

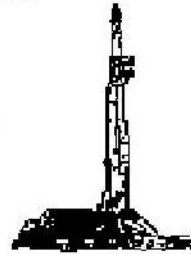
GOOLSBY BROTHERS
and associates, inc.

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: Barclay 15C-26HZ

API: 05123390610000

Location: SWSE Section 14, T2N, R67W

License Number: 2087298

Spud Date: March 21, 2015

Region: Wattenberg, DJ Basin

Drilling Completed: March 27, 2015

Surface Coordinates: SWSE Sec 14 T2N R67W; 577' FSL & 2193' FEL

Lat N 40.132406 Long W -104.9856438

Bottom Hole Coordinates: SWSE Sec 26 T2N R67W; 530.23' FSL, 1910.24' FEL

Ground Elevation (ft): 4932'

K.B. Elevation (ft): 4942'

Logged Interval (ft): 6950'

To: 17397'

Total Depth (ft): 17397'

Formation: Pierre Shales/Sands, Niobrara, Codell Target

Type of Drilling Fluid: Water & Poly to 6736', LSND 6736'-17397'

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

OPERATOR

Company: Kerr-McGee Oil & Gas Onshore LP

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

Denver, CO 80202

CO Geologist, Ian Harris/Michael Chisam

GEOLOGIST

Name: Brian Spitzmiller & Dan Kabala

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

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

E-logs

MWD GR 6950-17350'

Casing


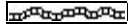
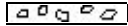

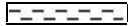

9 5/8" Surface Casing set @ 1123' MD


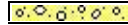




7" Intermediate Casing set @ 7889' MD


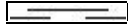




4 1/2" Production Liner hung 3/29/2015, landed @ 17390'





Comments

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal

 Oil sat.
 Congl
 Dol
 Gyp
 Lmst
 Mrlst

 Salt
 Shale
 Shcol
 Shgy
 Ss
 Slst

 Ss
 Chalk
 Carb sh
 Sltly sh

ACCESSORIES

MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtl
	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

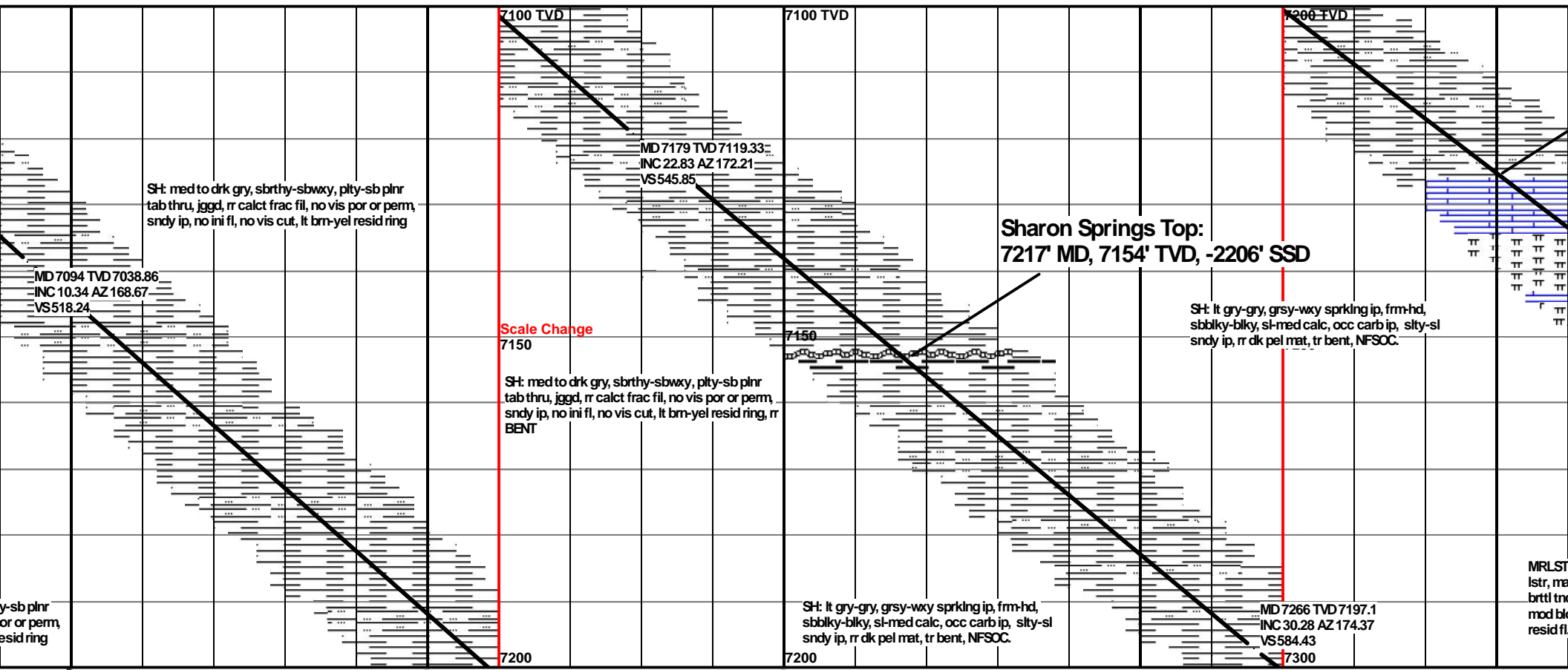
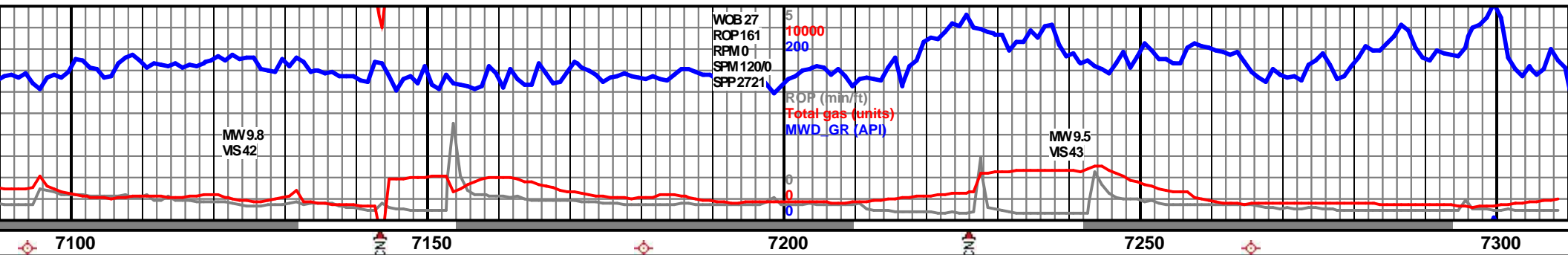
ROUNDING

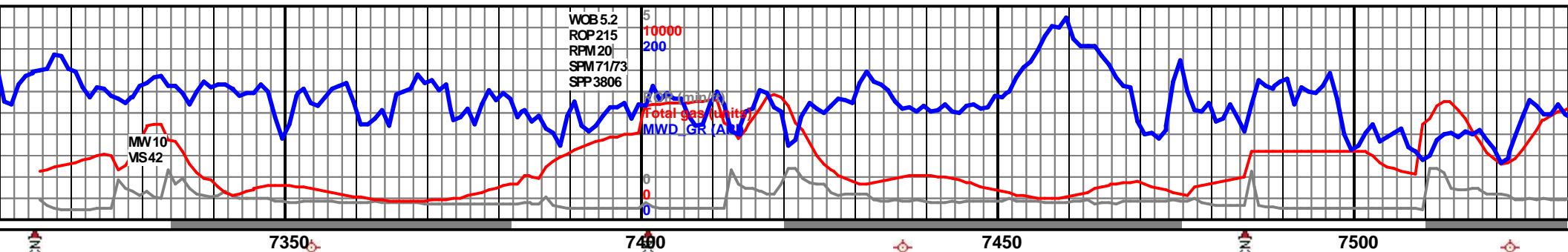
	Rounded
	Subrnd
	Subang

	Angular
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SORTING

	Well
	Moderate
	Poor





Niobrara Top:
7301' MD, 7227' TVD -2279' SSD

MRLSTN(50%): med - med drk gry, dull - swxy
lstr, matte - smth txt, domblky ctgs, irreg frctr,
brttl tncty, occ smt clk inclns, mttld, no ini fl,
mod blooming wht cut, no vis cut, fnt yllw-brwn
resid fl. CHLK(50%). Bent (tr).

Niobrara B CHALK:
7372' MD, 7284' TVD, -2336' SSD

MD 7352 TVD 7268.08
INC 38.34 AZ 175.2
VS 632.63

N(60%): med - med drk gry, dull - swxy
matte - smth txt, domblky ctgs, irreg frctr,
cty, occ smt clk inclns, mttld, no ini fl,
blooming wht cut, no vis cut, fnt yllw-brwn
SH(10%) CHLK(30%)

CARB CHLK(70%): lt med-med drk gry, highly
mttld wltr cm micro spcks, chiky-v rthy txt,
sbbky occ sbfiss ip, mstly frm, sl crmbly, no ini
flur, slw-mod good whi blooming cut, mod ylw
resid mg fl.MRLSTN (30%), vry abn bent SH
wpyr nod.

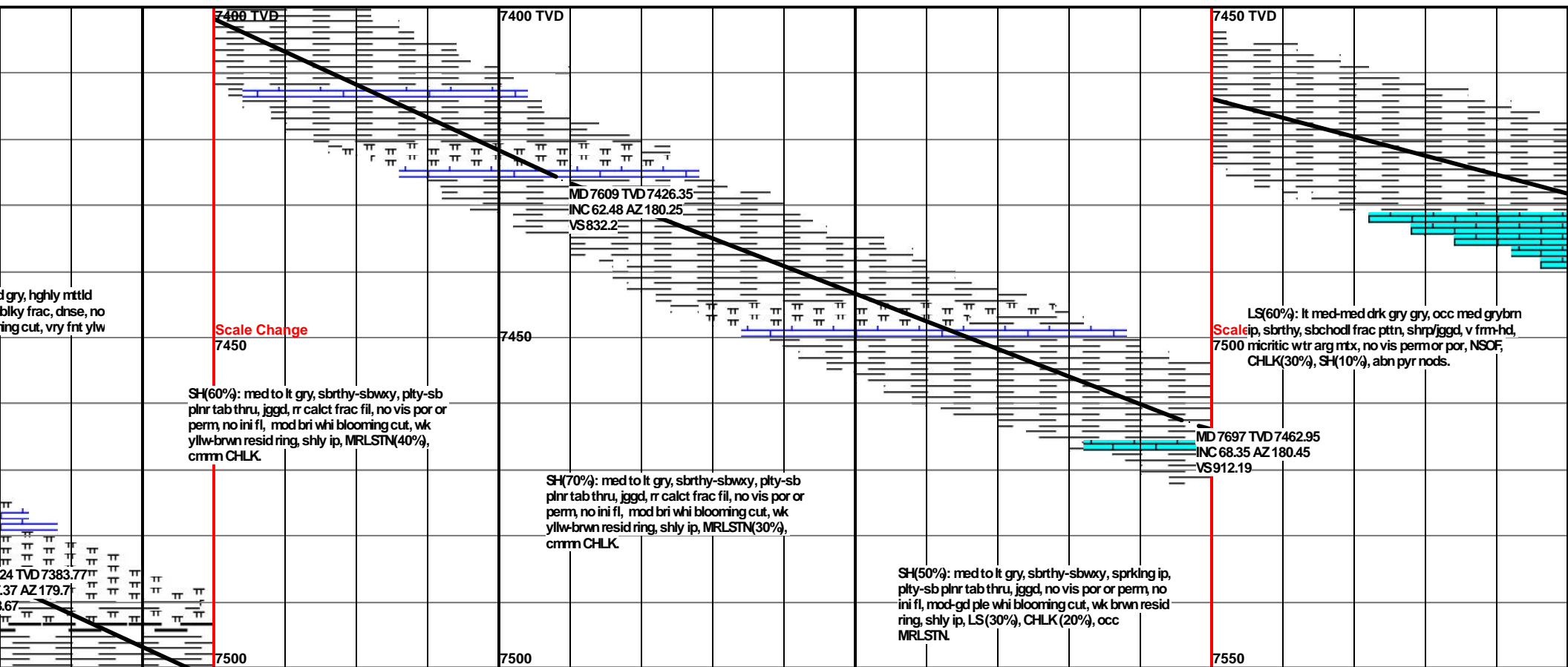
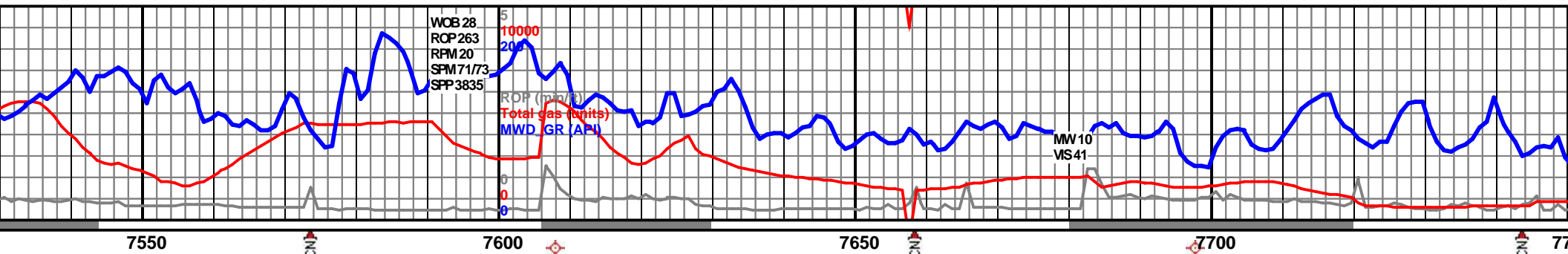
Niobrara C CHALK:
7464' MD, 7348' TVD, -2400' SSD

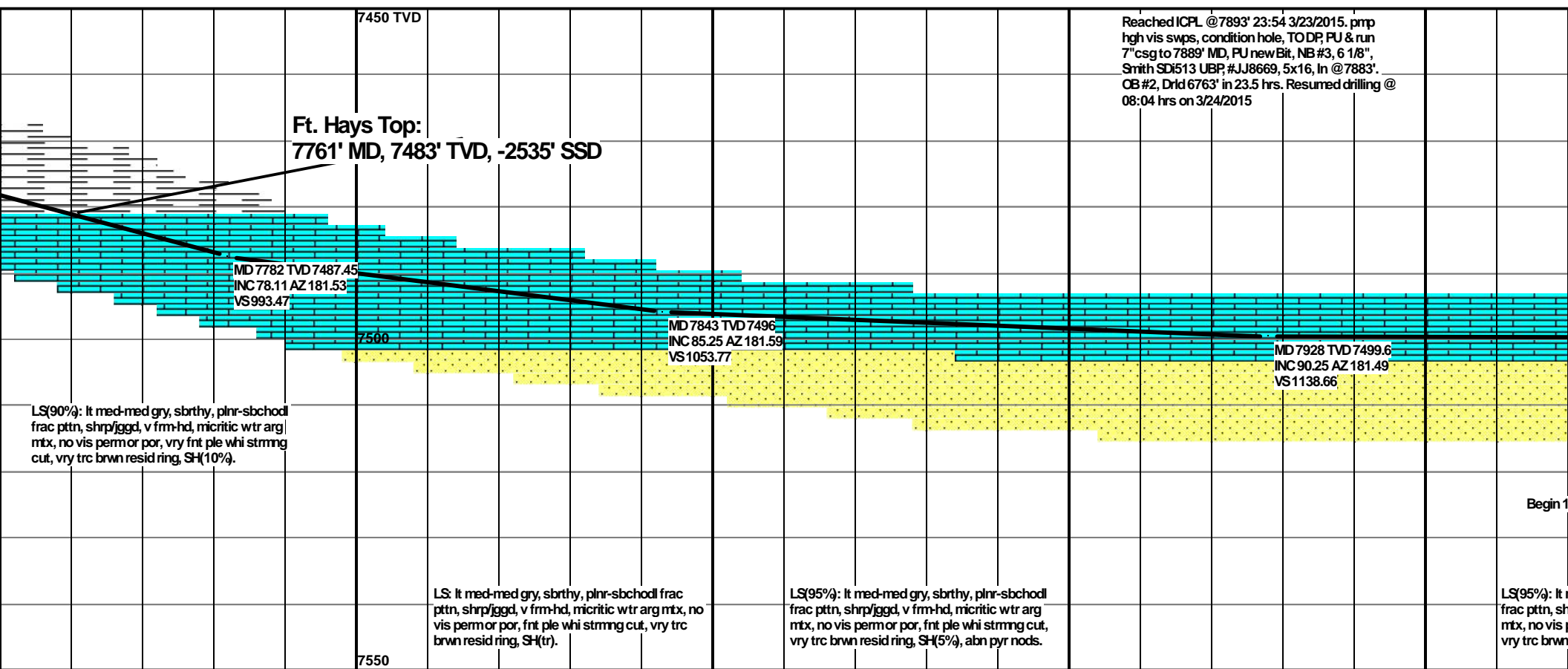
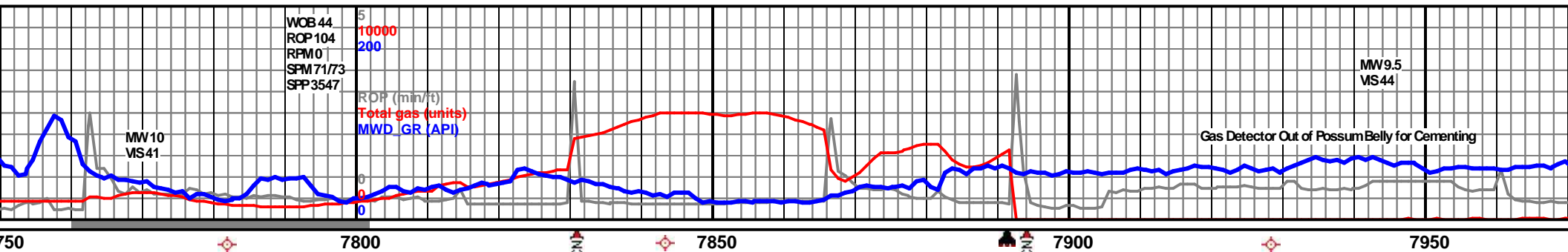
MD 7437 TVD 7330.51
INC 47.02 AZ 177.61
VS 690.06

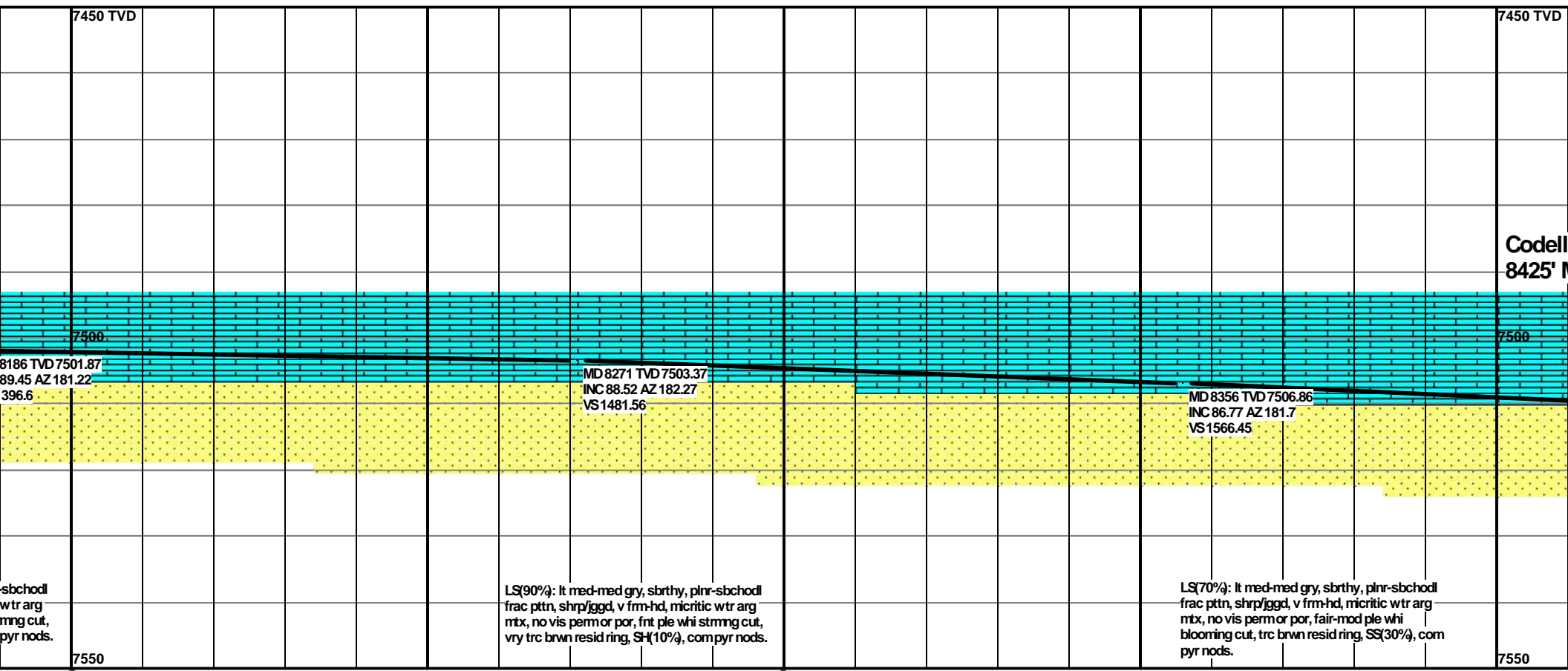
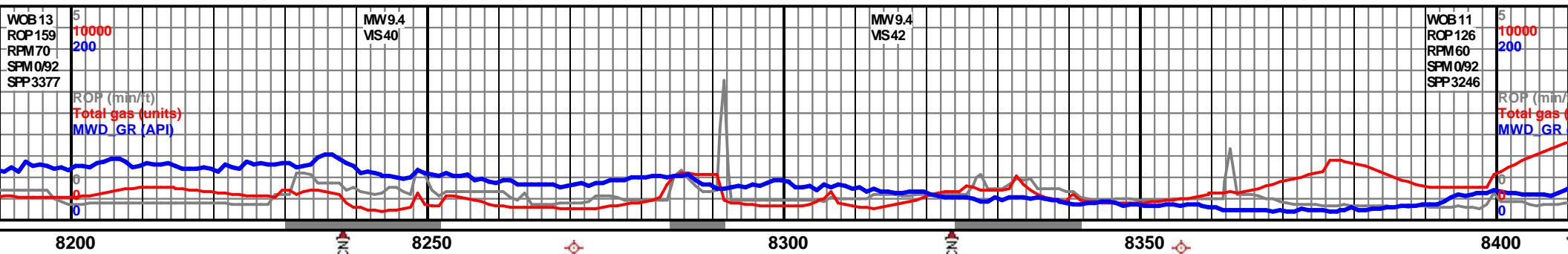
CARB CHLK(80%): lt med-med
(microIn), chiky-v rthy txt, sb
ini flur, slw-wk-mod whi bloom
resid mg fl.SH (20%)

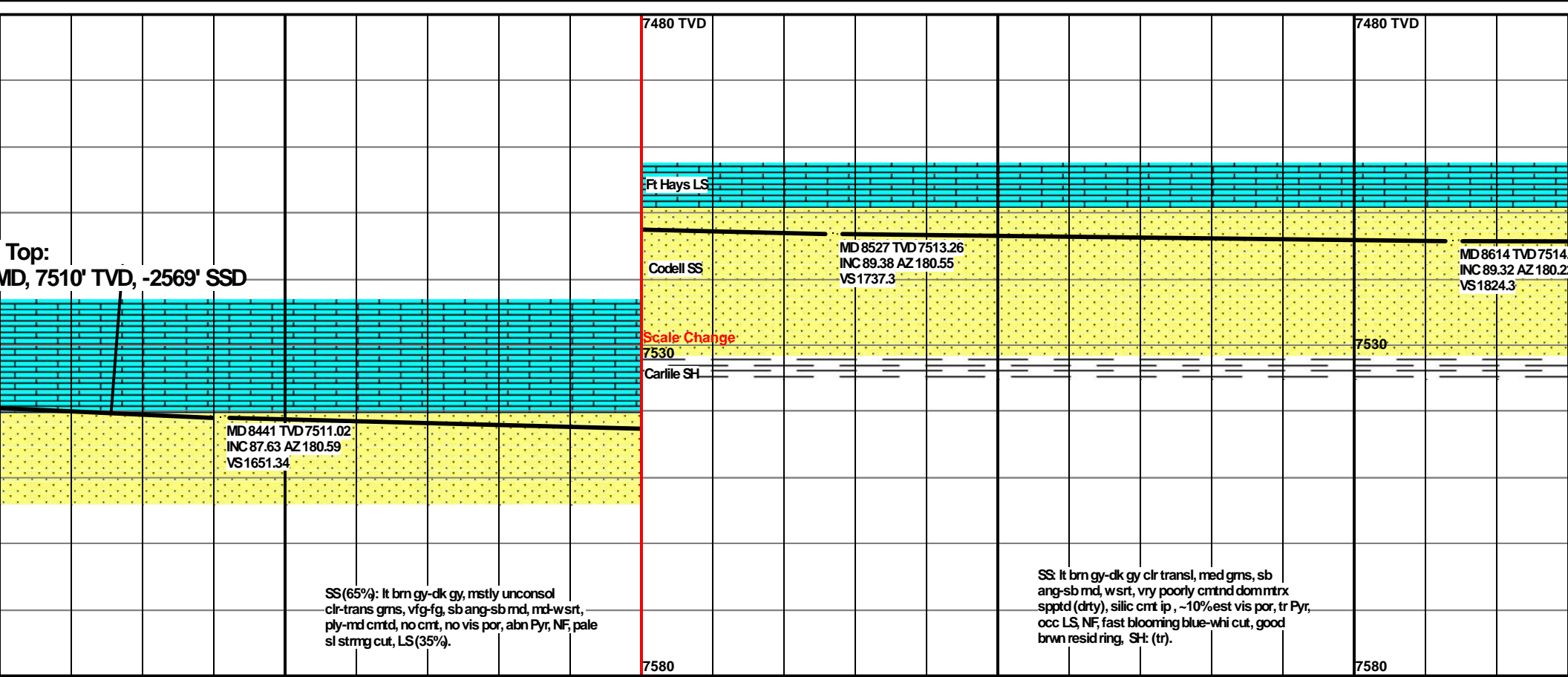
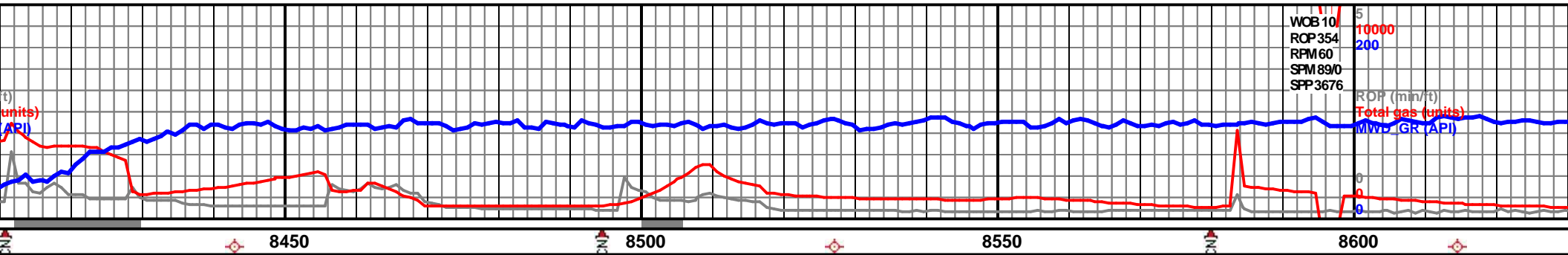
CARB CHLK(50%): lt med-med drk gry, highly
mttld, chiky-v rthy txt, sbbky occ sbfiss ip,
mstly frm, sl crmbly, no ini flur, slw-mod good
whi blooming cut, mod ylw resid mg fl.MRLSTN
(50%).

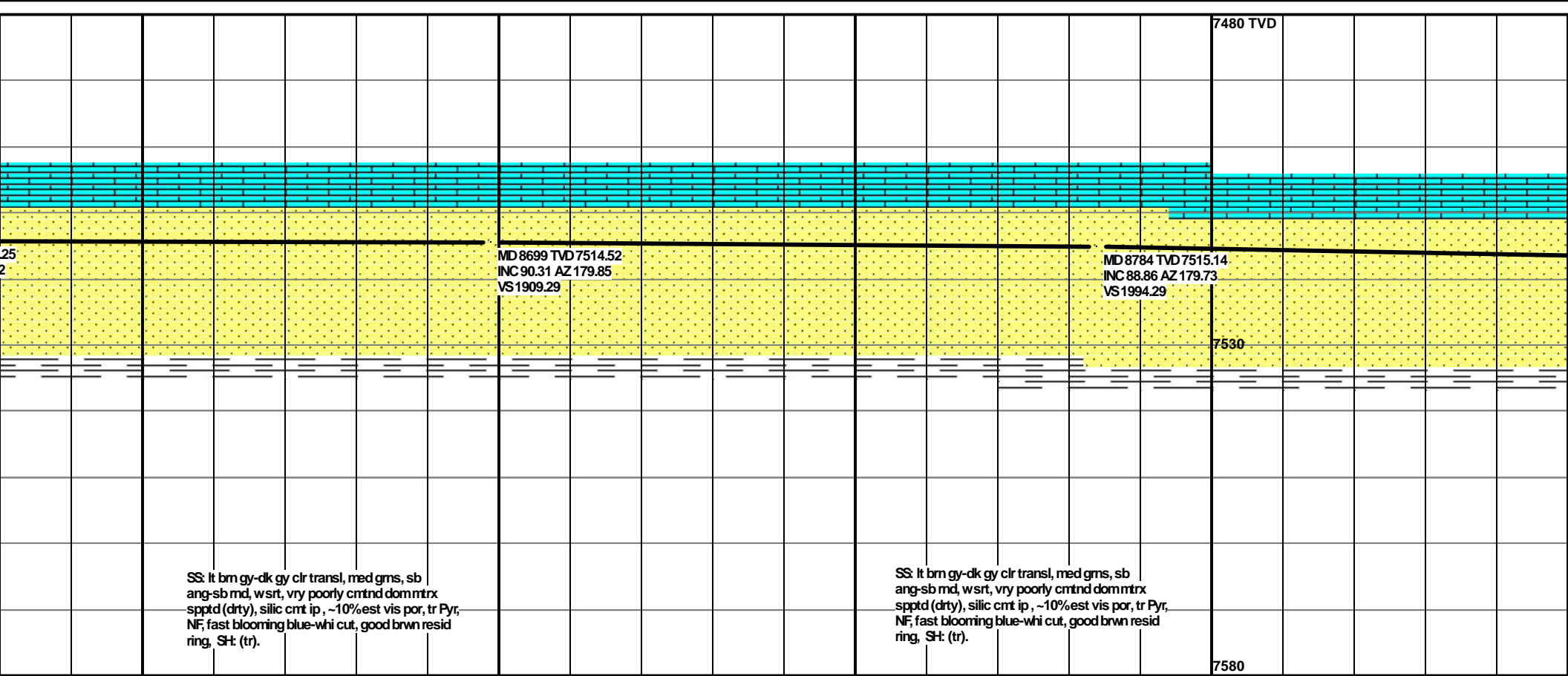
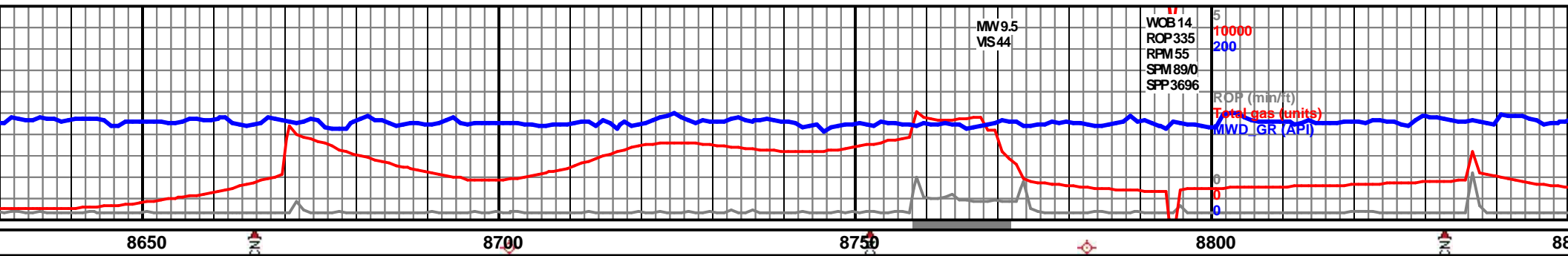


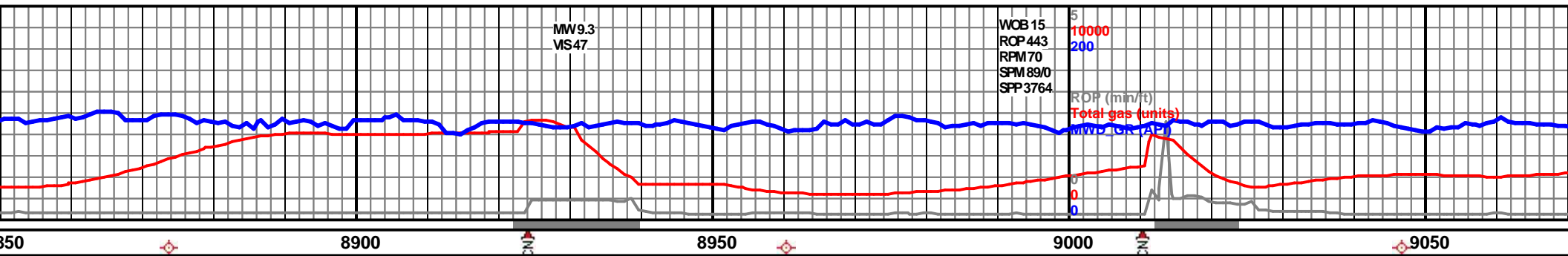






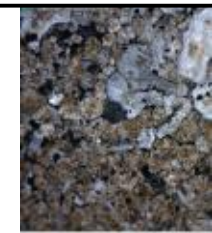
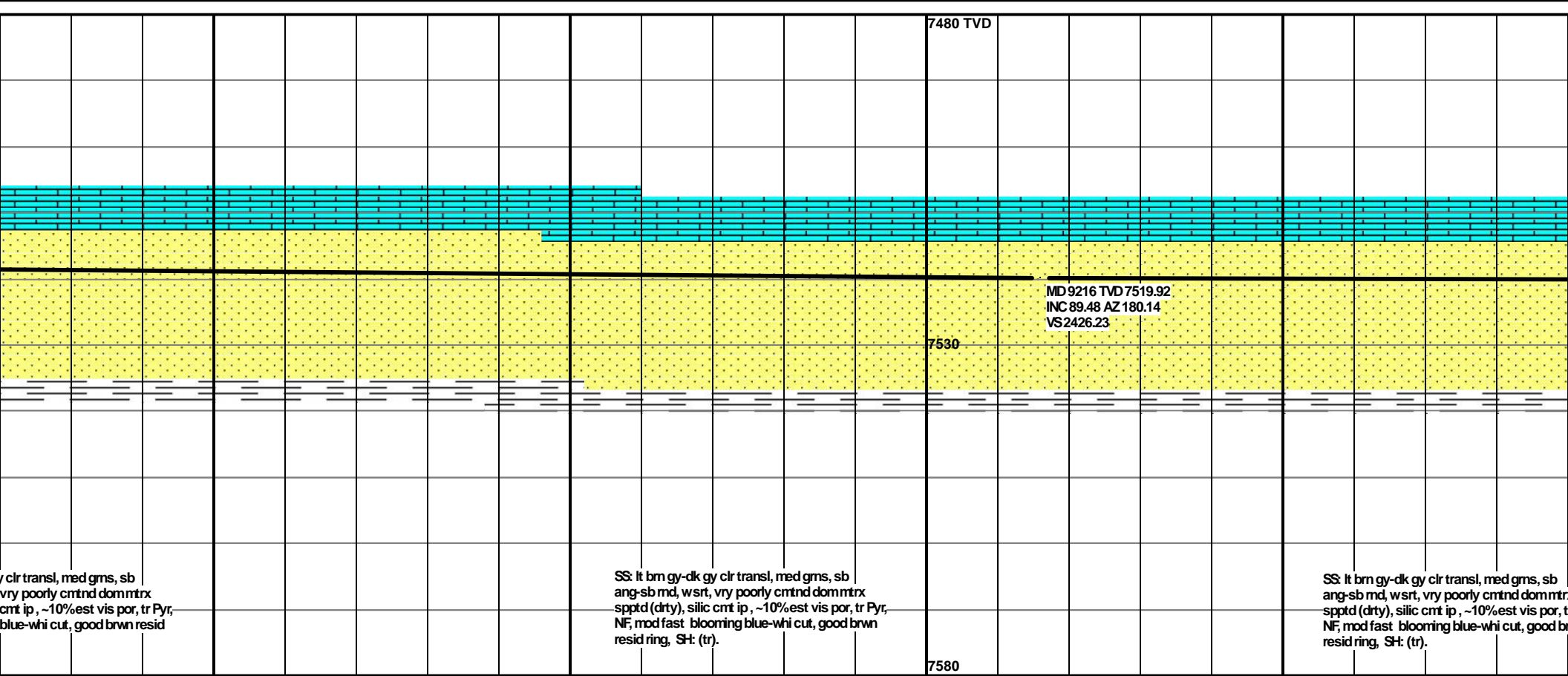
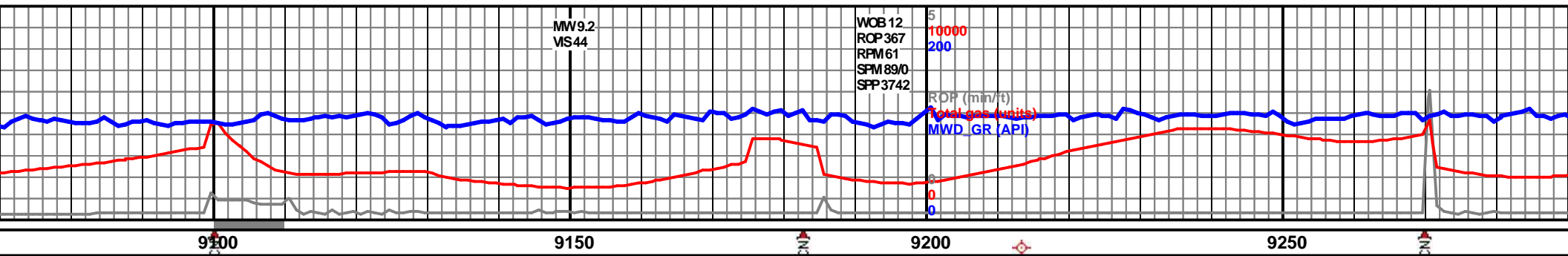


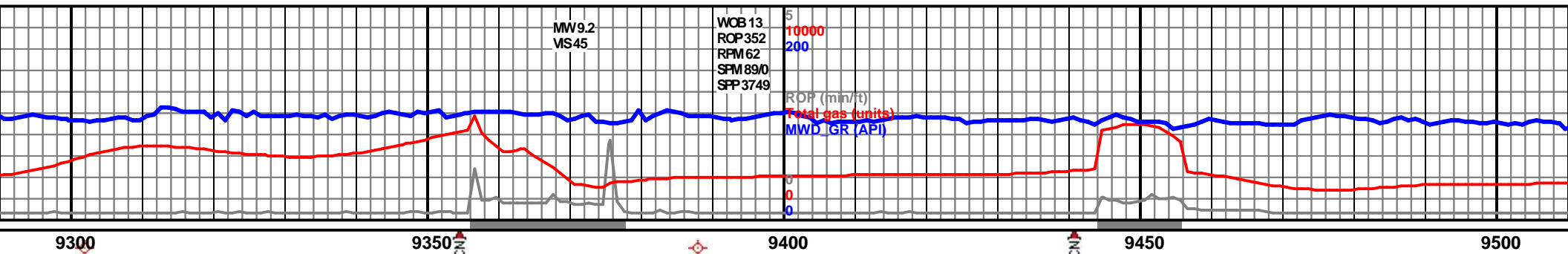




			7480 TVD	
MD 8871 TVD 7516.82 INC 88.92 AZ 179.42 VS 2081.26		MD 8958 TVD 7517.81 INC 89.78 AZ 180.64 VS 2168.25	Ft Hays LS Codell SS 7530	MD 9046 TVD 7518.38 INC 89.48 AZ 181.4 VS 2256.24
SS: lt brn gy-dk gy clr transl, med gms, sb ang-sb md, wsrt, vry poorly cmtnd dom mtrix spptd (dirty), silic cmt ip, ~10% est vis por, tr Pyr, NF, fast blooming blue-whi cut, good brwn resid ring, SH: (tr).		SS: lt brn gy-dk gy clr transl, med gms, sb ang-sb md, wsrt, vry poorly cmtnd dom mtrix spptd (dirty), silic cmt ip, ~10% est vis por, tr Pyr, NF, fast blooming blue-whi cut, good brwn resid ring, SH: (tr).	Carlile SH 7580	SS: lt brn gy-dk gy ang-sb md, wsrt, spptd (dirty), silic NF, fast blooming ring, SH: (tr).

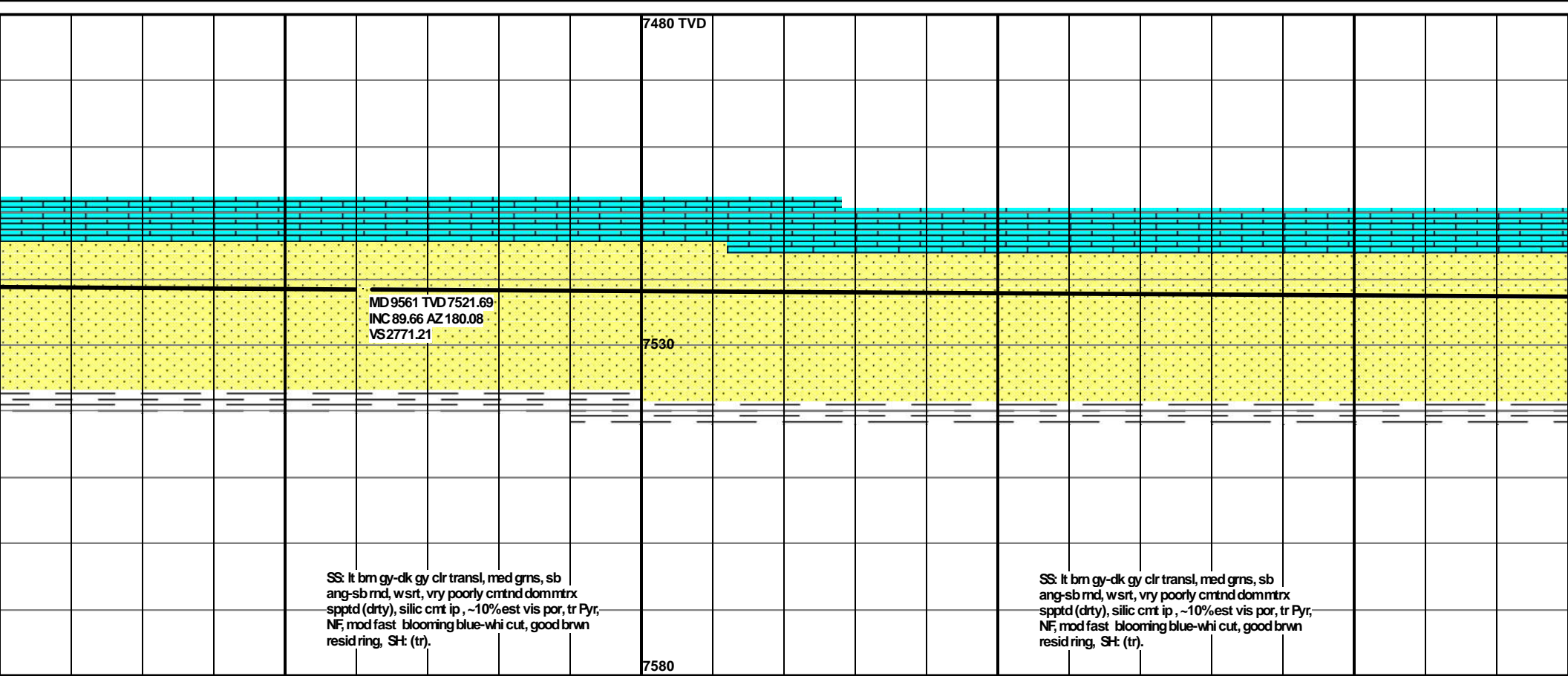
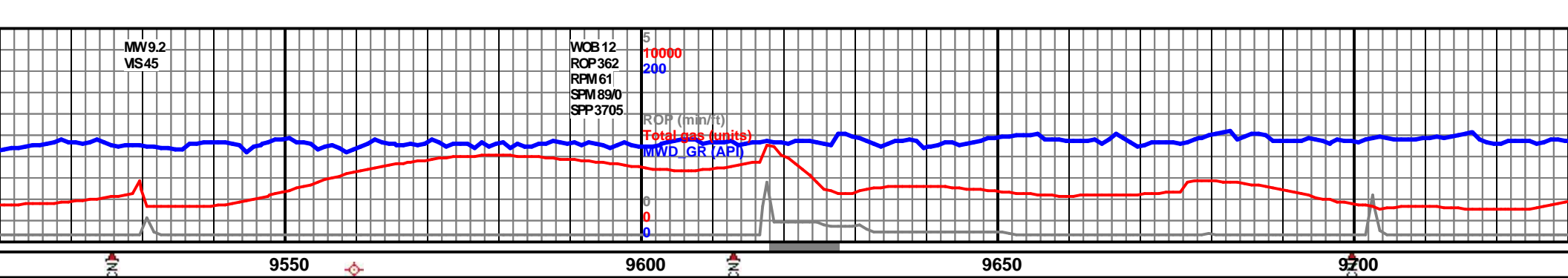


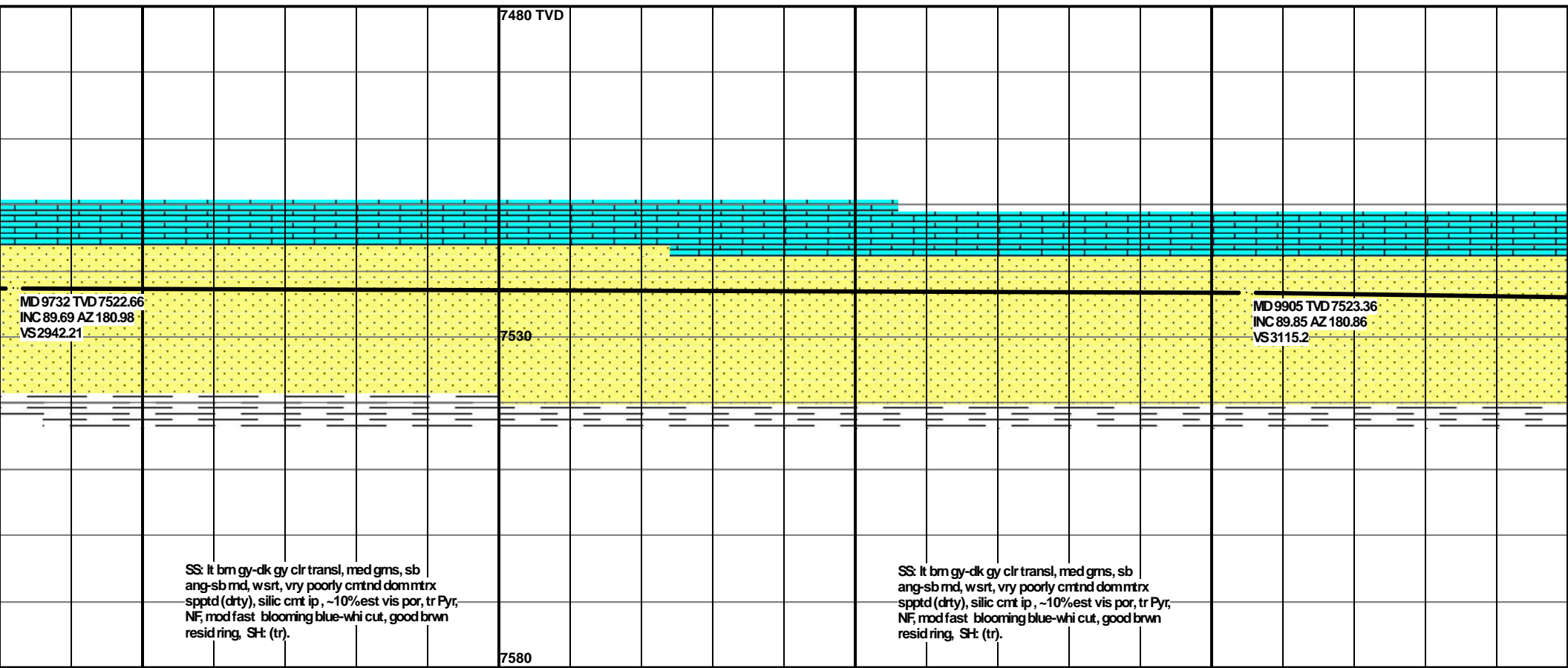
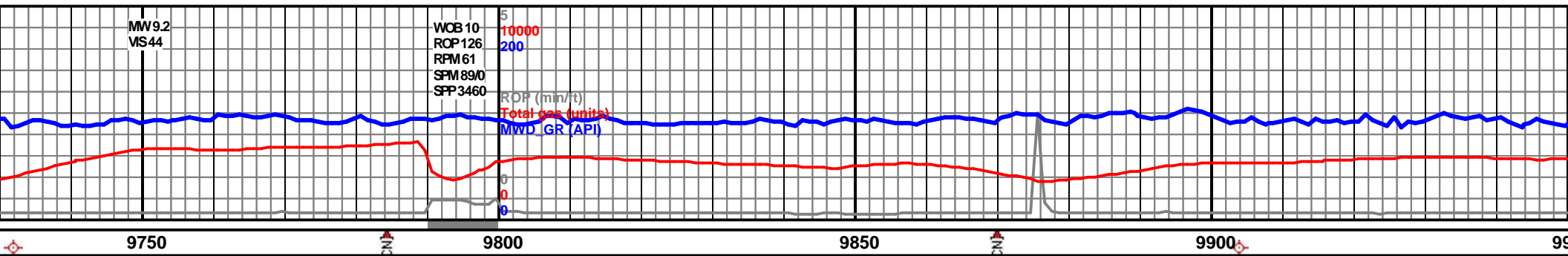


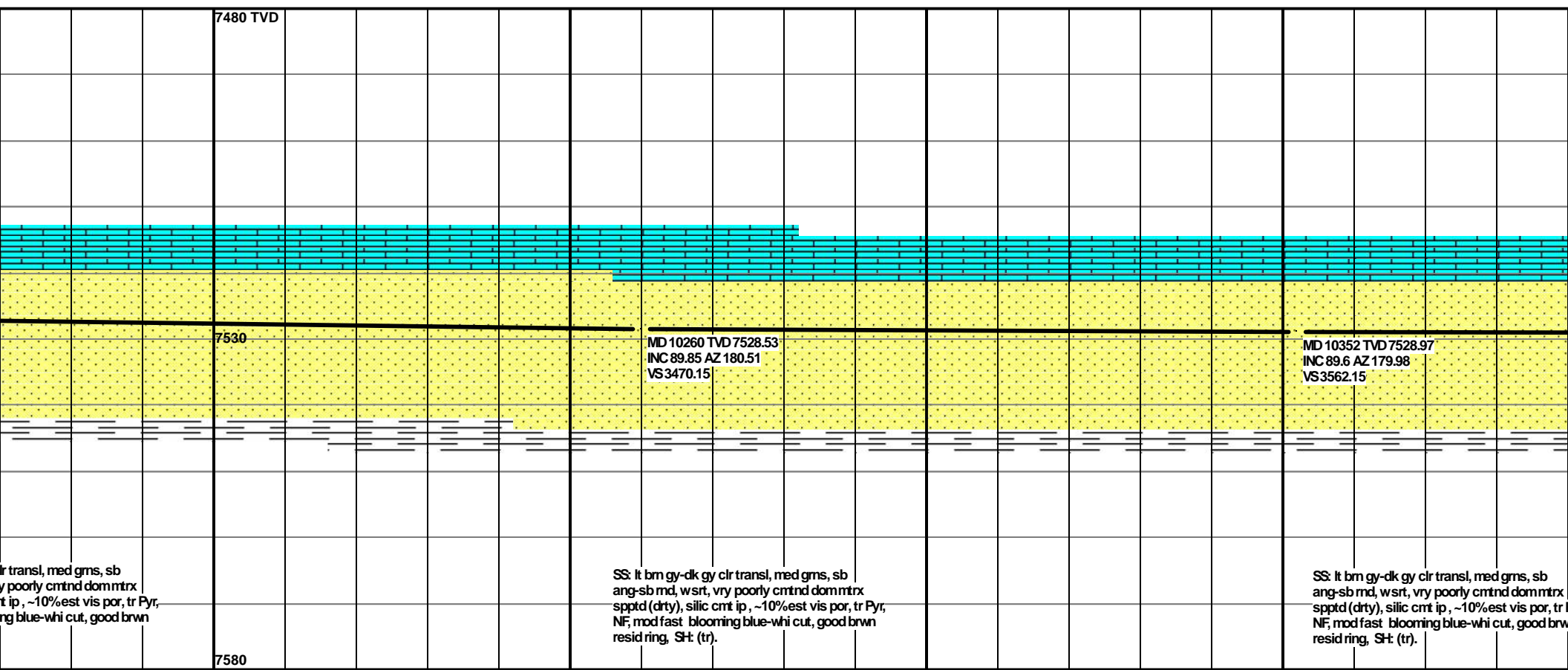
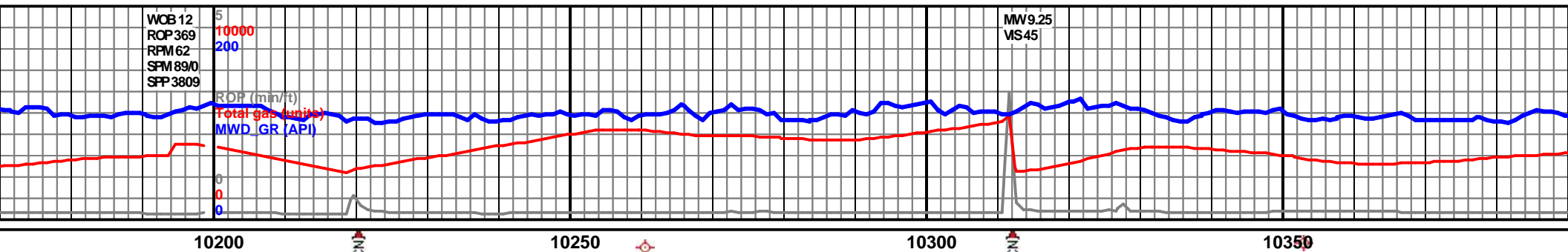


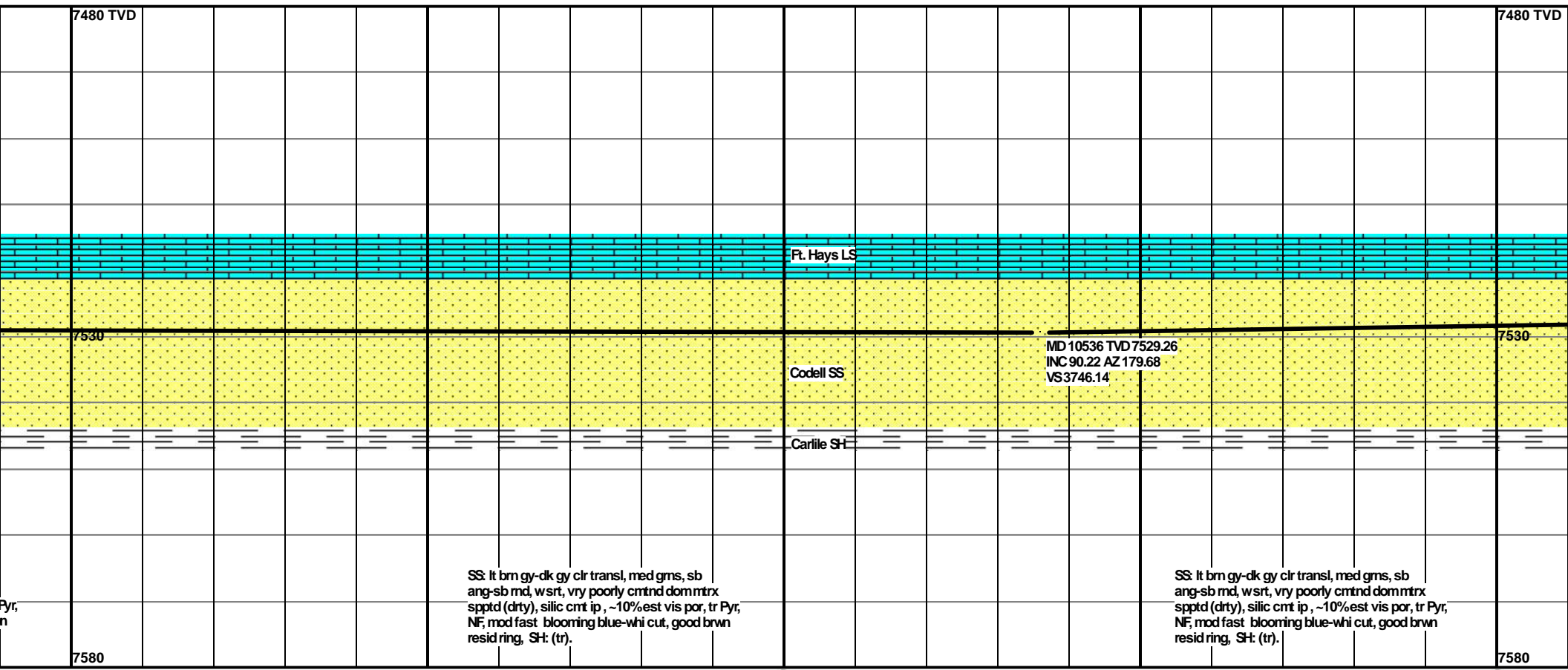
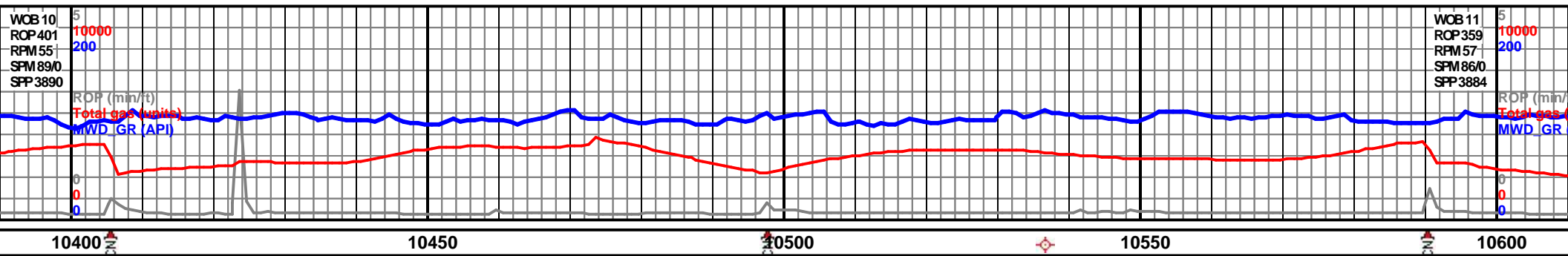
7480 TVD										Ft Hays LS									
MD 9301 TVD 7520.01 INC 90.4 AZ 180.5 VS 2511.23																			
MD 9388 TVD 7520.2 INC 89.35 AZ 181.01 VS 2598.22										Codell SS									
7530																			
										Carlile SH									
SS: lt brn gy-dk gy clr transl, med grms, sb ang-sb md, wsrt, vry poorly cmtnd dom mtrx spptd (dirty), silic cmt ip, ~10% est vis por, tr Pyr, NF, mod fast blooming blue-whi cut, good brwn resid ring, SH: (tr).										SS: lt brn gy-dk gy clr transl, med grms, sb ang-sb md, wsrt, vry poorly cmtnd dom mtrx spptd (dirty), silic cmt ip, ~10% est vis por, tr Pyr, NF, mod fast blooming blue-whi cut, good brwn resid ring, SH: (tr).									
7580																			

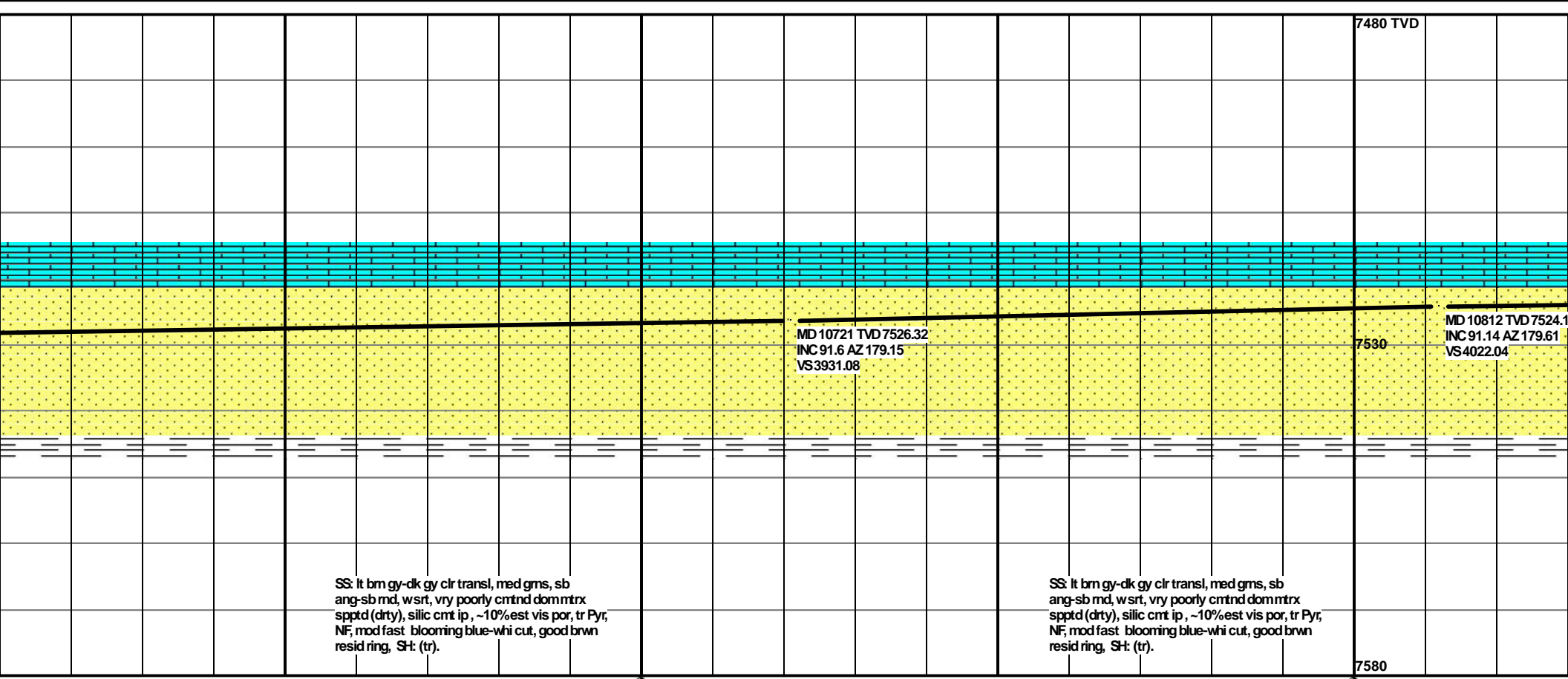
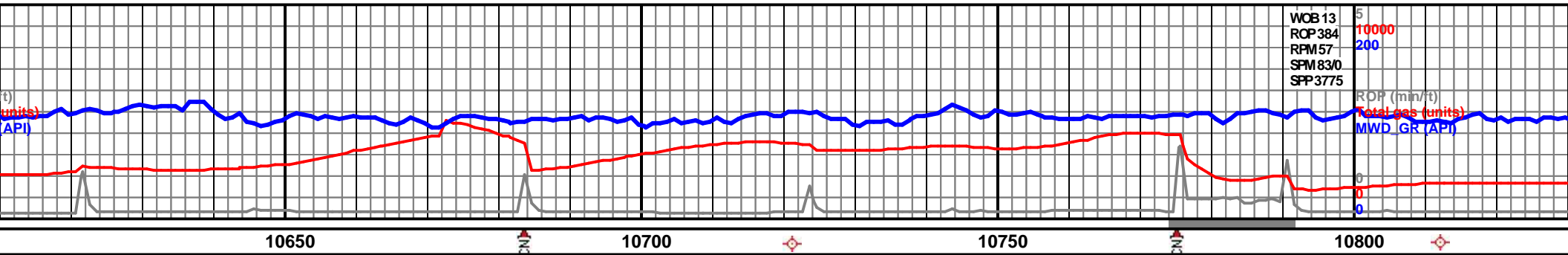


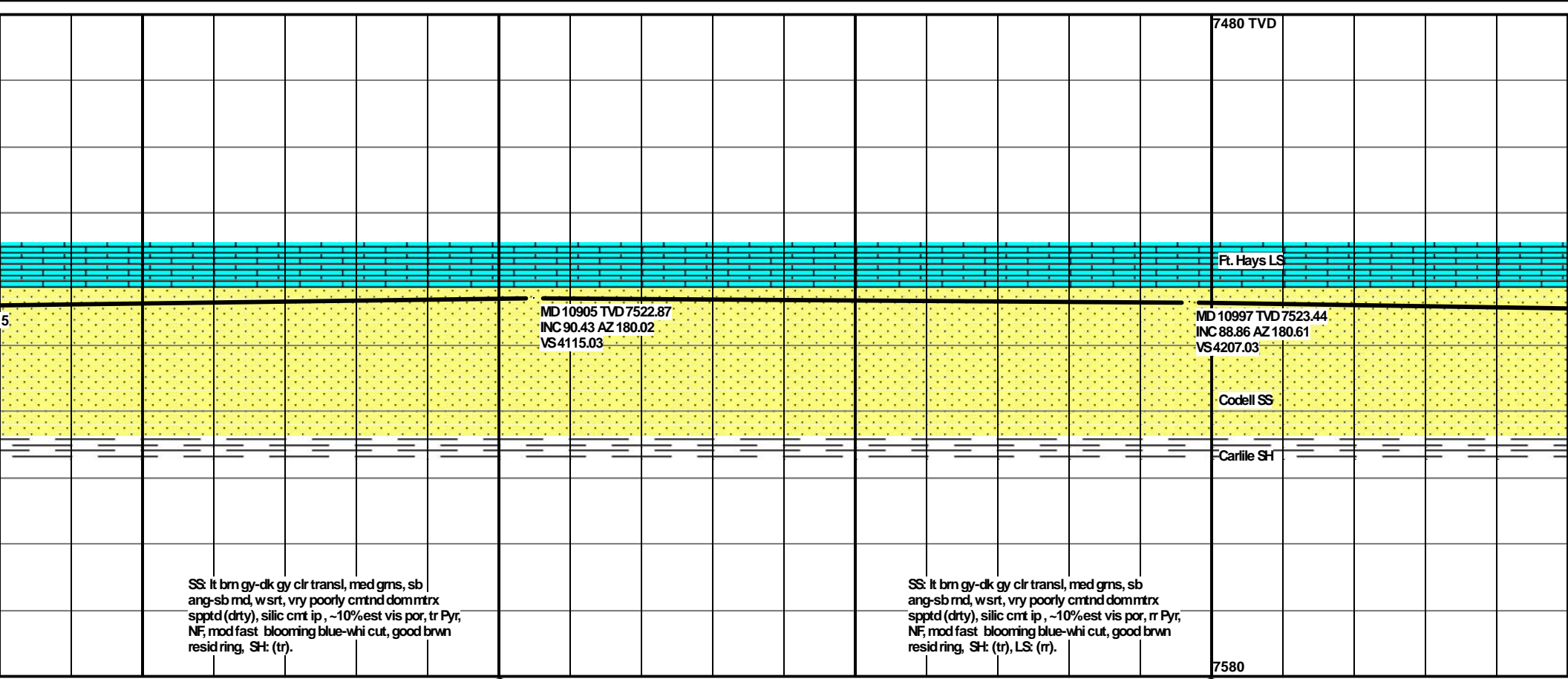
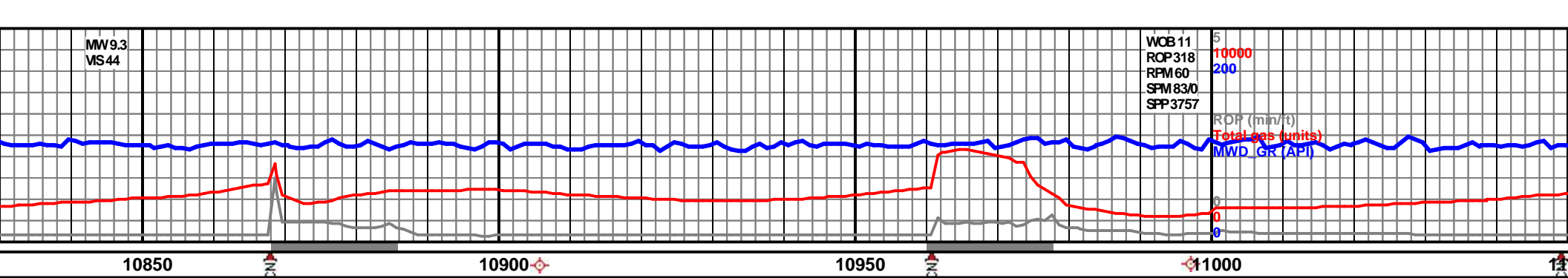


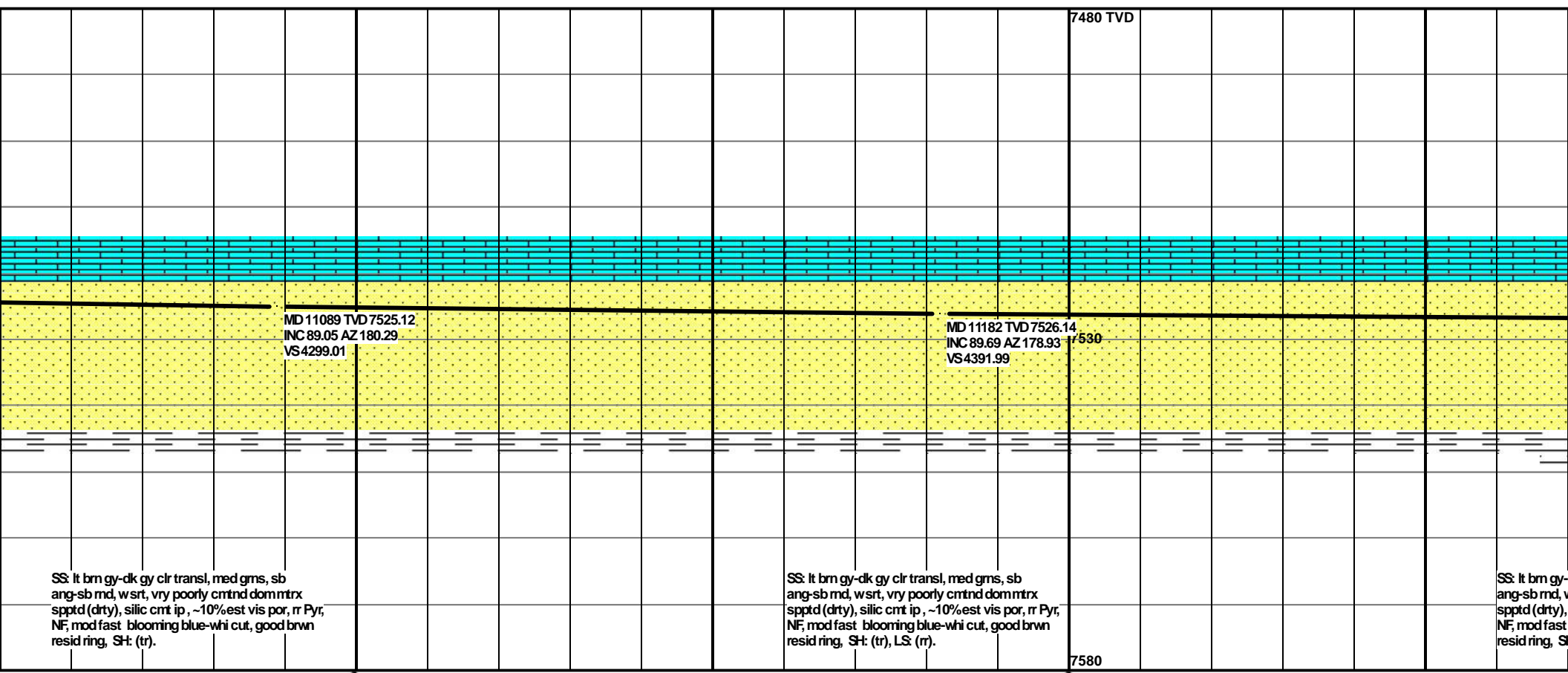
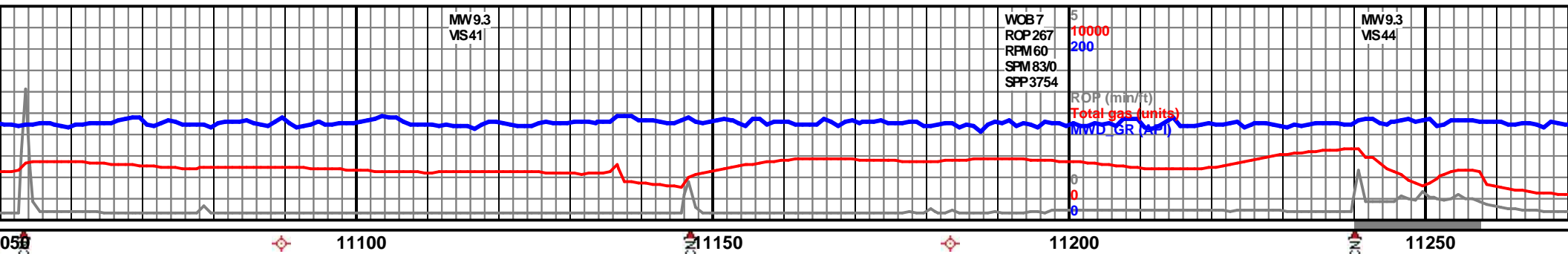


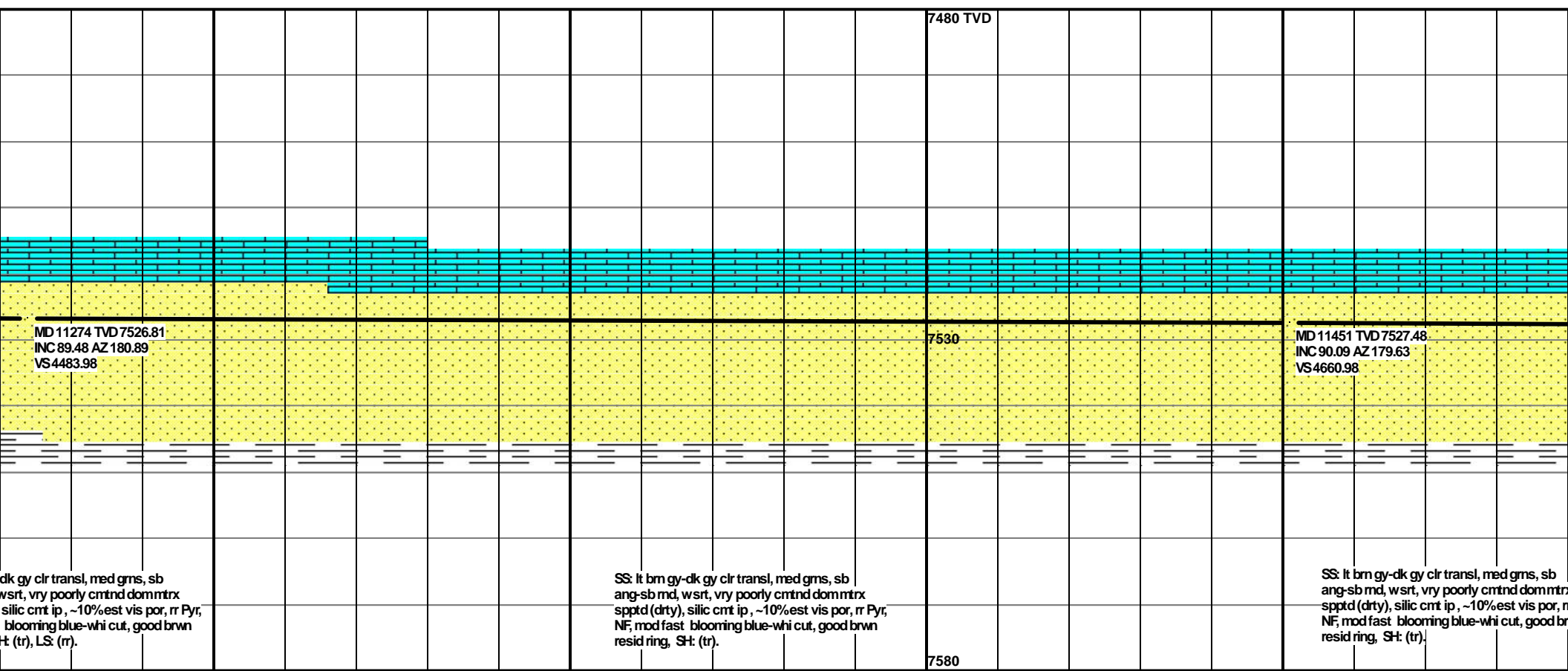
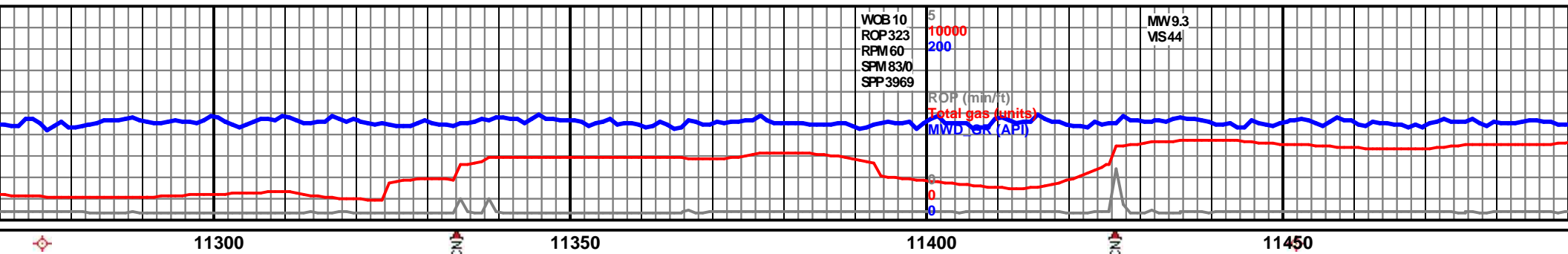


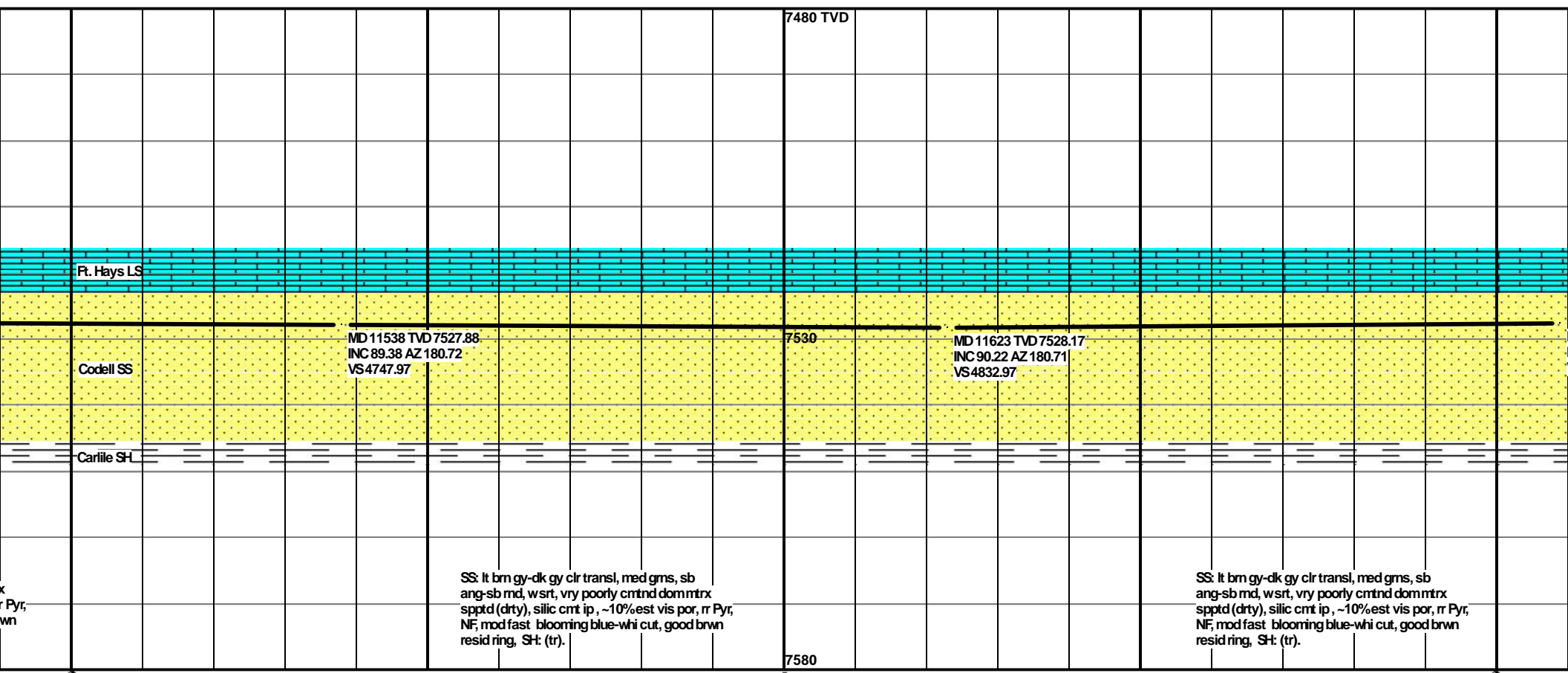
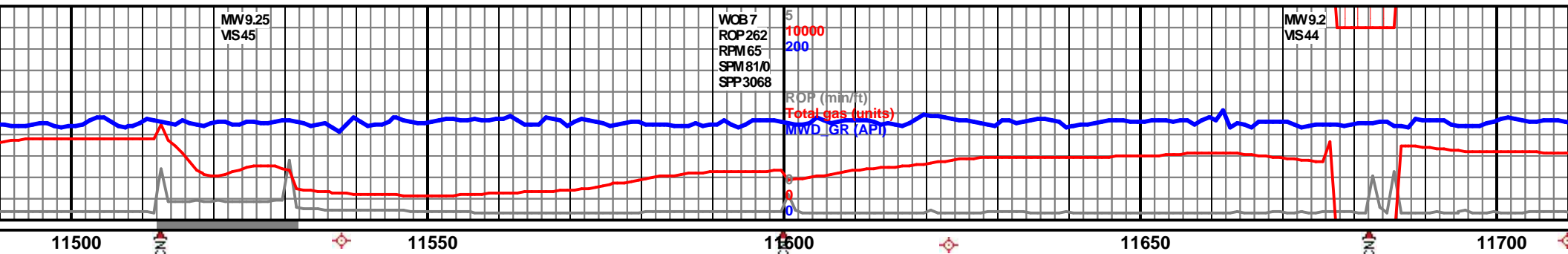


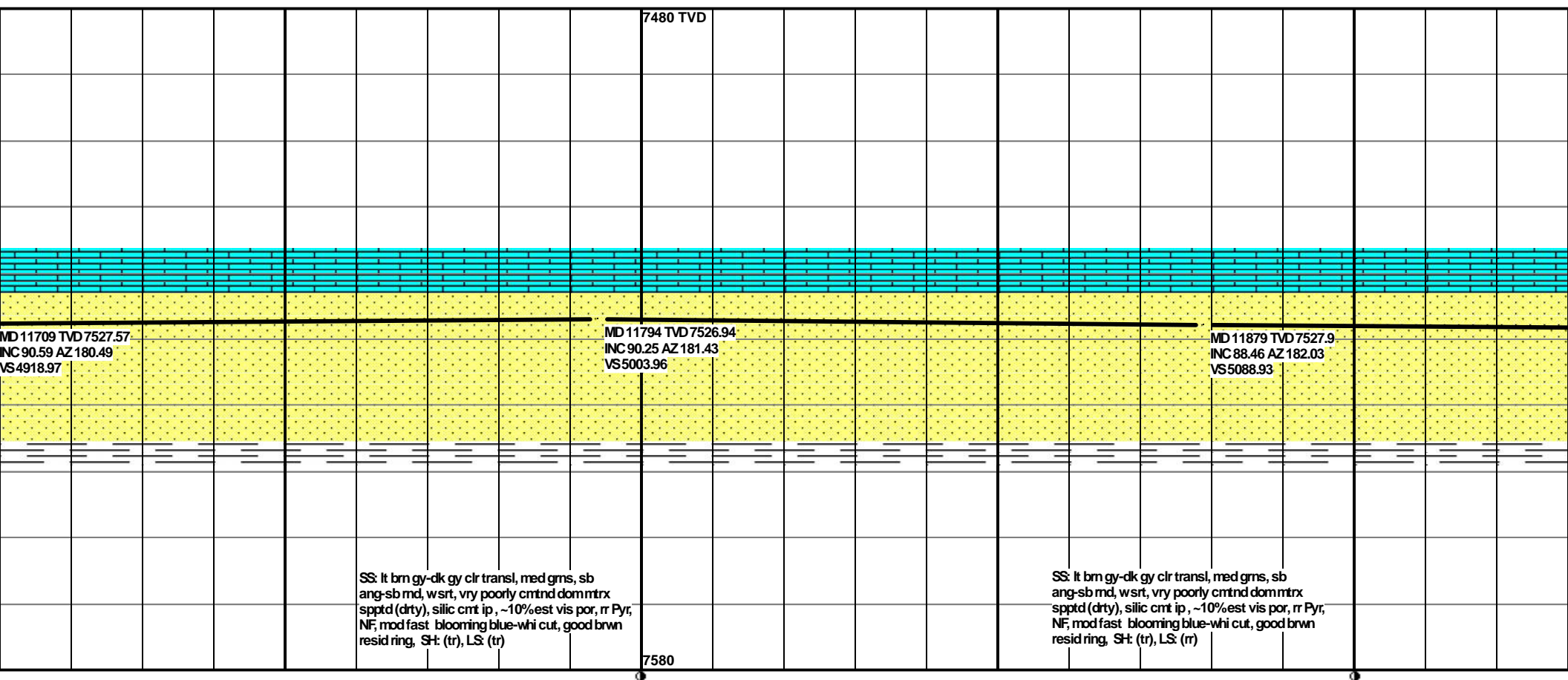
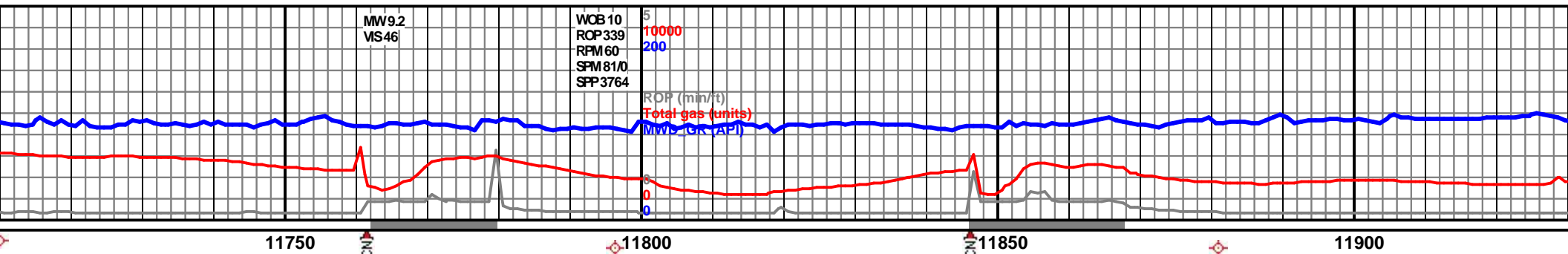








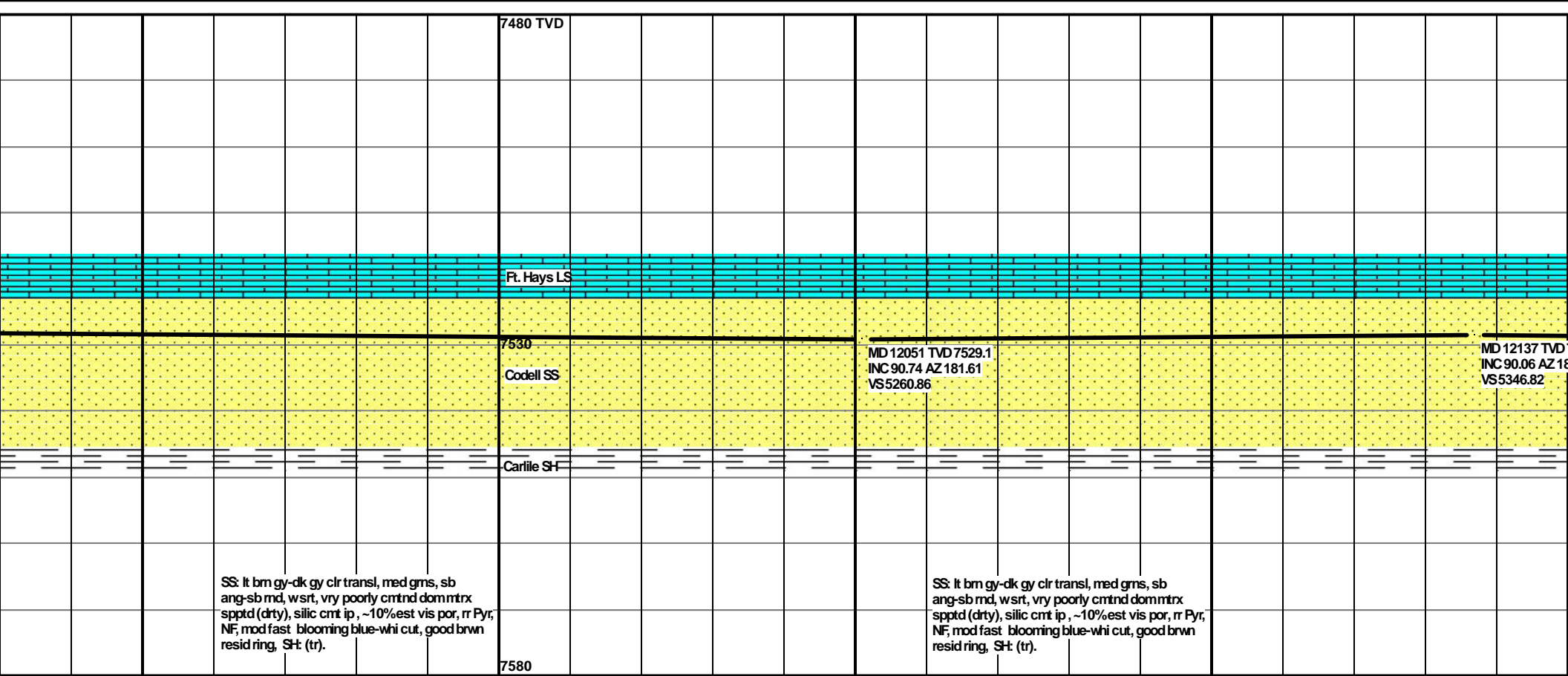
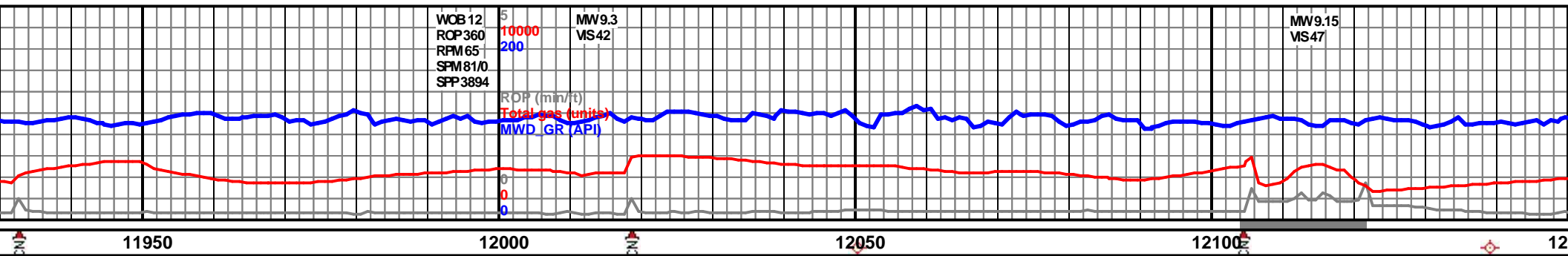


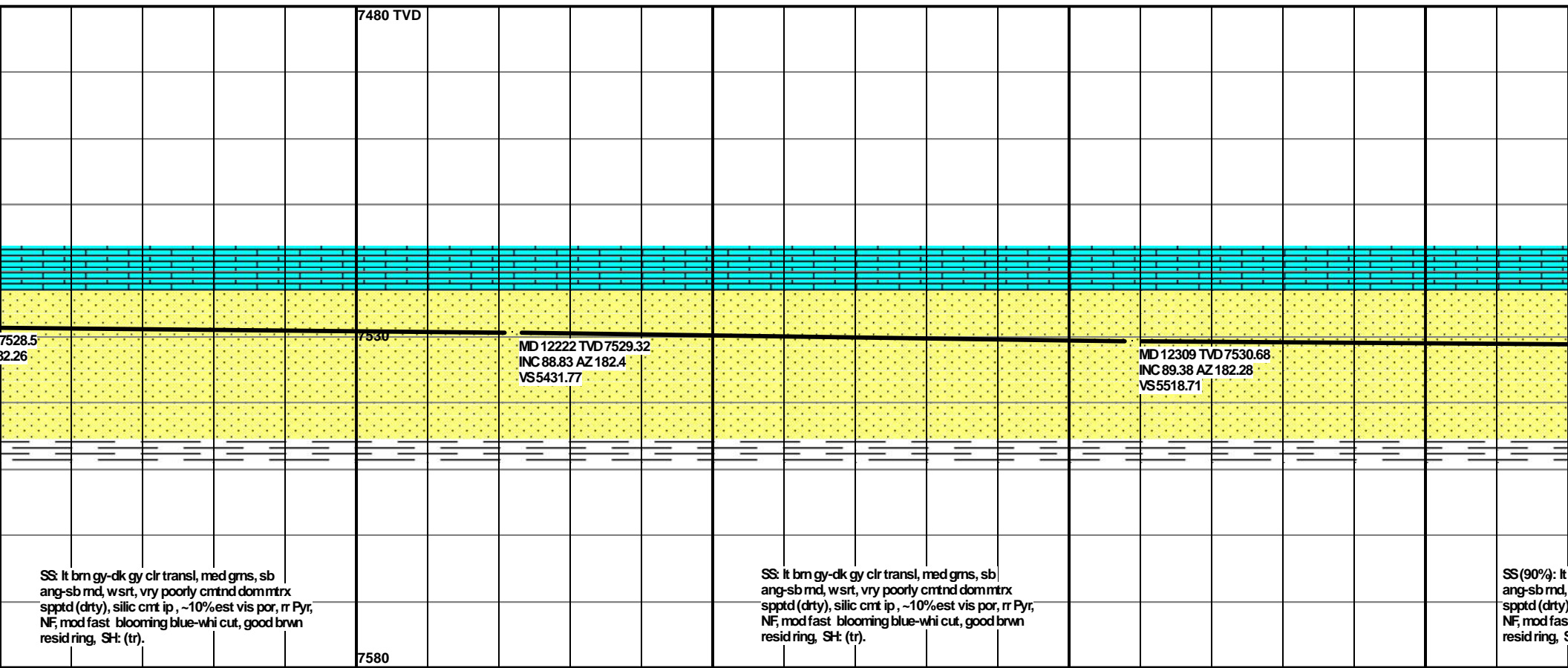
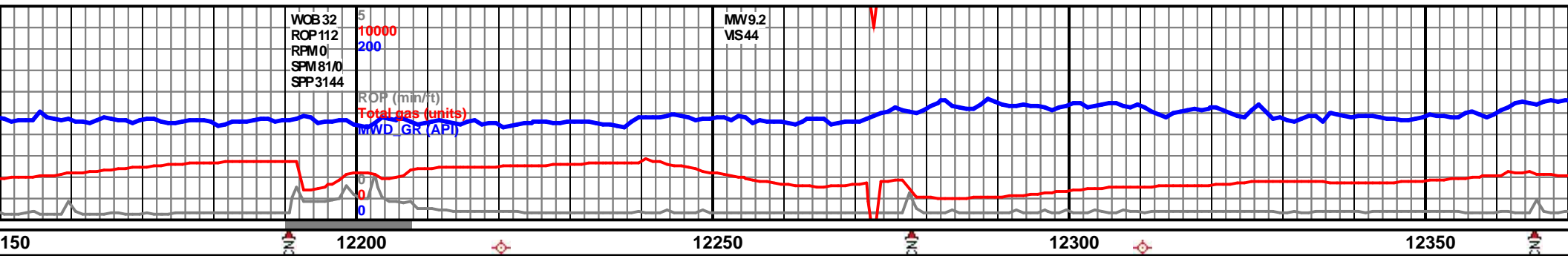


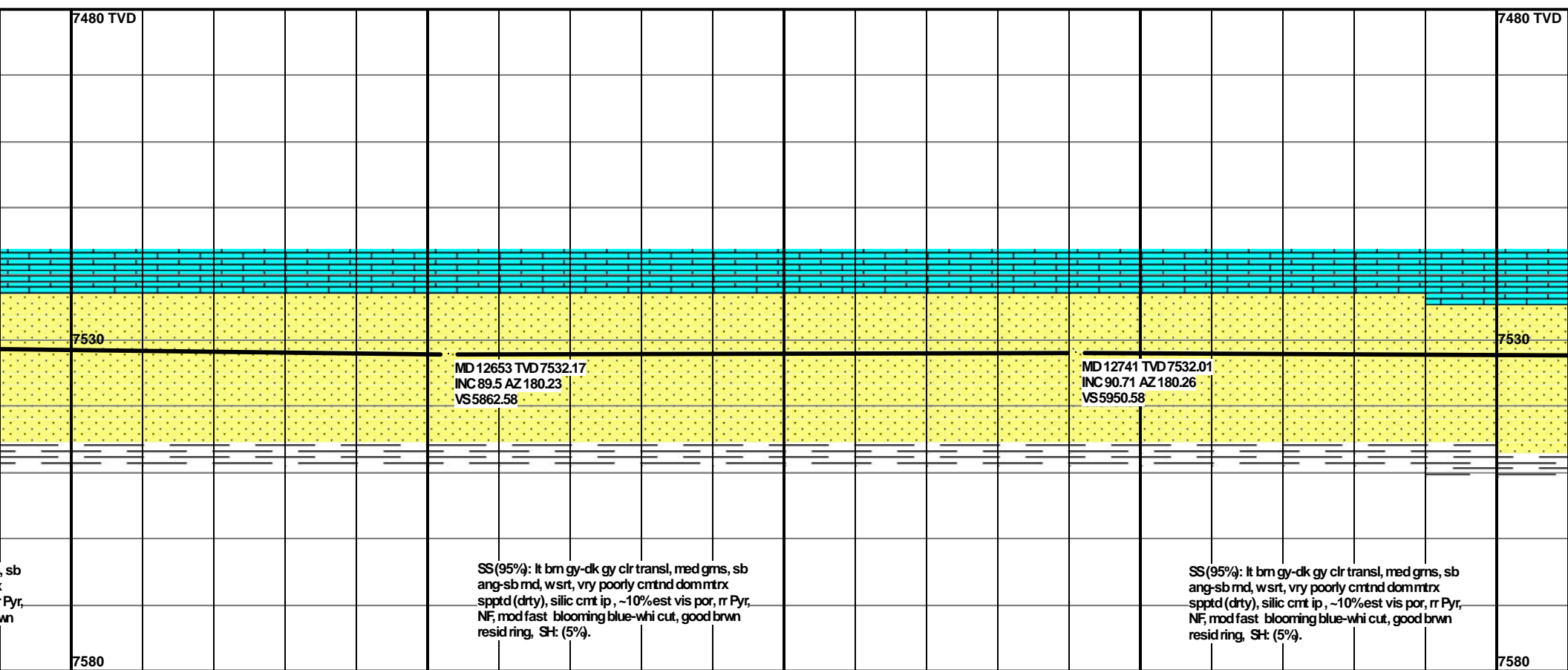
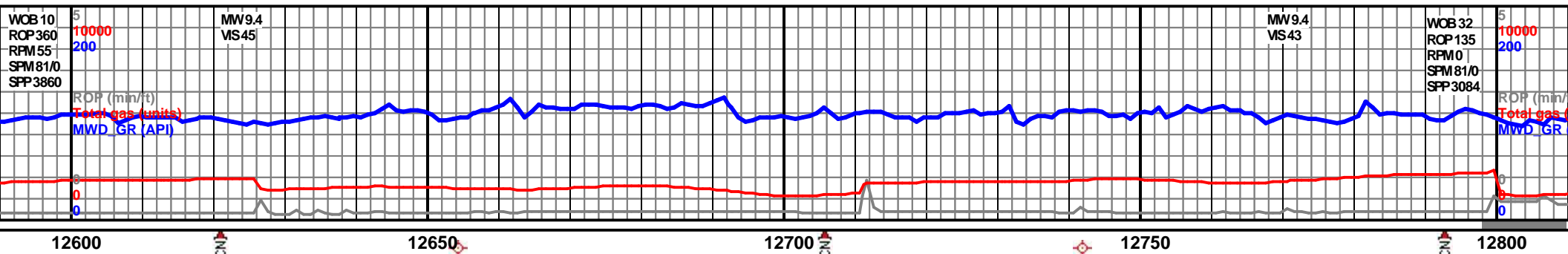
SS: lt brn gy-dk gy clr transl, med gms, sb
 ang-sb md, wsrt, vry poorly cmtnd dom mtrx
 spptd (drt), silic cmt ip, ~10% est vis por, r Pyr,
 NF, mod fast blooming blue-whi cut, good brwn
 resid ring, SH: (tr), LS: (tr)

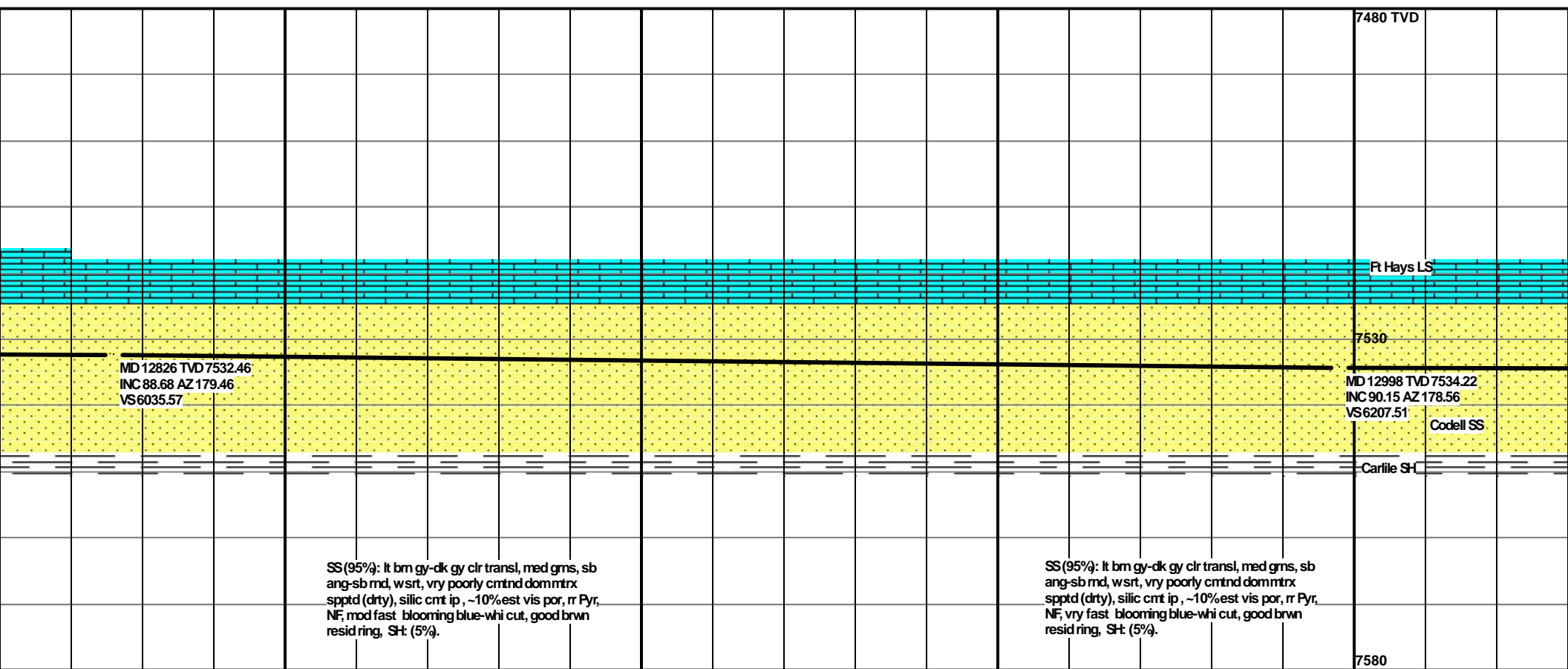
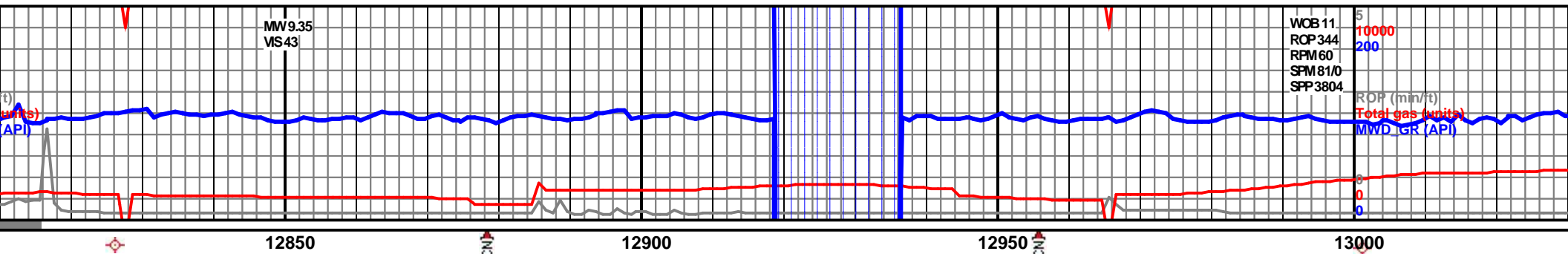
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 NF, mod fast blooming blue-whi cut, good brwn
 resid ring, SH: (tr), LS: (r)

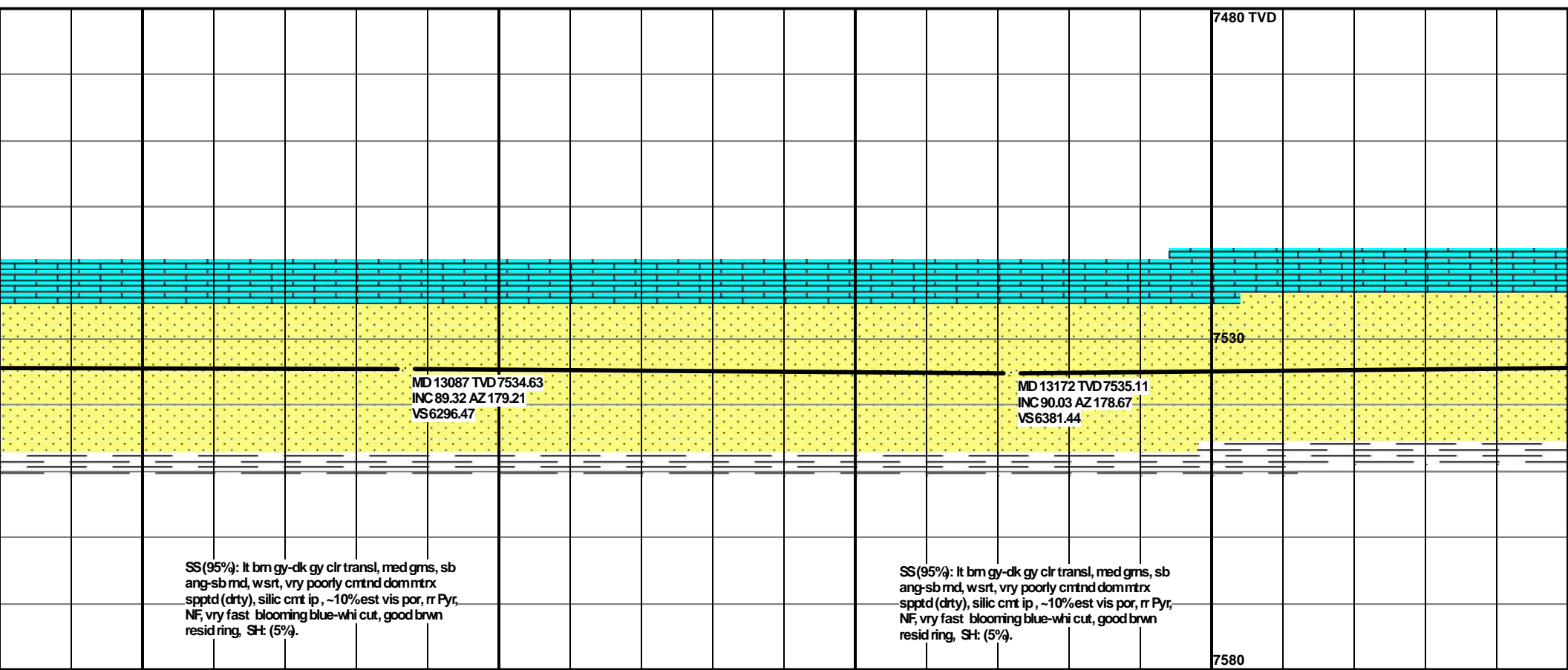
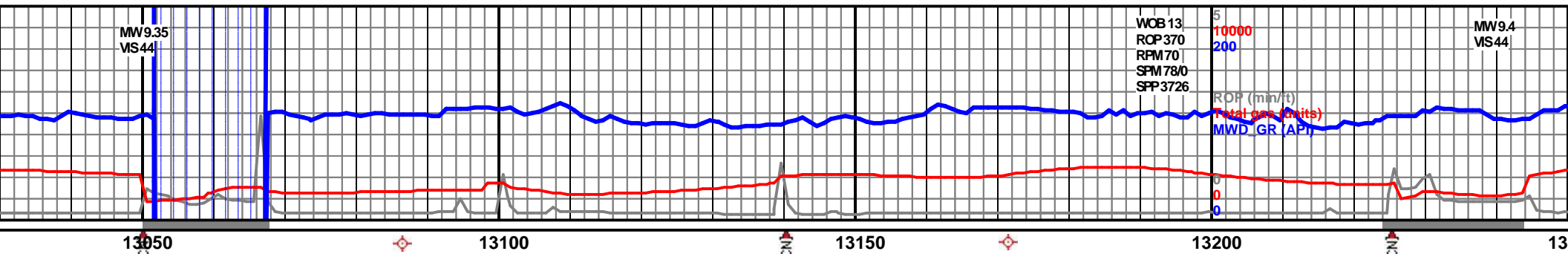


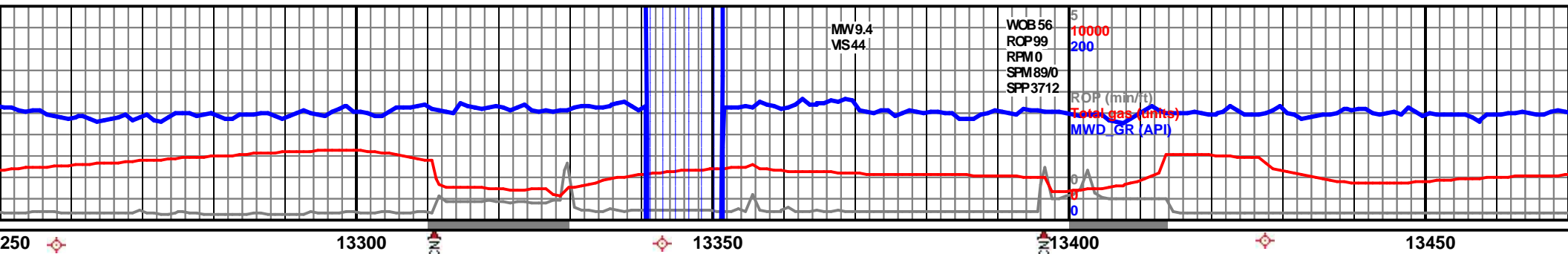




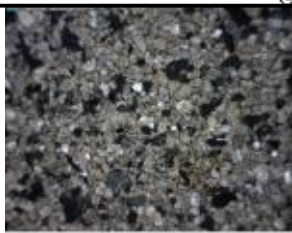


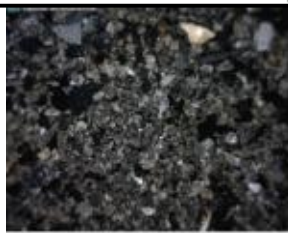
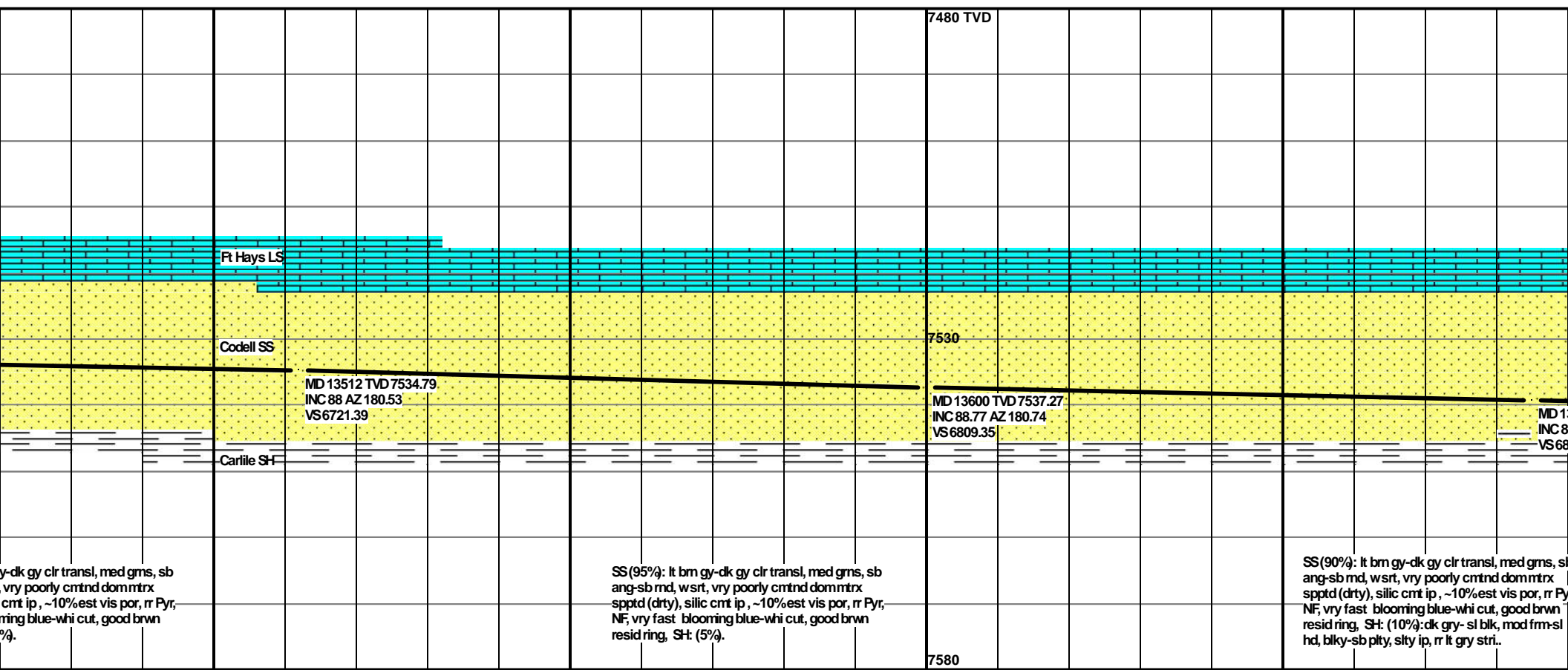
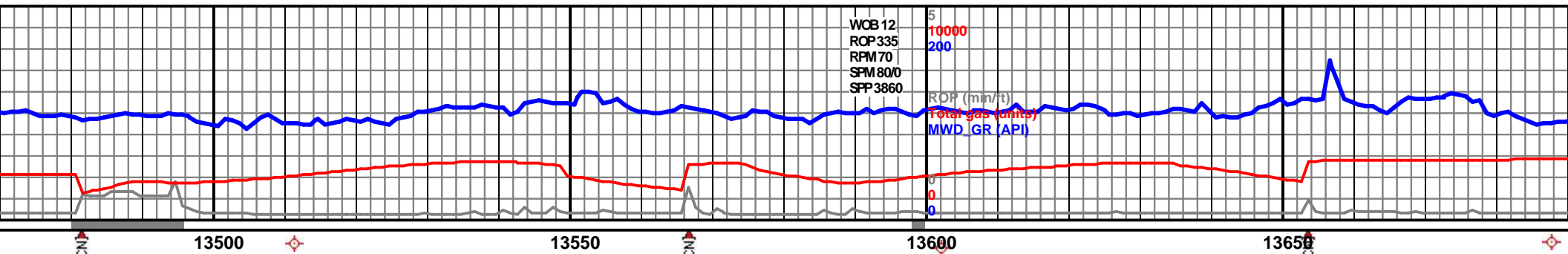


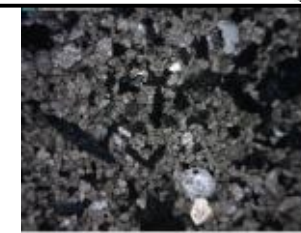
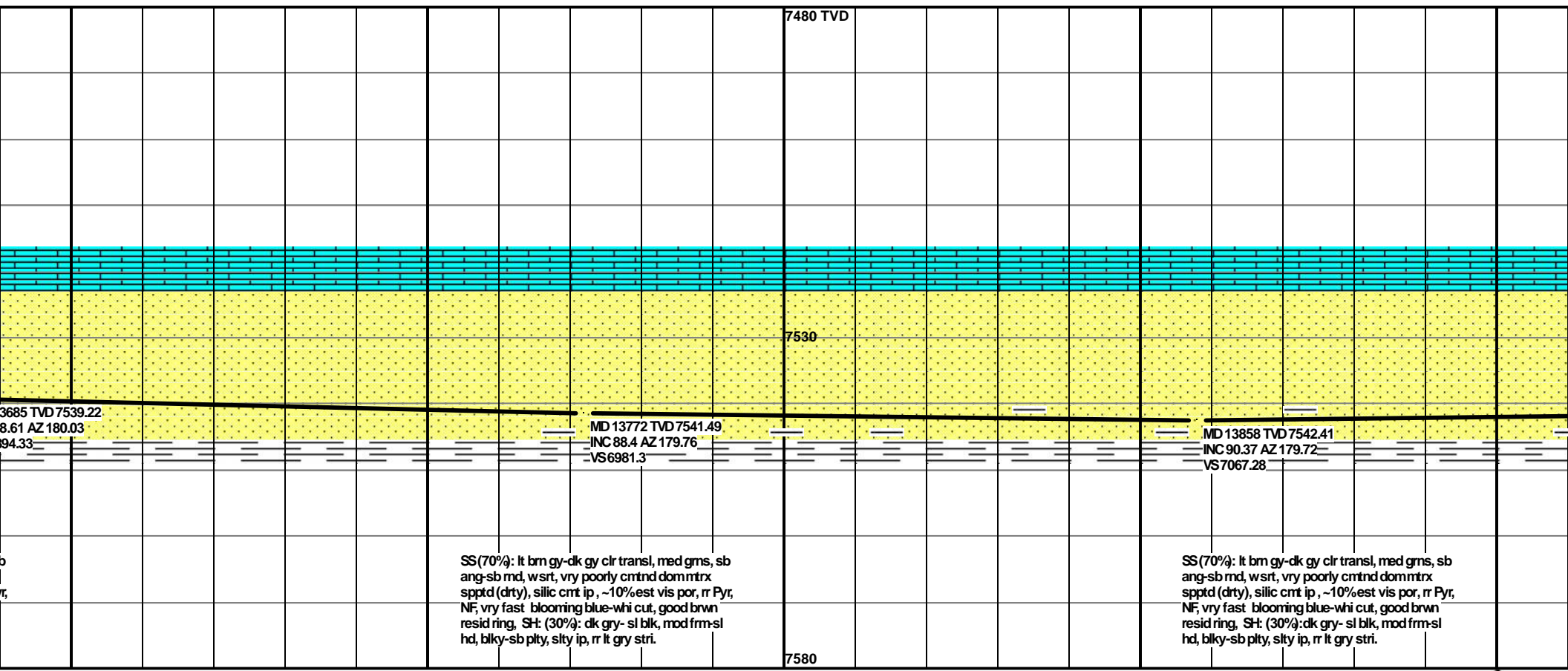
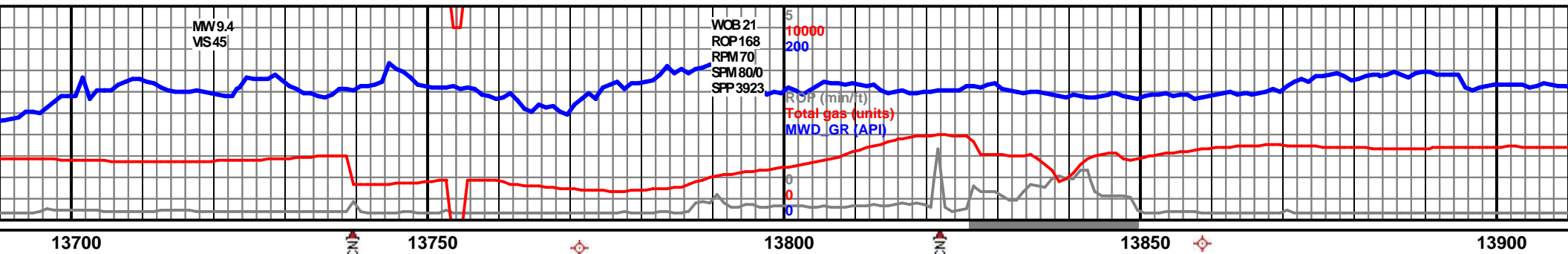


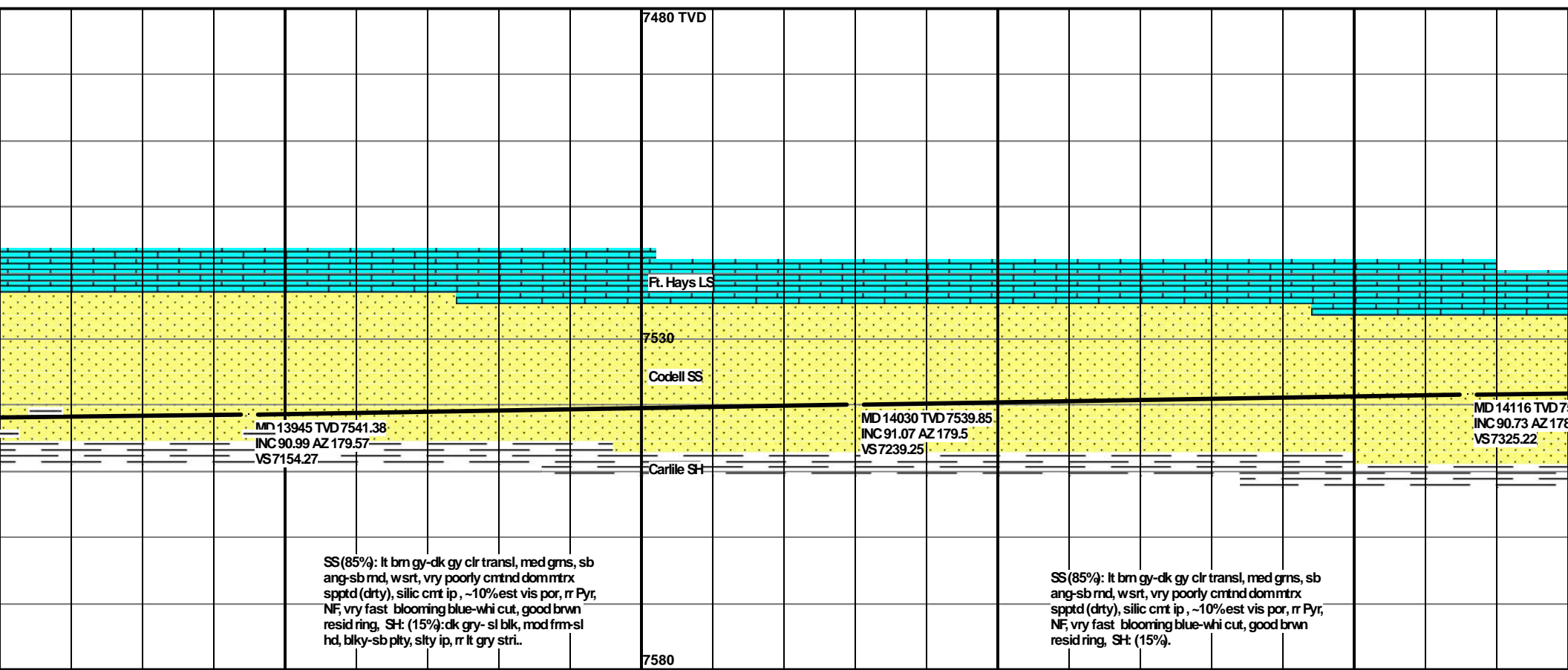
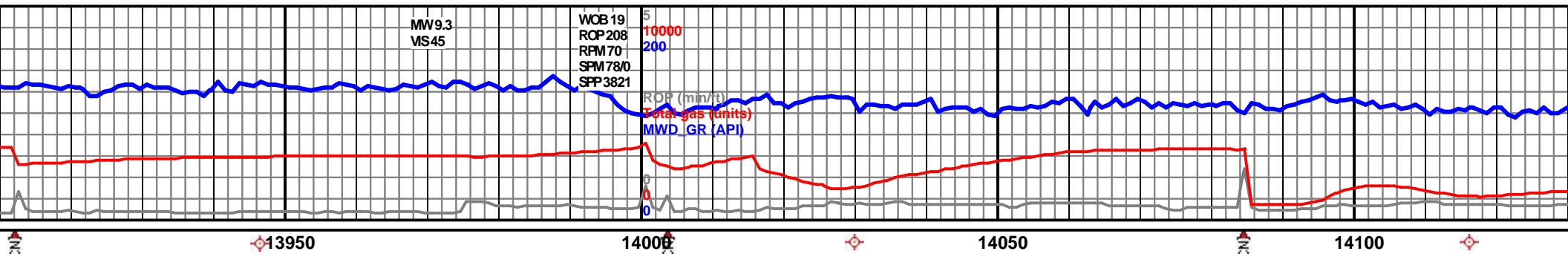


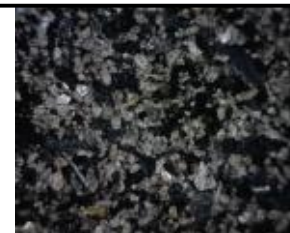
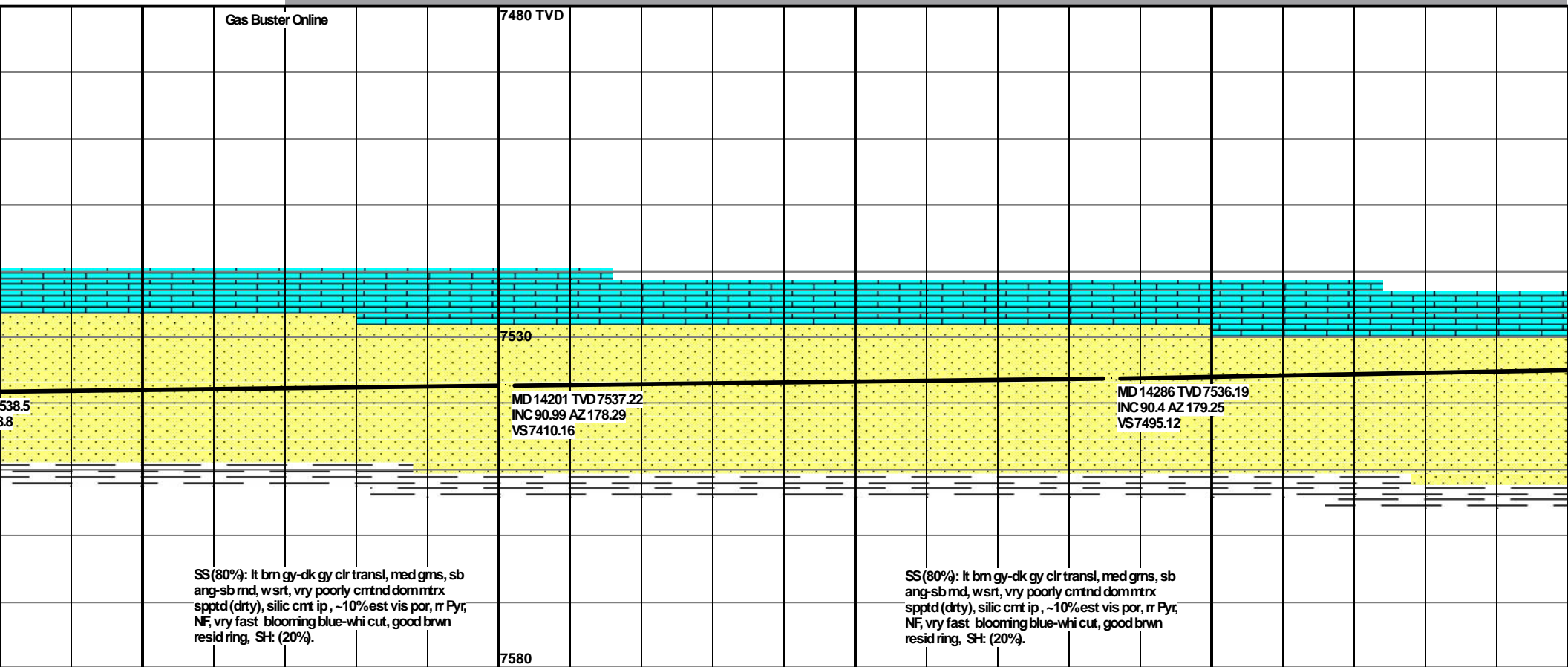
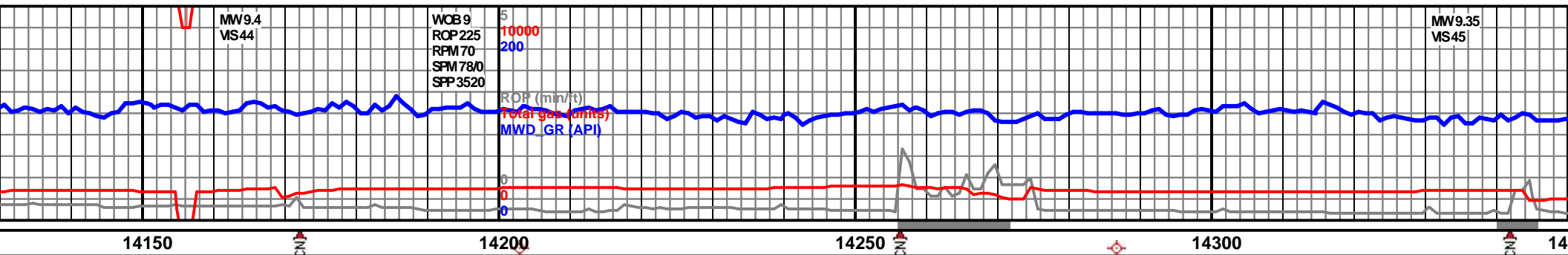
			7480 TVD	
			7530	
MD 13257 TVD 7534.24 INC 91.14 AZ 181.19 VS 6466.43		MD 13342 TVD 7533.08 INC 90.43 AZ 180.43 VS 6551.42		MD 13427 TVD 7533.04 INC 89.63 AZ 181 VS 6636.41
SS(95%): lt brn gy-dk gy clr transl, med gms, sb ang-sb mdl, wsrt, vry poorly cmtnd dom mtrix spptd (drt), silic cmt ip, ~10% est vis por, r Pyr, NF, vry fast blooming blue-whi cut, good brwn resid ring, SH: (5%).		SS(95%): lt brn gy-dk gy clr transl, med gms, sb ang-sb mdl, wsrt, vry poorly cmtnd dom mtrix spptd (drt), silic cmt ip, ~10% est vis por, r Pyr, NF, vry fast blooming blue-whi cut, good brwn resid ring, SH: (5%).	7580	SS(95%): lt brn g ang-sb mdl, wsrt, spptd (drt), silic NF, vry fast blooming resid ring, SH: (5%).

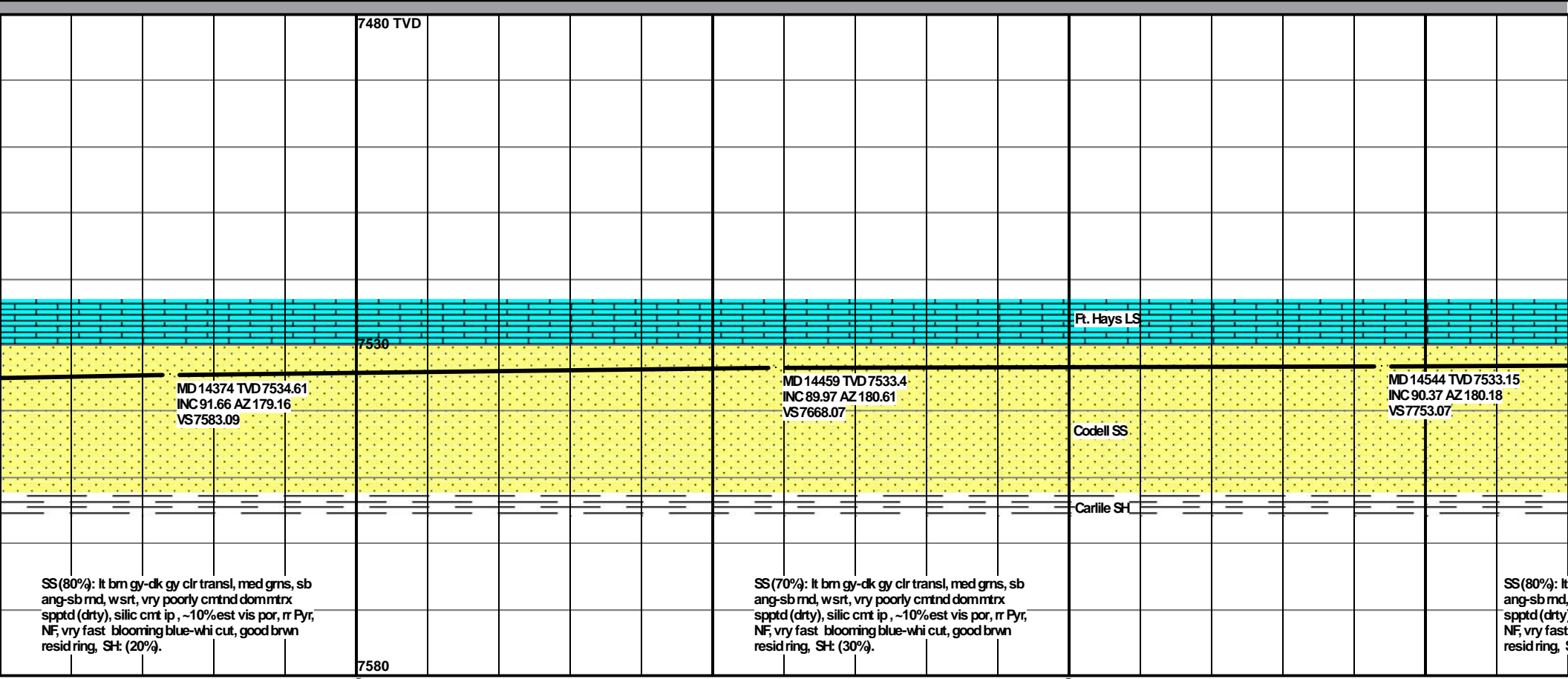
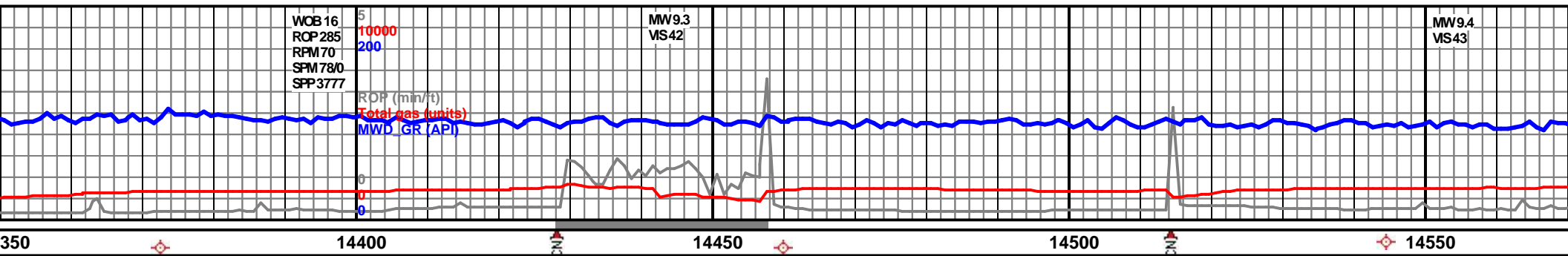


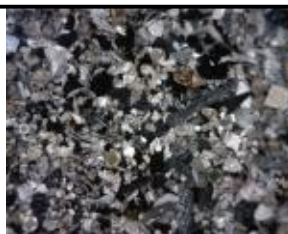
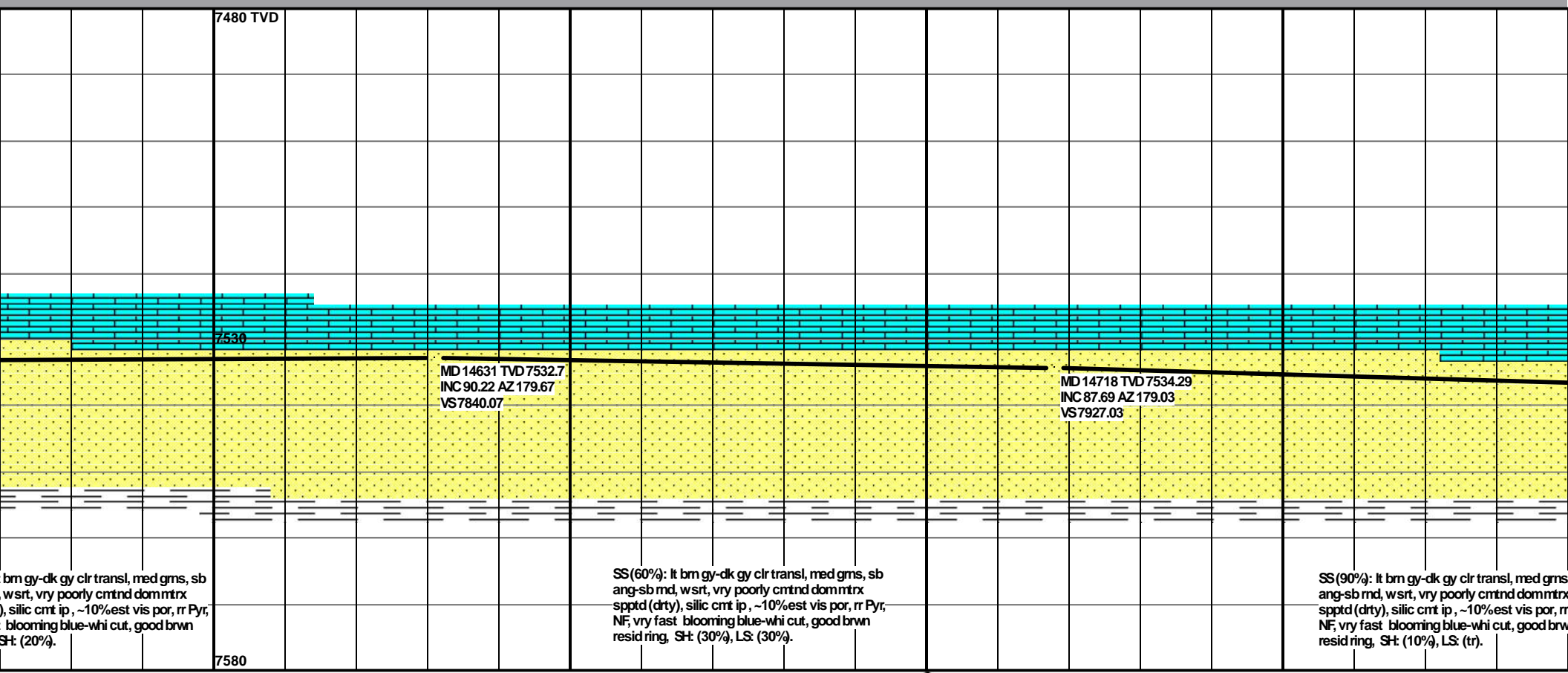
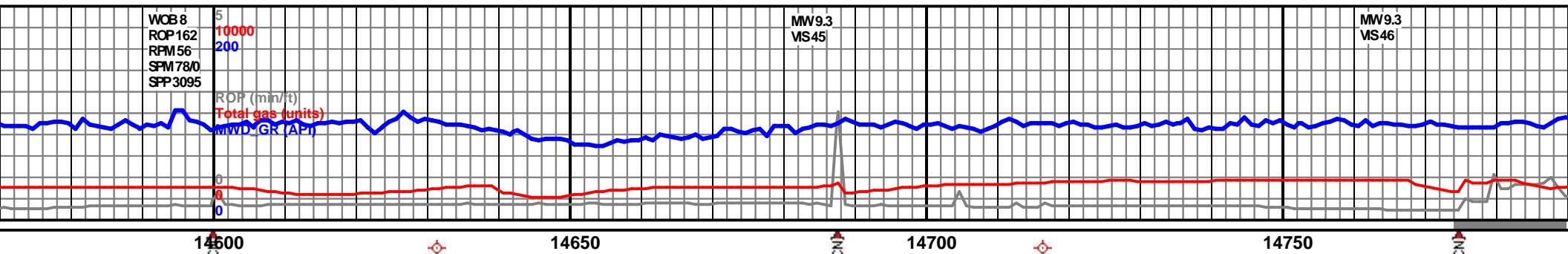


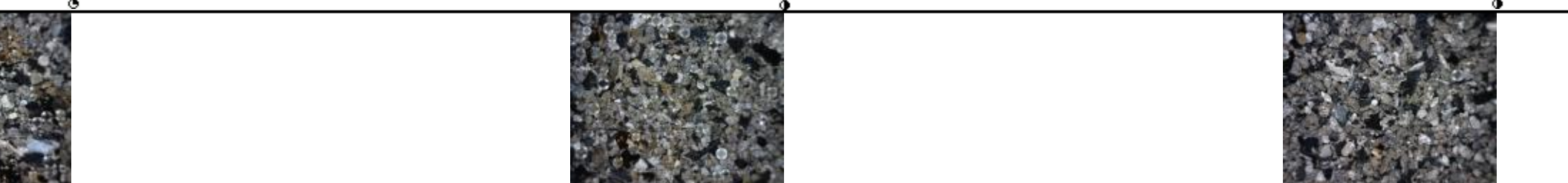
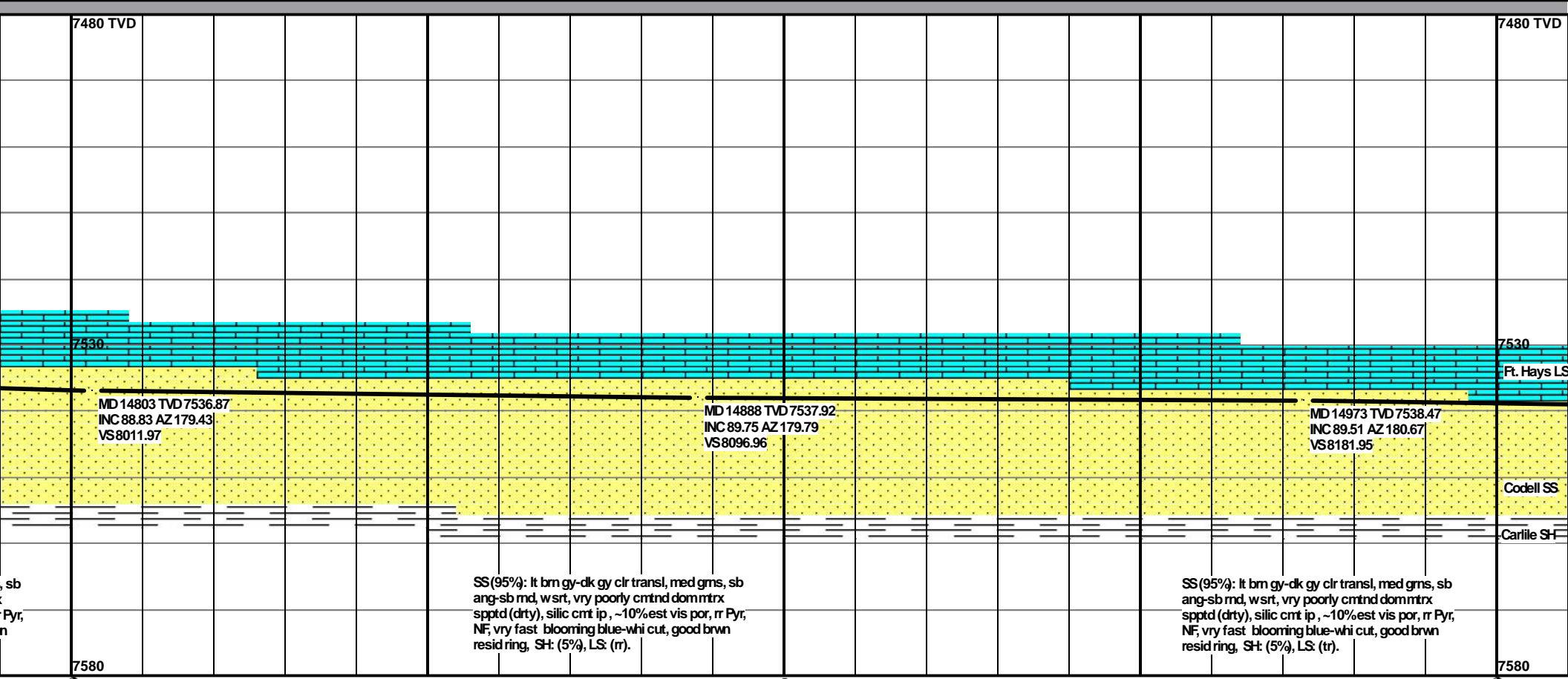
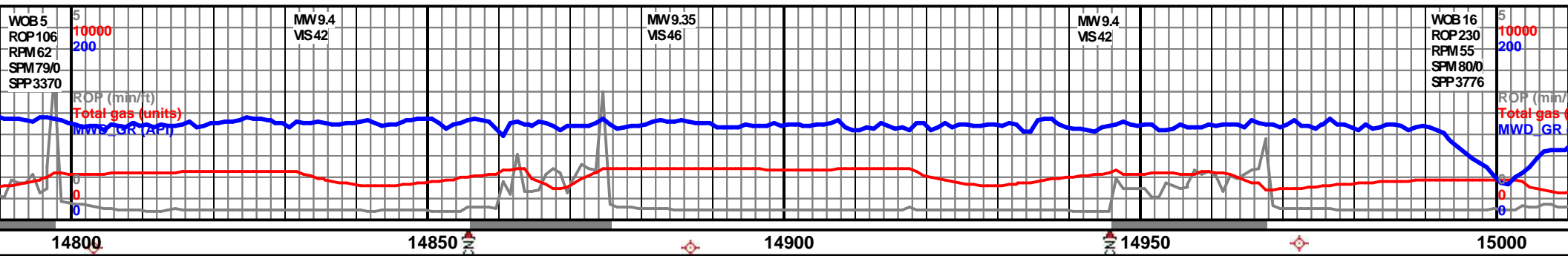


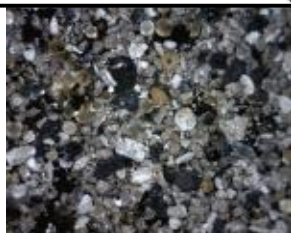
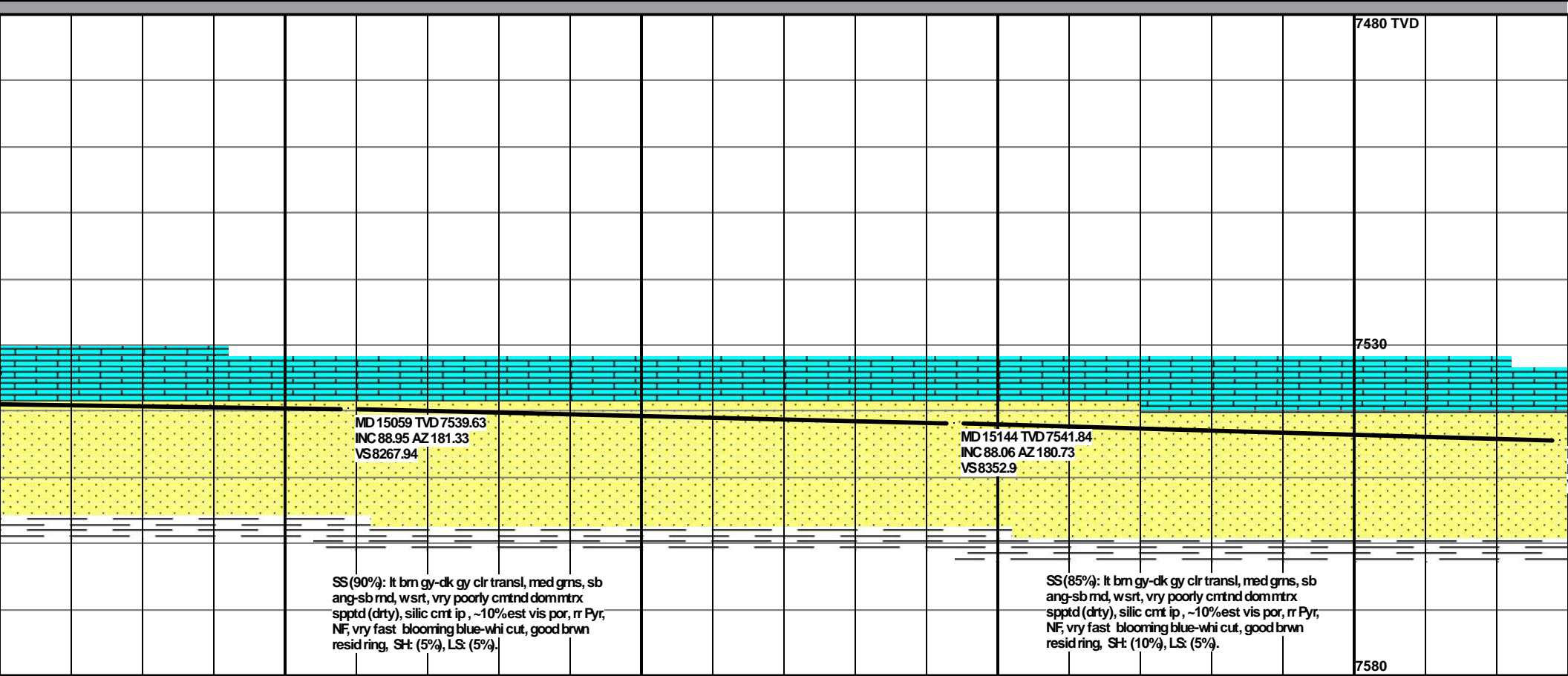
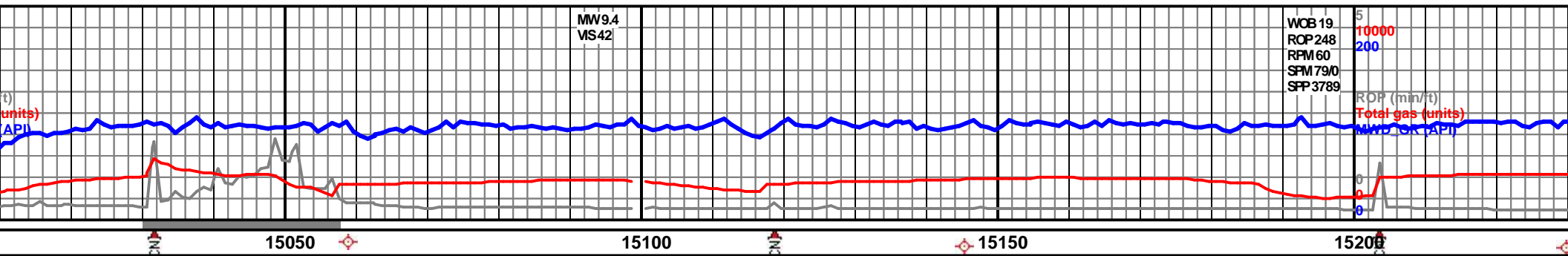


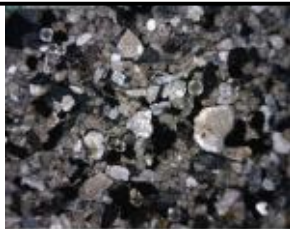
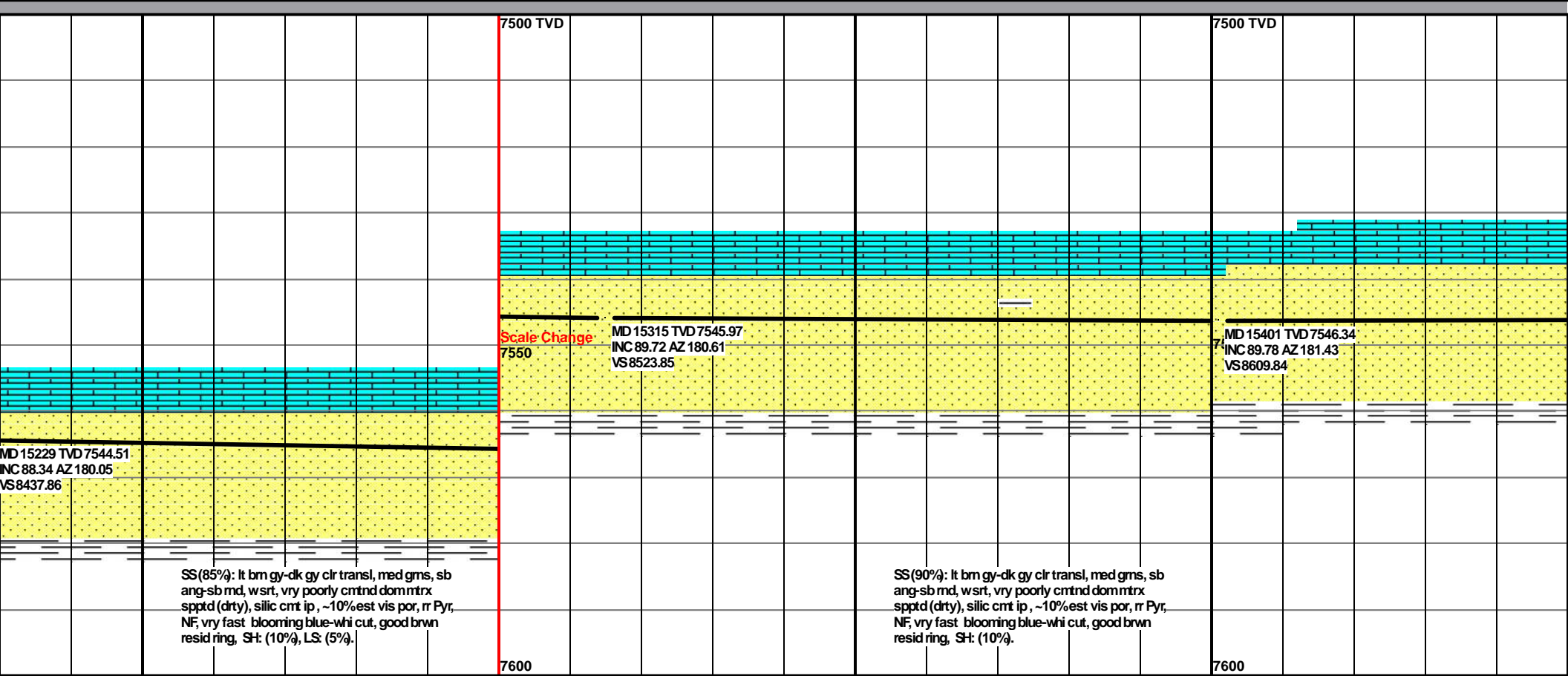
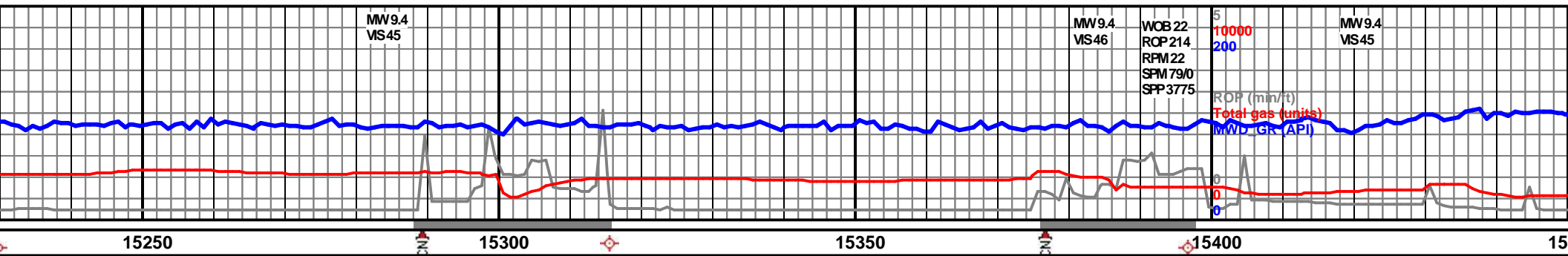


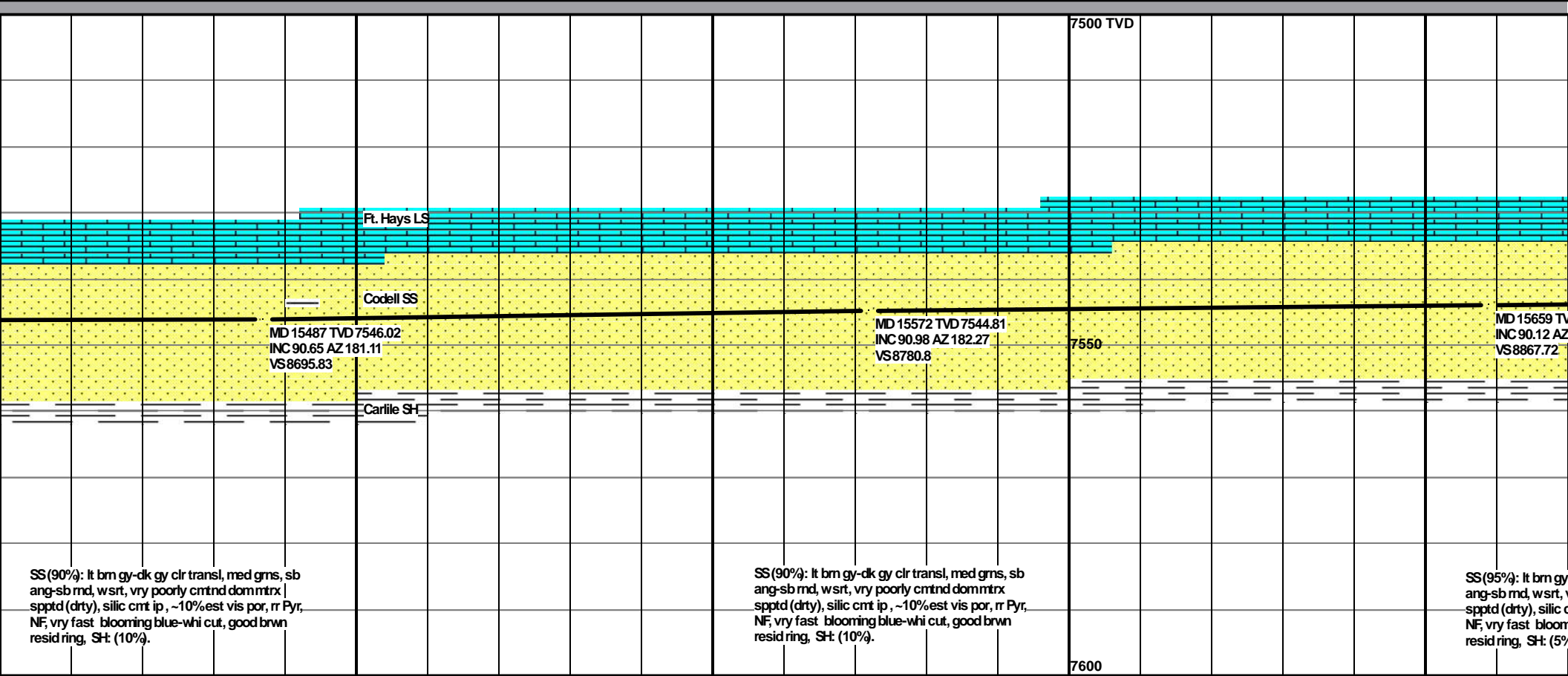
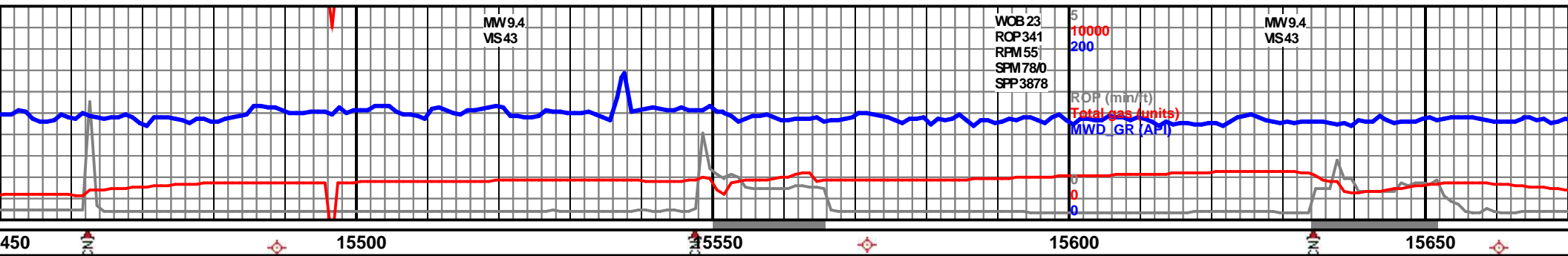


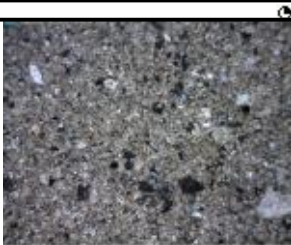
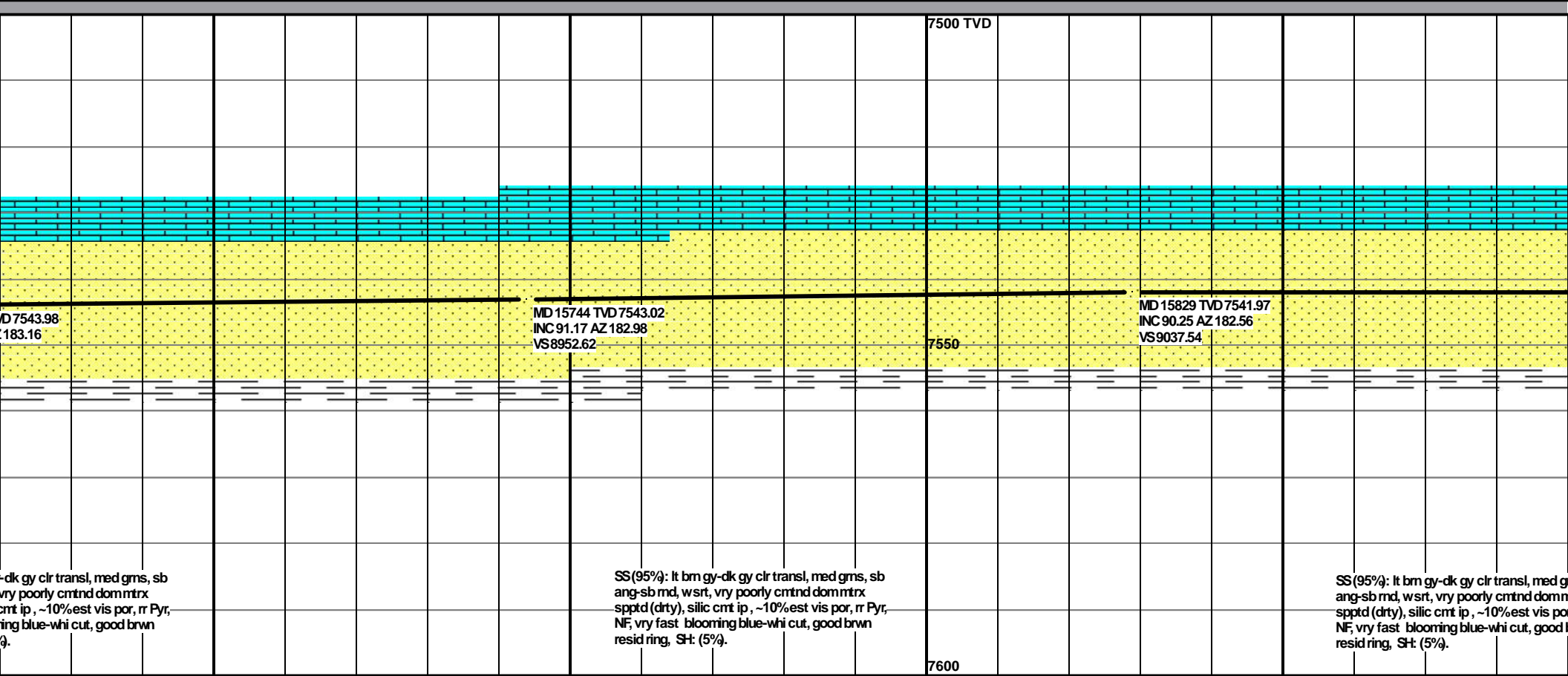
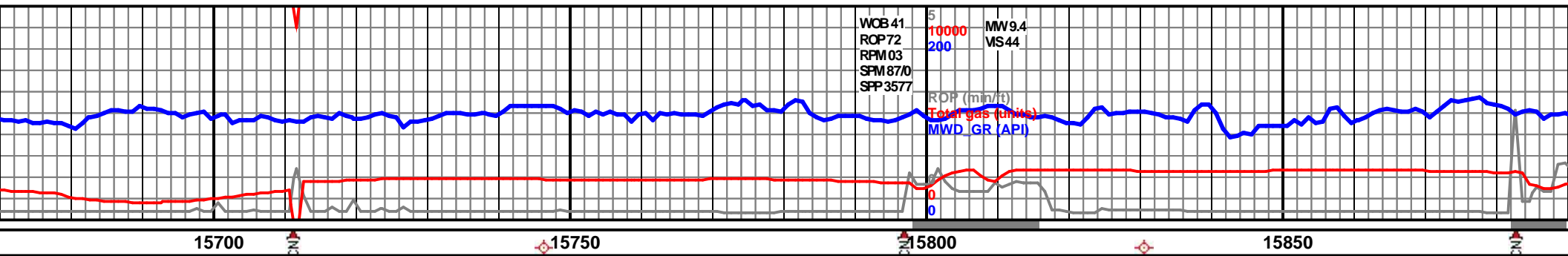


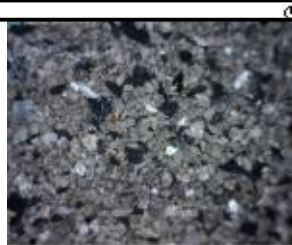
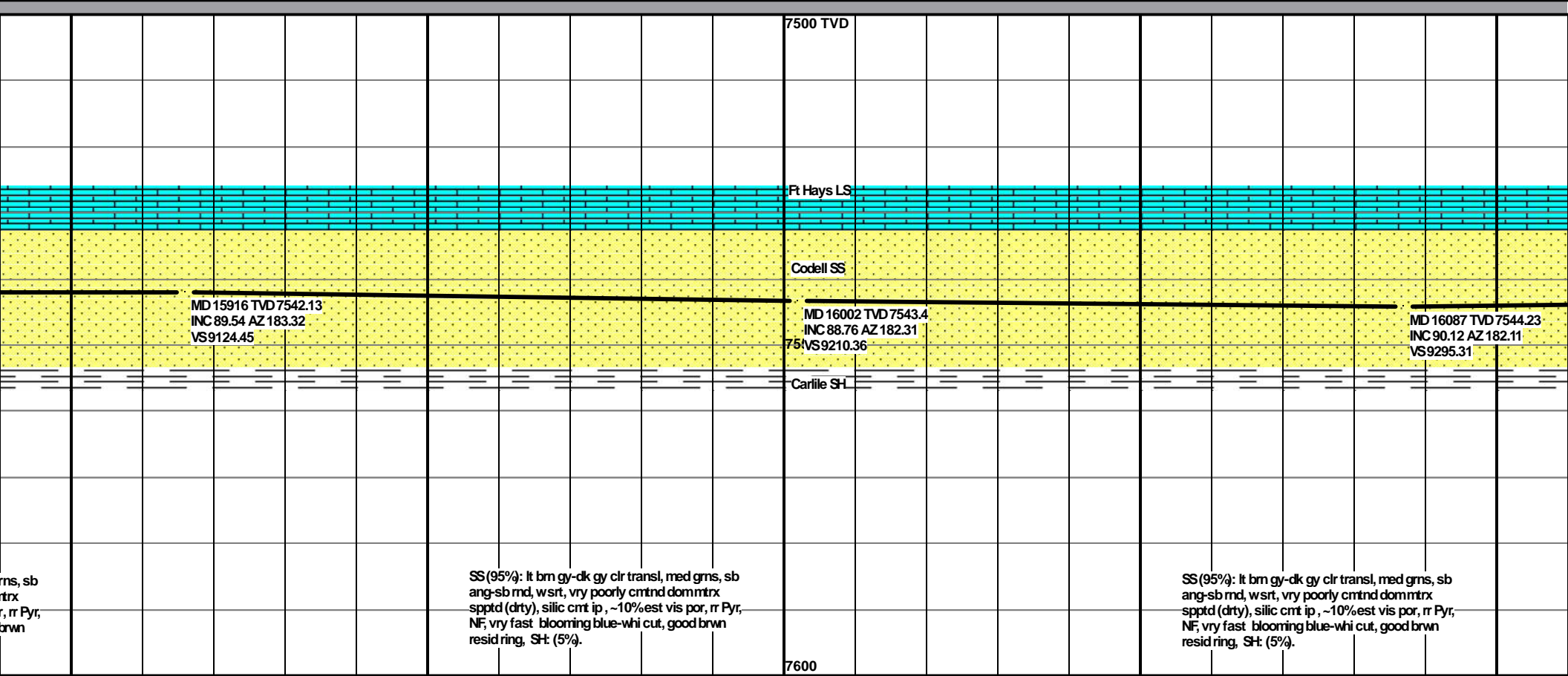
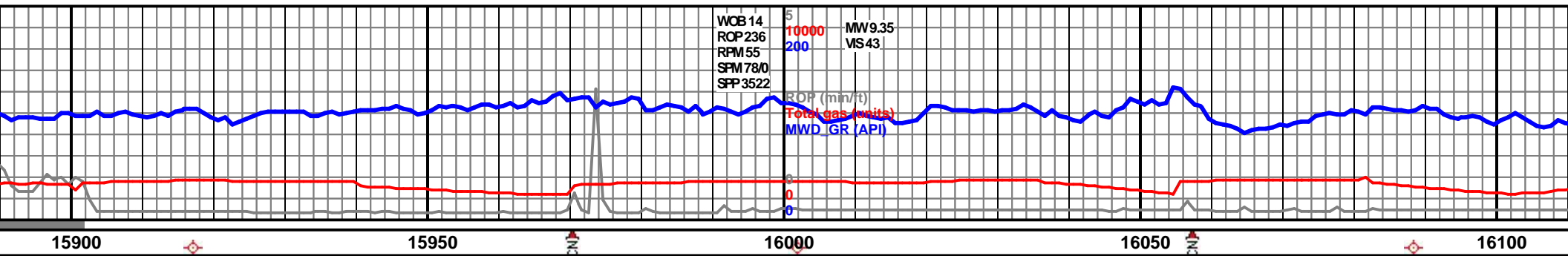


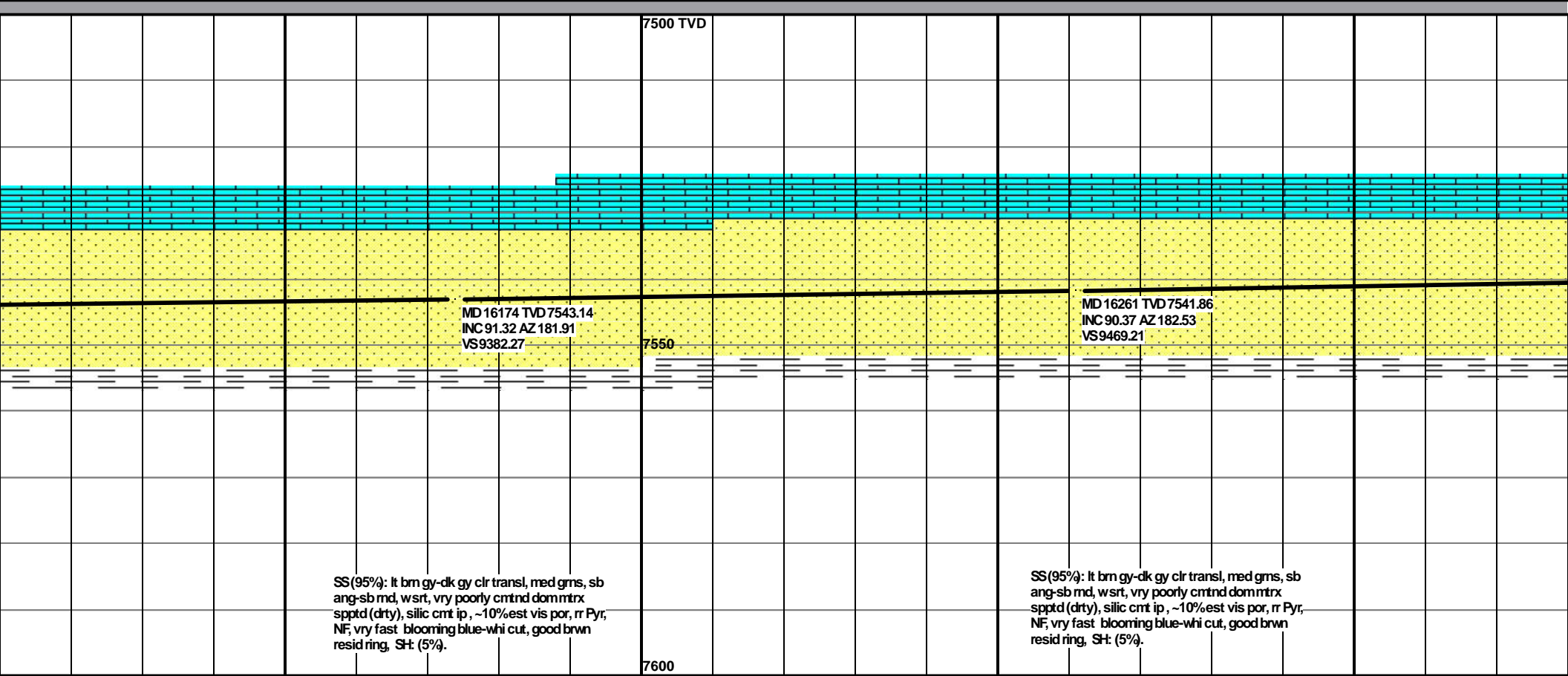
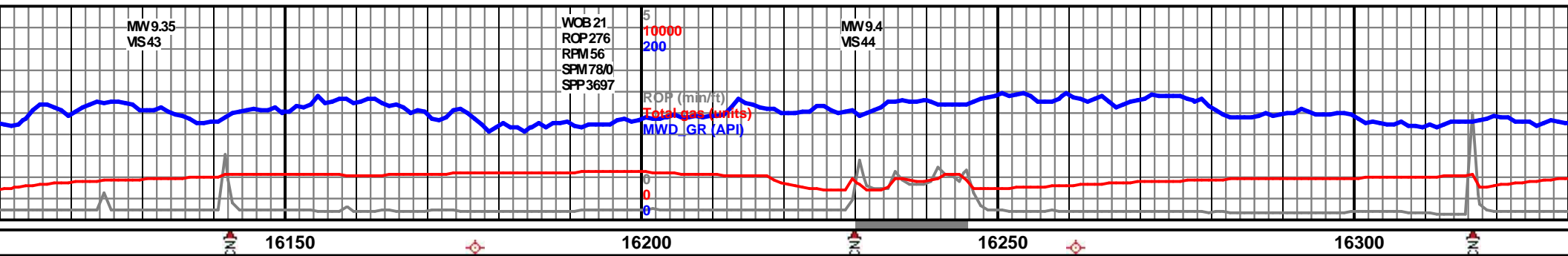


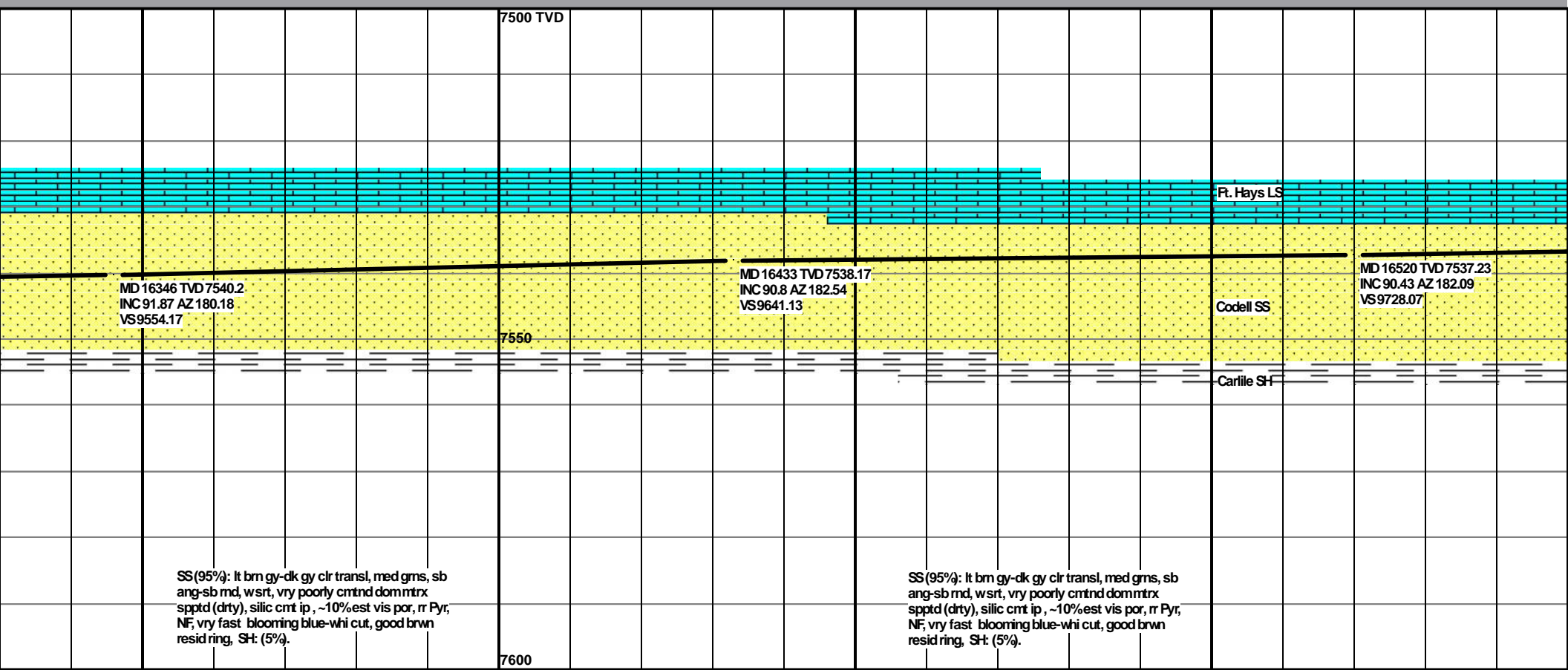
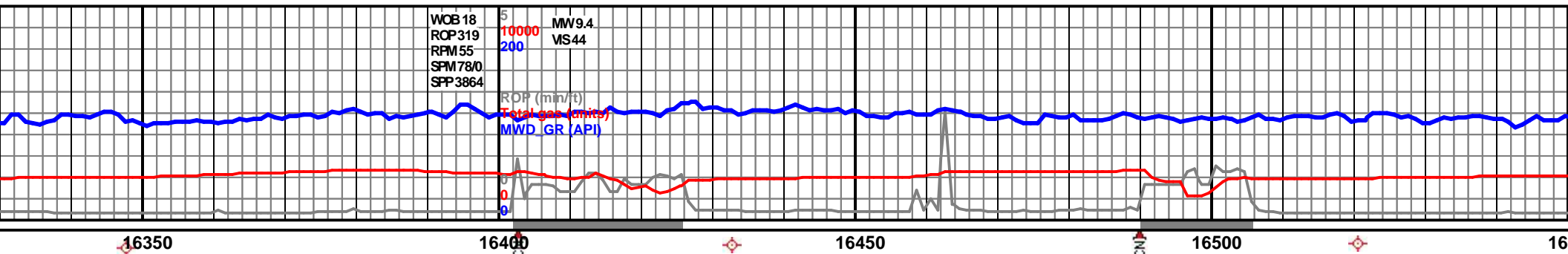


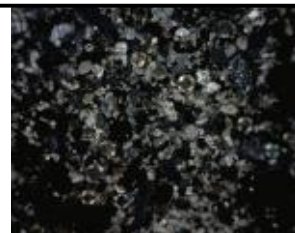
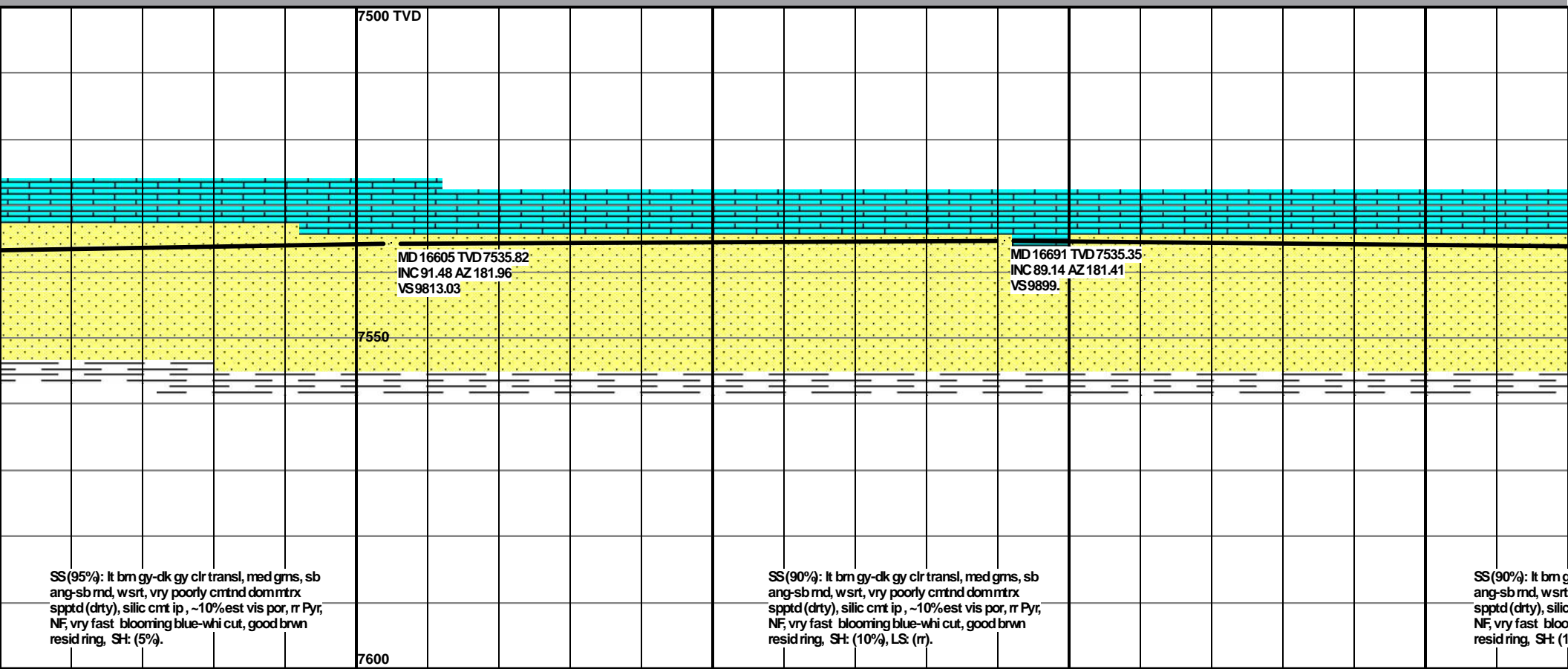
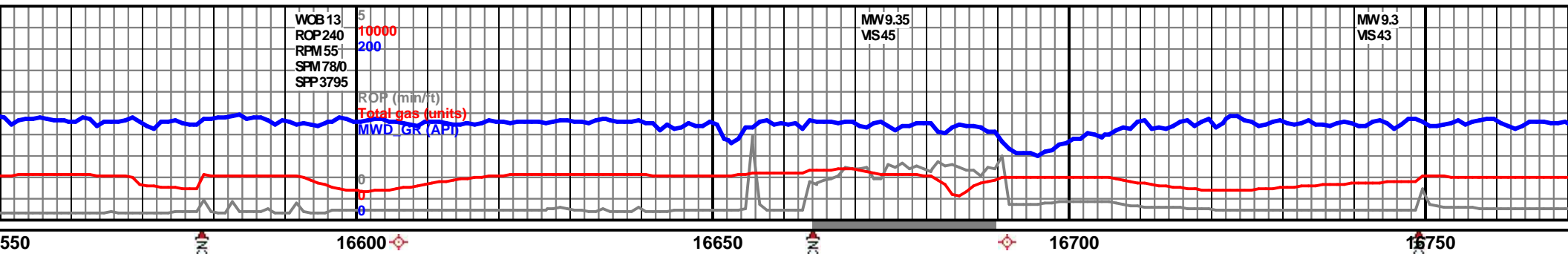


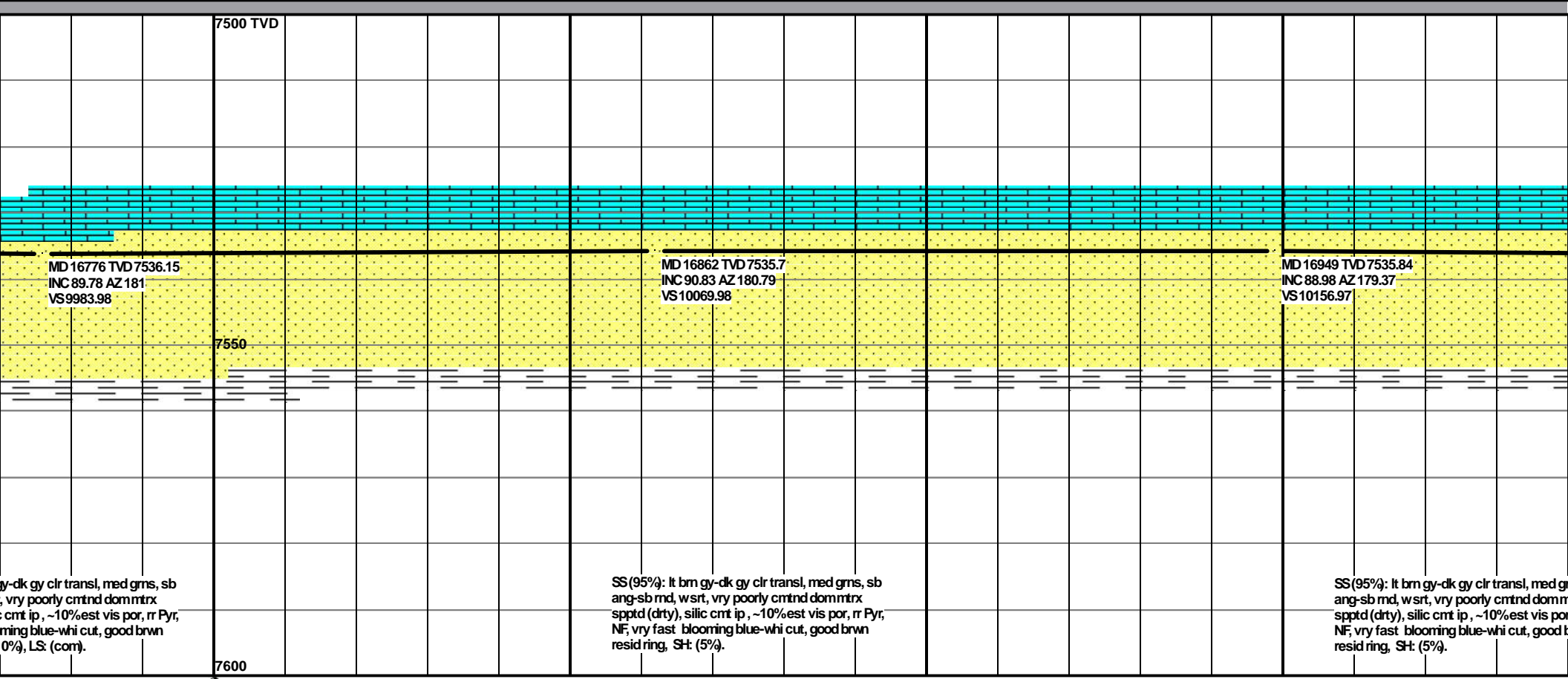
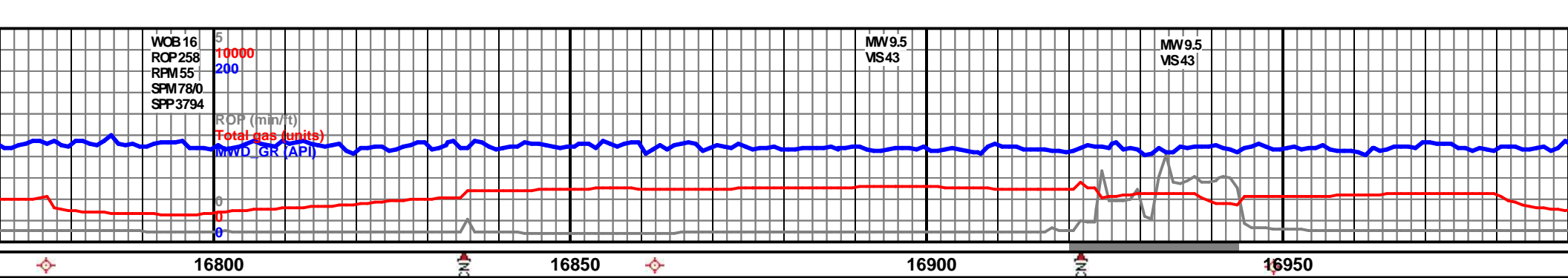










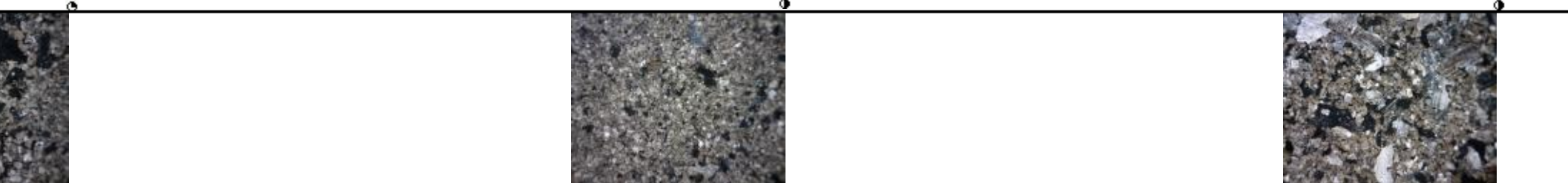
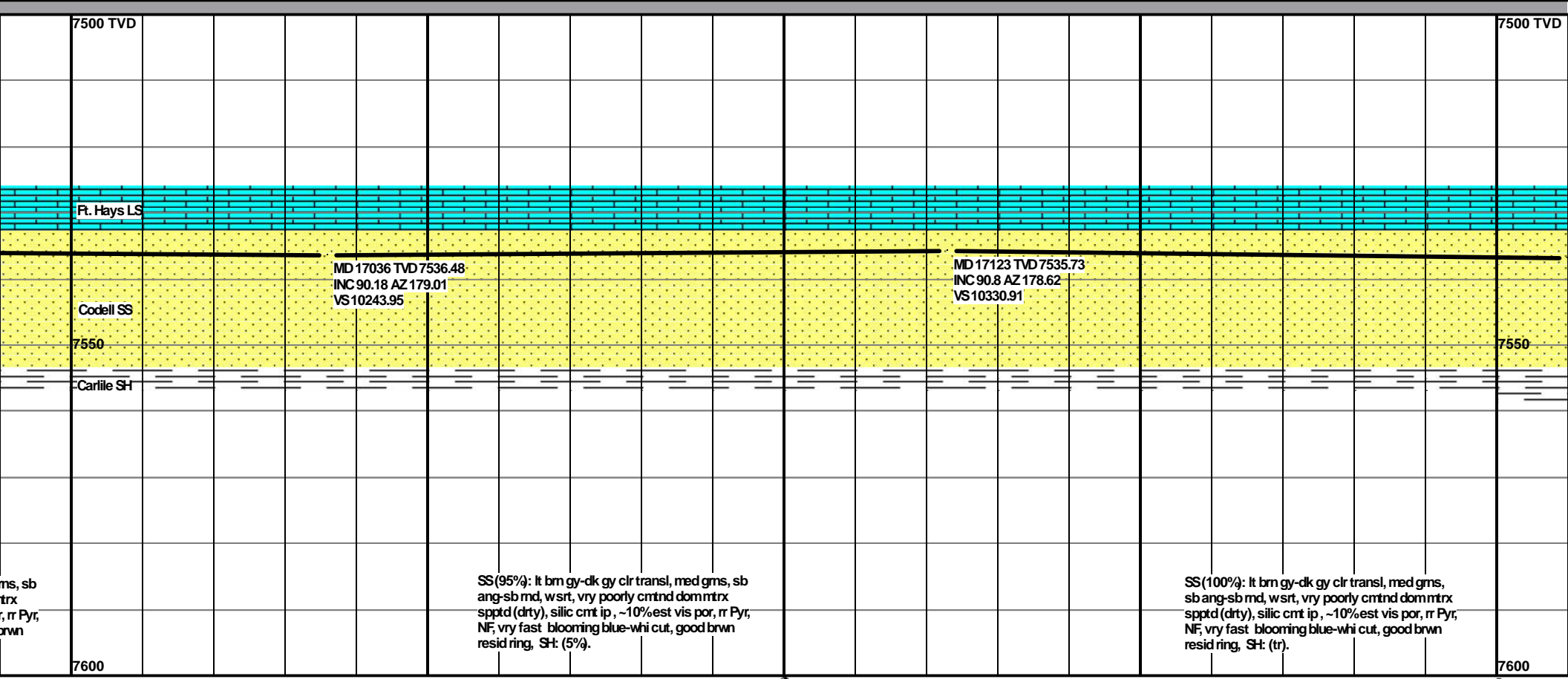
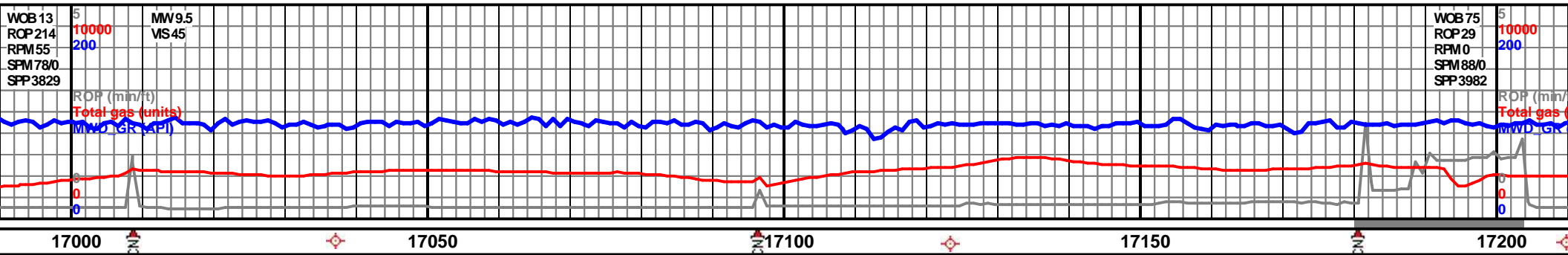


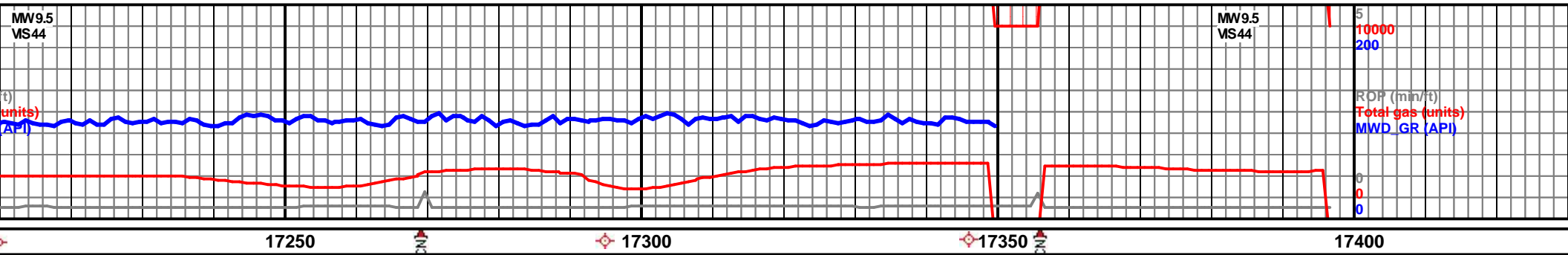
gy-dk gy clr transl, med gms, sb
ang-sb md, wsr, vry poorly cmtnd dom mtrx
cmt ip, ~10% est vis por, r Pyr,
blooming blue-whi cut, good brwn
0%, LS (com).

SS (95%): lt brn gy-dk gy clr transl, med gms, sb
ang-sb md, wsr, vry poorly cmtnd dom mtrx
spptd (drt), silic cmt ip, ~10% est vis por, r Pyr,
NF; vry fast blooming blue-whi cut, good brwn
resid ring, SH: (5%).

SS (95%): lt brn gy-dk gy clr transl, med gms, sb
ang-sb md, wsr, vry poorly cmtnd dom mtrx
spptd (drt), silic cmt ip, ~10% est vis por, r Pyr,
NF; vry fast blooming blue-whi cut, good brwn
resid ring, SH: (5%).







										7500 TVD		
										DMTD reached @ 12:17 hrs on 27, 2015.		
										Circulate on bottom, TOOH to s pill, continue TOOH, hang 4 1/2 liner landed @ 17,390' on 3/29		
										OB #3 Drilled 9,514' in 47.4 hr Average ROP: 200.7 ft/hr		
										Projection to Bit		
										MD 17397 TVD 7540.33		
										INC 89.45 AZ 178.05		
										VS-10604.66		
										7550		
										Geologic Tops picked by Ian H Anadarko.		
										Sharon Springs	7,154'	
										Niobrara	7,221'	
										Niobrara B Chalk	7,284'	
										Niobrara C Chalk	7,348'	
										Fort Hays	7,483'	
										DMTD	17,390'	
										Production csg	17,390'	
										Wellsite Geologists Brian Spill and Dan Kabala, GBA.		
										7600		

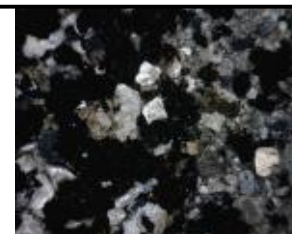
MD 17210 TVD 7536.76
INC 87.85 AZ 178.2
VS 10417.84

MD 17295 TVD 7539.13
INC 88.95 AZ 178.24
VS 10502.75

MD 17346 TVD 7539.84
INC 89.45 AZ 178.05
VS 10553.7

SS(100%): lt brn gy-dk gy clr transl, med gms, sb ang-sb md, wsr, vry poorly cmtnd dom mtrix spptd (dirty), silic cmt ip, ~10% est vis por, r Pyr, NF, vry fast blooming blue-whi cut, good brwn resid ring, SH: (tr).

SS(100%): lt brn gy-dk gy clr transl, med gms, sb ang-sb md, wsr, vry poorly cmtnd dom mtrix spptd (dirty), silic cmt ip, ~10% est vis por, r Pyr, NF, vry fast blooming blue-whi cut, good brwn resid ring, SH: (tr).



17

March	
shoe, spot ECD 2" production /2015	
S.	
Larris,	
(-2,213')	
7' (-2,219')	
(-2,343')	
(-2,407')	
3' (-2,542')	
97'	
0'	
zmler	