OPERATOR: **Extraction Oil & Gas**
WELL NAME: **VT LDS 1-16-18**

FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 901
API #: 05-123-44421

LAT/LONG: 40.40132, -104.65655
SURFACE HOLE: SWNW S15-T5N-R65W, 1882' FNL, 650' FWL
BOTTOM HOLE: S18-T5N-R65W, 660' FNL, 460' FWL

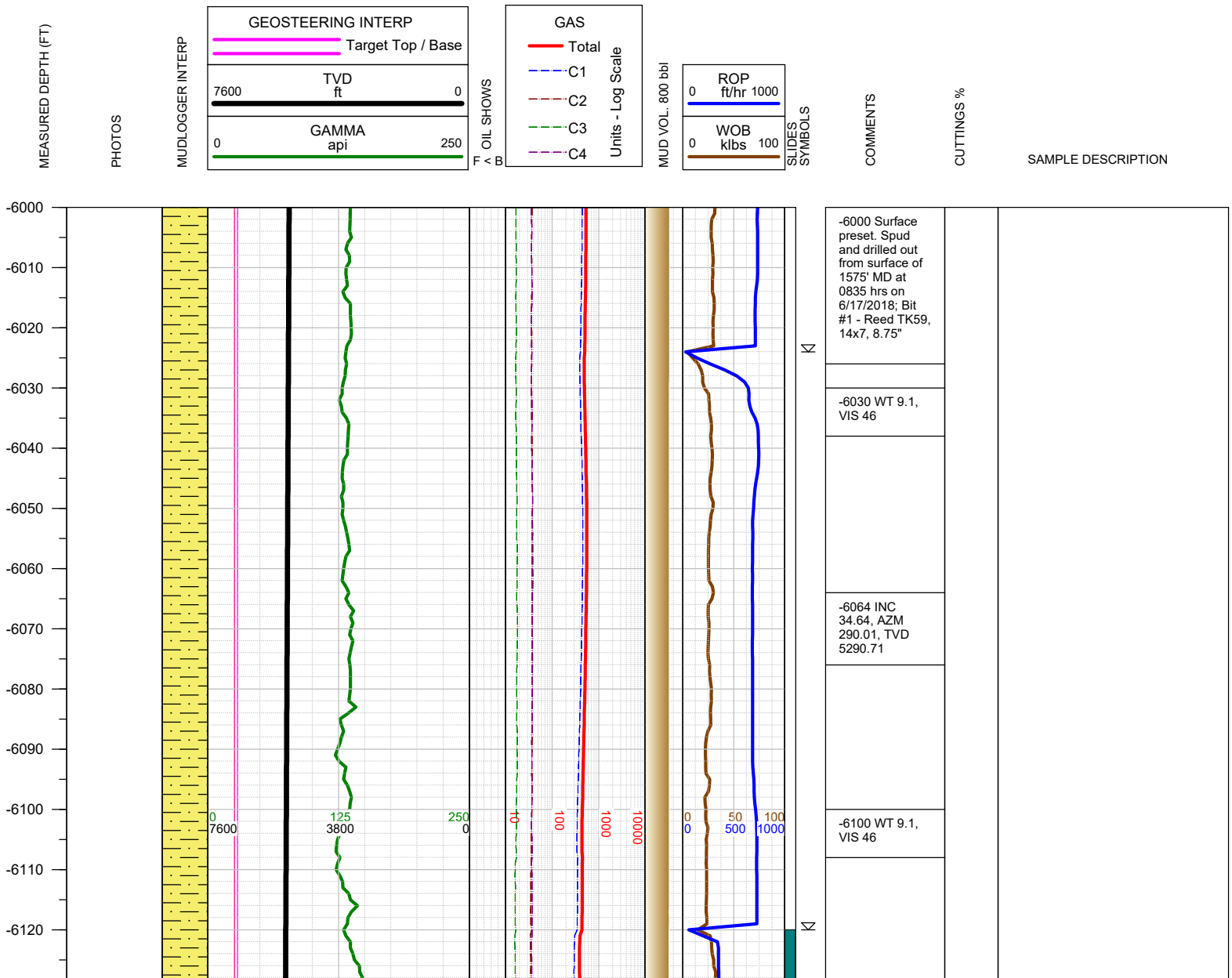
Earth Science Agency, LLC

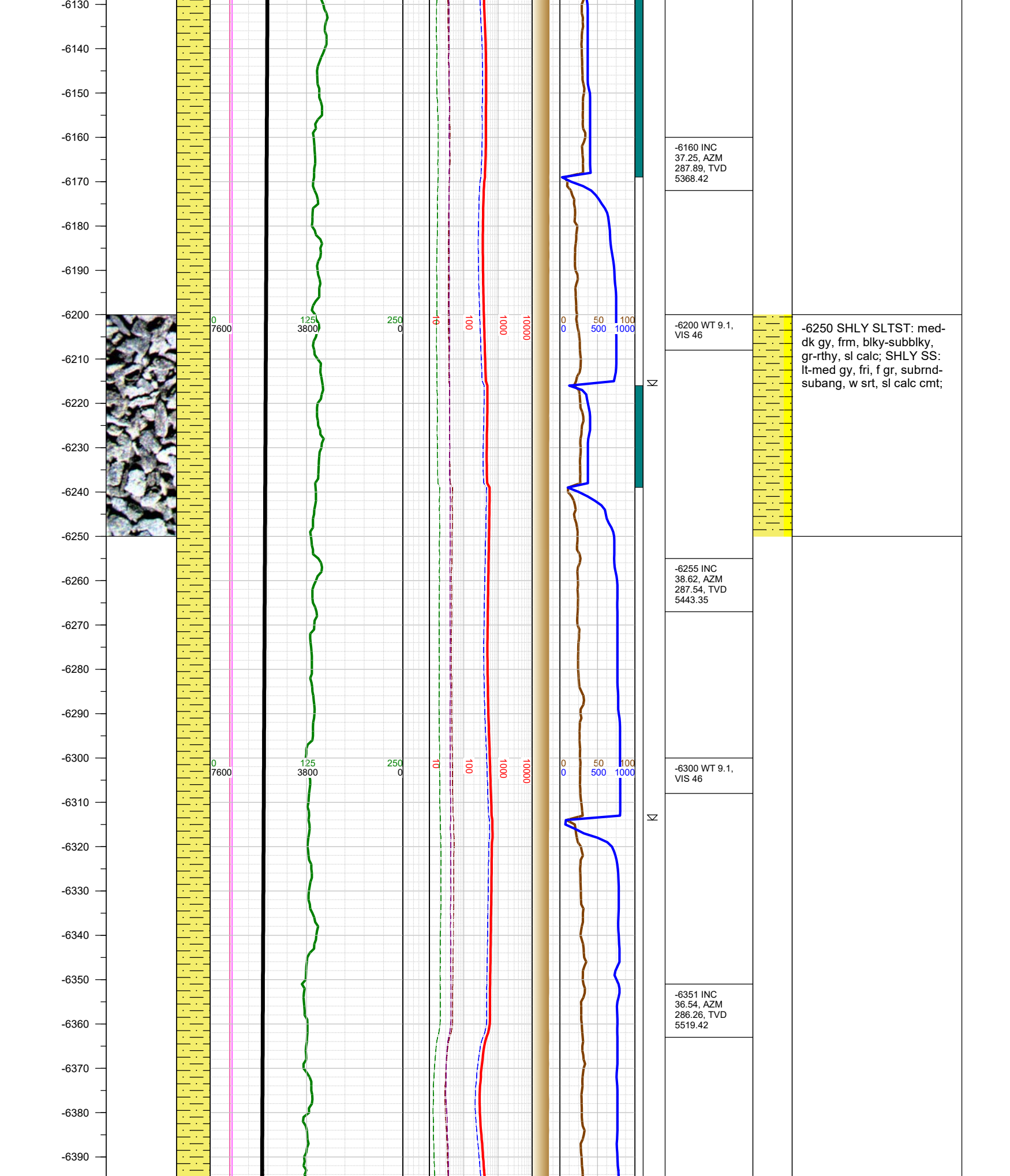
COUNTY:	Weld
STATE:	Colorado
GROUND ELEVATION:	4648'
KELLY BUSHING:	4677'
DRILLING FLUID:	OBM
TVD VS. MD:	6787' / 20445'
SPUD DATE:	June 17, 2018
TD DATE:	June 20, 2018
DEPTHS LOGGED:	6000' - 20445'
DATES LOGGED:	June 17, 2018 - June 20, 2018
GEOLOGISTS:	Blake Eatherton, Dan Jacobs
SCALE:	5" = 100'

LEGEND

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

FORMATION | CONNECTION | MIDNIGHT | NEW BIT | GAS SHOW | FAULT

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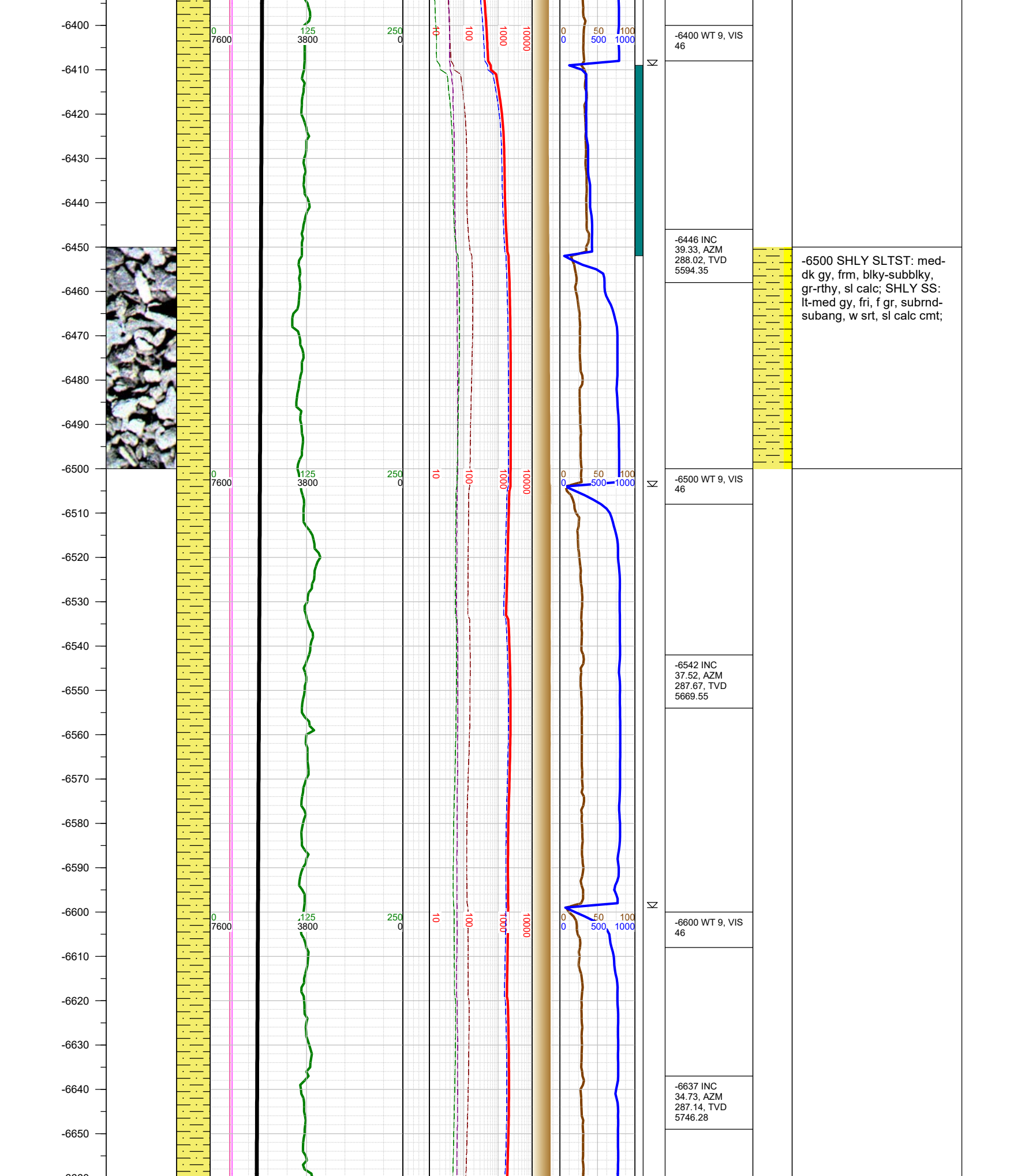
-6160 INC 37.25, AZM 287.89, TVD 5368.42
-6200 WT 9.1, VIS 46
-6250 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, subrnd-subang, w srt, sl calc cmt;
-6255 INC 38.62, AZM 287.54, TVD 5443.35
-6300 WT 9.1, VIS 46
-6351 INC 36.54, AZM 286.26, TVD 5519.42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-6446 INC 39.33, AZM 288.02, TVD 5594.35
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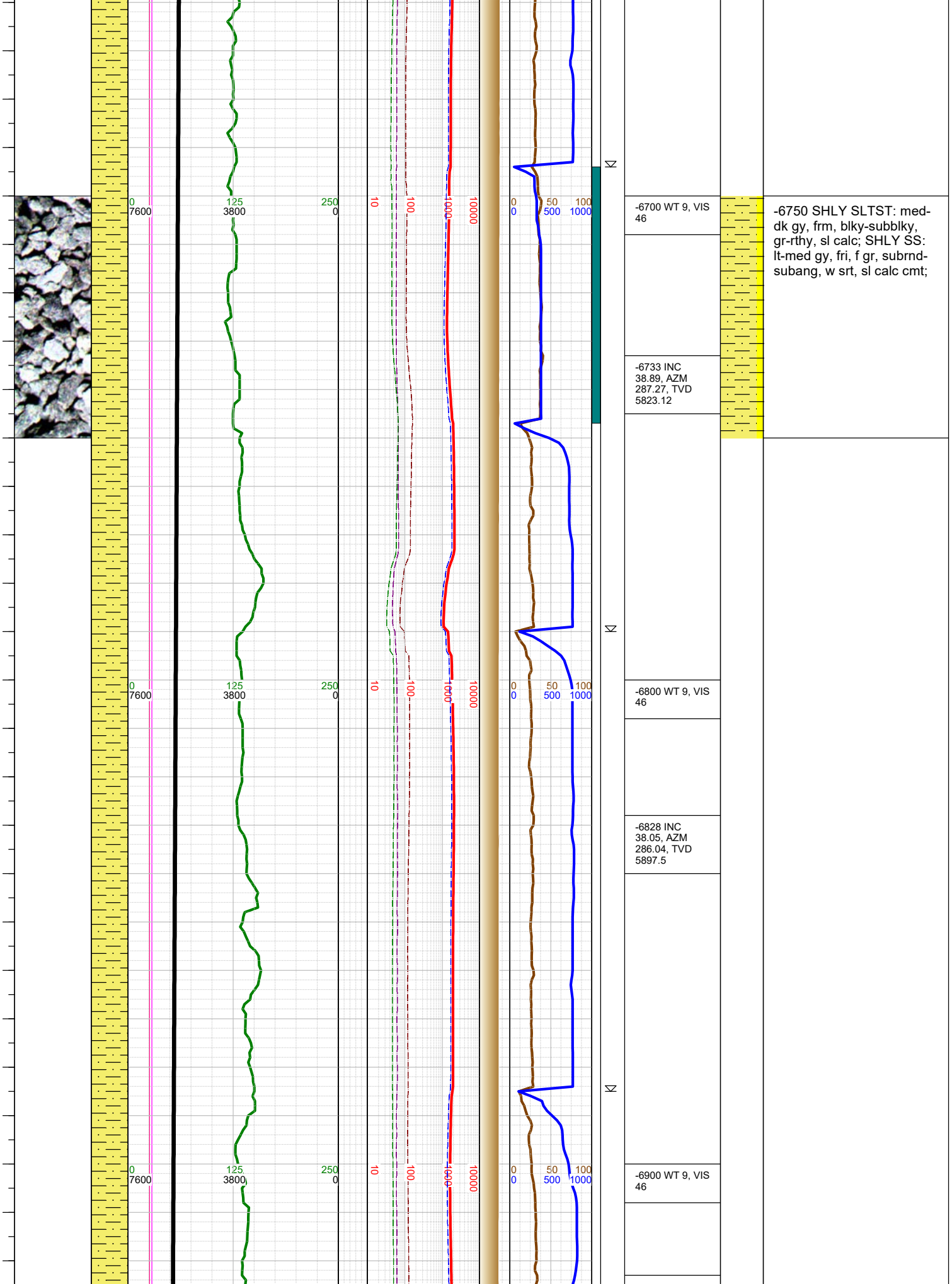
-6500 WT 9, VIS 46
-6542 INC 37.52, AZM 287.67, TVD 5669.55
-6600 WT 9, VIS 46
-6637 INC 34.73, AZM 287.14, TVD 5746.28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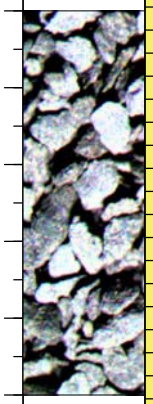
-6700 WT 9, VIS 46
-6733 INC 38.89, AZM 287.27, TVD 5823.12
-6800 WT 9, VIS 46
-6828 INC 38.05, AZM 286.04, TVD 5897.5
-6900 WT 9, VIS 46
-6750 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, subrnd-subang, w srt, sl calc cmt;



-6923 INC 34.87, AZM 285.07, TVD 5973.9

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-7000 WT 9, VIS 46

-7019 INC 36.9, AZM 286.97, TVD 6051.68

-7100 WT 9.1, VIS 46

-7114 INC 37.74, AZM 286.26, TVD 6127.22

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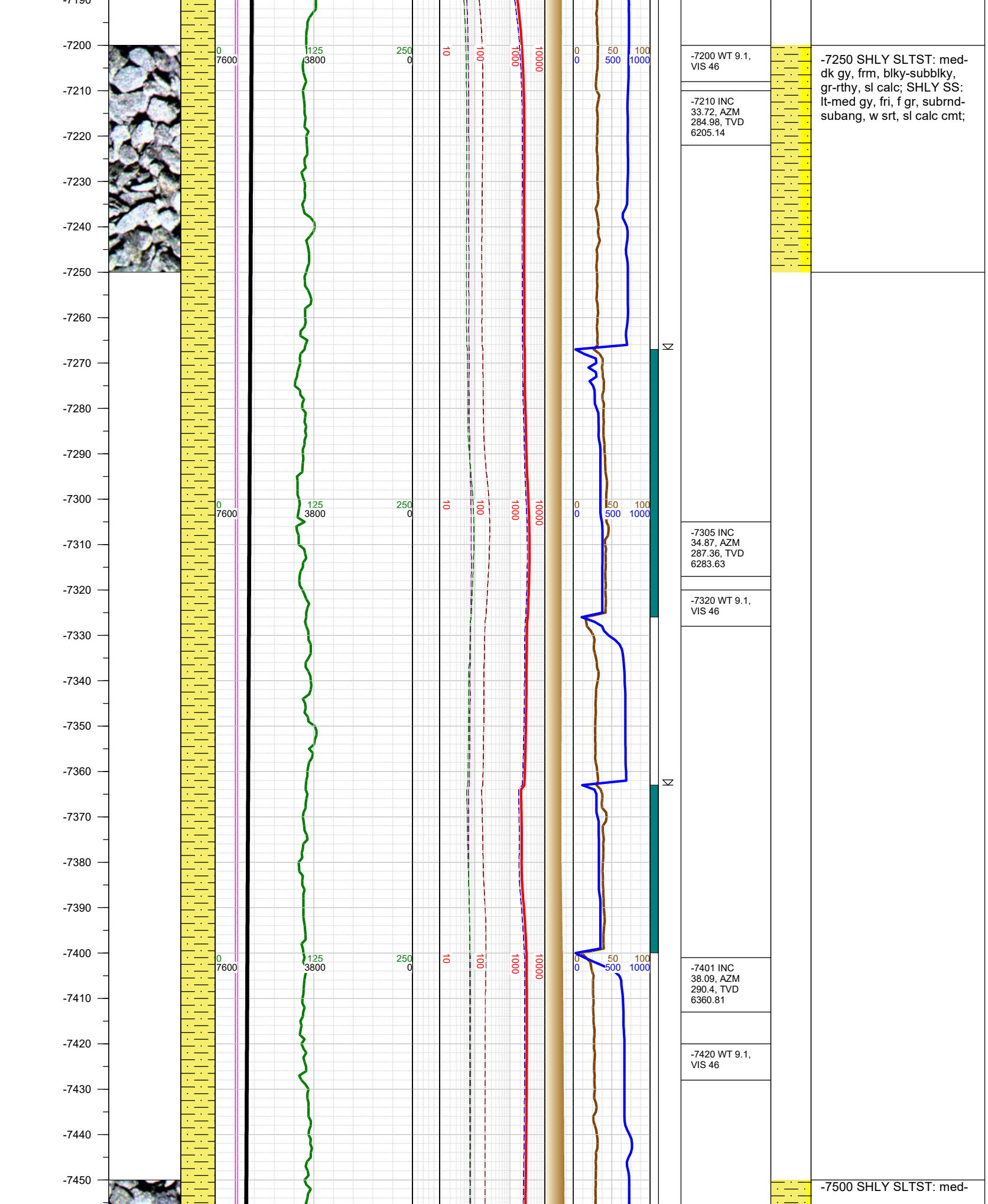
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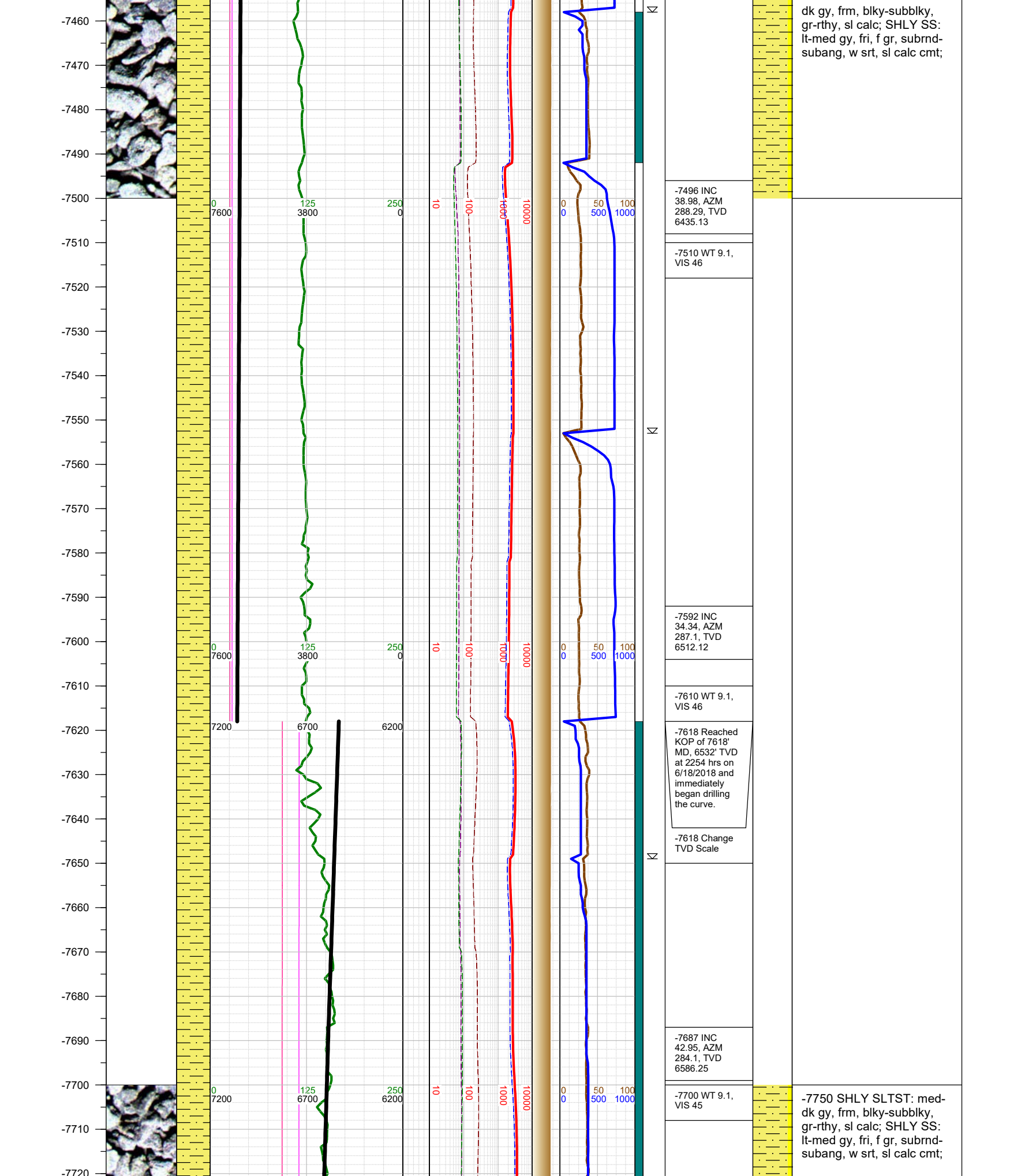
-7210 INC 33.72, AZM 284.98, TVD 6205.14
-7305 INC 34.87, AZM 287.36, TVD 6283.63
-7320 WT 9.1, VIS 46
-7401 INC 38.09, AZM 290.4, TVD 6360.81
-7420 WT 9.1, VIS 46
-7250 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, subrnd-subang, w srt, sl calc cmt;
-7500 SHLY SLTST: med-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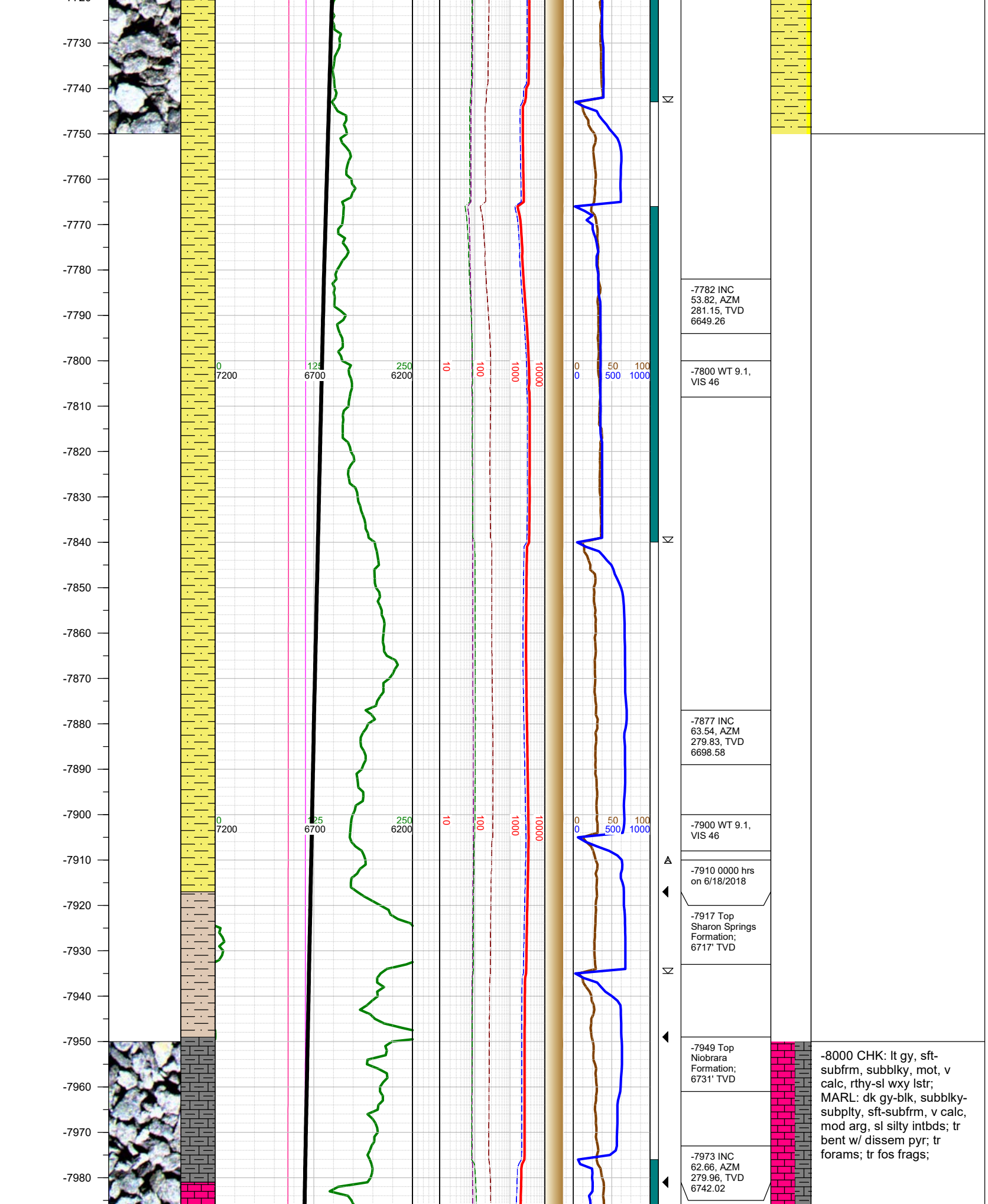
dk gy, frm, blky-subblky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, subrnd-subang, w srt, sl calc cmt;
-7496 INC 38.98, AZM 288.29, TVD 6435.13
-7510 WT 9.1, VIS 46
-7592 INC 34.34, AZM 287.1, TVD 6512.12
-7610 WT 9.1, VIS 46
-7618 Reached KOP of 7618' MD, 6532' TVD at 2254 hrs on 6/18/2018 and immediately began drilling the curve.
-7618 Change TVD Scale
-7687 INC 42.95, AZM 284.1, TVD 6586.25
-7700 WT 9.1, VIS 45
-7750 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, subrnd-subang, w srt, sl calc cmt;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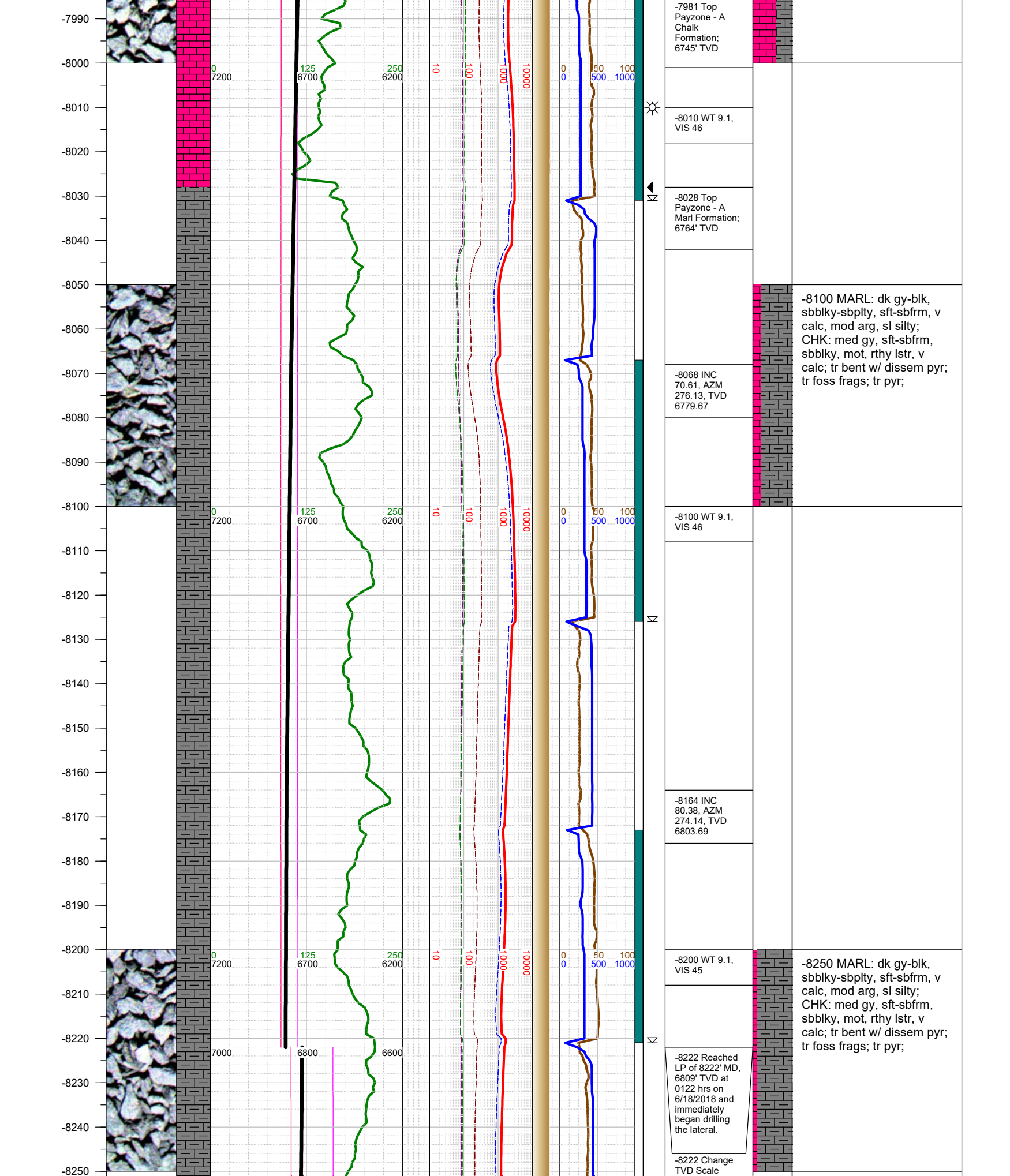
-7782 INC 53.82, AZM 281.15, TVD 6649.26
-7800 WT 9.1, VIS 46
-7877 INC 63.54, AZM 279.83, TVD 6698.58
-7900 WT 9.1, VIS 46
-7910 0000 hrs on 6/18/2018
-7917 Top Sharon Springs Formation; 6717' TVD
-7949 Top Niobrara Formation; 6731' TVD
-7973 INC 62.66, AZM 279.96, TVD 6742.02
-8000 CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent w/ dissem pyr; tr forams; tr fos frags;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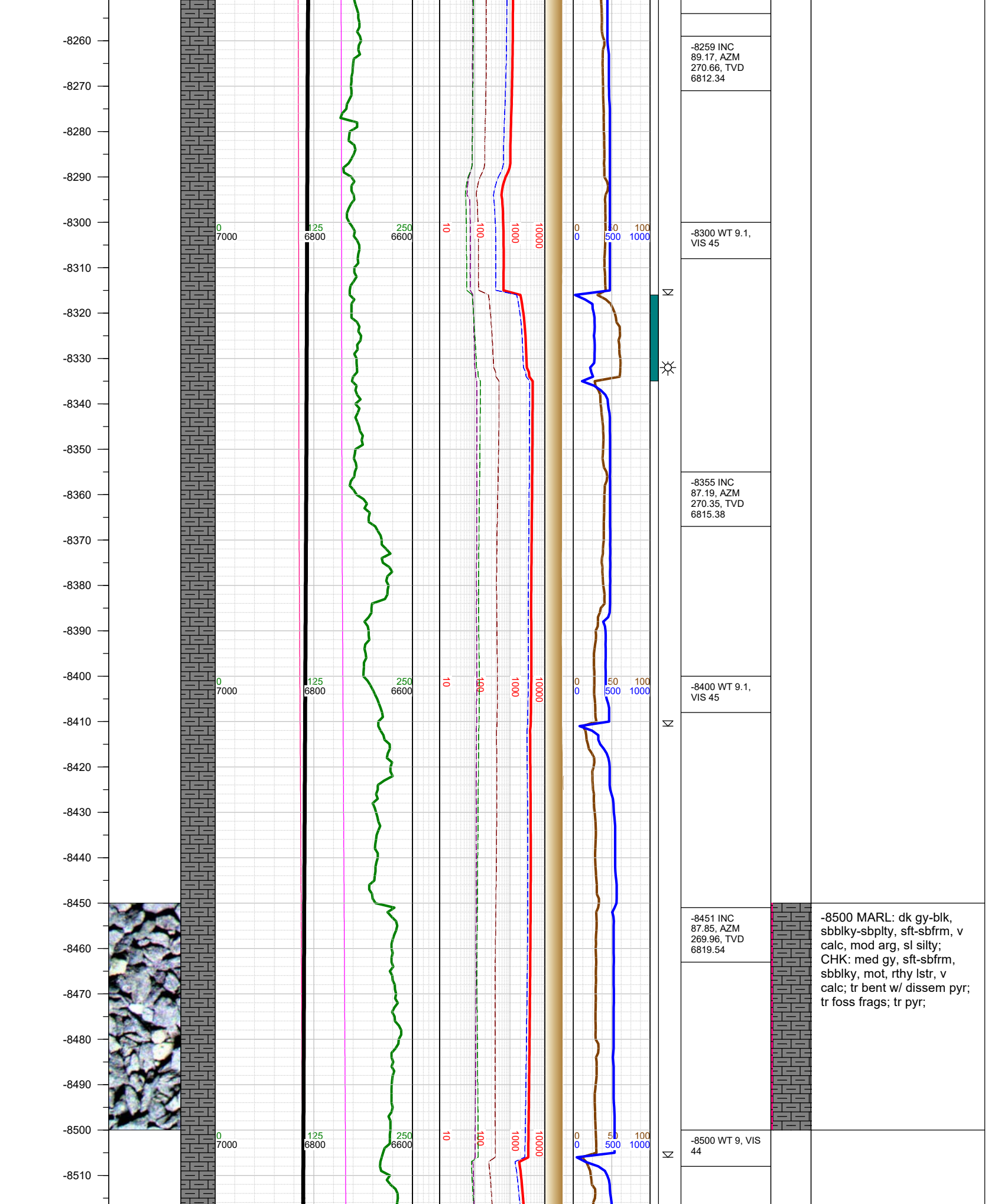
-7981 Top Payzone - A Chalk Formation; 6745' TVD
-8010 WT 9.1, VIS 46
-8028 Top Payzone - A Marl Formation; 6764' TVD
-8100 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr foss frags; tr pyr;
-8068 INC 70.61, AZM 276.13, TVD 6779.67
-8100 WT 9.1, VIS 46
-8164 INC 80.38, AZM 274.14, TVD 6803.69
-8200 WT 9.1, VIS 45
-8250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr foss frags; tr pyr;
-8222 Reached LP of 8222' MD, 6809' TVD at 0122 hrs on 6/18/2018 and immediately began drilling the lateral.
-8222 Change TVD Scale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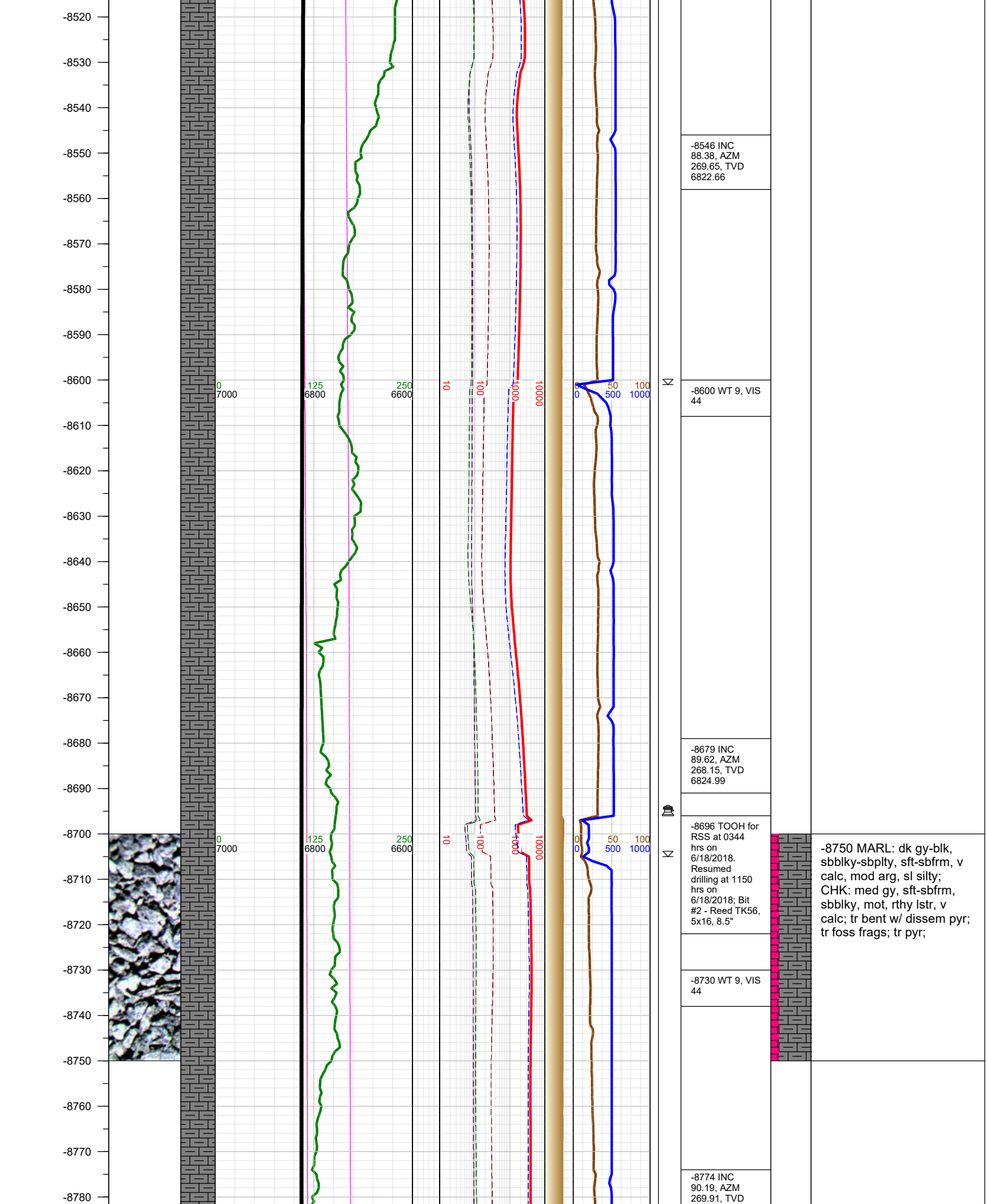
-8259 INC 89.17, AZM 270.66, TVD 6812.34
-8300 WT 9.1, VIS 45
-8355 INC 87.19, AZM 270.35, TVD 6815.38
-8400 WT 9.1, VIS 45
-8451 INC 87.85, AZM 269.96, TVD 6819.54
-8500 WT 9, VIS 44
-8500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr foss frags; tr pyr;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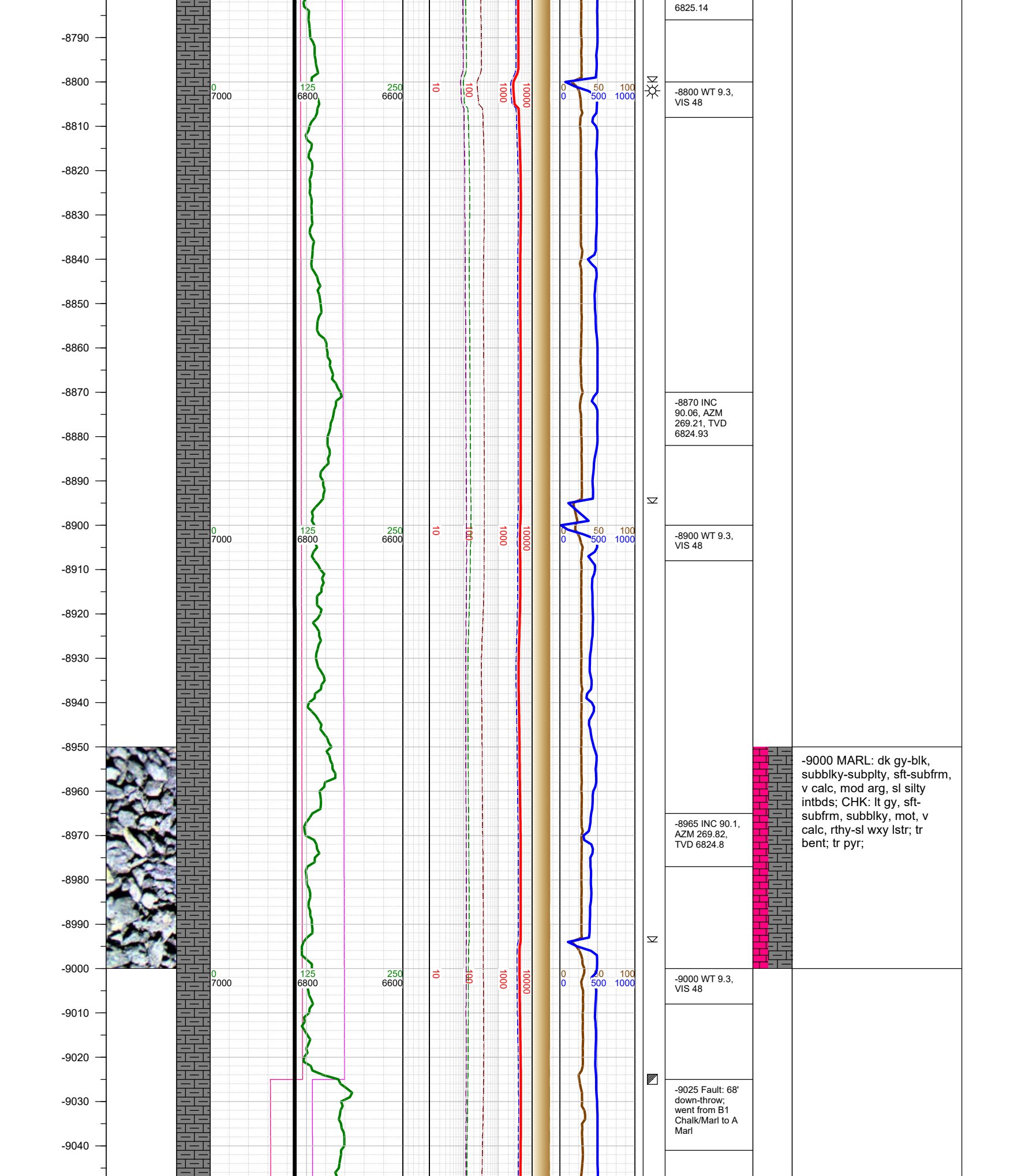
-8546 INC 88.38, AZM 269.65, TVD 6822.66
-8600 WT 9, VIS 44
-8679 INC 89.62, AZM 268.15, TVD 6824.99
-8696 TOOH for RSS at 0344 hrs on 6/18/2018. Resumed drilling at 1150 hrs on 6/18/2018; Bit #2 - Reed TK56, 5x16, 8.5"
-8730 WT 9, VIS 44
-8774 INC 90.19, AZM 269.91, TVD
-8750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr foss frags; tr pyr;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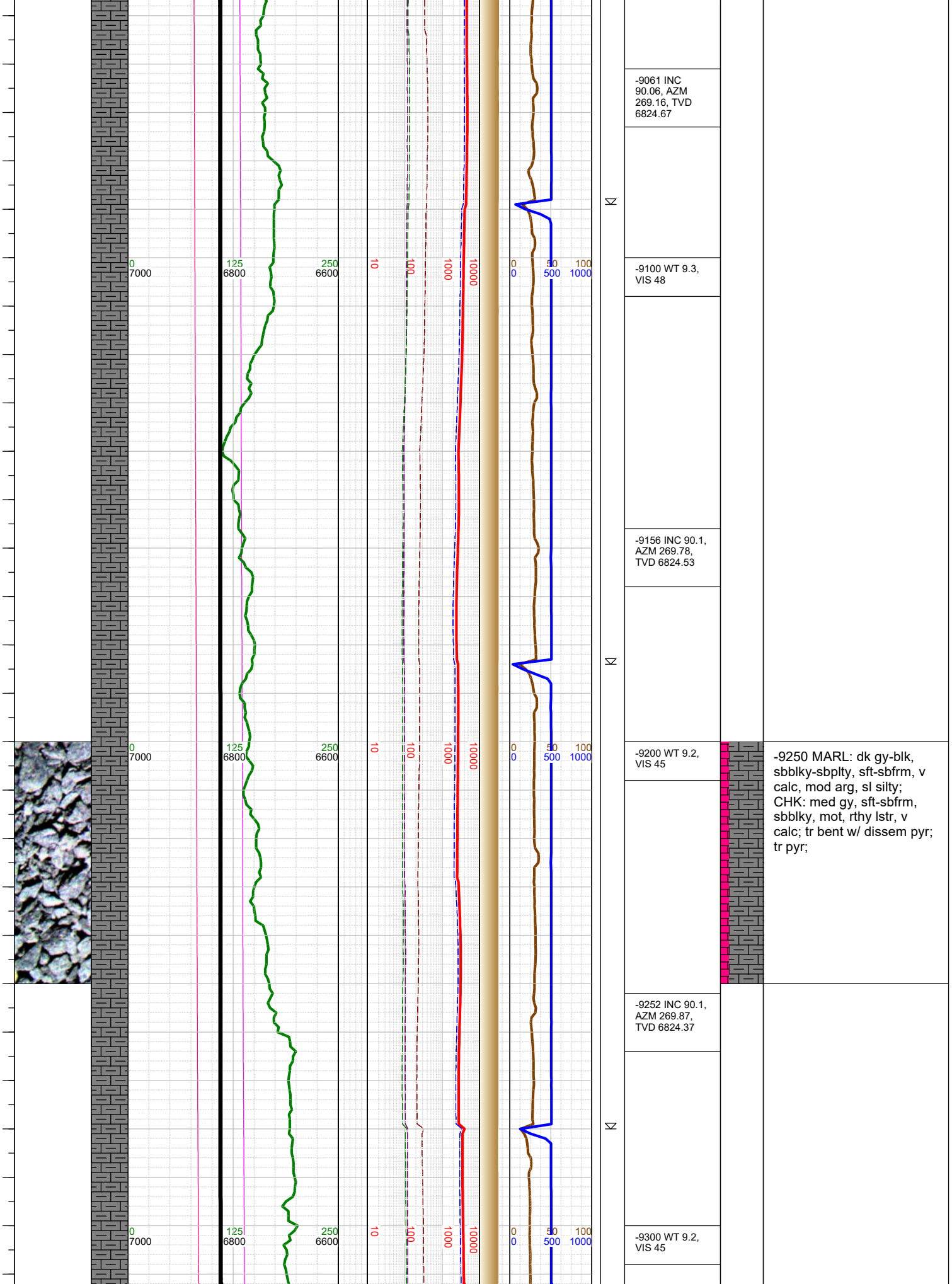
-8800 WT 9.3, VIS 48
-8870 INC 90.06, AZM 269.21, TVD 6824.93
-8900 WT 9.3, VIS 48
-8965 INC 90.1, AZM 269.82, TVD 6824.8
-9000 MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr bent; tr pyr;
-9000 WT 9.3, VIS 48
-9025 Fault: 68' down-throw; went from B1 Chalk/Marl to A Marl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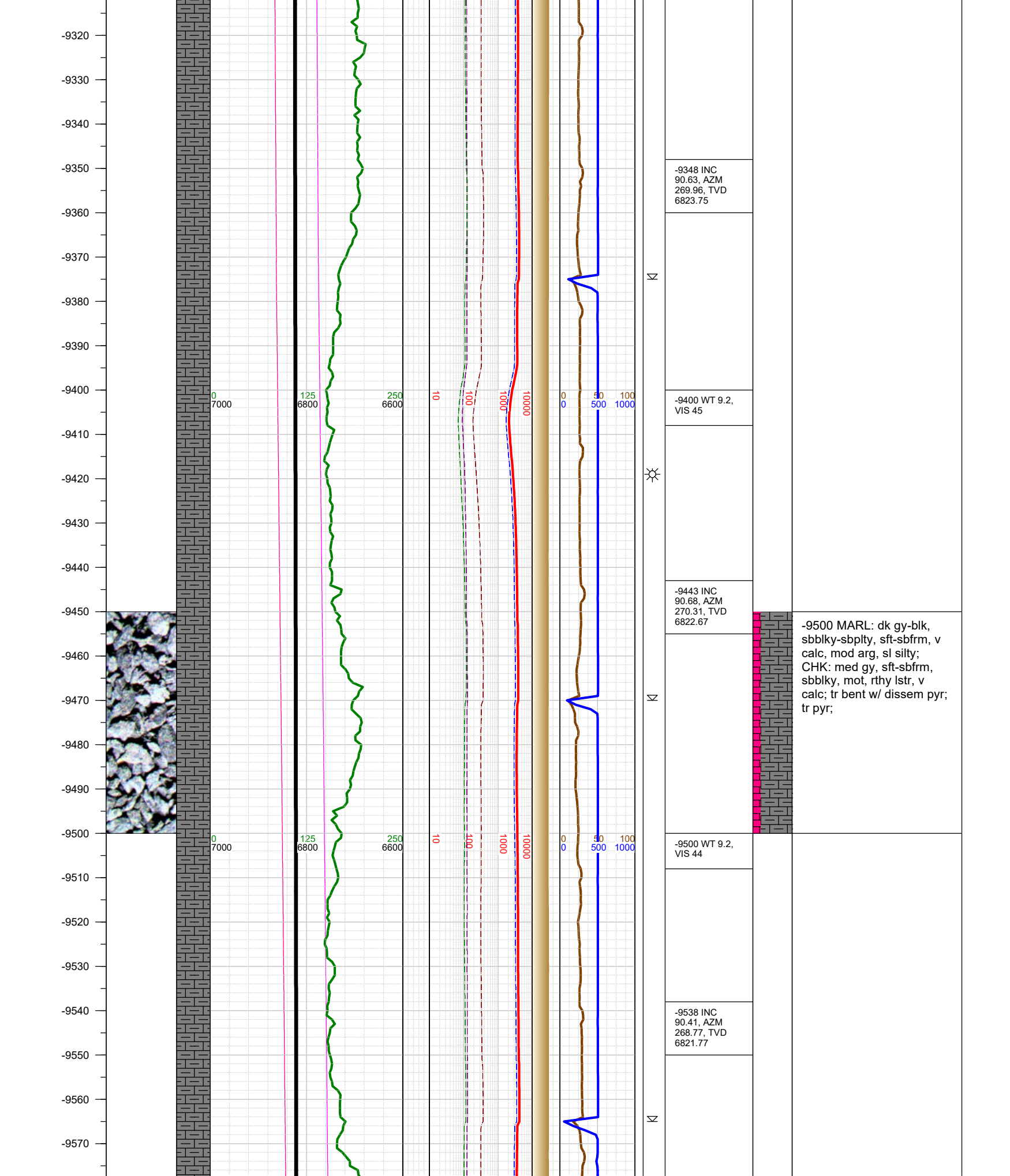
-9061 INC 90.06, AZM 269.16, TVD 6824.67
-9100 WT 9.3, VIS 48
-9156 INC 90.1, AZM 269.78, TVD 6824.53
-9200 WT 9.2, VIS 45
-9250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;
-9252 INC 90.1, AZM 269.87, TVD 6824.37
-9300 WT 9.2, VIS 45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-9348 INC
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-9400 WT 9.2,
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-9443 INC
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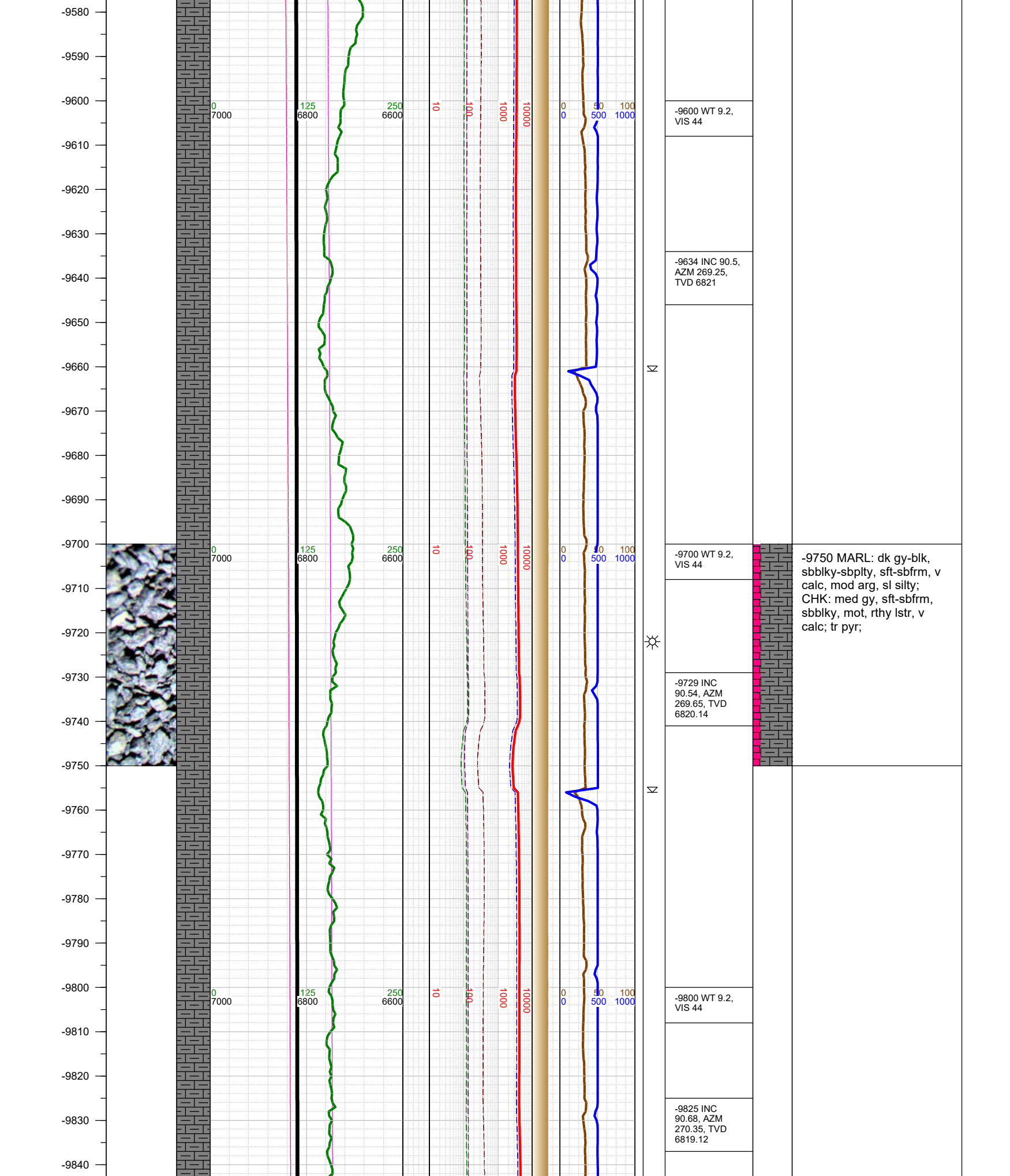
270.31, TVD
6822.67
-9500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;
-9500 WT 9.2,
VIS 44
-9538 INC
90.41, AZM
268.77, TVD
6821.77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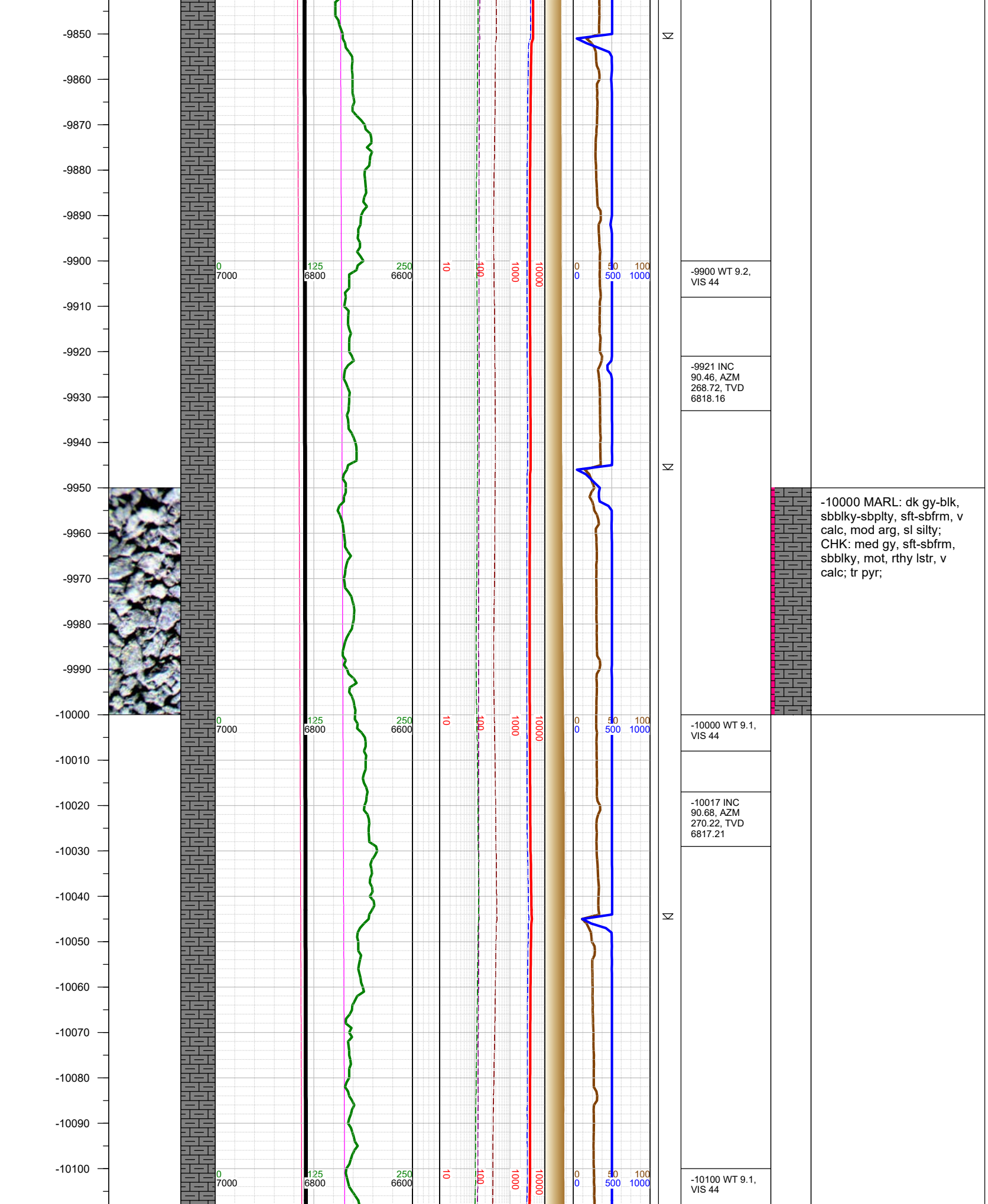
-9600 WT 9.2, VIS 44
-9634 INC 90.5, AZM 269.25, TVD 6821
-9700 WT 9.2, VIS 44
-9729 INC 90.54, AZM 269.65, TVD 6820.14
-9750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;
-9800 WT 9.2, VIS 44
-9825 INC 90.68, AZM 270.35, TVD 6819.12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-9900 WT 9.2, VIS 44
-9921 INC 90.46, AZM 268.72, TVD 6818.16
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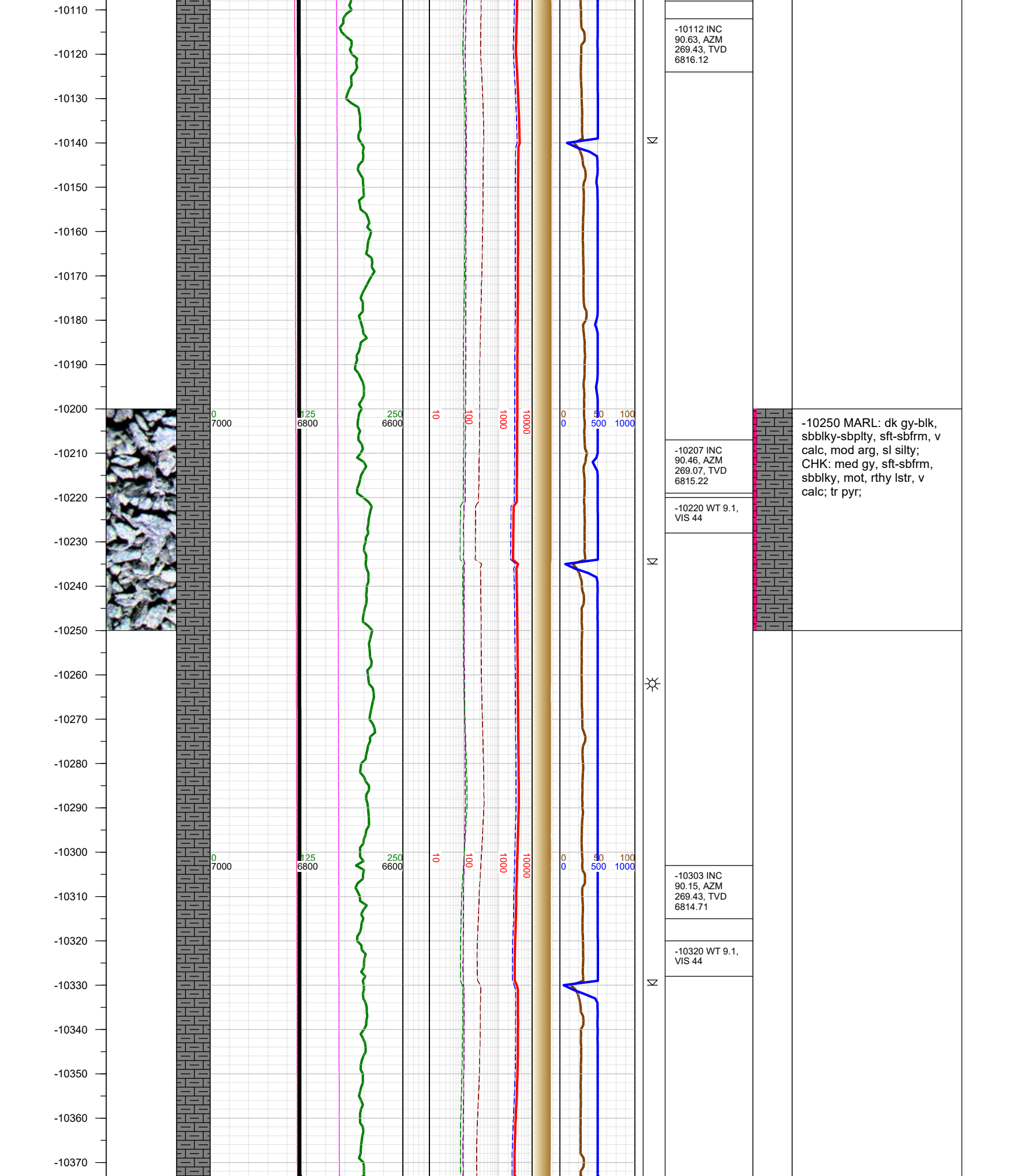
-10000 WT 9.1, VIS 44
-10017 INC 90.68, AZM 270.22, TVD 6817.21
-10100 WT 9.1, VIS 44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-10207 INC 90.46, AZM 269.07, TVD 6815.22
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-10303 INC 90.15, AZM 269.43, TVD 6814.71
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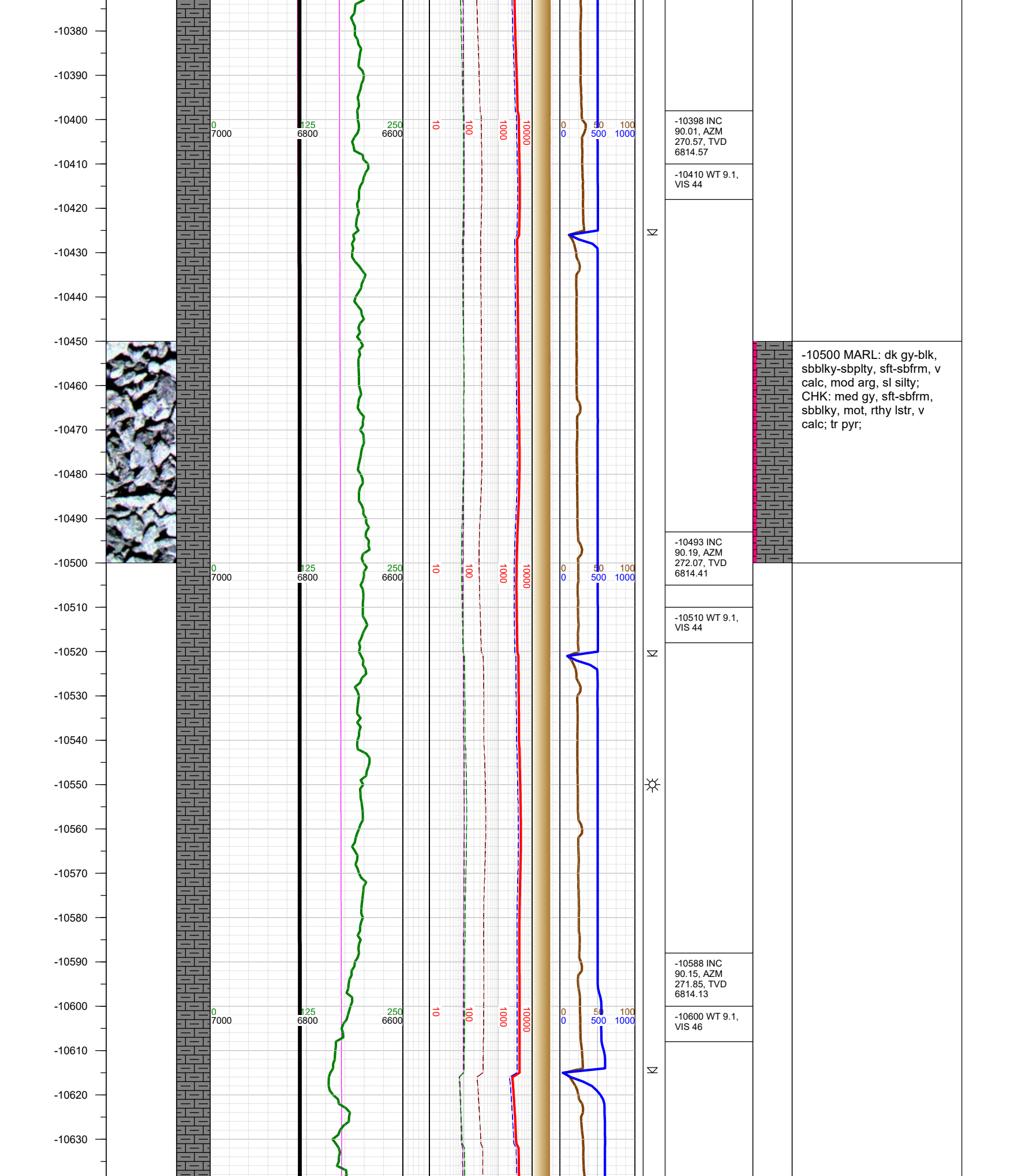
-10250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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-10493 INC 90.19, AZM 272.07, TVD 6814.41
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-10588 INC 90.15, AZM 271.85, TVD 6814.13
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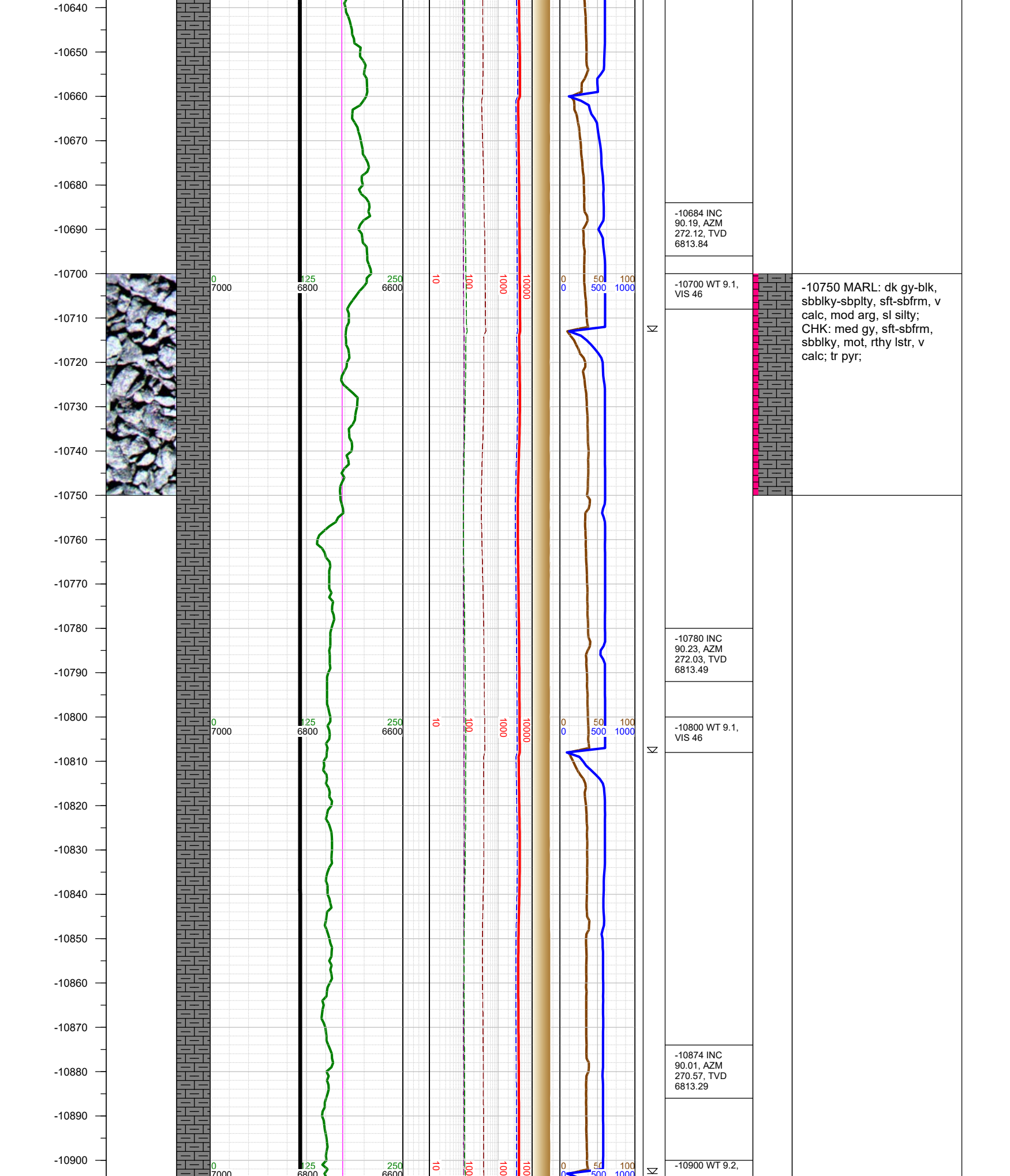
-10500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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-10684 INC 90.19, AZM 272.12, TVD 6813.84
-10700 WT 9.1, VIS 46
-10750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;
-10780 INC 90.23, AZM 272.03, TVD 6813.49
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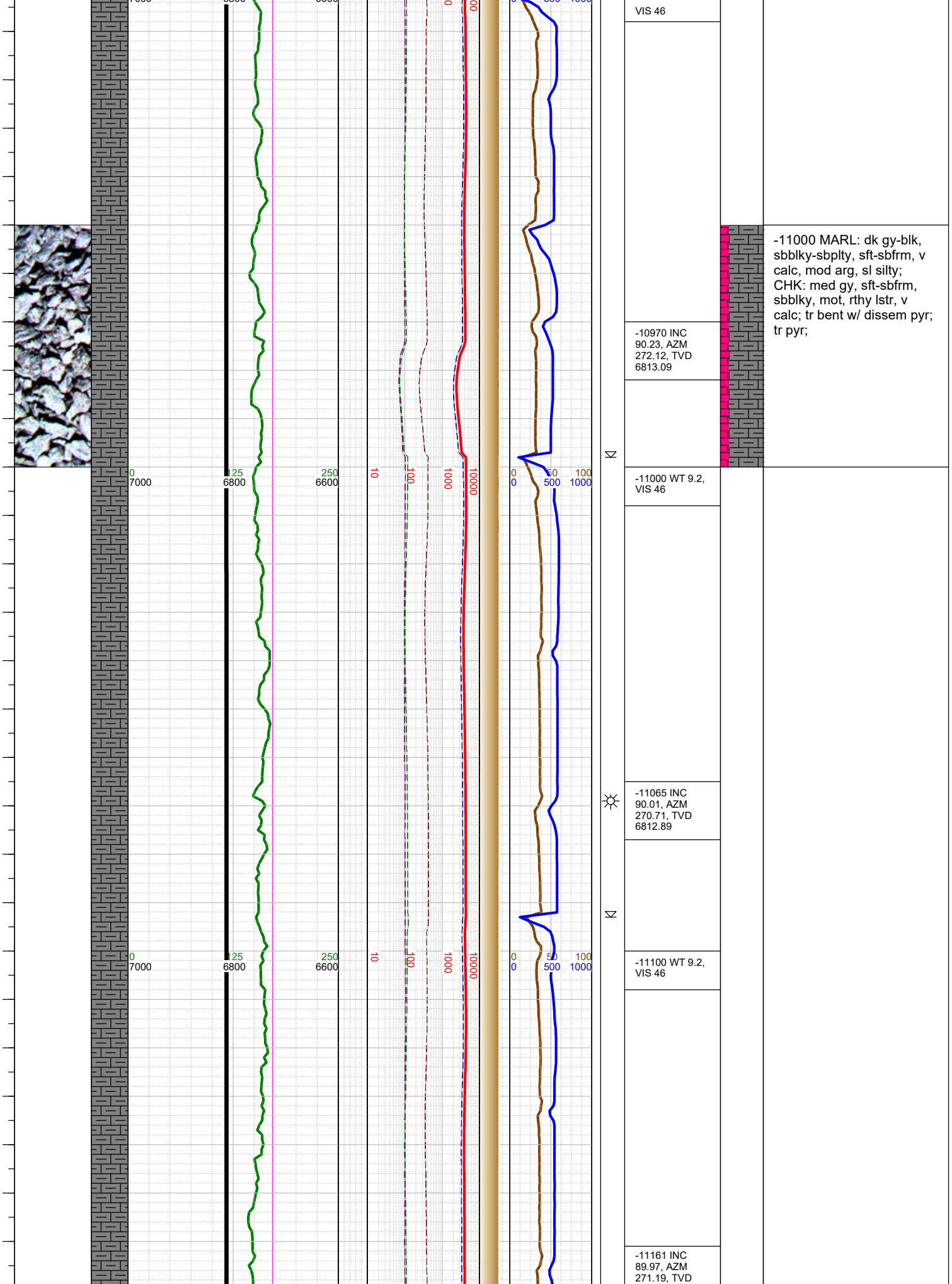
-10874 INC 90.01, AZM 270.57, TVD 6813.29
-10900 WT 9.2,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-11000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;
-11000 WT 9.2, VIS 46
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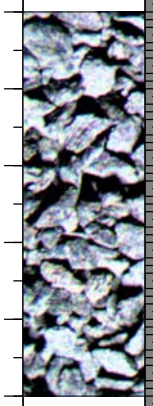
-11161 INC 89.97, AZM 271.19, TVD



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-11200 WT 9.2, VIS 46

-11250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;

-11256 INC 90.19, AZM 271.81, TVD 6812.78

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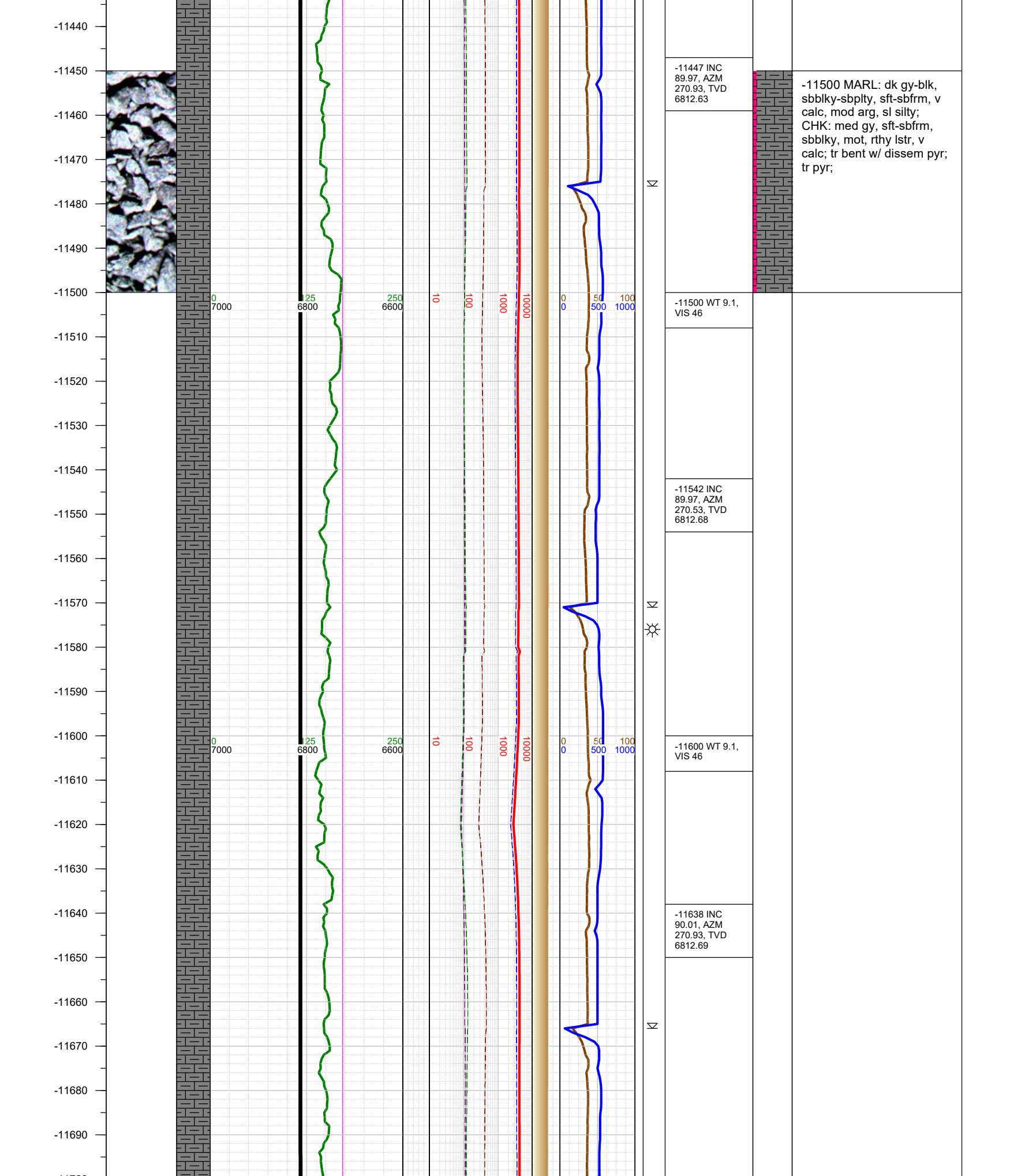
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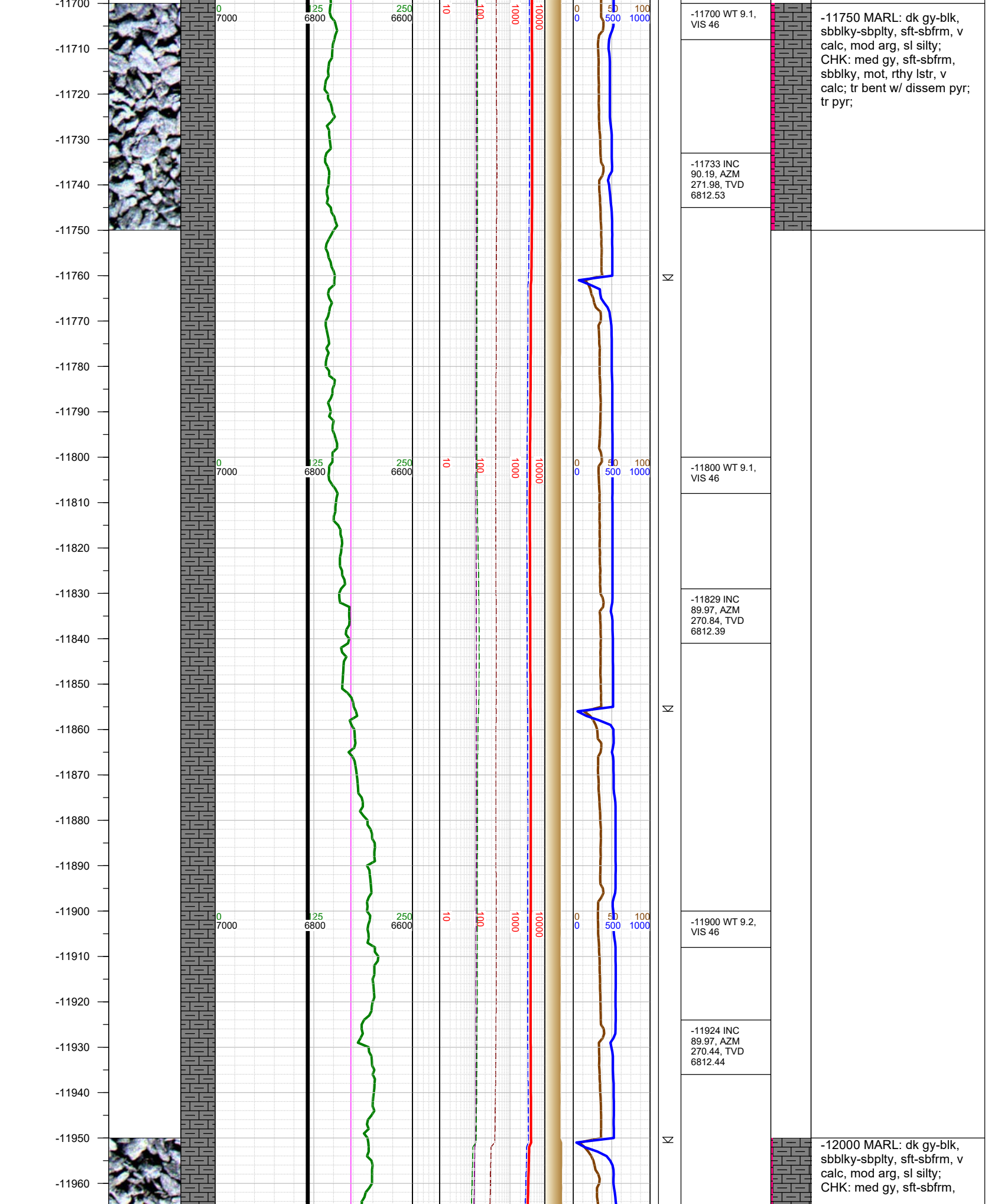
-11638 INC 90.01, AZM 270.93, TVD 6812.69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-11800 WT 9.1, VIS 46
-11829 INC 89.97, AZM 270.84, TVD 6812.39
-11900 WT 9.2, VIS 46
-11924 INC 89.97, AZM 270.44, TVD 6812.44
-11750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;
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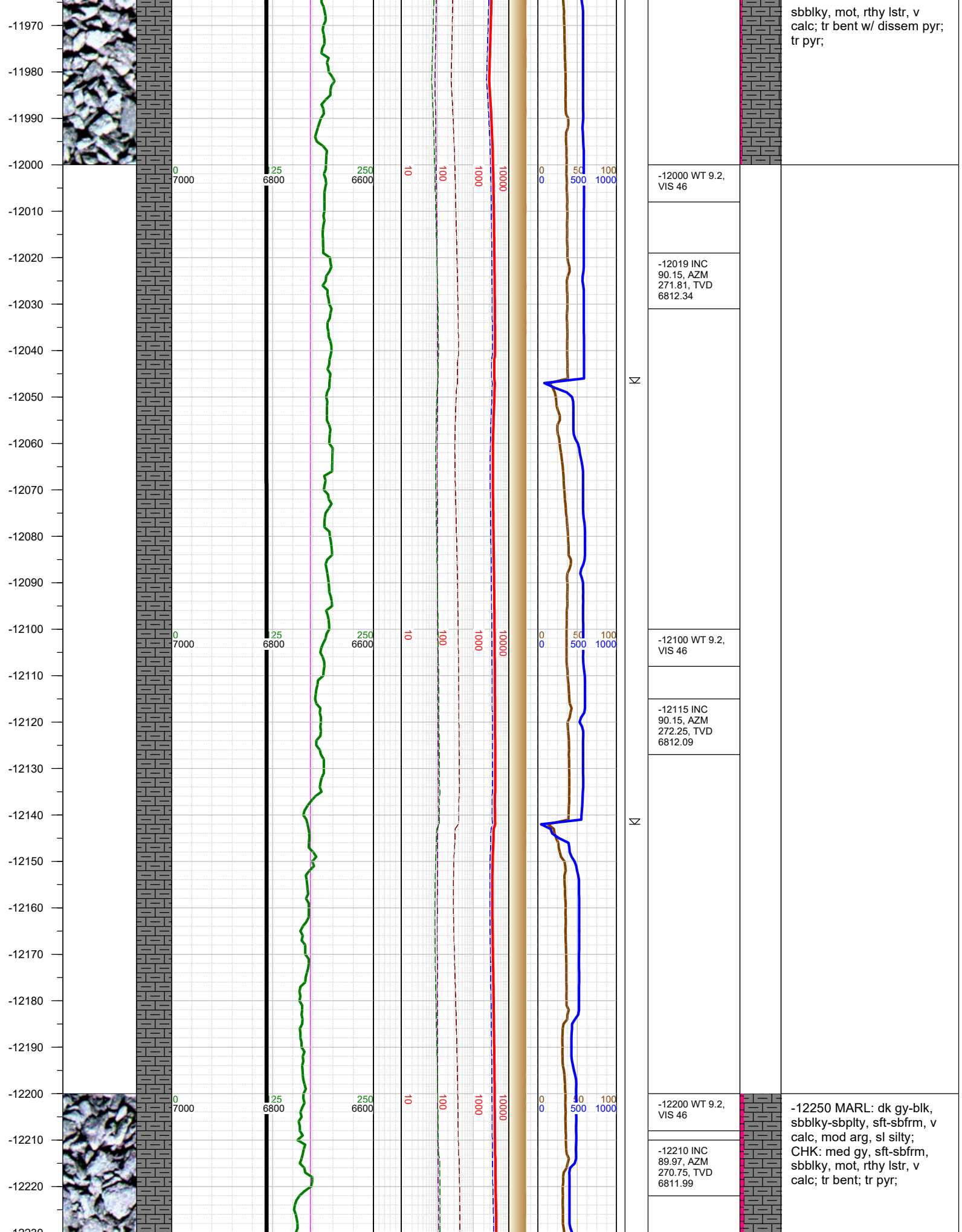
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sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;
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-12019 INC 90.15, AZM 271.81, TVD 6812.34
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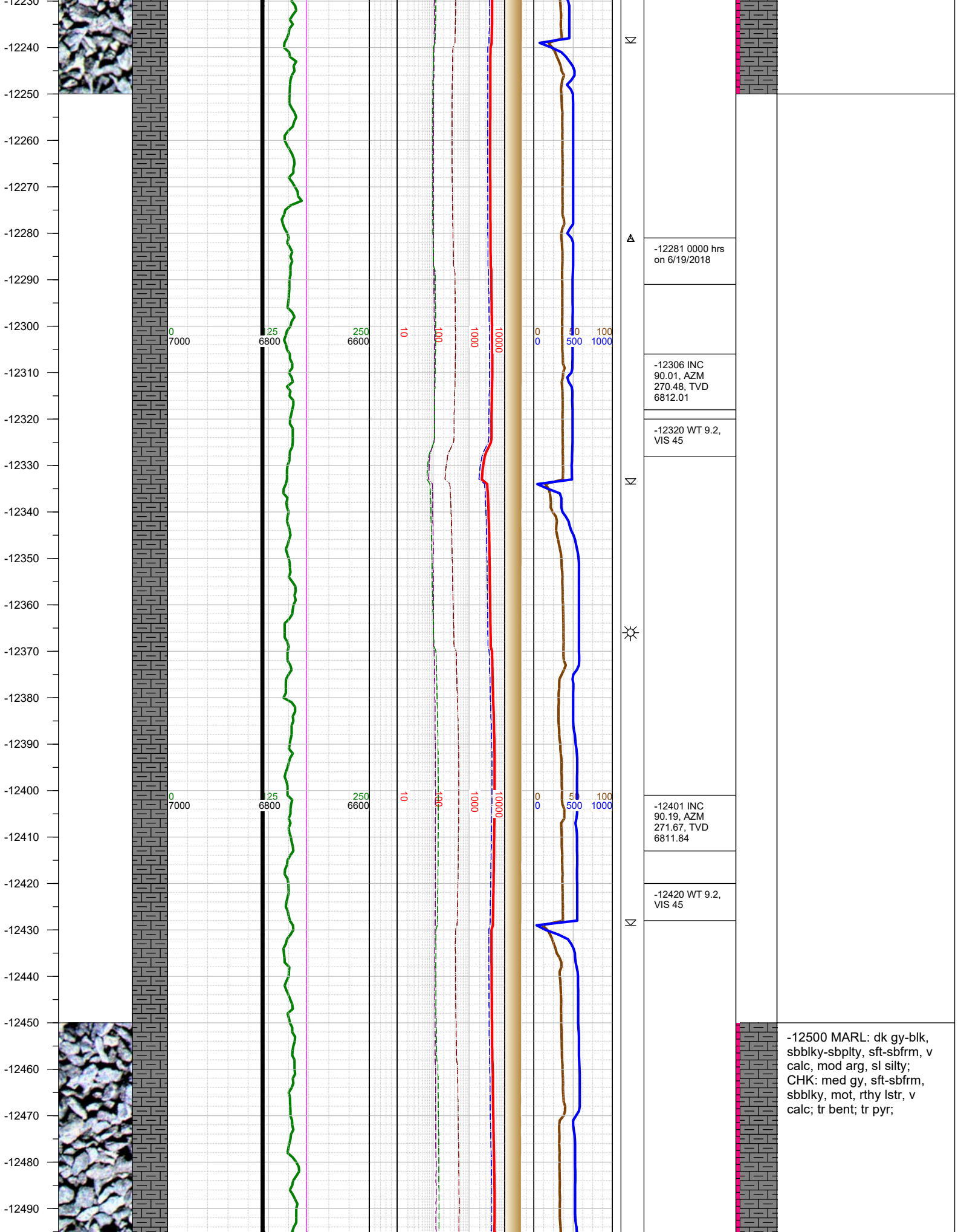
-12115 INC 90.15, AZM 272.25, TVD 6812.09
-12200 WT 9.2, VIS 46
-12210 INC 89.97, AZM 270.75, TVD 6811.99
-12250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent; tr pyr;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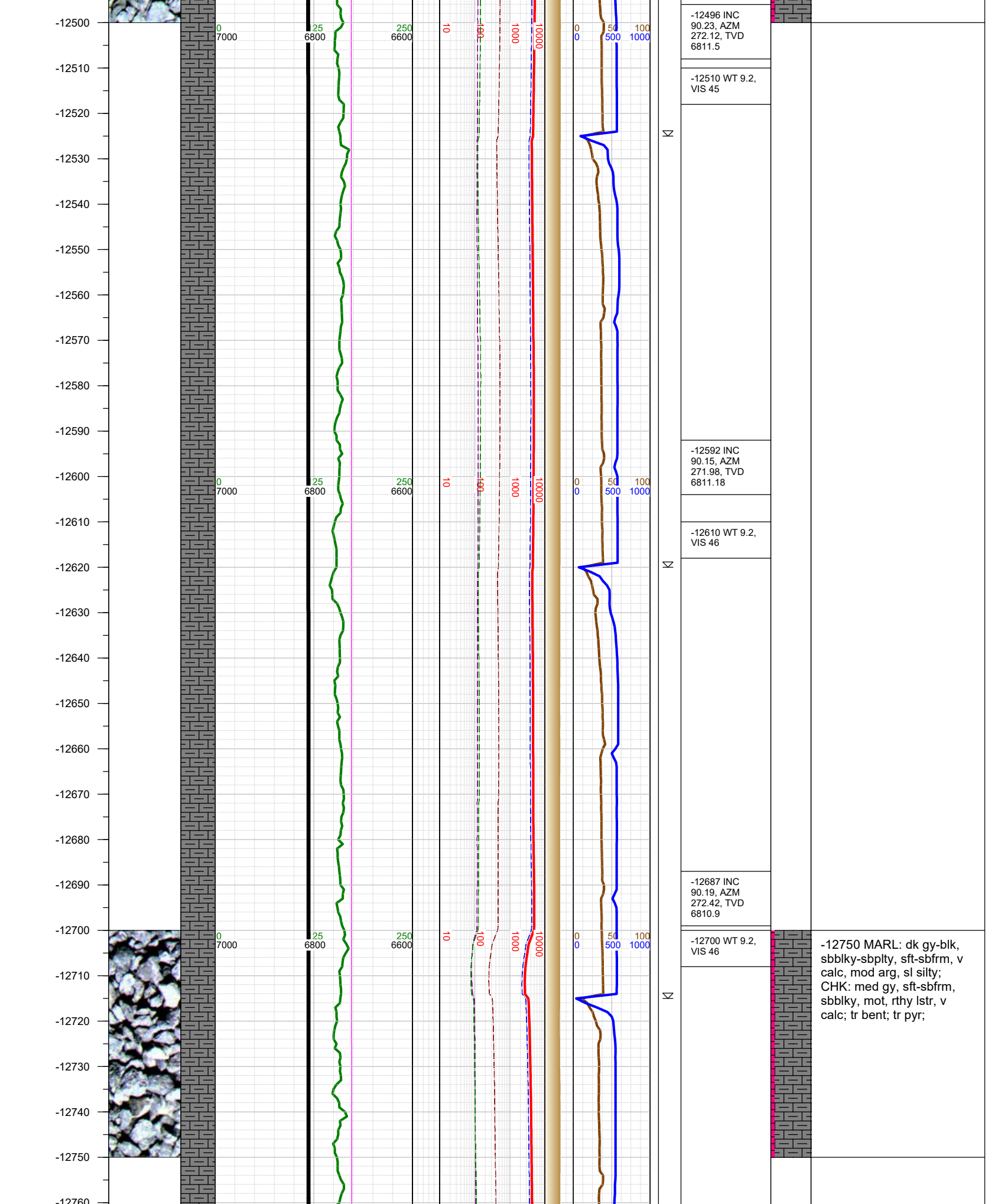
-12401 INC 90.19, AZM 271.67, TVD 6811.84
-12420 WT 9.2, VIS 45
-12500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent; tr pyr;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-12592 INC 90.15, AZM 271.98, TVD 6811.18
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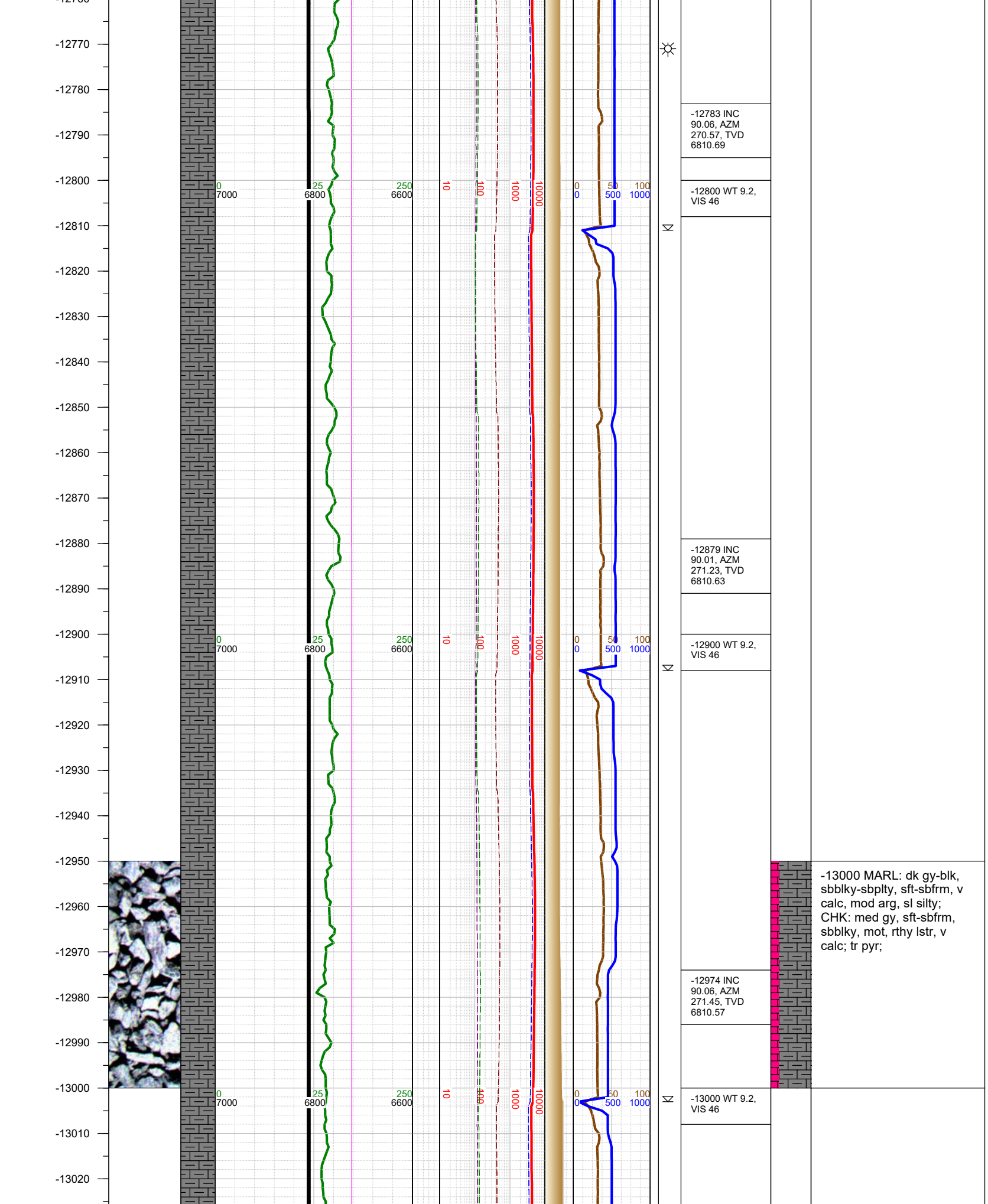
-12687 INC 90.19, AZM 272.42, TVD 6810.9
-12700 WT 9.2, VIS 46
-12750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent; tr pyr;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-12974 INC 90.06, AZM 271.45, TVD 6810.57
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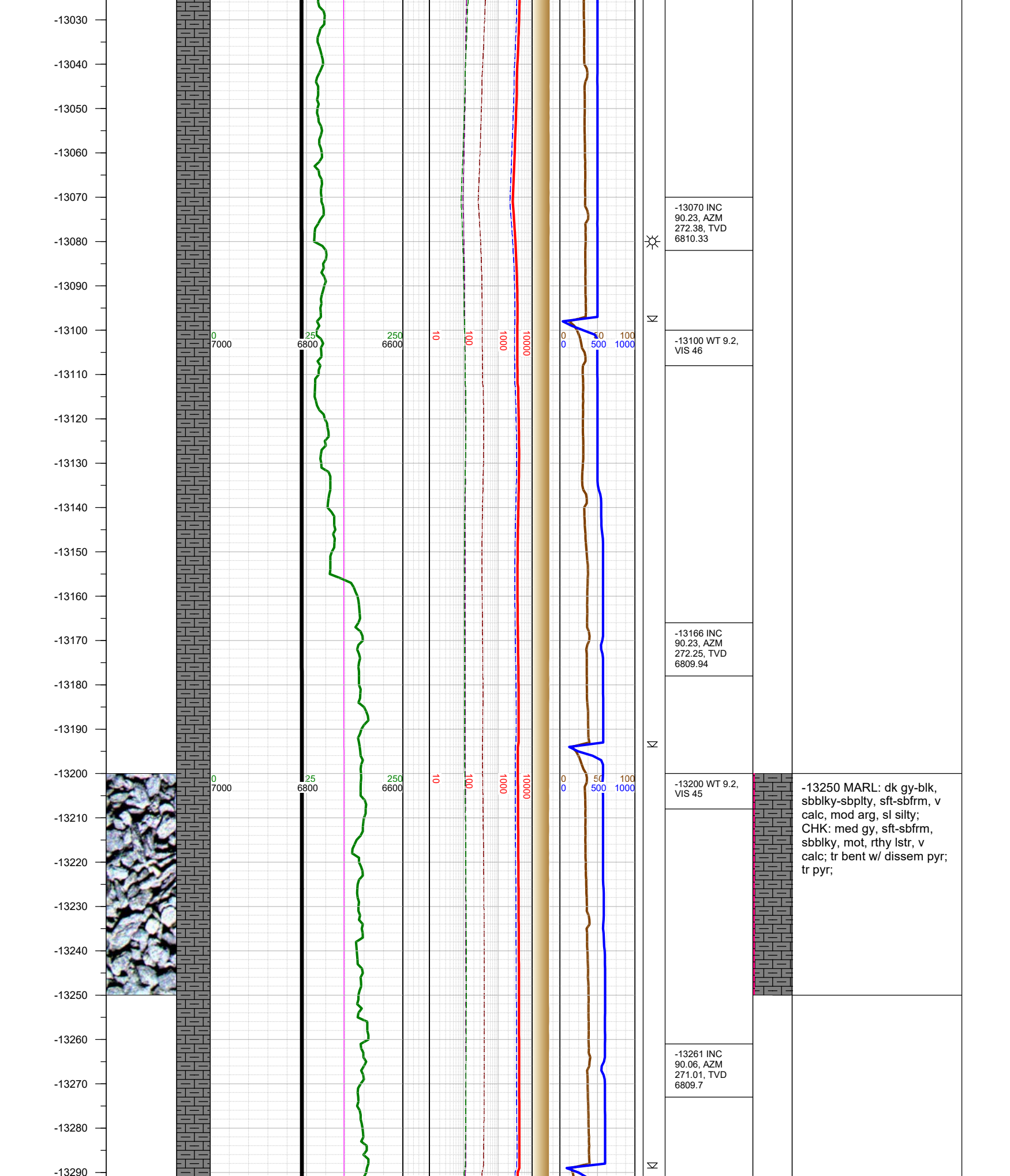
-13000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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-13166 INC 90.23, AZM 272.25, TVD 6809.94
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-13250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;
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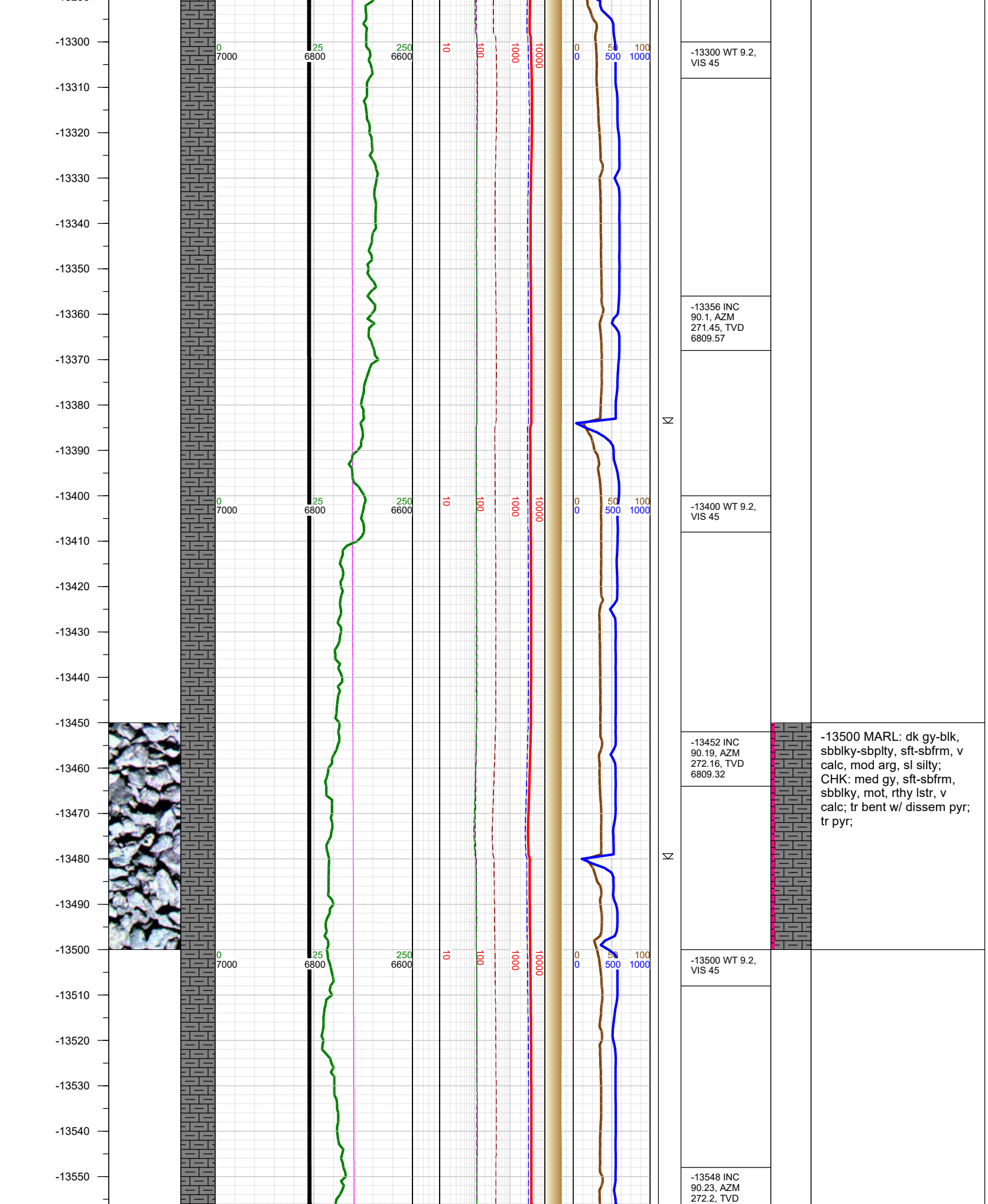
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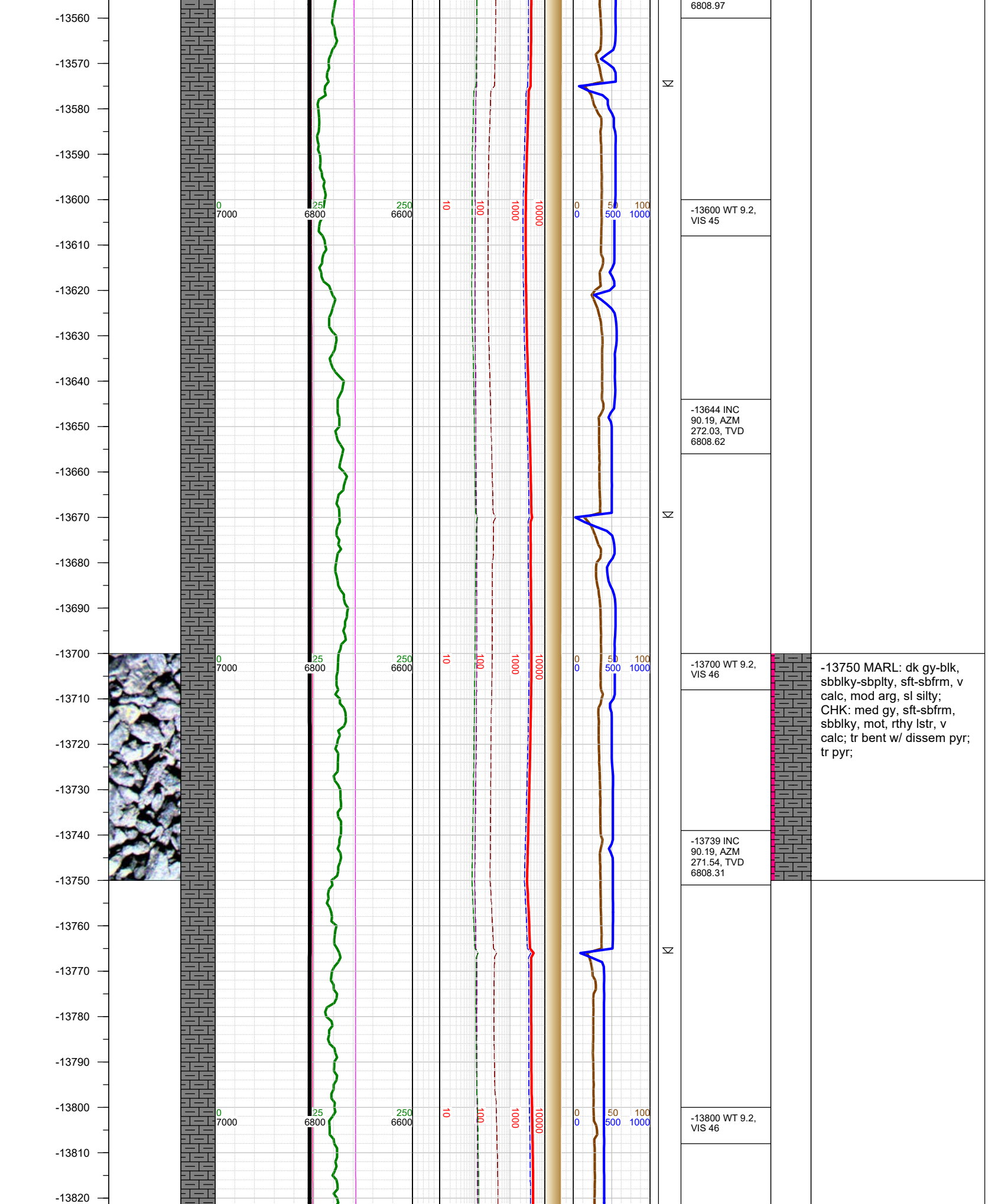
-13452 INC 90.19, AZM 272.16, TVD 6809.32
-13500 WT 9.2, VIS 45
-13548 INC 90.23, AZM 272.2, TVD
-13500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent w/ dissem pyr; tr pyr;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-13739 INC 90.19, AZM 271.54, TVD 6808.31
-13800 WT 9.2, VIS 46
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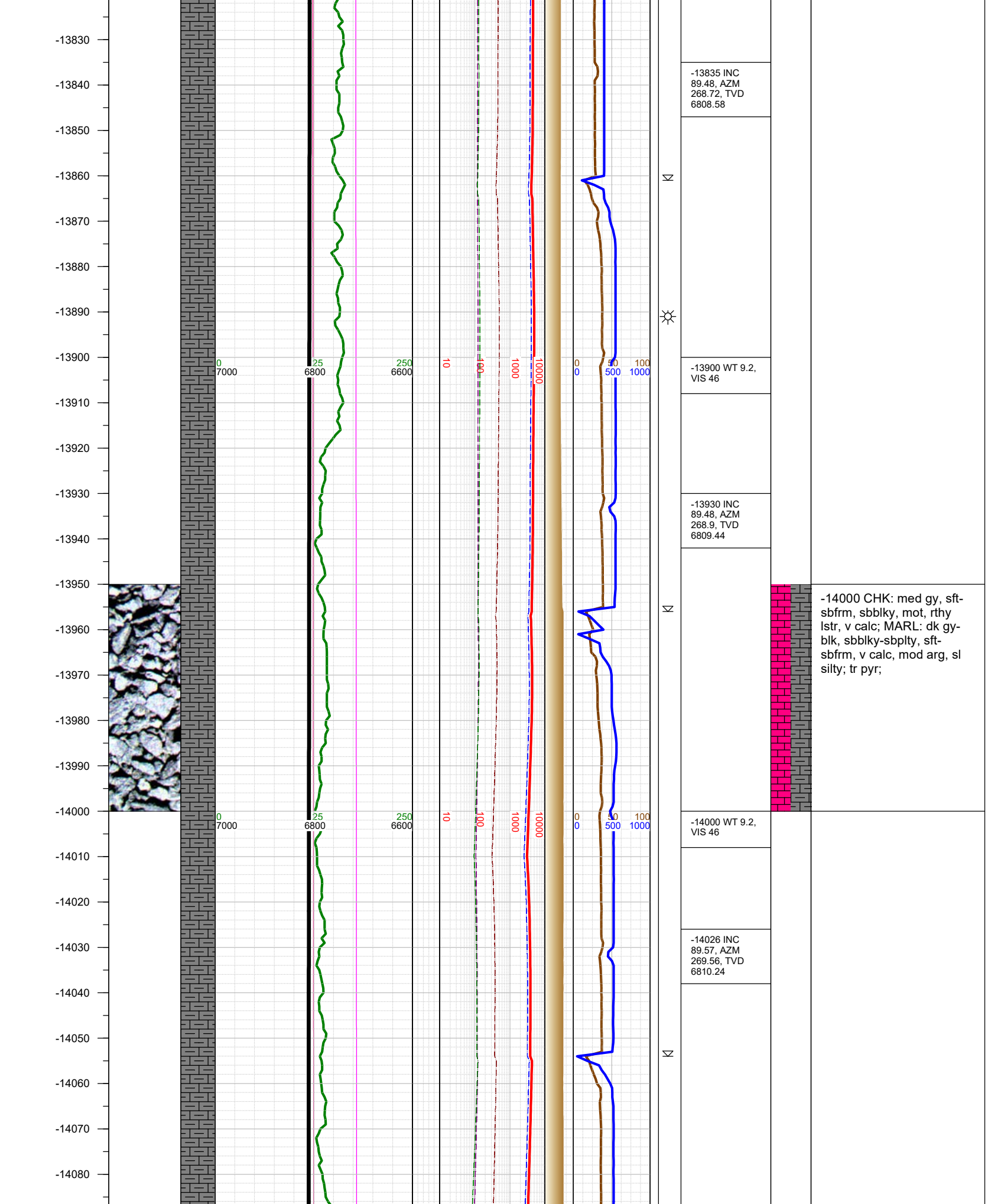
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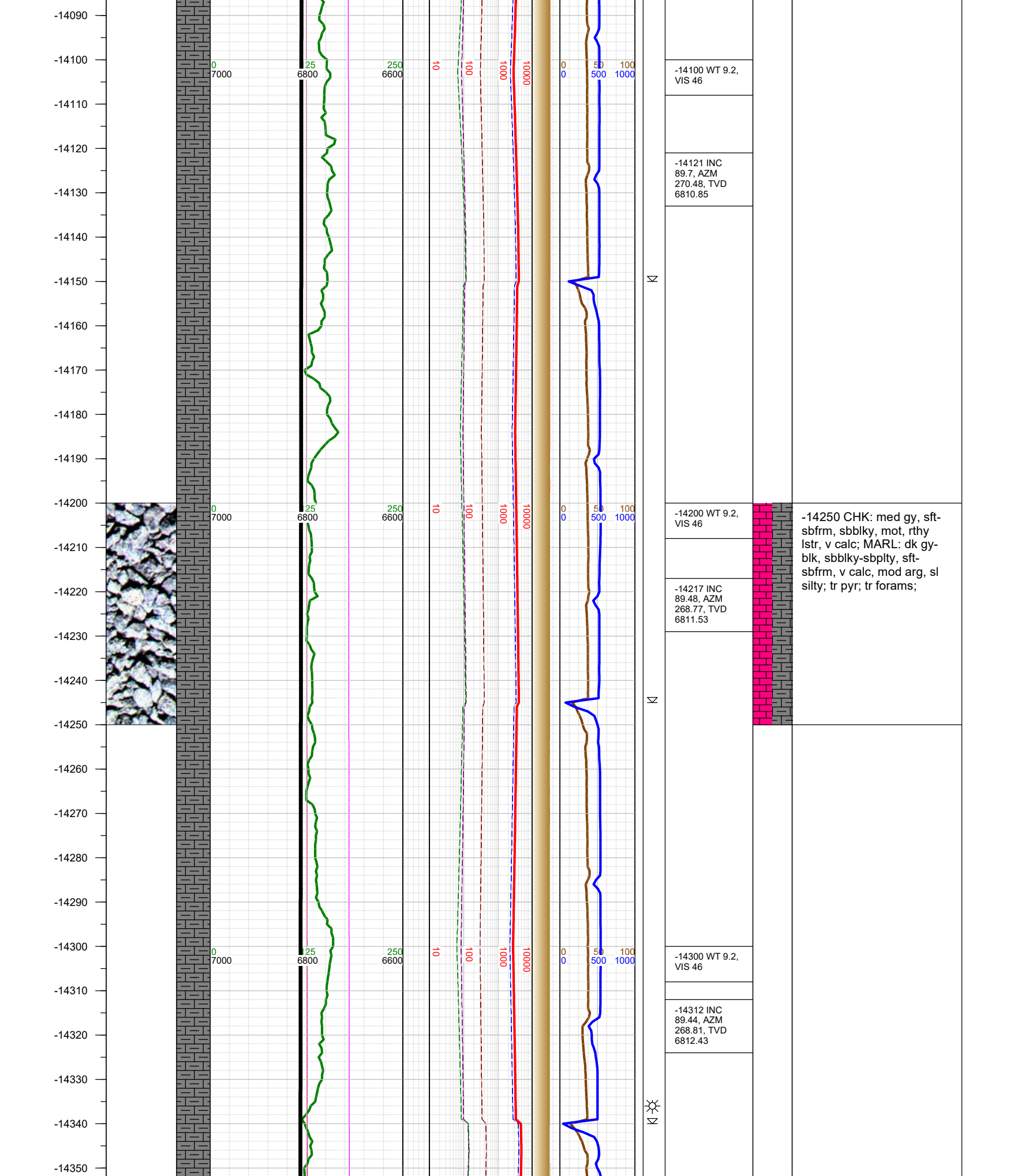
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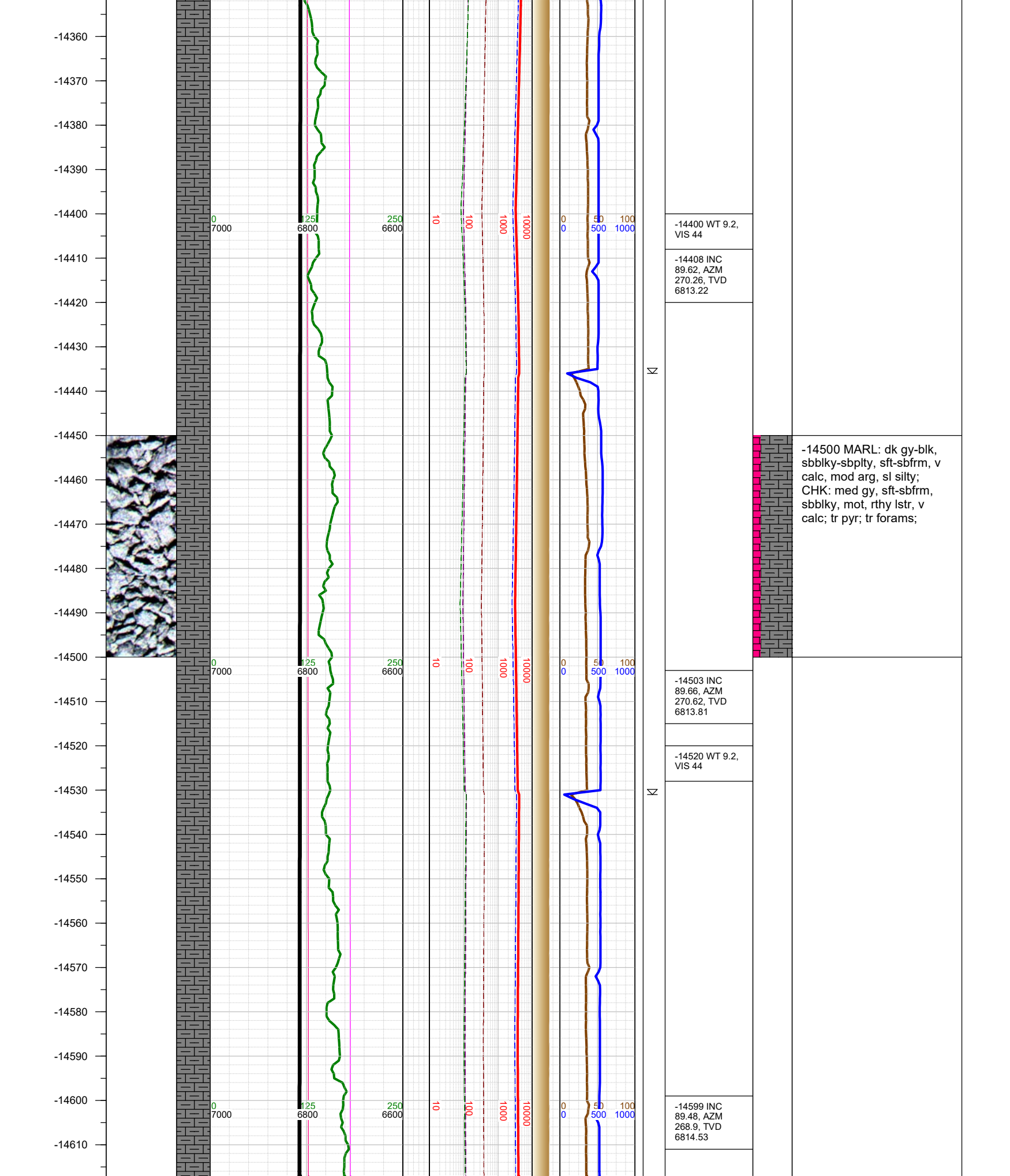
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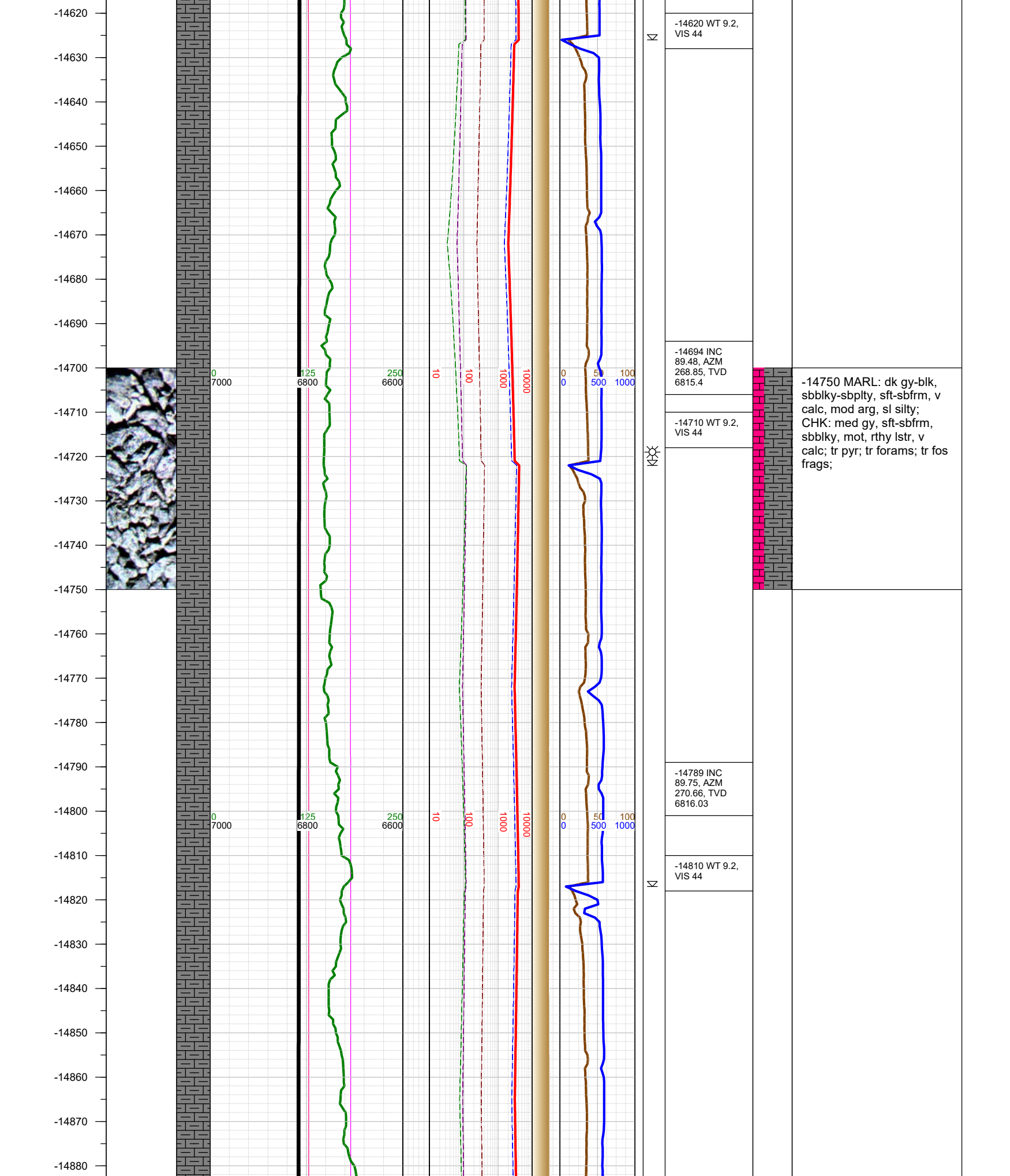
-14400 WT 9.2, VIS 44
-14408 INC 89.62, AZM 270.26, TVD 6813.22
-14500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr; tr forams;
-14503 INC 89.66, AZM 270.62, TVD 6813.81
-14520 WT 9.2, VIS 44
-14599 INC 89.48, AZM 268.9, TVD 6814.53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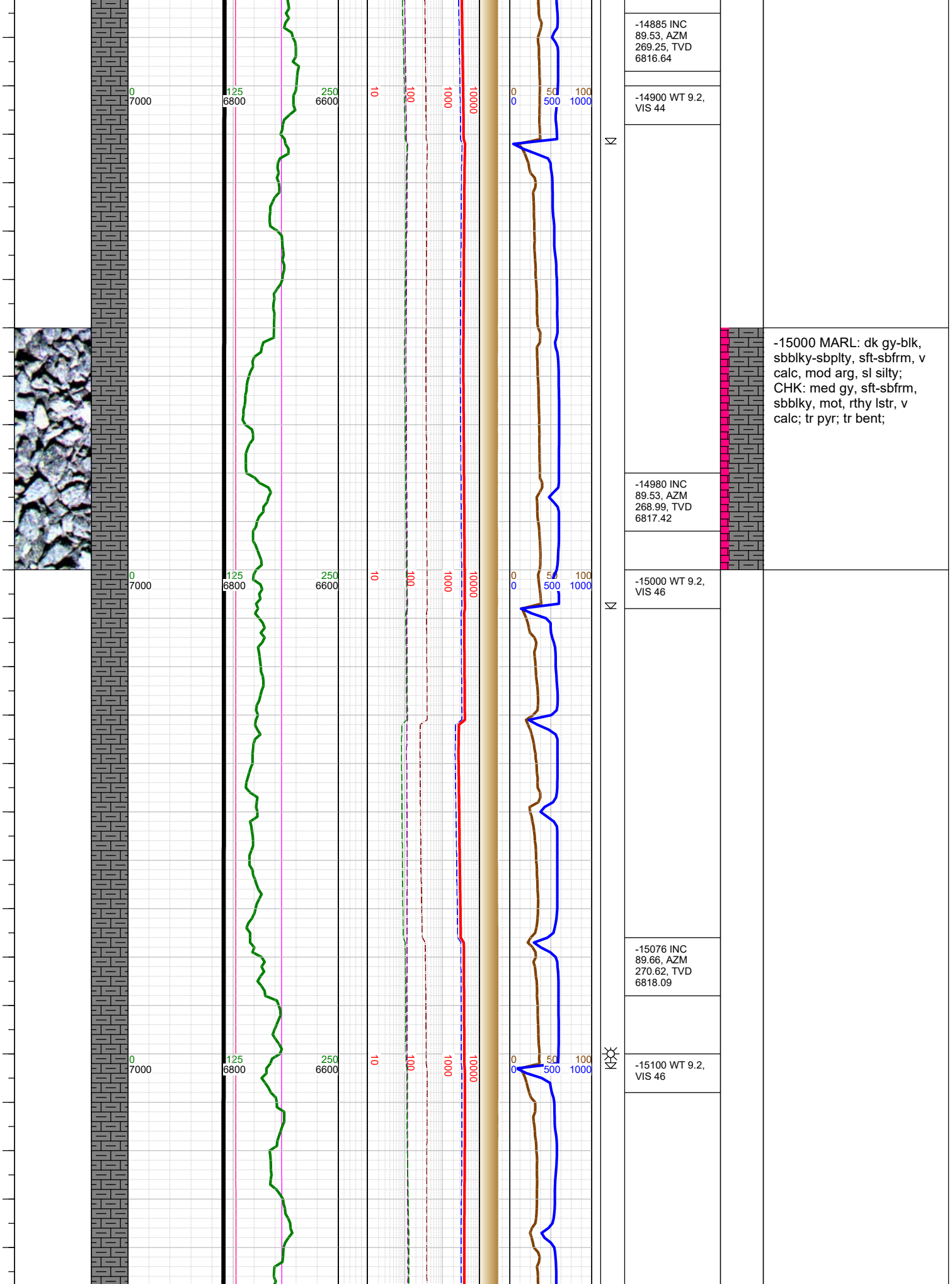
-14620 WT 9.2, VIS 44
-14694 INC 89.48, AZM 268.85, TVD 6815.4
-14710 WT 9.2, VIS 44
-14750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr; tr forams; tr fos frags;
-14789 INC 89.75, AZM 270.66, TVD 6816.03
-14810 WT 9.2, VIS 44


-14885 INC 89.53, AZM 269.25, TVD 6816.64
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-14980 INC 89.53, AZM 268.99, TVD 6817.42
-15000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr; tr bent;
-15000 WT 9.2, VIS 46
-15076 INC 89.66, AZM 270.62, TVD 6818.09
-15100 WT 9.2, VIS 46
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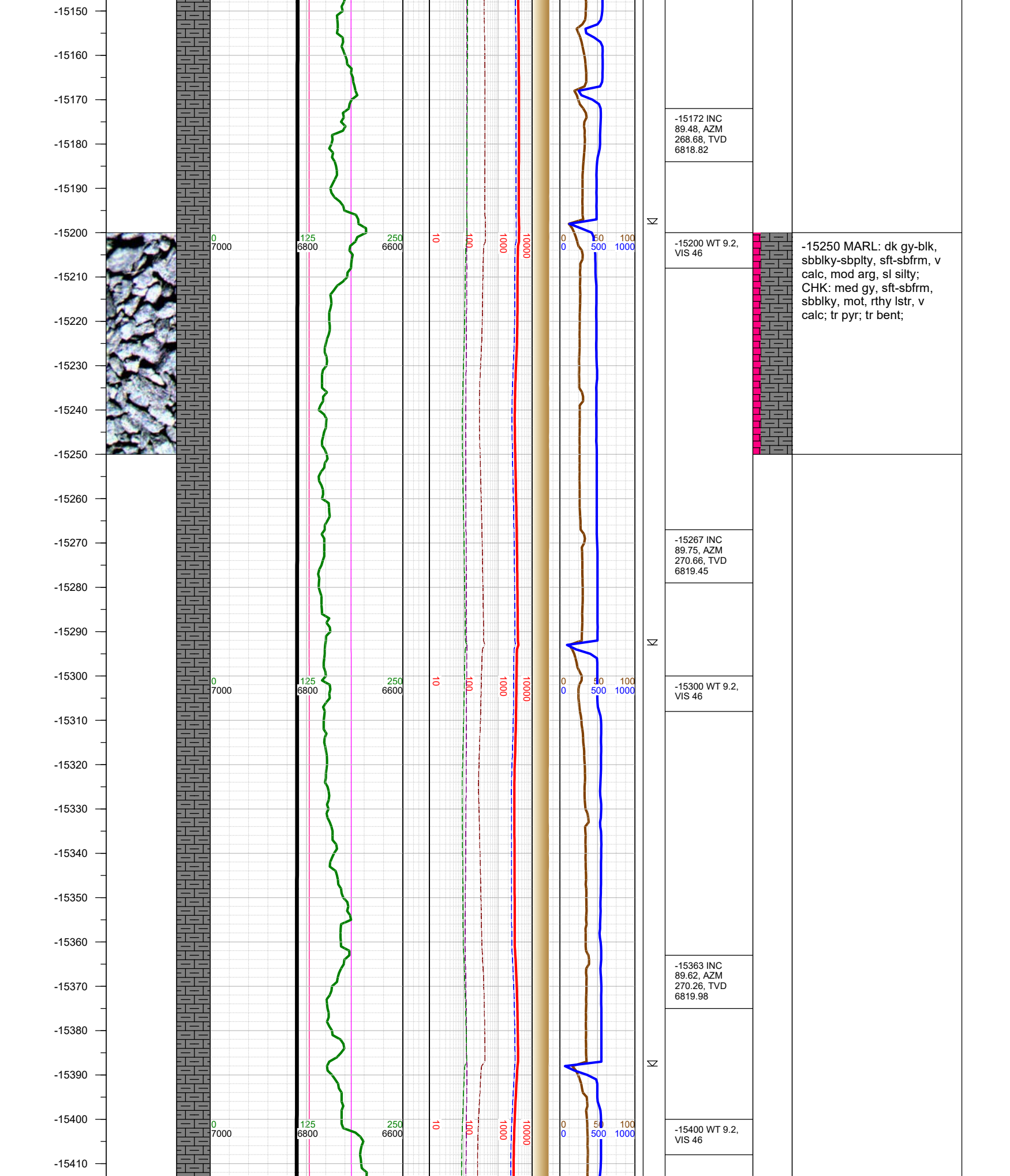
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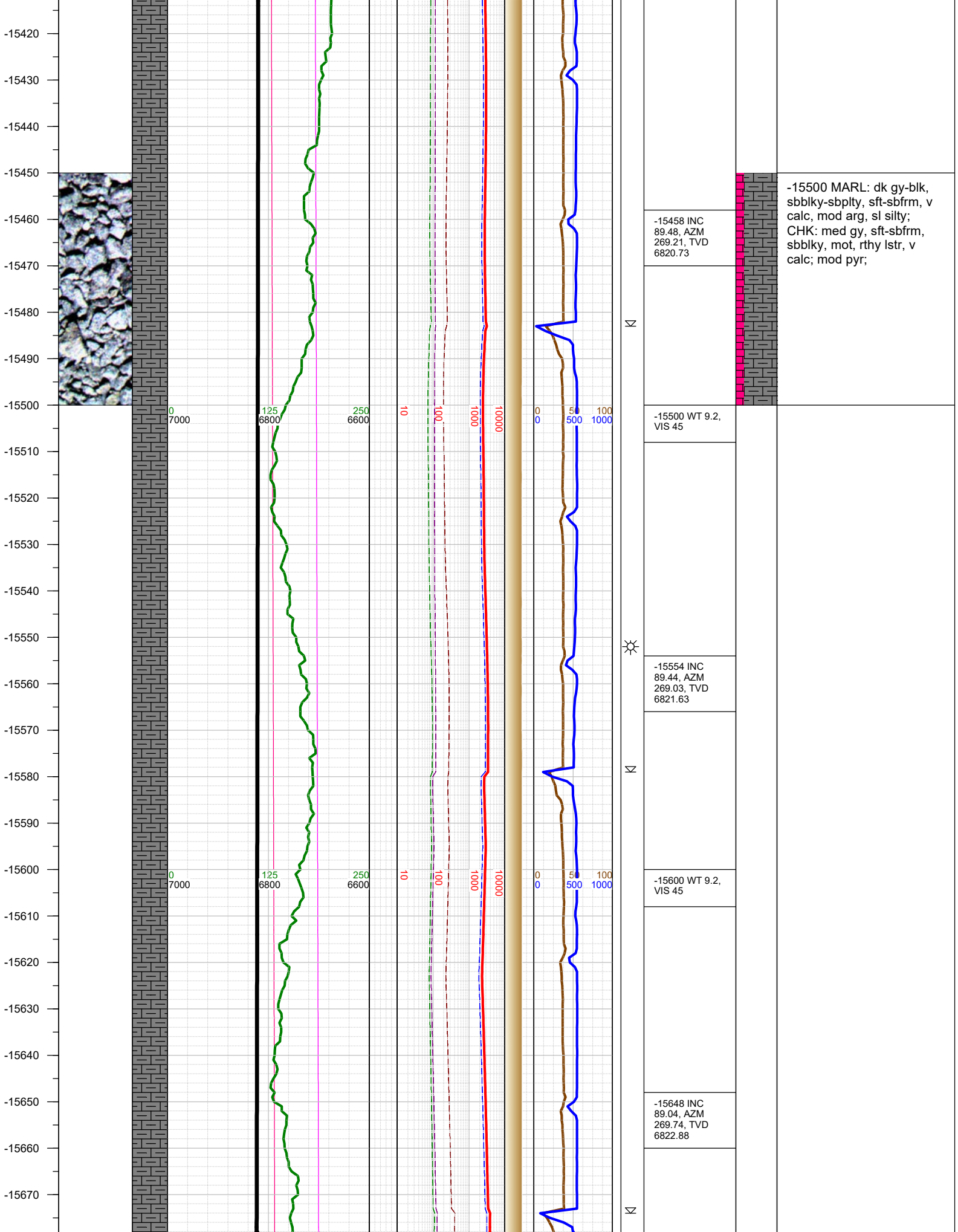
-15172 INC 89.48, AZM 268.68, TVD 6818.82
-15200 WT 9.2, VIS 46
-15250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr; tr bent;
-15267 INC 89.75, AZM 270.66, TVD 6819.45
-15300 WT 9.2, VIS 46
-15363 INC 89.62, AZM 270.26, TVD 6819.98
-15400 WT 9.2, VIS 46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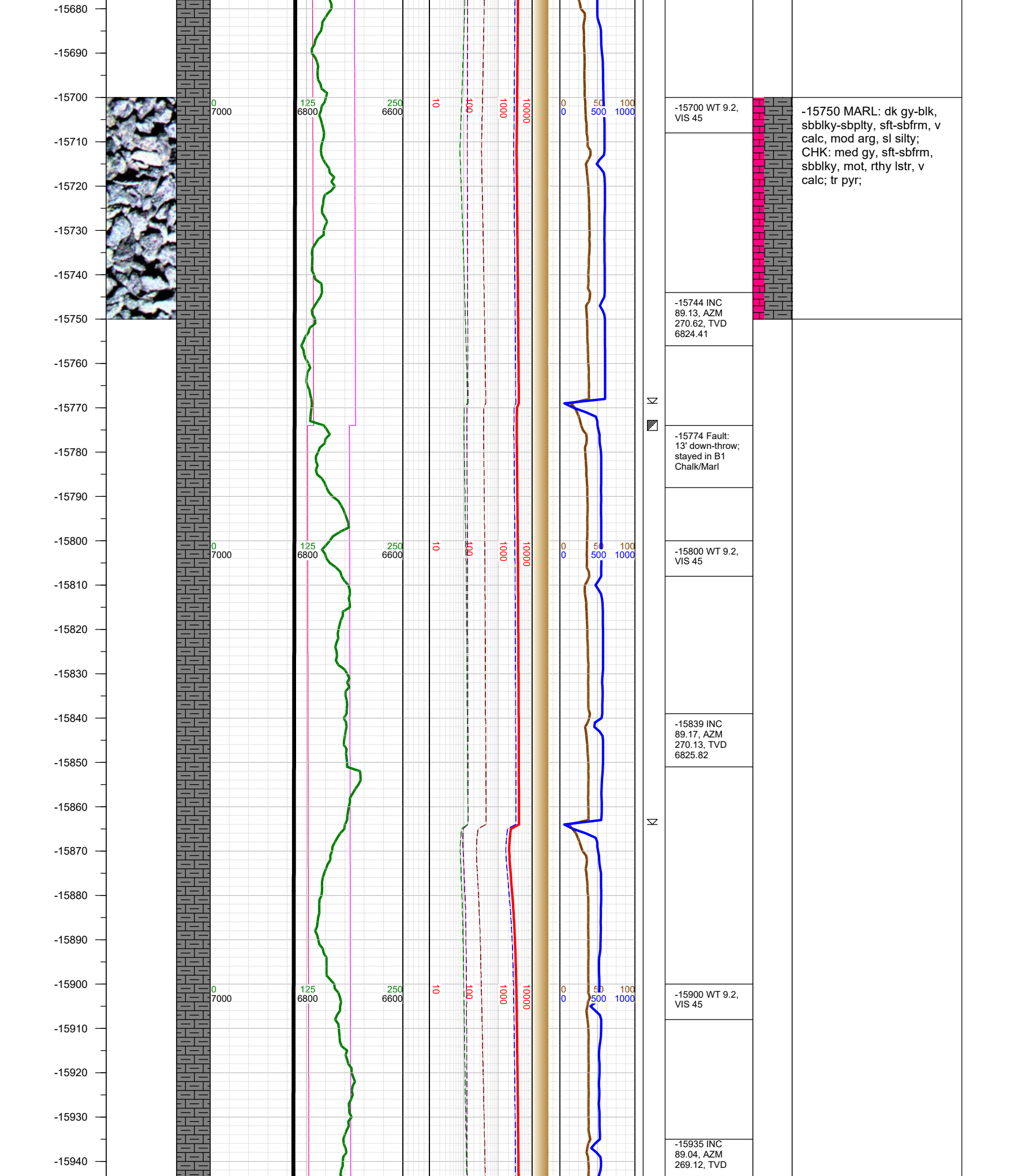
-15458 INC 89.48, AZM 269.21, TVD 6820.73
-15500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; mod pyr;
-15500 WT 9.2, VIS 45
-15554 INC 89.44, AZM 269.03, TVD 6821.63
-15600 WT 9.2, VIS 45
-15648 INC 89.04, AZM 269.74, TVD 6822.88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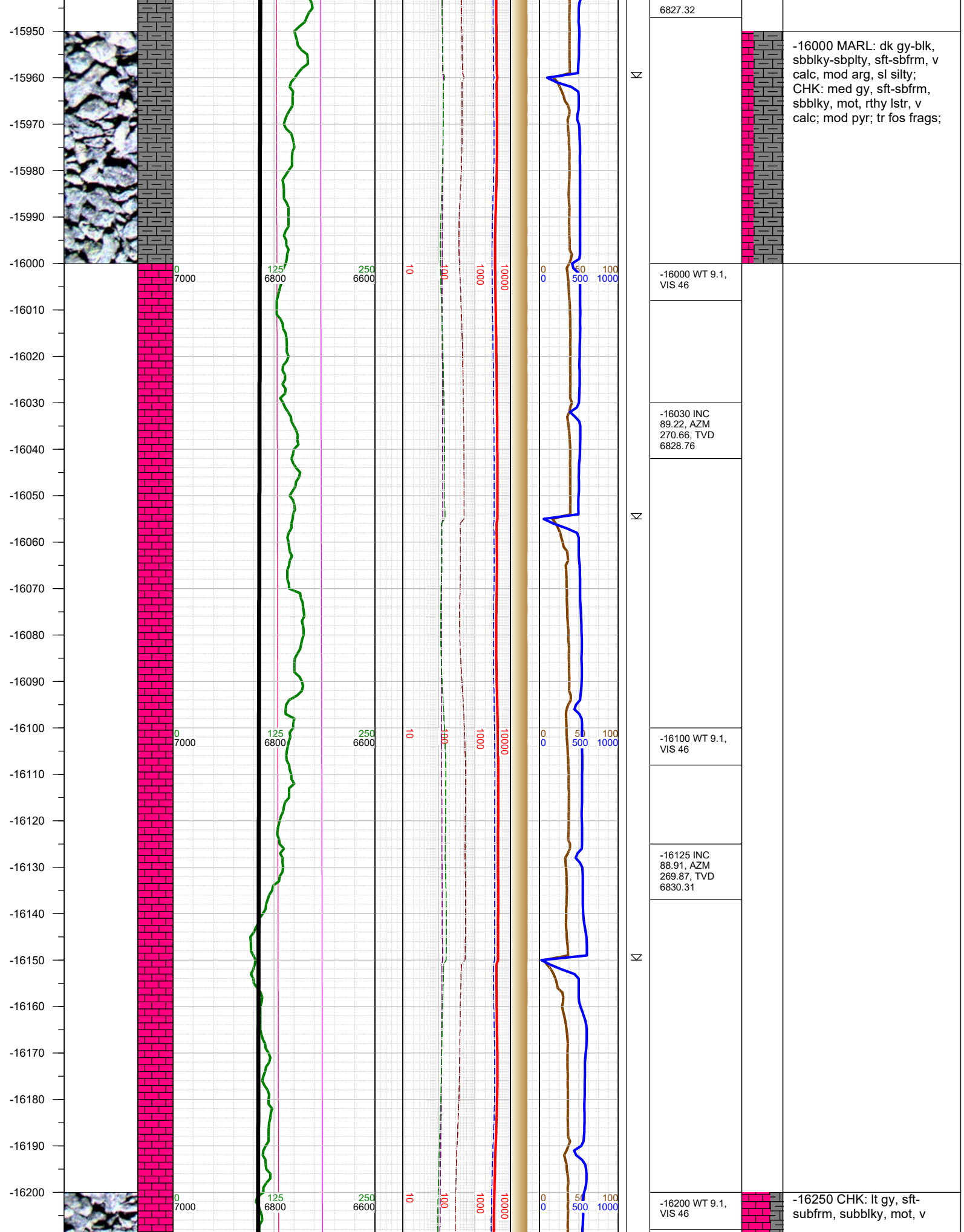
-15700 WT 9.2, VIS 45
-15744 INC 89.13, AZM 270.62, TVD 6824.41
-15774 Fault: 13' down-throw; stayed in B1 Chalk/Marl
-15800 WT 9.2, VIS 45
-15839 INC 89.17, AZM 270.13, TVD 6825.82
-15900 WT 9.2, VIS 45
-15935 INC 89.04, AZM 269.12, TVD
-15750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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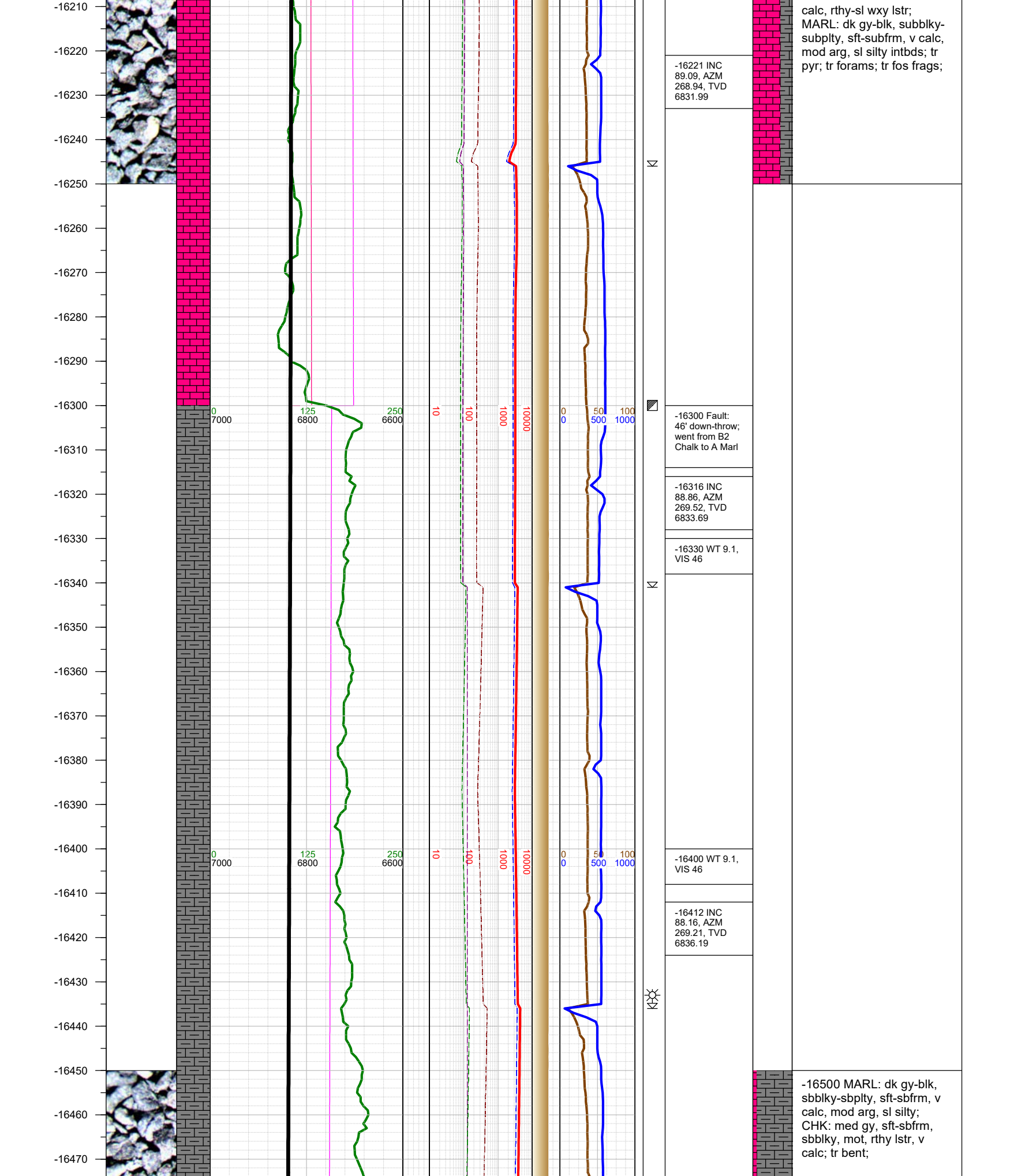
KI
6827.32
-16000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; mod pyr; tr fos frags;
-16000 WT 9.1, VIS 46
-16030 INC 89.22, AZM 270.66, TVD 6828.76
-16100 WT 9.1, VIS 46
-16125 INC 88.91, AZM 269.87, TVD 6830.31
-16200 WT 9.1, VIS 46
-16250 CHK: lt gy, sft-subfrm, subblky, mot, v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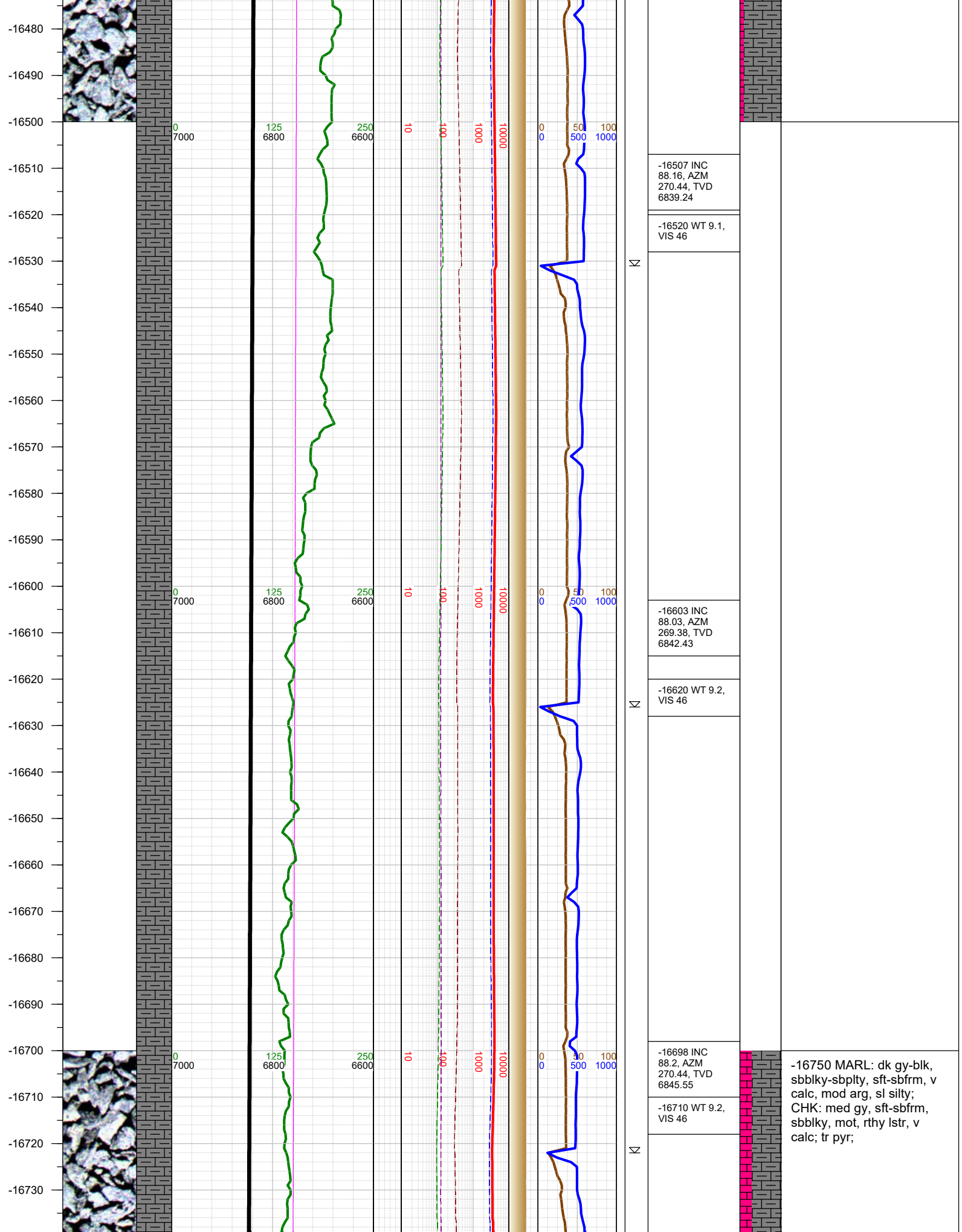
calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr; tr forams; tr fos frags;
-16221 INC 89.09, AZM 268.94, TVD 6831.99
-16300 Fault: 46' down-throw; went from B2 Chalk to A Marl
-16316 INC 88.86, AZM 269.52, TVD 6833.69
-16330 WT 9.1, VIS 46
-16400 WT 9.1, VIS 46
-16412 INC 88.16, AZM 269.21, TVD 6836.19
-16500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr bent;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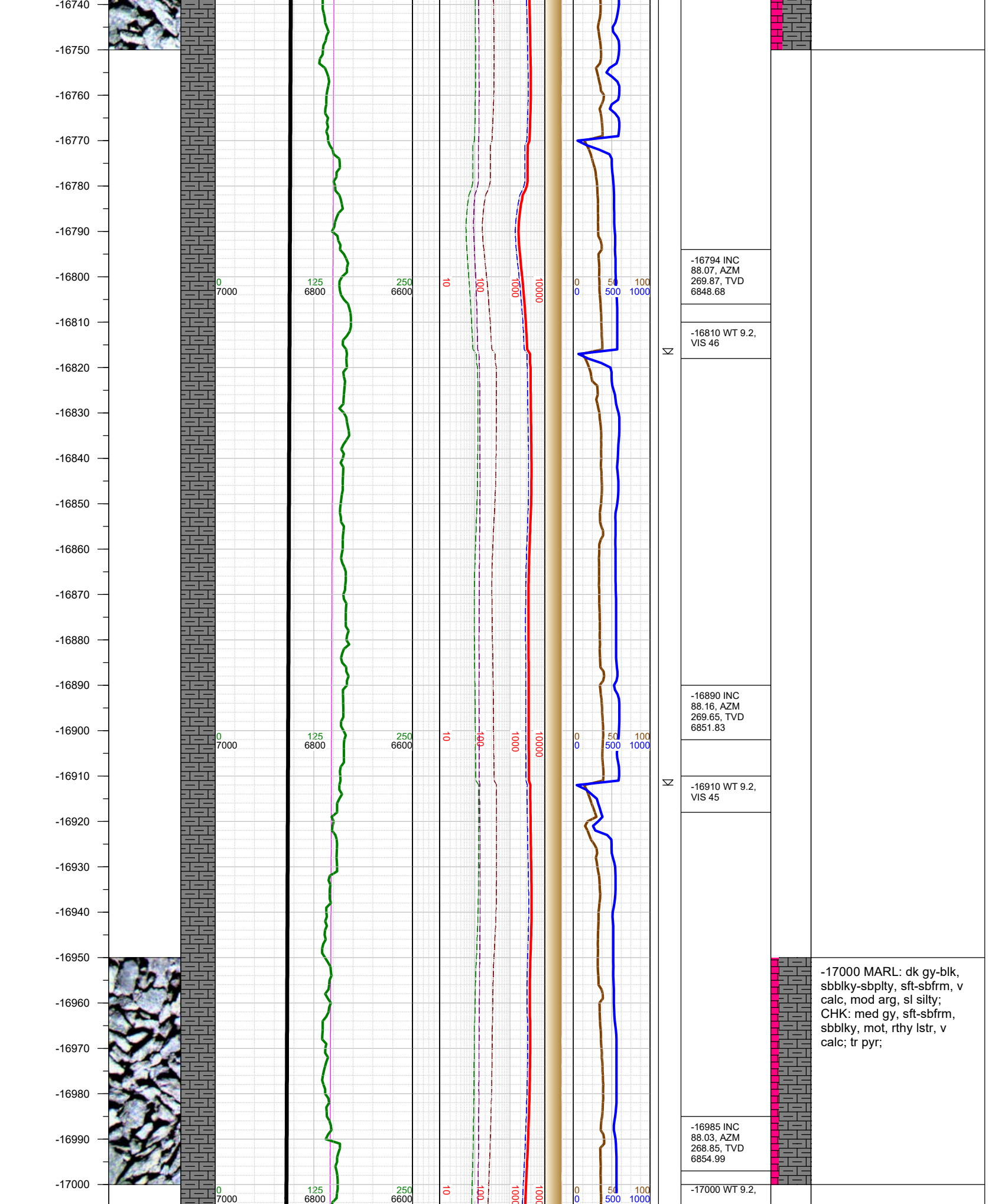
-16507 INC 88.16, AZM 270.44, TVD 6839.24
-16520 WT 9.1, VIS 46
-16603 INC 88.03, AZM 269.38, TVD 6842.43
-16620 WT 9.2, VIS 46
-16698 INC 88.2, AZM 270.44, TVD 6845.55
-16710 WT 9.2, VIS 46
-16750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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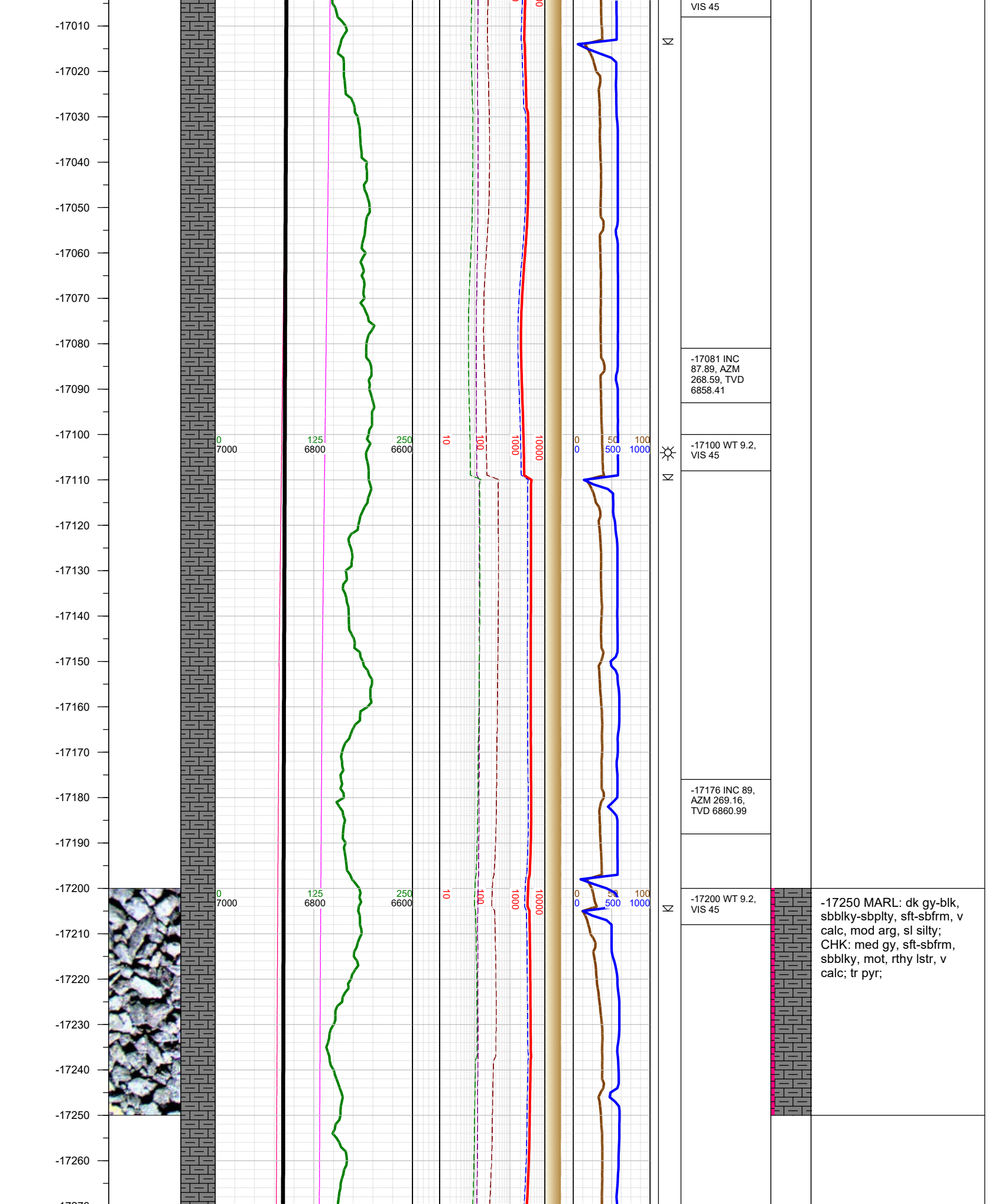
-16794 INC 88.07, AZM 269.87, TVD 6848.68
-16810 WT 9.2, VIS 46
-16890 INC 88.16, AZM 269.65, TVD 6851.83
-16910 WT 9.2, VIS 45
-16985 INC 88.03, AZM 268.85, TVD 6854.99
-17000 WT 9.2,
-17000 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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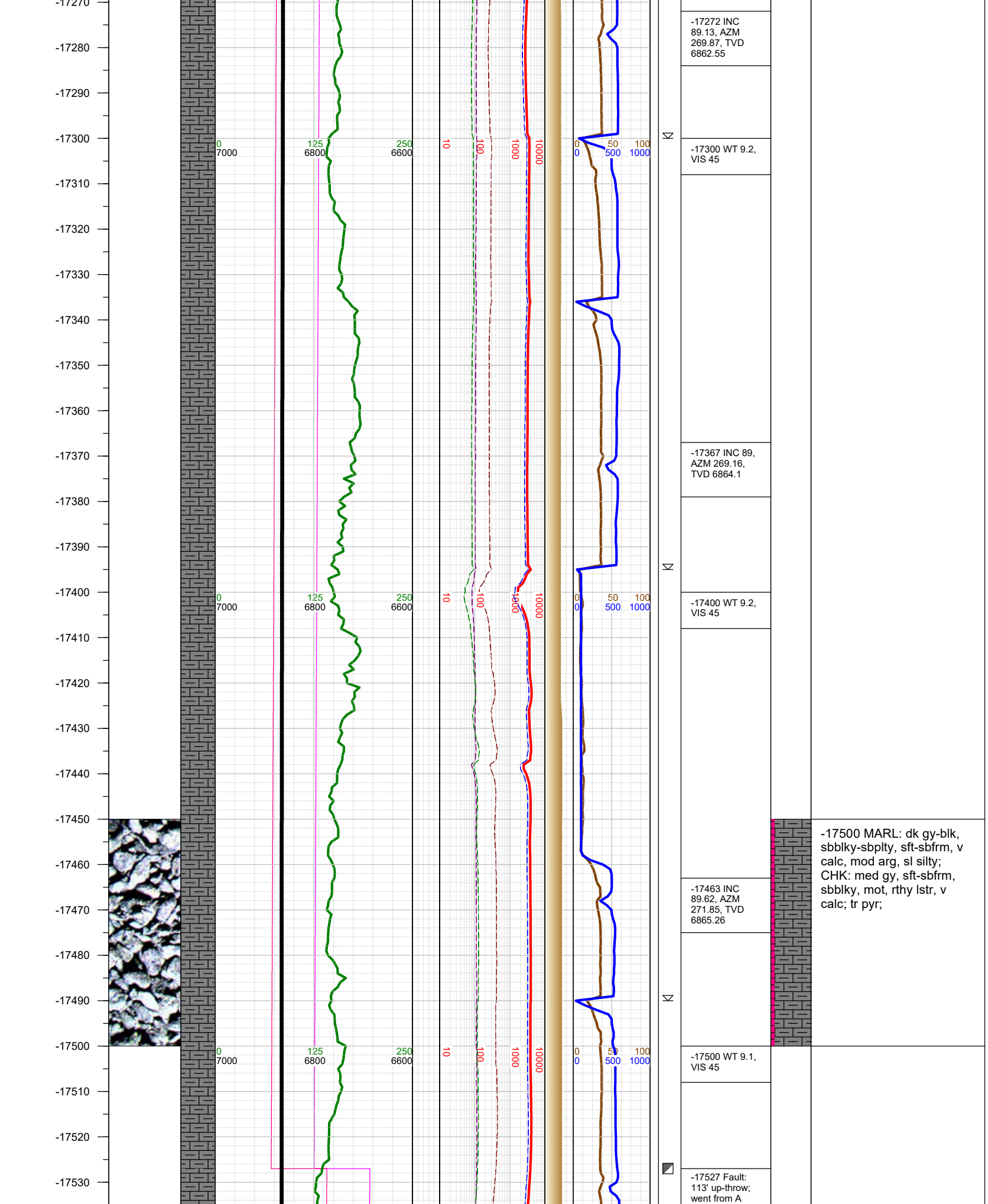
-17081 INC 87.89, AZM 268.59, TVD 6858.41
-17100 WT 9.2, VIS 45
-17176 INC 89, AZM 269.16, TVD 6860.99
-17200 WT 9.2, VIS 45
-17250 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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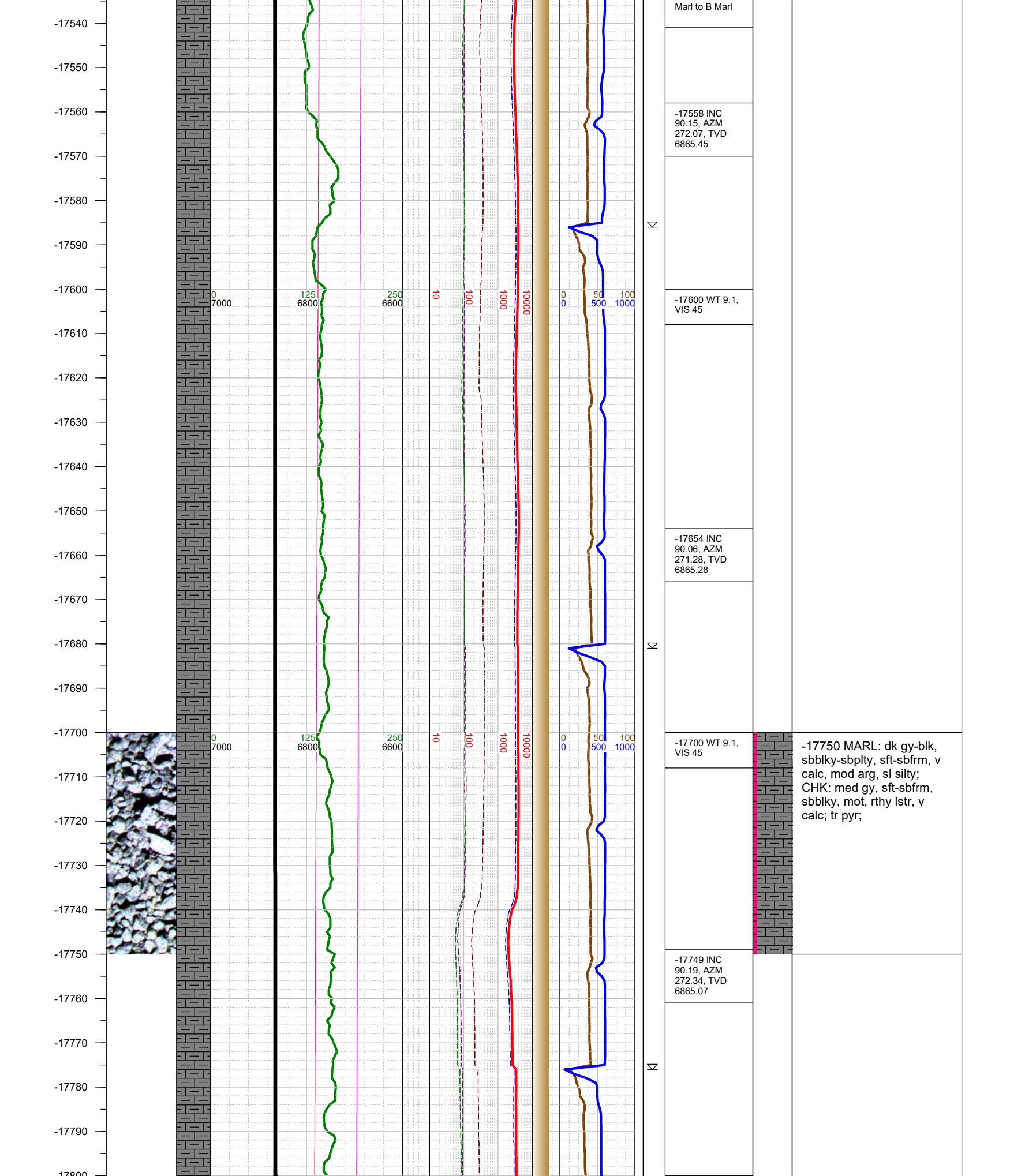
-17272 INC 89.13, AZM 269.87, TVD 6862.55
-17300 WT 9.2, VIS 45
-17367 INC 89, AZM 269.16, TVD 6864.1
-17400 WT 9.2, VIS 45
-17463 INC 89.62, AZM 271.85, TVD 6865.26
-17500 WT 9.1, VIS 45
-17527 Fault: 113' up-throw; went from A
-17500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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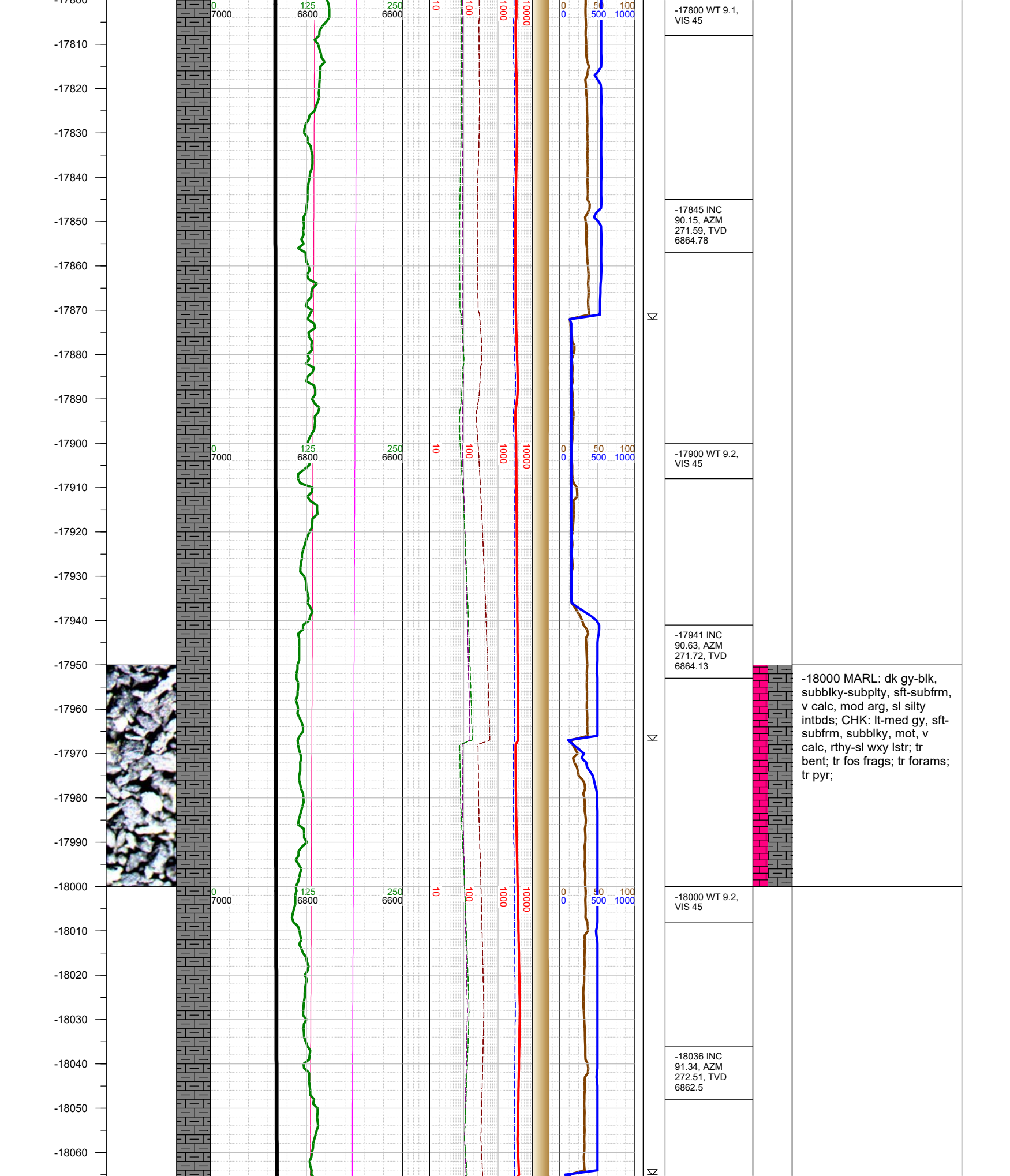
Marl to B Marl
-17558 INC 90.15, AZM 272.07, TVD 6865.45
-17600 WT 9.1, VIS 45
-17654 INC 90.06, AZM 271.28, TVD 6865.28
-17700 WT 9.1, VIS 45
-17749 INC 90.19, AZM 272.34, TVD 6865.07
-17750 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;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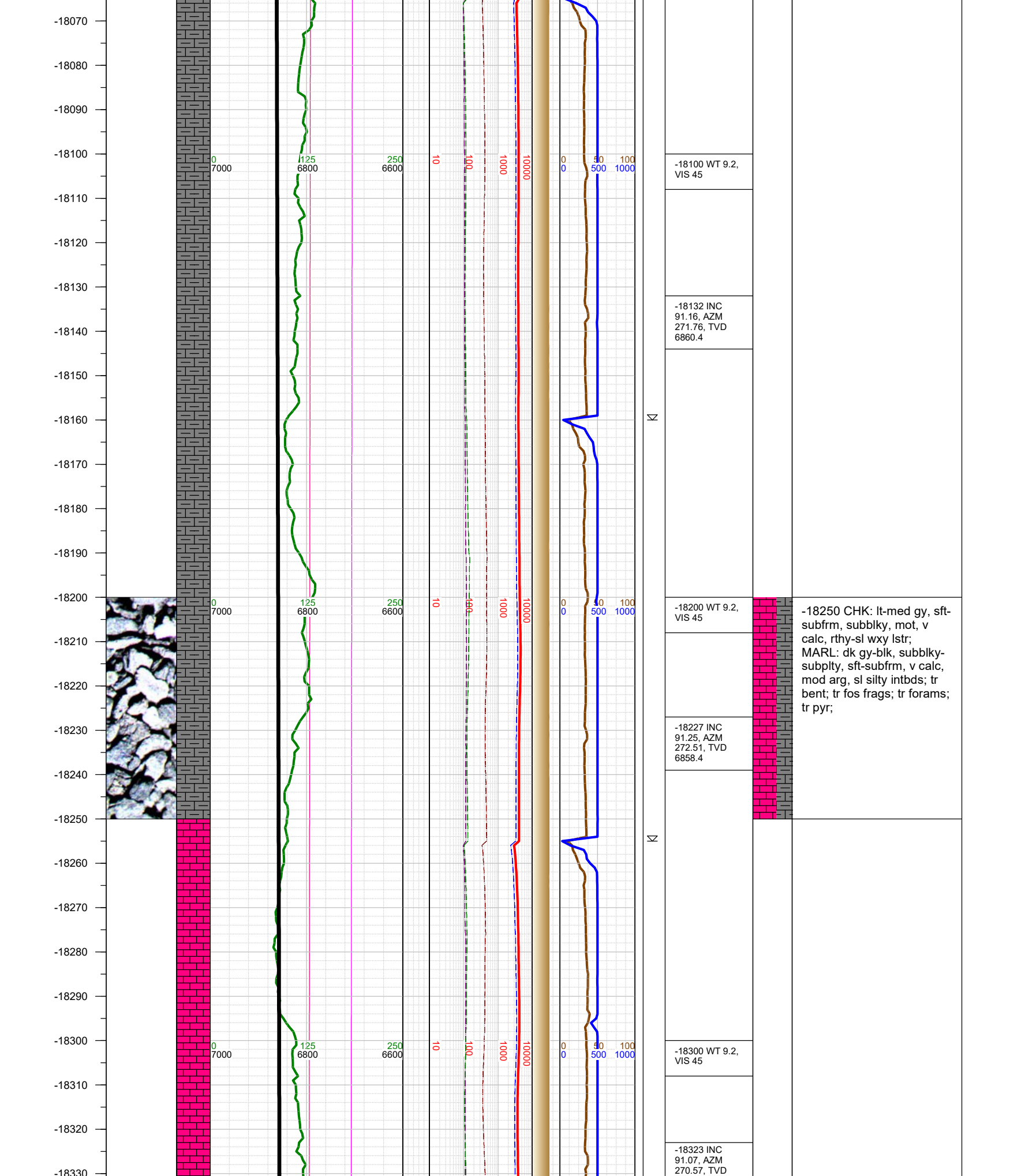
-17845 INC 90.15, AZM 271.59, TVD 6864.78
-17900 WT 9.2, VIS 45
-17941 INC 90.63, AZM 271.72, TVD 6864.13
-18000 MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr bent; tr fos frags; tr forams; tr pyr;
-18000 WT 9.2, VIS 45
-18036 INC 91.34, AZM 272.51, TVD 6862.5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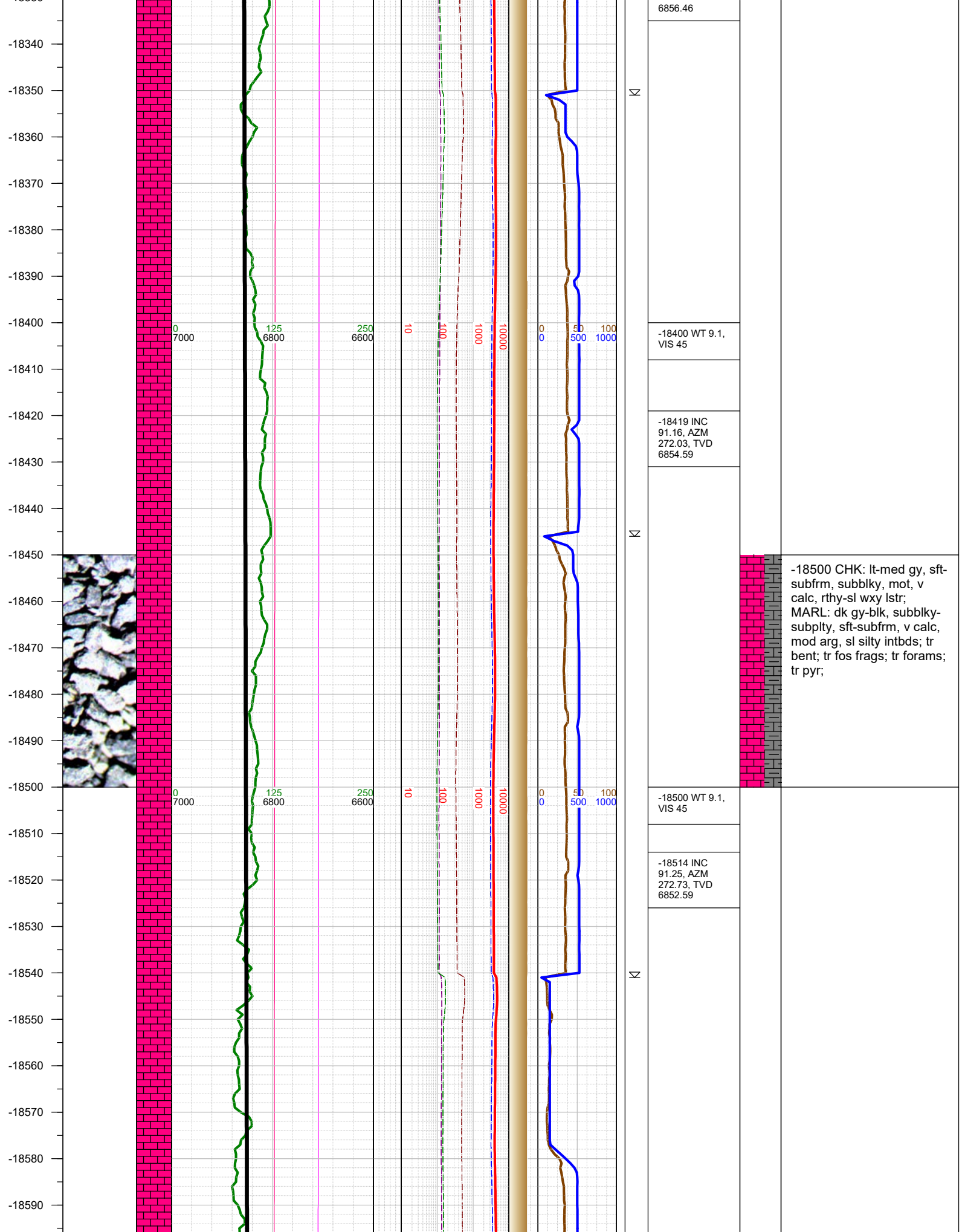
-18100 WT 9.2, VIS 45
-18132 INC 91.16, AZM 271.76, TVD 6860.4
-18200 WT 9.2, VIS 45
-18227 INC 91.25, AZM 272.51, TVD 6858.4
-18250 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent; tr fos frags; tr forams; tr pyr;
-18300 WT 9.2, VIS 45
-18323 INC 91.07, AZM 270.57, TVD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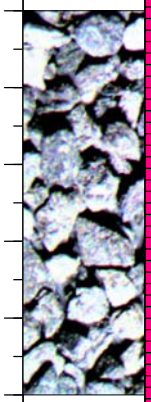
-18400 WT 9.1, VIS 45
-18419 INC 91.16, AZM 272.03, TVD 6854.59
-18500 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent; tr fos frags; tr forams; tr pyr;
-18500 WT 9.1, VIS 45
-18514 INC 91.25, AZM 272.73, TVD 6852.59



-18600 WT 9.1, VIS 45

-18610 INC 91.25, AZM 270.93, TVD 6850.5

-18705 INC 91.6, AZM 270.62, TVD 6848.14

-18720 WT 9.1, VIS 45

-18750 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent; tr fos frags; tr forams; tr pyr;

-18801 INC 91.6, AZM 271.23, TVD 6845.46

-18820 WT 9.1, VIS 45

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-18896 INC 91.74, AZM 272.42, TVD 6842.69

-18910 WT 9.1, VIS 45

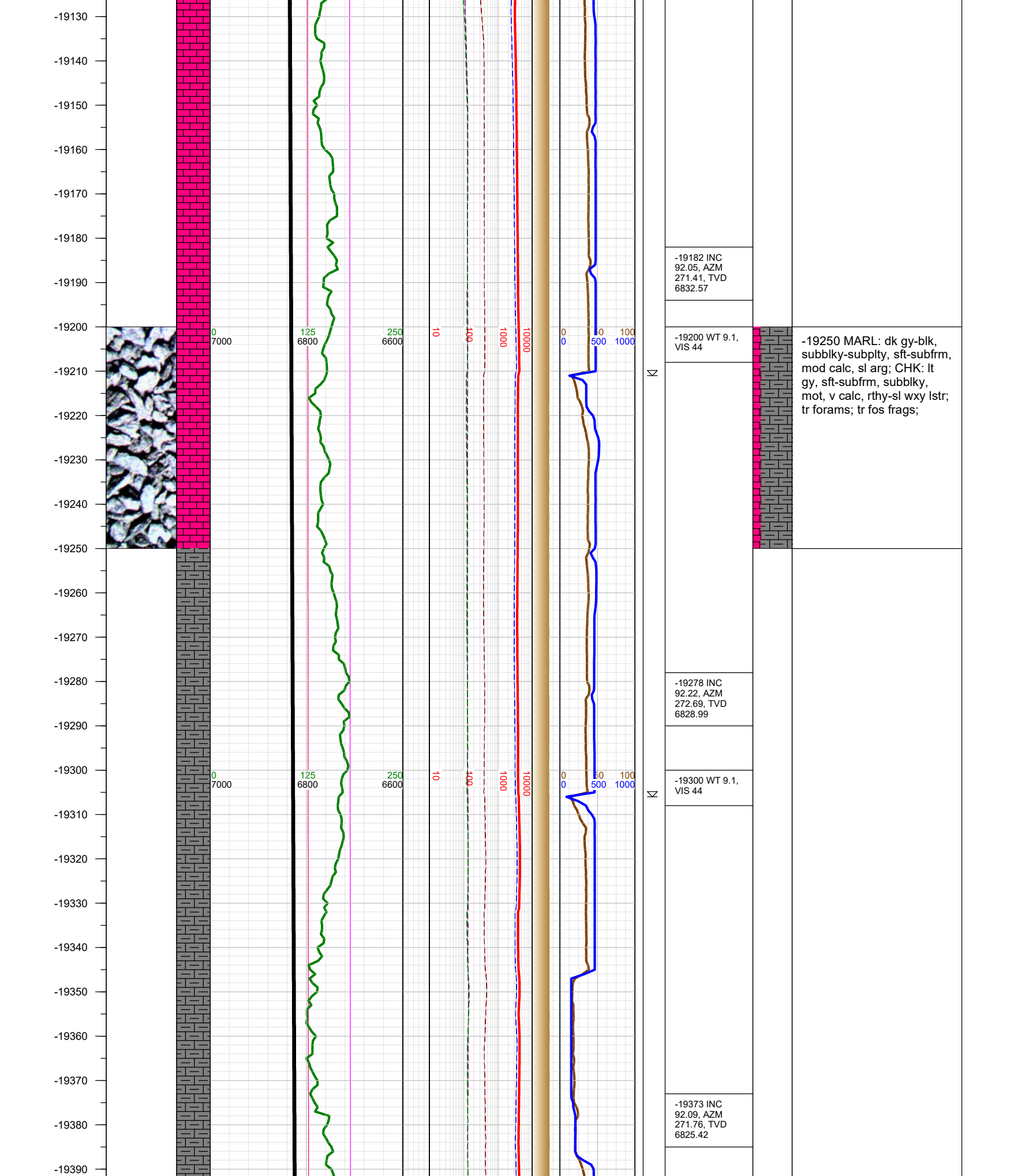
-19000 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr bent; tr fos frags; tr forams; tr pyr;

-18992 INC 92.05, AZM 272.38, TVD 6839.51

-19010 WT 9.1, VIS 45

-19087 INC 92.14, AZM 271.9, TVD 6836.04

-19100 WT 9.1, VIS 44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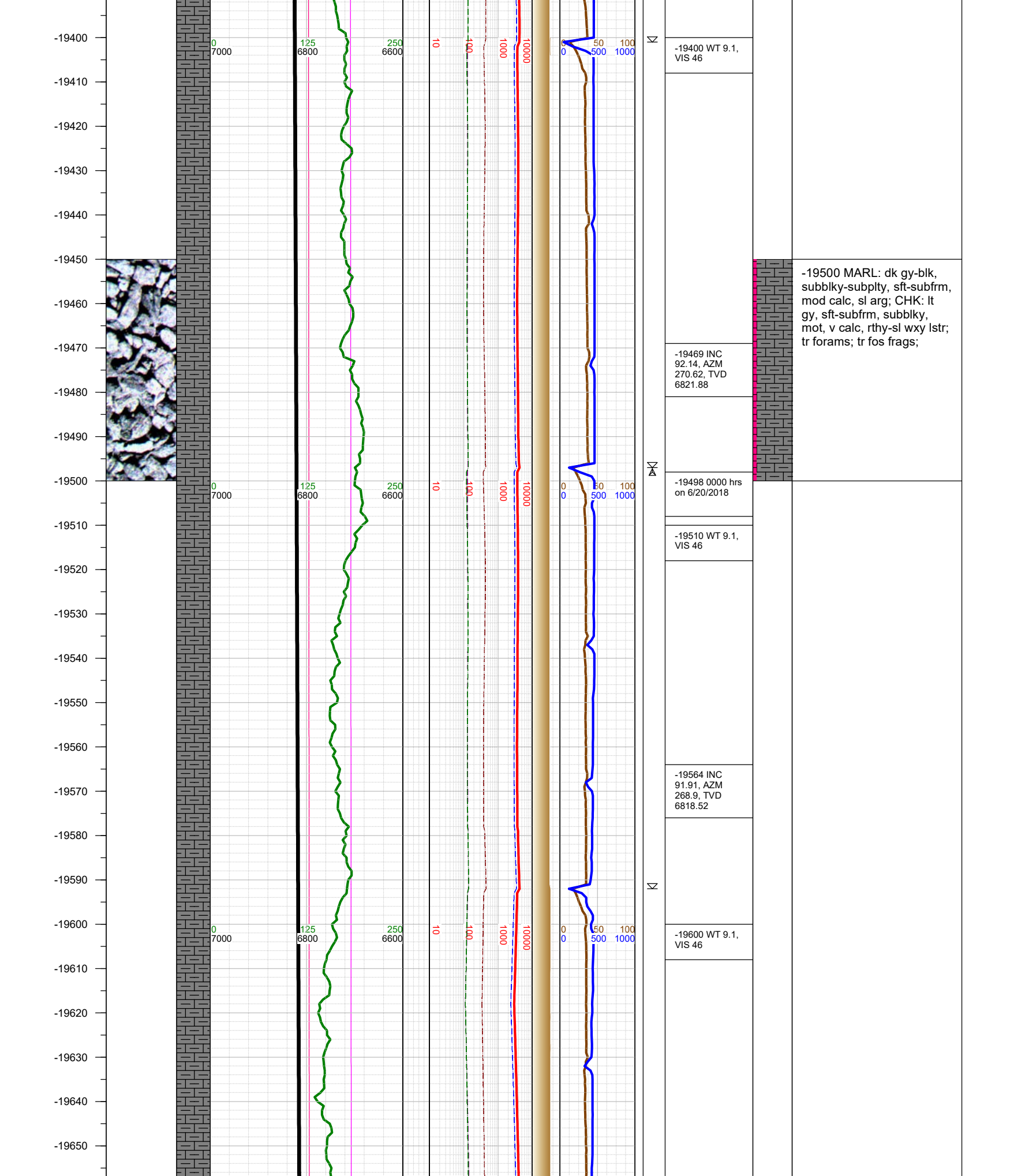
KI
-19182 INC 92.05, AZM 271.41, TVD 6832.57
-19200 WT 9.1, VIS 44
-19250 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr forams; tr fos frags;
-19278 INC 92.22, AZM 272.69, TVD 6828.99
-19300 WT 9.1, VIS 44
-19373 INC 92.09, AZM 271.76, TVD 6825.42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10000
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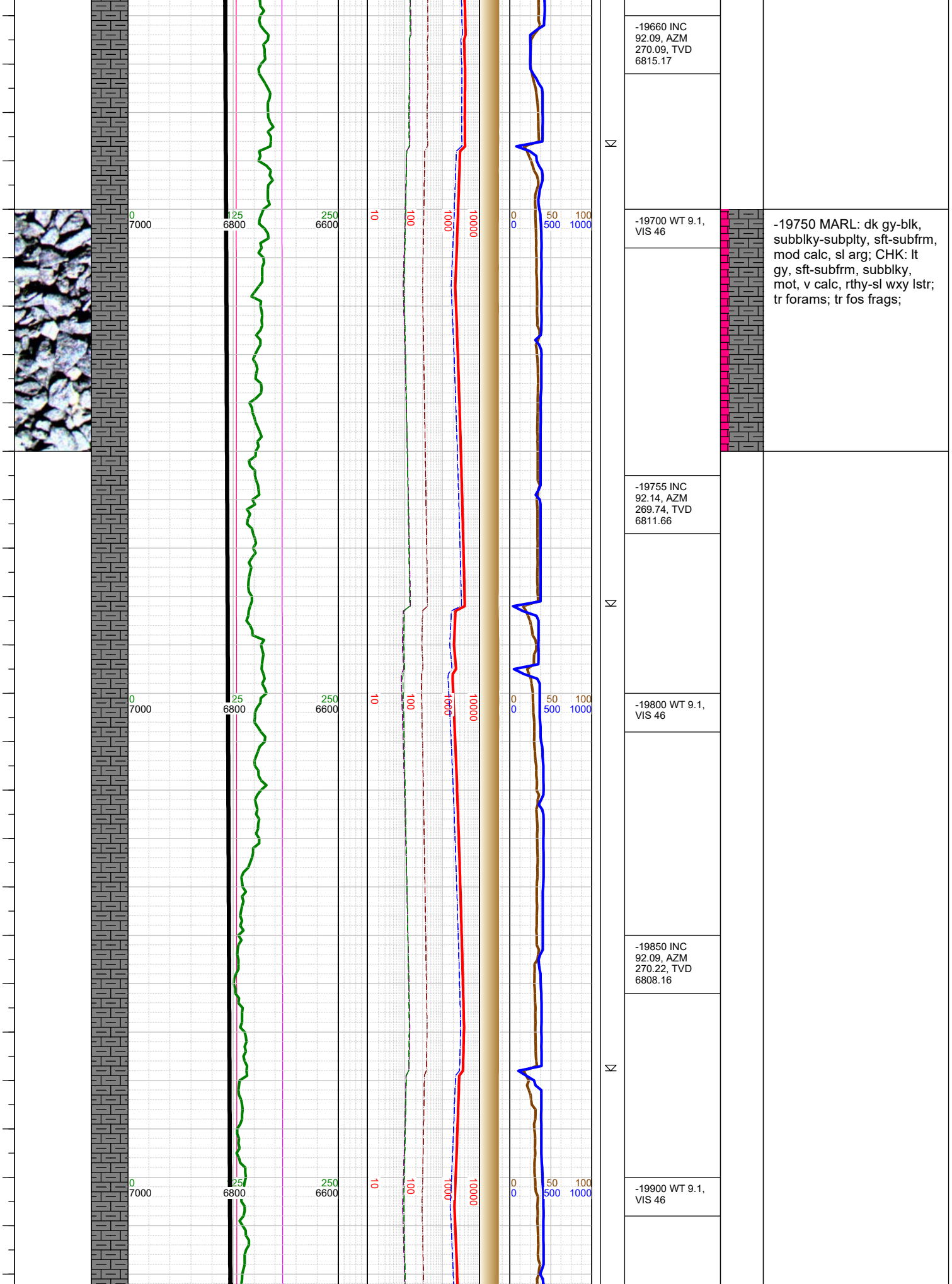
500
1000
-19400 WT 9.1, VIS 46
-19469 INC 92.14, AZM 270.62, TVD 6821.88
-19498 0000 hrs on 6/20/2018
-19500 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr forams; tr fos frags;
-19510 WT 9.1, VIS 46
-19564 INC 91.91, AZM 268.9, TVD 6818.52
-19600 WT 9.1, VIS 46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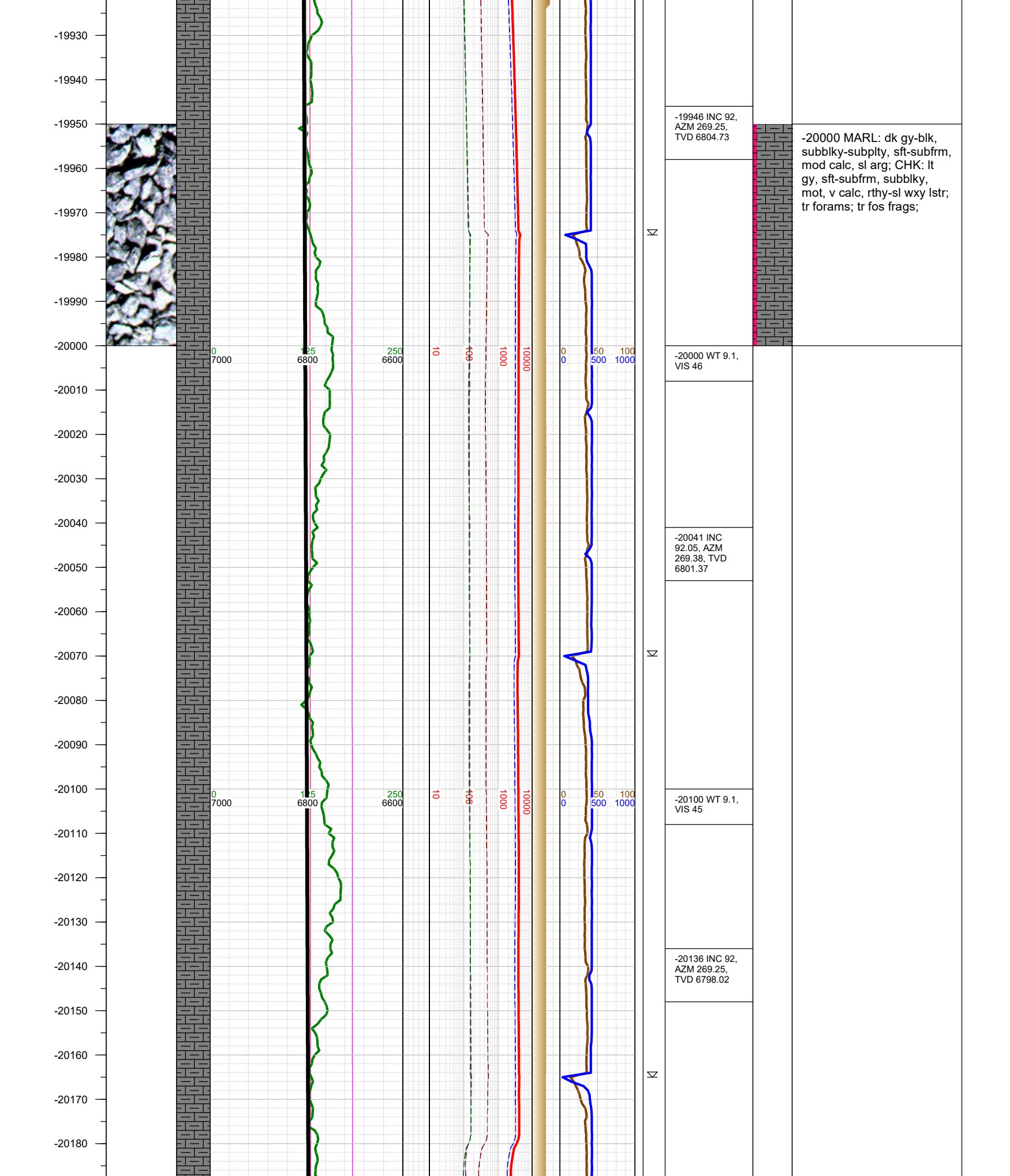
-19660 INC 92.09, AZM 270.09, TVD 6815.17
-19700 WT 9.1, VIS 46
-19750 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr forams; tr fos frags;
-19755 INC 92.14, AZM 269.74, TVD 6811.66
-19800 WT 9.1, VIS 46
-19850 INC 92.09, AZM 270.22, TVD 6808.16
-19900 WT 9.1, VIS 46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0
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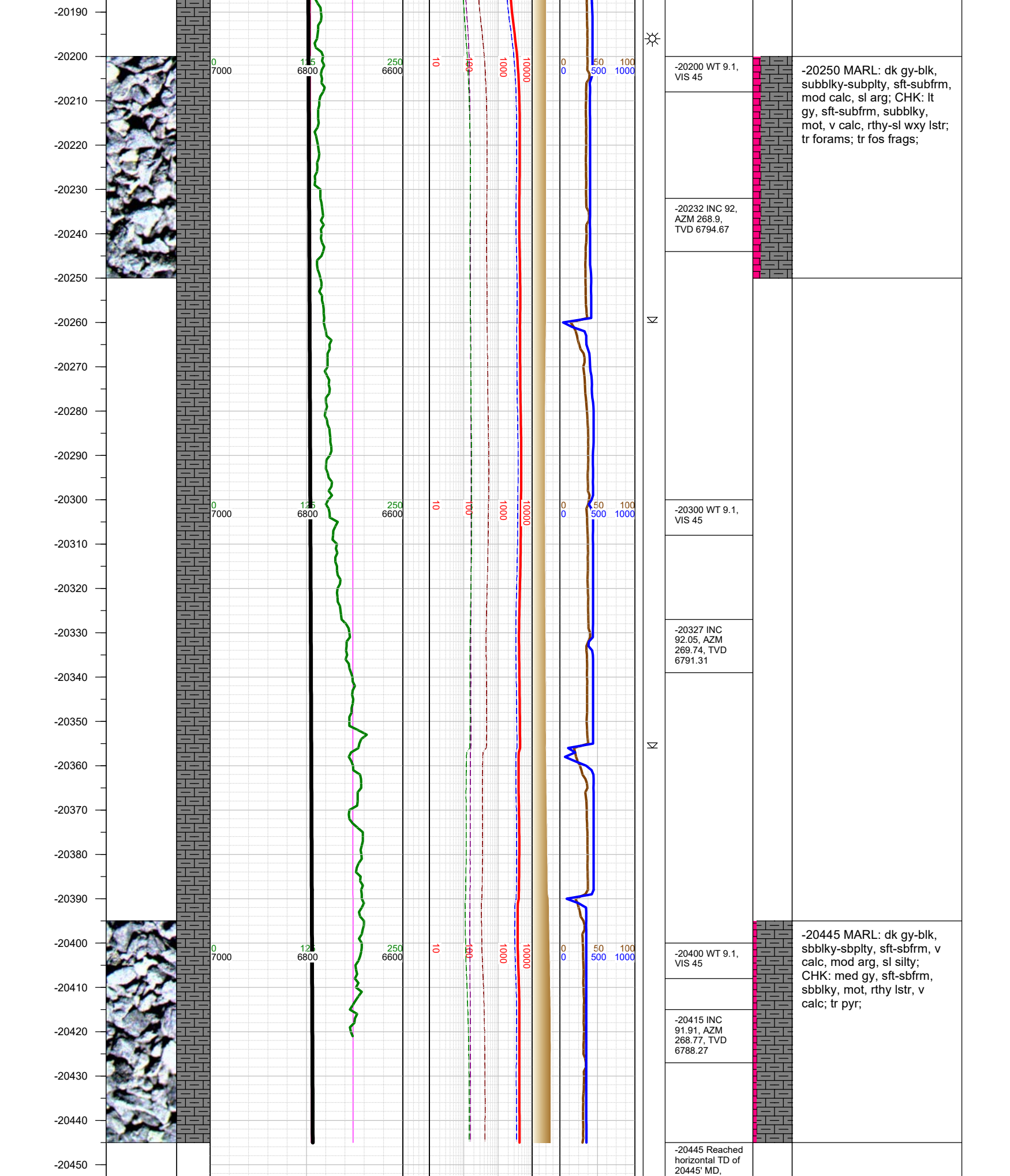
KI
-19946 INC 92, AZM 269.25, TVD 6804.73
-20000 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr forams; tr fos frags;
-20000 WT 9.1, VIS 46
-20041 INC 92.05, AZM 269.38, TVD 6801.37
-20100 WT 9.1, VIS 45
-20136 INC 92, AZM 269.25, TVD 6798.02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-20440
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10000
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500
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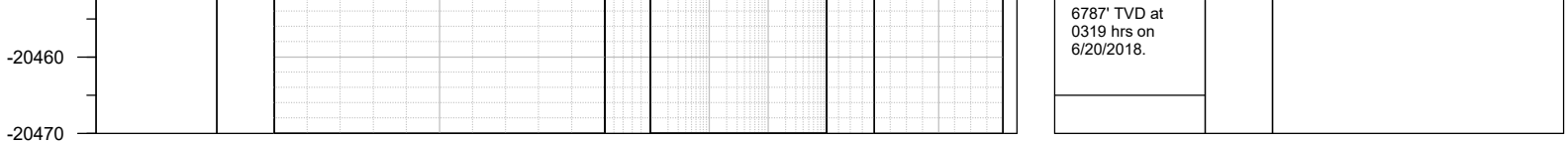
-20200 WT 9.1, VIS 45
-20232 INC 92, AZM 268.9, TVD 6794.67
-20250 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr forams; tr fos frags;
-20300 WT 9.1, VIS 45
-20327 INC 92.05, AZM 269.74, TVD 6791.31
-20400 WT 9.1, VIS 45
-20415 INC 91.91, AZM 268.77, TVD 6788.27
-20445 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr, v calc; tr pyr;
-20445 Reached horizontal TD of 20445' MD,



TOTAL DEPTH = 20445'

Thank you for using Earth Science Agency