

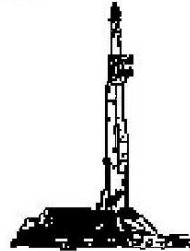
GOOLSBY BROTHERS
and associates, inc.

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: NRC 28C-8HZ

Well Id:

Location: SWSE Sec. 8 T1N R67W Weld County, CO.

License Number: API:051233909200 AFE: xxxx

Spud Date: May 8, 2014

Surface Coordinates: 350' FSL, 1810' FEL

Lat. xxxxx, Lon. -xxxxxx, Sec.8, T1N R67W

Bottom Hole Coordinates: 460' FNL, 2345' FEL

Lat. xxxxxx, Lon. -xxxxxx, Sec. 8, T1NR67W

Ground Elevation (ft): 5063'

Logged Interval (ft): 7200'

To: xxxxx'

Formation: Codell

Type of Drilling Fluid: LSND (Polymer-Water)

K.B. Elevation (ft): 5076'

Total Depth (ft): xxxx'

Region: Wattenberg

Drilling Completed: May xxth, 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

Comments






















ROCK TYPES

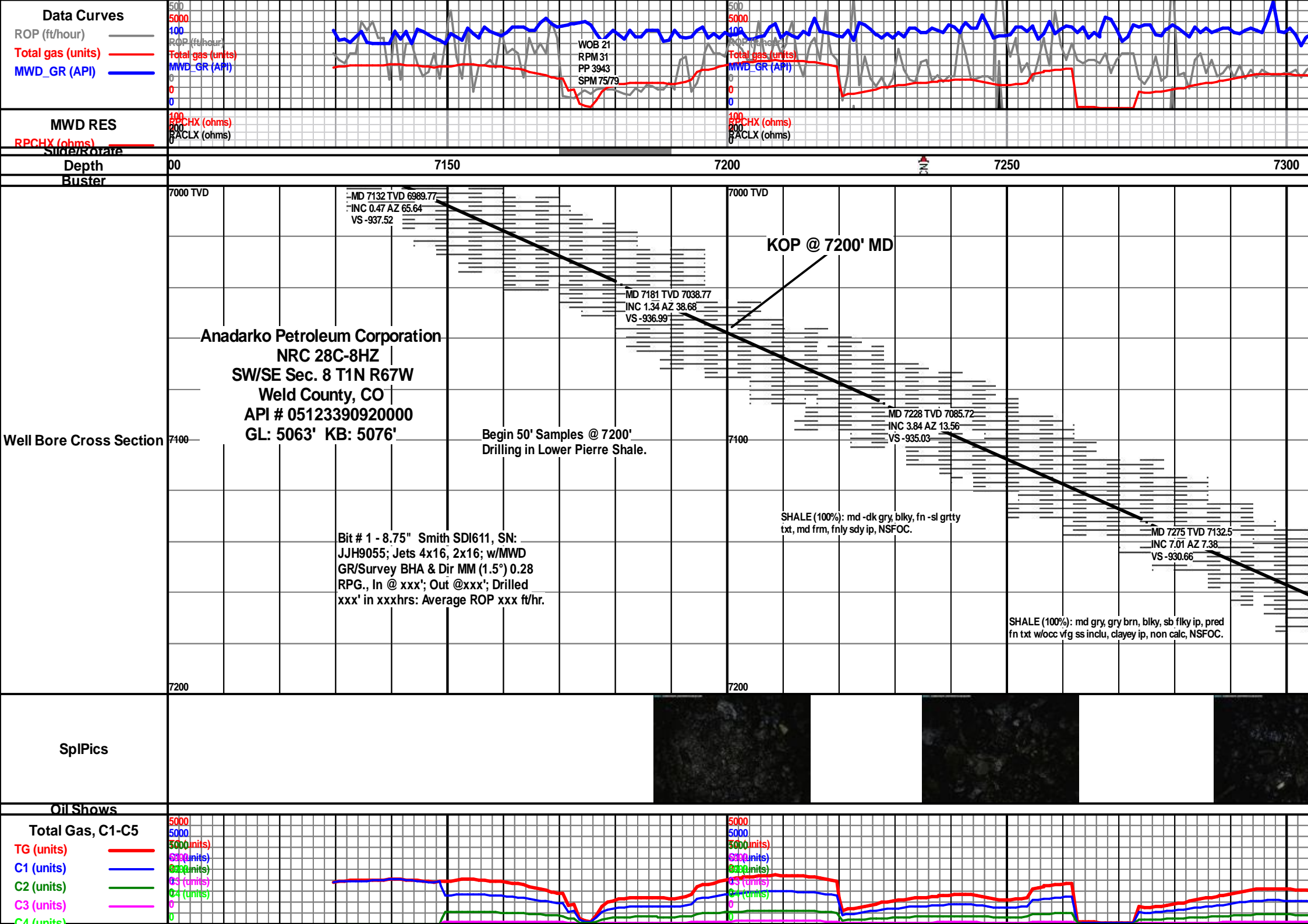
	Anhy		Clyst		Dol		Salt		Ss		Carb sh
	Bent		Coal		Gyp		Shale		Sltst		Silty sh
	Brec		Oil sat.		Lmst		Shcol		Ss		
	Cht		Congl		Mrlst		Shgy		Chalk		

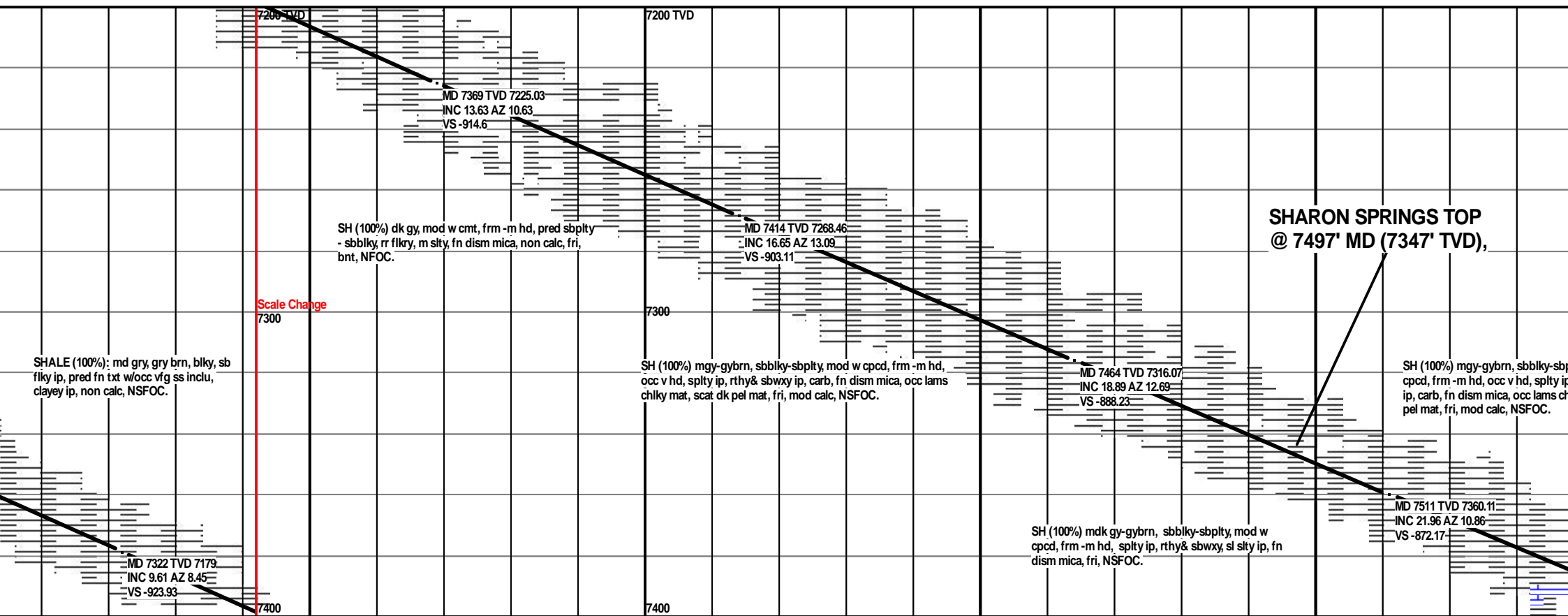
ACCESSORIES

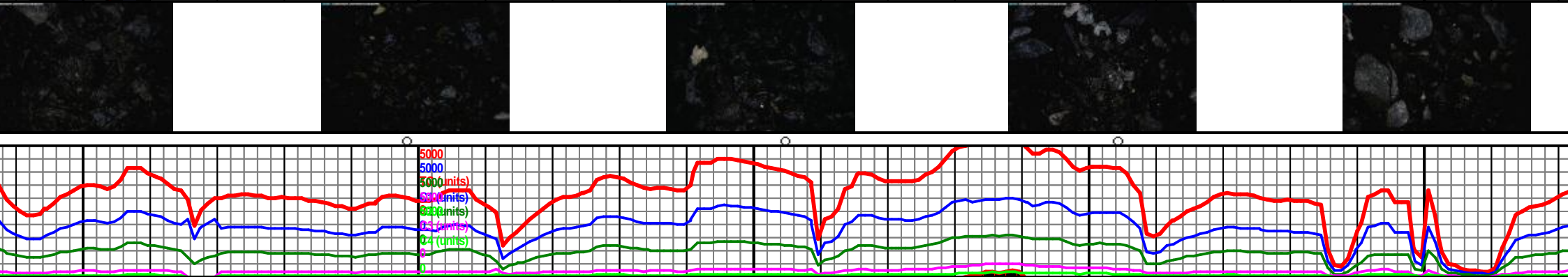
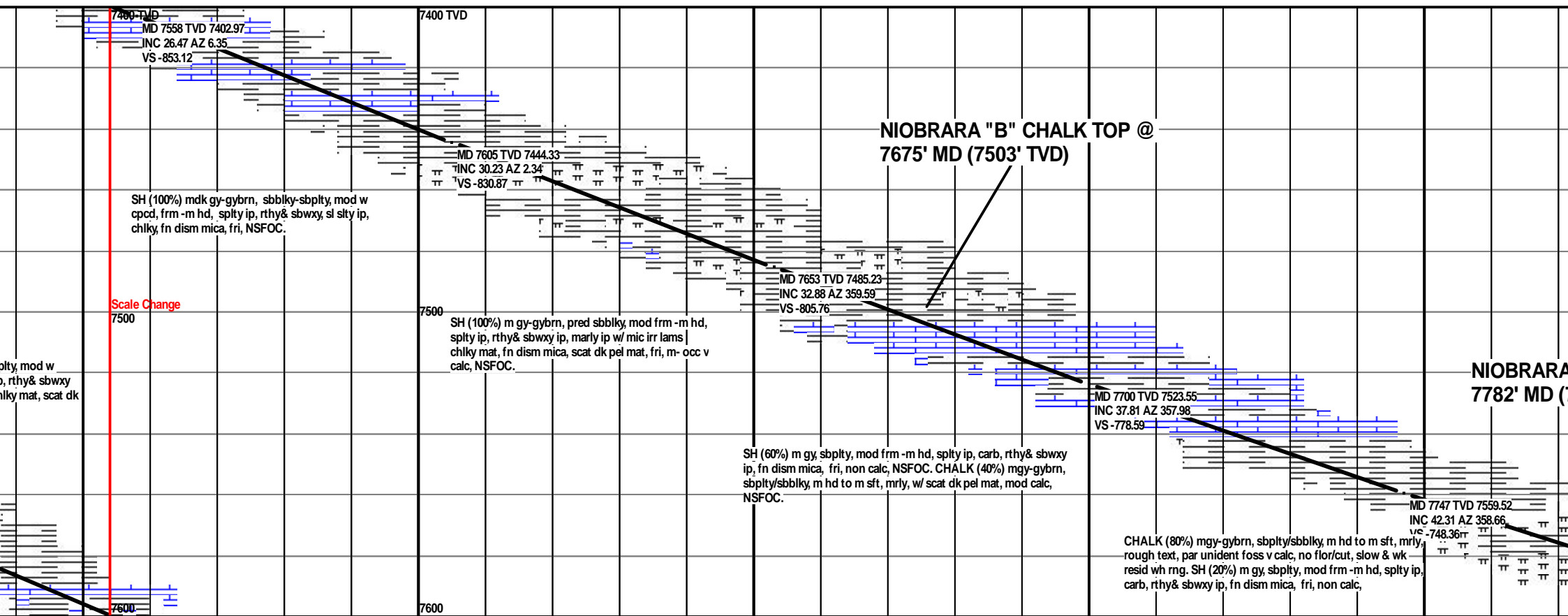
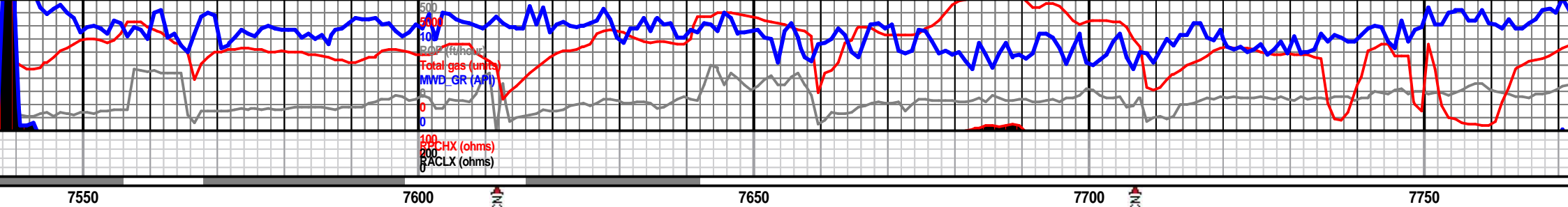
MINERAL		Ferr		Sulphur		Fish		Anhy		Cryxln	
	Anhy		Glau		Tuff		Foram		Arg		Earthy
	Arggrn		Gyp				Fossil		Bent		Finexln
	Arg		Hvymin	FOSSIL			Gastro		Coal		Grainst
	Bent		Kaol		Algae		Oolite		Dol		Lithogr
	Bit		Marl		Amph		Ostra		Gyp		Microxln
	Brecfrag		Minxl		Belm		Pelec		Ls		Mudst
	Calc		Nodule		Bioclst		Pellet		Mrst		Packst
	Carb		Phos		Brach		Pisolite		Sltstrg		Wackest
	Chtdk		Pyr		Bryozoa		Plant		Ssstrg		
	Chtlt		Salt		Cephal						
	Dol		Sandy		Coral	STRINGER		TEXTURE			
	Feldspar		Silt		Crin		Chlkstg		Boundst		
	Ferrpel		Sil		Echin				Chalky		

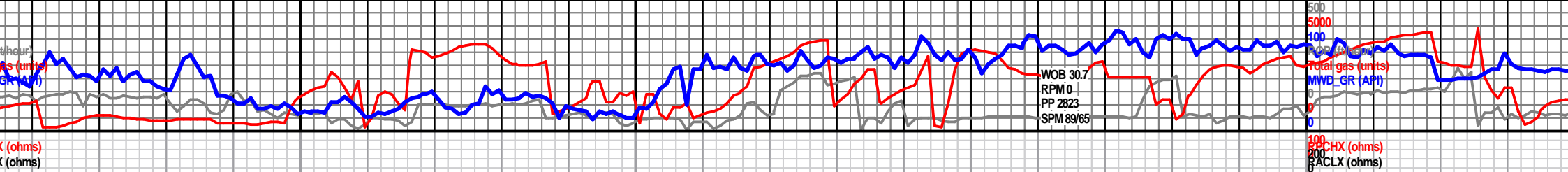
OTHER SYMBOLS

OIL SHOWS			Vspotty		Fenest		Pinpoint		Subrnd	SORTING	
	Even		near even		Fracture		Vuggy		Subang		Well
	Spotted				Inter				Angular		Moderate
	Ques	POROSITY TYPE			Moldic	ROUNDING					Poor
	Dead		Earthy		Organic		Rounded				

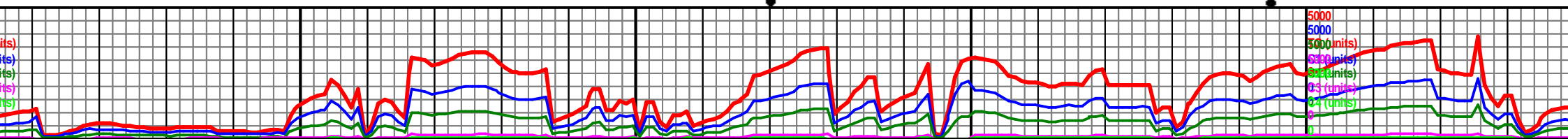
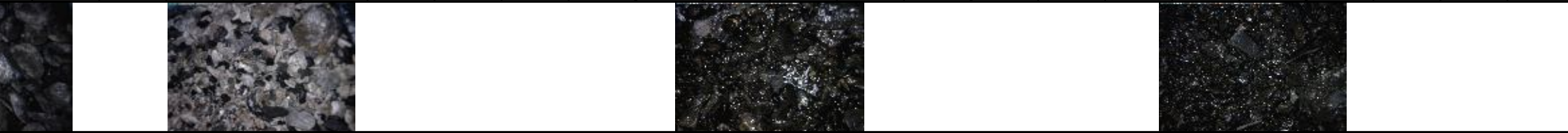
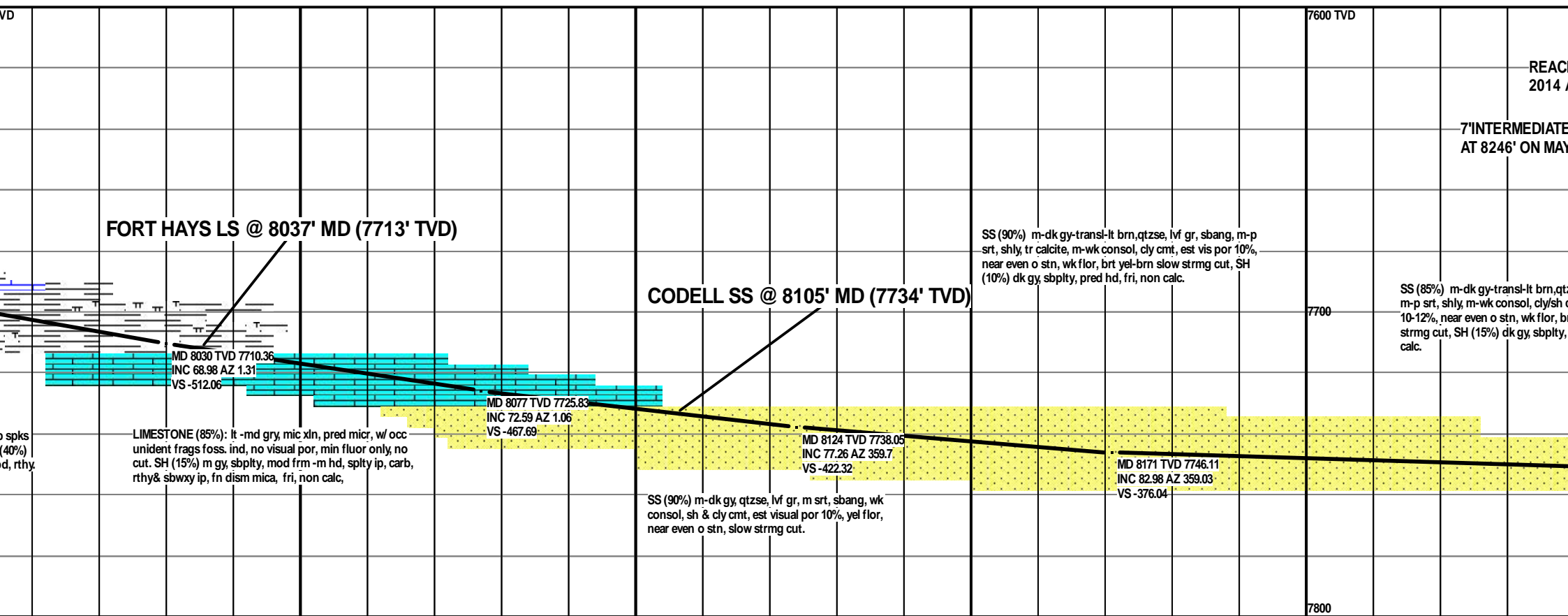


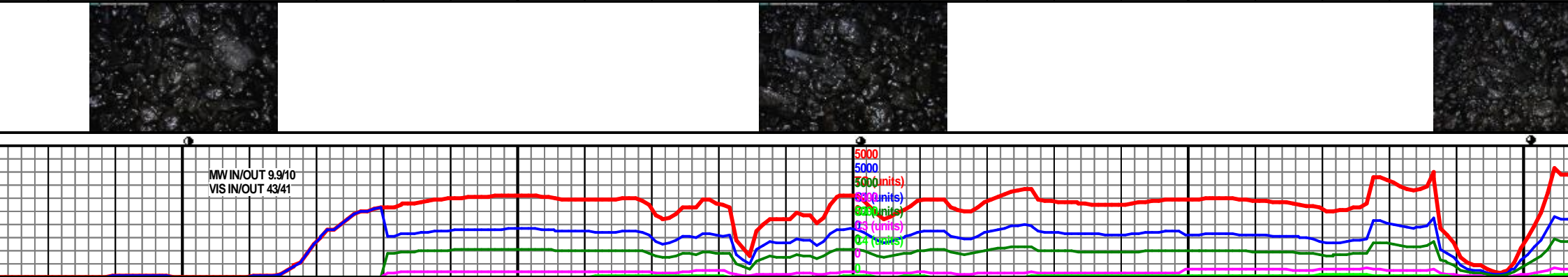
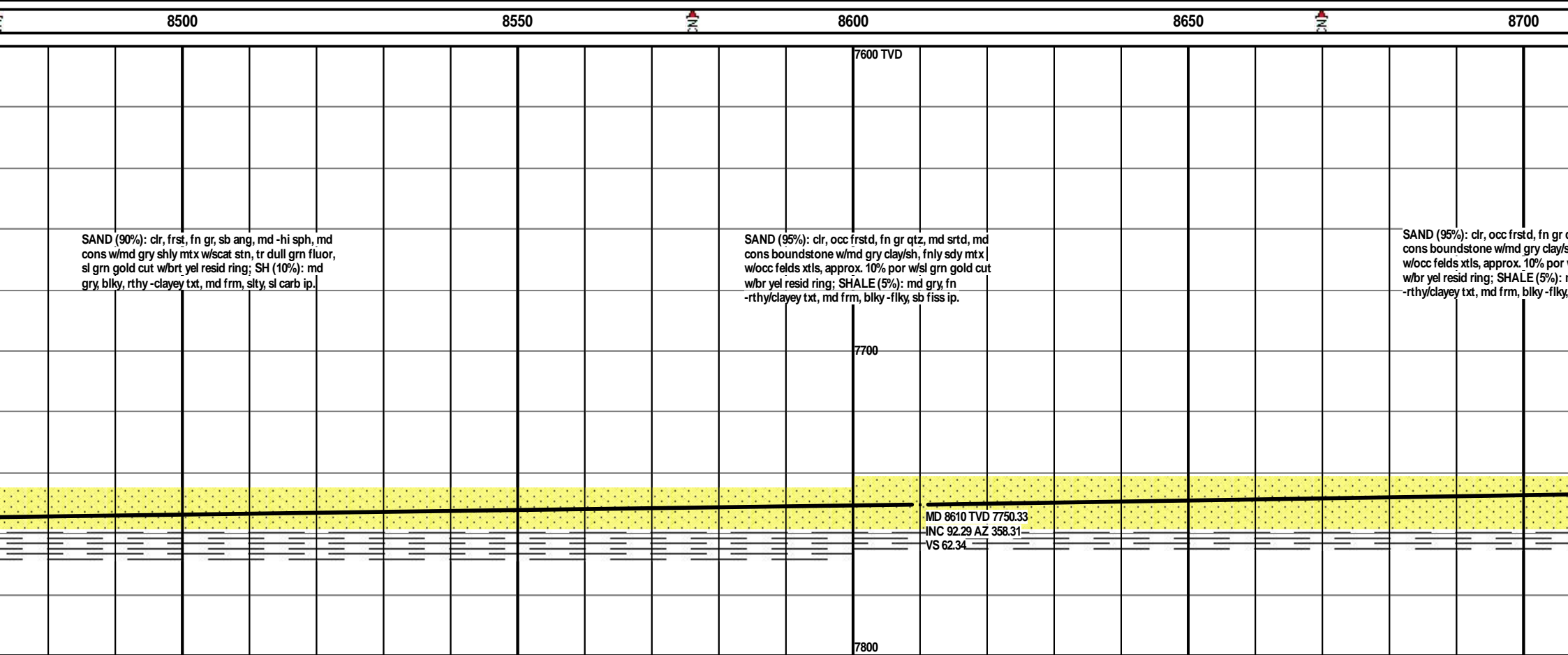
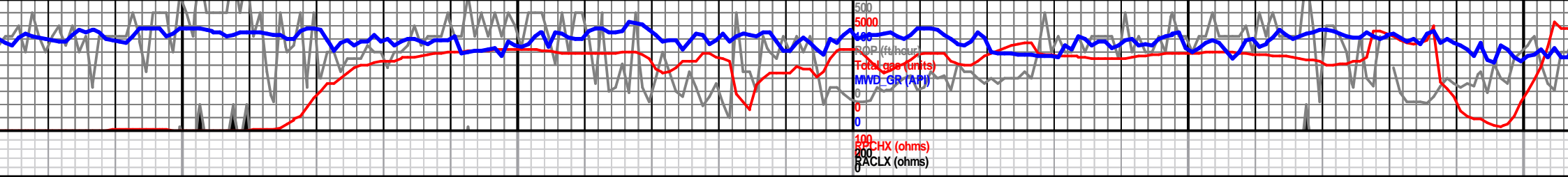


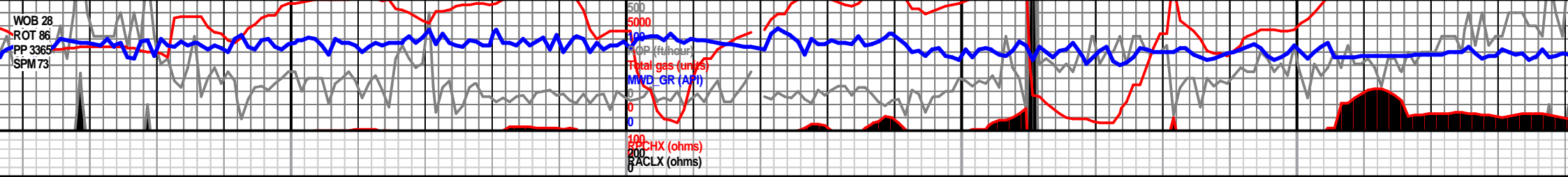




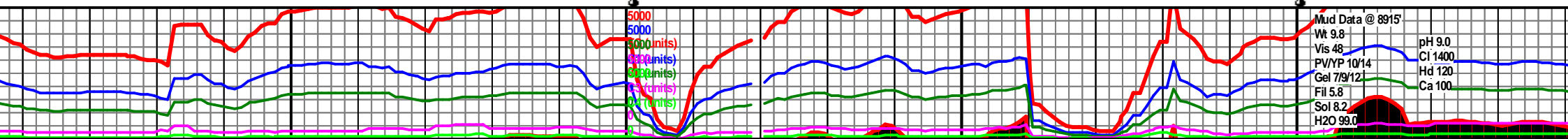
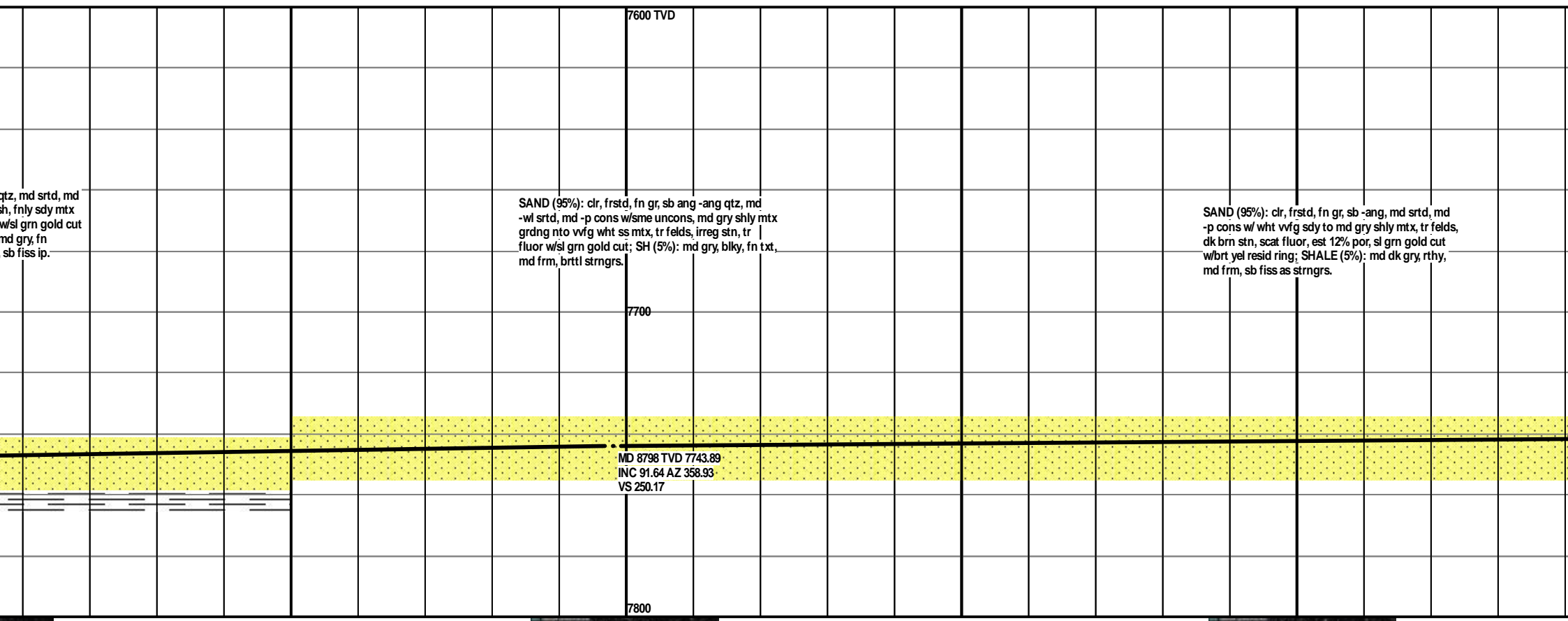
8050 8100 8150 8200

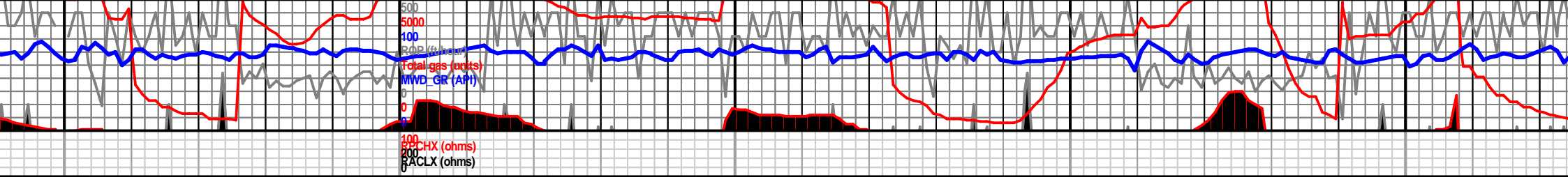






8750 8800 8850 8900





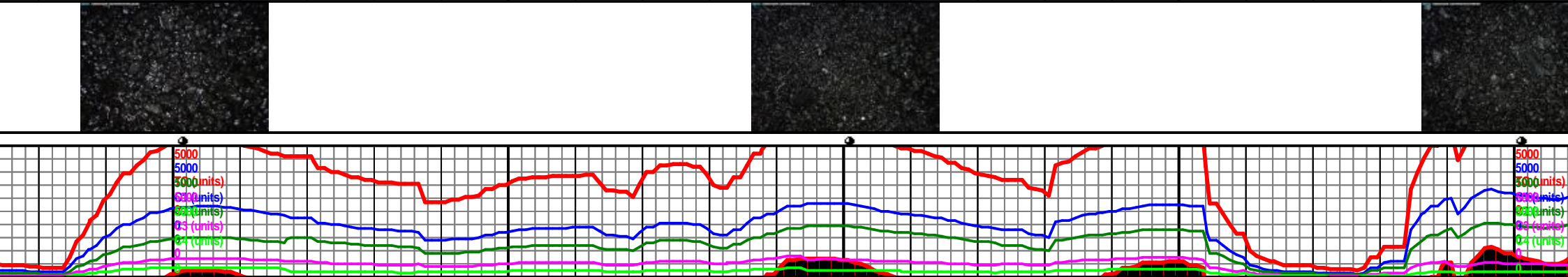
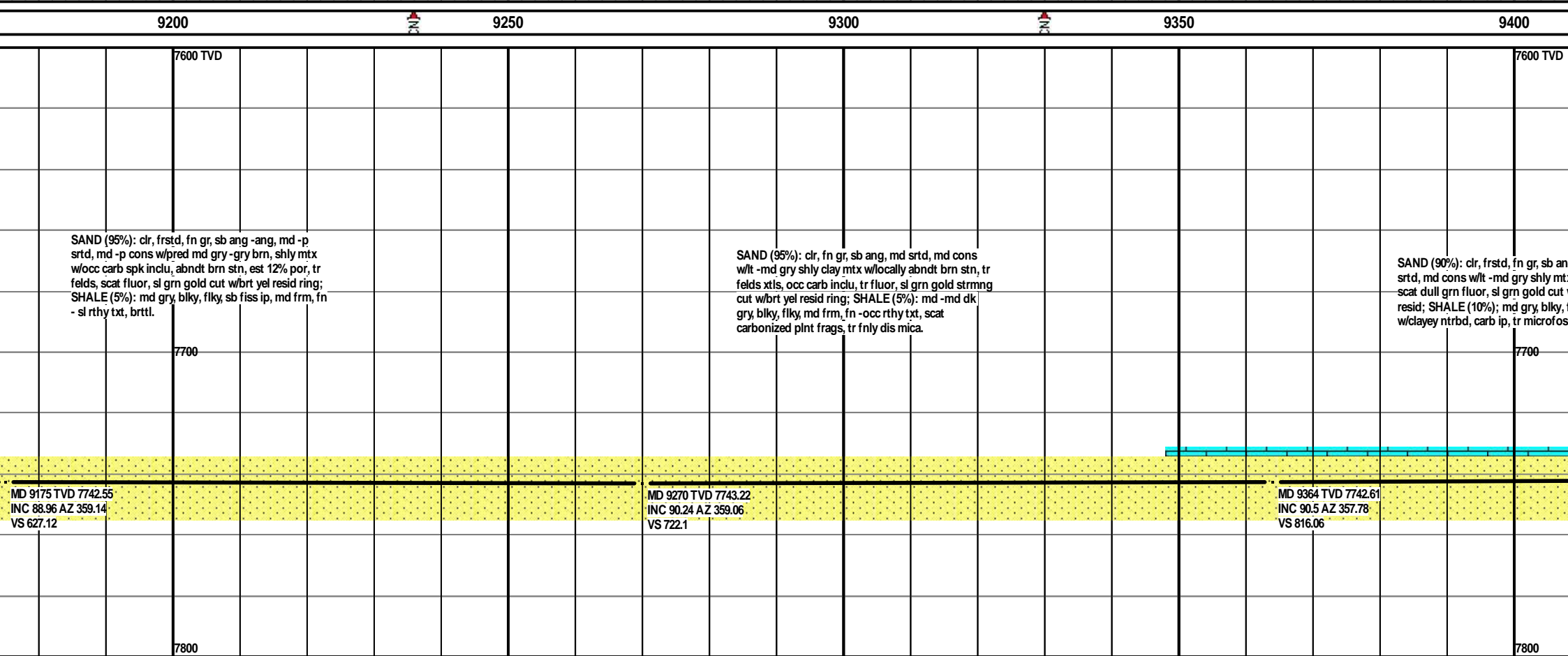
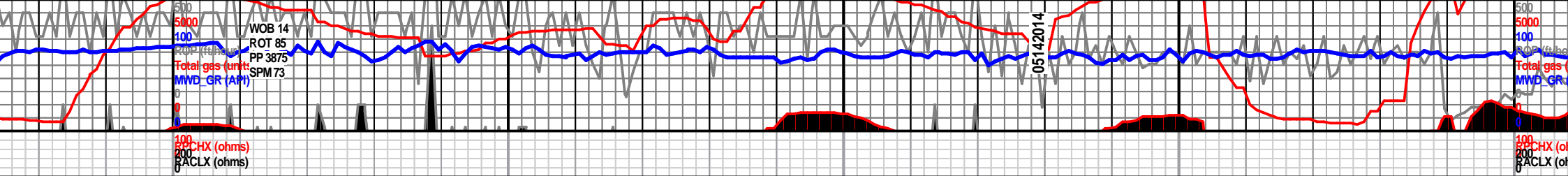
8950 9000 9050 9100 9150

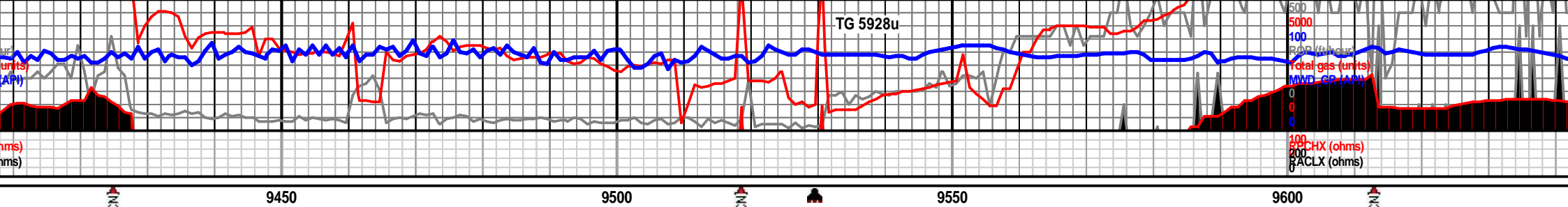
SAND (100%): pred clr, fn gr, md -p srt'd, md -p
cons w/sdy -shly mt'x w/abnd't brn stn, scat fluor
w/solv, sl, strgn grn gold cut w/yel resid; tr md gry,
blky, flky, rthy shale; tr crm ls.

SAND (95%): clr, frstd, fn gr, sb ang -ang, md -p
srt'd, md -p cons w/pred md gry -gry brn, shly mt'x
w/occ carb spk inclu, abnd't brn stn, est 12% por, tr
felds, scat fluor, sl grn gold cut w/b't yel resid ring;
SHALE (5%): md gry, blky, flky, sb fiss ip, md frm, fn
- sl rthy txt, brttl.

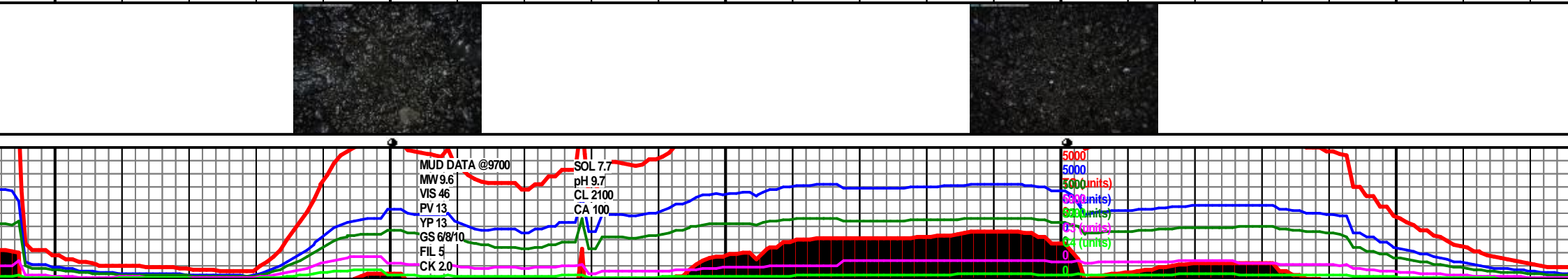
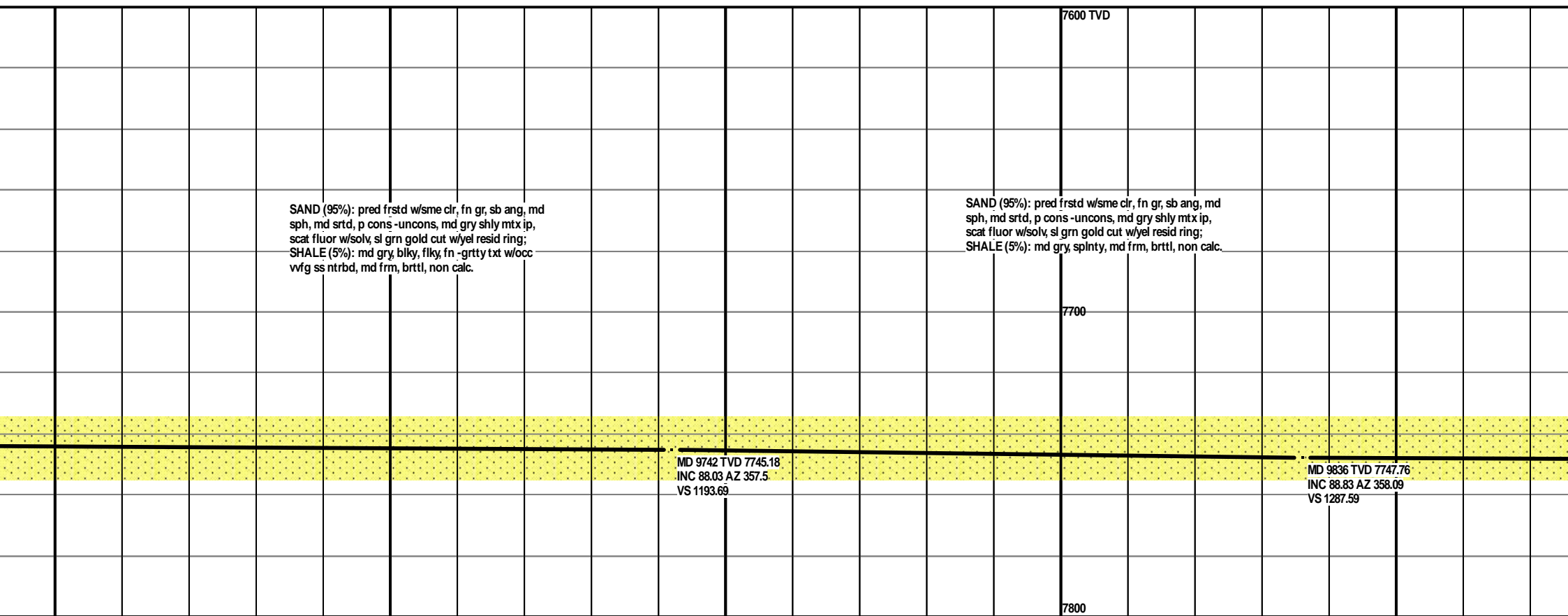
MD 8987 TVD 7741.01
INC 90.1 AZ 0.27
VS 439.13

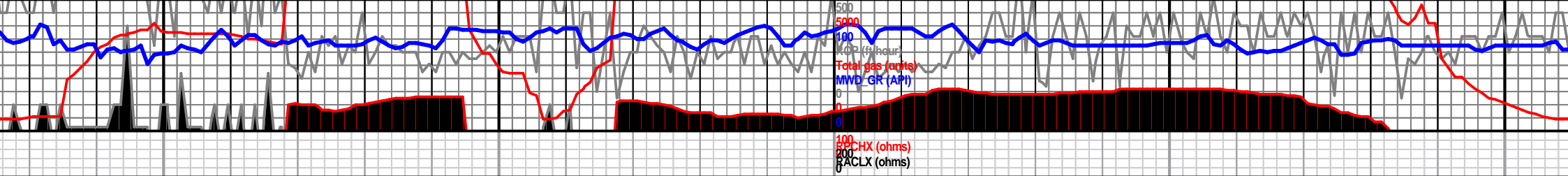
MW IN/OUT 9.7+9.8+
VIS IN/OUT 43/42





										7600 TVD																			
										TOOH FOR NEW BIT/BHA –MAY 14, 2014 AT 7:30 AM																			
										Difficulty sliding																			
										SAND (60%): clr, fn gr, sb ang, md -p srted, md cons w/clr -md gry clay/shale mtx w/irreg brn stn, scat carb inclu, tr fluor, fair grn gold cut w/brt yel resid; LIMESTONE (10%): lt crm gry micrite w/partial resolution & scat vug por; SHALE (30%): md gry, flky, fn -grtty txt, md frm -frm/brittll, fnly mica, non calc.																			
										SAND (95%): clr, frstd, fn gr, ang -sb ang, md -p srted, md cons w/wht -md gry brn, clayey shale mtx w/abndt clary pellet inclu, 7-10% est. por, tr dull grn fluor w/sl grn gold cut w/yel resid ring; SHALE (5%): md gry, flky, splnty, md frm, brittl w/grtty txt, fnly mica.																			
										7700																			
										MD 9459 TVD 7741.72 INC 90.57 AZ 357.73 VS 910.99																			
										7800																			





9900

9950

10000

10050

10100

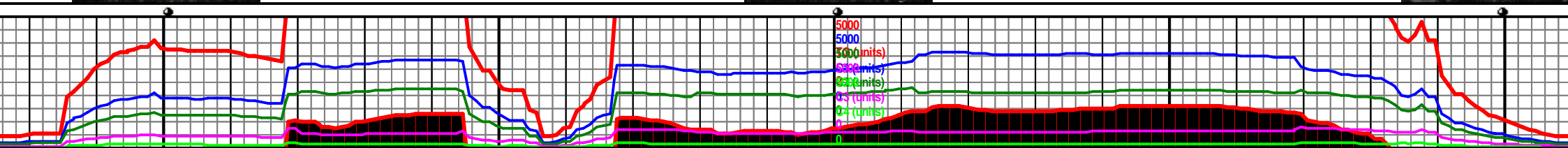
SAND (90%): frstd, clr, fn gr, md -wl srtd, md cons w/md -md dk gry brn, v shly mtz, tr felds, tr fluor, sl grn gold cut w/brt yel resid ring; SHALE (10%): md dk gry, blk, fn -sb rthy txt w/sl greasy appear, carb, md frm, non calc.

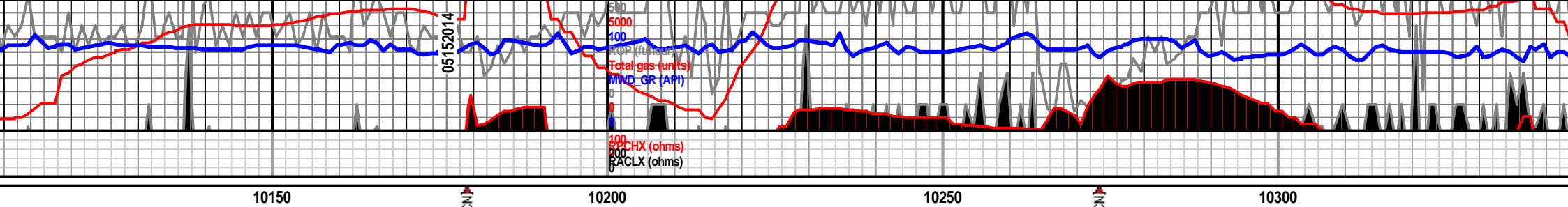
SAND (95%): clr, frstd, fn gr, md -wl srtd, md cons w/md -dk gry, gry brn, shly mtz w/locally abndt stn, scat dull grn fluor, sl grn gold cut w/brt resid ring, est. 10-12% por; SHALE (5%): md dk gry, fn txt, splnty, frm -md frm, brit, abndt carb ip.

SAND (95%): frstd, clr, fn gr, sb a srtd, md sph, md -p cons w/abndt brn, v slty mtz w/occ carb ntrbd, s even brn stn, dull grn fluor w/sl, w/brt yel resid ring; SHALE (5%): flky, splnty, grtty txt, md frm, brit

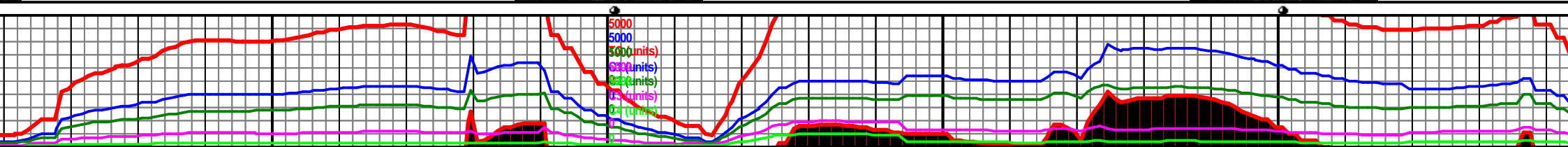
MD 9930 TVD 7748.58
INC 90.17 AZ 358.46
VS 1381.54

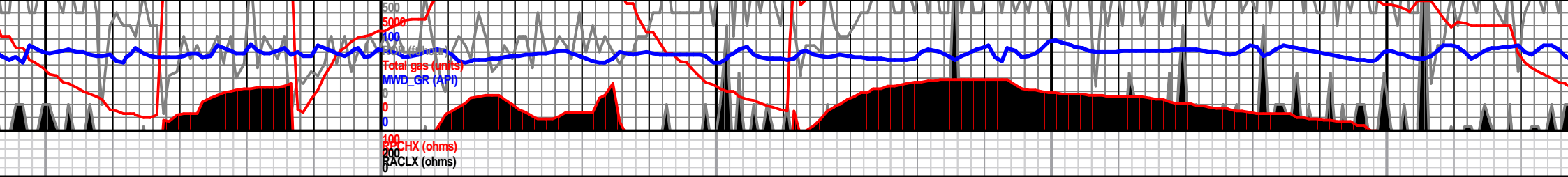
MD 10024 TVD 7747.84
INC 90.74 AZ 359.09
VS 1475.51





7600 TVD																			
SAND (95%): frstd, clr, fn gr, sb ang -ang, md -p srtd, md sph, md -p cons w/abndt uncon, md gry brn, v slty mtz w/occ carb ntrbd, scat clay pellets, even brn stn, dull grn fluor w/sl, strong grn gold cut w/brt yel resid ring; SHALE (5%): lt -md gry, gry brn, flky, splnty, grtty txt, md frm, britt.																			
7700																			
MD 10118 TVD 7746.55 INC 90.84 AZ 358.14 VS 1569.48										MD 10212 TVD 7745.89 INC 89.97 AZ 357.58 VS 1663.41									
7800																			



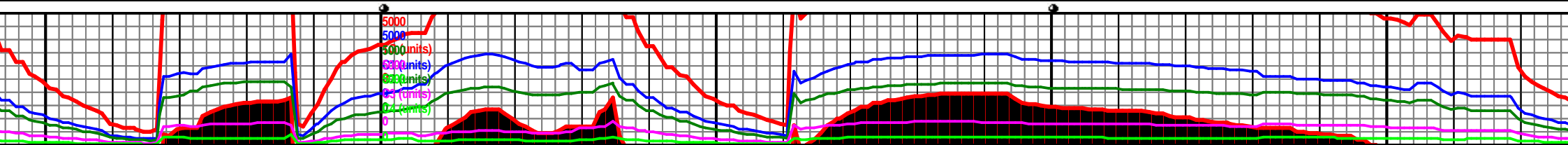


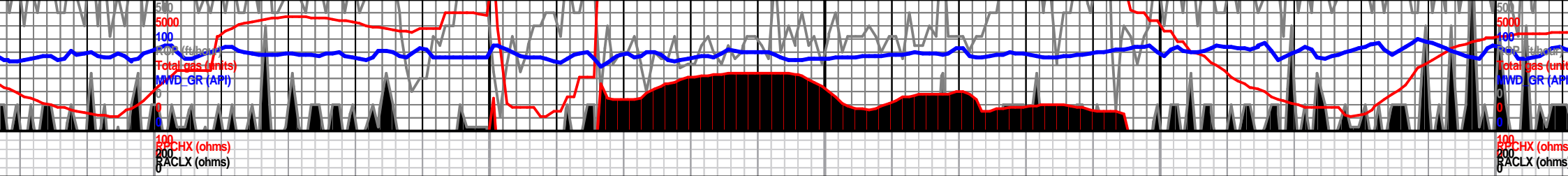
SAND (100%): cl, frstd, fn gr, sb ang -ang, md -lo sph, uncons -p cons w/md gry brn, slty/shly mtx, sl grn gold cut w/yel resid ring; tr shale, tr dirty wht ls.

SAND (100%): frstd, cl, fn gr, md srt, pred uncons, md -lo sph w/occ cs qtz frags, lmy/shly mtx ip w/calc cmt, no vis fluor, md grn gold cut;; tr ls, tr md gry shale.

MD 10401 TVD 7745.12
INC 90.5 AZ 357.65
VS 1852.24

MD 10495 TVD 7744.87
INC 89.8 AZ 359
VS 1946.2





7600 TVD												7600 TVD											
SAND (100%): frstd, clr, fn gr, sb ang -ang, md -wl srt'd, md -hi sph, md cons w/md -dk brn gry, clay-shale mtx w/fn crm clay pellets, carb spks, tr felds, scat dull fluor w/solv & sl grn gold cut w/brt yel resid ring; SHALE (trace): md gry, flky, fn -grtty txt, frm -md frm, brt, non calc.												SAND (100%): frstd, clr, fn gr, sb ang -ang, md -wl srt'd, md -hi sph, md -p cons w/md -dk brn gry, clay-shale mtx, occ wht, vvfg ss mtx, tr dull fluor w/solv, sl grn gold cut w/brt yel resid ring; trace shale.											
7700												7700											
MD 10590 TVD 7745.09 INC 89.93 AZ 358.3 VS 2041.17												MD 10684 TVD 7745.34 INC 89.77 AZ 358.1 VS 2135.12											
7800												7800											

