



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

Well Name: NRC 30C-32HZ
Location: Section 8, T1N, R67W, Weld County, CO..
License Number: API: 05-123-39188
Spud Date: 5 June 2014
Surface Coordinates: 667' FNL, 575' FWL; NWNW Sec 8 T1N R67W;
Lat: 40 °4'15.809" N; Long: -104 °55'18.678" W
Bottom Hole Coordinates: 7' FSL, 99' FWL, NWNW Sec 32 T2N R67W;
Lat: 40 °6'7.787" N; Long: -104 °55'24.935" W
Ground Elevation (ft): 5061'
Logged Interval (ft): 7050' To: 18805'
Formation: Pierre Shales/Sands, Niobrara, Ft Hays, Codell
Type of Drilling Fluid: Water & Poly to 8217', Oil base mud 8217' - 18805'

Region: Wattenberg
Drilling Completed: 20 July 2014

K.B. Elevation (ft): 5077'
Total Depth (ft): 18805'

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

OPERATOR

Company: Kerr-McGee Oil & Gas Onshore LP
Address: Granite Tower - 1099 18th St, Ste 1800
Denver, CO 80202
CO Geologist, Tom Birmingham

GEOLOGIST

Name: Jack Rogers & John Adams
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)
Address: 575 Union Blvd.
Suite 208,
Lakewood CO. 80228

E-logs

MWD GR 7050' - 18805'

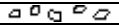


Casing

9 5/8" Surface Casing set @ 1,254' MD
7" Intermediate Casing set @ 8207' MD
4 1/2" Production liner hung @ 17890'




Comments

1) Drilling Contractor: Xtreme Drilling, Rig #22
Toolpusher: Torri Romero/Jake King
2) Company Man: Scott Hancock/Butch Beddingfield
Luke Raines/Merl Lehmkuhl
3) Mud Company : AES Engineer: Julianna Aycock
Samuel Pedersen
4) Directional Drilling: Sperry/Halliburton
Drillers: Jacob Suitter & Bogdan Cristian
MWD: Clay Wass & Robert Kerrigan
Caleb Jones/Ryan Skaarvold
5) Gas Equipment: Pason
6) Wellsite Geology: Goolsby Brothers & Associates
Geologists: Jack Rogers & John Adams




ROCK TYPES



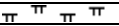


Anhy
Bent
Brec



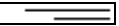

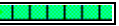
Cht
Clyst
Coal






Oil sat.
Congl
Dol






Gyp
Lmst
Mrlst





Salt
Shale
Shcol



Shgy
Ss
Sltst



Ss
Chalk
Carb sh



Silty sh
Arg ss

ACCESSORIES

MINERAL



Carb



Gyp



Salt



FOSSIL




ACCESSORIES



Ostra



STRINGER



Ls



TEXTURE



Cryxln



Wackest



OIL SHOWS

- Even
- Spotted



Ques



Dead



Vspotty



near even

POROSITY TYPE

- Earthy
- Fenest



Fracture



Inter



Moldic

OTHER SYMBOLS



Organic



Pinpoint



Vuggy

ROUNDING

- Rounded
- Subrnd



Subang



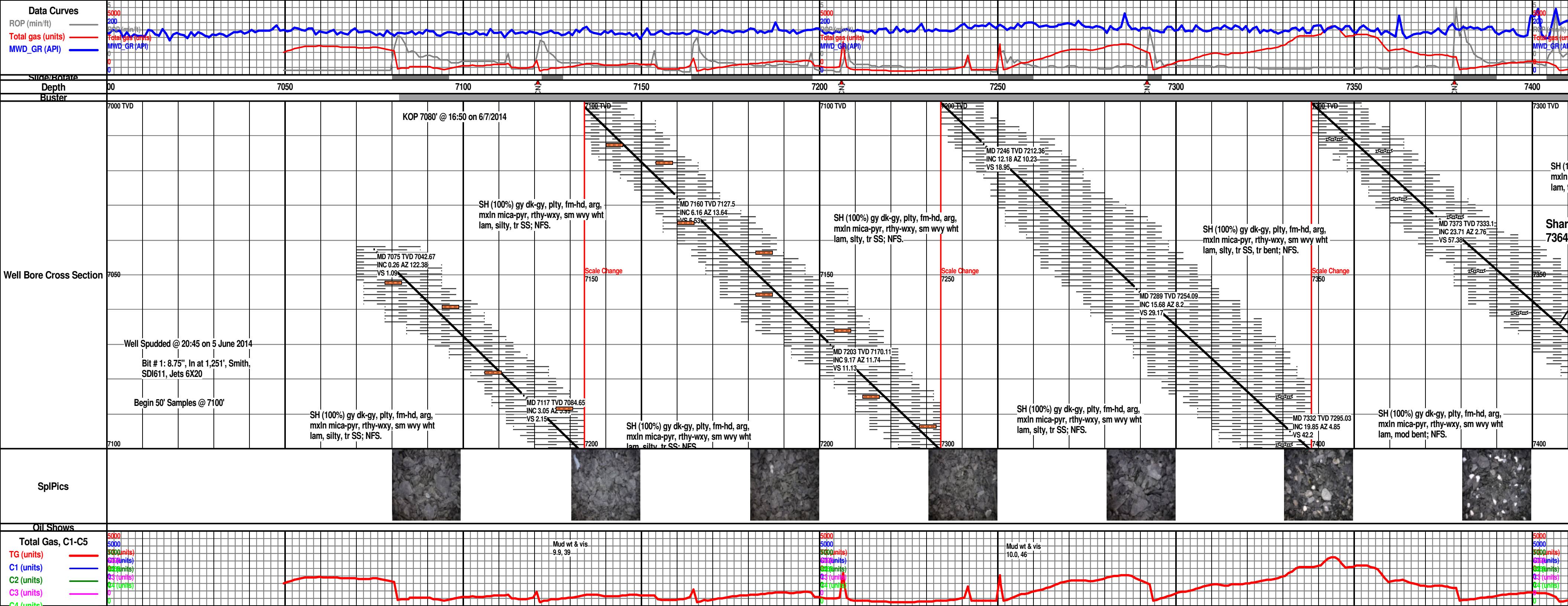
Angular

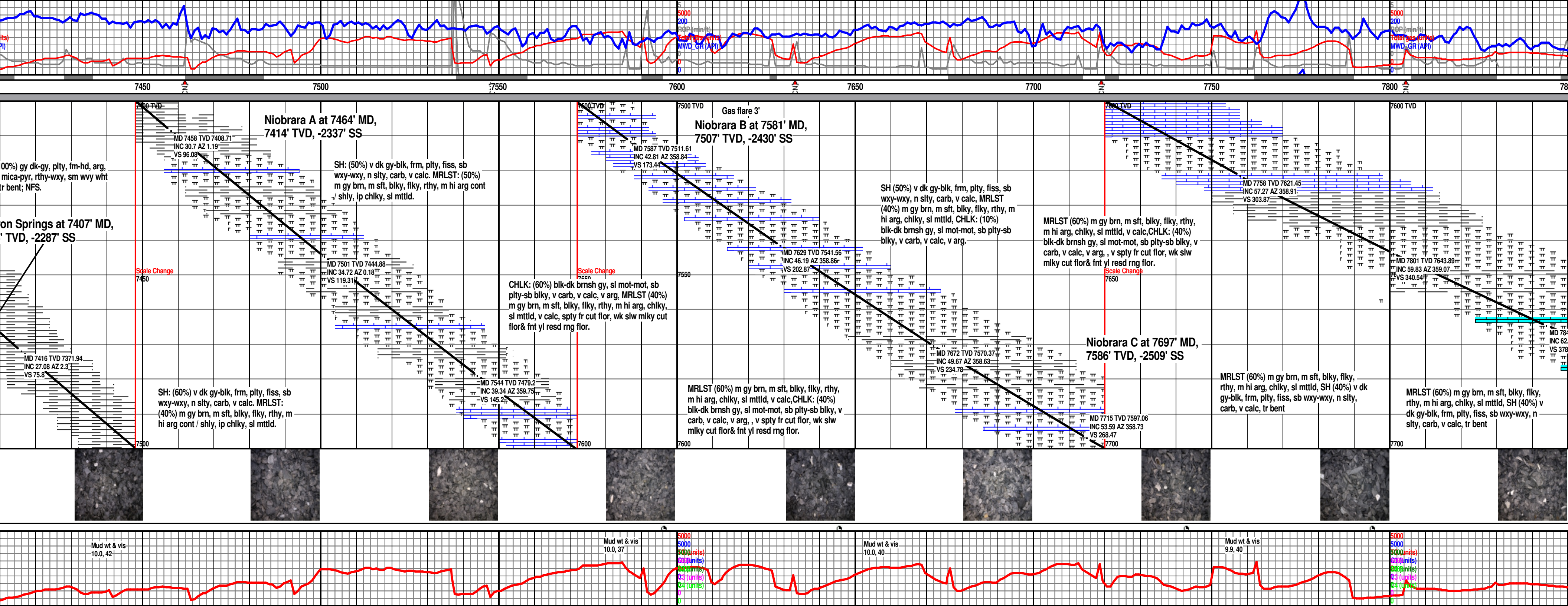
SORTING

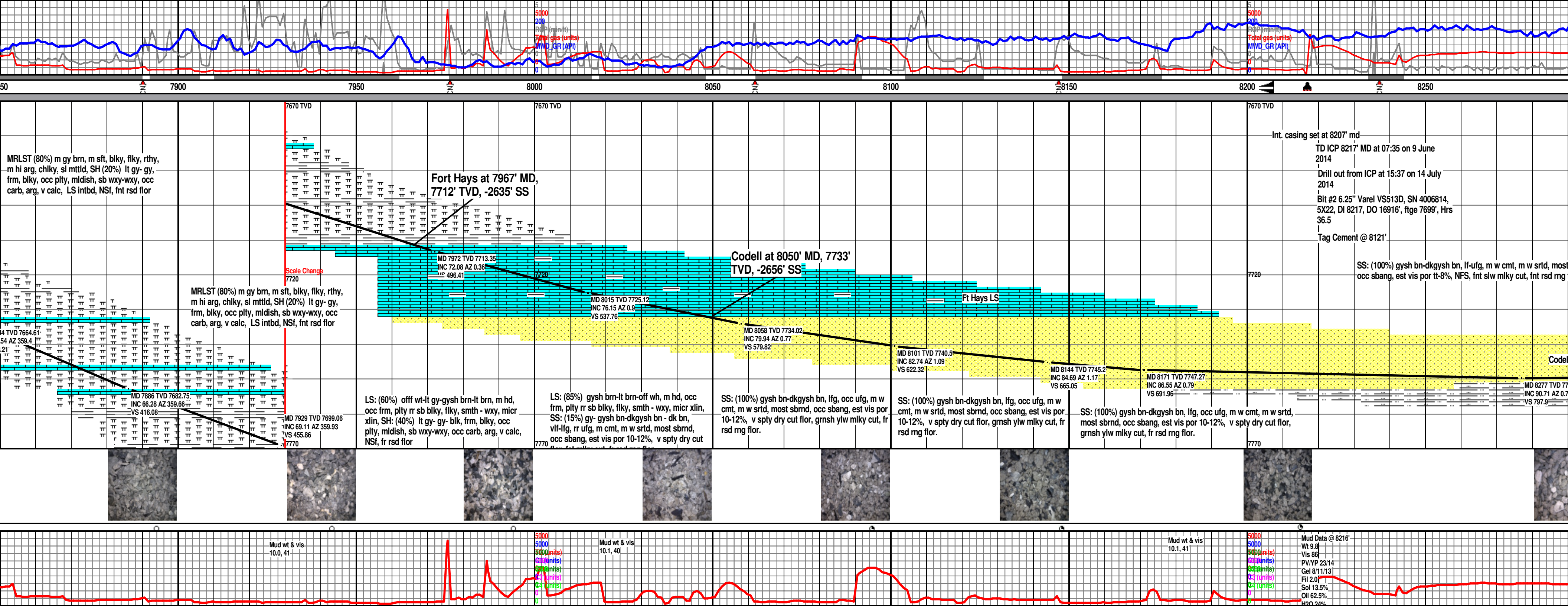
- Well
- Moderate

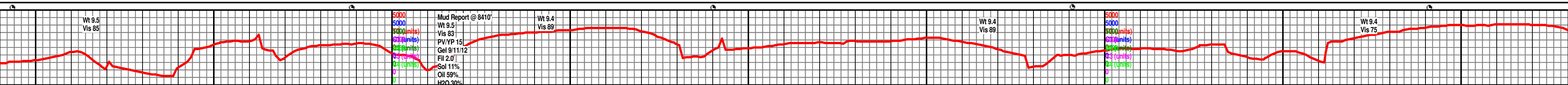
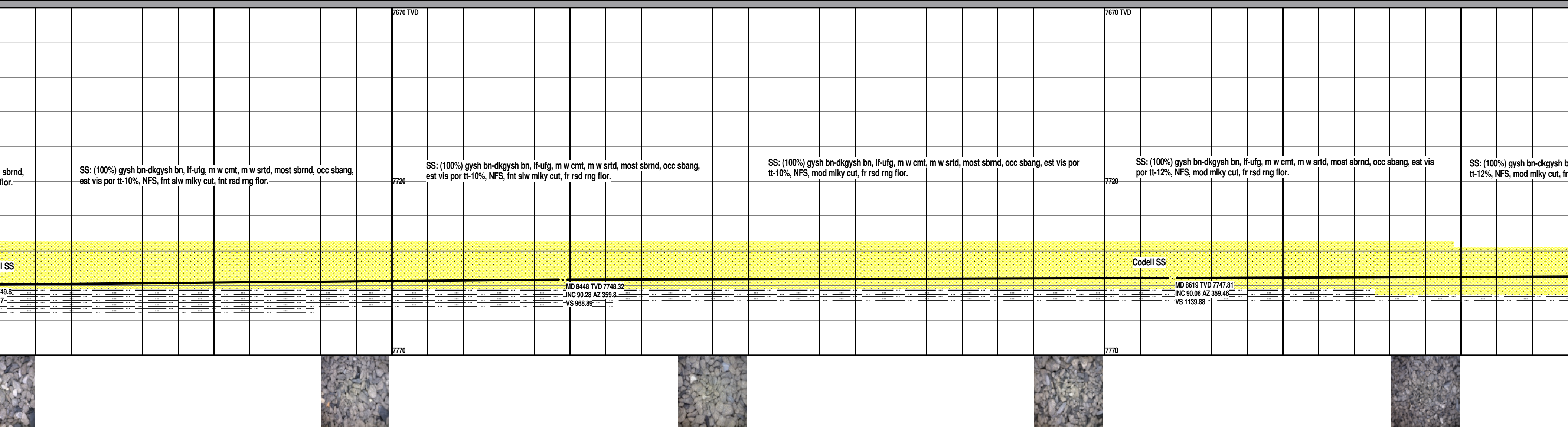
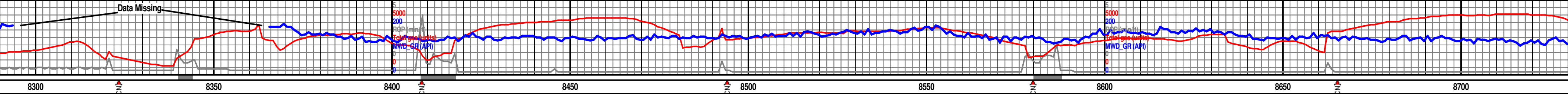


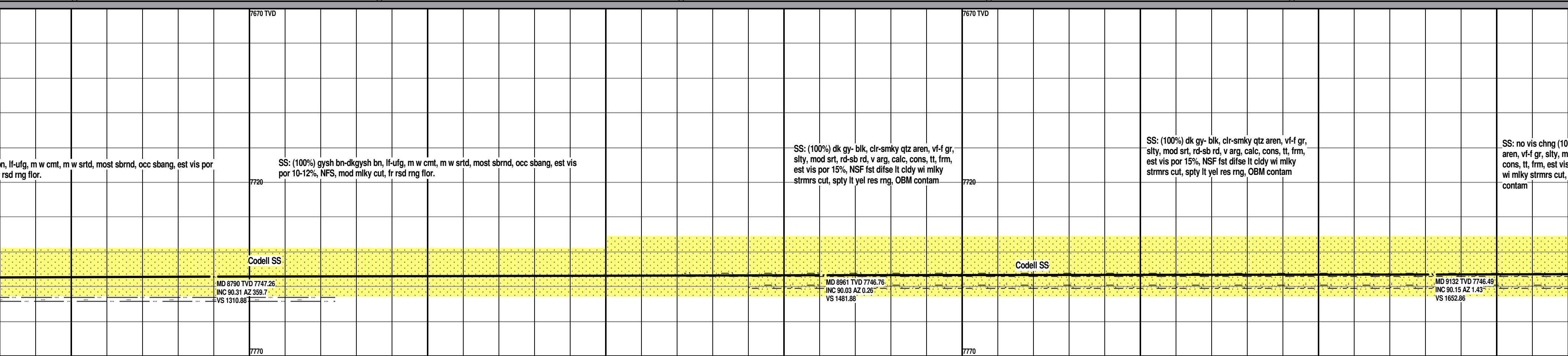
Poor

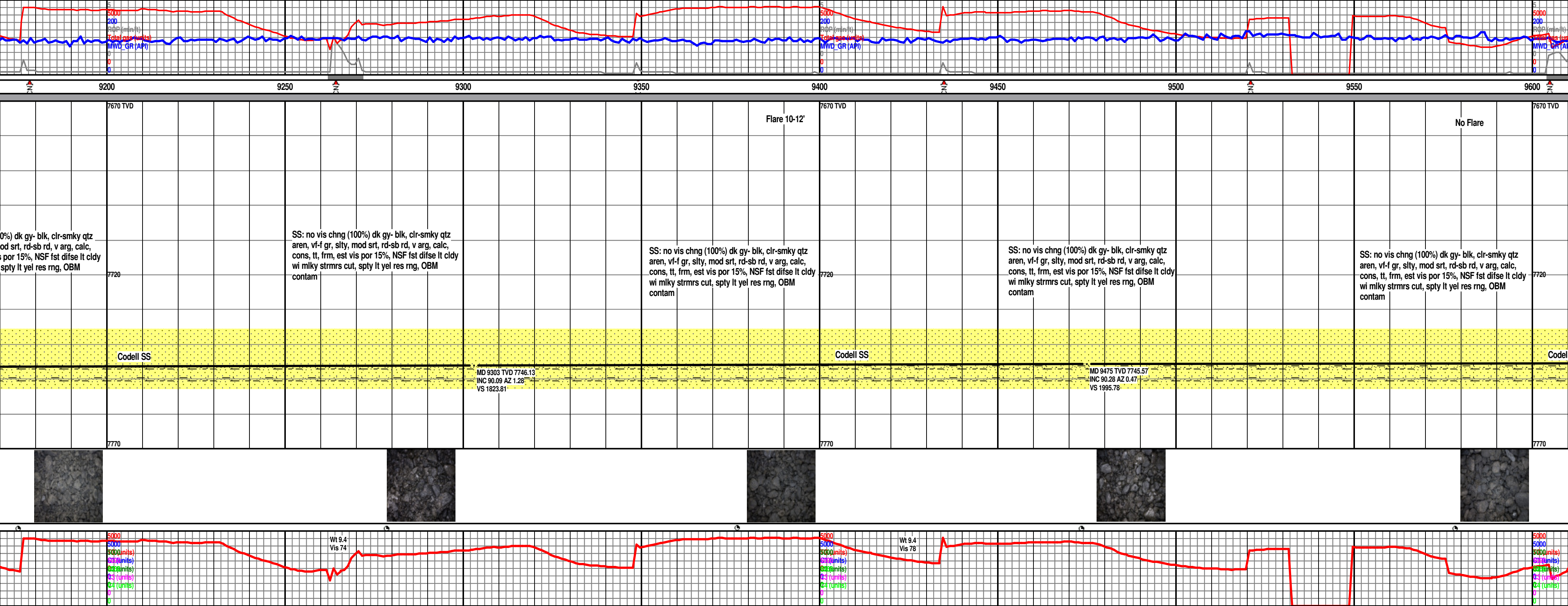


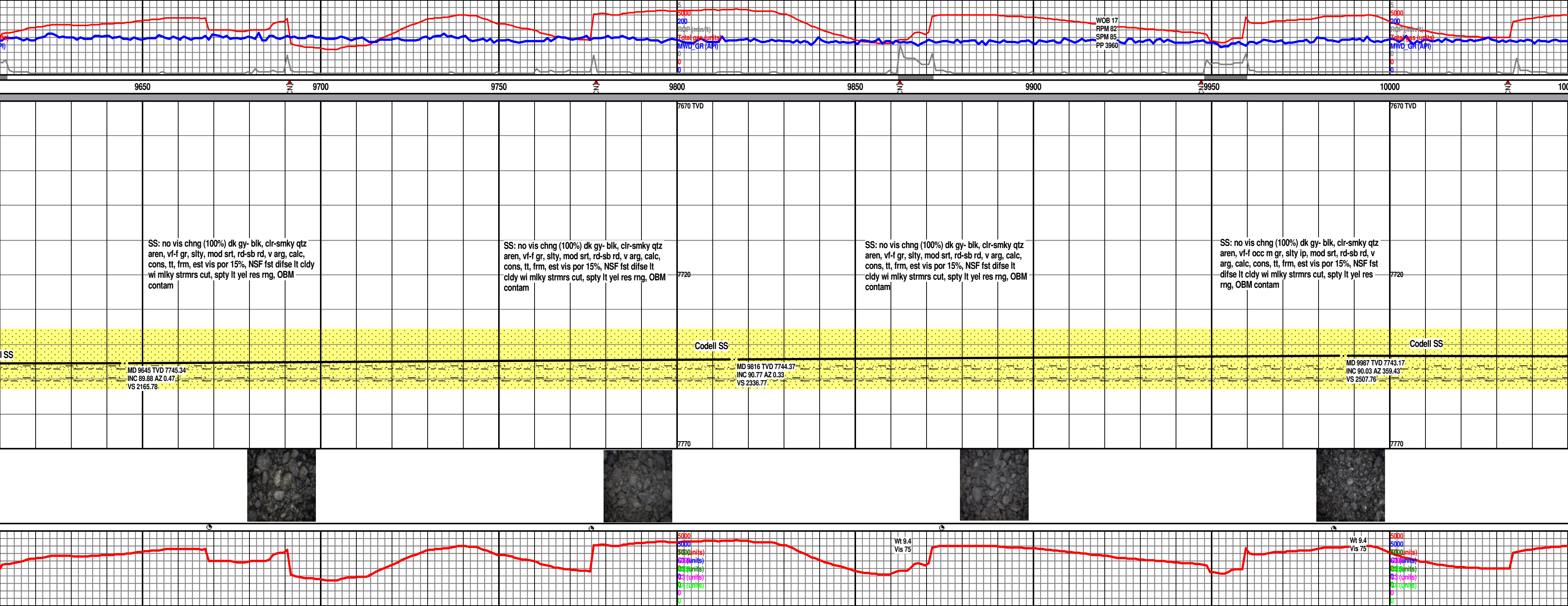


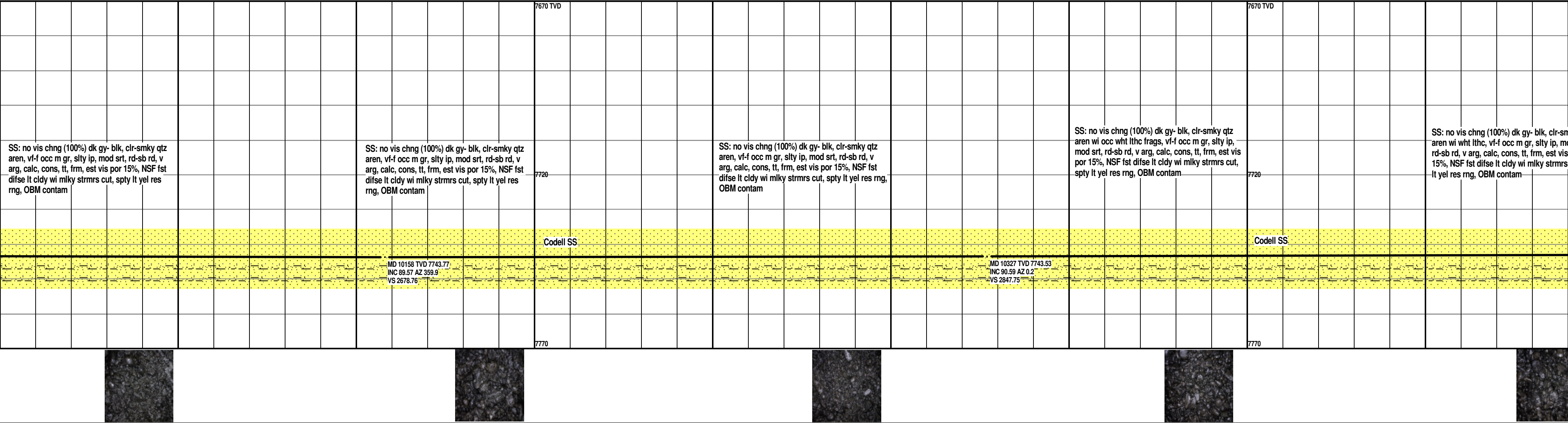


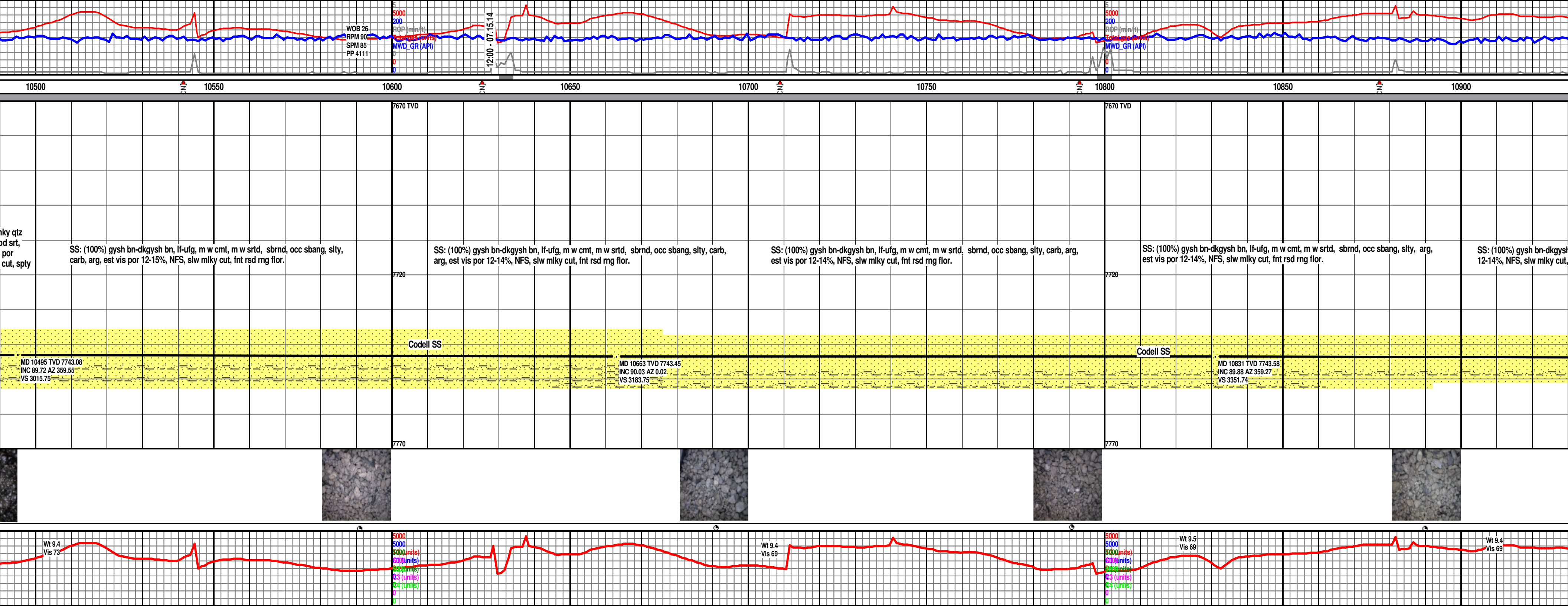


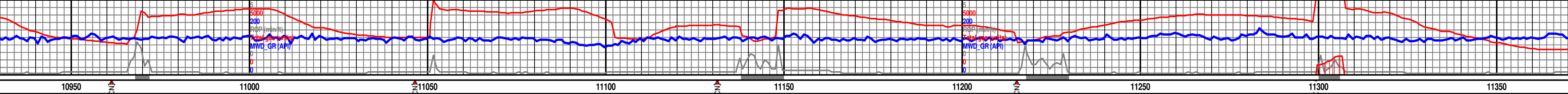




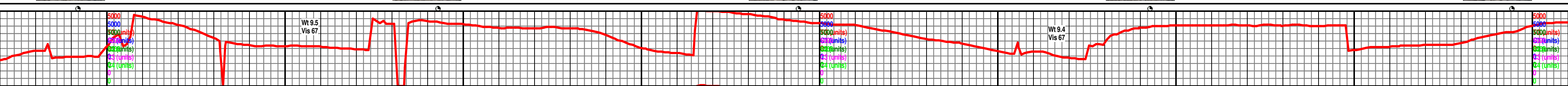
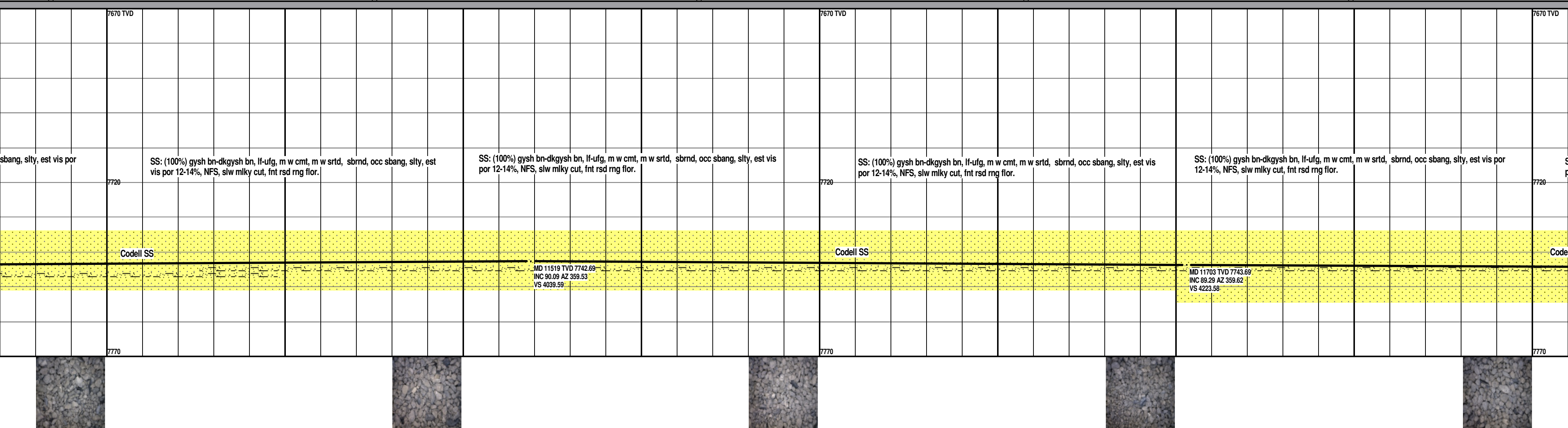
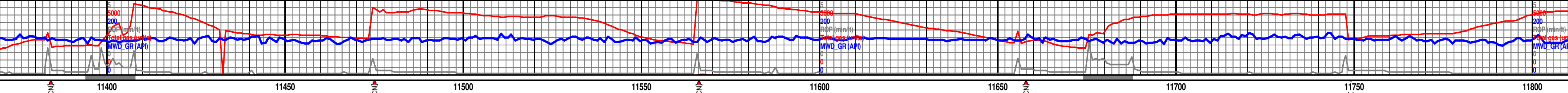


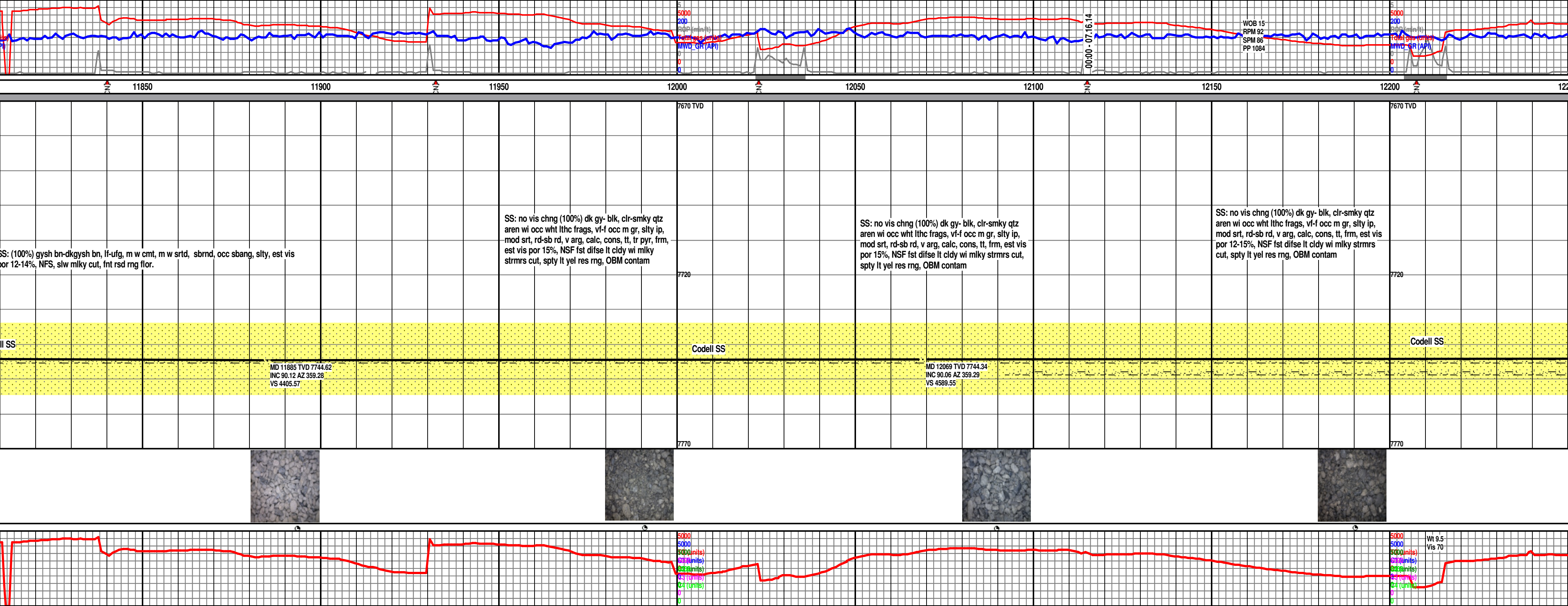


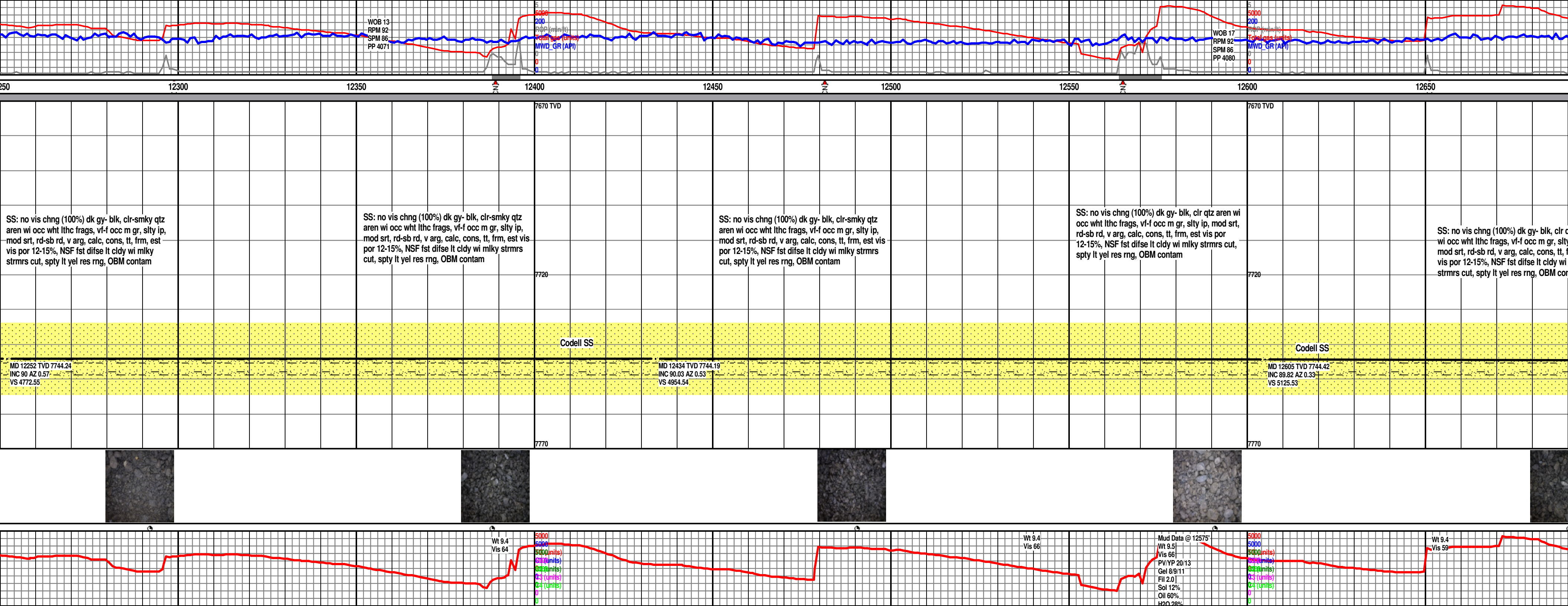


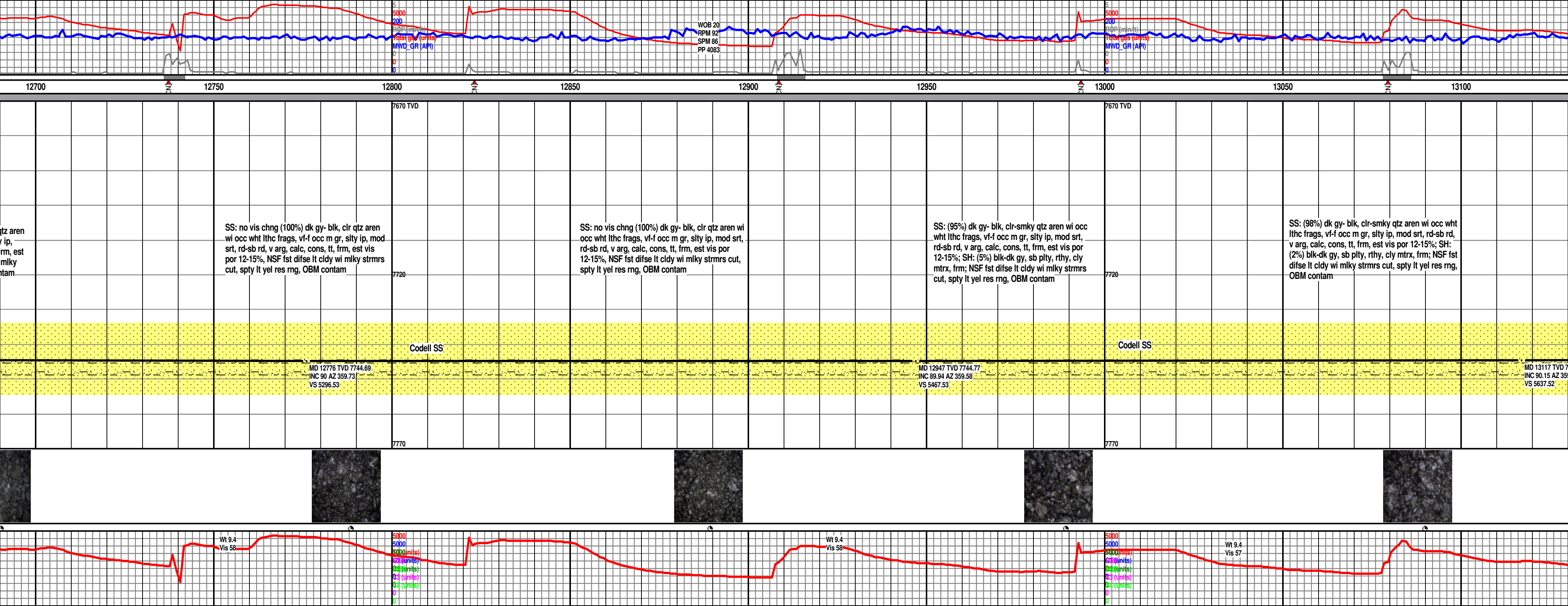


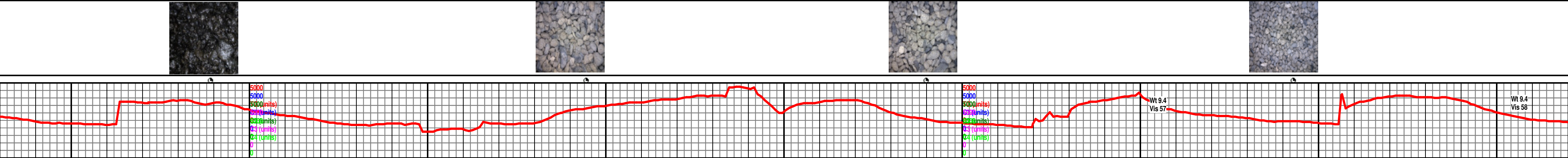
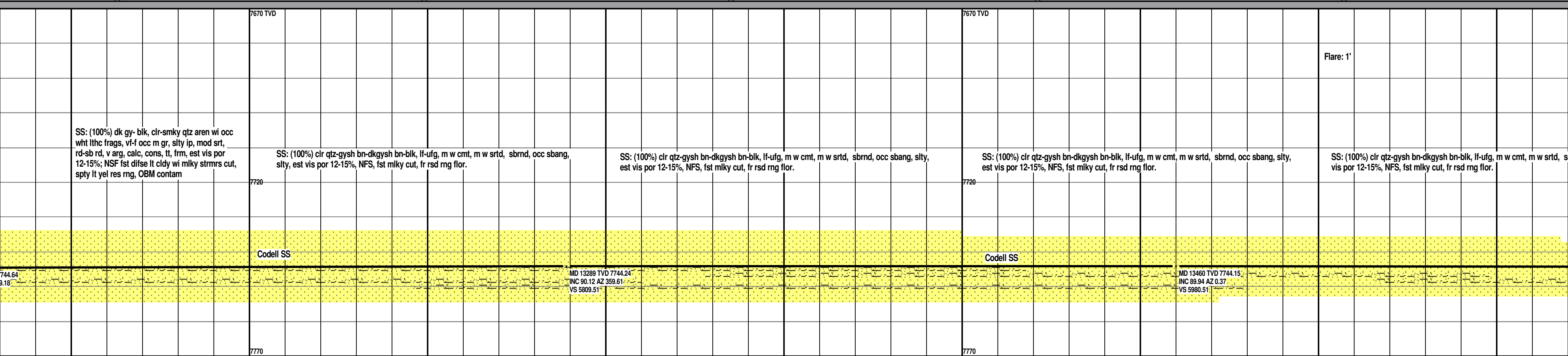
bn, lf-ufg, m w srt, sbrnd, occ sbang, slty, arg, est vis por fnt rsd rng flor.										SS: (100%) gysh bn-dkgysh bn, lf-ufg, m w srt, sbrnd, occ sbang, slty, arg, est vis por 12-14%, NFS, slw mlky cut, fnt rsd rng flor.										SS: (100%) gysh bn-dkgysh bn, lf-ufg, m w srt, sbrnd, occ sbang, slty, arg, est vis por 12-14%, NFS, slw mlky cut, fnt rsd rng flor.										SS: (100%) gysh bn-dkgysh bn, lf-ufg, m w srt, sbrnd, occ sbang, slty, est vis por 12-14%, NFS, slw mlky cut, fnt rsd rng flor.										SS: (100%) gysh bn-dkgysh bn, lf-ufg, m w srt, sbrnd, occ 12-14%, NFS, slw mlky cut, fnt rsd rng flor.									
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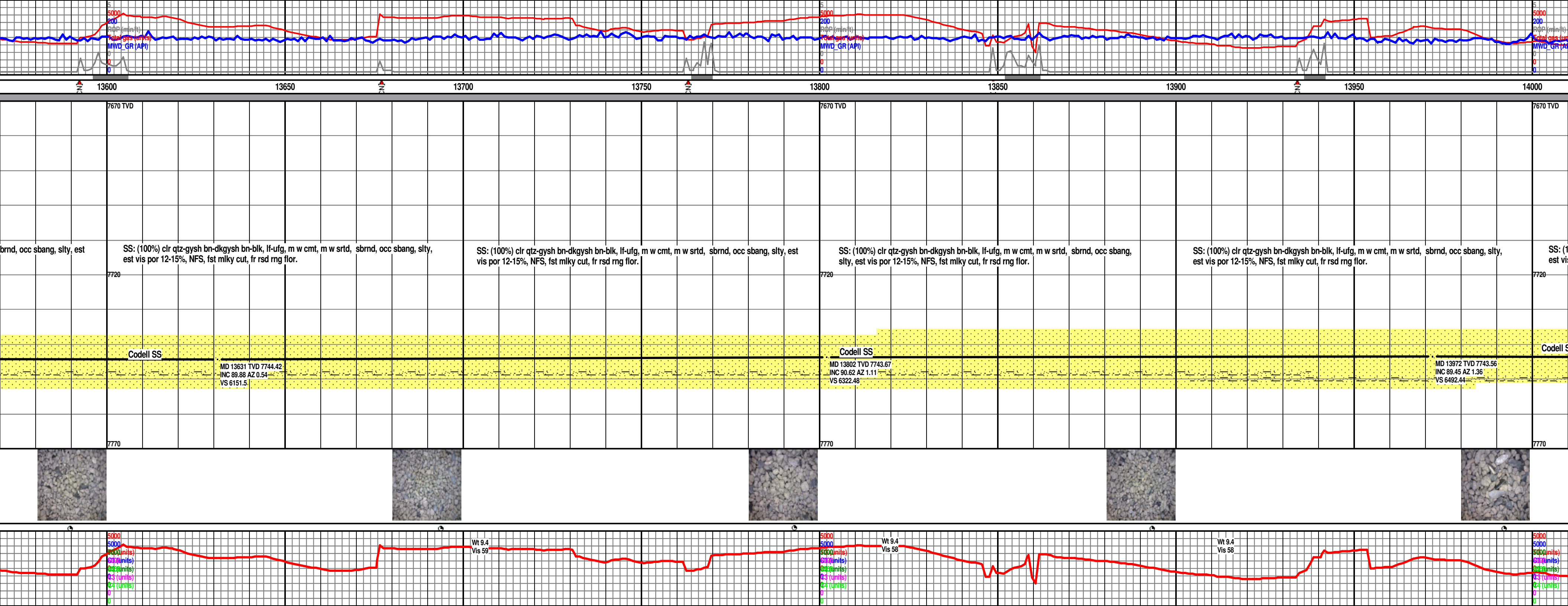


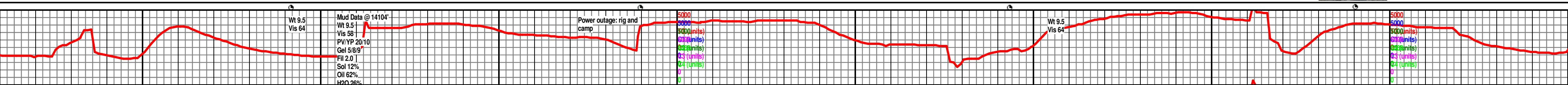
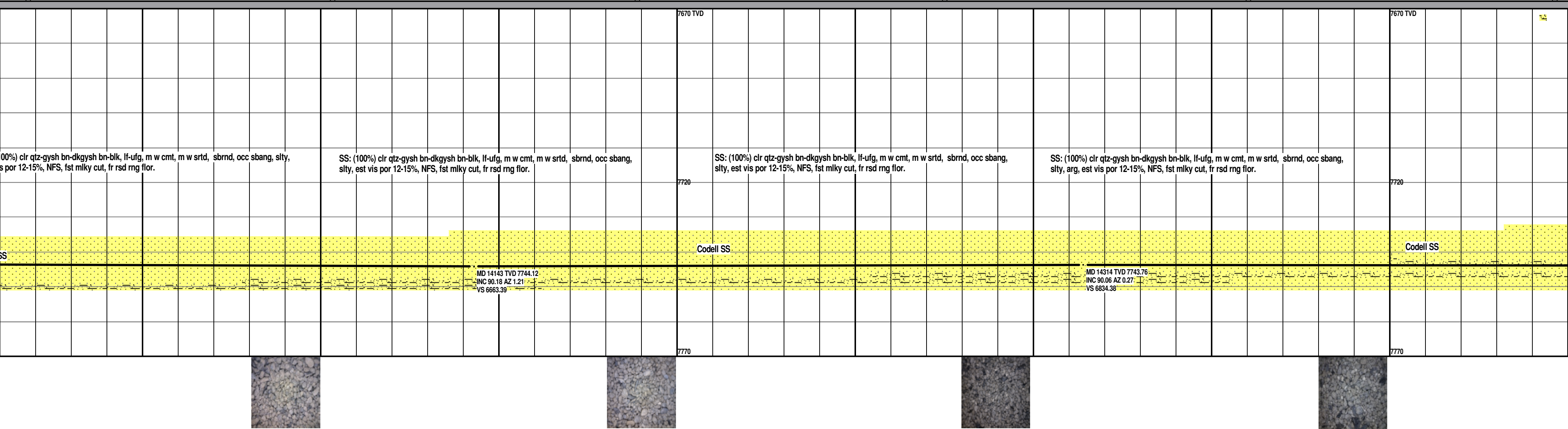
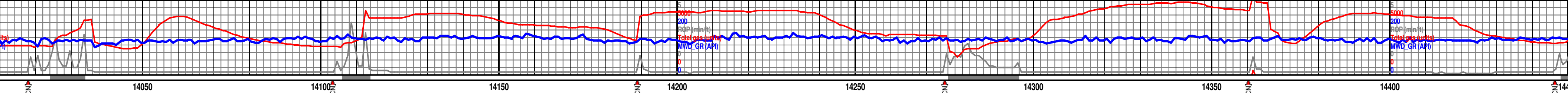


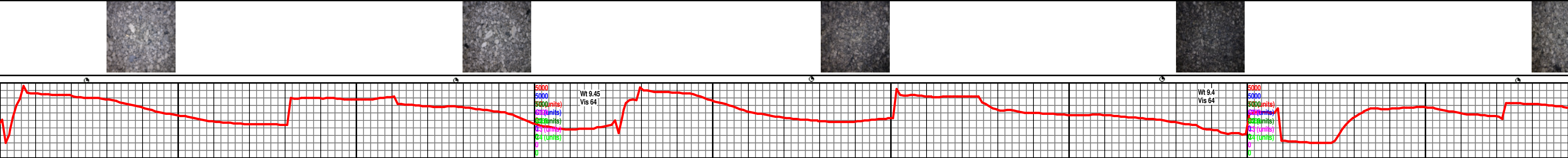
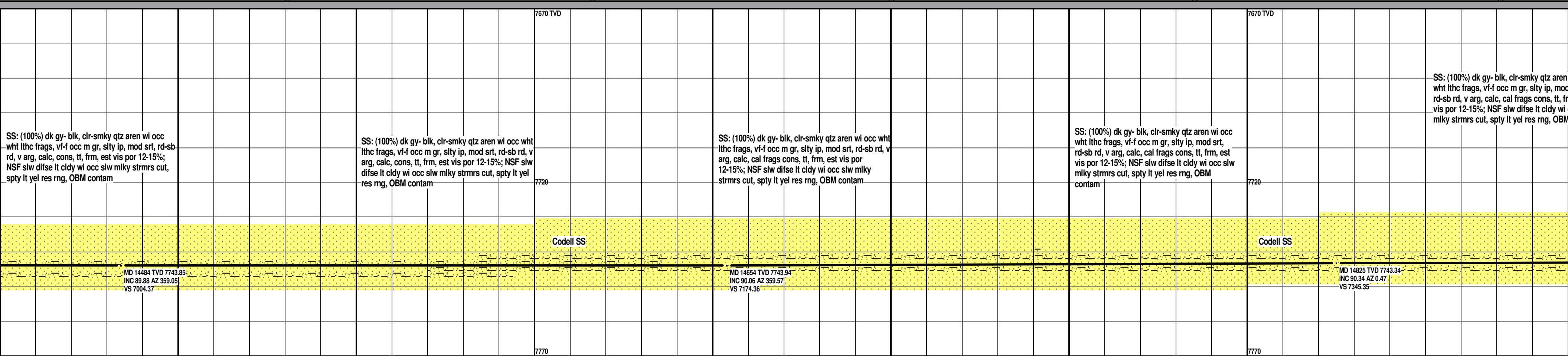


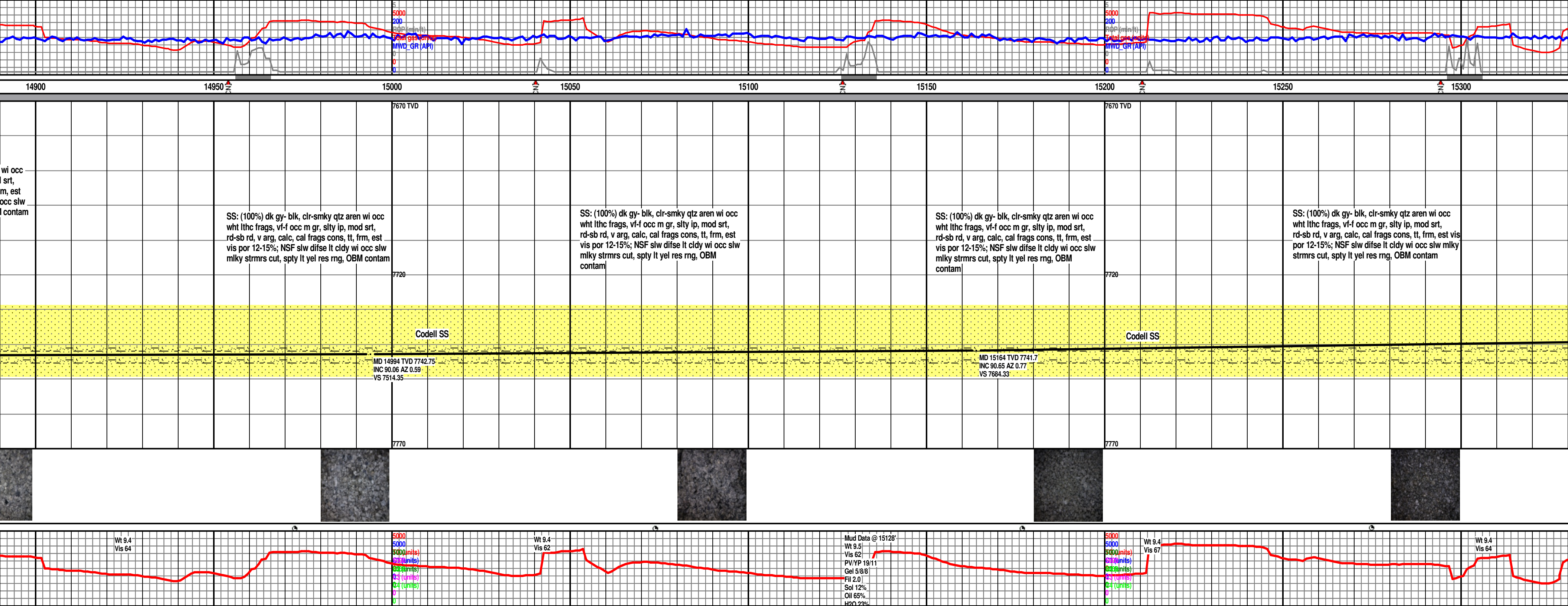


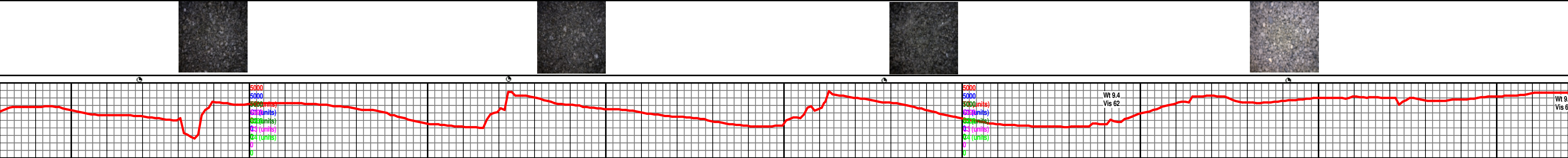
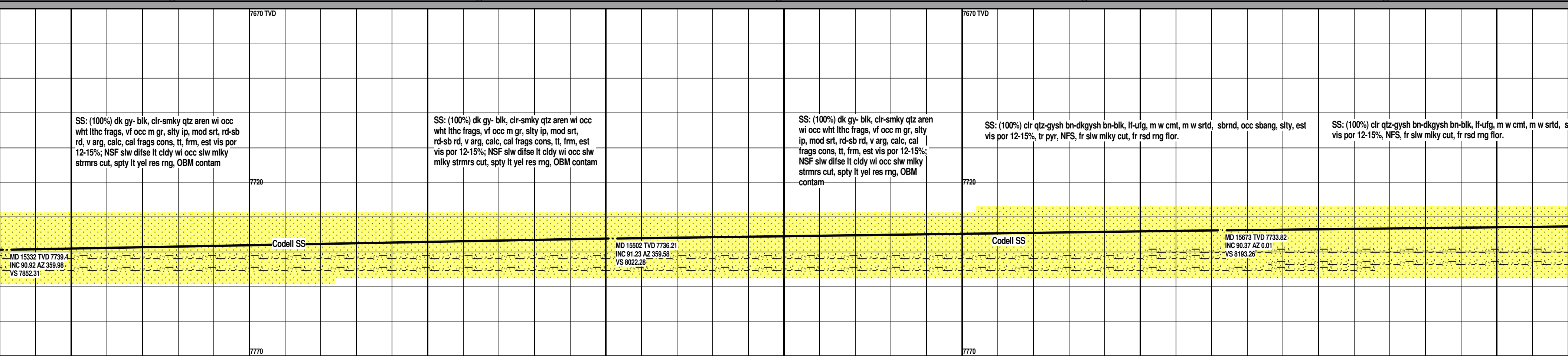


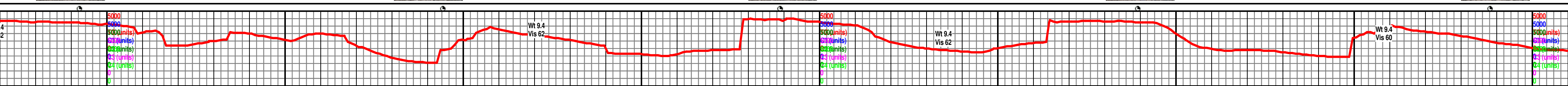
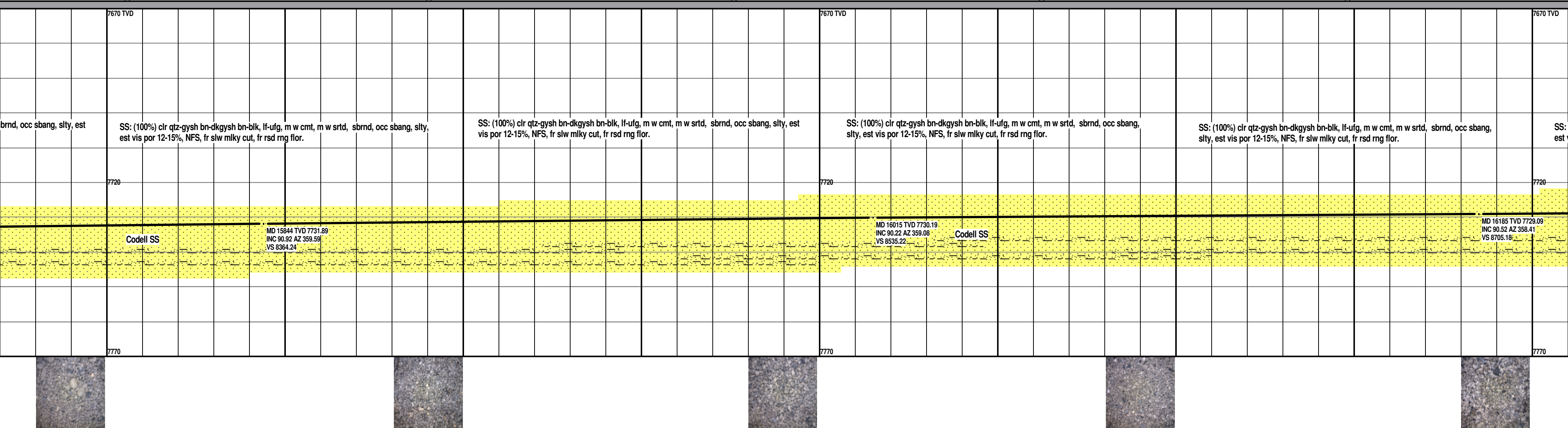
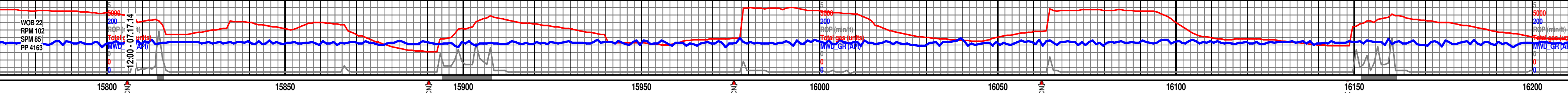


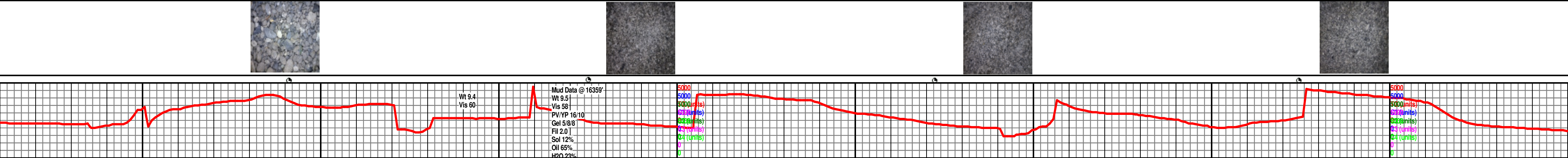
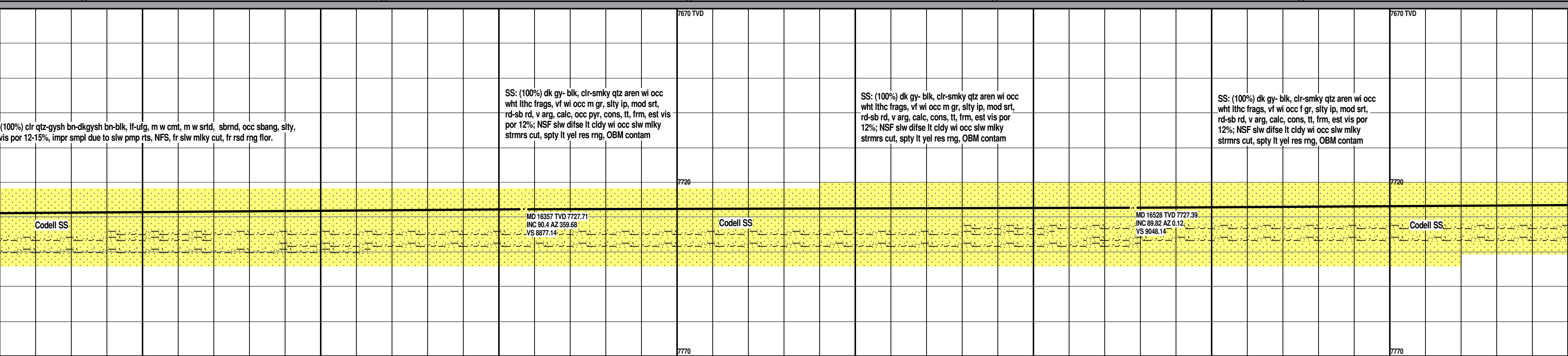


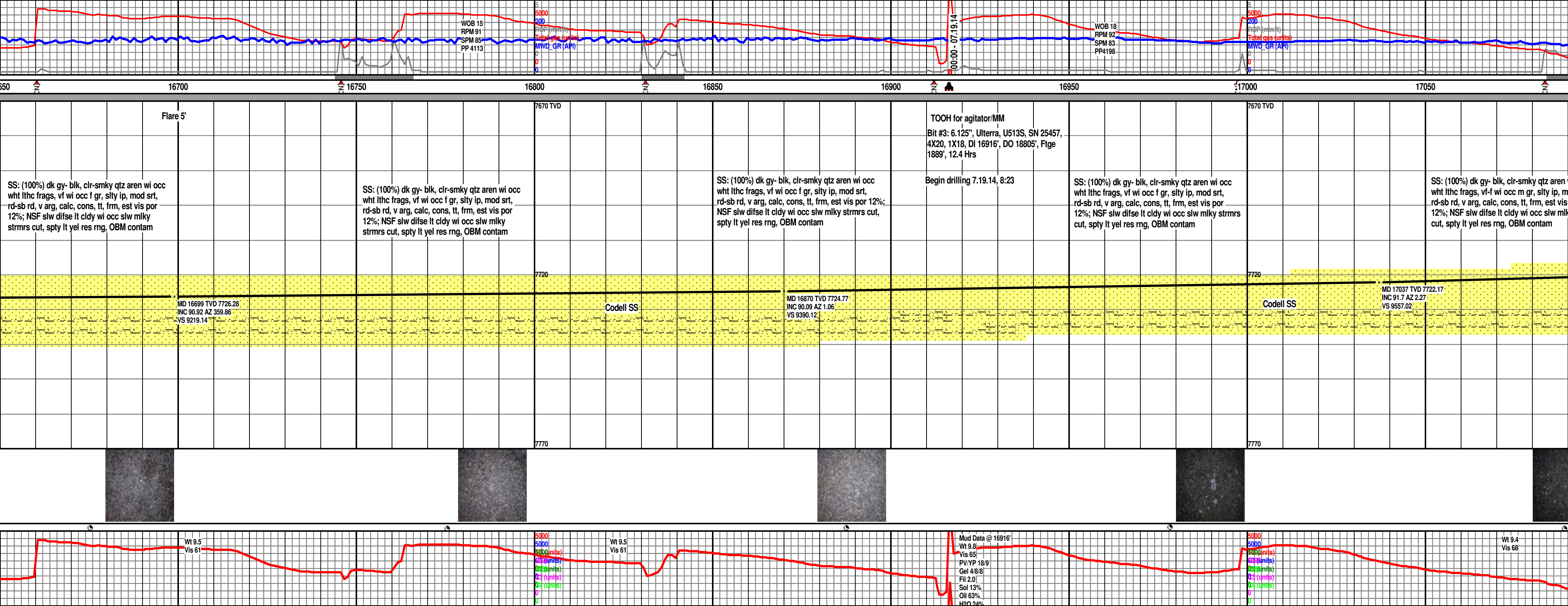












Flare 5'

SS: (100%) dk gy- blk, clr-smky qtz aren wi occ wht lith frags, vf wi occ f gr, slty ip, mod srt, rd-sb rd, v arg, calc, cons, tt, frm, est vis por 12%; NSF slw difse lt cldy wi occ slw mlky strmr cut, spty lt yel res rng, OBM contam

SS: (100%) dk gy- blk, clr-smky qtz aren wi occ wht lith frags, vf wi occ f gr, slty ip, mod srt, rd-sb rd, v arg, calc, cons, tt, frm, est vis por 12%; NSF slw difse lt cldy wi occ slw mlky strmr cut, spty lt yel res rng, OBM contam

SS: (100%) dk gy- blk, clr-smky qtz aren wi occ wht lith frags, vf wi occ f gr, slty ip, mod srt, rd-sb rd, v arg, calc, cons, tt, frm, est vis por 12%; NSF slw difse lt cldy wi occ slw mlky strmr cut, spty lt yel res rng, OBM contam

TOOH for agitator/MM
Bit #3: 6.125", Ultrera, U513S, SN 25457, 4X20, 1X18, DI 16916', DO 18805', Ftge 1889', 12.4 Hrs

Begin drilling 7.19.14, 8:23

SS: (100%) dk gy- blk, clr-smky qtz aren wi occ wht lith frags, vf wi occ f gr, slty ip, mod srt, rd-sb rd, v arg, calc, cons, tt, frm, est vis por 12%; NSF slw difse lt cldy wi occ slw mlky strmr cut, spty lt yel res rng, OBM contam

SS: (100%) dk gy- blk, clr-smky qtz aren wi occ wht lith frags, vf-f wi occ m gr, slty ip, mod srt, rd-sb rd, v arg, calc, cons, tt, frm, est vis por 12%; NSF slw difse lt cldy wi occ slw mlky strmr cut, spty lt yel res rng, OBM contam

MD 16699 TVD 7726.28
INC 90.92 AZ 359.86
VS 9219.14

Codell SS

MD 16870 TVD 7724.77
INC 90.09 AZ 1.06
VS 9390.12

Codell SS

MD 17037 TVD 7722.17
INC 91.7 AZ 2.27
VS 9557.02

Wt 9.5
Vis 61

Wt 9.5
Vis 61

Mud Data @ 16916'
Wt 9.8
Vis 65
PV/YP 18/9
Gel 4/8/8
Fil 2.0
Sol 13%
Oil 63%
H2O 24%

Wt 9.4
Vis 68

