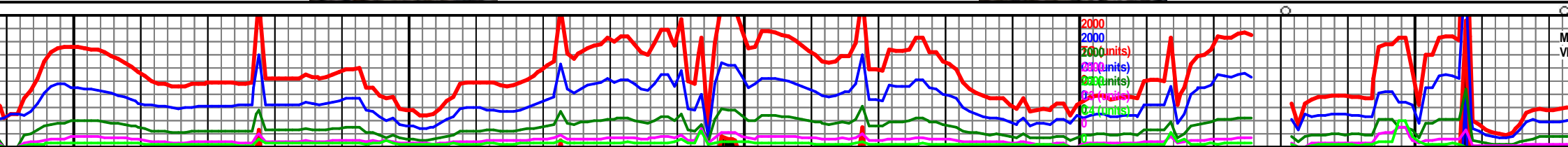
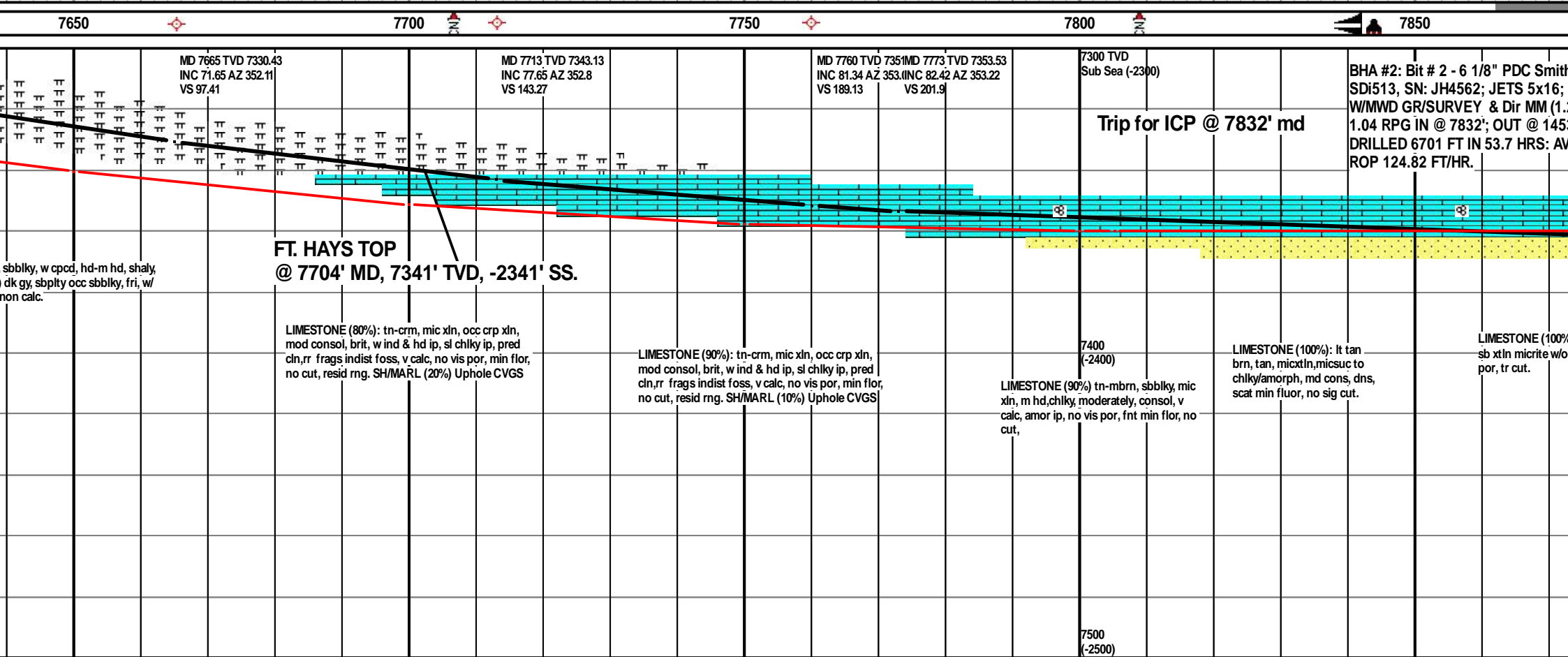
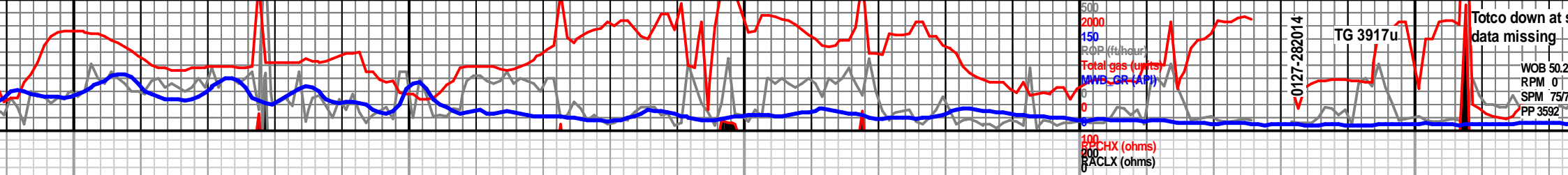


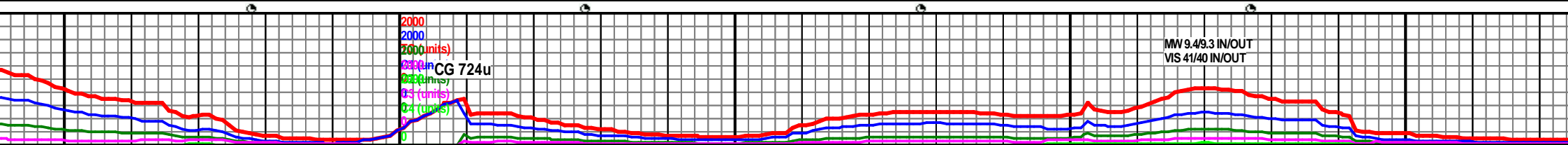
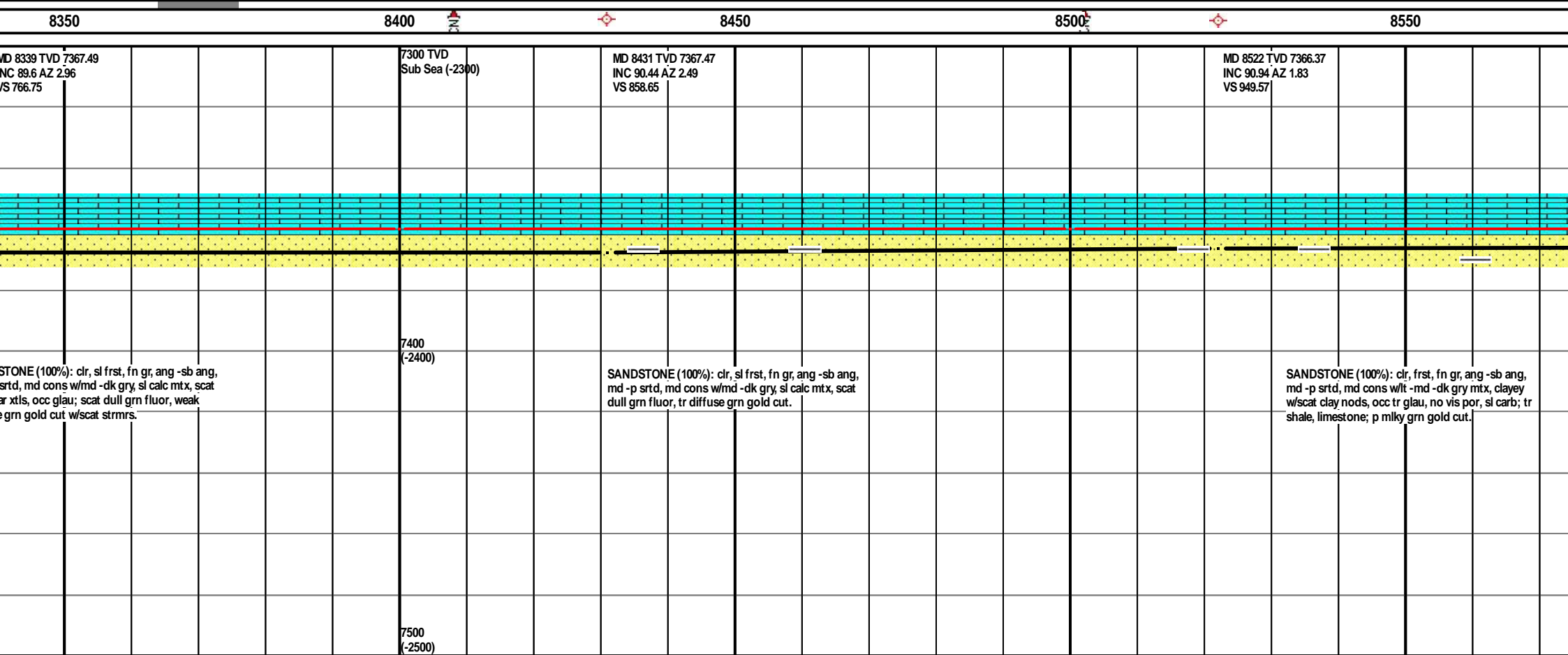
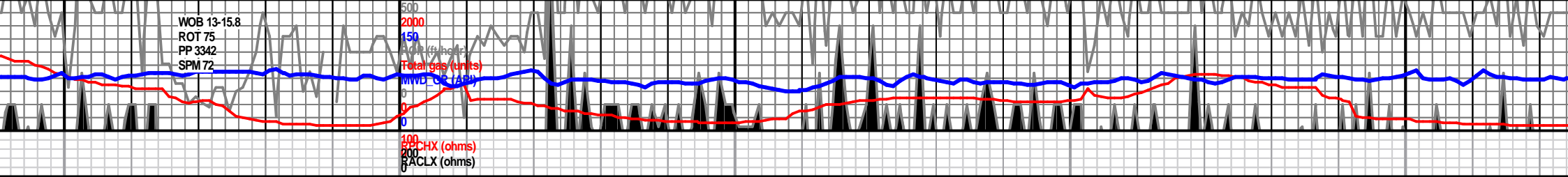


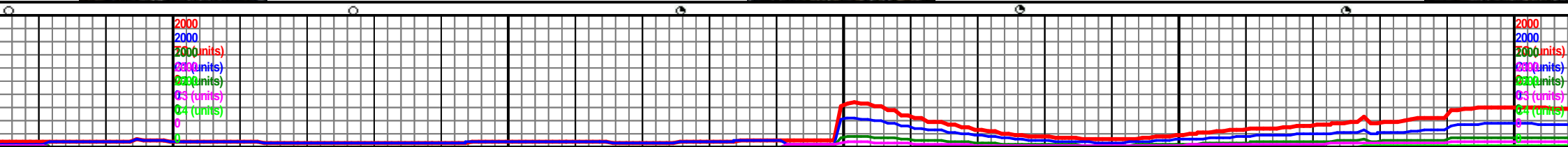
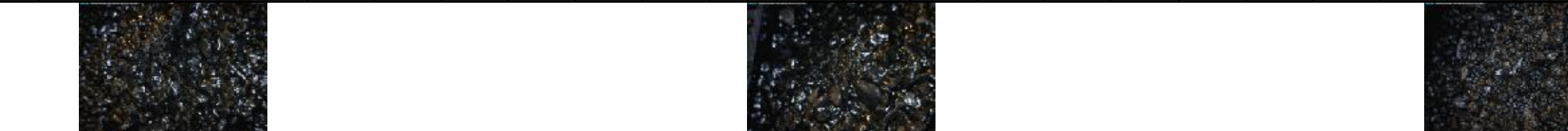
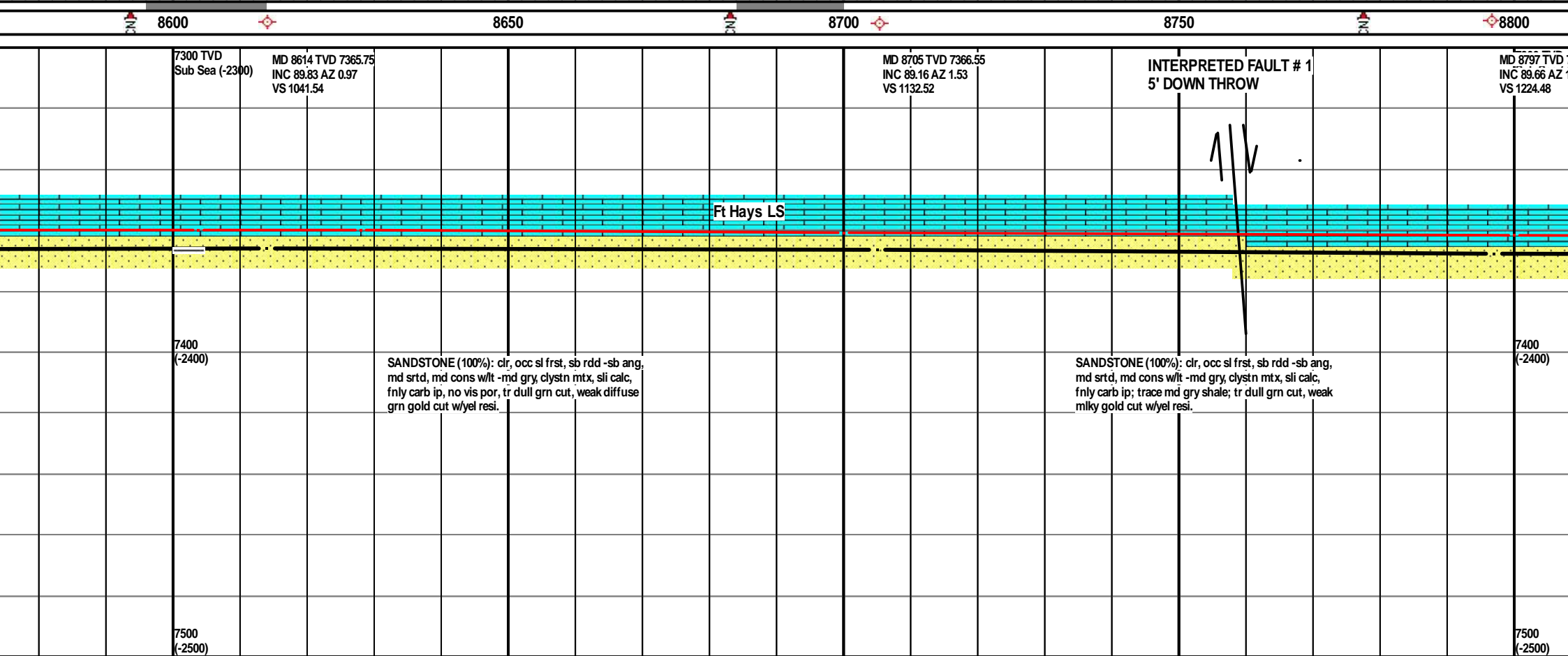
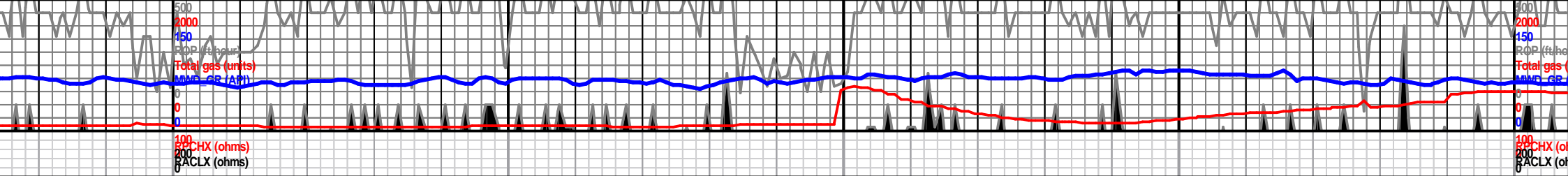


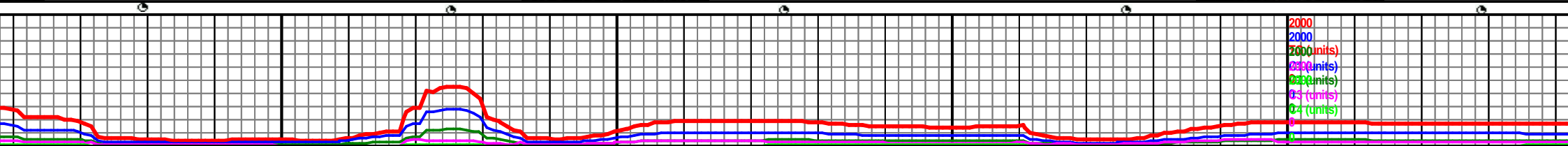
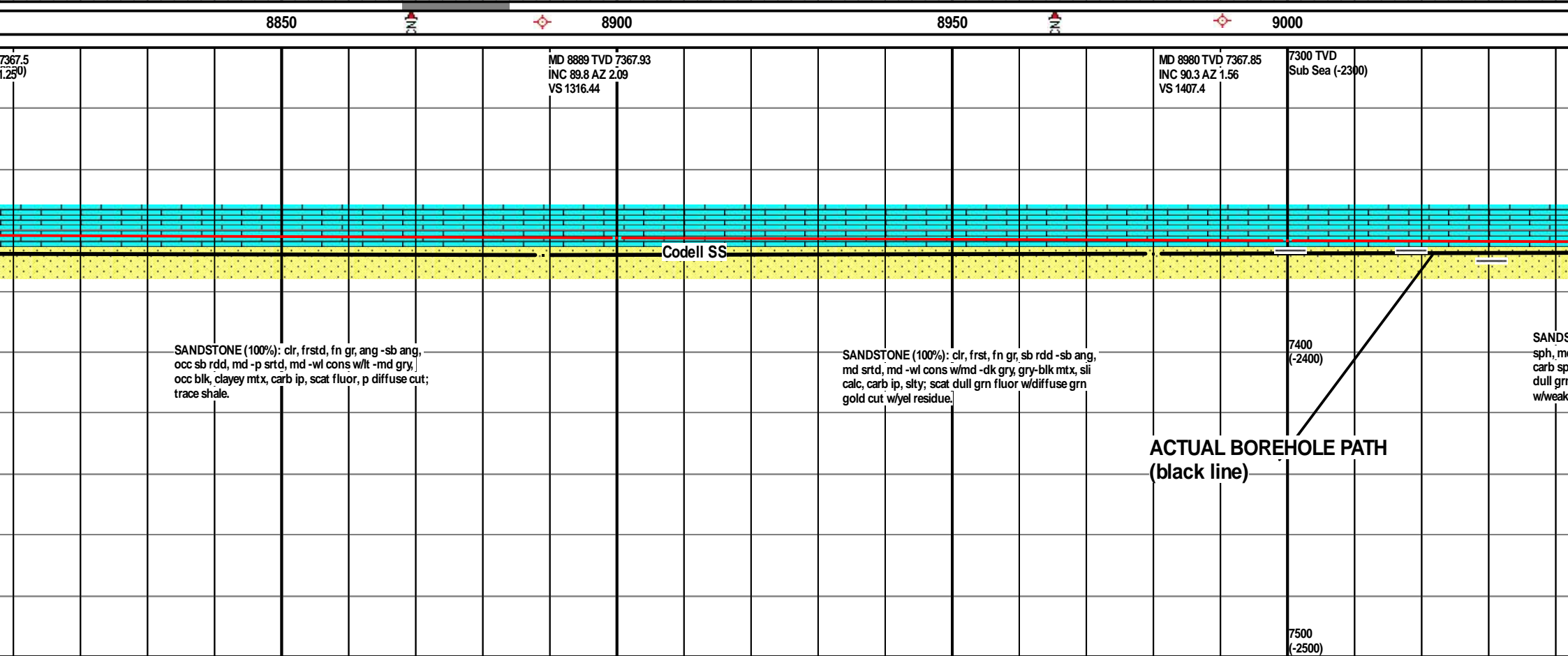
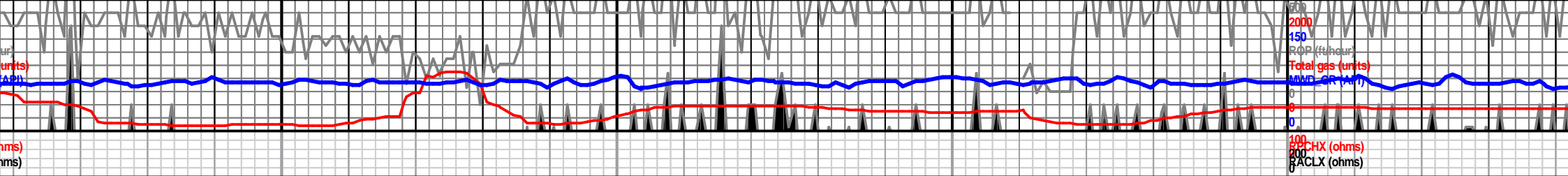


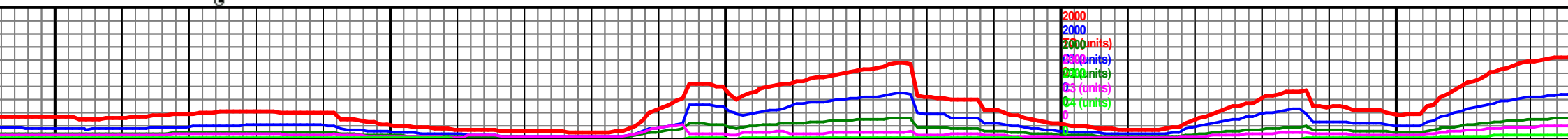
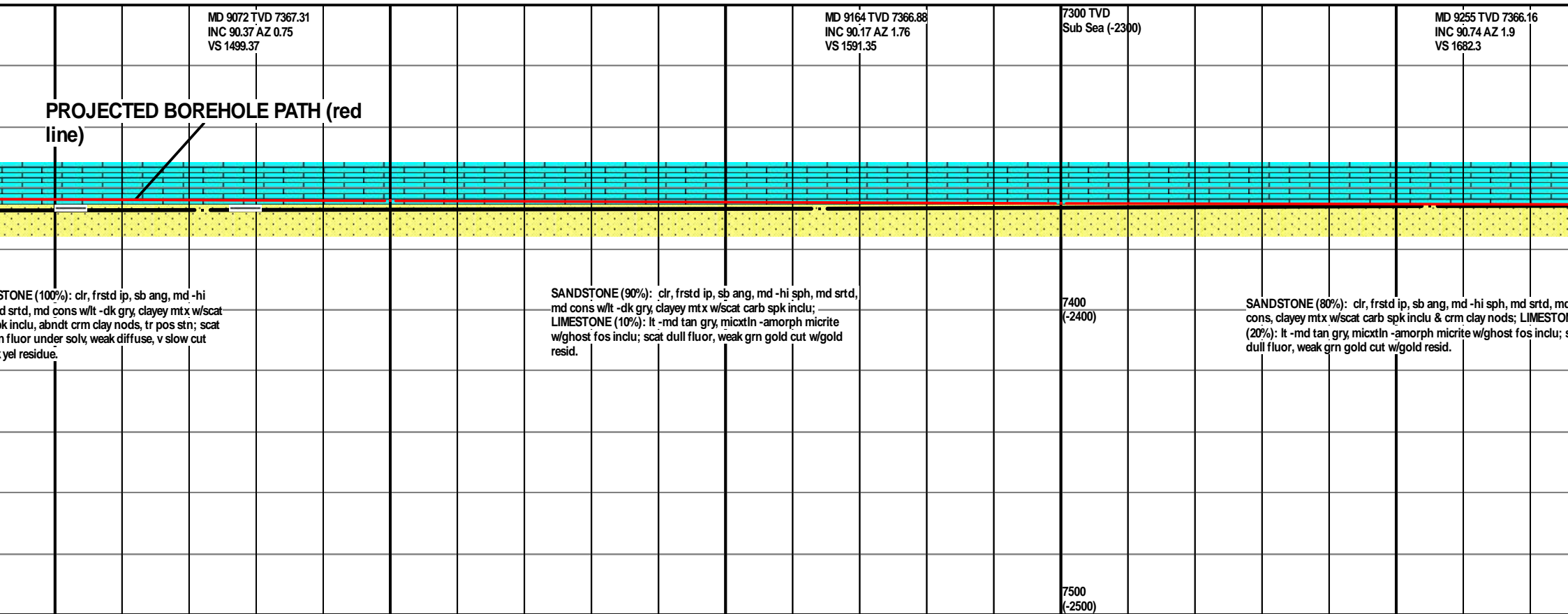
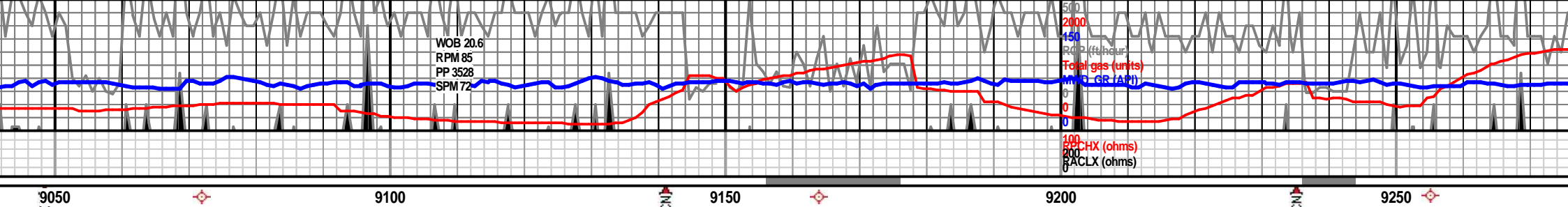


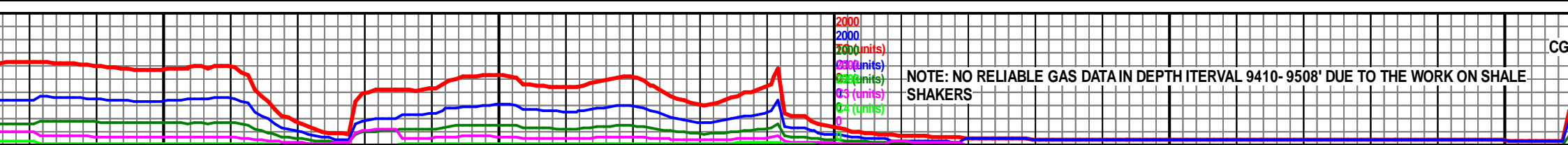
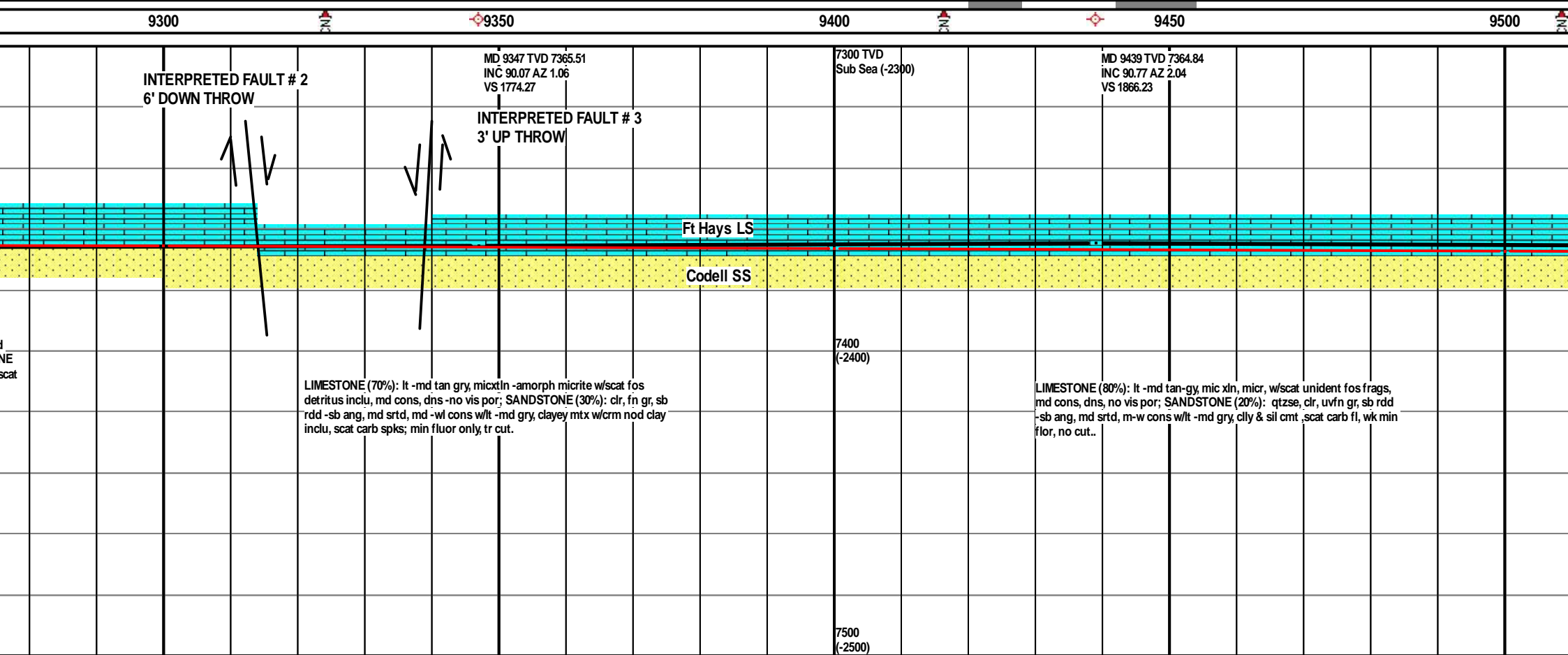
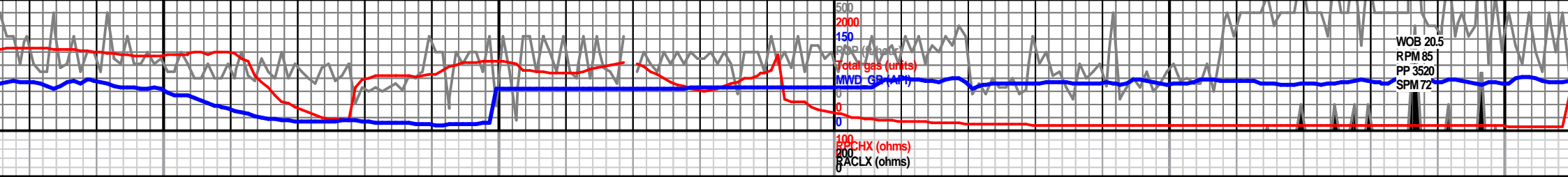


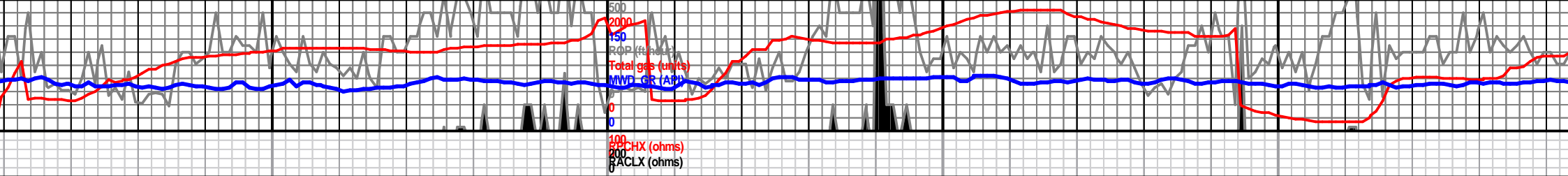




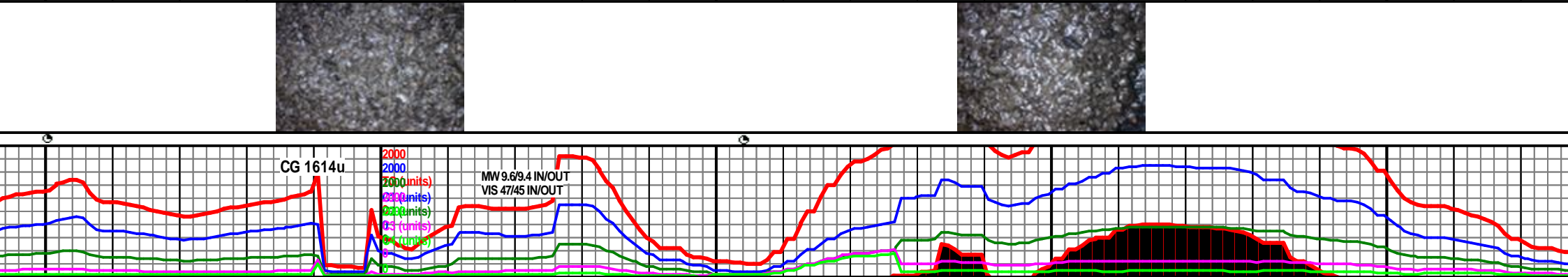
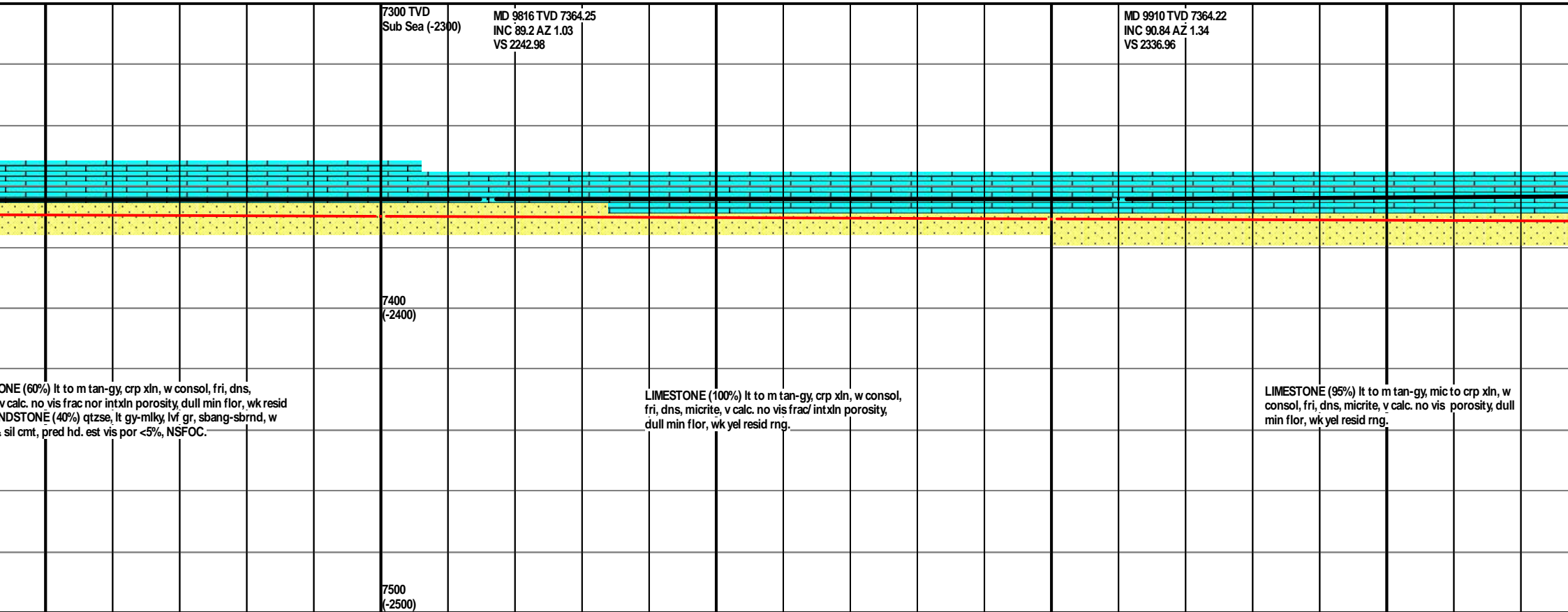


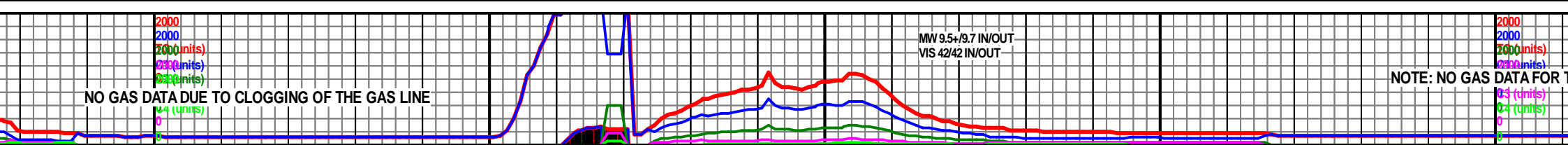
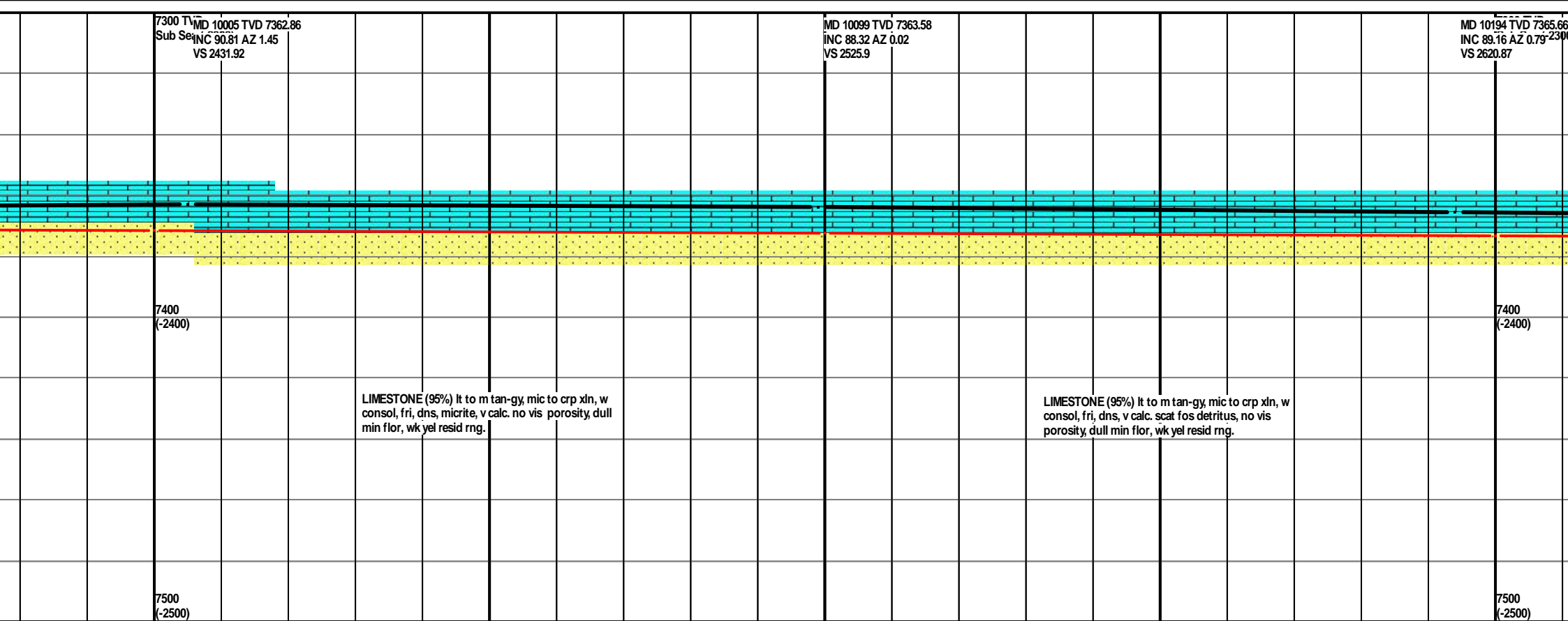
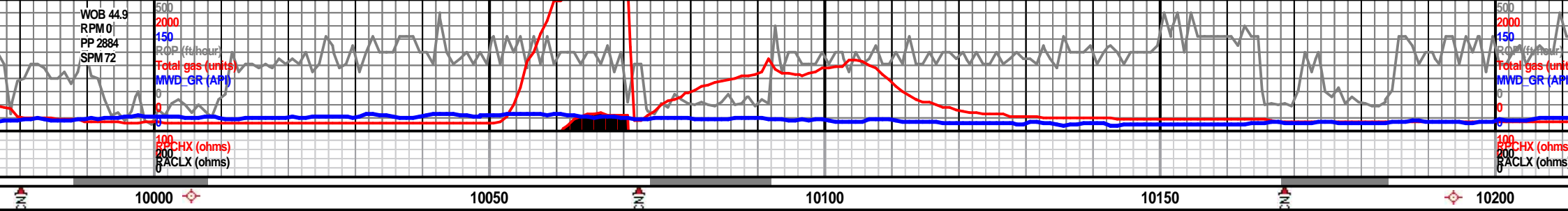


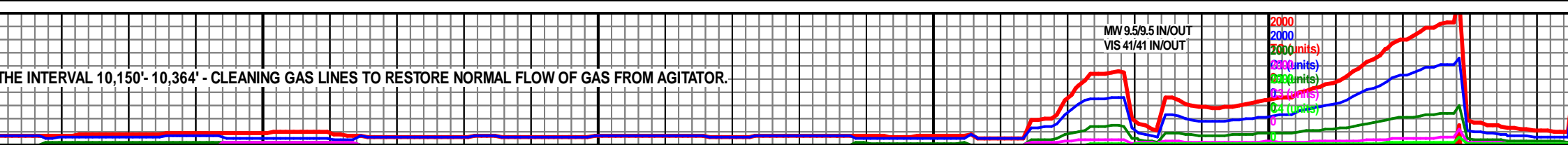
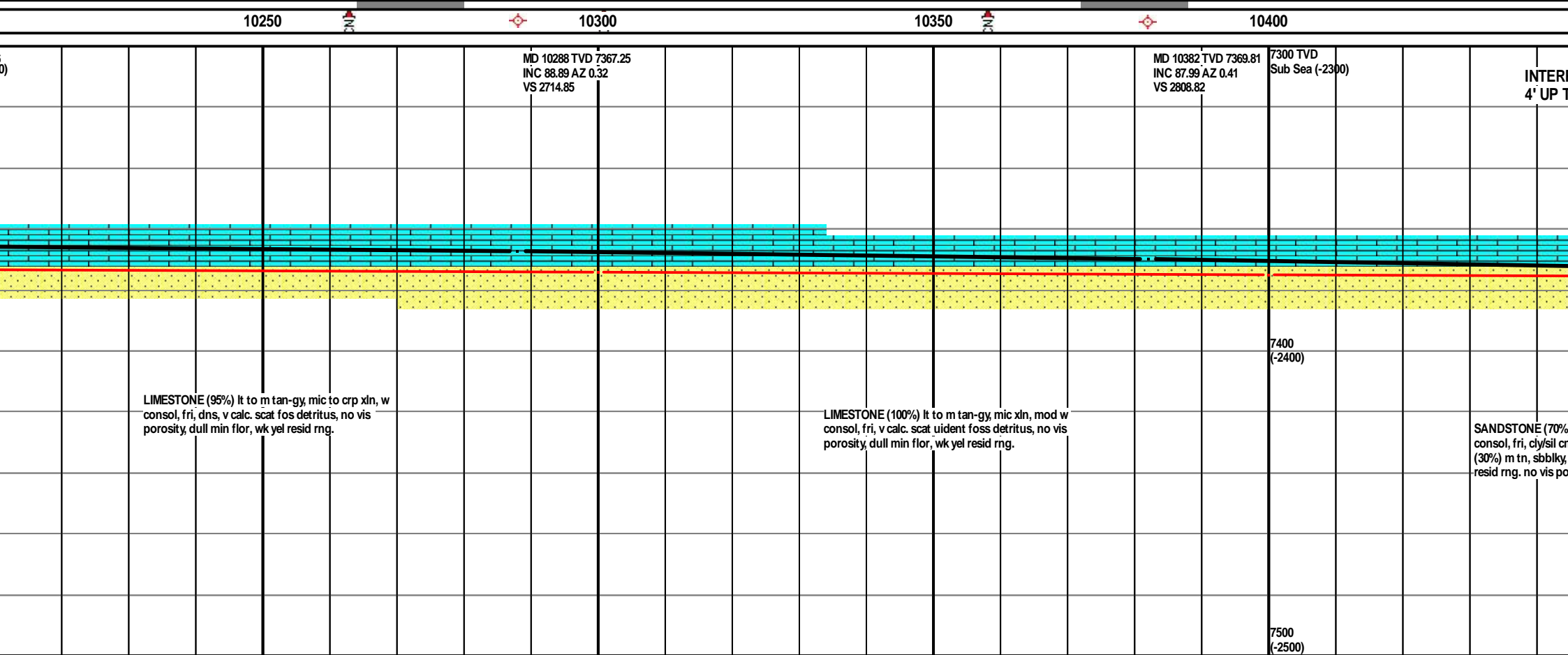
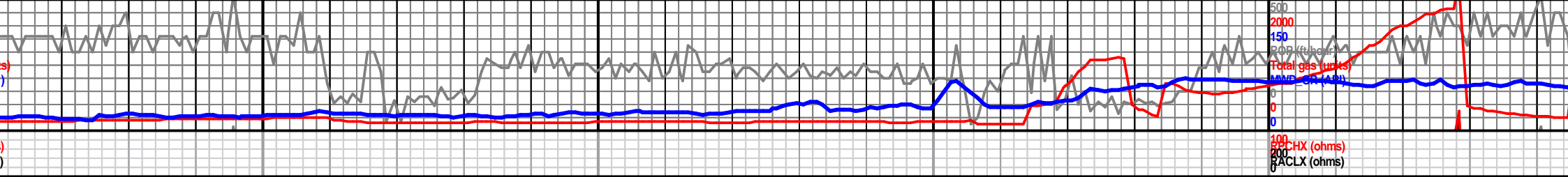


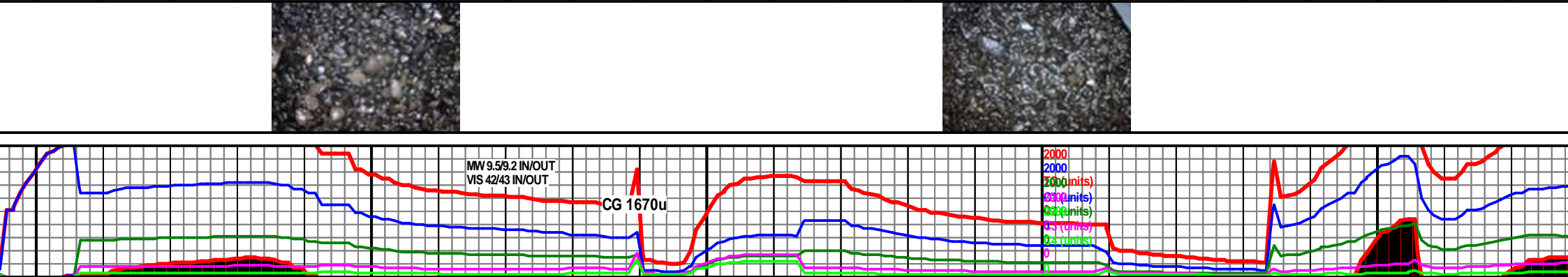
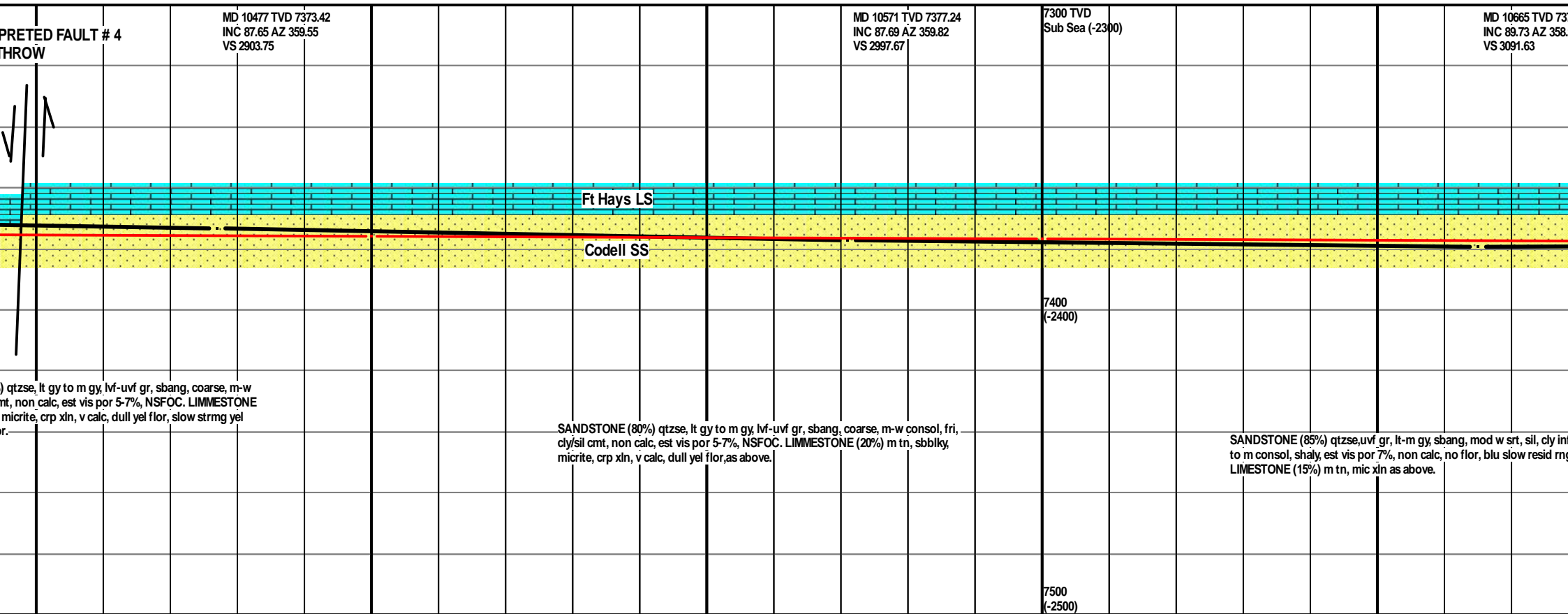


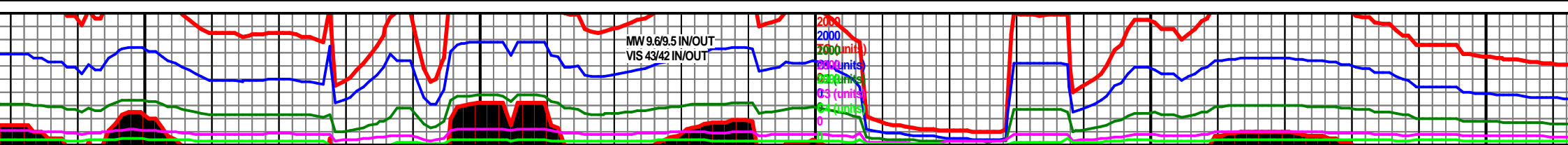
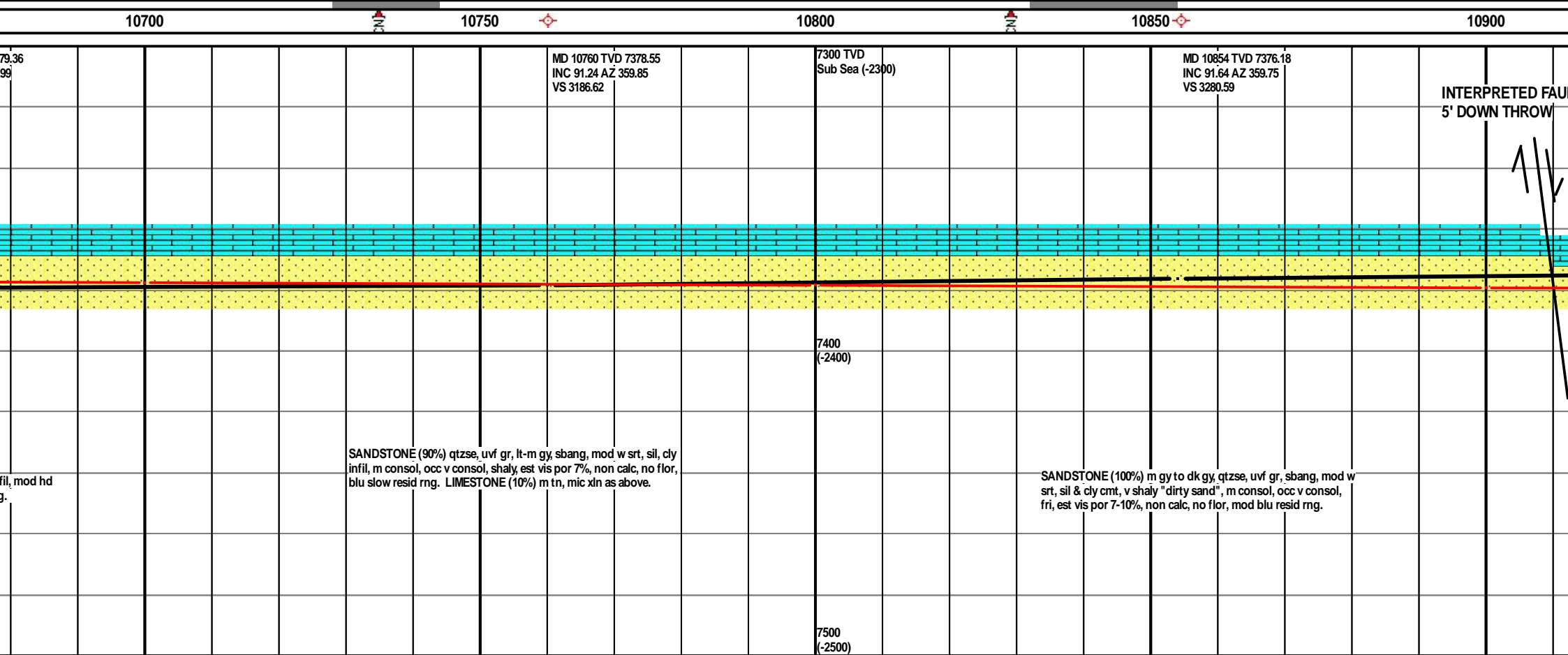
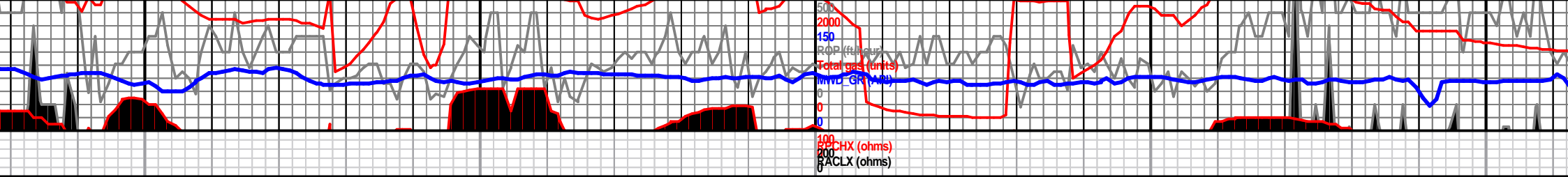
MD 9533 TVD 7365.39 INC 88.56 AZ 1.65 VS 1960.17								7300 TVD Sub Sea (-2300)				MD 9627 TVD 7366 INC 90.7 AZ 2.65 VS 2054.1												MD 9722 TVD 7364.5 INC 91.11 AZ 1.76 VS 2149.01							

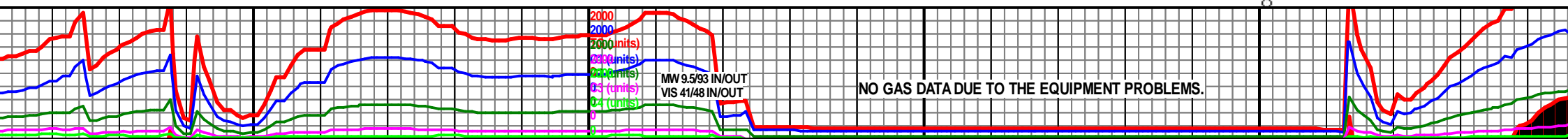
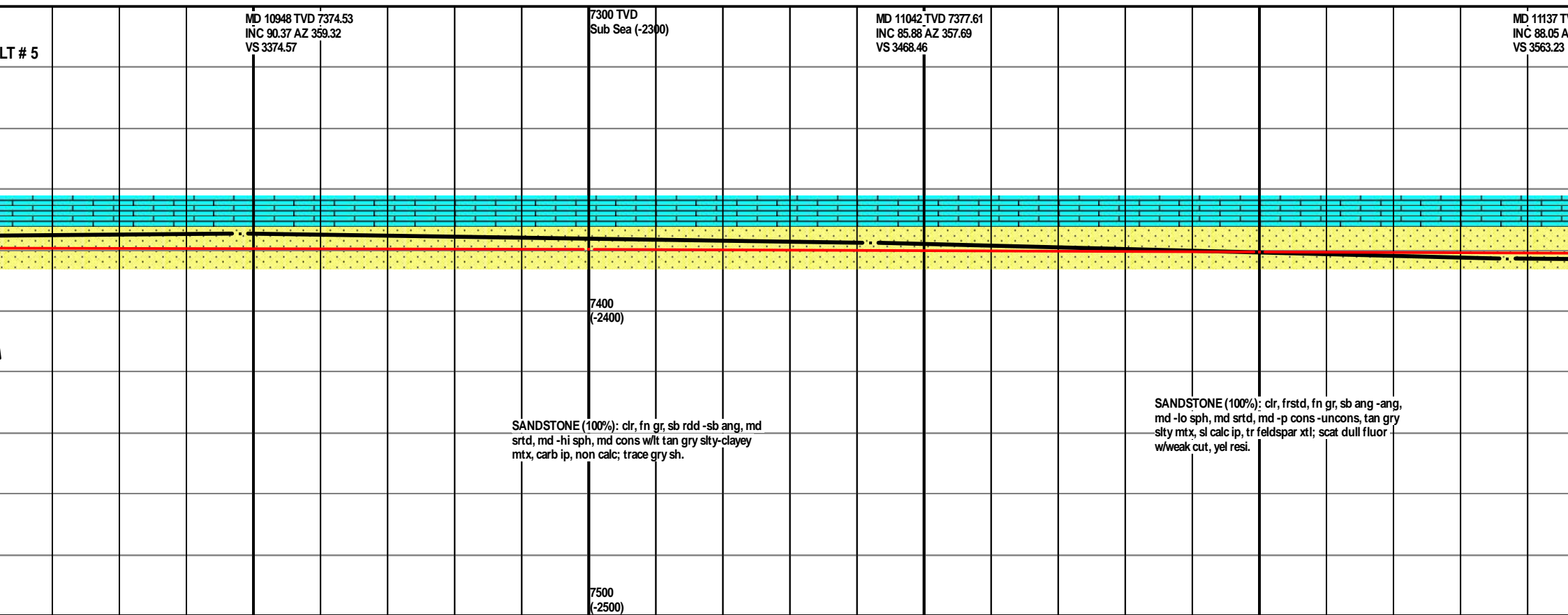
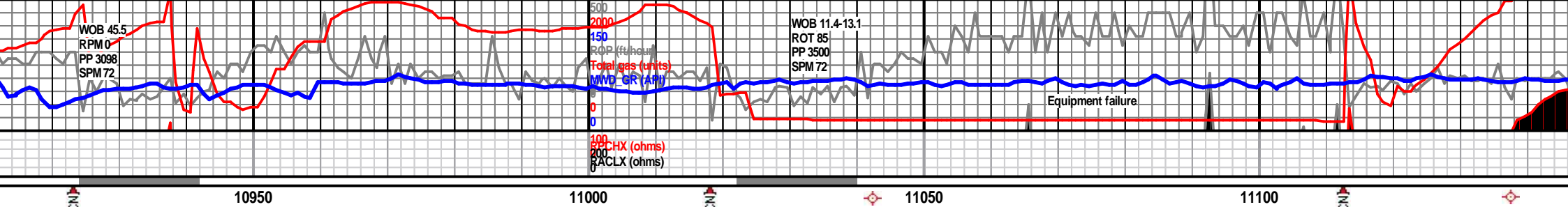


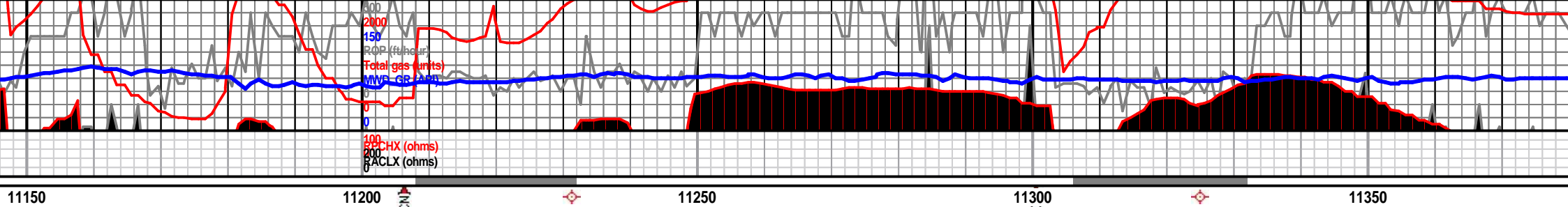












VD 7382.63
Z 357.18

7300 TVD
Sub Sea (-2300)

MD 11231 TVD 7384.58
INC 89.56 AZ 356.81
VS 3657.07

MD 11325 TVD 7384.75
INC 90.23 AZ 358.65
VS 3751

PROJECTED BOREHOLE PATH (red
line)

Ft Hays LS
Codell SS

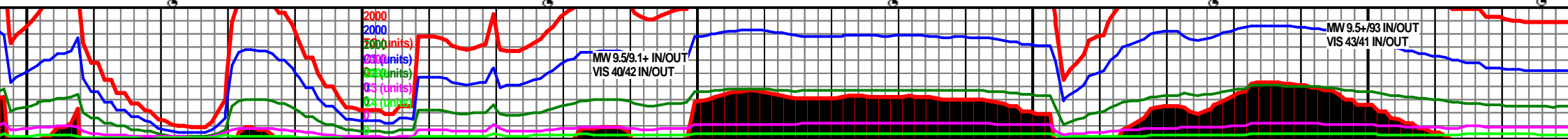
7400
(-2400)

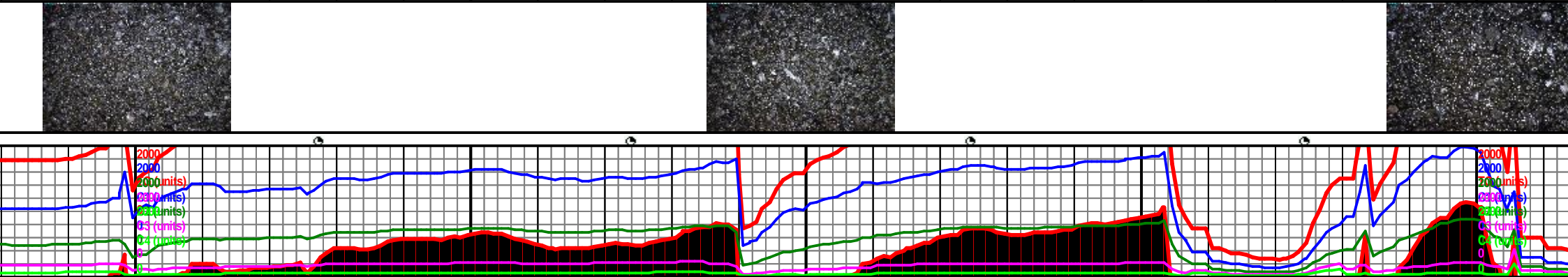
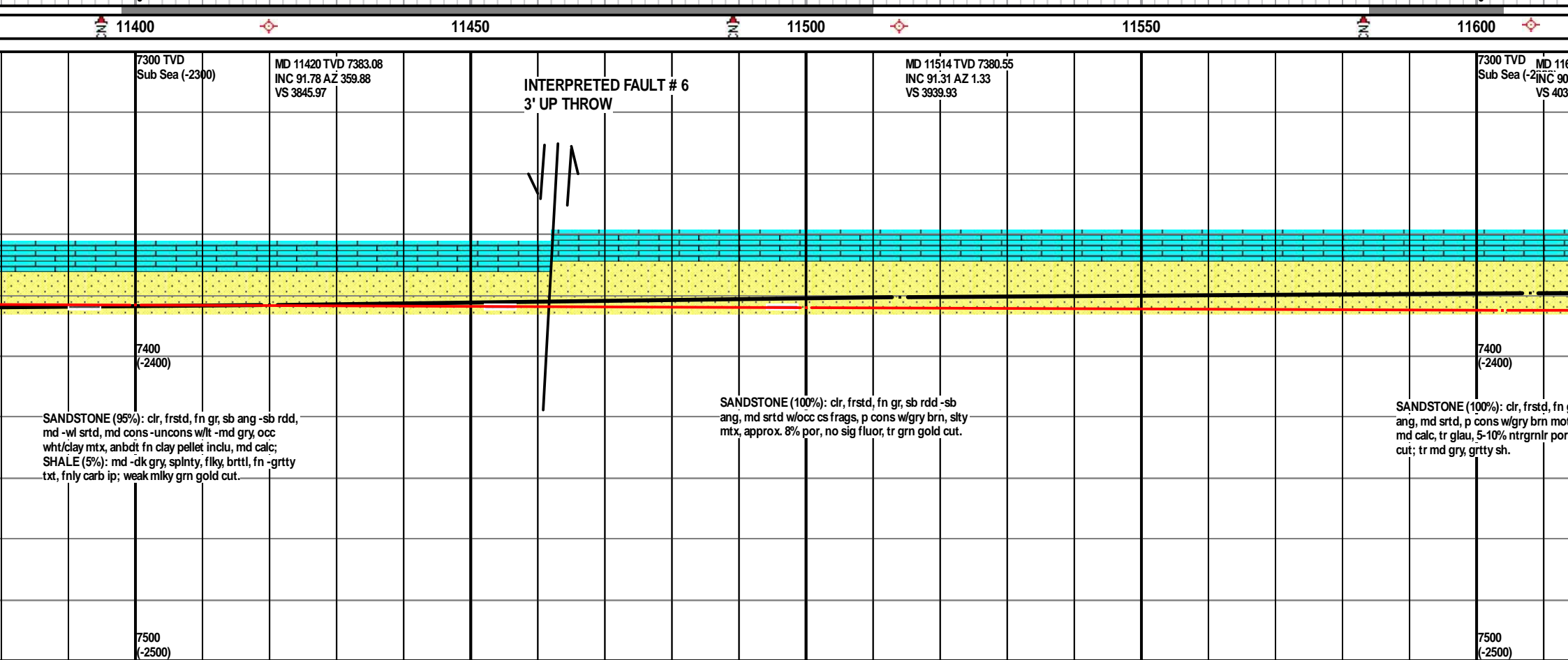
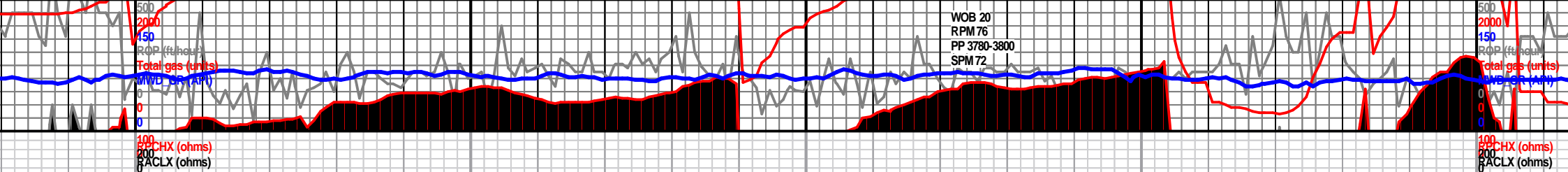
ACTUAL BOREHOLE PATH
(black line)

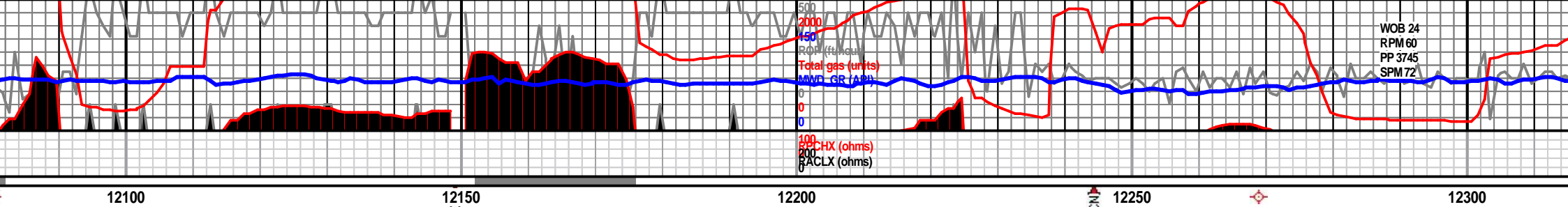
SANDSTONE (95%): clr, frstd, sb ang, md -wl srtd,
md cons w/md -dk tan gry slty mtx, pos stn, carb ip;
SHALE (5%): md -dk gry, splnty-fily, fn -grtty txt; tr
grn gold cut.

SANDSTONE (95%): clr, frstd, sb ang, md -wl srtd,
md cons w/md -dk tan gry slty mtx, pos stn, carb ip;
SHALE (5%): md -dk gry, splnty-fily, fn -grtty txt;
weak diffuse grn gold cut.

7500
(-2500)







MD 12080 TVD 7376.77
INC 91.21 AZ 1.85
VS 4505.65

PATH

Ft Hays LS

Codell SS

7300 TVD
Sub Sea (-2300)

MD 12269 TVD 7376.12
INC 87.85 AZ 359.7
VS 4694.53

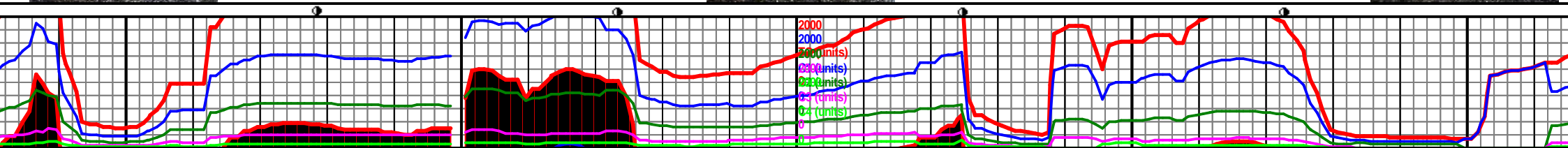
SANDSTONE (95%): clr, frstd, fn gr, sb rdd, sb ang
-ang, md -hi sph, md -p srted, pred uncons w/sme lt
brn cmt; LIMESTONE (5%): wht, lt tan, amorph
-mxtln, md cons -sft micrite; scat fluor w/strmrs, fair
grn gold diffuse cut.

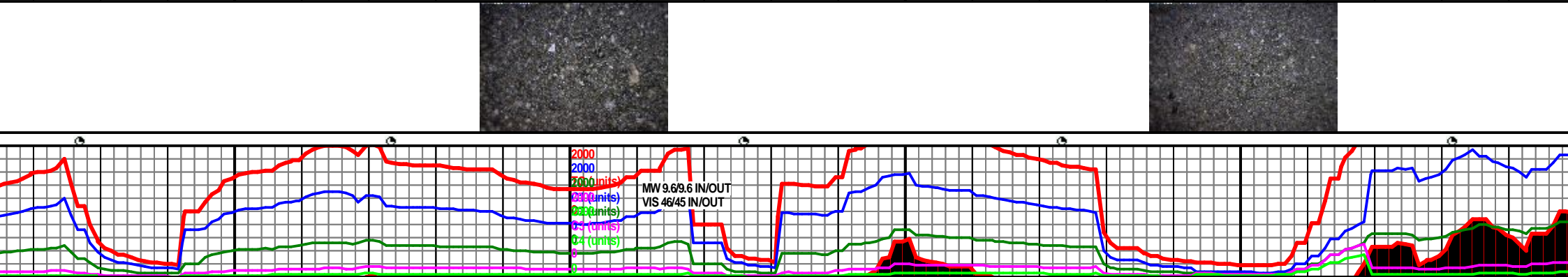
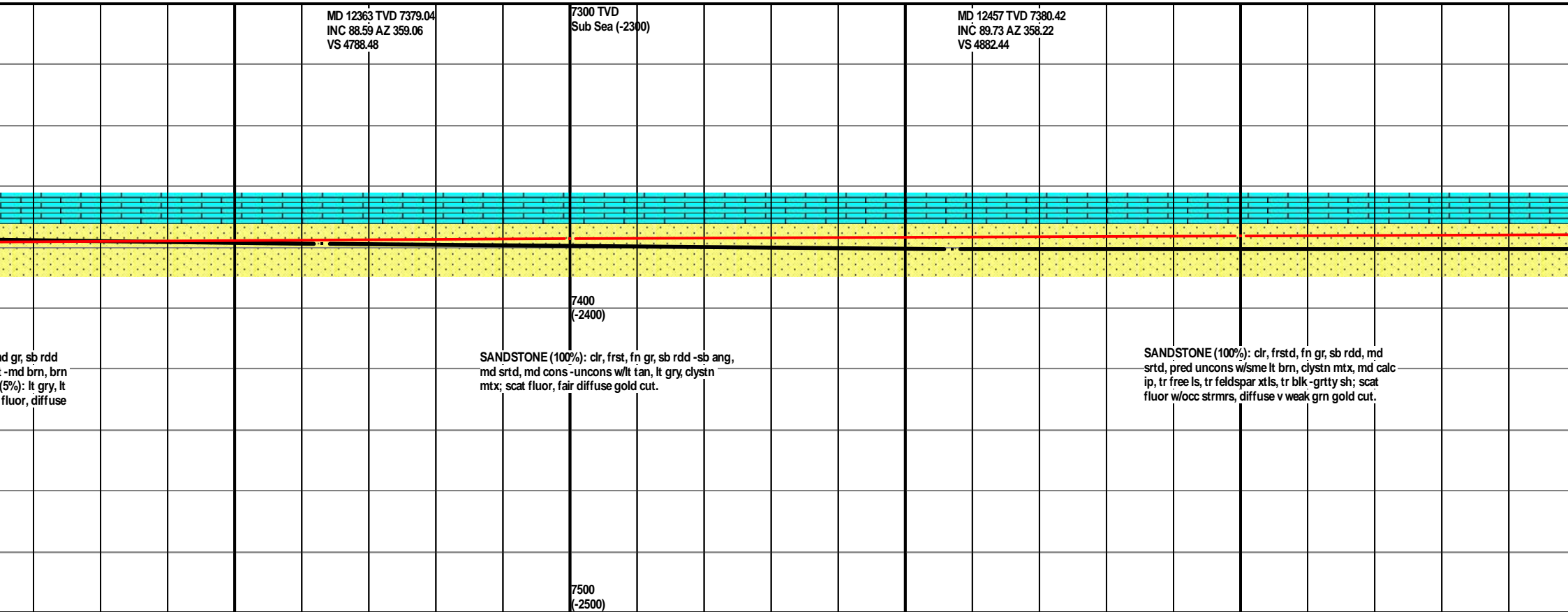
SANDSTONE (90%): clr, frstd, fn gr, sb rdd, sb ang
-ang, md -hi sph, md -p srted, pred uncons w/sme lt
brn cmt; LIMESTONE (10%): wht, lt tan, amorph
-mxtln, md cons -sft micrite; 8-10 small strmrs,
diffuse grn gold cut w/yl resi.

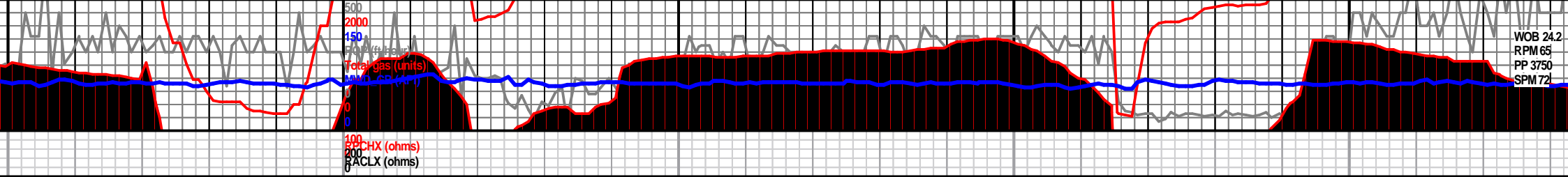
SANDSTONE (95%): clr, frst, fn -sb m
-sb ang, md srted, md cons -uncons, lt
gry, clayey mtx, md calc; LIMESTONE
tan gry, amorph -micxtln micrite; scat
gold cut.

7400
(-2400)

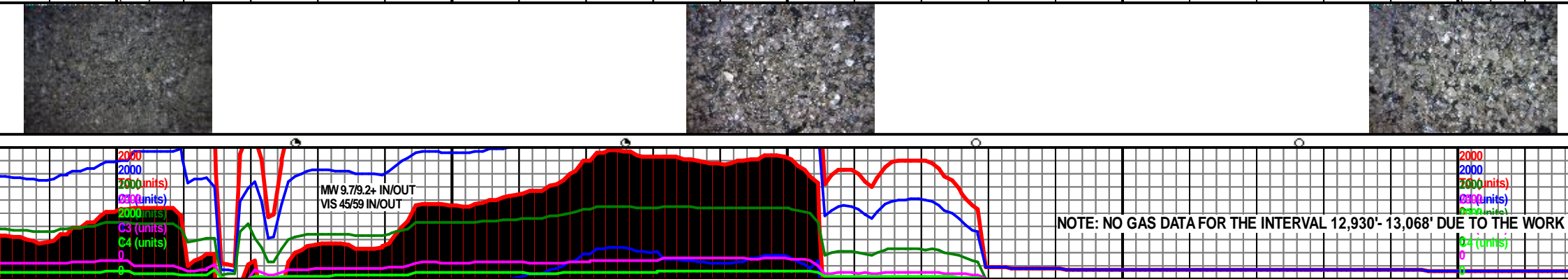
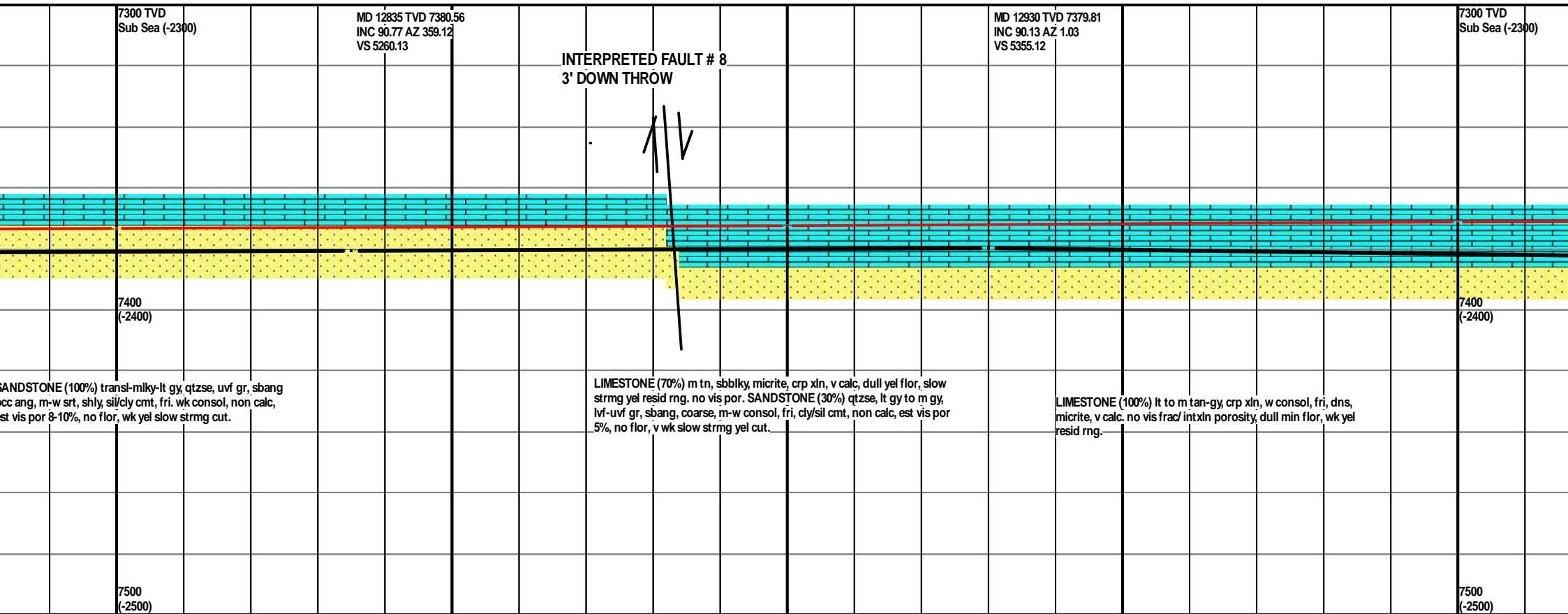
7500
(-2500)

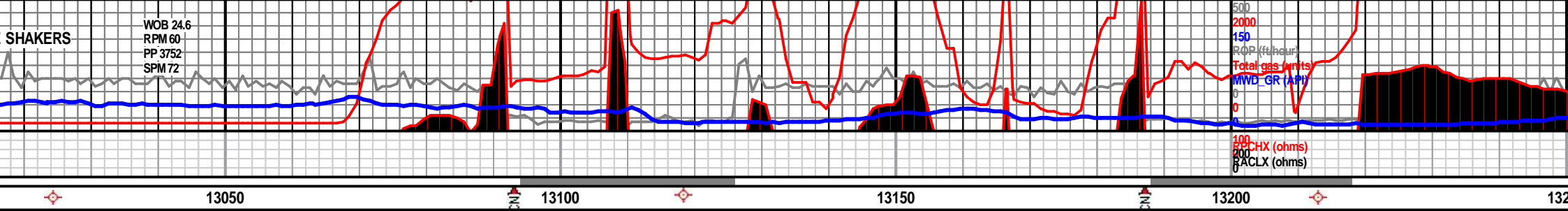




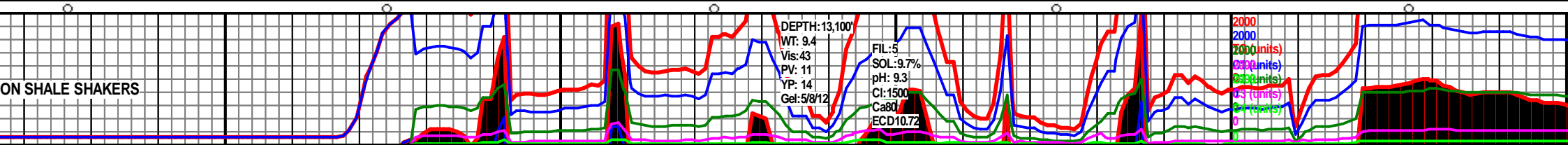


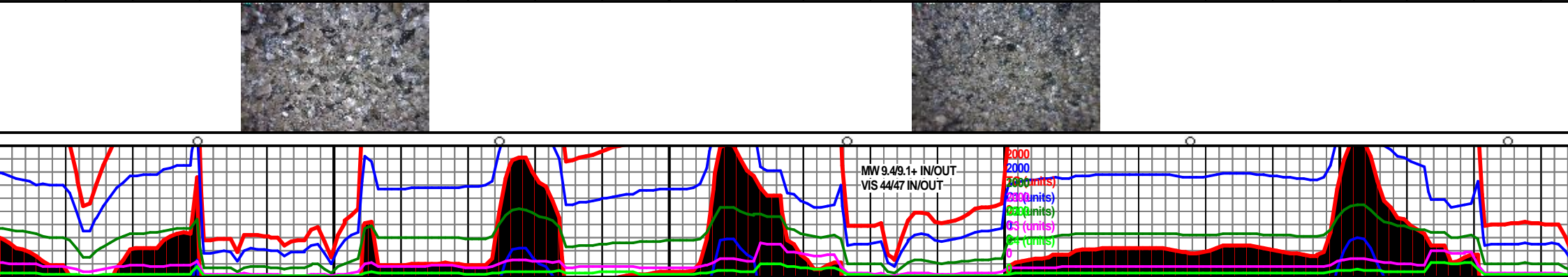
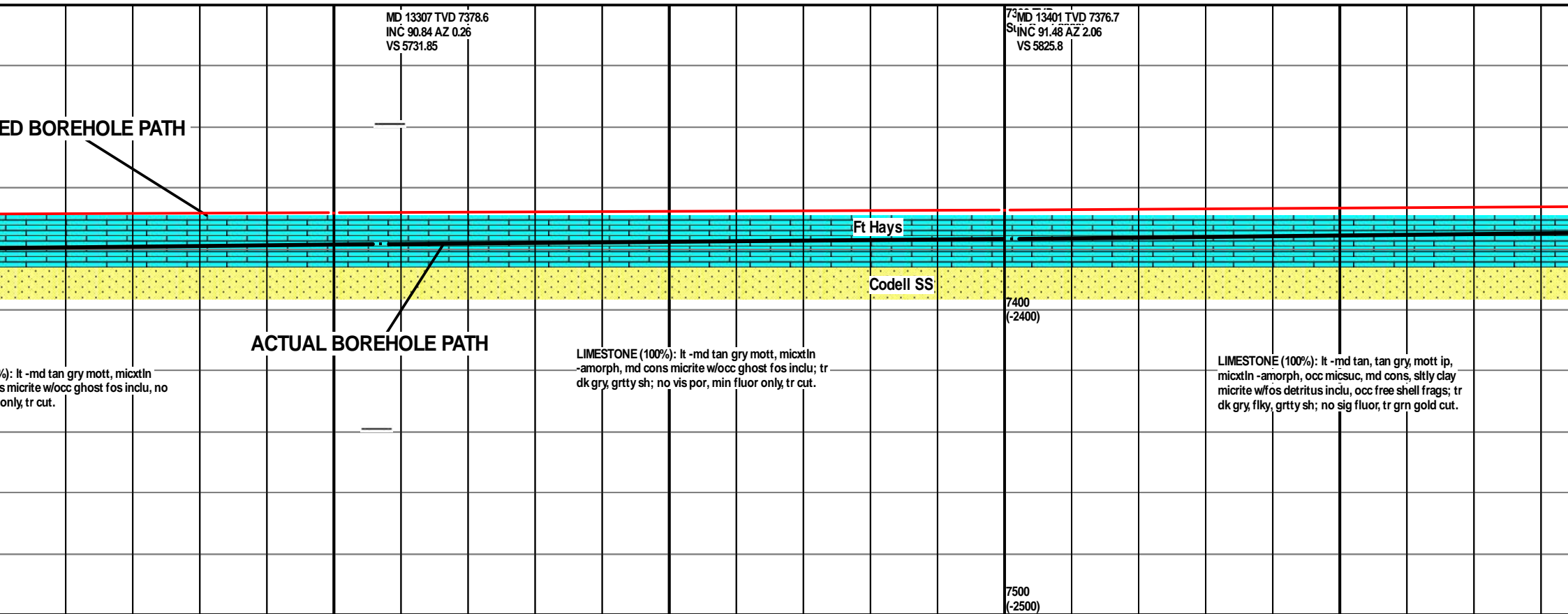
12550										12600										12650										12700										12750									
MD 12552 TVD 7380.42 INC 90.27 AZ 357.14 VS 4977.36										7300 TVD Sub Sea (-2300)										MD 12646 TVD 7380.97 INC 89.06 AZ 357.5 VS 5071.26																				MD 12741 TVD 7381.47 INC 90.34 AZ 357.81 VS 5166.17									

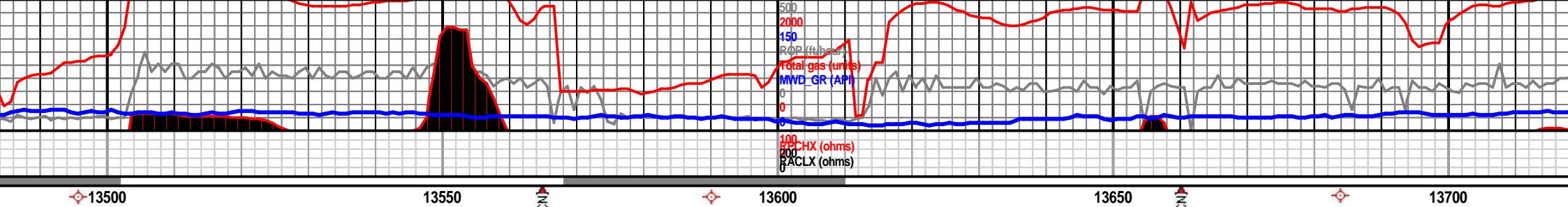




MD 13024 TVD 7382.23 INC 86.91 AZ 356.57 VS 5449.04		MD 13118 TVD 7383.34 INC 91.74 AZ 358.76 VS 5542.92	7300 TVD Sub Sea (-2300)	MD 13213 TVD 7380.58 INC 91.58 AZ 359.65 VS 5637.87	
PROJECT					
LIMESTONE (90%) lt to m tan-gy, crp xln, w consol, fri, dns, micrite, v calc, no vis frac/ intxn porosity, dull min flor, wk yel resid rng. SANDSTONE (10%) qtzse, lt gy to m gy, lv gr, sbang, coarse, m-w consol, fri, cly/sil cmt, as above.		LIMESTONE (90%) lt to m tan-gy, crp xln, m-w consol, fri, frags unident foos, no vis frac/ intxn porosity, dull min flor, wk yel resid rng.	7400 (-2400)	LIMESTONE (100%) -amorph, md con vis por, min fluor	
7500 (-2500)					







MD 13496 TVD 7374.37
INC 91.34 AZ 2.64
VS 5920.69

MD 13590 TVD 7374.07
INC 89.09 AZ 2.38 Sea (-2300)
VS 6014.6

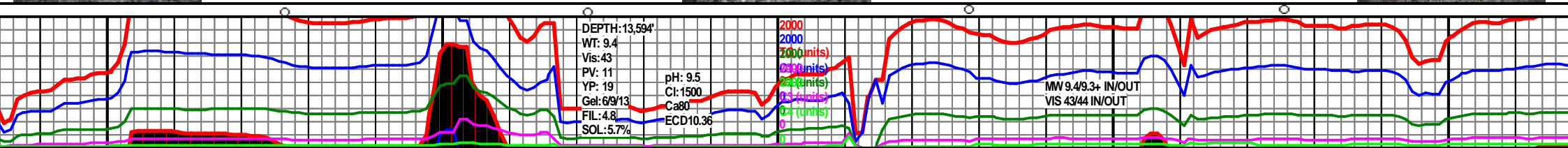
MD 13684 TVD 7375
INC 89.7 AZ 2.31
VS 6108.51

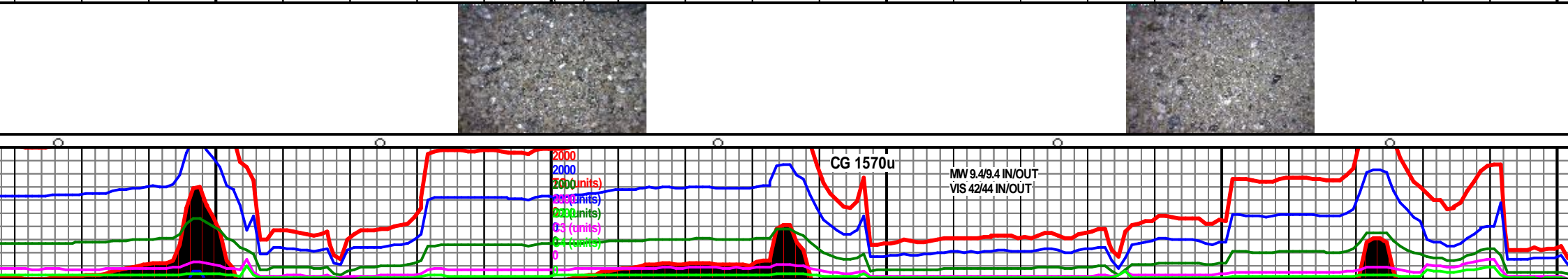
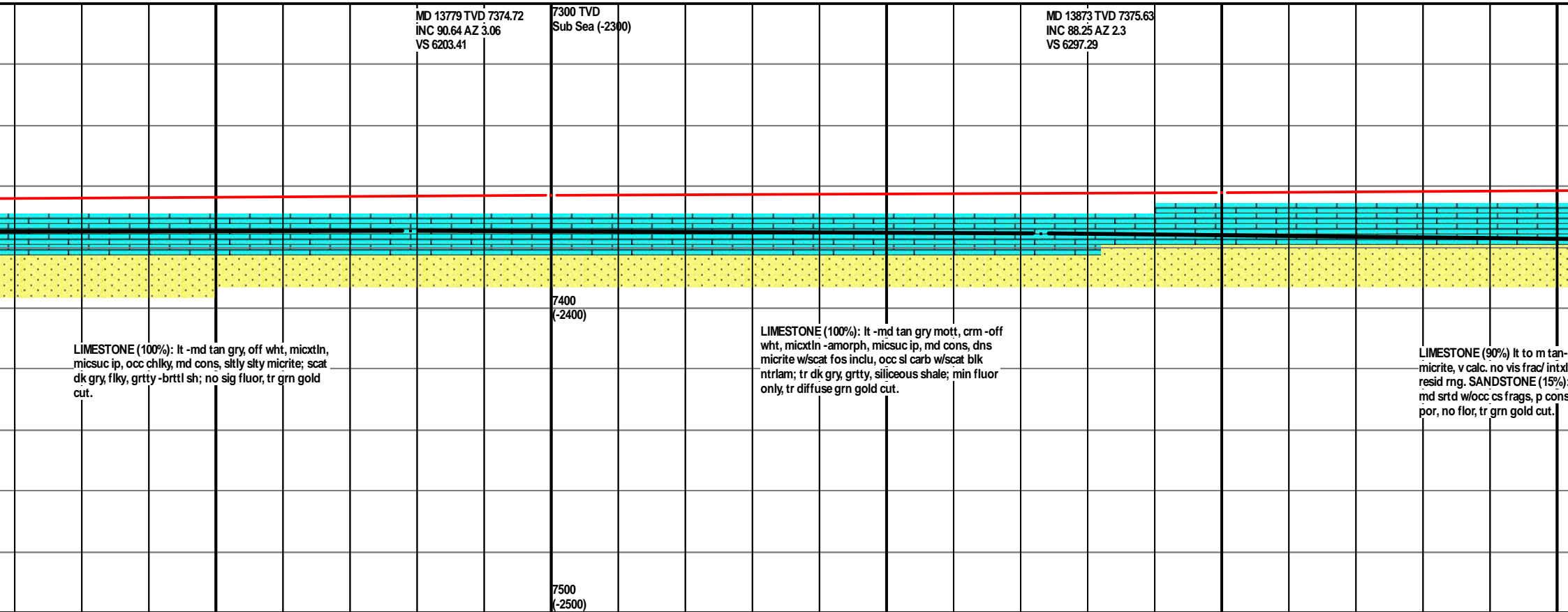
LIMESTONE (100%): lt-md tan gry, mott ip, occ wht, micxtln -amorph, occ chiky, md cons, fossiliferous micrite w/occ calcite inclu (resol); tr dk gry, grtty sh; no sig fluor, tr grn gold cut.

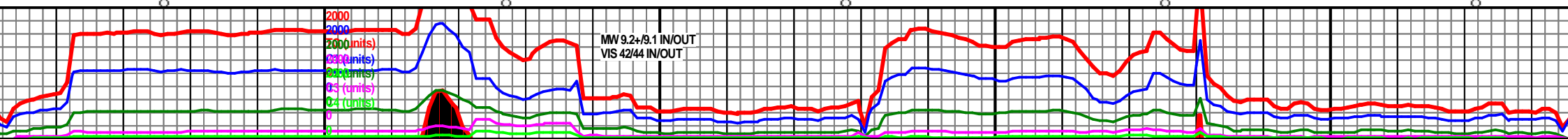
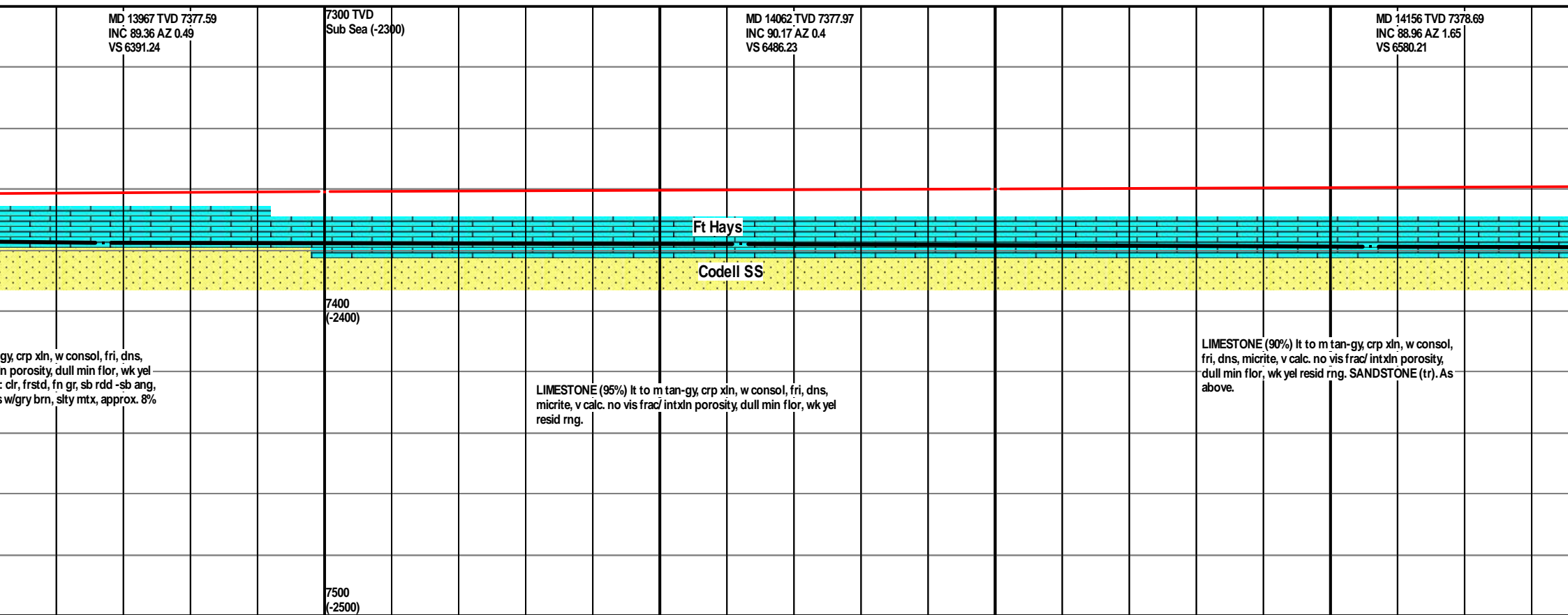
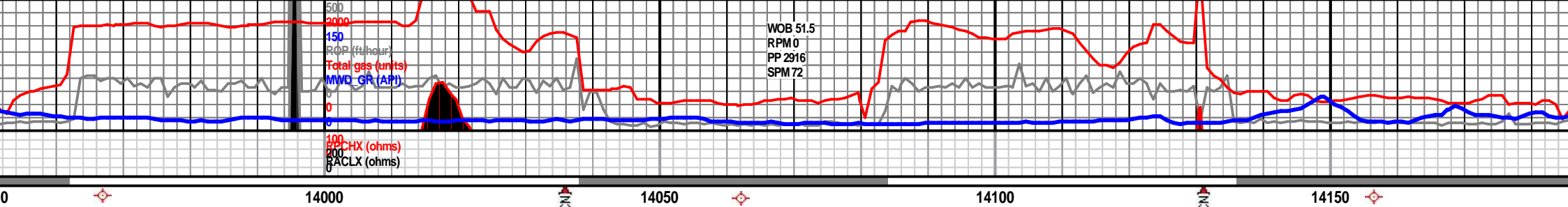
LIMESTONE (100%): lt-md tan gry, off wht, micxtln, micsuc ip, occ chiky, md cons, stly stly micrite w/tr shell frags (inoceramus) & tr arag; scat dk gry, flky, grtty-brttl sh; no sig fluor, tr grn gold cut.

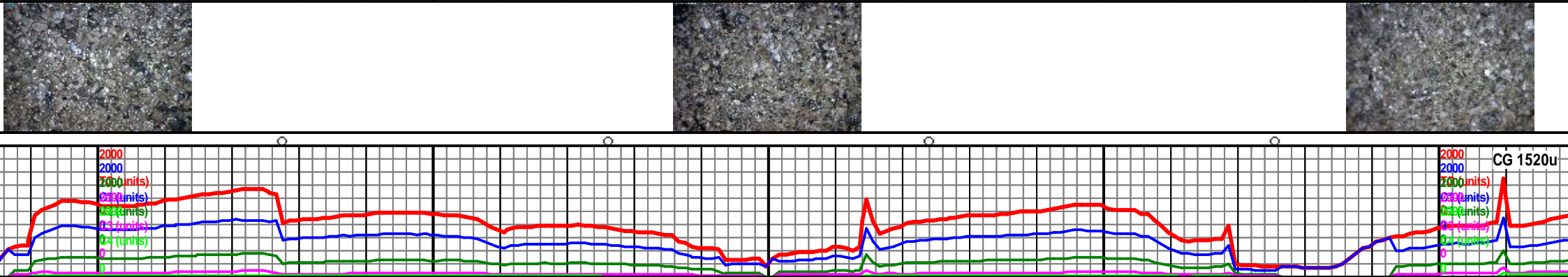
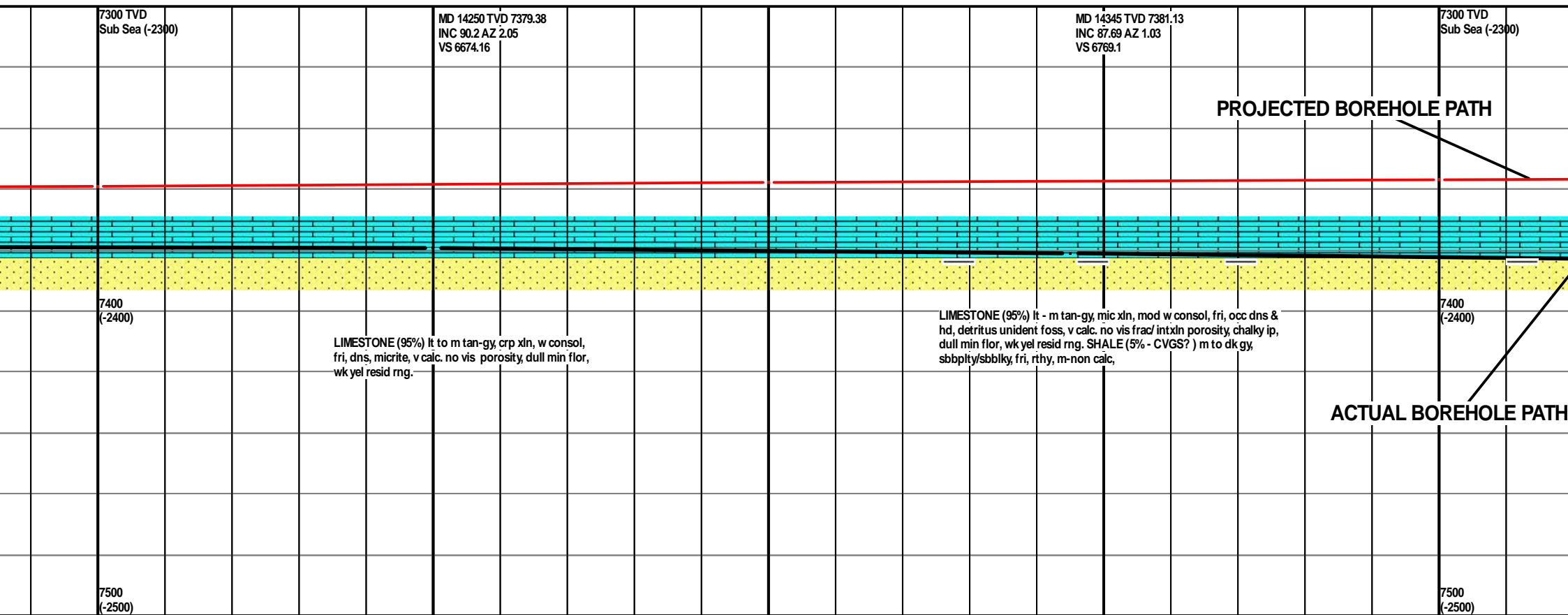
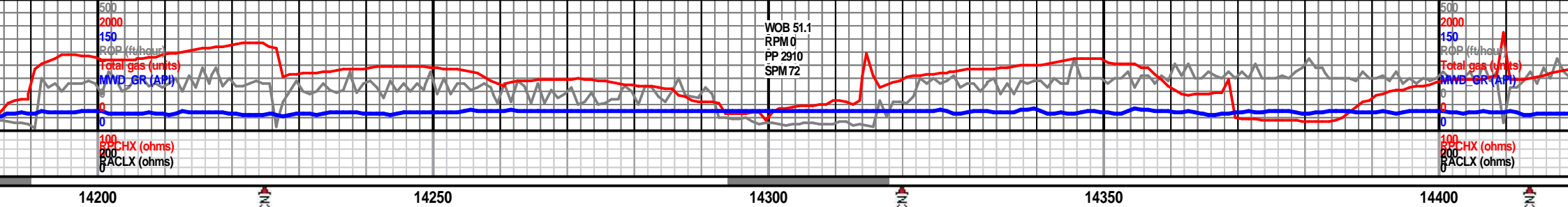
7400
(-2400)

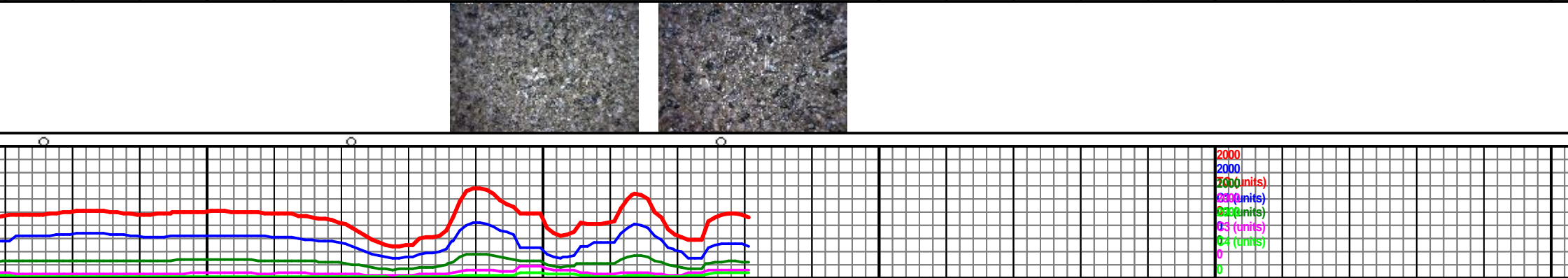
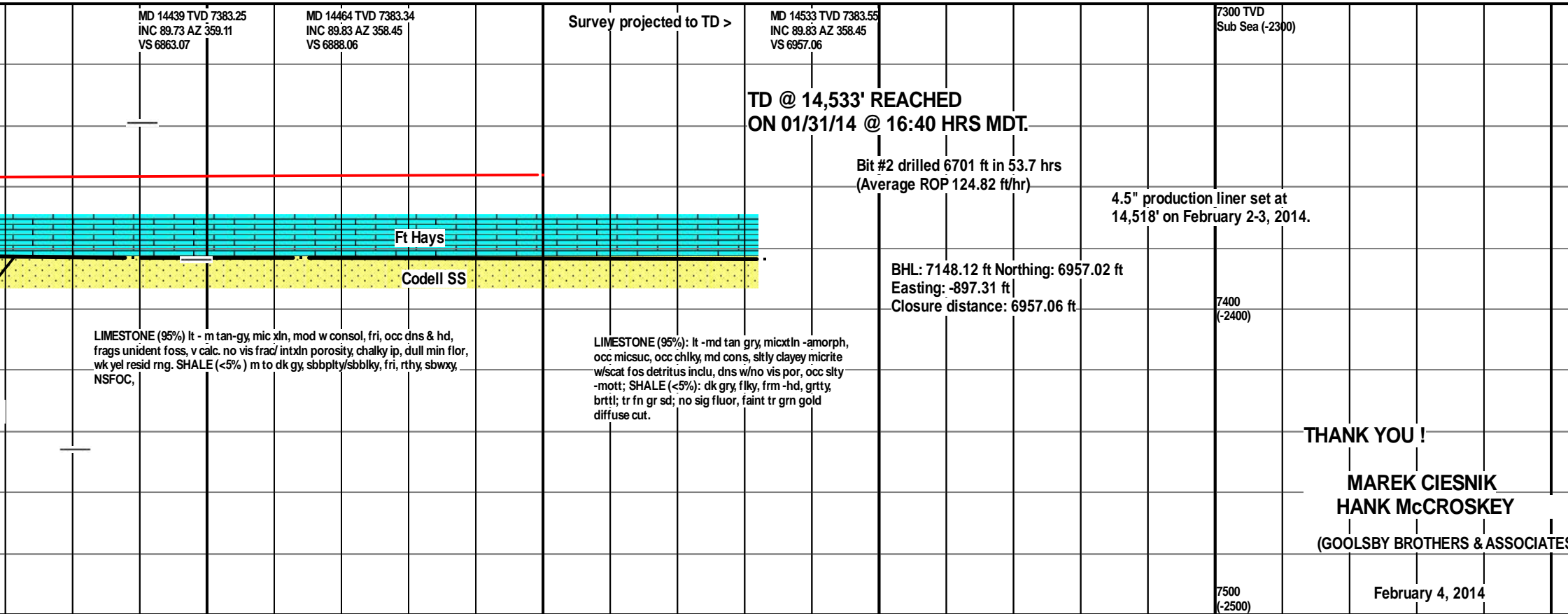
7500
(-2500)











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