

OPERATOR: **Nickel Road Operating, LLC**

WELL NAME: **Blehm 8X-HC-10-07-67**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Cyclone 37

API #: 05-123-51474

LAT/LONG: 40.594503, -104.891012

SURFACE HOLE: NENE S9-T7N-R67W, 530' FNL, 661' FEL

BOTTOM HOLE: S10-T7N-R67W, 470' FSL, 460' FEL



Earth Science Agency, LLC

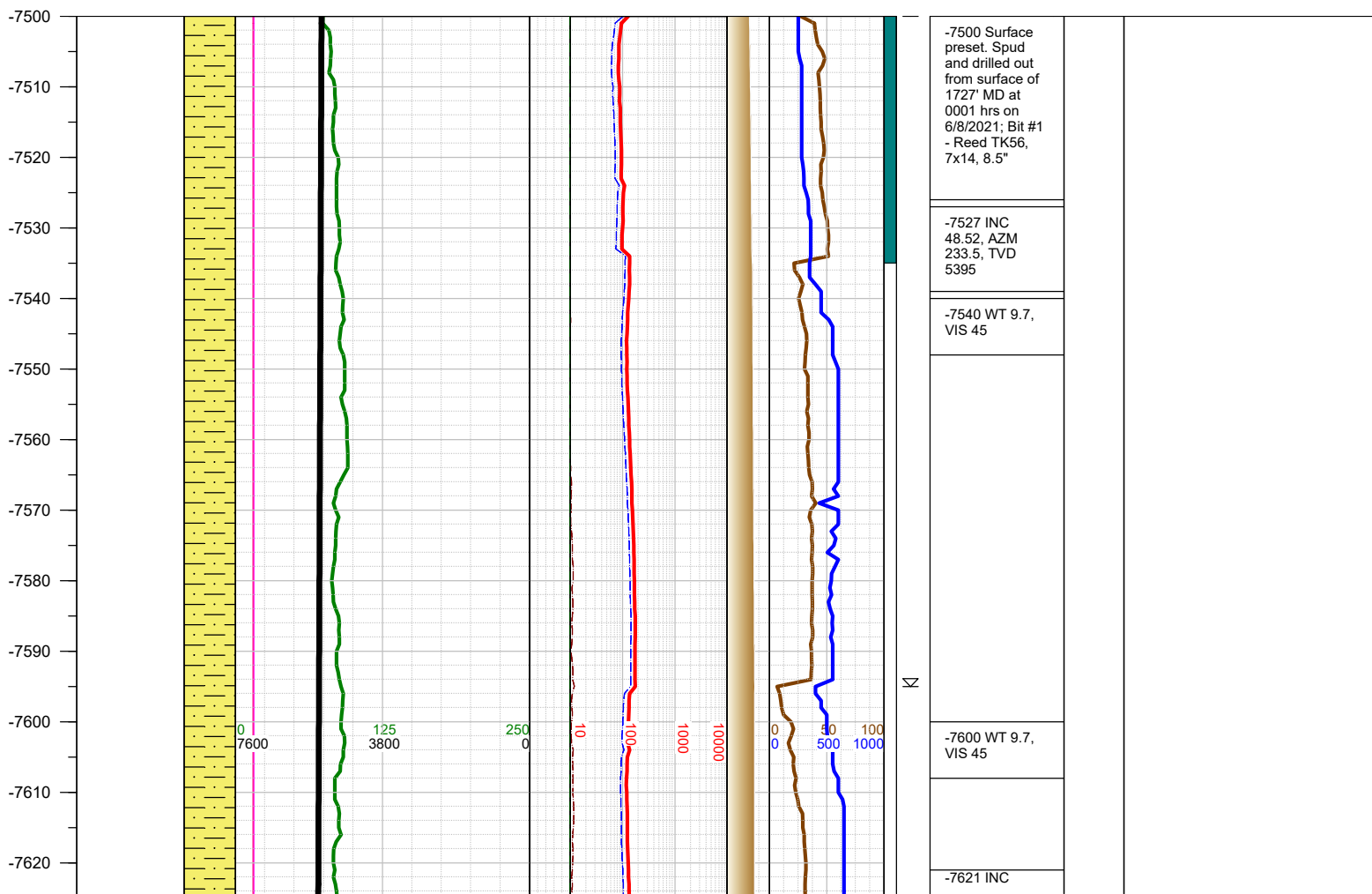
COUNTY: Weld
 STATE: Colorado
 GROUND ELEVATION: 5088'
 KELLY BUSHING: 5115'
 DRILLING FLUID: OBM
 TVD VS. MD: 7213' / 19976'
 SPUD DATE: June 8, 2021
 TD DATE: June 11, 2021
 DEPTHS LOGGED: 7500' - 19976'
 DATES LOGGED: June 8, 2021 - June 11, 2021
 GEOLOGISTS: Ross Apodaca, Kyle Newman
 SCALE: 5" = 100'

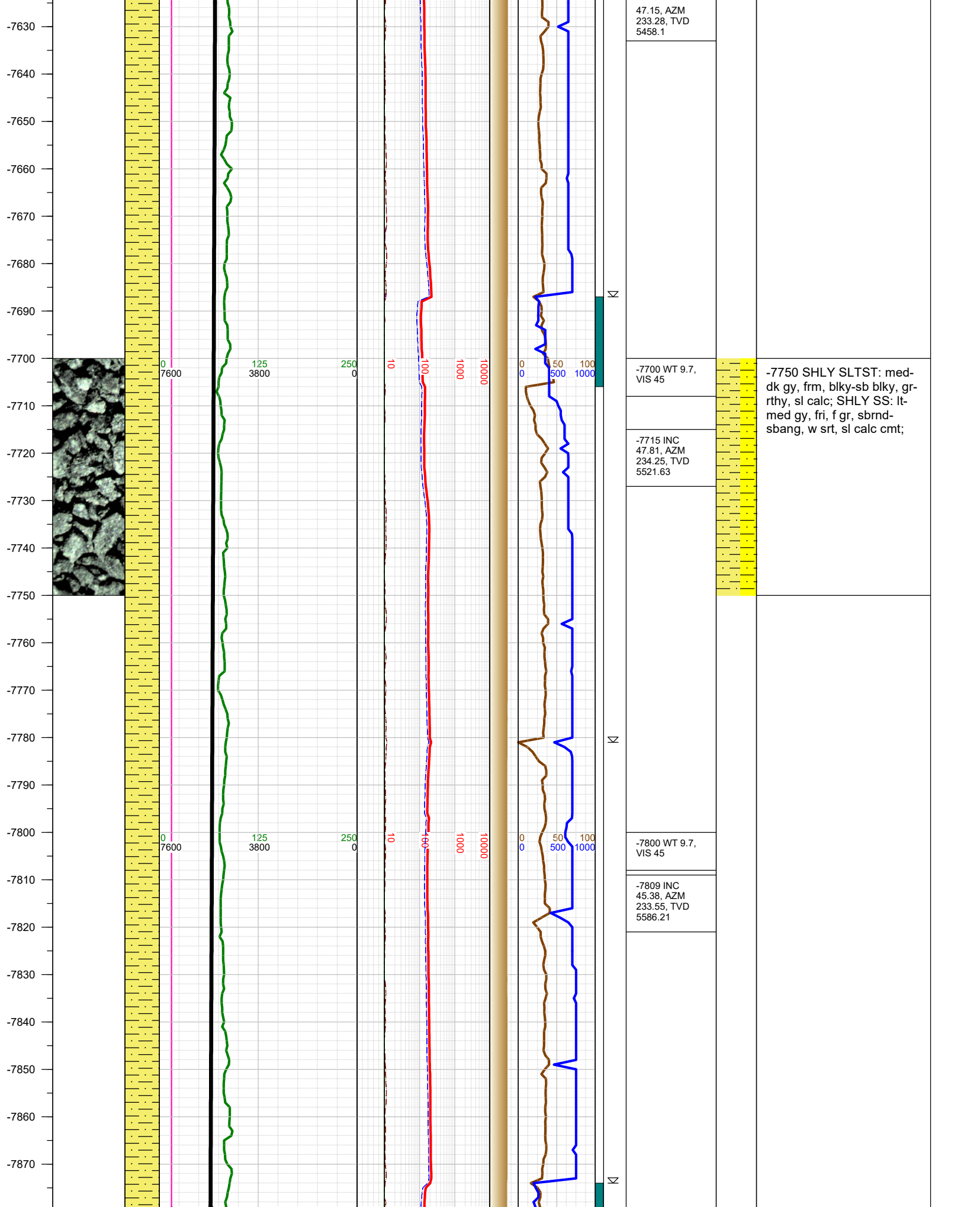
LEGEND

	CHALK		SHALE
	LIMESTONE		SILTY SHALE
	SHALY LIMESTONE		SHALY SILTSTONE
	MARLSTONE		SHALY SANDSTONE
	CALCAREOUS SHALE		SANDSTONE
	DOLOMITE		ANHYDRITE

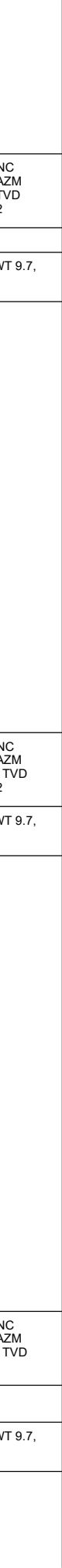
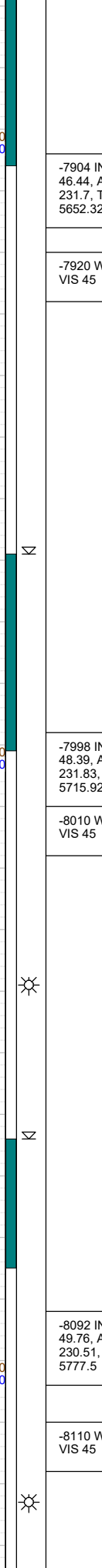
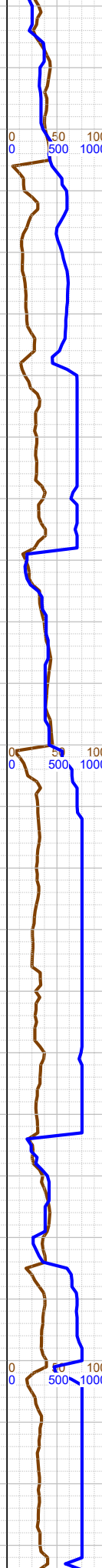
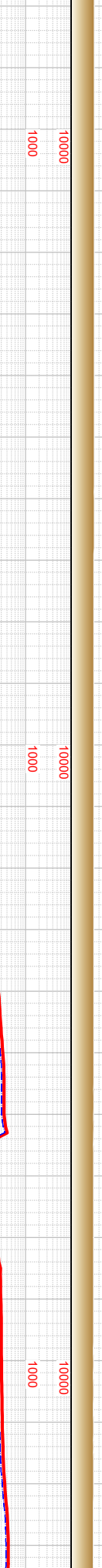
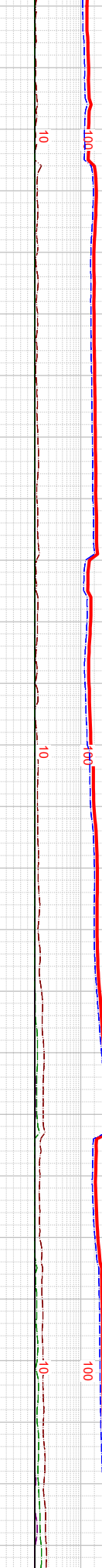
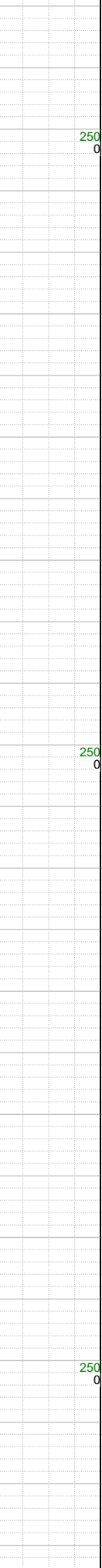
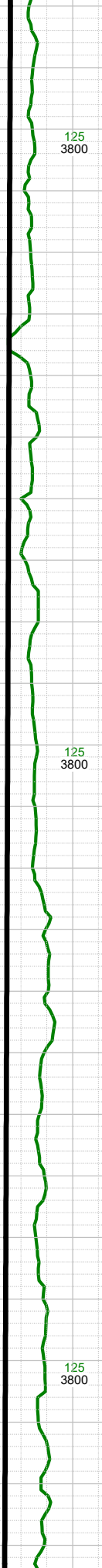
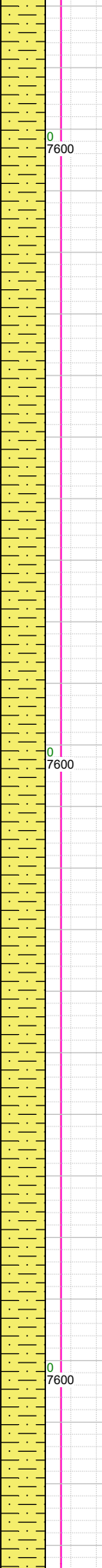
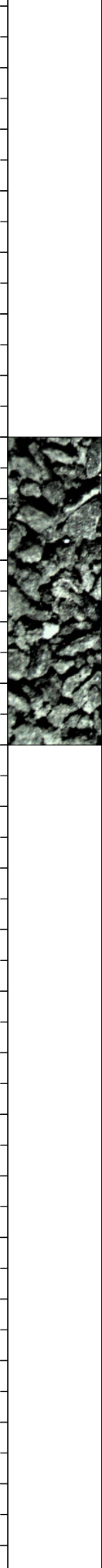
◀ FORMATION ≈ CONNECTION ▲ MIDNIGHT 🏠 NEW BIT ☀ GAS SHOW 🗲 FAULT

MEASURED DEPTH (FT)	PHOTOS	MUDLOGGER INTERP	GEOSTEERING INTERP		OIL SHOWS	GAS	MUD VOL. 800 bbl	ROF ft/hr 1000	WOB klbs 100	SLIDES SYMBOLS	COMMENTS	CUTTINGS %	SAMPLE DESCRIPTION
			Target Top / Base	TVD ft									
			7600	0		Total							
			0	250		C1							
						C2							
						C3							
						C4							





-7880
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-7990
-8000
-8010
-8020
-8030
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-8050
-8060
-8070
-8080
-8090
-8100
-8110
-8120
-8130



-7904 INC
46.44, AZM
231.7, TVD
5652.32

-7920 WT 9.7,
VIS 45

-8000 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;

-7998 INC
48.39, AZM
231.83, TVD
5715.92

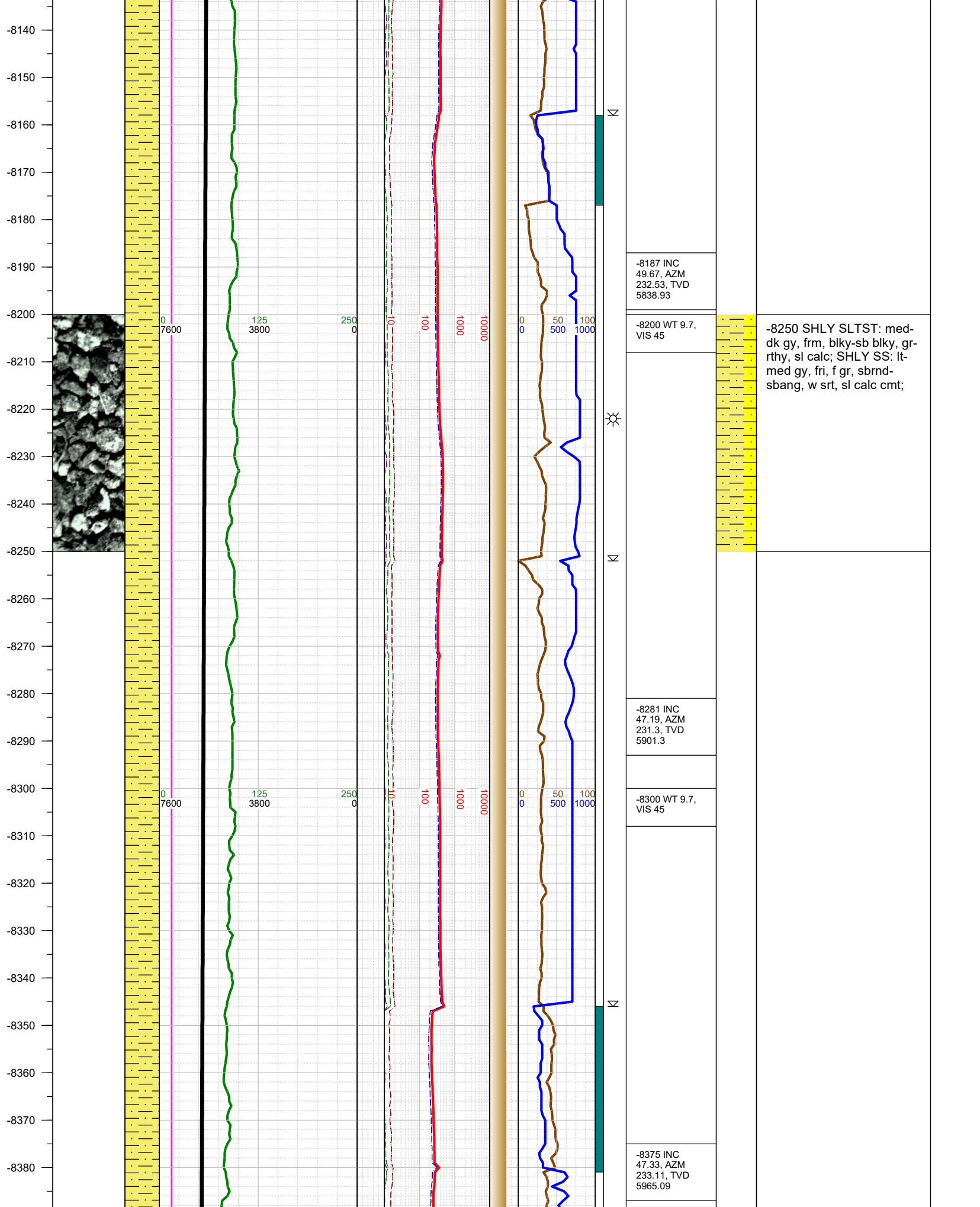
-8010 WT 9.7,
VIS 45



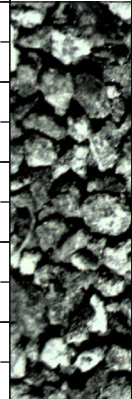
-8092 INC
49.76, AZM
230.51, TVD
5777.5

-8110 WT 9.7,
VIS 45





-8140
-8150
-8160
-8170
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7600

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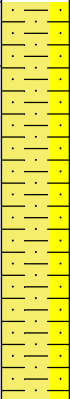
-8187 INC
49.67, AZM
232.53, TVD
5838.93

-8200 WT 9.7,
VIS 45

-8281 INC
47.19, AZM
231.3, TVD
5901.3

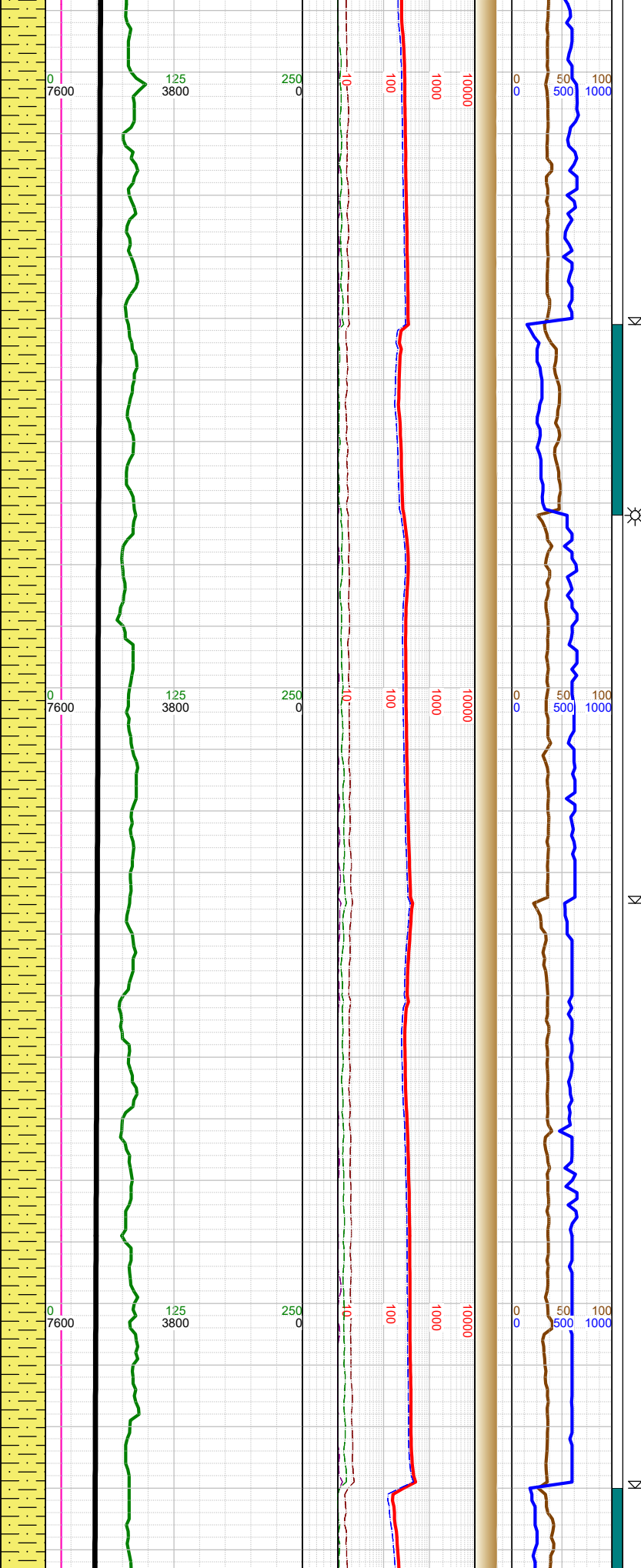
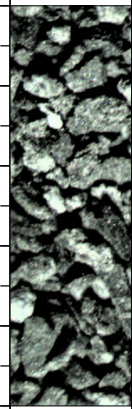
-8300 WT 9.7,
VIS 45

-8375 INC
47.33, AZM
233.11, TVD
5965.09



-8250 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;

-8390
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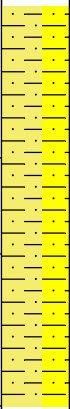
-8400 WT 9.8,
VIS 45

-8469 INC
50.33, AZM
232.97, TVD
6026.97

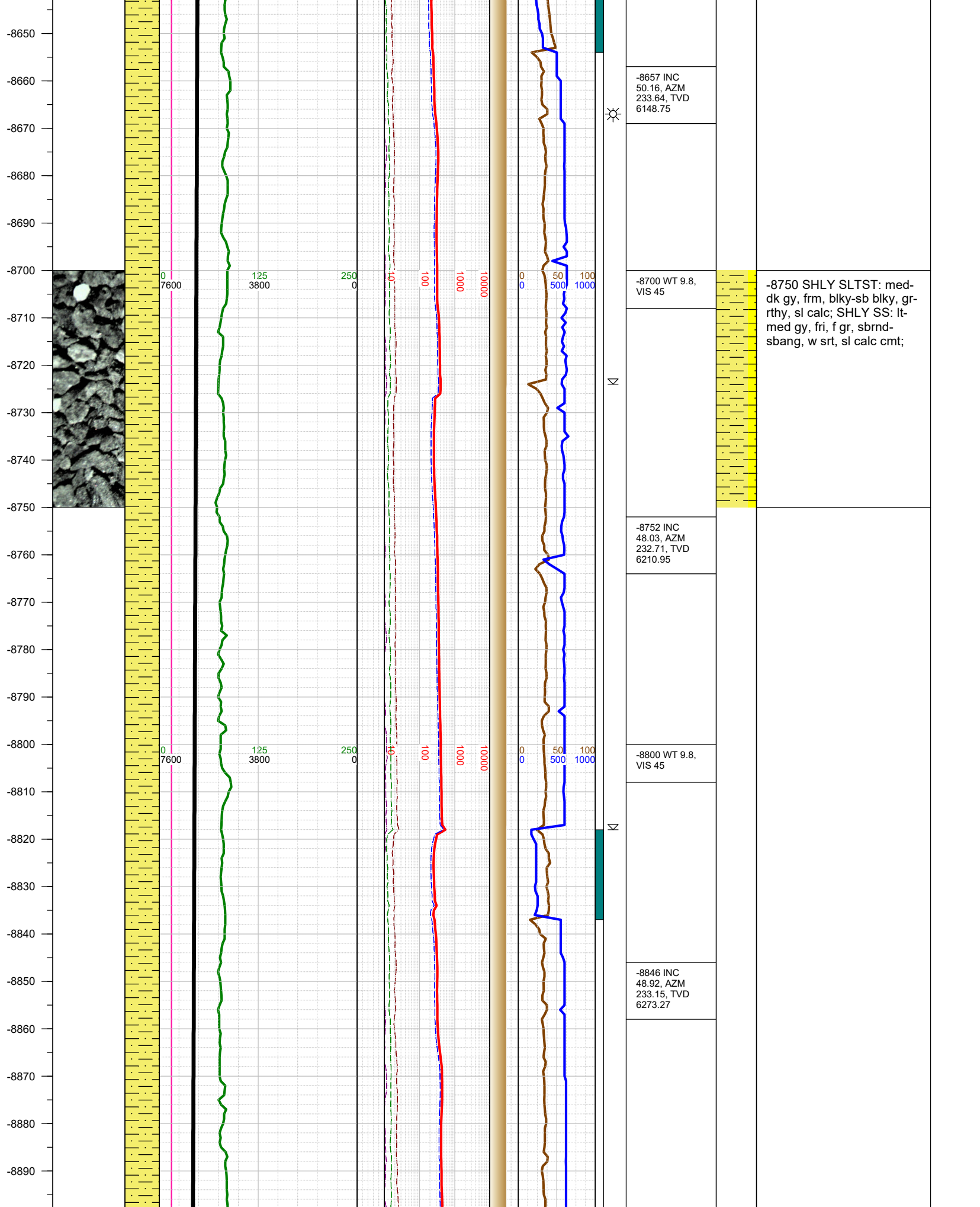
-8500 WT 9.8,
VIS 45

-8563 INC
49.01, AZM
232.09, TVD
6087.8

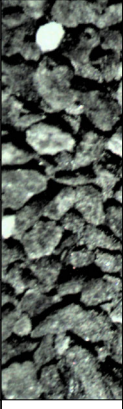
-8600 WT 9.8,
VIS 45



-8500 SHLY SLTST: med-
dk gy, frm, blkly-sb blkly, gr-
rthy, sl calc; SHLY SS: lt-
med gy, fri, f gr, sbrnd-
sbang, w srt, sl calc cmt;



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7600

125
3800

250
0

100

1000

10000

0
0

50
500

100
1000

-8657 INC
50.16, AZM
233.64, TVD
6148.75

-8700 WT 9.8,
VIS 45

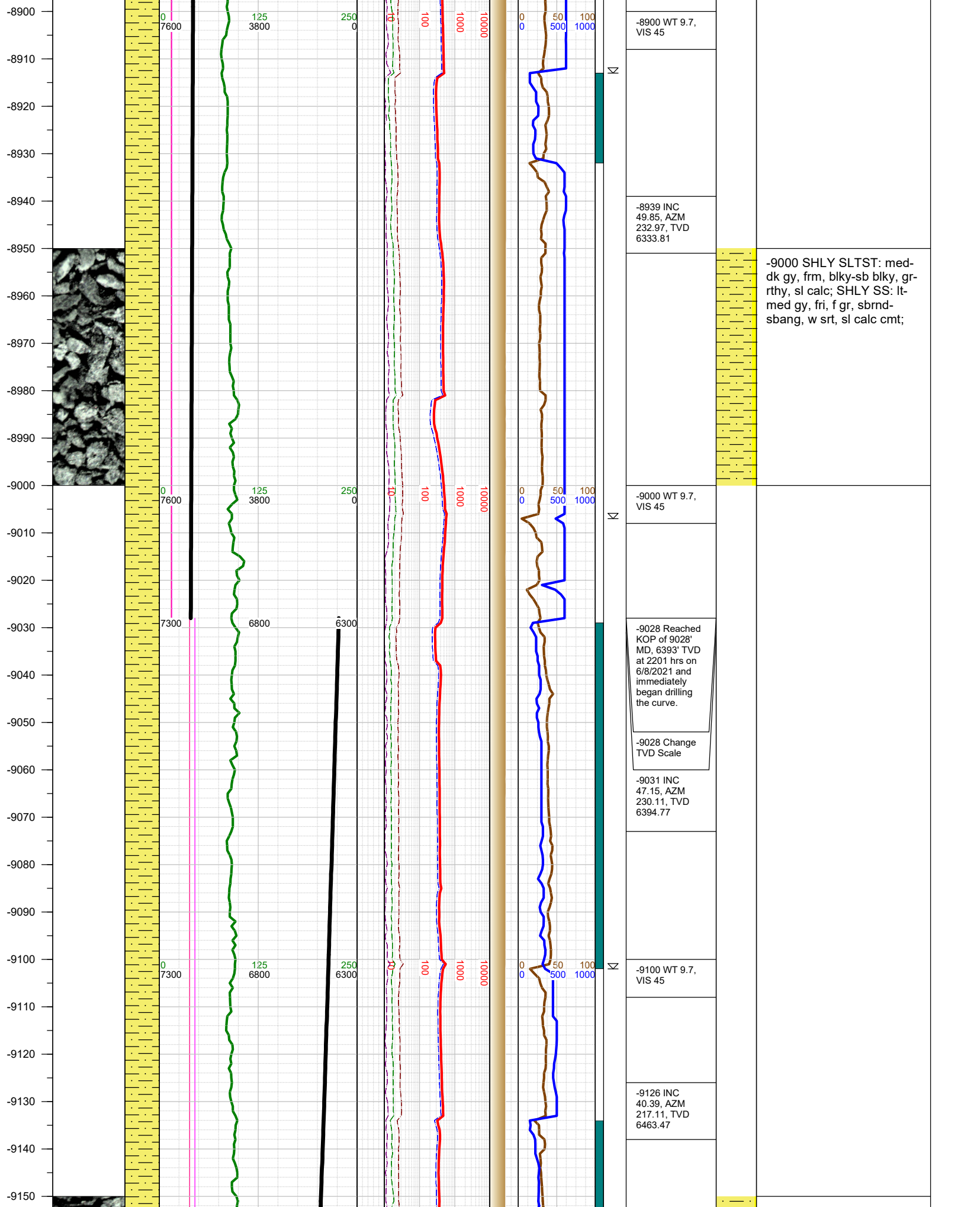
-8750 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt;

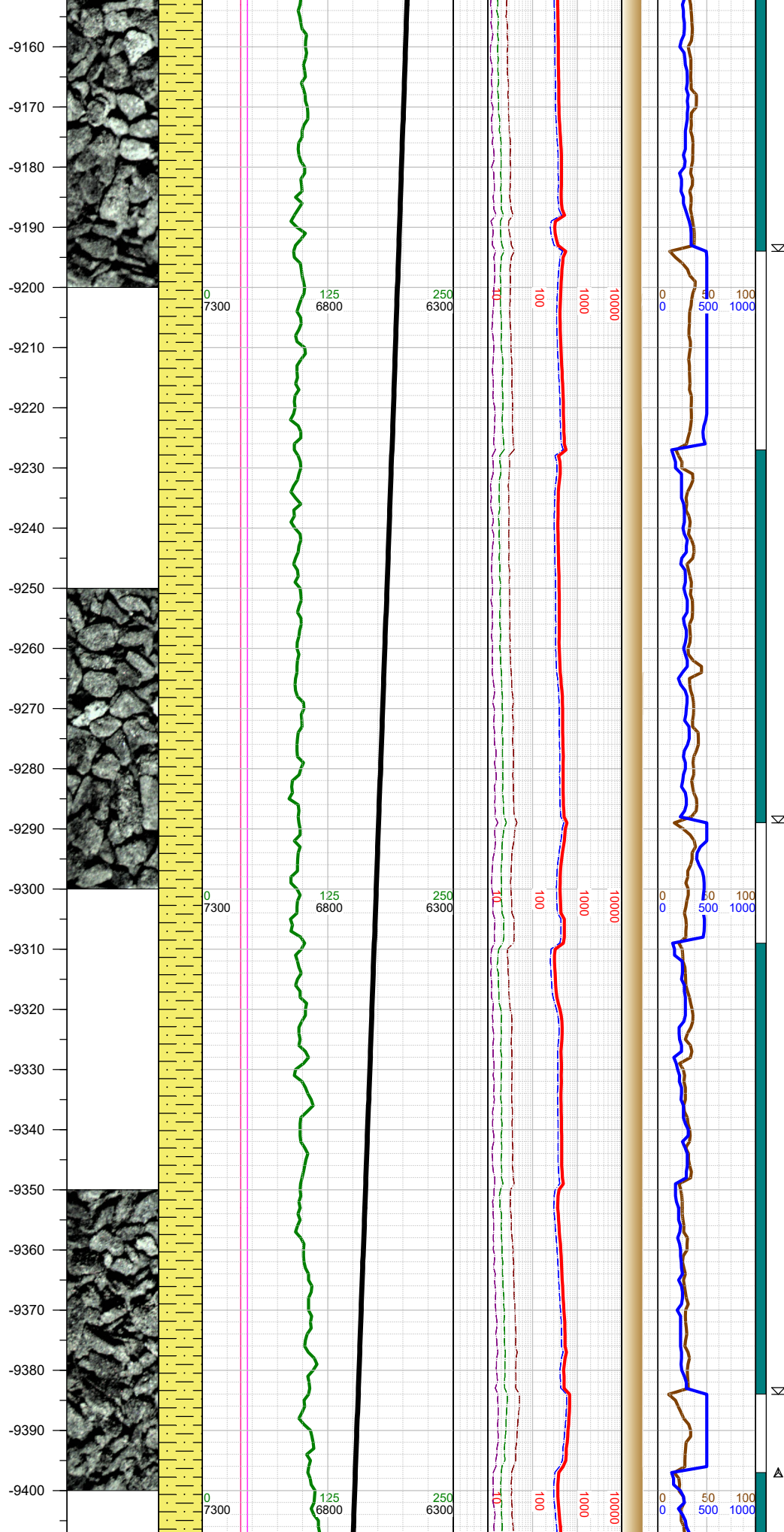
-8752 INC
48.03, AZM
232.71, TVD
6210.95

-8800 WT 9.8,
VIS 45

-8846 INC
48.92, AZM
233.15, TVD
6273.27







-9200 SHLY SLTST: med-dk gy, frm, blkly-sb blkly, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbmnd-sbang, w srt, sl calc cmt;

-9200 WT 9.7, VIS 45

-9220 INC 32.74, AZM 204.51, TVD 6539.02

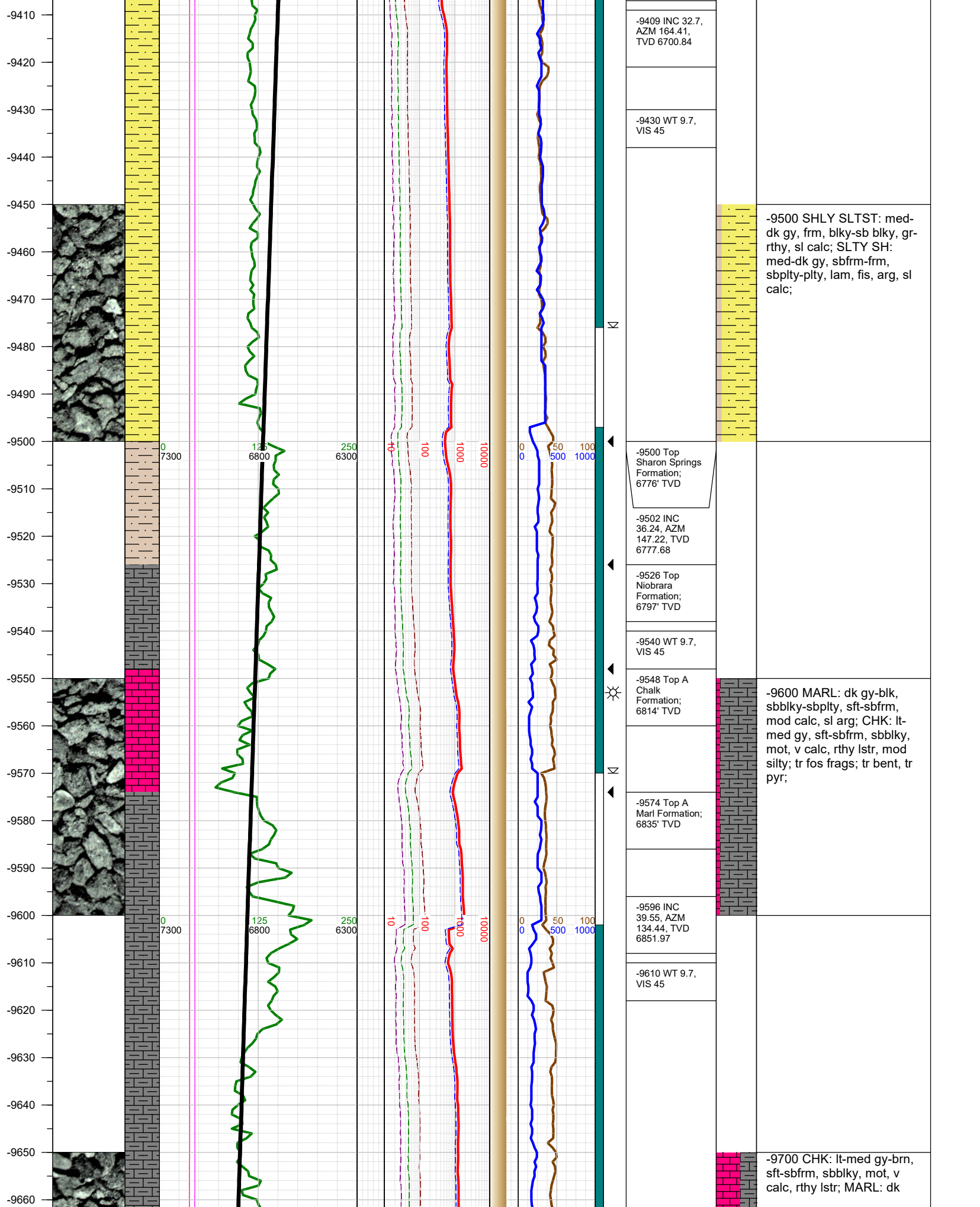
-9300 SHLY SLTST: med-dk gy, frm, blkly-sb blkly, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbmnd-sbang, w srt, sl calc cmt;

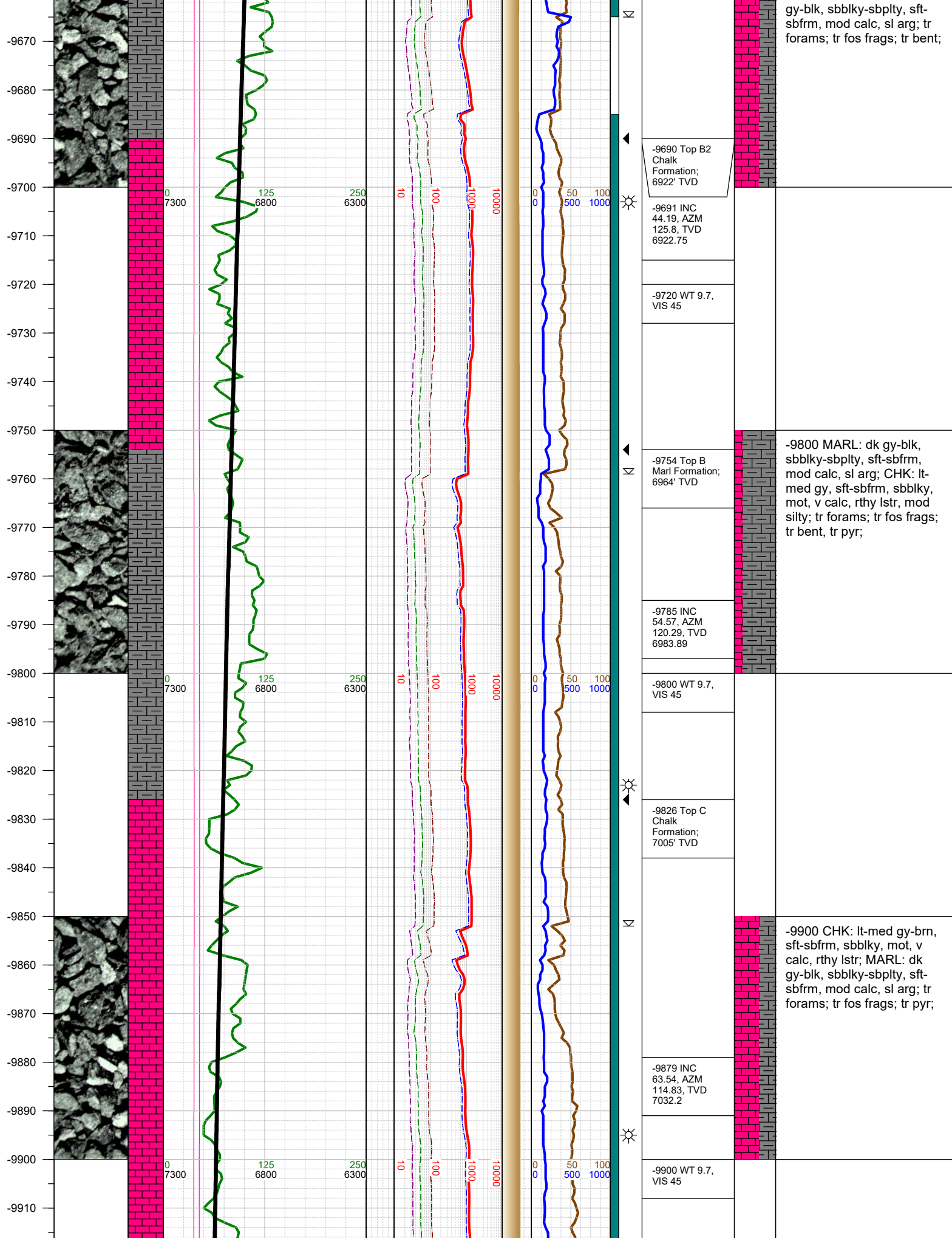
-9300 WT 9.7, VIS 45

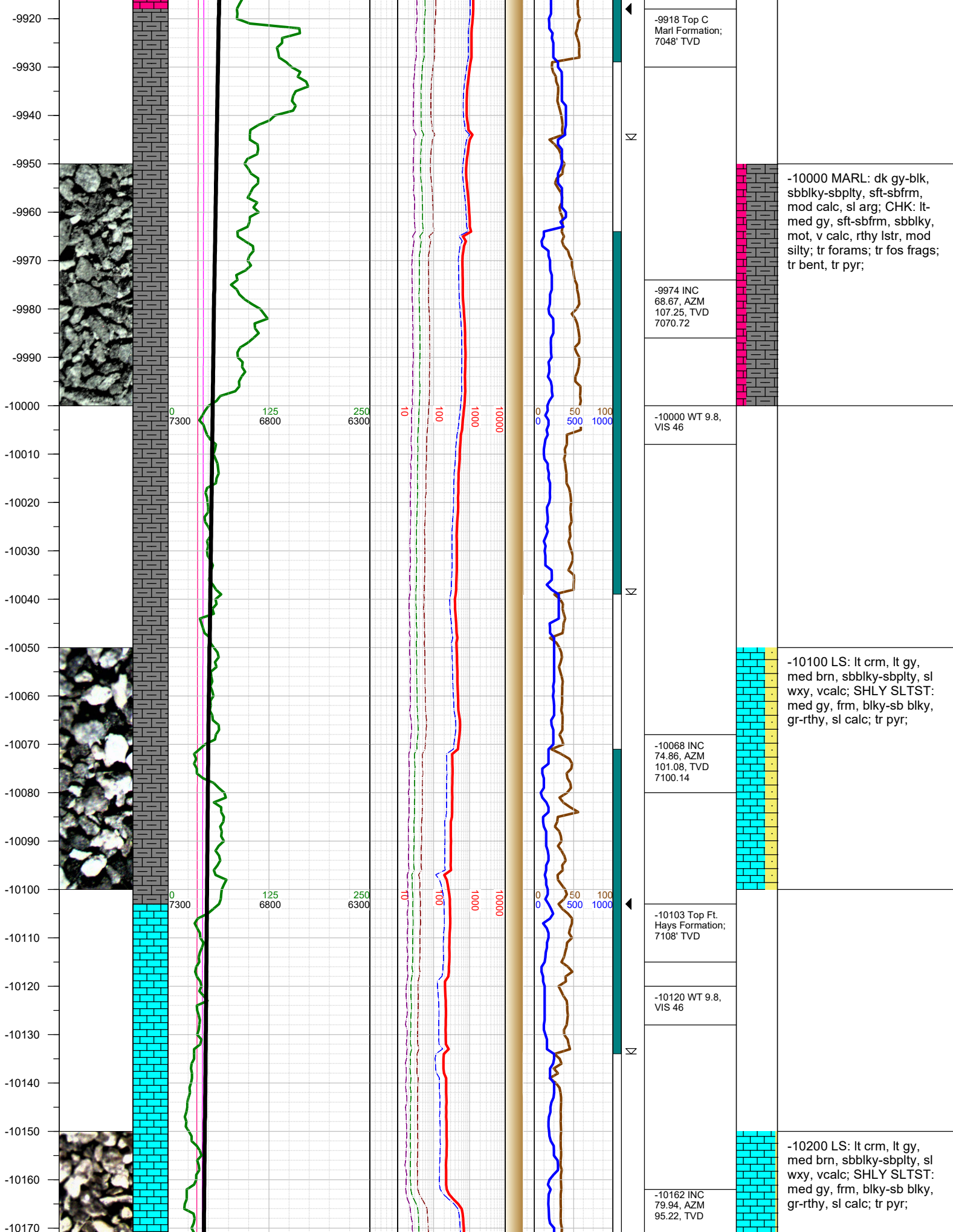
-9314 INC 30, AZM 184.76, TVD 6619.49

-9400 SHLY SLTST: med-dk gy, frm, blkly-sb blkly, gr-rthy, sl calc; SLTY SH: med-dk gy, sbfrm-frm, sbppty-plty, lam, fis, arg, sl calc;

-9397 0000 hrs on 6/9/2021







-9918 Top C
Marl Formation;
7048' TVD

-10000 MARL: dk gy-blk,
sbbkly-sbplty, sft-sbfrm,
mod calc, sl arg; CHK: lt-
med gy, sft-sbfrm, sbbkly,
mot, v calc, rthy lstr, mod
silty; tr forams; tr fos frags;
tr bent, tr pyr;

-9974 INC
68.67, AZM
107.25, TVD
7070.72

-10000 WT 9.8,
VIS 46

-10100 LS: lt crm, lt gy,
med brn, sbbkly-sbplty, sl
wxy, vcalc; SHLY SLTST:
med gy, frm, blkly-sb blkly,
gr-rthy, sl calc; tr pyr;

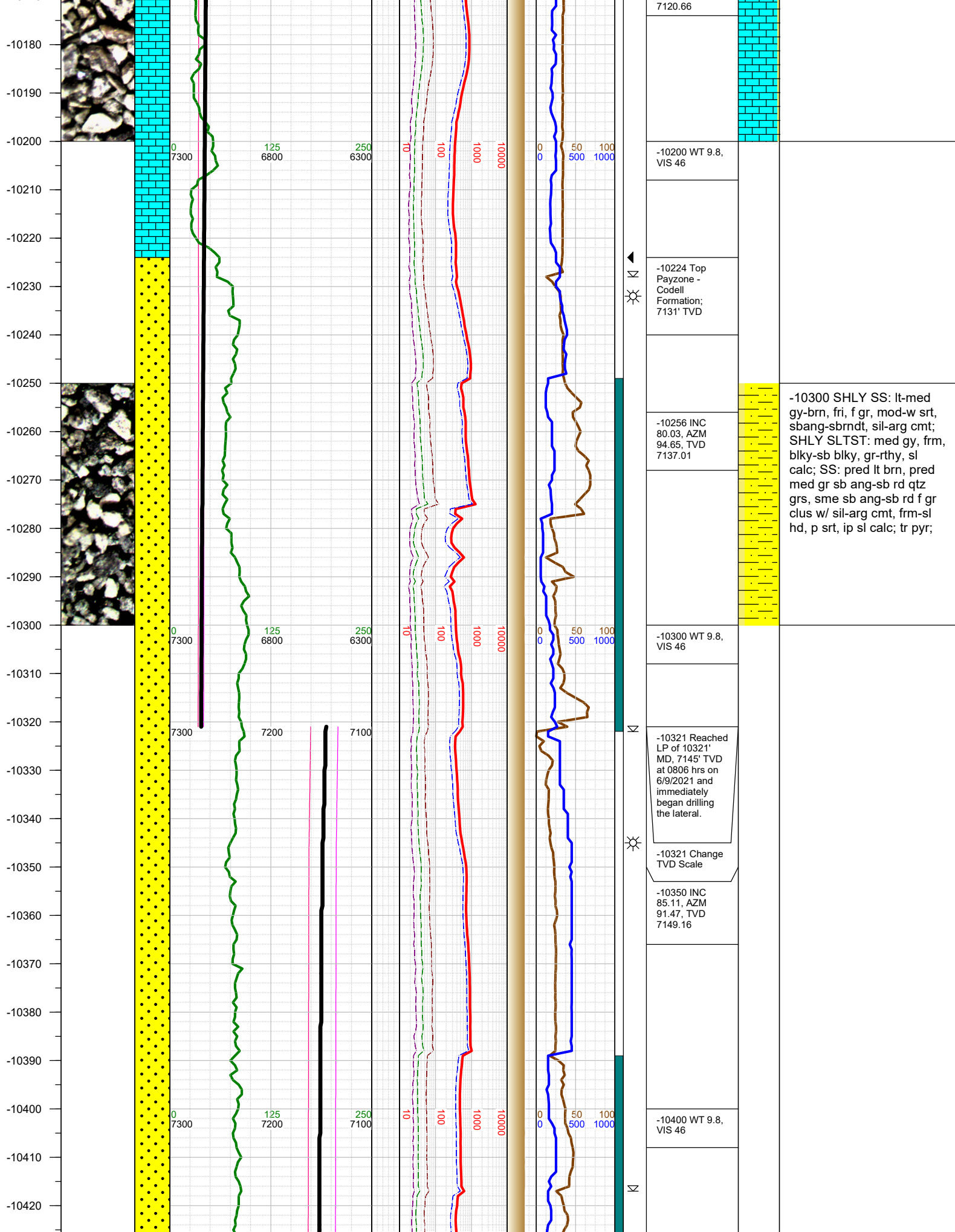
-10068 INC
74.86, AZM
101.08, TVD
7100.14

-10103 Top Ft.
Hays Formation;
7108' TVD

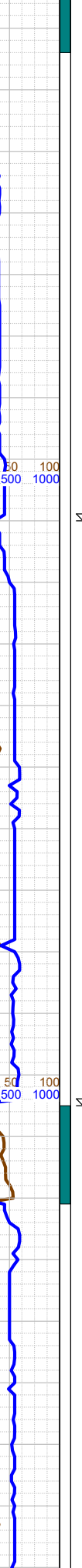
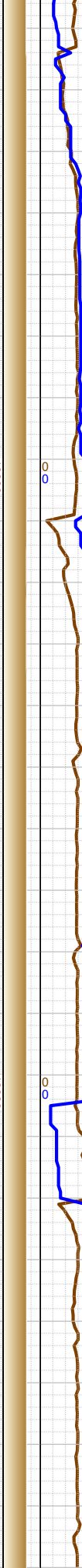
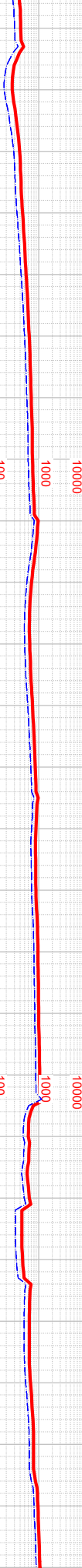
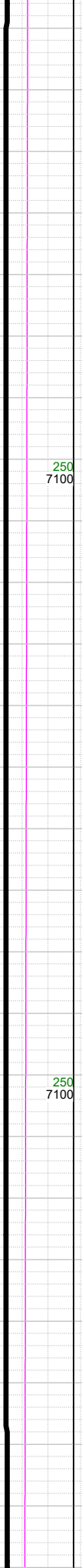
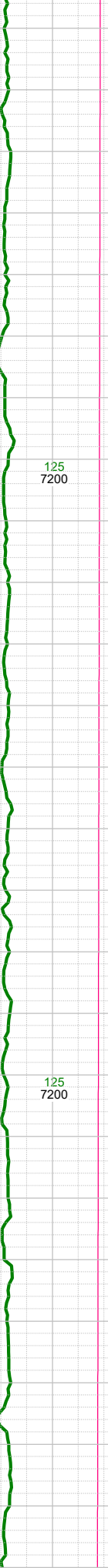
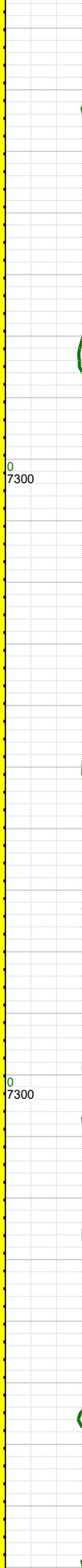
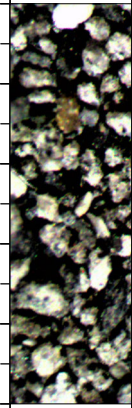
-10120 WT 9.8,
VIS 46

-10200 LS: lt crm, lt gy,
med brn, sbbkly-sbplty, sl
wxy, vcalc; SHLY SLTST:
med gy, frm, blkly-sb blkly,
gr-rthy, sl calc; tr pyr;

-10162 INC
79.94, AZM
95.22, TVD



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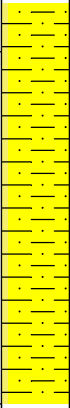
-10444 INC
90.1, AZM
89.05, TVD
7153.09

-10500 WT 9.8,
VIS 46

-10538 INC
89.79, AZM
88.26, TVD
7153.18

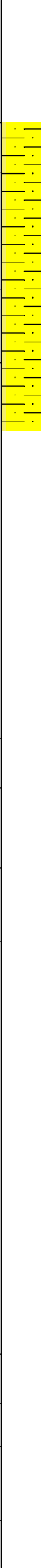
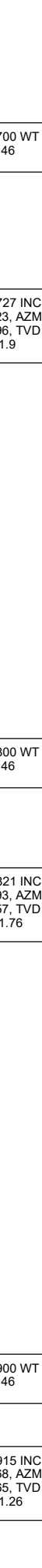
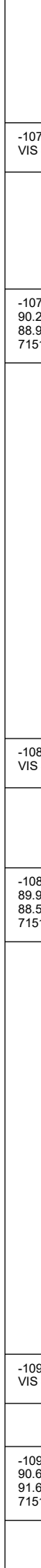
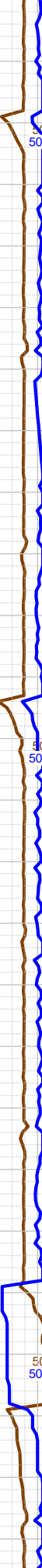
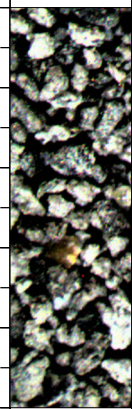
-10600 WT 9.8,
VIS 46

-10633 INC
90.77, AZM
89.54, TVD
7152.72



-10500 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; tr pyr;

-10690
-10700
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-10720
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-10740
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-10800
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-10900
-10910
-10920
-10930



-10700 WT 9.8,
VIS 46

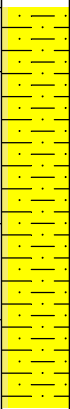
-10727 INC
90.23, AZM
88.96, TVD
7151.9

-10800 WT 9.8,
VIS 46

-10821 INC
89.93, AZM
88.57, TVD
7151.76

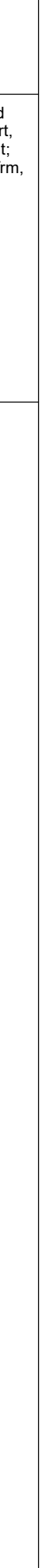
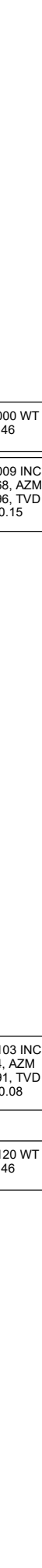
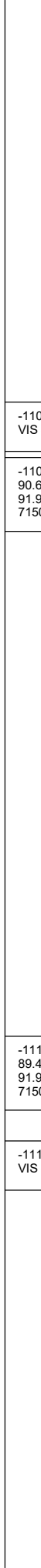
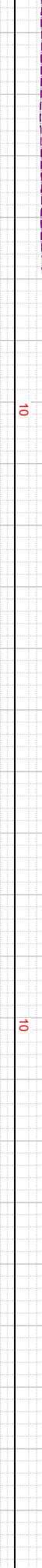
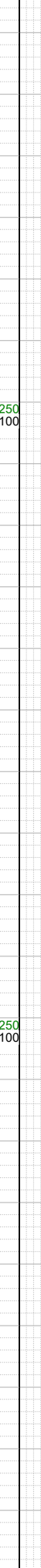
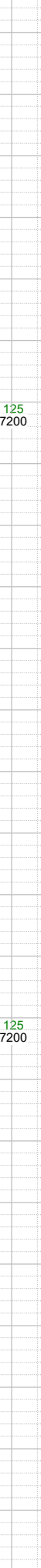
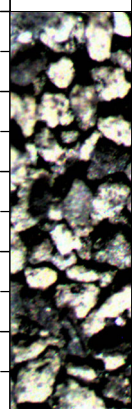
-10900 WT 9.8,
VIS 46

-10915 INC
90.68, AZM
91.65, TVD
7151.26



-10750 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; tr pyr;

-10940
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-10960
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-10980
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-11180



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-11000 WT 9.8,
VIS 46

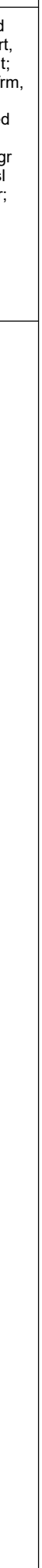
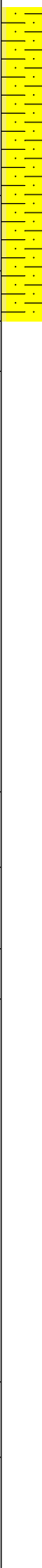
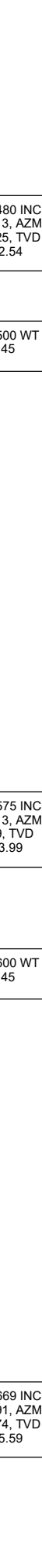
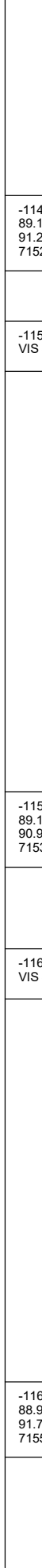
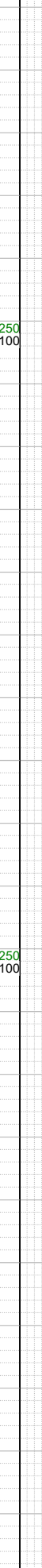
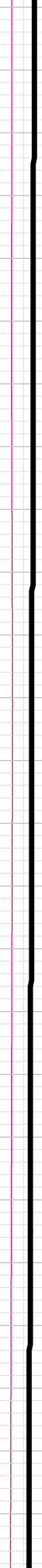
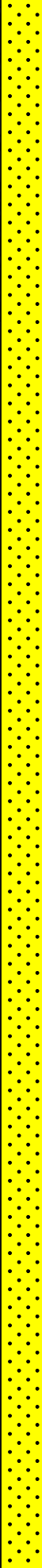
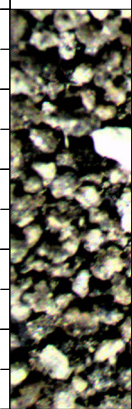
-11009 INC
90.68, AZM
91.96, TVD
7150.15

-11103 INC
89.4, AZM
91.91, TVD
7150.08

-11120 WT 9.8,
VIS 46

-11000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; tr pyr;

-11450
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-11690



-11480 INC
89.13, AZM
91.25, TVD
7152.54

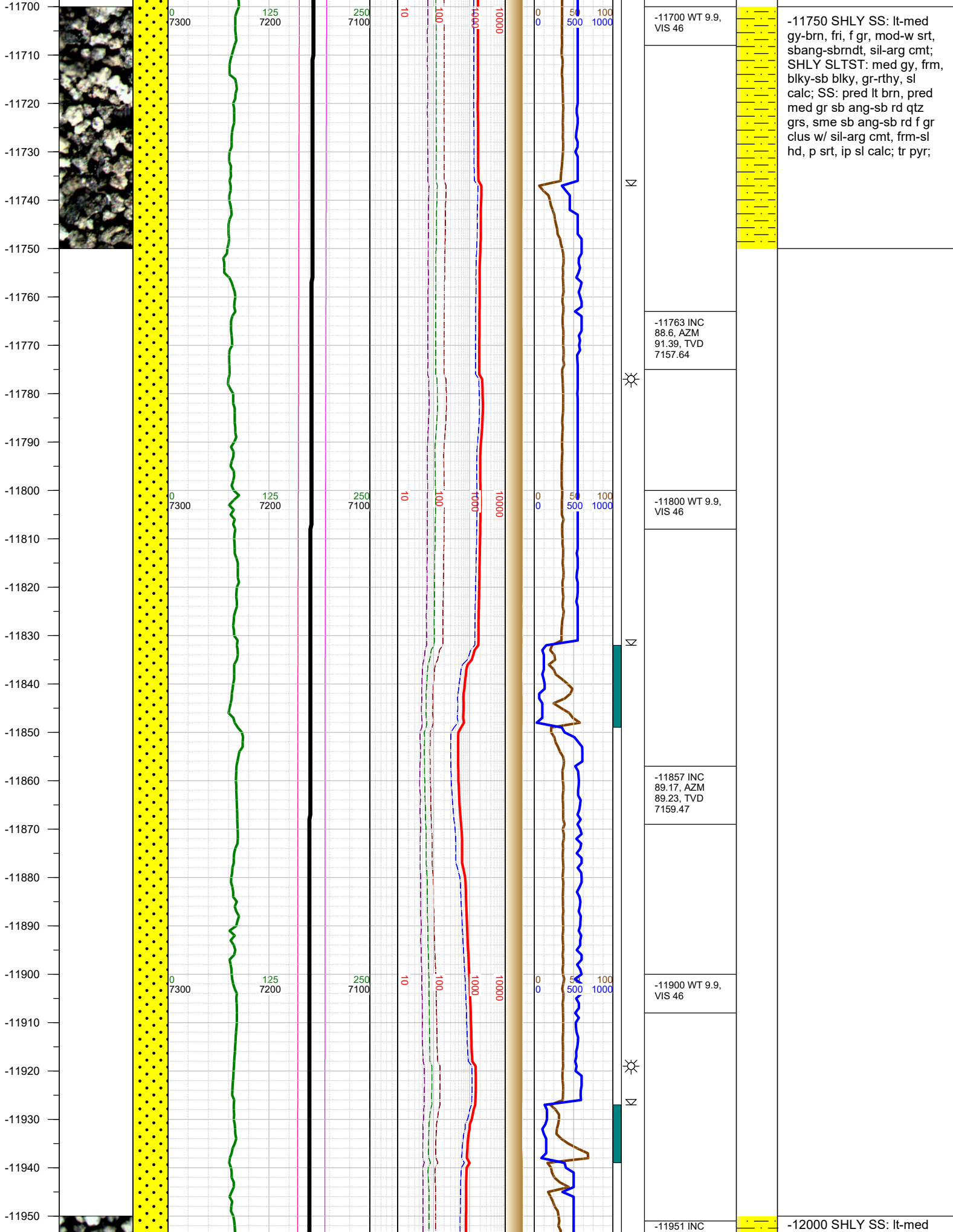
-11500 WT 9.9,
VIS 45

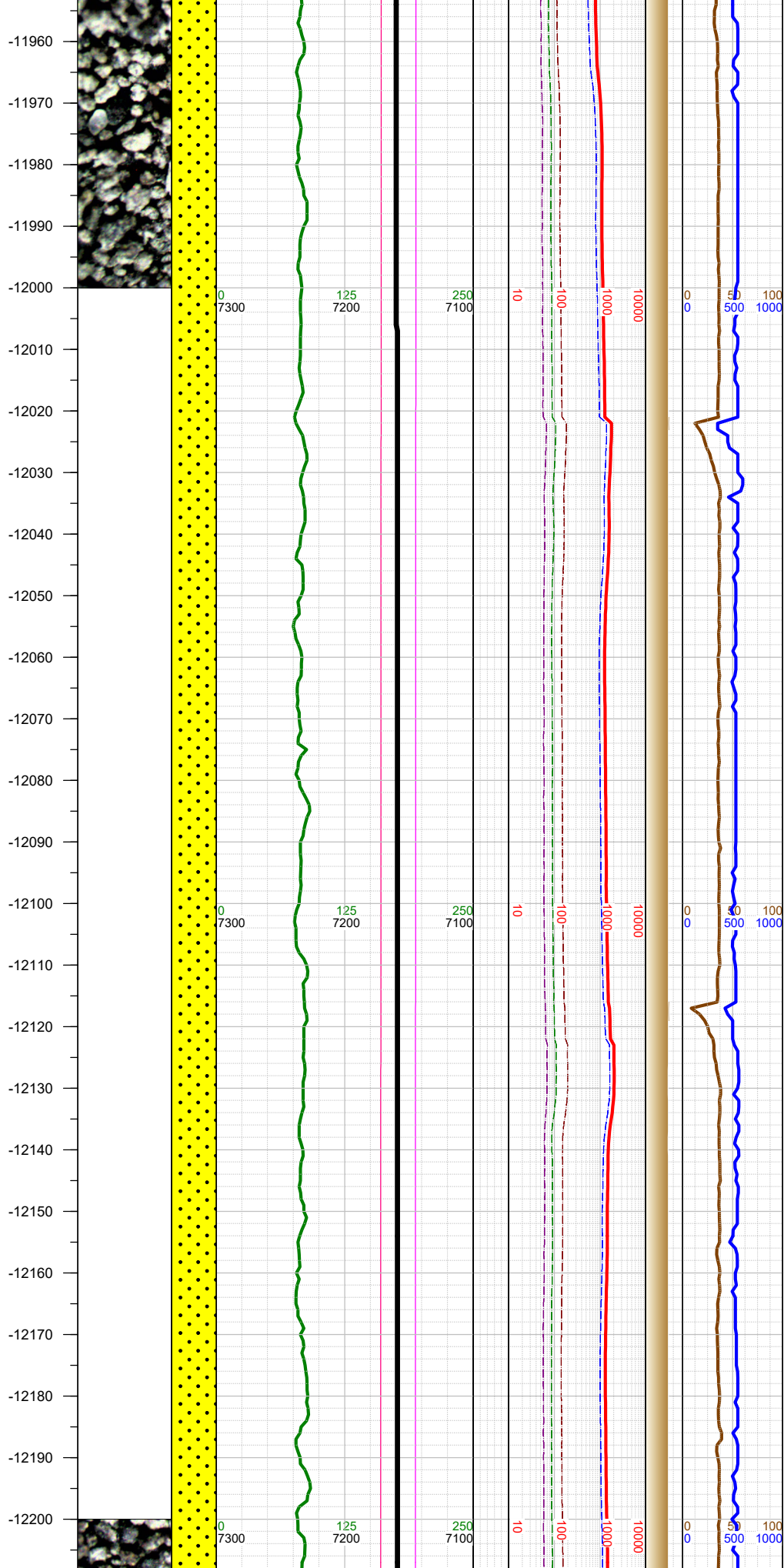
-11575 INC
89.13, AZM
90.9, TVD
7153.99

-11600 WT 9.9,
VIS 45

-11669 INC
88.91, AZM
91.74, TVD
7155.59

-11500 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;





90.46, AZM
88.92, TVD
7159.77

gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; tr pyr;

-12000 WT 9.9,
VIS 46

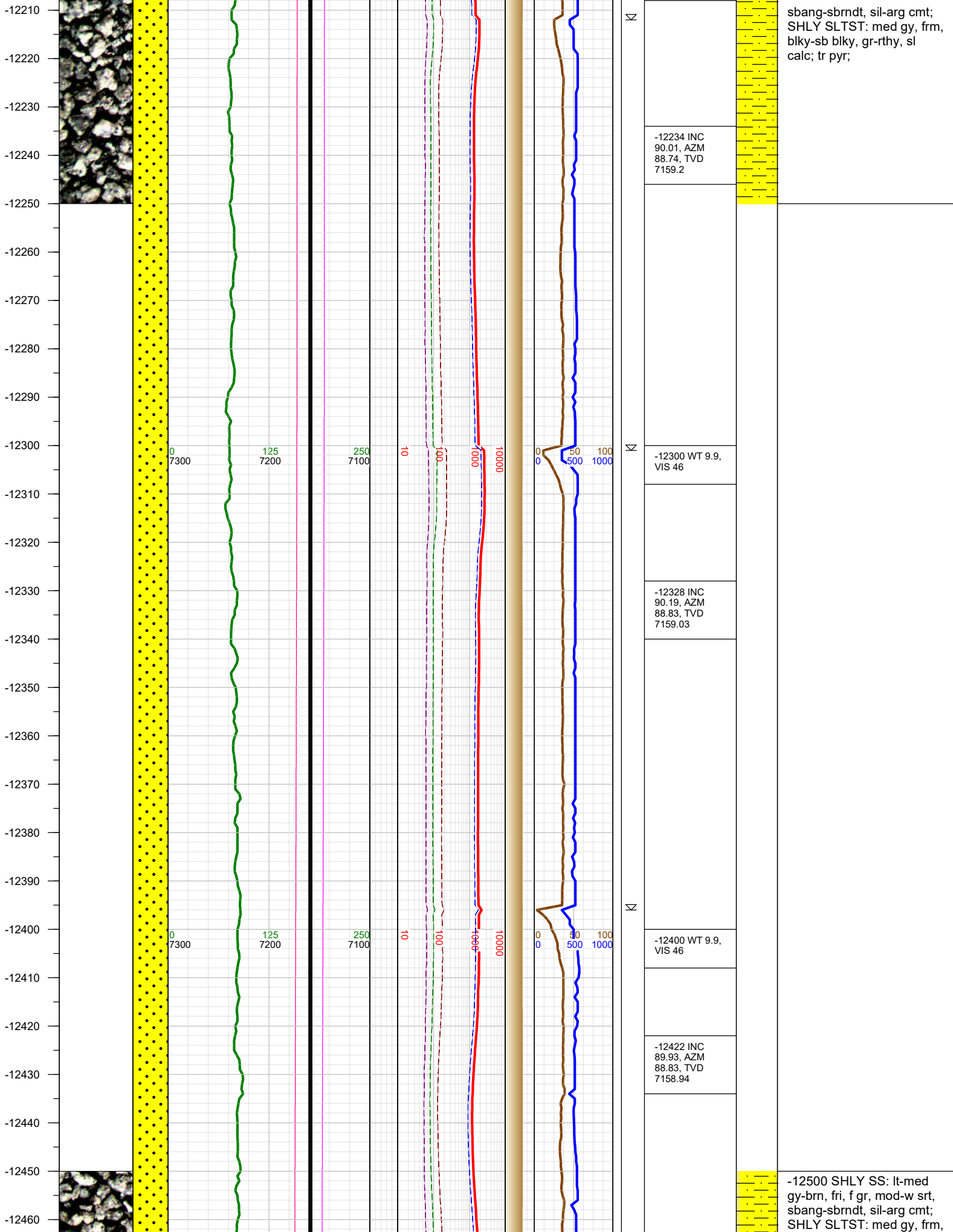
-12046 INC
90.1, AZM
89.01, TVD
7159.31

-12100 WT 9.9,
VIS 46

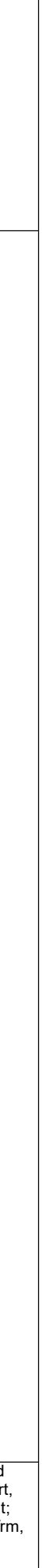
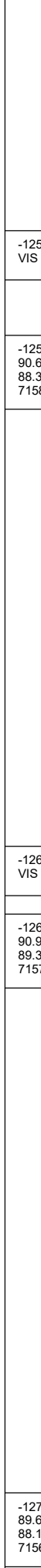
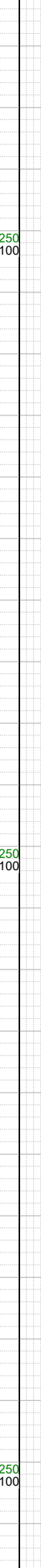
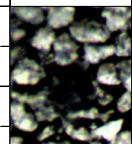
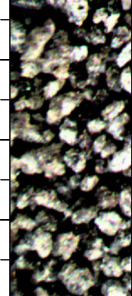
-12140 INC
90.01, AZM
88.83, TVD
7159.21

-12200 WT 9.9,
VIS 46

-12250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,



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-12500 WT 9.9,
VIS 46

-12517 INC
90.68, AZM
88.35, TVD
7158.43

-12600 WT 9.9,
VIS 46

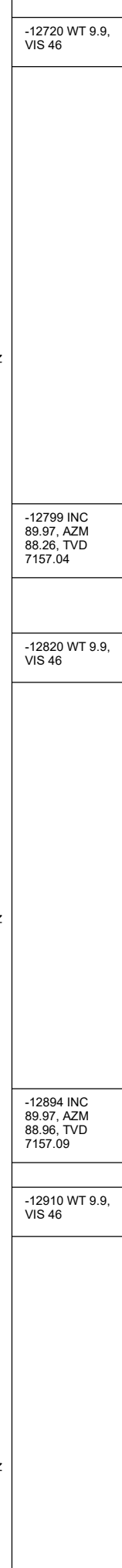
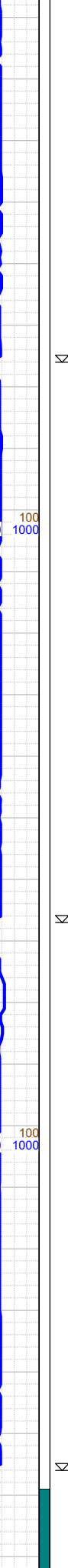
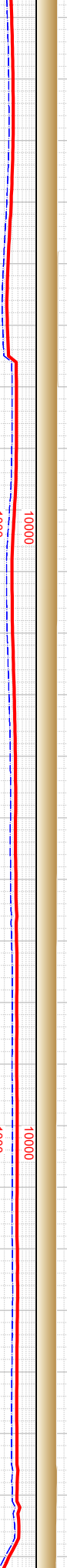
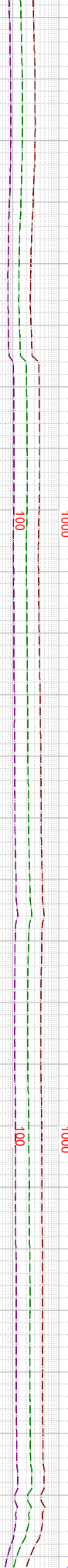
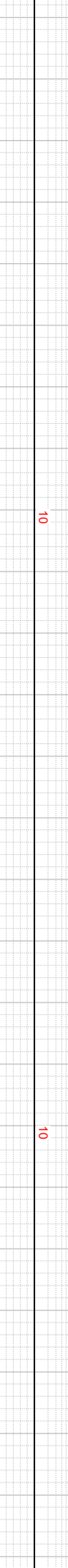
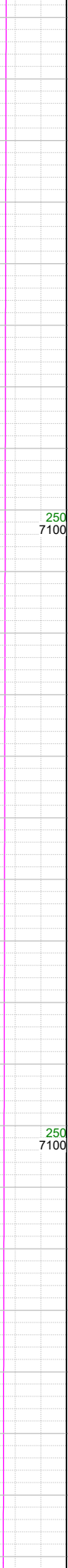
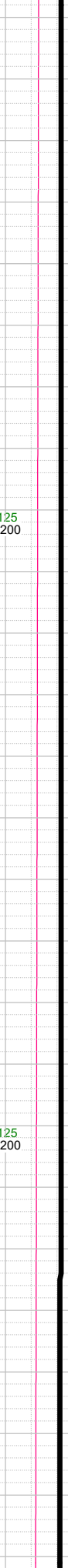
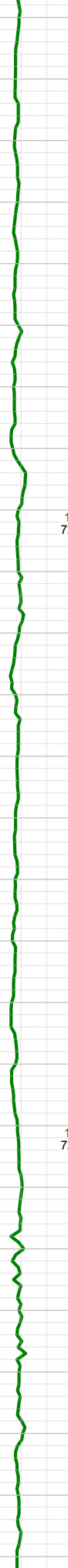
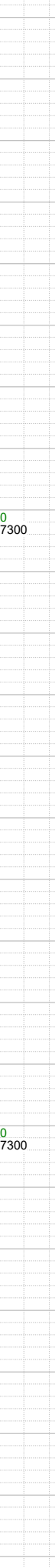
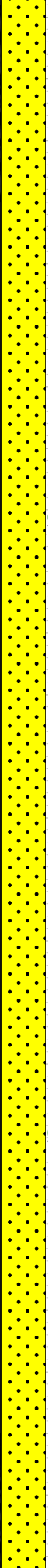
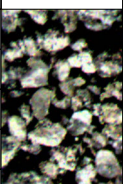
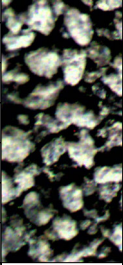
-12611 INC
90.9, AZM
89.31, TVD
7157.13

-12705 INC
89.62, AZM
88.17, TVD
7156.71

blky-sb blky, gr-rthy, sl
calc; tr pyr;

-12750 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl

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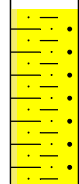
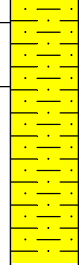
-12720 WT 9.9,
VIS 46

-12799 INC
89.97, AZM
88.26, TVD
7157.04

-12820 WT 9.9,
VIS 46

-12894 INC
89.97, AZM
88.96, TVD
7157.09

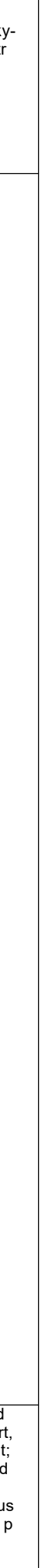
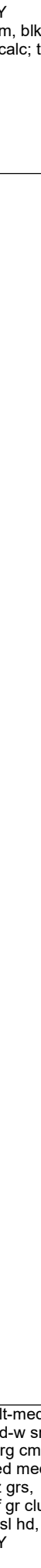
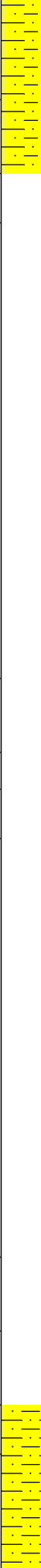
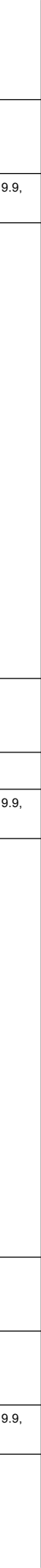
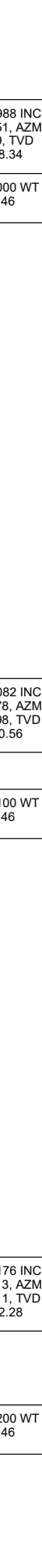
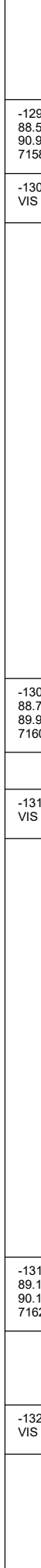
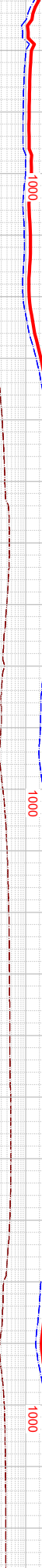
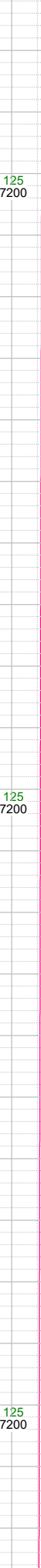
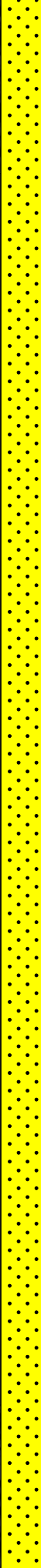
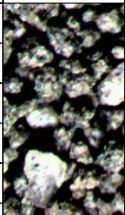
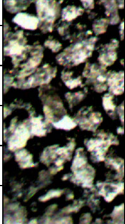
-12910 WT 9.9,
VIS 46



calc; tr pyr;

-13000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SS: pred lt brn, pred med
gr sb ang-sb rd qtz grs,
sme sb ang-sb rd f gr clus
w/ sil-arg cmt, frm-sl hd, p

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-12990
-13000
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-13150
-13160
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-13180
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-13200
-13210
-13220



-12988 INC
88.51, AZM
90.9, TVD
7158.34

-13000 WT 9.9,
VIS 46

-13082 INC
88.78, AZM
89.98, TVD
7160.56

-13100 WT 9.9,
VIS 46

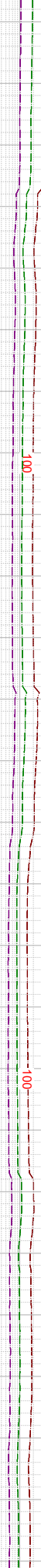
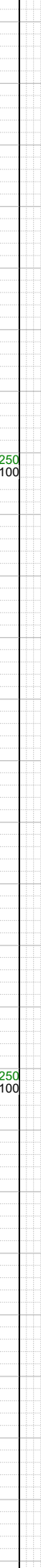
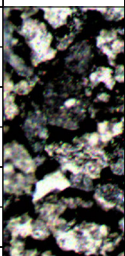
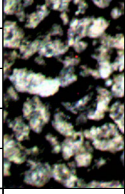
-13176 INC
89.13, AZM
90.11, TVD
7162.28

-13200 WT 9.9,
VIS 46

srt, ip sl calc; SHLY
SLTST: med gy, frm, blk-
sb blk, gr-rthy, sl calc; tr
pyr;

-13250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SS: pred lt brn, pred med
gr sb ang-sb rd qtz grs,
sme sb ang-sb rd f gr clus
w/ sil-arg cmt, frm-sl hd, p
srt, ip sl calc; SHLY

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-13270 INC
89.4, AZM
89.84, TVD
7163.48

-13300 WT 9.9,
VIS 46

-13364 INC
89.35, AZM
89.67, TVD
7164.51

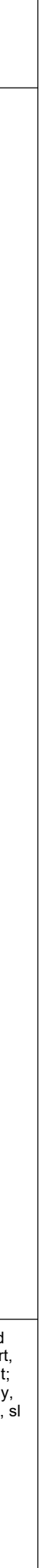
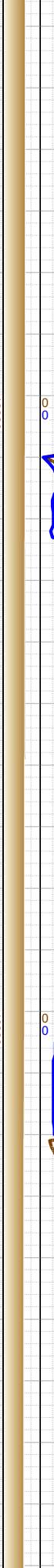
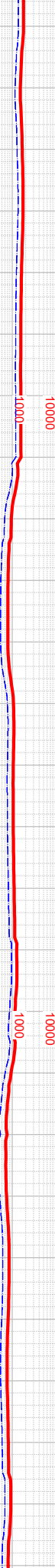
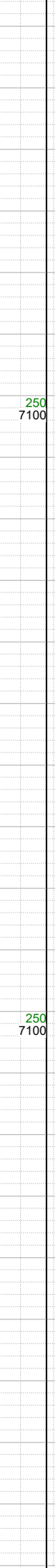
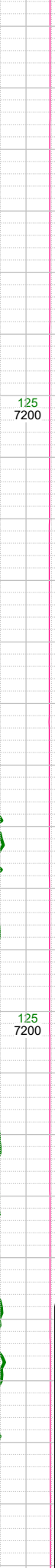
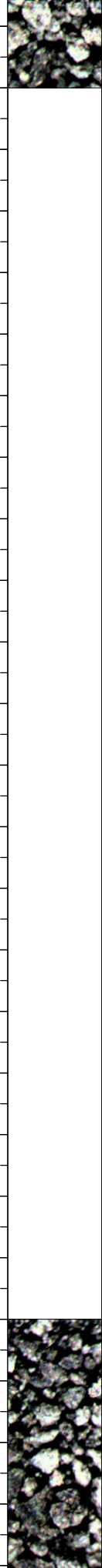
-13400 WT 9.9,
VIS 46

-13459 INC
89.09, AZM
90.81, TVD
7165.8

SLTST: med gy, frm, blk-
sb blk, gr-rthy, sl calc; tr
pyr;

-13500 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-sb blk, gr-rthy, sl
calc; tr pyr;

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-13990



-13741 INC
88.29, AZM
89.89, TVD
7171.97

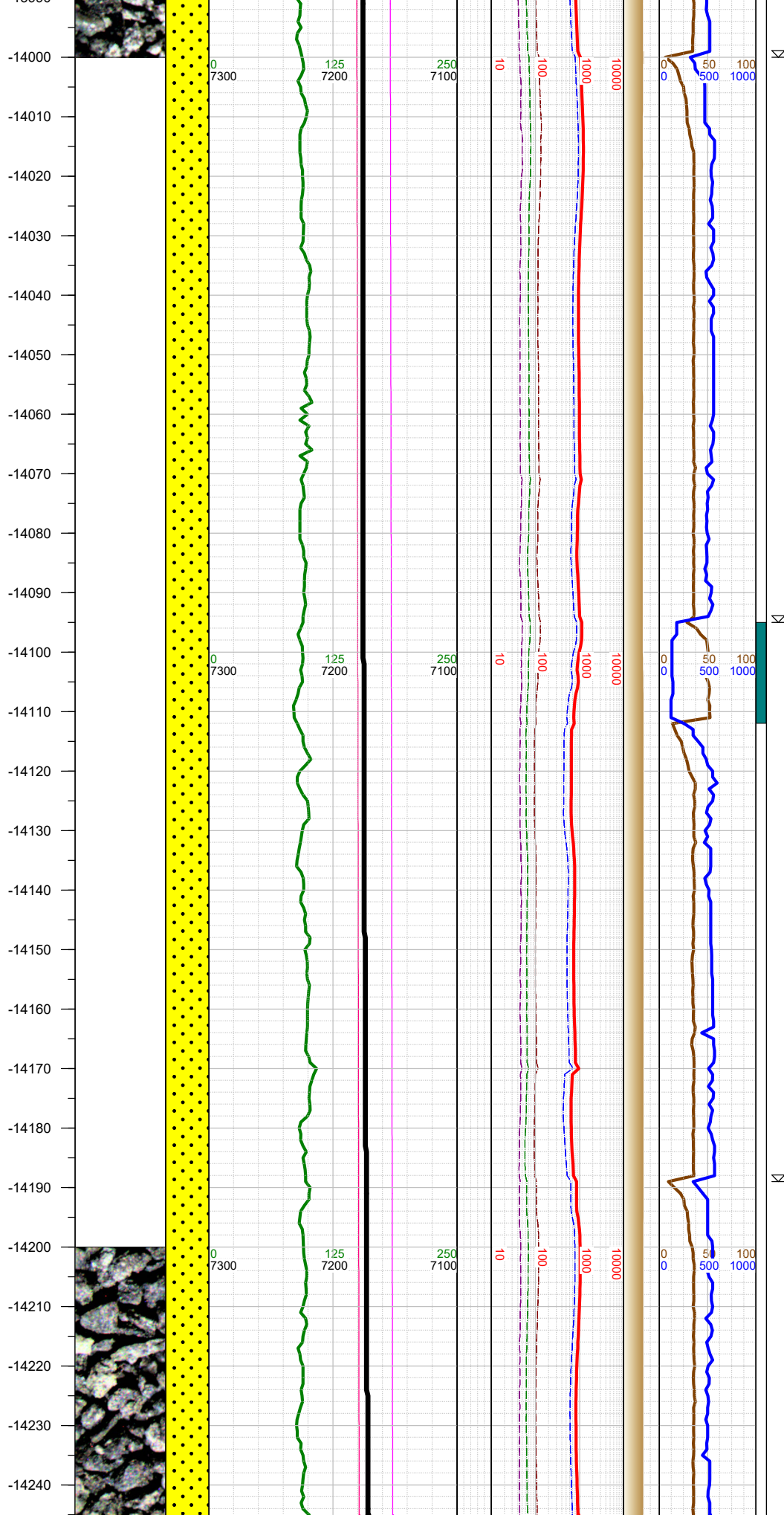
-13800 WT 9.9,
VIS 47

-13835 INC
88.95, AZM
89.84, TVD
7174.23

-13900 WT 9.9,
VIS 47

-13930 INC
89.7, AZM
91.39, TVD
7175.35

-14000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-y-sb blk-y, gr-rthy, sl
calc;



-14000 WT 9.9,
VIS 47

-14023 INC
89.35, AZM
90.99, TVD
7176.12

-14100 WT 9.9,
VIS 47

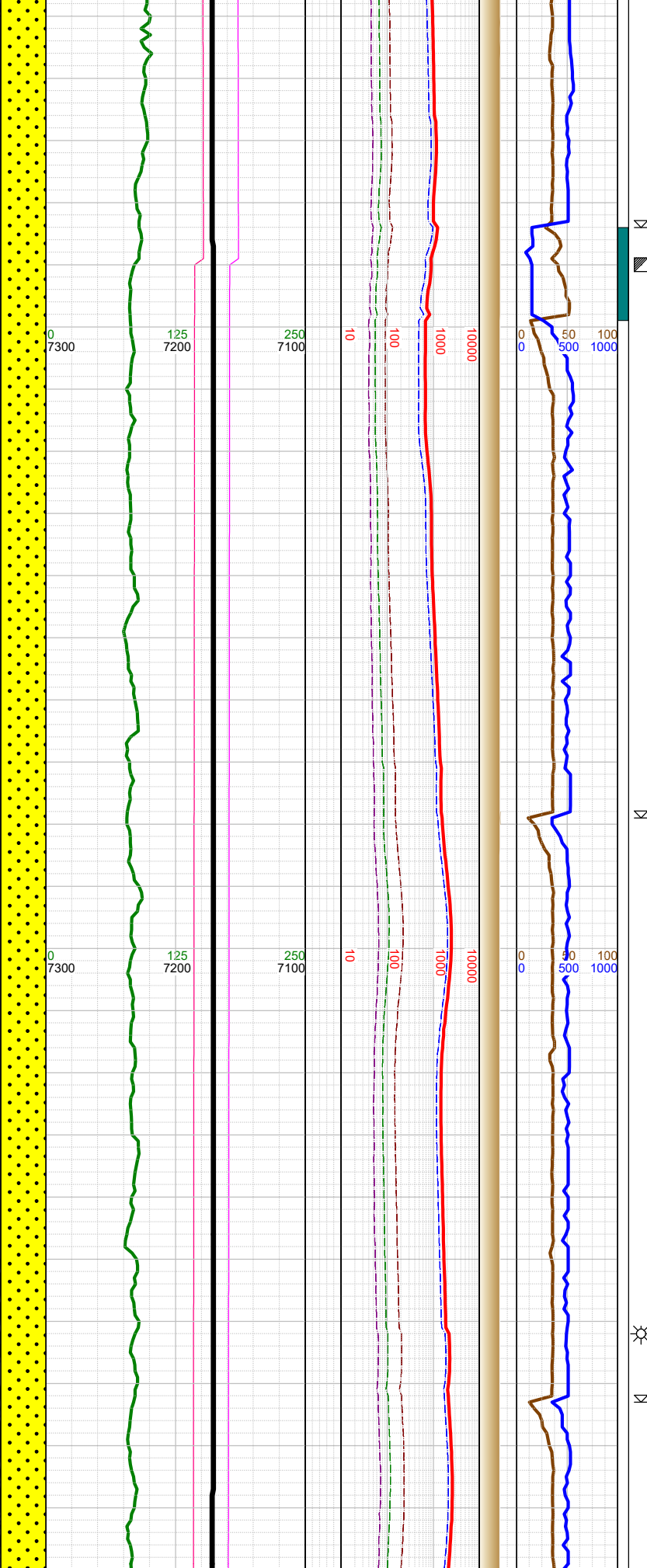
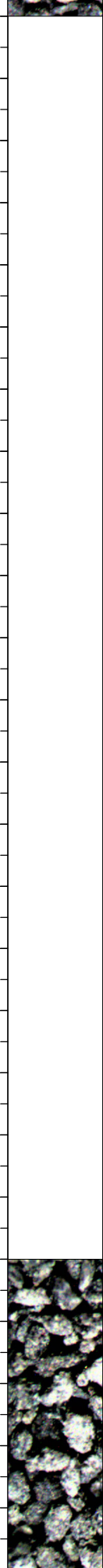
-14117 INC
91.56, AZM
91.47, TVD
7175.38

-14200 WT 9.9,
VIS 47

-14211 INC
91.69, AZM
91.52, TVD
7172.71

-14250 SHLY SLTST:
med-dk gy, frm, blk-
sb blk, gr-rthy, sl
calc; SHLY SS:
lt-med gy-brn, fri,
f gr, mod-w srt,
sbang-sbrndt,
sil-arg cmt;

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-14500



-14290 Fault: 7' down-throw; stayed in Codell

-14305 INC
90.15, AZM
90.95, TVD
7171.2

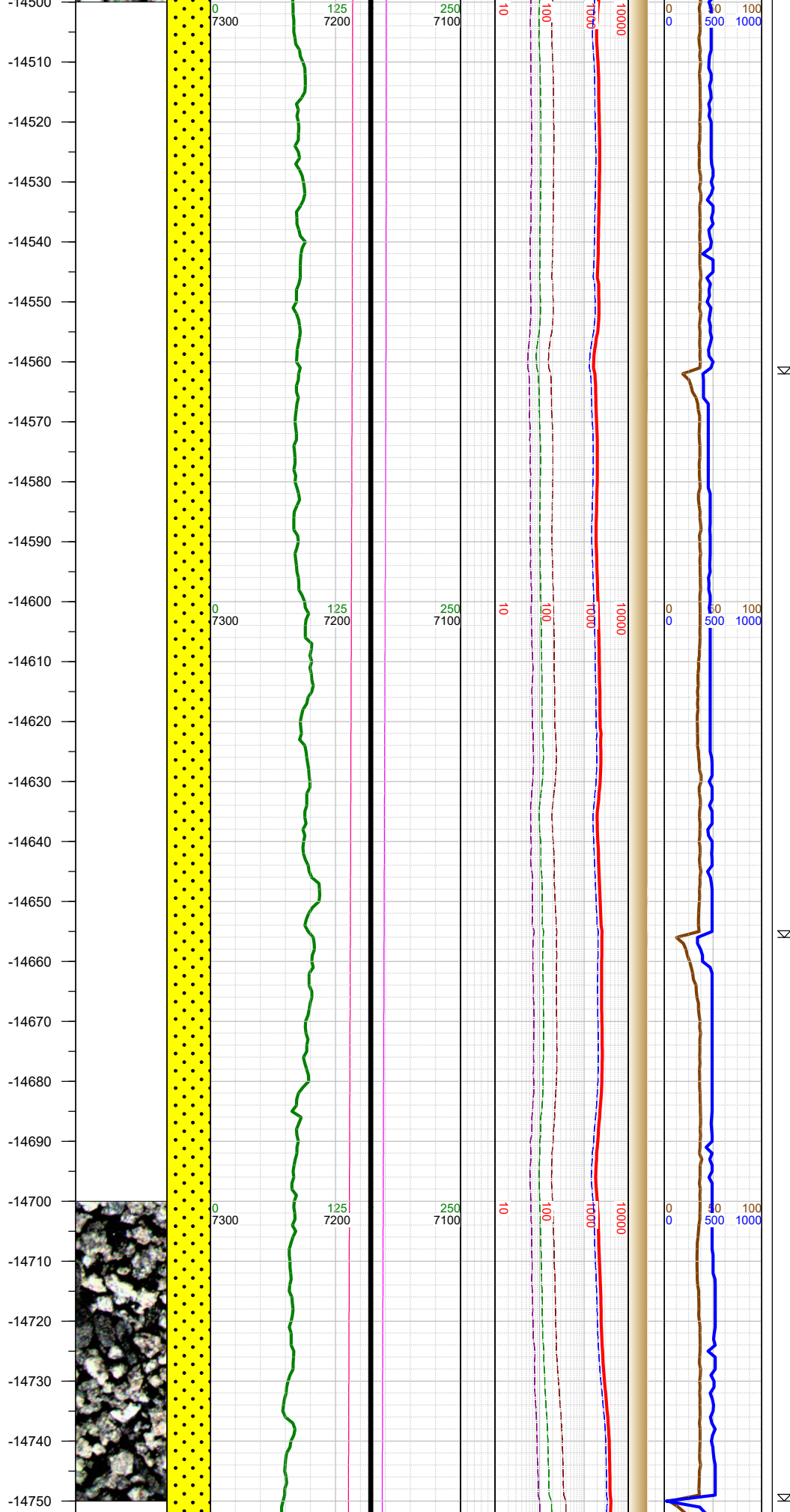
-14320 WT 9.9,
VIS 47

-14400 INC
89.88, AZM
90.9, TVD
7171.18

-14420 WT 9.9,
VIS 47

-14494 INC
89.7, AZM

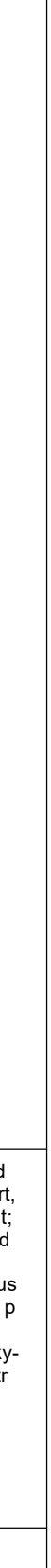
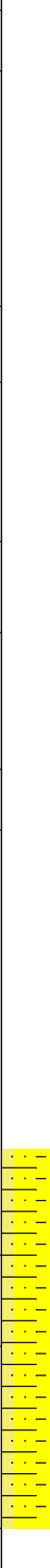
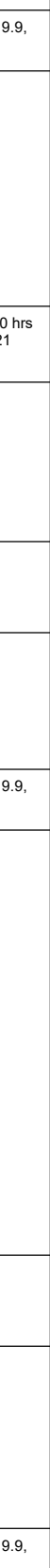
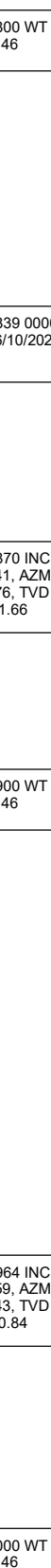
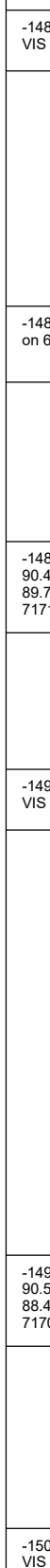
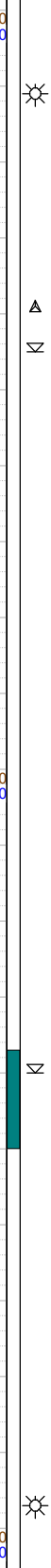
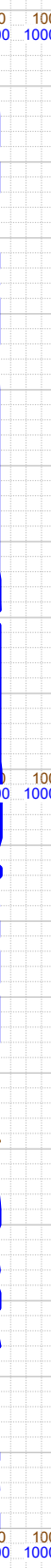
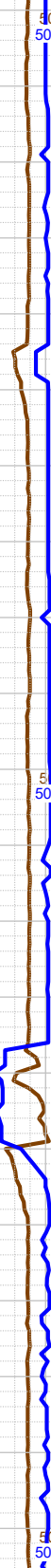
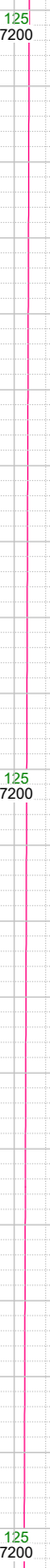
-14500 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc;



90.02, TVD 7171.52
-14510 WT 9.9, VIS 47
-14588 INC 89.66, AZM 90.37, TVD 7172.05
-14600 WT 9.9, VIS 47
-14682 INC 90.01, AZM 89.84, TVD 7172.32
-14700 WT 9.9, VIS 46

-14750 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; tr pyr;

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-15000



-14776 INC
90.19, AZM
90.15, TVD
7172.15

-14800 WT 9.9,
VIS 46

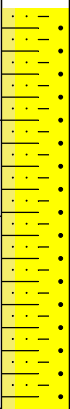
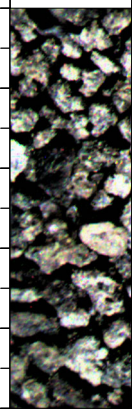
-14839 0000 hrs
on 6/10/2021

-14870 INC
90.41, AZM
89.76, TVD
7171.66

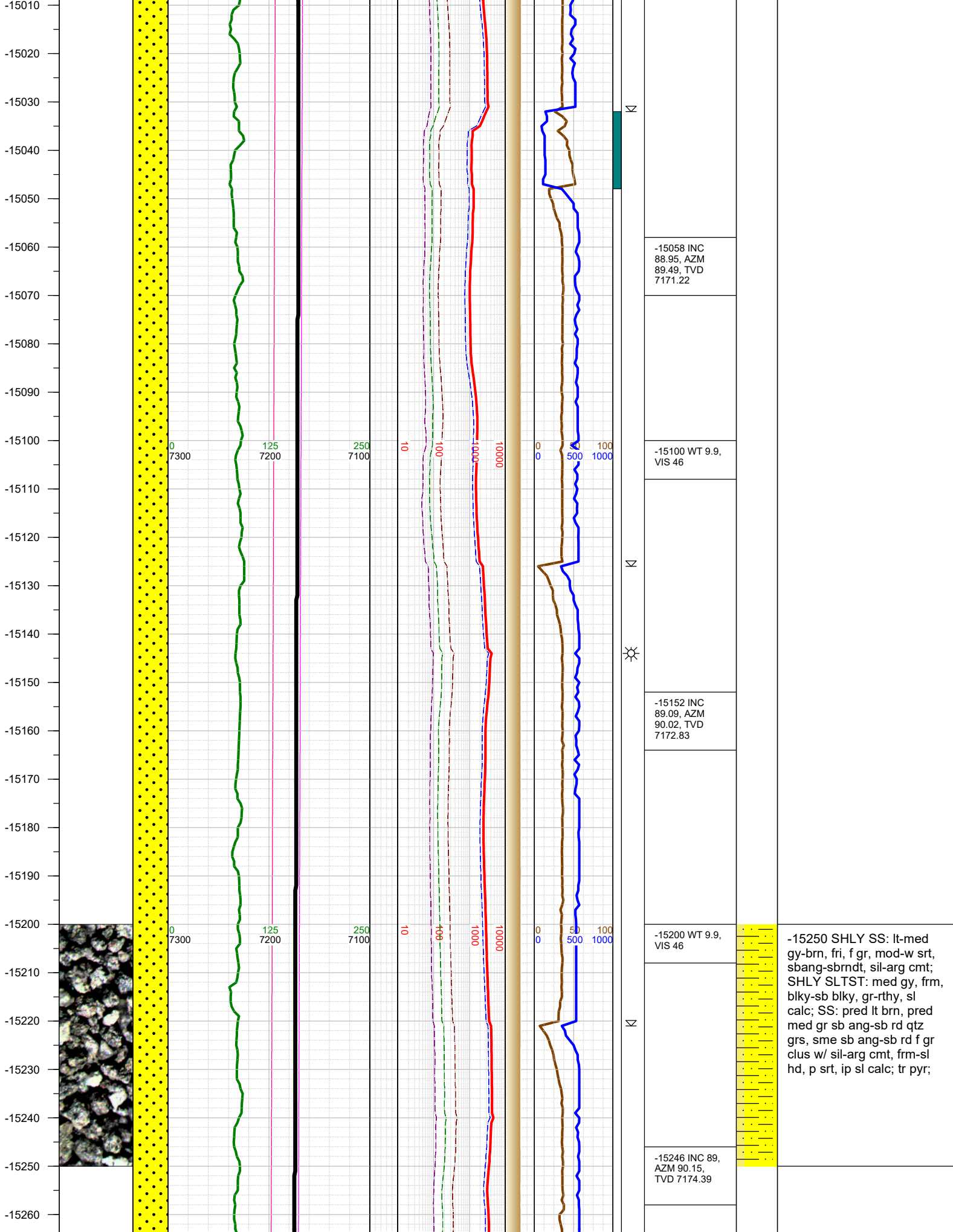
-14900 WT 9.9,
VIS 46

-14964 INC
90.59, AZM
88.43, TVD
7170.84

-15000 WT 9.9,
VIS 46



-15000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SS: pred lt brn, pred med
gr sb ang-sb rd qtz grs,
sme sb ang-sb rd f gr clus
w/ sil-arg cmt, frm-sl hd, p
srt, ip sl calc; SHLY
SLTST: med gy, frm, blk-
sb blk, gr-rthy, sl calc; tr
pyr;



-15058 INC
88.95, AZM
89.49, TVD
7171.22

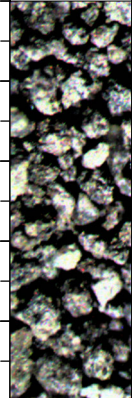
-15100 WT 9.9,
VIS 46

-15152 INC
89.09, AZM
90.02, TVD
7172.83

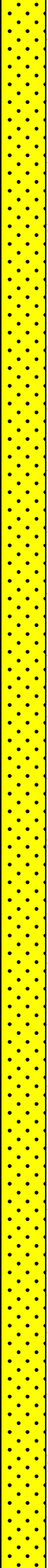
-15200 WT 9.9,
VIS 46

-15246 INC 89,
AZM 90.15,
TVD 7174.39

-15250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;



-15270
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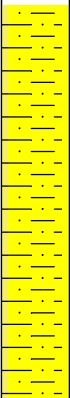
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-15300 WT 9.9,
VIS 46

-15340 INC
88.91, AZM
89.58, TVD
7176.11

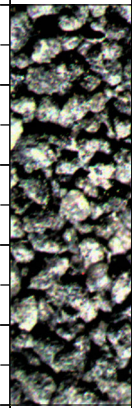
-15400 WT 9.9,
VIS 46

-15434 INC
88.56, AZM
89.76, TVD
7178.18

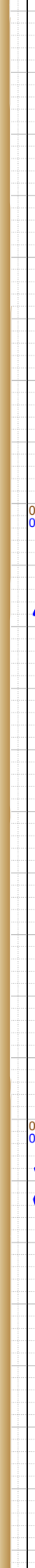
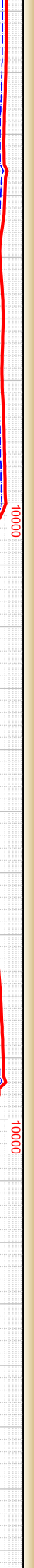
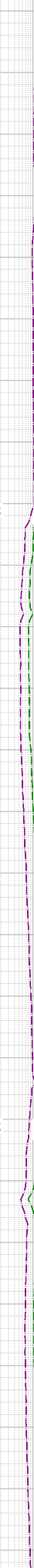
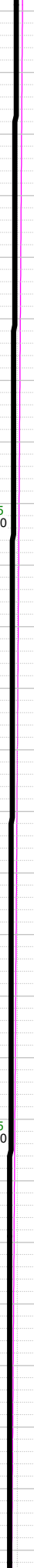
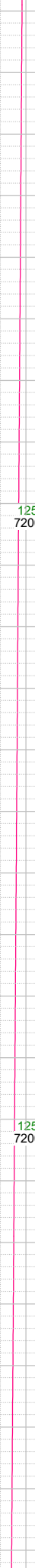
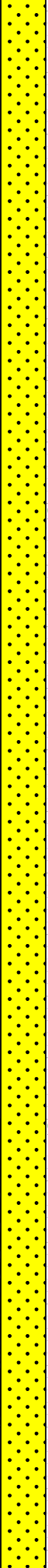


-15500 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SHLY SLTST: med gy, frm, blkly-sb blkly, gr-rthy, sl calc; SS: pred lt brn, pred med gr sb ang-sb rd qtz grs, sme sb ang-sb rd f gr clus w/ sil-arg cmt, frm-sl hd, p srt, ip sl calc; tr pyr;

-15500 WT 9.9,
VIS 46



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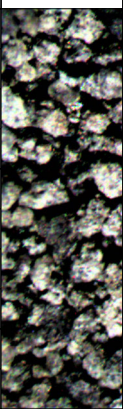
-15528 INC
87.72, AZM
89.01, TVD
7181.23

-15600 WT 9.9,
VIS 46

-15622 INC
88.95, AZM
88.08, TVD
7183.97

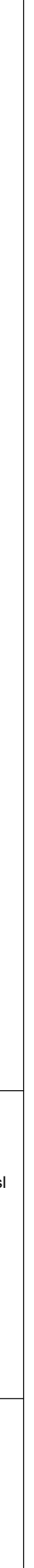
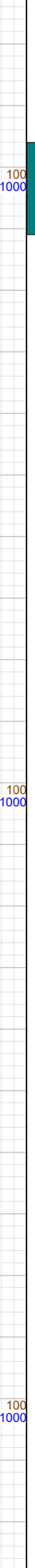
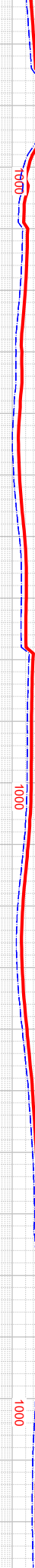
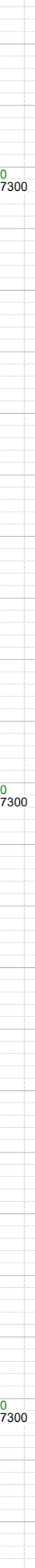
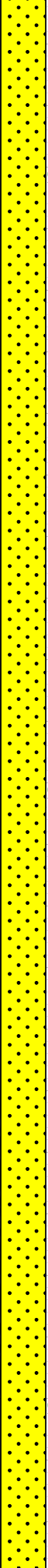
-15700 WT 9.9,
VIS 46

-15716 INC
88.95, AZM
89.49, TVD
7185.69



-15750 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;

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-15990
-16000
-16010
-16020



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-15800 WT 9.9,
VIS 46

-15810 INC
90.01, AZM
89.49, TVD
7186.54

-15812 Fault:
14' up-throw;
stayed in Codell

-15905 INC
89.75, AZM
89.4, TVD
7186.74

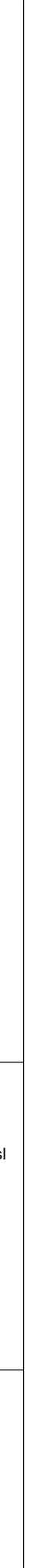
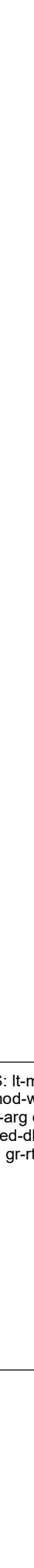
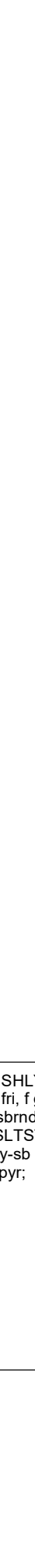
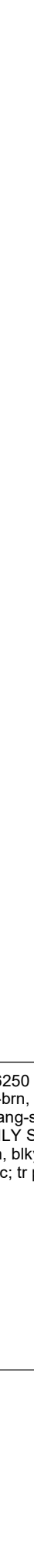
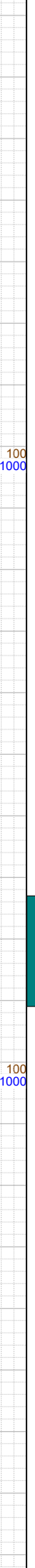
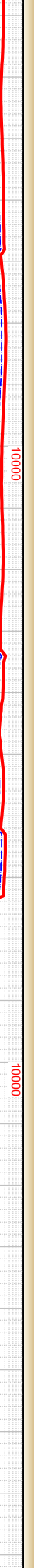
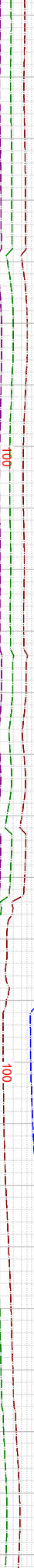
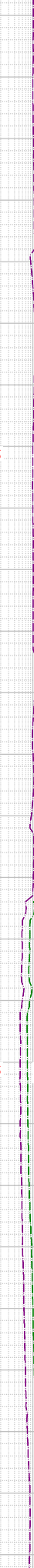
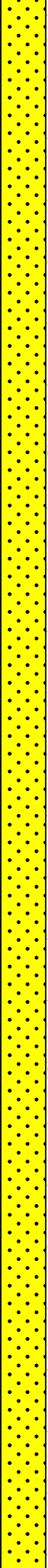
-15920 WT 9.9,
VIS 46

-16000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-y-sb blk-y, gr-rthy, sl
calc; tr pyr;

-15999 INC
89.93, AZM
88.48, TVD
7187

-16020 WT 9.8,
VIS 47

-16030
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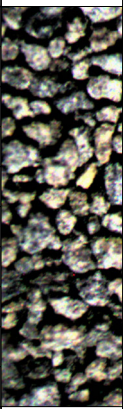
-16093 INC
90.28, AZM
87.55, TVD
7186.83

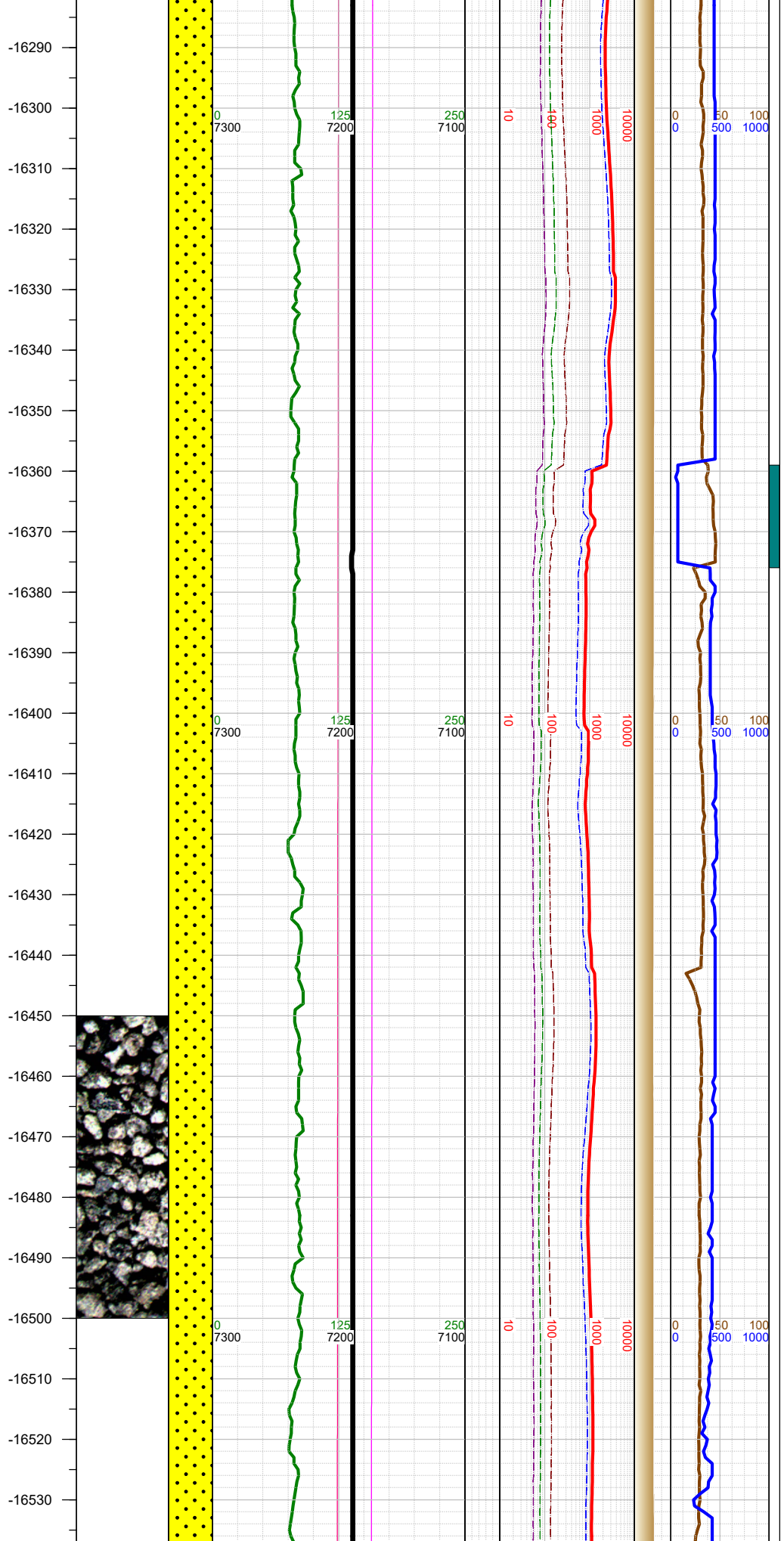
-16110 WT 9.8,
VIS 47

-16187 INC
89.13, AZM
89.14, TVD
7187.31

-16200 WT 9.8,
VIS 47

-16250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-y-sb blk-y, gr-rthy, sl
calc; tr pyr;





-16281 INC
88.91, AZM
89.23, TVD
7188.92

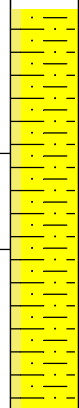
-16300 WT 9.8,
VIS 47

-16375 INC
90.37, AZM
90.06, TVD
7189.51

-16400 WT 9.8,
VIS 47

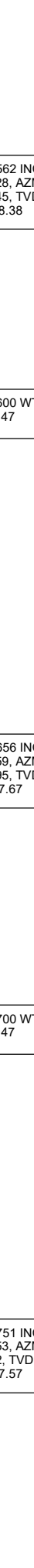
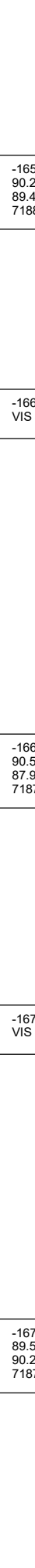
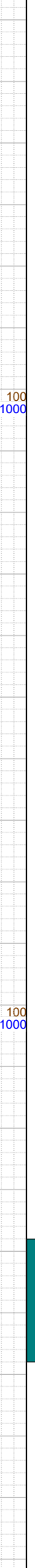
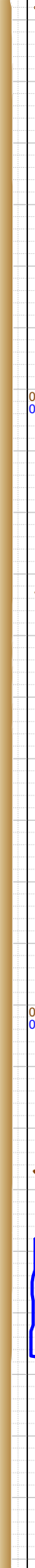
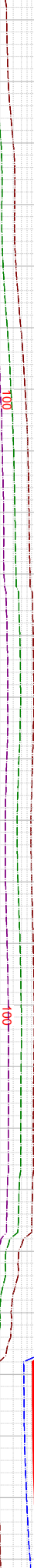
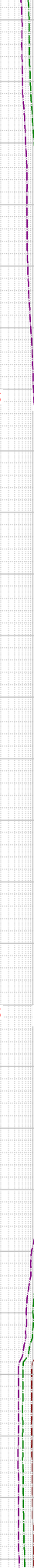
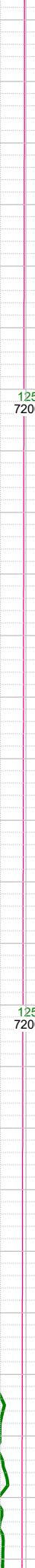
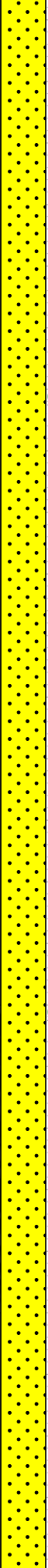
-16468 INC
90.37, AZM
90.15, TVD
7188.91

-16500 WT 9.8,
VIS 47



-16500 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SHLY SLTST: med gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SS: pred lt brn, pred med gr sb ang-sb rd qtz grs, sme sb ang-sb rd f gr clus w/ sil-arg cmt, frm-sl hd, p srt, ip sl calc; tr pyr;

-16540
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-16790



-16562 INC
90.28, AZM
89.45, TVD
7188.38

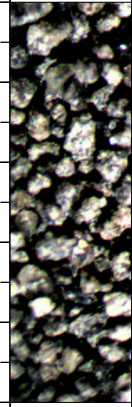
-16600 WT 9.8,
VIS 47

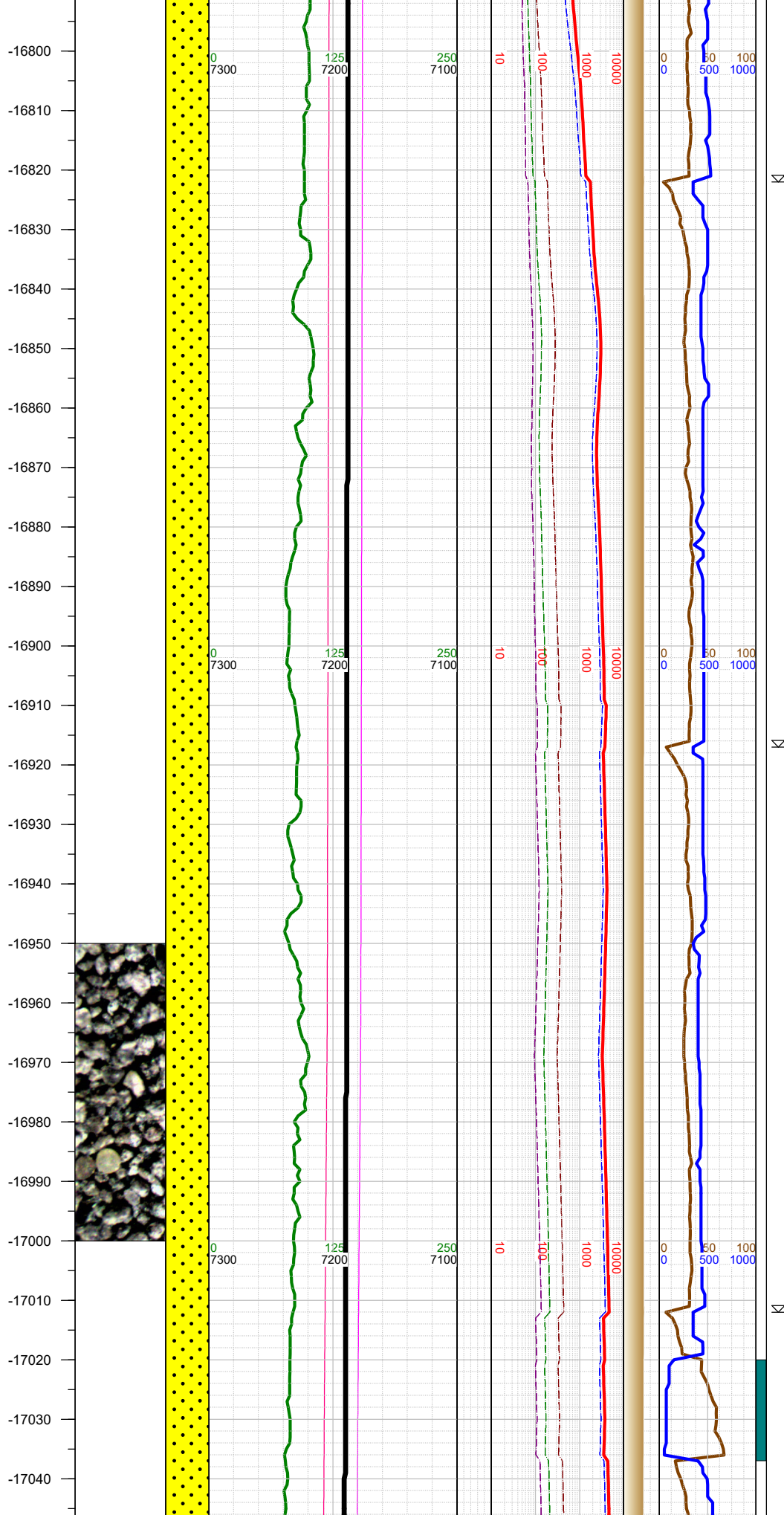
-16656 INC
90.59, AZM
87.95, TVD
7187.67

-16700 WT 9.8,
VIS 47

-16751 INC
89.53, AZM
90.2, TVD
7187.57

-16750 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;





-16800 WT 9.8,
VIS 47

-16845 INC
89.57, AZM
89.93, TVD
7188.3

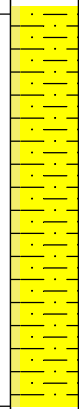
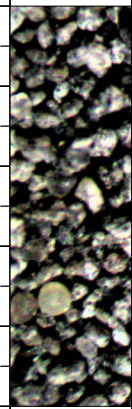
-16900 WT 9.8,
VIS 47

-16939 INC
89.62, AZM
89.31, TVD
7188.97

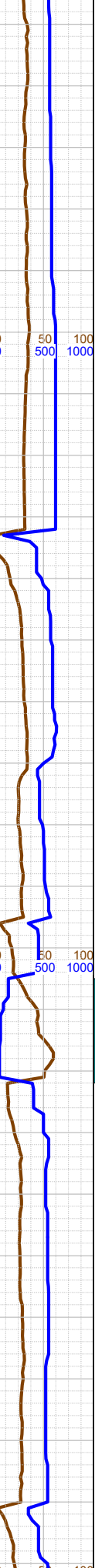
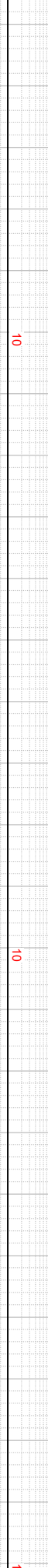
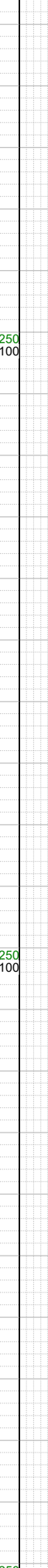
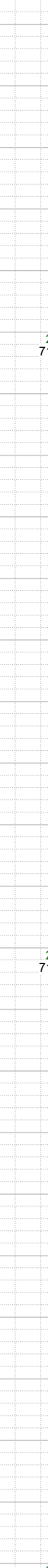
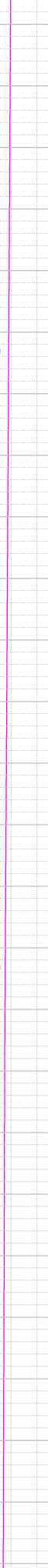
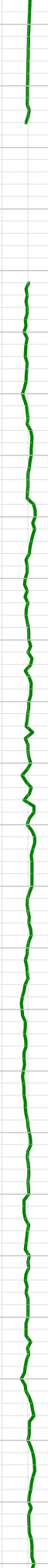
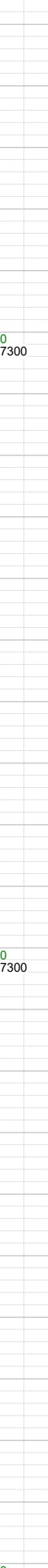
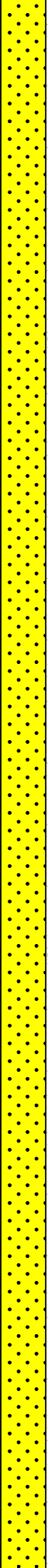
-17000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-y-sb blk-y, gr-rthy, sl
calc; tr pyr;

-17000 WT 9.8,
VIS 47

-17033 INC
88.69, AZM
89.84, TVD
7190.35



-17050
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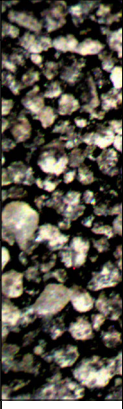
-17100 WT 9.8,
VIS 47

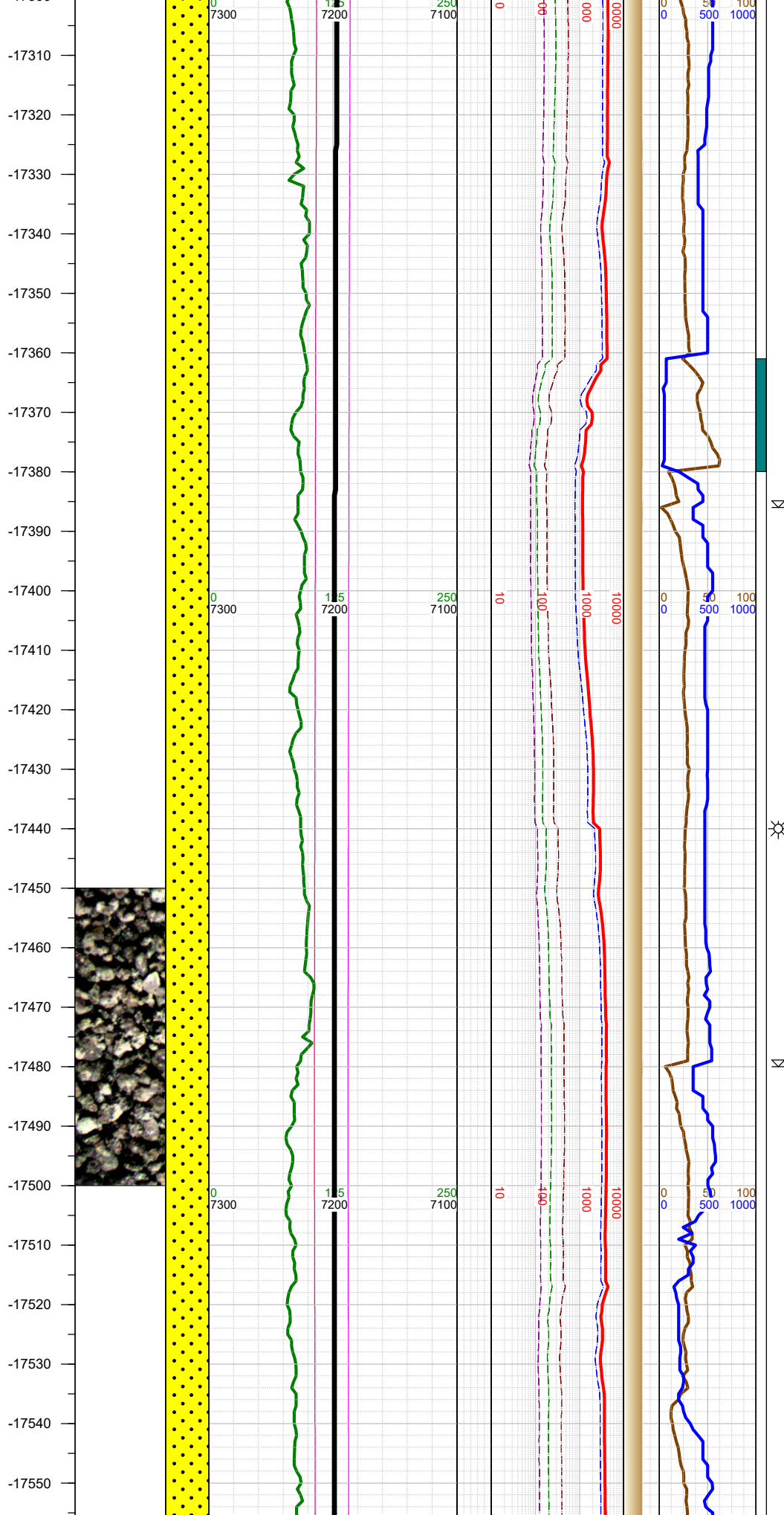
-17128 INC
88.69, AZM
89.67, TVD
7192.53

-17200 WT 9.8,
VIS 47

-17222 INC
88.56, AZM
90.33, TVD
7194.78

-17250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;





-17300 WT 9.8, VIS 47

-17316 INC 88.33, AZM 90.24, TVD 7197.33

-17400 WT 9.8, VIS 47

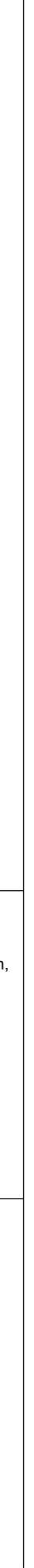
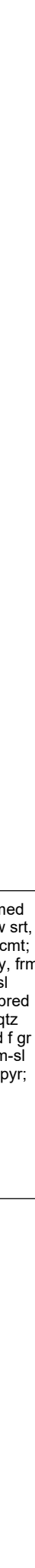
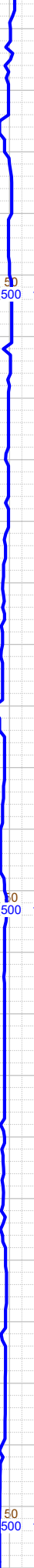
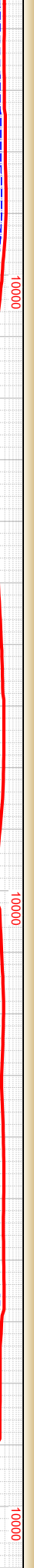
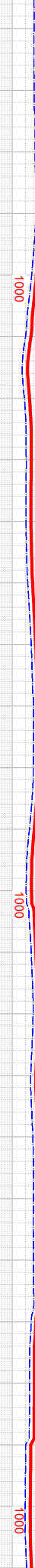
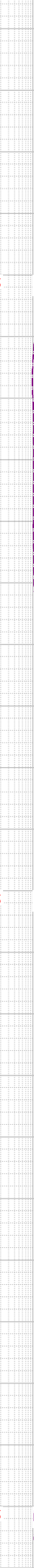
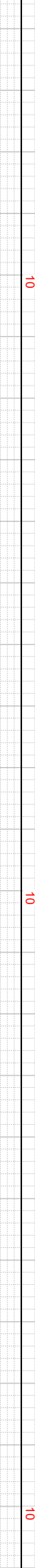
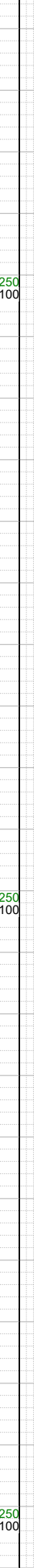
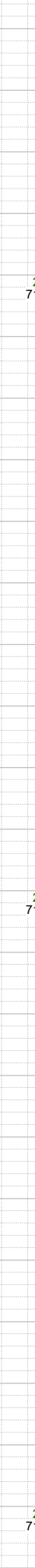
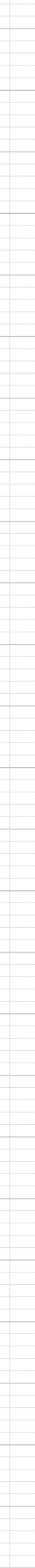
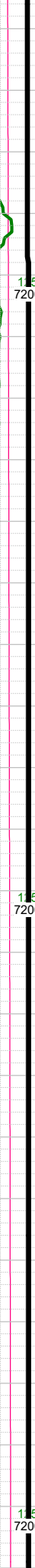
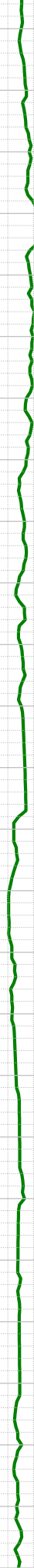
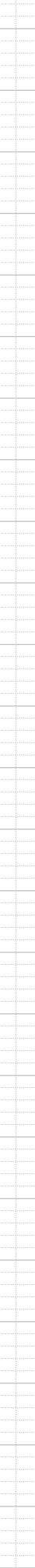
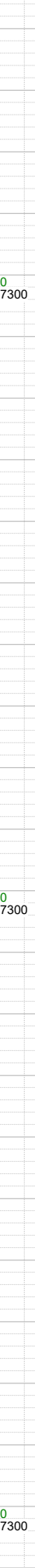
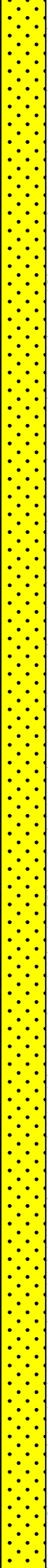
-17411 INC 89.7, AZM 91.12, TVD 7198.97

-17500 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SHLY SLTST: med gy, frm, blk-sb blk, gr-rthy, sl calc; SS: pred lt brn, pred med gr sb ang-sb rd qtz grs, sme sb ang-sb rd f gr clus w/ sil-arg cmt, frm-sl hd, p srt, ip sl calc; tr pyr;

-17505 INC 90.28, AZM 90.5, TVD 7198.98

-17520 WT 9.8, VIS 47

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-17599 INC
90.32, AZM
89.8, TVD
7198.49

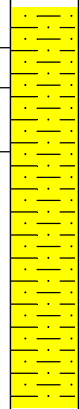
-17620 WT 9.8,
VIS 47

-17693 INC
90.15, AZM
89.76, TVD
7198.1

-17710 WT 9.8,
VIS 47

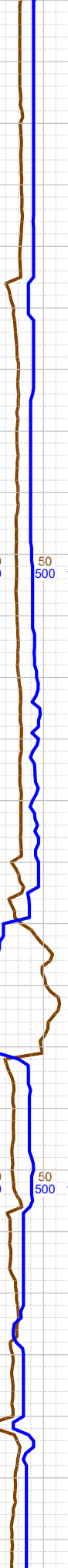
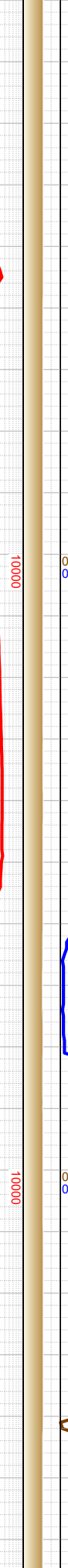
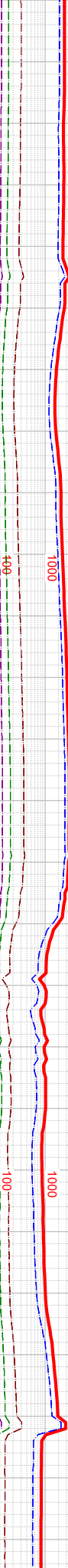
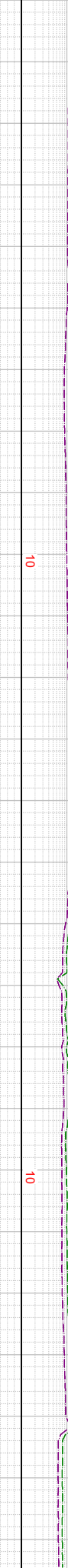
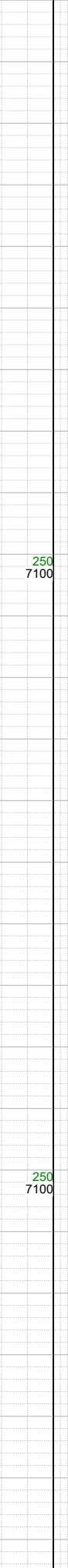
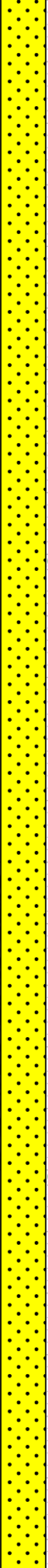
-17788 INC
89.97, AZM
89.98, TVD
7198.01

-17800 WT 9.8,
VIS 47



-17750 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;

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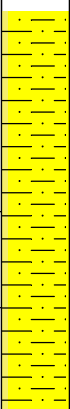
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-17882 INC
90.23, AZM
89.4, TVD
7197.84

-17900 WT 9.8,
VIS 47

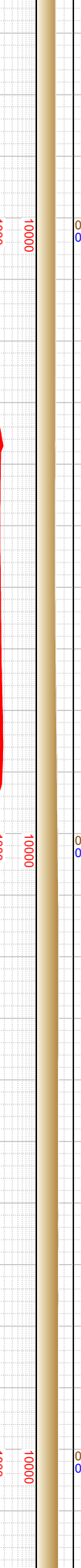
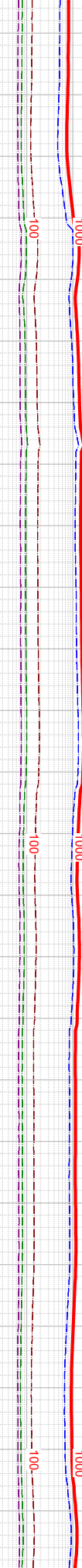
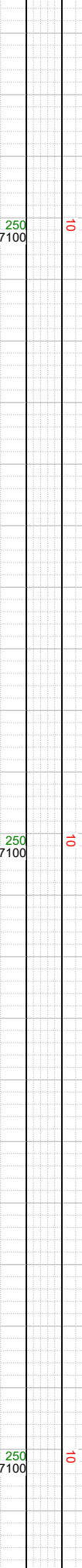
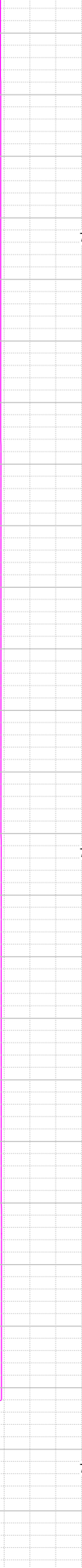
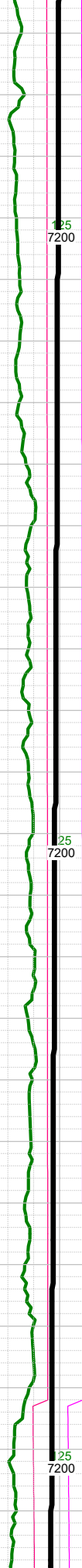
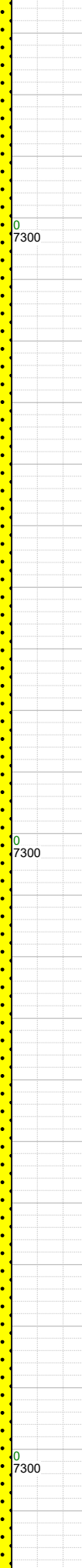
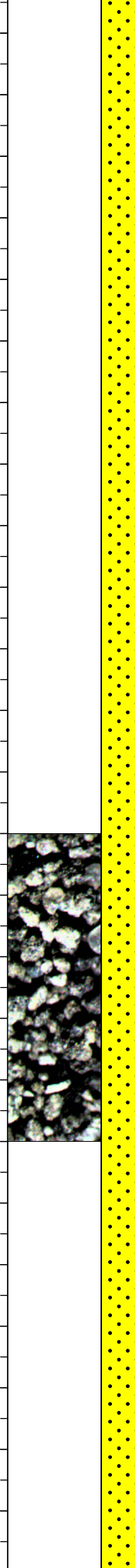
-17975 INC
88.86, AZM
91.08, TVD
7198.58

-18000 WT 9.8,
VIS 47



-18000 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SHLY SLTST: med gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SS: pred lt brn, pred med gr sb ang-sb rd qtz grs, sme sb ang-sb rd f gr clus w/ sil-arg cmt, frm-sl hd, p srt, ip sl calc; tr pyr;

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-18069 INC
88.69, AZM
91.17, TVD
7200.59

-18100 WT 9.8,
VIS 47

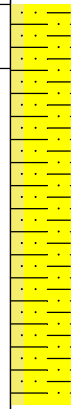
-18164 INC
88.73, AZM
90.15, TVD
7202.73

-18200 WT 9.8,
VIS 47

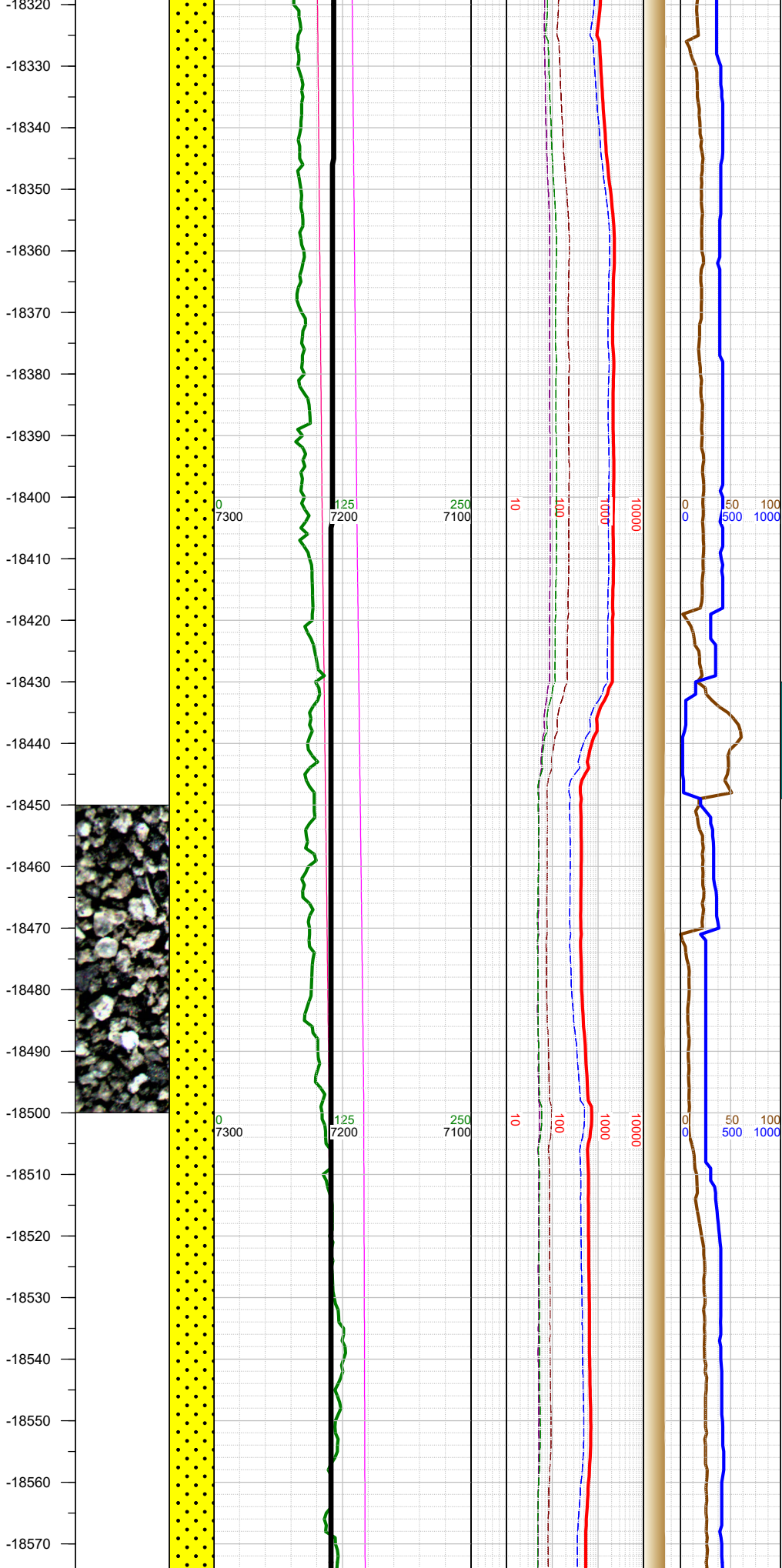
-18258 INC
88.42, AZM
90.2, TVD
7205.07

-18293 Fault:
11' down-throw;
stayed in Codell

-18310 WT 9.8,
VIS 47



-18250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;



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-18352 INC
88.38, AZM
89.71, TVD
7207.69

-18400 WT 9.8,
VIS 47

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-18444 INC
89.84, AZM
90.02, TVD
7209.12

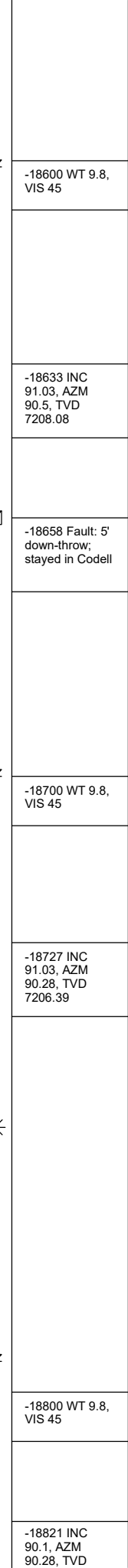
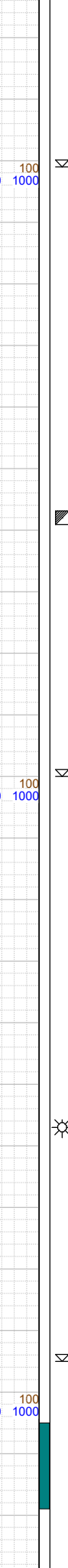
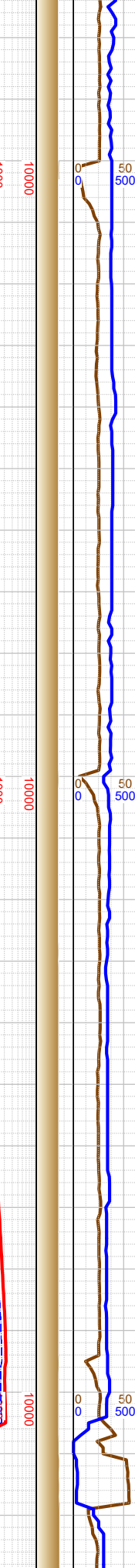
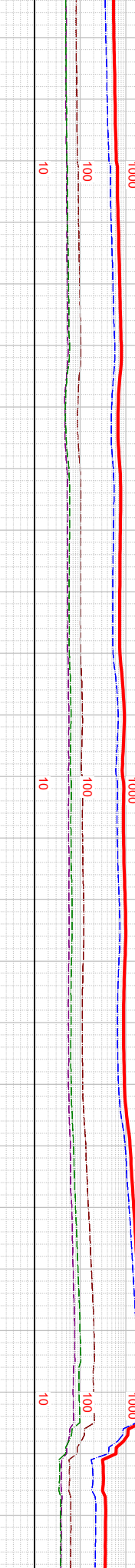
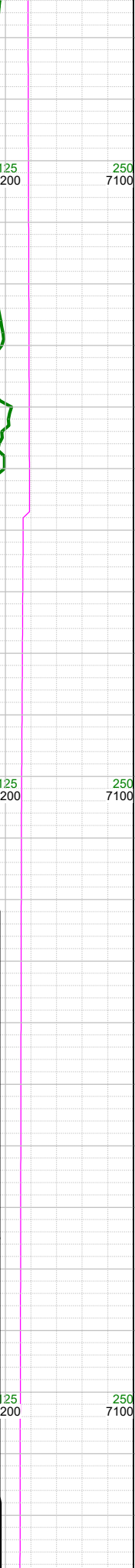
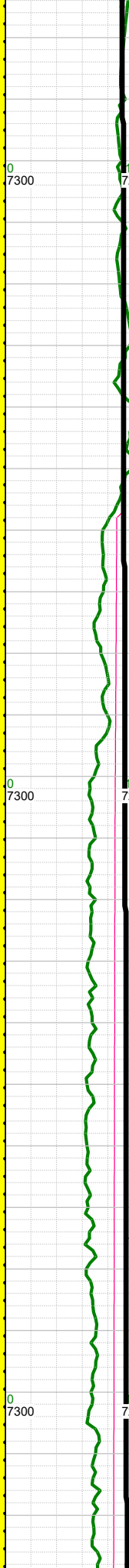
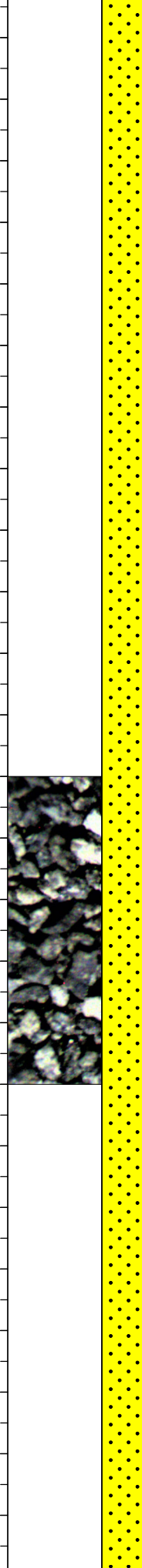
-18500 SHLY SLTST: med
gy, frm, blkly-sb blkly, gr-
rthy, sl calc; SHLY SS: lt-
med gy-brn, fri, f gr, mod-w
srt, sbang-sbrndt, sil-arg
cmt; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;

-18500 WT 9.8,
VIS 45

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-18538 INC
90.19, AZM
89.36, TVD
7209.09

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-18600 WT 9.8, VIS 45

-18633 INC 91.03, AZM 90.5, TVD 7208.08

-18658 Fault: 5' down-throw; stayed in Codell

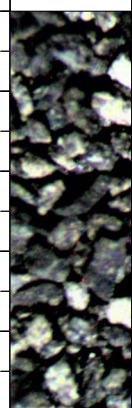
-18700 WT 9.8, VIS 45

-18727 INC 91.03, AZM 90.28, TVD 7206.39

-18800 WT 9.8, VIS 45

-18821 INC 90.1, AZM 90.28, TVD

-18750 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc; SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt;



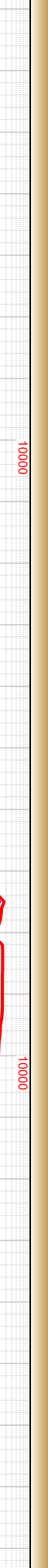
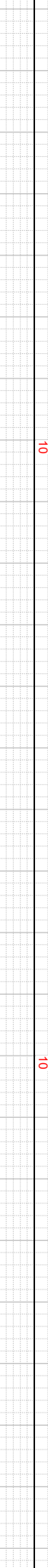
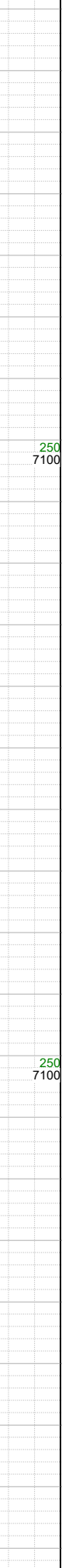
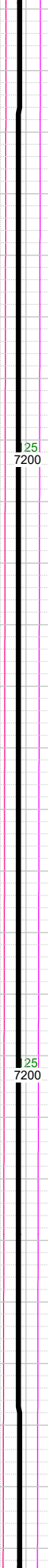
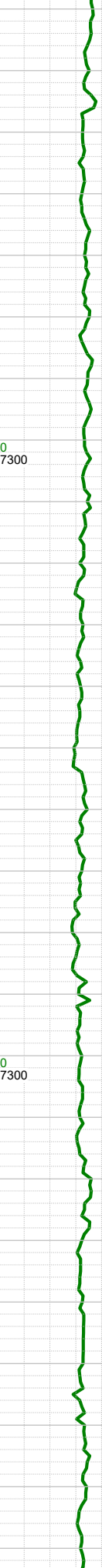
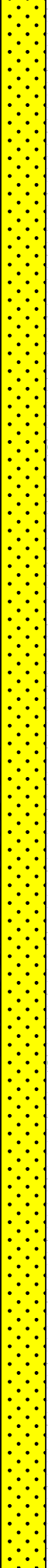
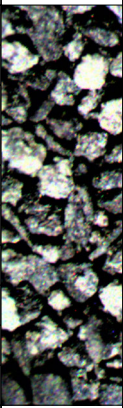
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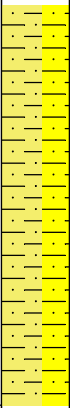
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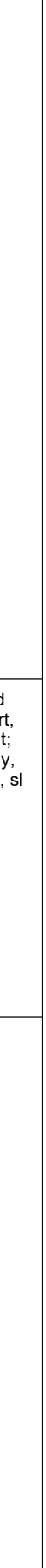
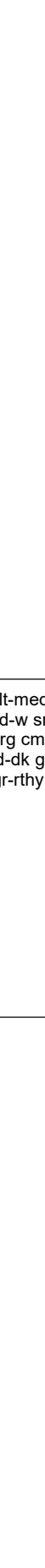
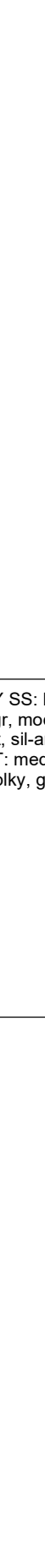
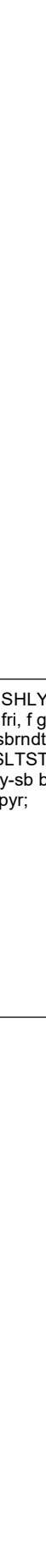
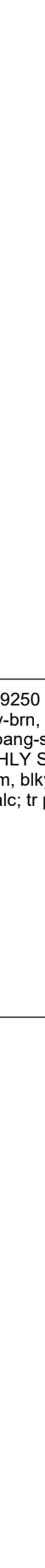
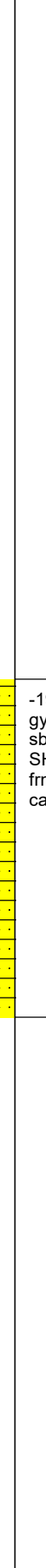
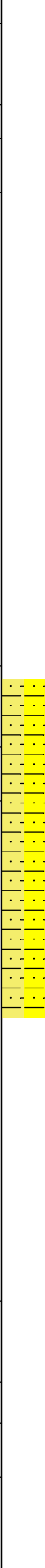
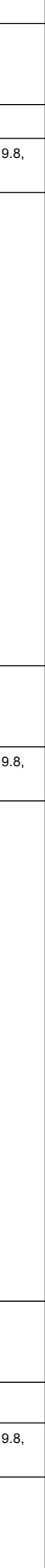
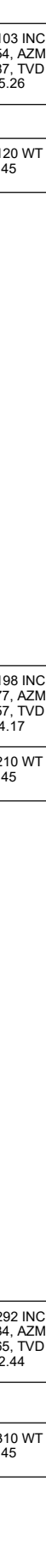
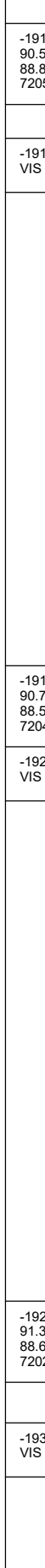
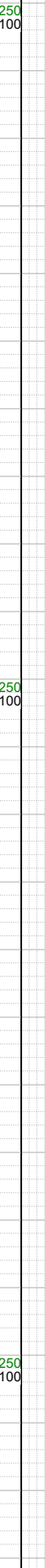
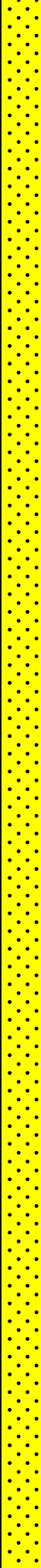
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7205.47
-18900 WT 9.8, VIS 45
-18916 INC 89.75, AZM 89.58, TVD 7205.59
-19000 WT 9.8, VIS 45
-19010 INC 90.06, AZM 89.36, TVD 7205.75



-19000 SHLY SLTST:
med-dk gy, frm, blk-sb
blk, gr-rthy, sl calc; SHLY
SS: lt-med gy-brn, fri, f gr,
mod-w srt, sbang-sbrndt,
sil-arg cmt;

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-19103 INC
90.54, AZM
88.87, TVD
7205.26

-19120 WT 9.8,
VIS 45

-19198 INC
90.77, AZM
88.57, TVD
7204.17

-19210 WT 9.8,
VIS 45

-19292 INC
91.34, AZM
88.65, TVD
7202.44

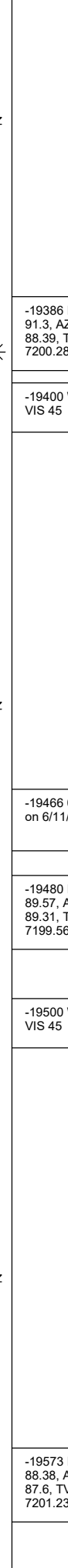
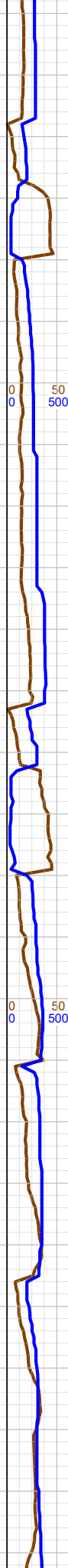
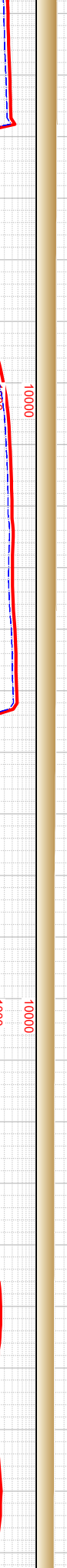
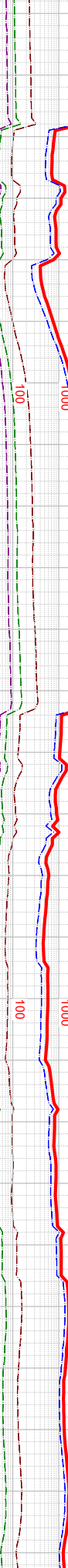
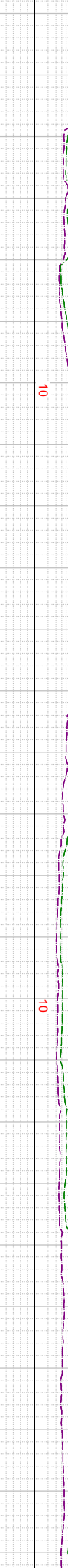
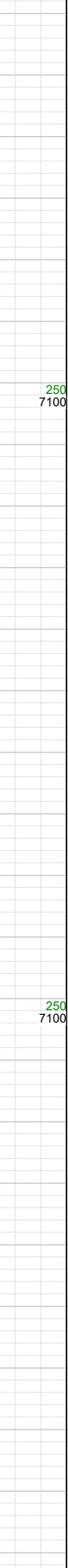
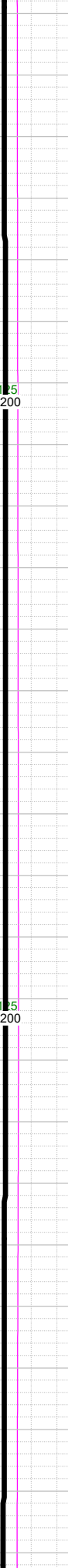
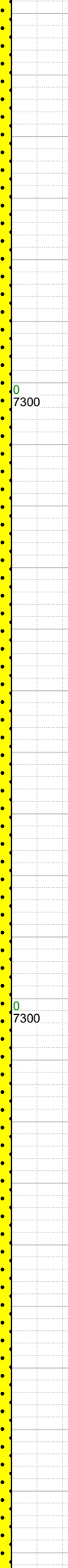
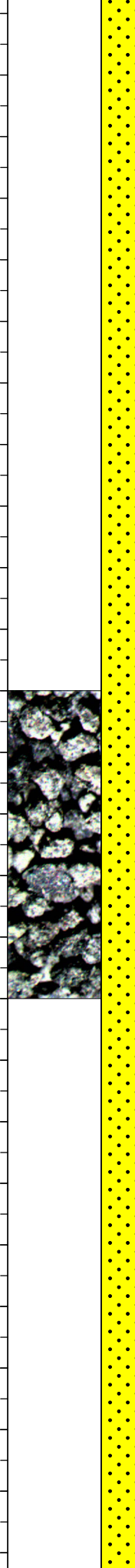
-19310 WT 9.8,
VIS 45

-19250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-y-sb blk-y, gr-rthy, sl
calc; tr pyr;

N

N

-19340
-19350
-19360
-19370
-19380
-19390
-19400
-19410
-19420
-19430
-19440
-19450
-19460
-19470
-19480
-19490
-19500
-19510
-19520
-19530
-19540
-19550
-19560
-19570
-19580
-19590



-19386 INC
91.3, AZM
88.39, TVD
7200.28

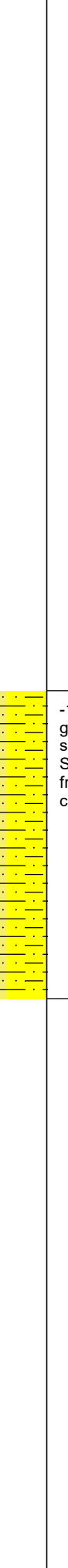
-19400 WT 9.8,
VIS 45

-19466 0000 hrs
on 6/11/2021

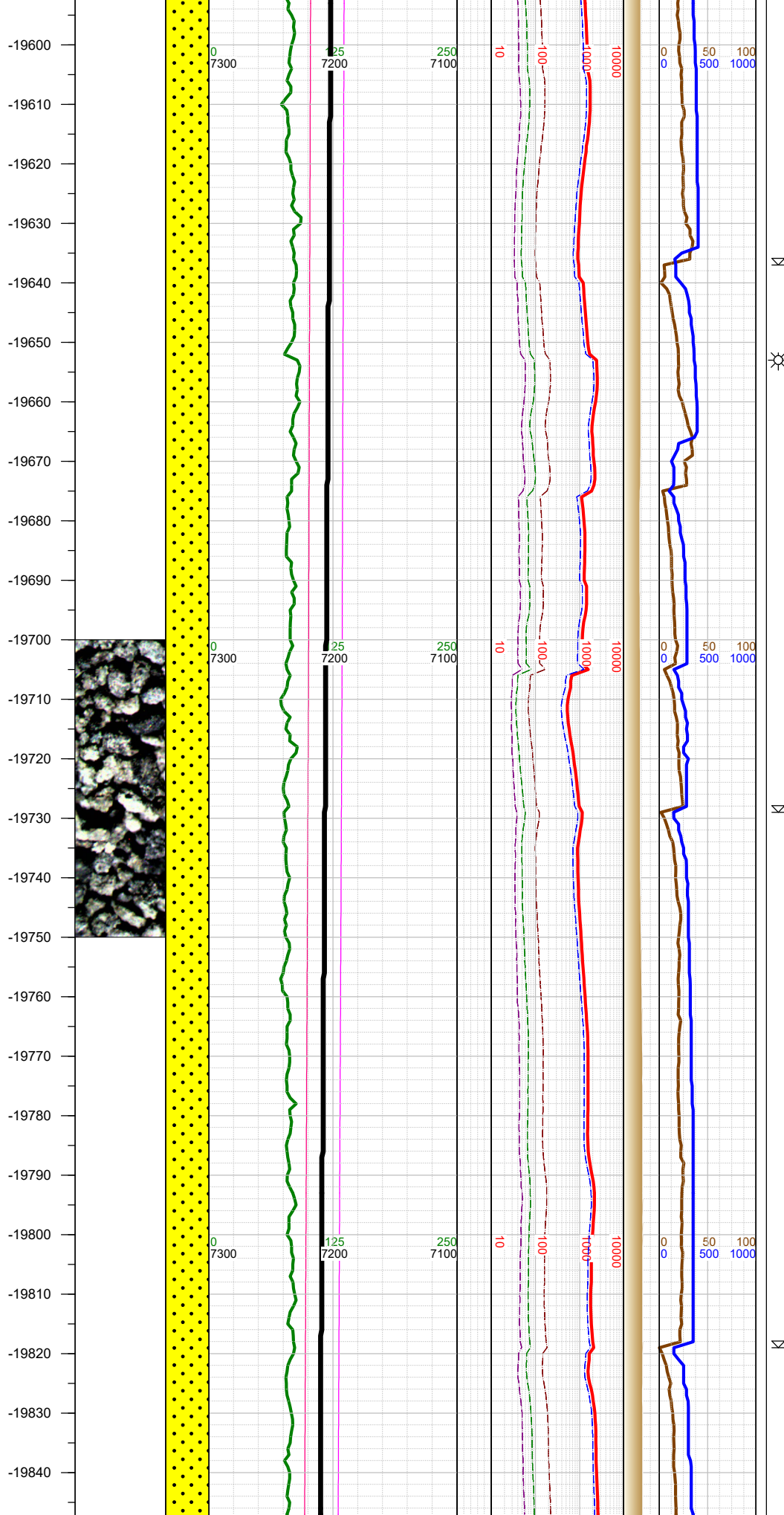
-19480 INC
89.57, AZM
89.31, TVD
7199.56

-19500 WT 9.8,
VIS 45

-19573 INC
88.38, AZM
87.6, TVD
7201.23



-19500 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med-dk gy,
frm, blk-ly-sb blk-ly, gr-rthy, sl
calc; tr pyr;



-19600 WT 9.8,
VIS 45

-19662 INC
87.94, AZM
86.23, TVD
7204.09

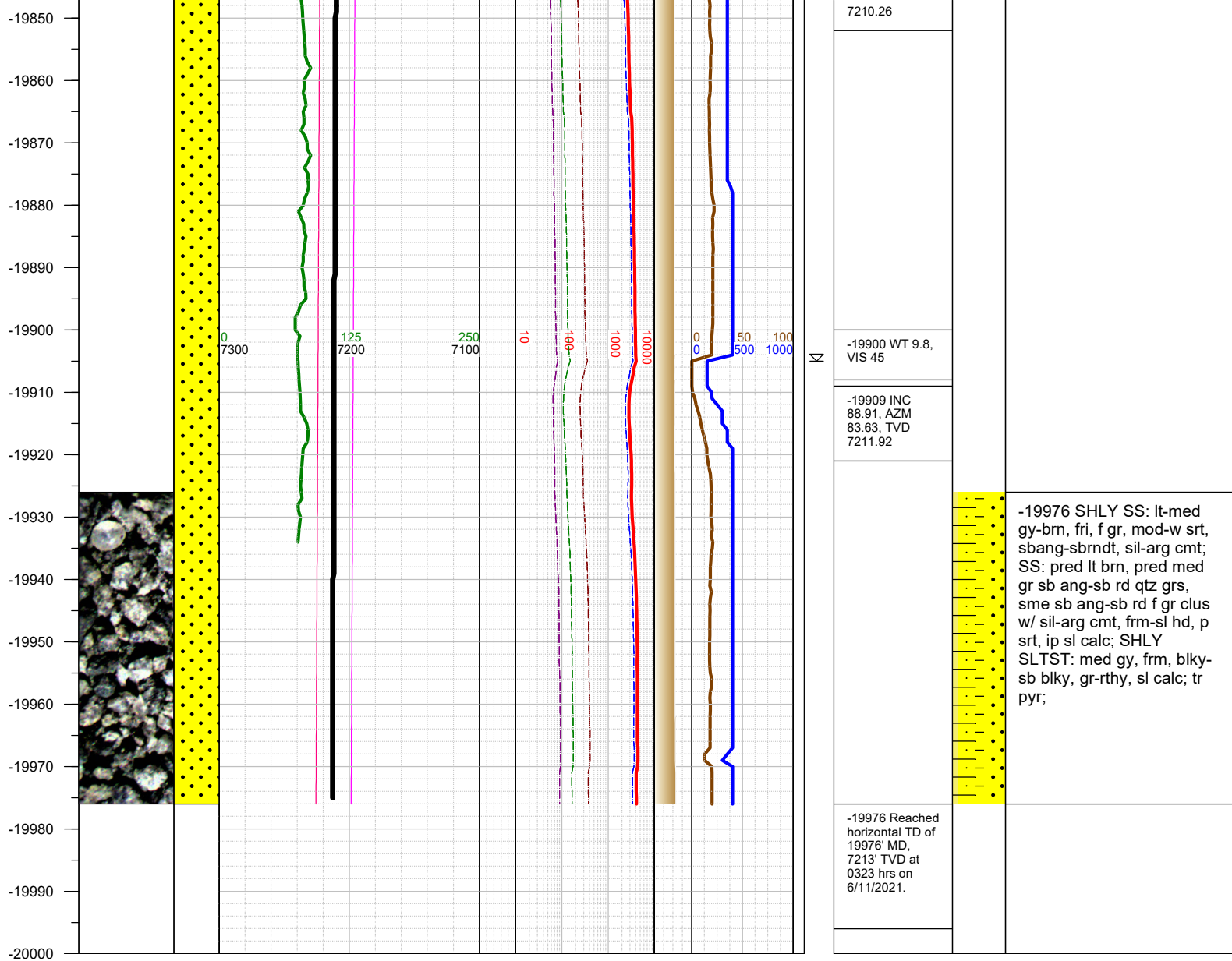
-19700 WT 9.8,
VIS 45

-19752 INC
87.89, AZM
85.75, TVD
7207.36

-19800 WT 9.8,
VIS 45

-19840 INC
88.33, AZM
85.13, TVD

-19750 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
sbang-sbrndt, sil-arg cmt;
SHLY SLTST: med gy, frm,
blky-sb blky, gr-rthy, sl
calc; SS: pred lt brn, pred
med gr sb ang-sb rd qtz
grs, sme sb ang-sb rd f gr
clus w/ sil-arg cmt, frm-sl
hd, p srt, ip sl calc; tr pyr;



TOTAL DEPTH = 19976'

Thank you for using Earth Science Agency