OPERATOR: **Extraction Oil & Gas**
WELL NAME: **CS Longmeadow 2-1-13**

FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 341
API #: 05-123-42475

LAT/LONG: 40.43837, -104.72242
SURFACE HOLE: SWSE S36-T6N-R66W, 338' FSL, 1824' FEL
BOTTOM HOLE: S13-T5N-R66W, xxxx' FXL, xxxx' FXL

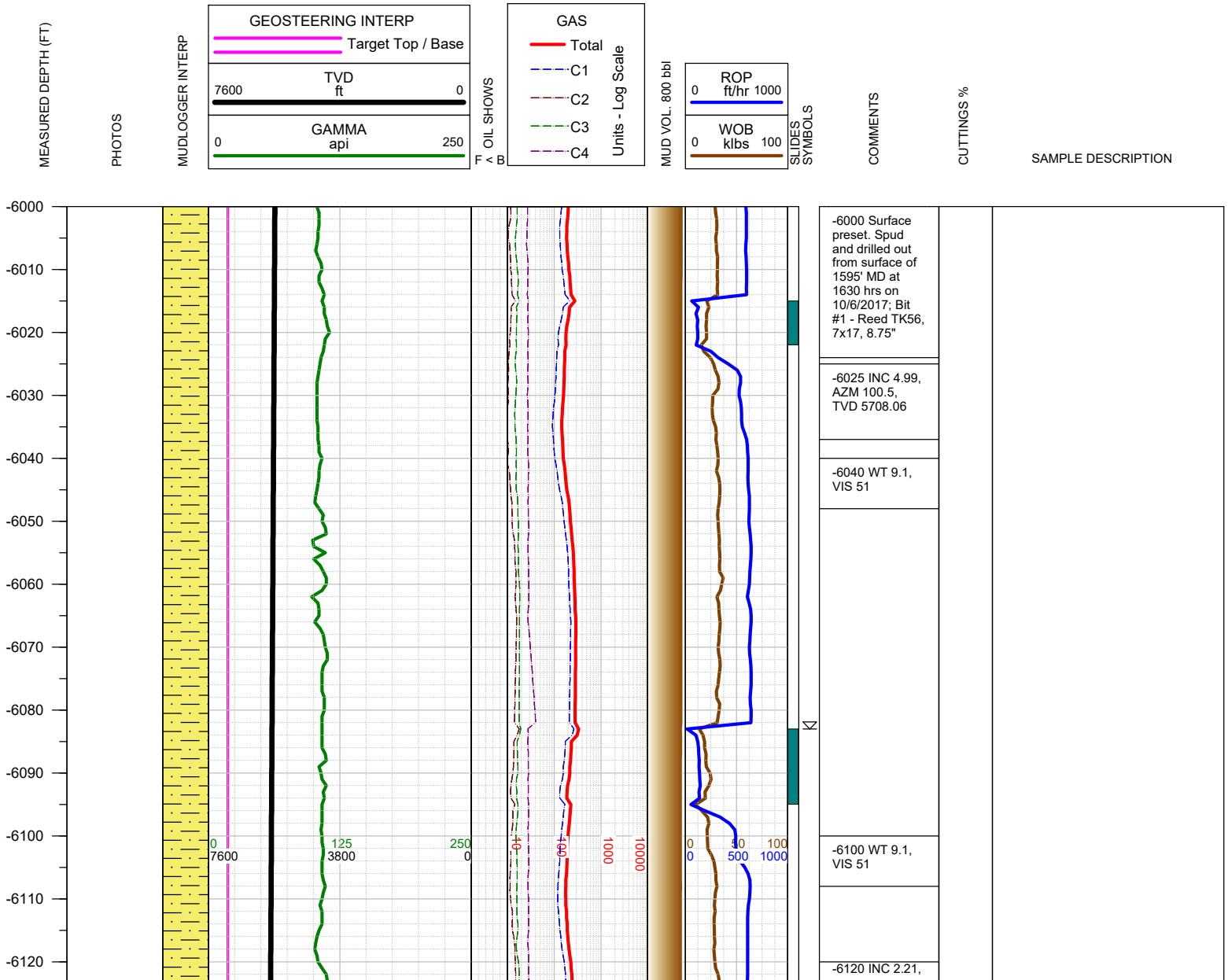
Earth Science Agency, LLC

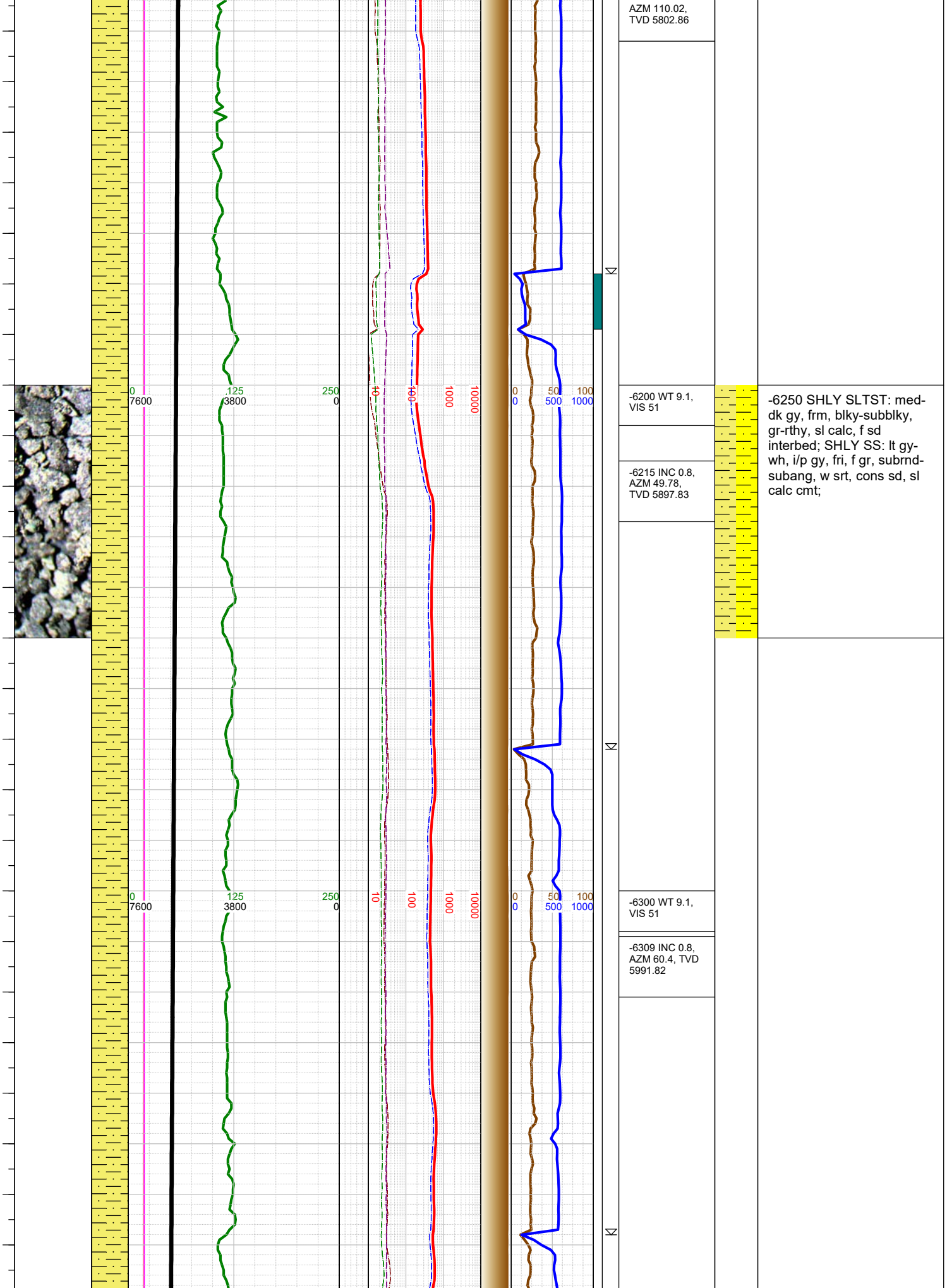
COUNTY:	Weld
STATE:	Colorado
GROUND ELEVATION:	4663'
KELLY BUSHING:	4688'
DRILLING FLUID:	OBM
TVD VS. MD:	6965' / 20550'
SPUD DATE:	October 6, 2017
TD DATE:	October 10, 2017
DEPTHS LOGGED:	6000' - 20550'
DATES LOGGED:	October 6, 2017 - October 10, 2017
GEOLOGISTS:	Blake Eatherton, Dominic Pitre
SCALE:	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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AZM 110.02, TVD 5802.86
-6200 WT 9.1, VIS 51
-6215 INC 0.8, AZM 49.78, TVD 5897.83
-6300 WT 9.1, VIS 51
-6309 INC 0.8, AZM 60.4, TVD 5991.82
-6250 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc, f sd interbed; SHLY SS: lt gy-wh, i/p gy, fri, f gr, subrnd-subang, w srt, cons sd, sl calc cmt;
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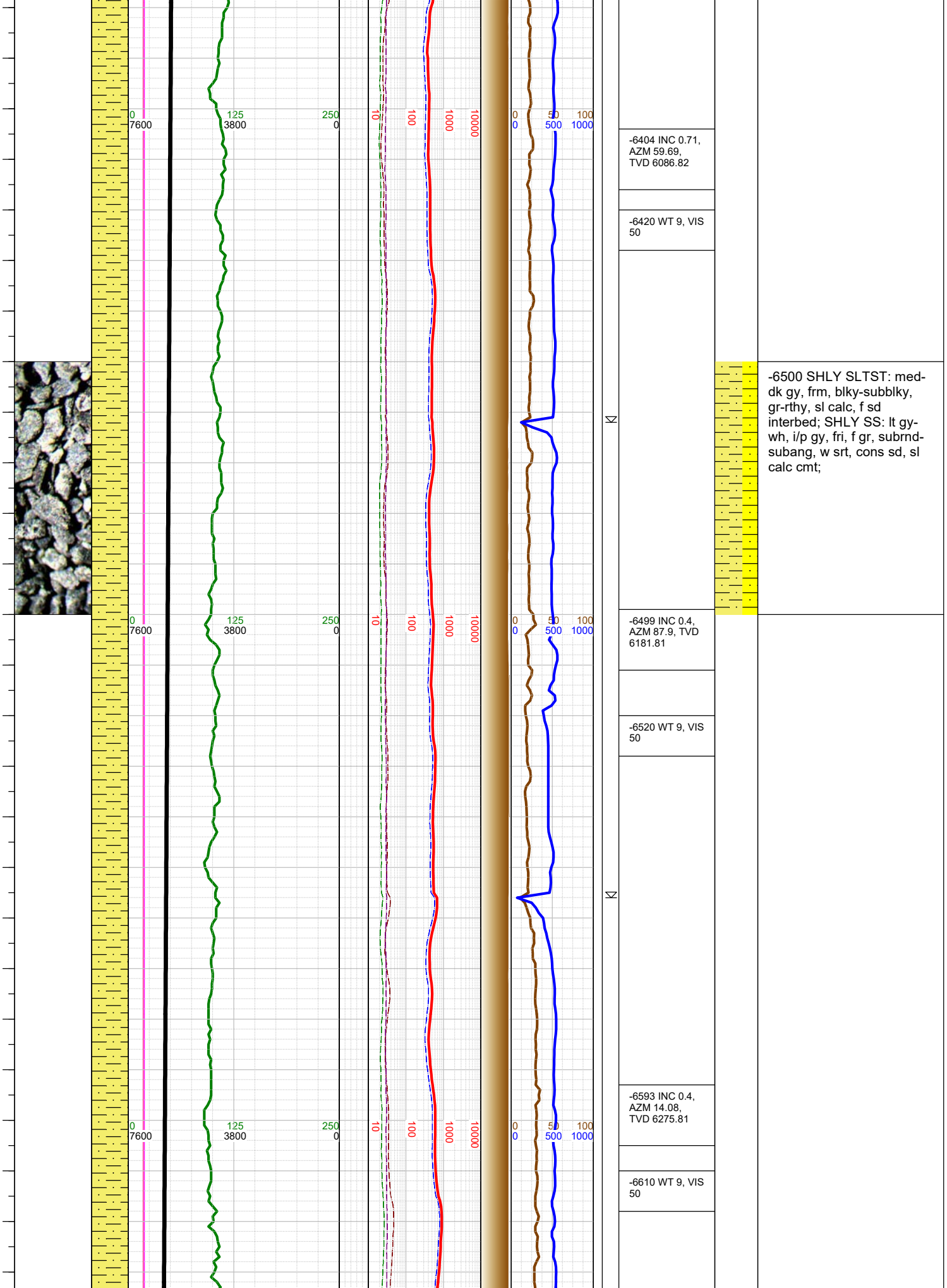
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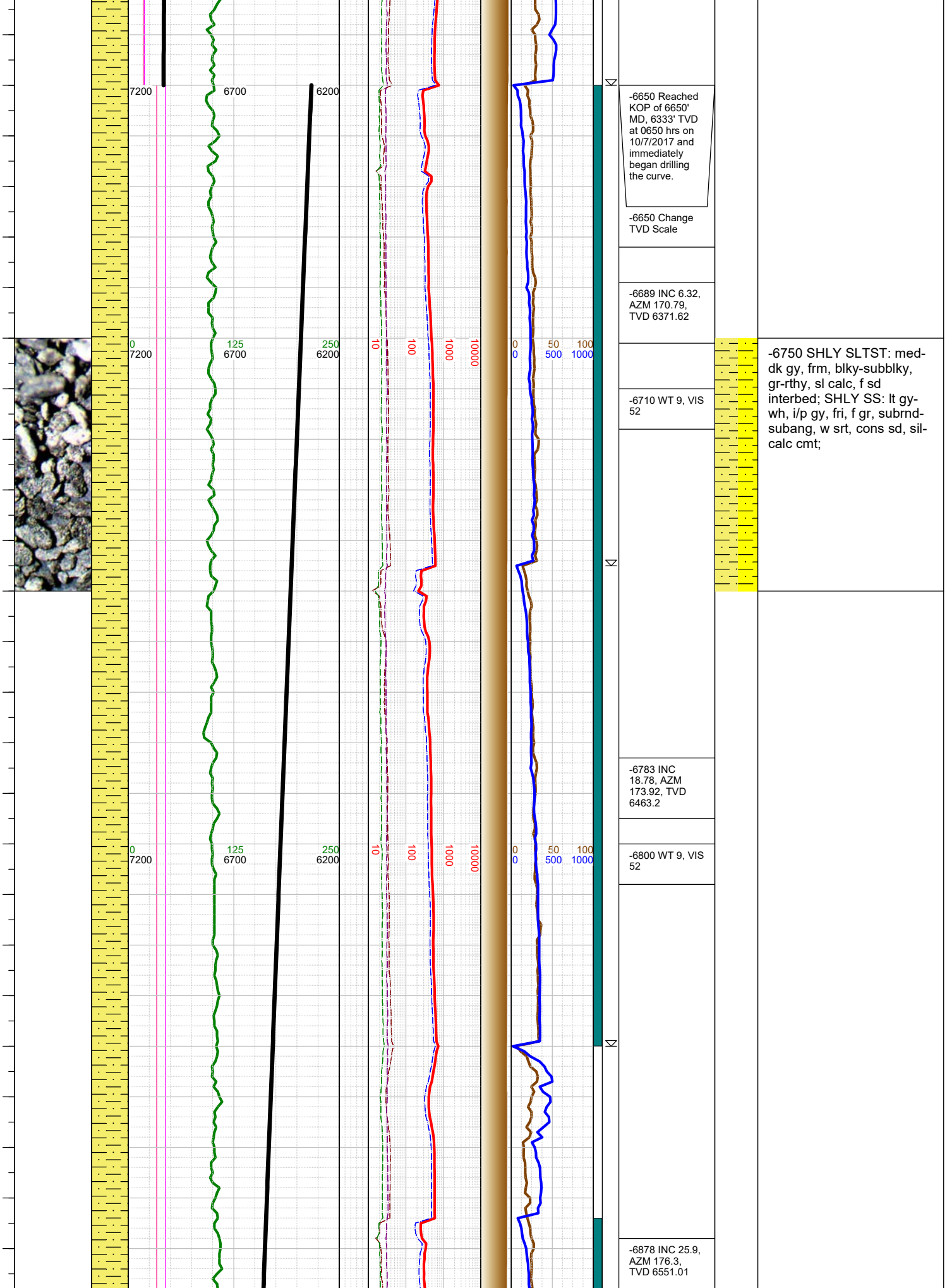
-6404 INC 0.71, AZM 59.69, TVD 6086.82
-6420 WT 9, VIS 50
-6500 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc, f sd interbed; SHLY SS: lt gy-wh, i/p gy, fri, f gr, subrnd-subang, w srt, cons sd, sl calc cmt;
-6499 INC 0.4, AZM 87.9, TVD 6181.81
-6520 WT 9, VIS 50
-6593 INC 0.4, AZM 14.08, TVD 6275.81
-6610 WT 9, VIS 50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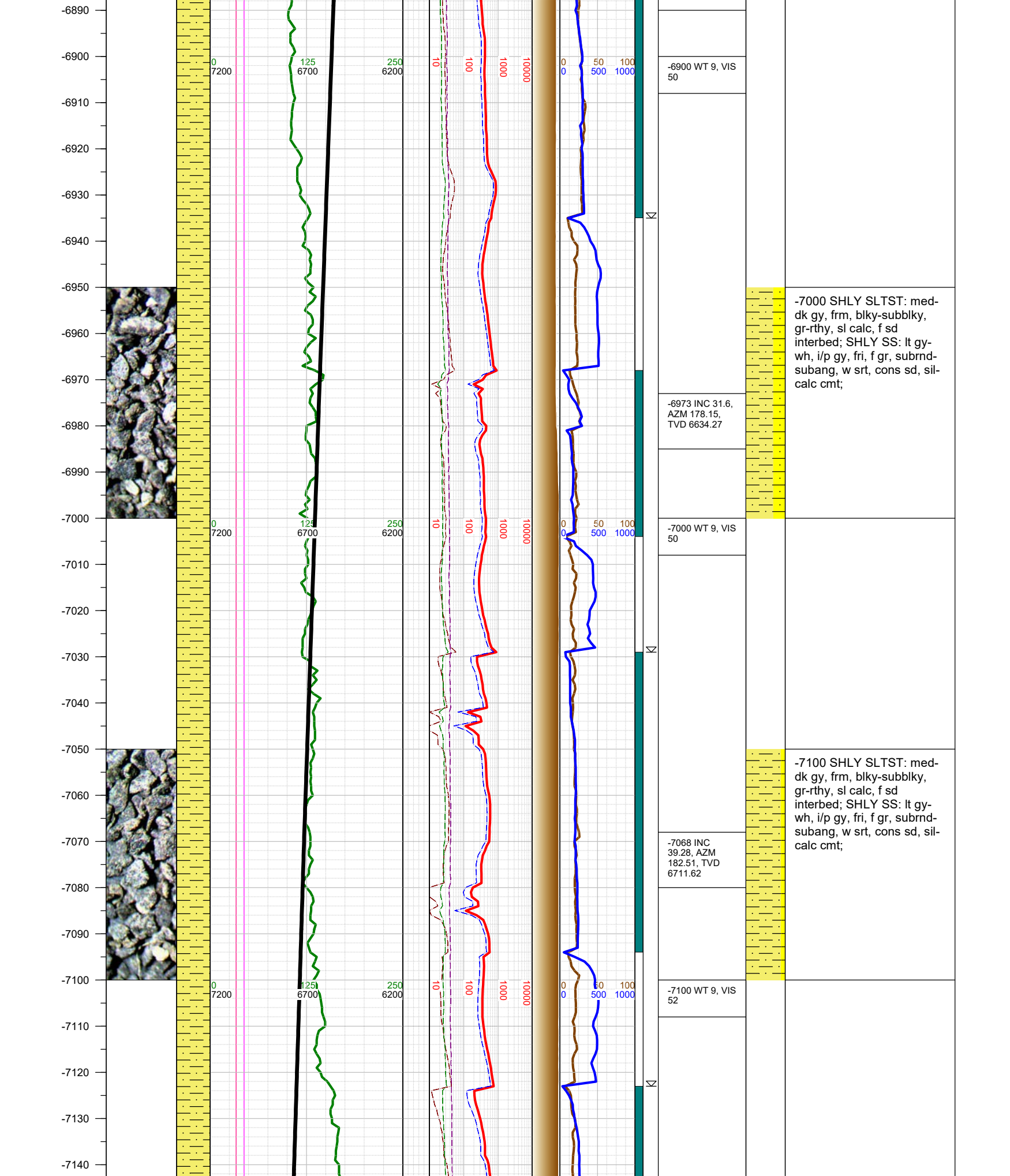
-6650 Reached KOP of 6650' MD, 6333' TVD at 0650 hrs on 10/7/2017 and immediately began drilling the curve.
-6650 Change TVD Scale
-6689 INC 6.32, AZM 170.79, TVD 6371.62
-6710 WT 9, VIS 52
-6750 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc, f sd interbed; SHLY SS: lt gy-wh, i/p gy, fri, f gr, subrnd-subang, w srt, cons sd, sil-calc cmt;
-6783 INC 18.78, AZM 173.92, TVD 6463.2
-6800 WT 9, VIS 52
-6878 INC 25.9, AZM 176.3, TVD 6551.01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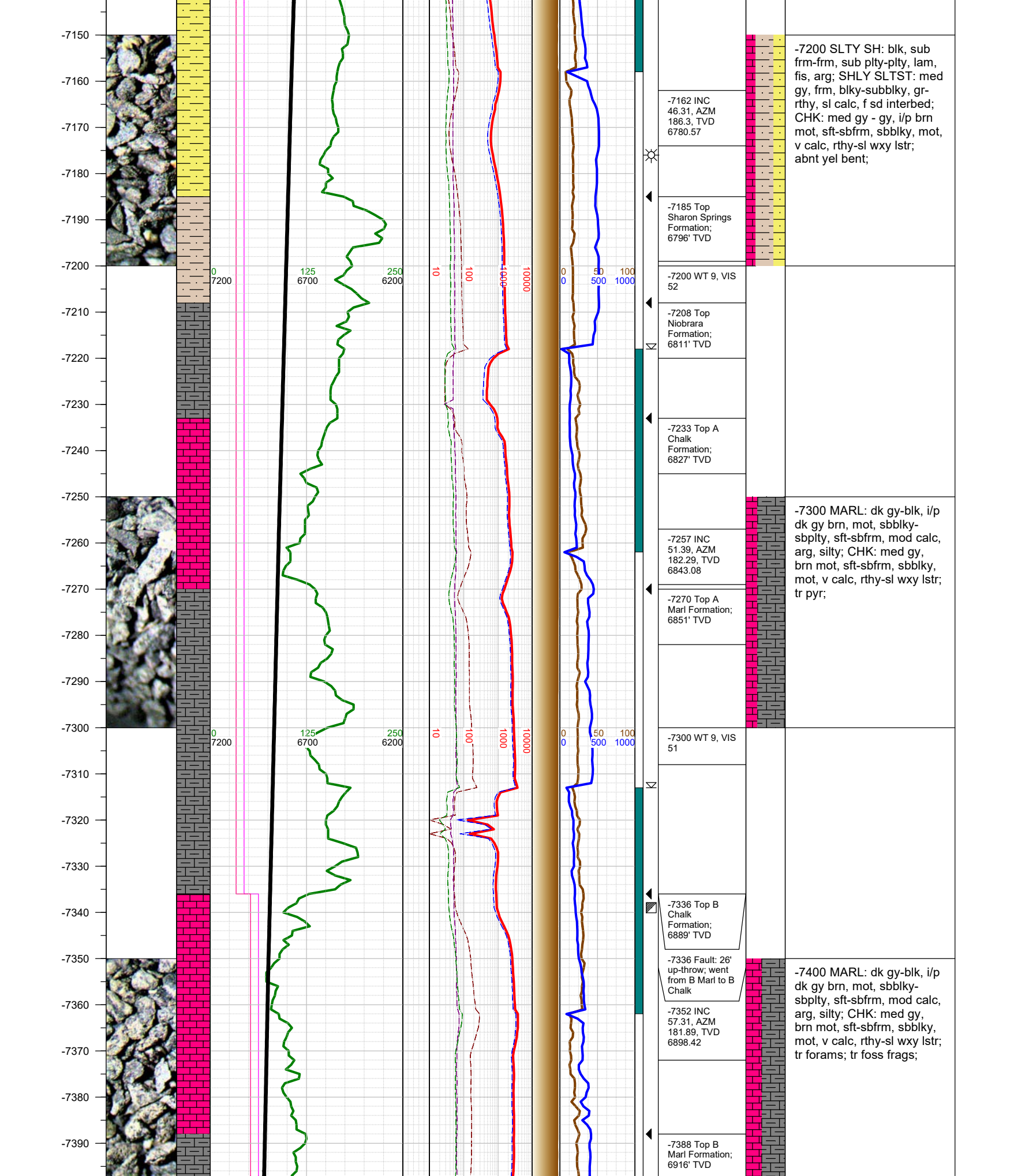
-6900 WT 9, VIS 50
-6973 INC 31.6, AZM 178.15, TVD 6634.27
-7000 WT 9, VIS 50
-7068 INC 39.28, AZM 182.51, TVD 6711.62
-7100 WT 9, VIS 52
-7000 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc, f sd interbed; SHLY SS: lt gy-wh, i/p gy, fri, f gr, subrnd-subang, w srt, cons sd, sil-calc cmt;
-7100 SHLY SLTST: med-dk gy, frm, blky-subblky, gr-rthy, sl calc, f sd interbed; SHLY SS: lt gy-wh, i/p gy, fri, f gr, subrnd-subang, w srt, cons sd, sil-calc cmt;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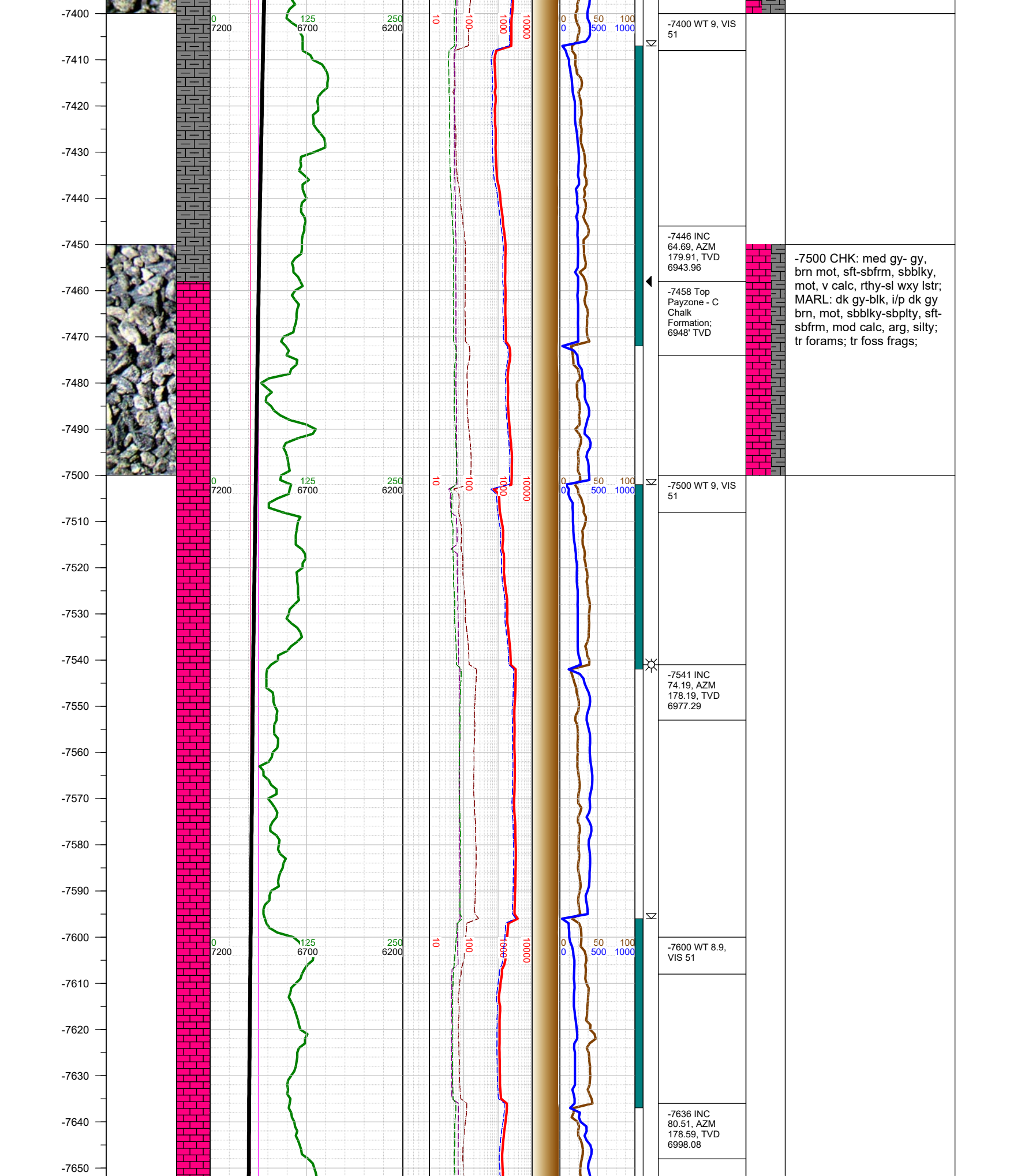
-7162 INC 46.31, AZM 186.3, TVD 6780.57
-7185 Top Sharon Springs Formation; 6796' TVD
-7200 WT 9, VIS 52
-7208 Top Niobrara Formation; 6811' TVD
-7233 Top A Chalk Formation; 6827' TVD
-7257 INC 51.39, AZM 182.29, TVD 6843.08
-7270 Top A Marl Formation; 6851' TVD
-7300 WT 9, VIS 51
-7336 Top B Chalk Formation; 6889' TVD
-7336 Fault: 26' up-throw; went from B Marl to B Chalk
-7352 INC 57.31, AZM 181.89, TVD 6898.42
-7388 Top B Marl Formation; 6916' TVD
-7200 SLTY SH: blk, sub frm-frm, sub plty-plty, lam, fis, arg; SHLY SLTST: med gy, frm, blky-subblky, gr-rthy, sl calc, f sd interbed; CHK: med gy - gy, i/p brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; abnt yel bent;
-7300 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; tr pyr;
-7400 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; tr forams; tr foss frags;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-7400 WT 9, VIS 51
-7446 INC 64.69, AZM 179.91, TVD 6943.96
-7458 Top Payzone - C Chalk Formation; 6948' TVD
-7500 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr forams; tr foss frags;
-7500 WT 9, VIS 51
-7541 INC 74.19, AZM 178.19, TVD 6977.29
-7600 WT 8.9, VIS 51
-7636 INC 80.51, AZM 178.59, TVD 6998.08

-7700 WT 8.9, VIS 51

-7730 INC 87.01, AZM 181.41, TVD 7008.3

-7735 Reached LP of 7735' MD, 7009' TVD at 1336 hrs on 10/7/2017 and immediately began drilling the lateral.

-7735 Change TVD Scale

-7800 WT 8.9, VIS 51

-7821 Fault: 48' down-throw; went from C Marl to C Chalk

-7824 INC 87.89, AZM 180.39, TVD 7012.48

-7900 WT 8.9, VIS 51

-7750 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr forams; tr foss frags; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr;

-7919 INC 90.41, AZM 179.78, TVD 7013.89

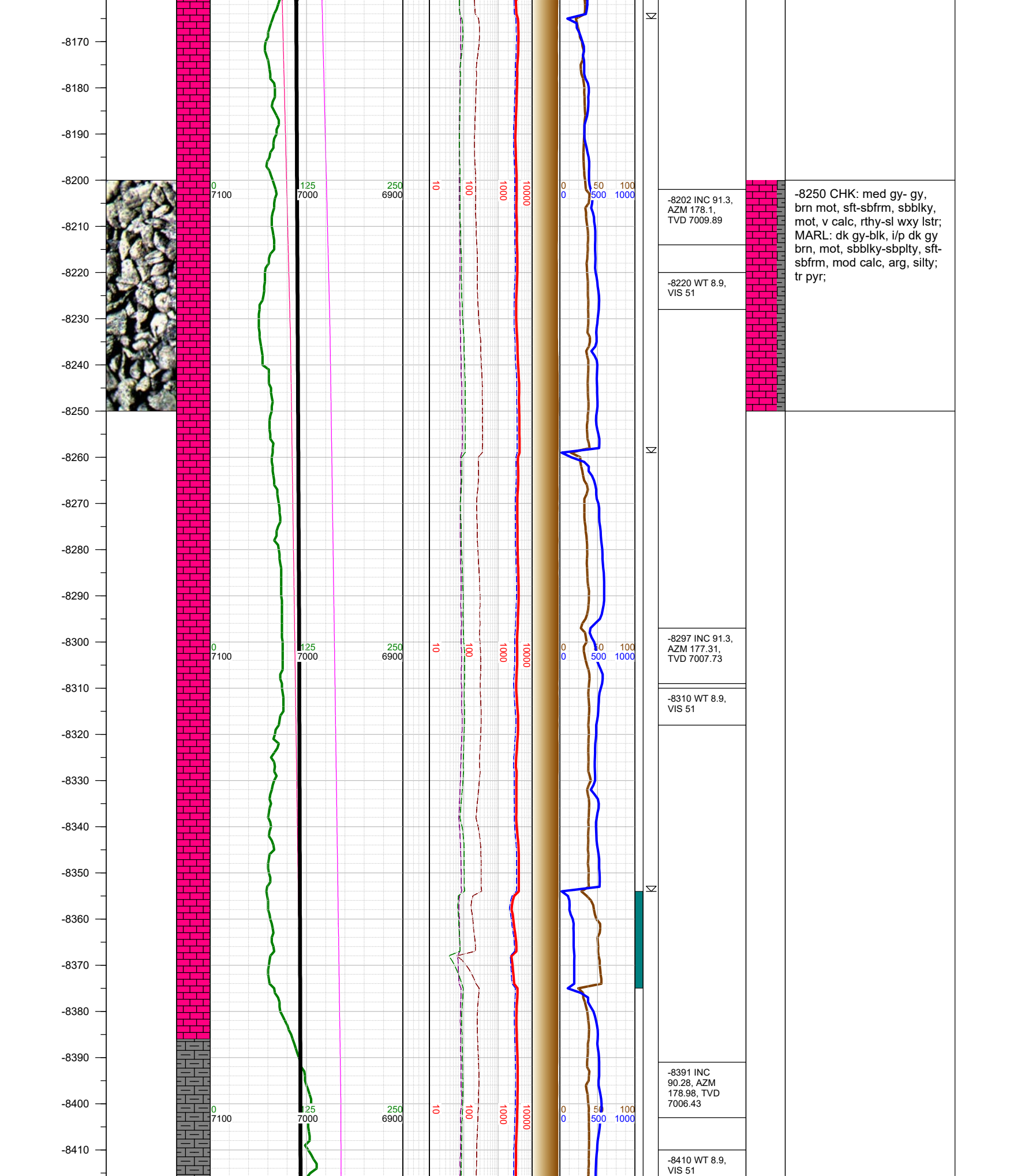
-8000 CHK: med gy- gy, occ dk gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr forams; tr pyr;

-8000 WT 8.9, VIS 51

-8014 INC 90.59, AZM 178.98, TVD 7013.06

-8100 WT 8.9, VIS 51

-8108 INC 90.99, AZM 179.21, TVD 7011.76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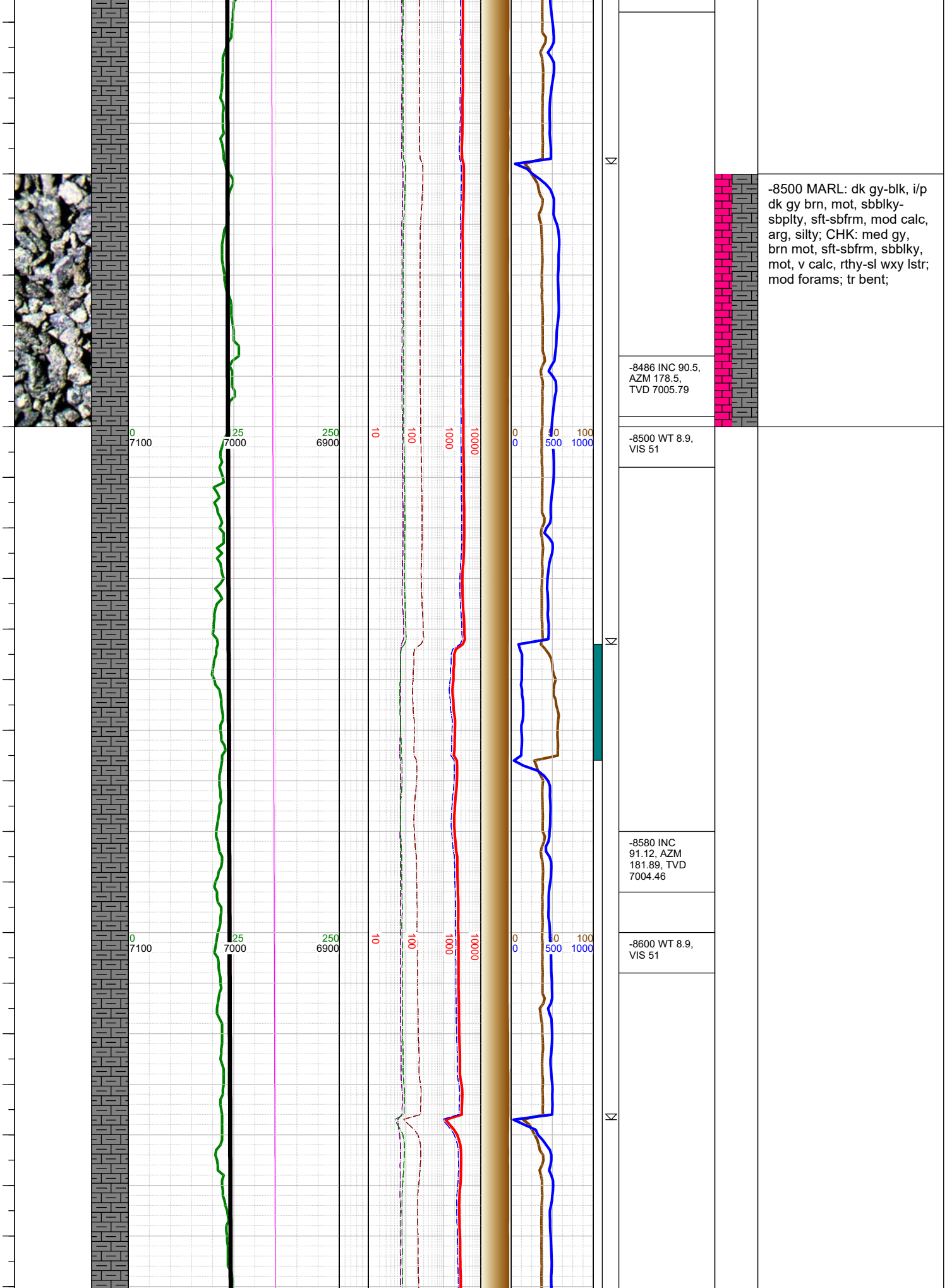
-8202 INC 91.3, AZM 178.1, TVD 7009.89
-8220 WT 8.9, VIS 51
-8250 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr;
-8297 INC 91.3, AZM 177.31, TVD 7007.73
-8310 WT 8.9, VIS 51
-8391 INC 90.28, AZM 178.98, TVD 7006.43
-8410 WT 8.9, VIS 51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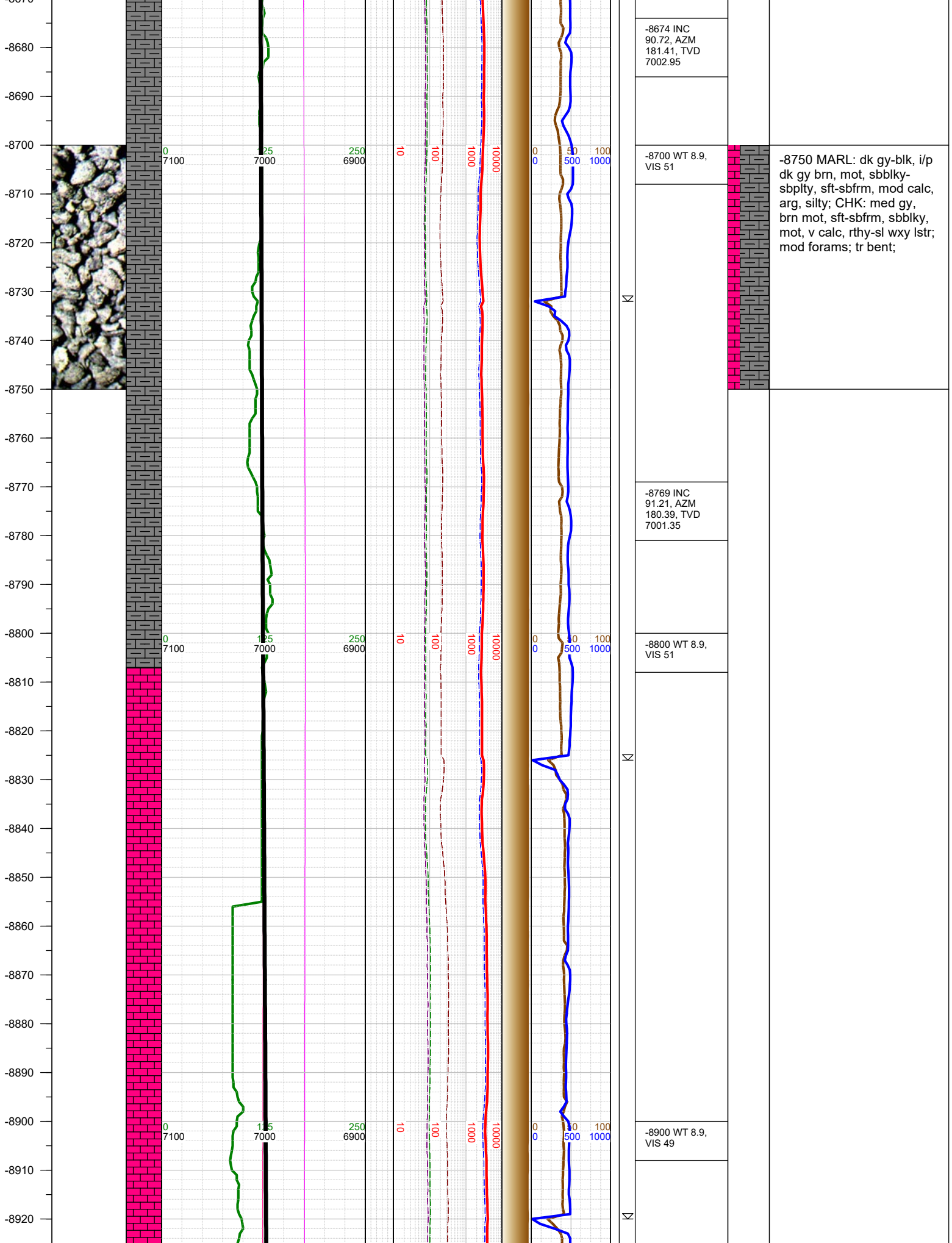
-8500 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; mod forams; tr bent;
-8486 INC 90.5, AZM 178.5, TVD 7005.79
-8500 WT 8.9, VIS 51
-8580 INC 91.12, AZM 181.89, TVD 7004.46
-8600 WT 8.9, VIS 51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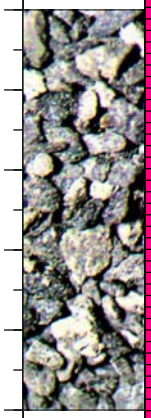
-8674 INC 90.72, AZM 181.41, TVD 7002.95
-8700 WT 8.9, VIS 51
-8750 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; mod forams; tr bent;
-8769 INC 91.21, AZM 180.39, TVD 7001.35
-8800 WT 8.9, VIS 51
-8900 WT 8.9, VIS 49



-8957 INC 91.69, AZM 179.51, TVD 6996.59

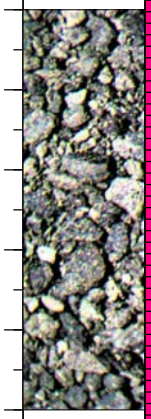
-9000 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; tr fos frags;

-9000 WT 8.9, VIS 49

-9052 INC 91.52, AZM 180.7, TVD 6993.93

-9100 WT 8.9, VIS 49

-9146 INC 91.52, AZM 180.7, TVD 6991.44



-9200 WT 8.9, VIS 49

-9241 INC 90.94, AZM 180.79, TVD 6989.4

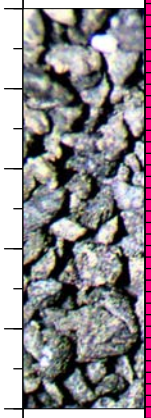
-9300 WT 8.9, VIS 50

-9335 INC 90.41, AZM 180.09, TVD 6988.29

-9400 WT 8.9, VIS 50

-9430 INC

-9250 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; tr fos frags;



-9500 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; mod fos frags;

90.72, AZM 179.38, TVD 6987.35

-9500 WT 8.9, VIS 50

-9524 INC 90.28, AZM 179.78, TVD 6986.53

-9600 WT 8.9, VIS 46

-9619 INC 90.41, AZM 179.29, TVD 6985.96

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-9700 WT 8.9, VIS 46

-9713 INC 89.7, AZM 179.21, TVD 6985.87

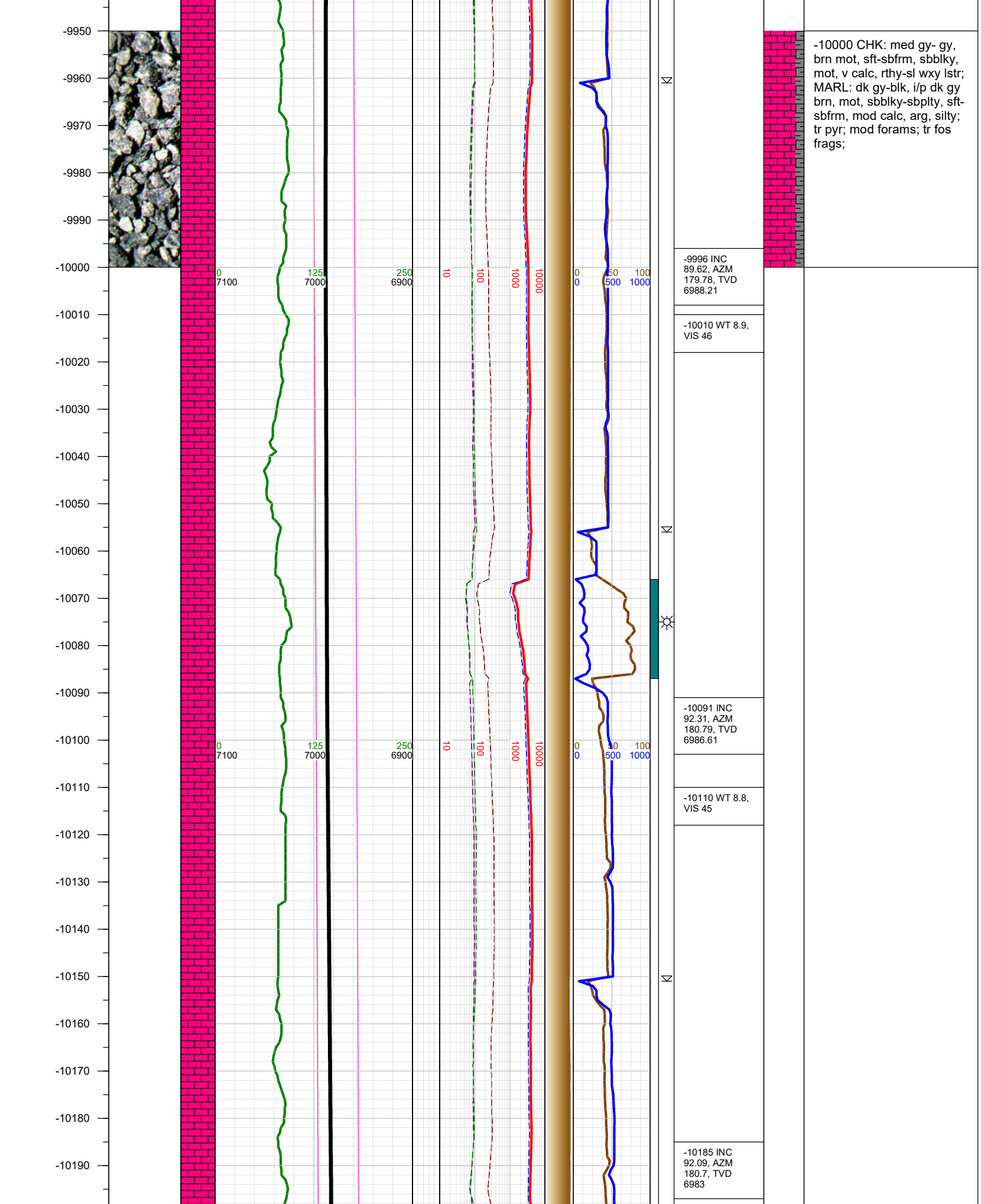
-9750 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; frq forams; frq fos frags;

-9807 INC 89.22, AZM 179.38, TVD 6986.76

-9820 WT 8.9, VIS 46

-9902 INC 89.7, AZM 180.48, TVD 6987.65

-9920 WT 8.9, VIS 46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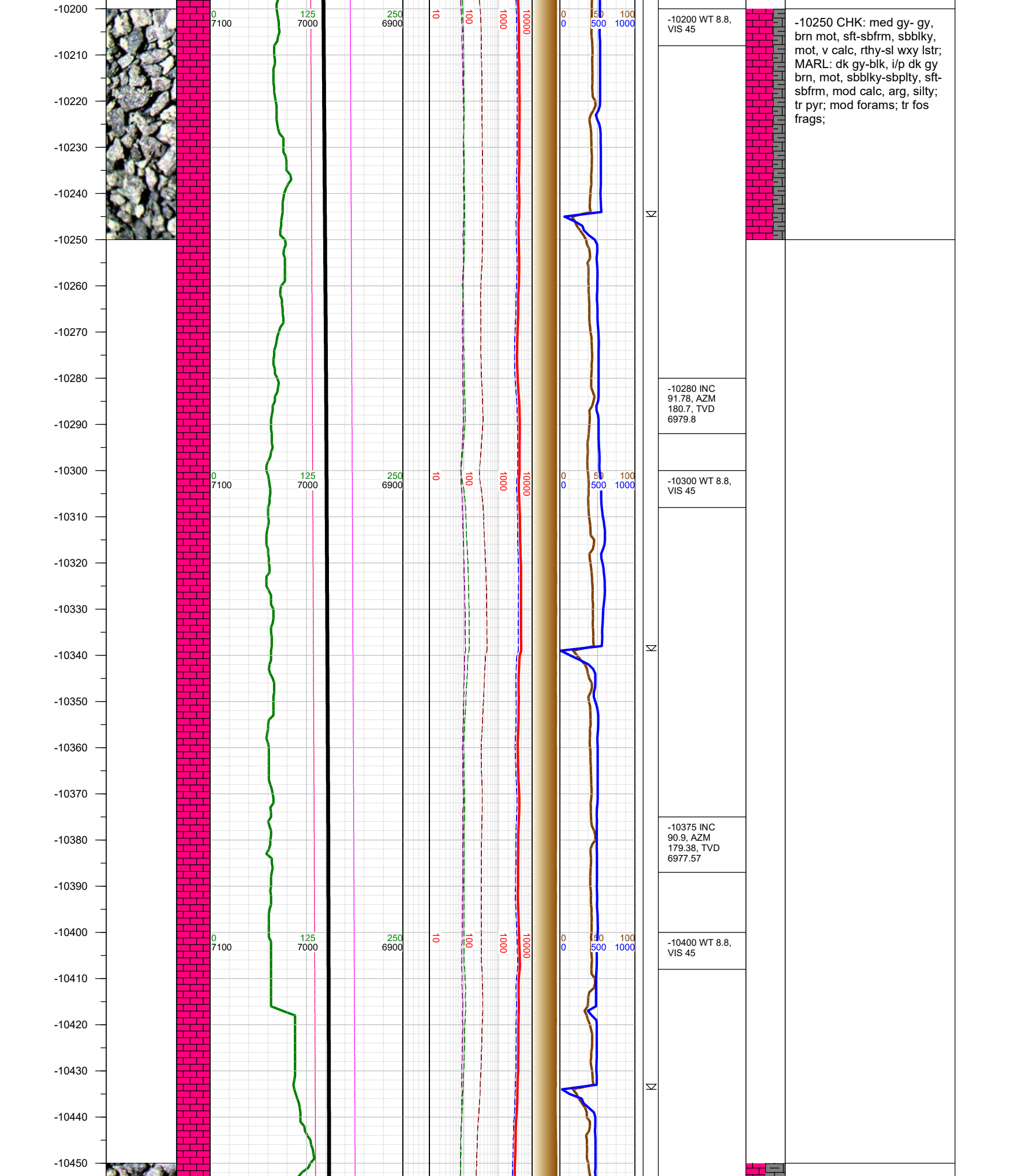
-9996 INC 89.62, AZM 179.78, TVD 6988.21
-10010 WT 8.9, VIS 46
-10091 INC 92.31, AZM 180.79, TVD 6986.61
-10110 WT 8.8, VIS 45
-10185 INC 92.09, AZM 180.7, TVD 6983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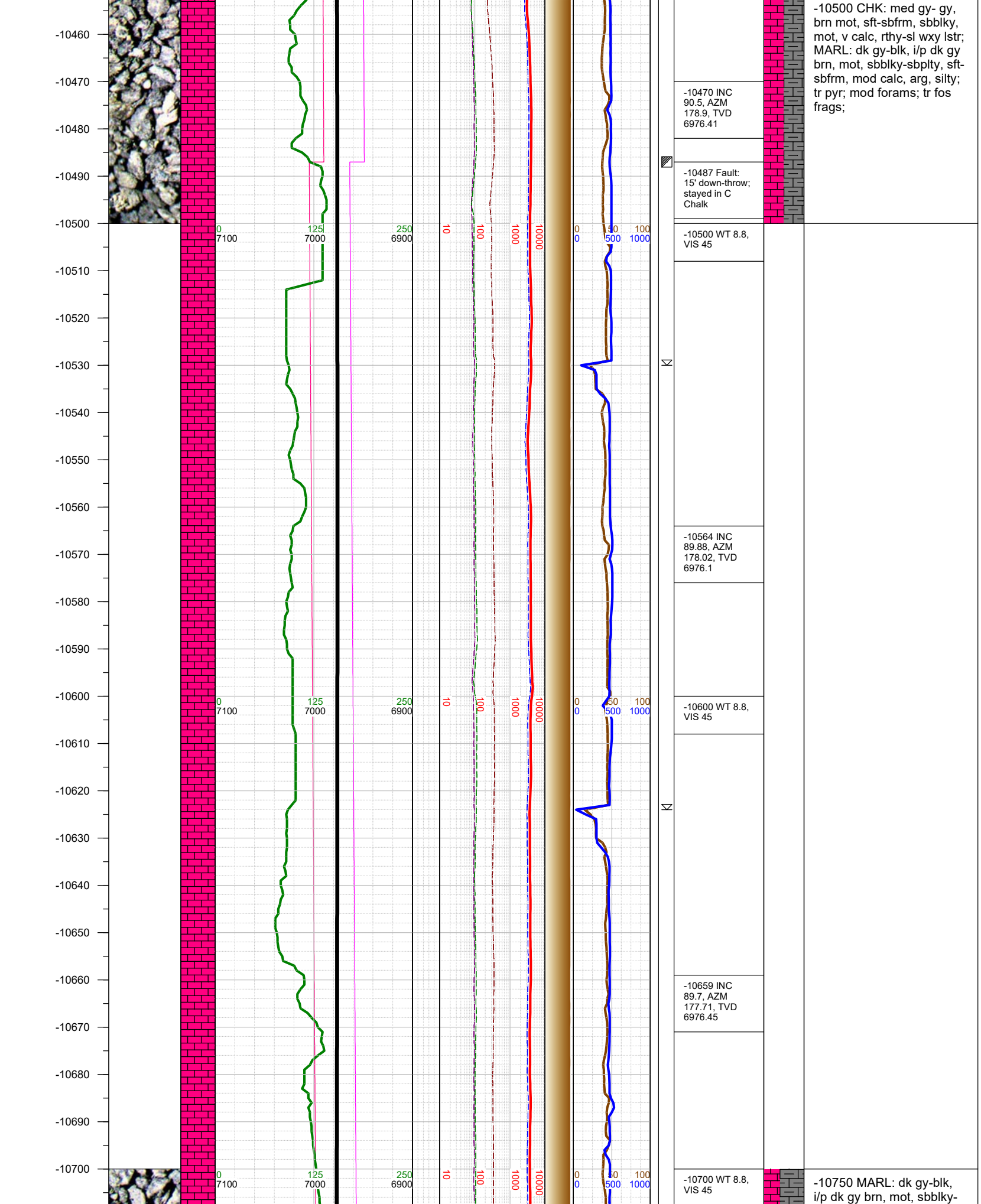
-10280 INC 91.78, AZM 180.7, TVD 6979.8
-10300 WT 8.8, VIS 45
-10375 INC 90.9, AZM 179.38, TVD 6977.57
-10400 WT 8.8, VIS 45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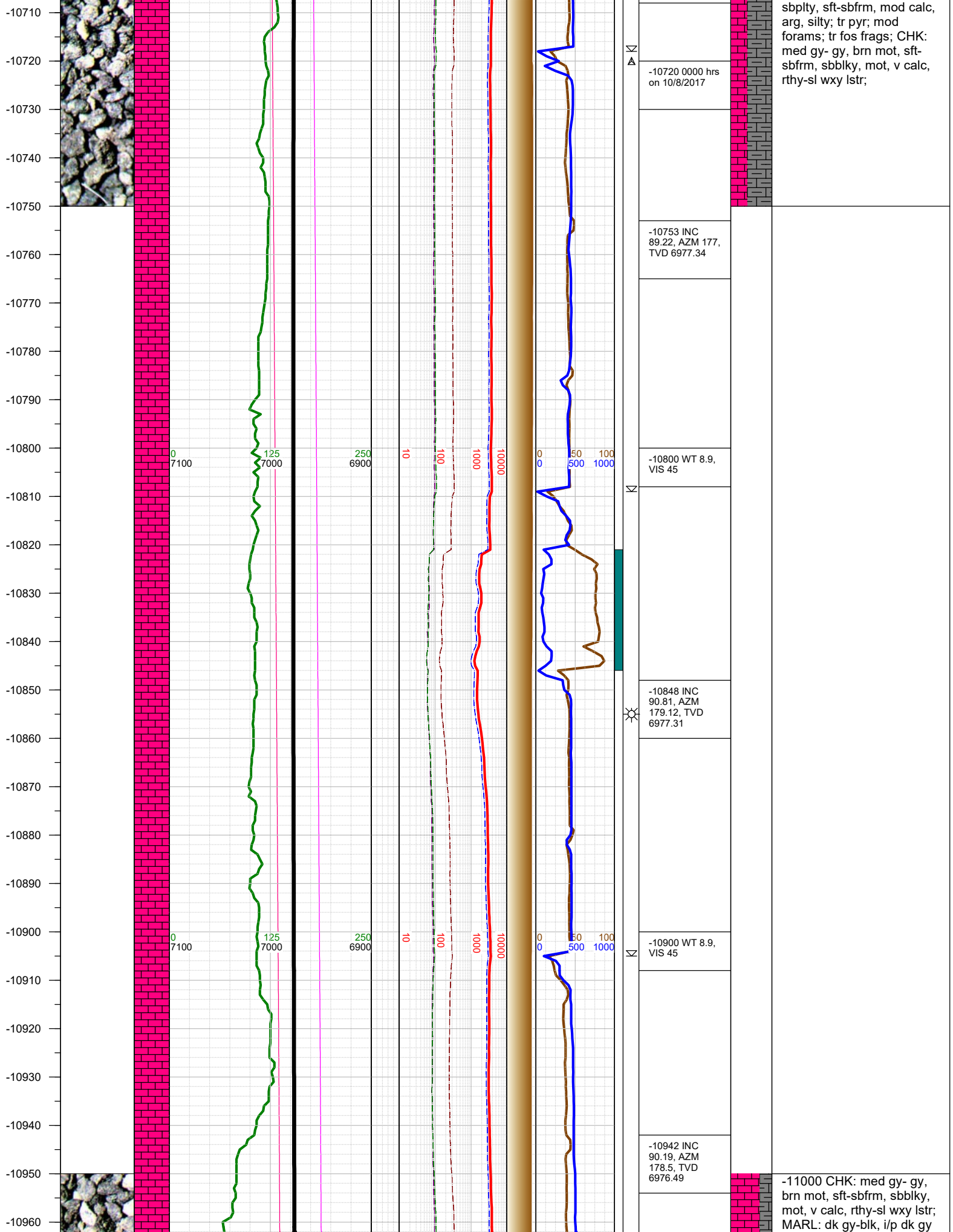
-10500 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; tr fos frags;
-10470 INC 90.5, AZM 178.9, TVD 6976.41
-10487 Fault: 15' down-throw; stayed in C Chalk
-10500 WT 8.8, VIS 45
-10564 INC 89.88, AZM 178.02, TVD 6976.1
-10600 WT 8.8, VIS 45
-10659 INC 89.7, AZM 177.71, TVD 6976.45
-10700 WT 8.8, VIS 45
-10750 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-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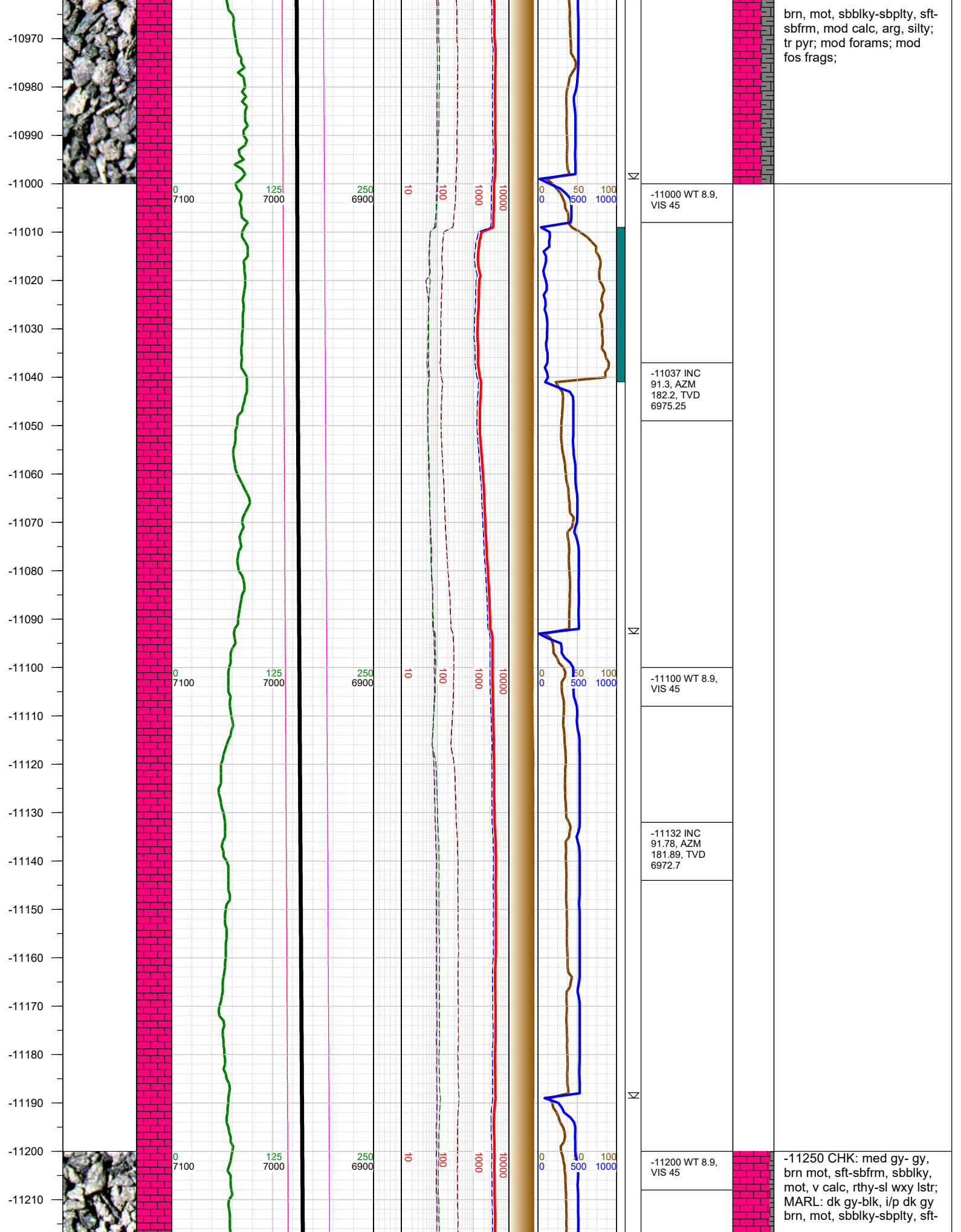
sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; tr fos frags; CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr;
-10720 0000 hrs on 10/8/2017
-10753 INC 89.22, AZM 177, TVD 6977.34
-10800 WT 8.9, VIS 45
-10848 INC 90.81, AZM 179.12, TVD 6977.31
-10900 WT 8.9, VIS 45
-10942 INC 90.19, AZM 178.5, TVD 6976.49
-11000 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy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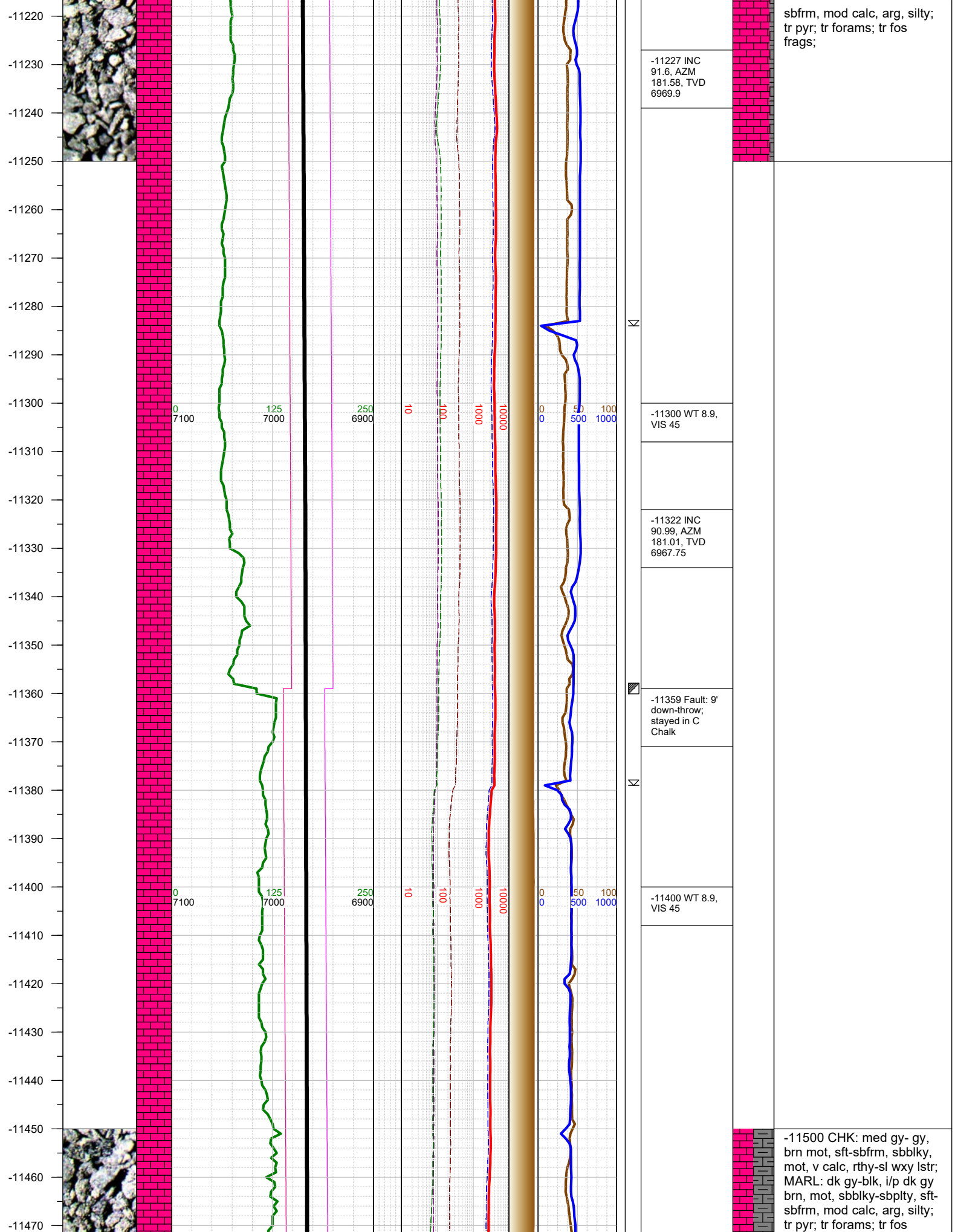
KI
-11000 WT 8.9, VIS 45
-11037 INC 91.3, AZM 182.2, TVD 6975.25
-11100 WT 8.9, VIS 45
-11132 INC 91.78, AZM 181.89, TVD 6972.7
-11200 WT 8.9, VIS 45
brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; mod fos frags;
-11250 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-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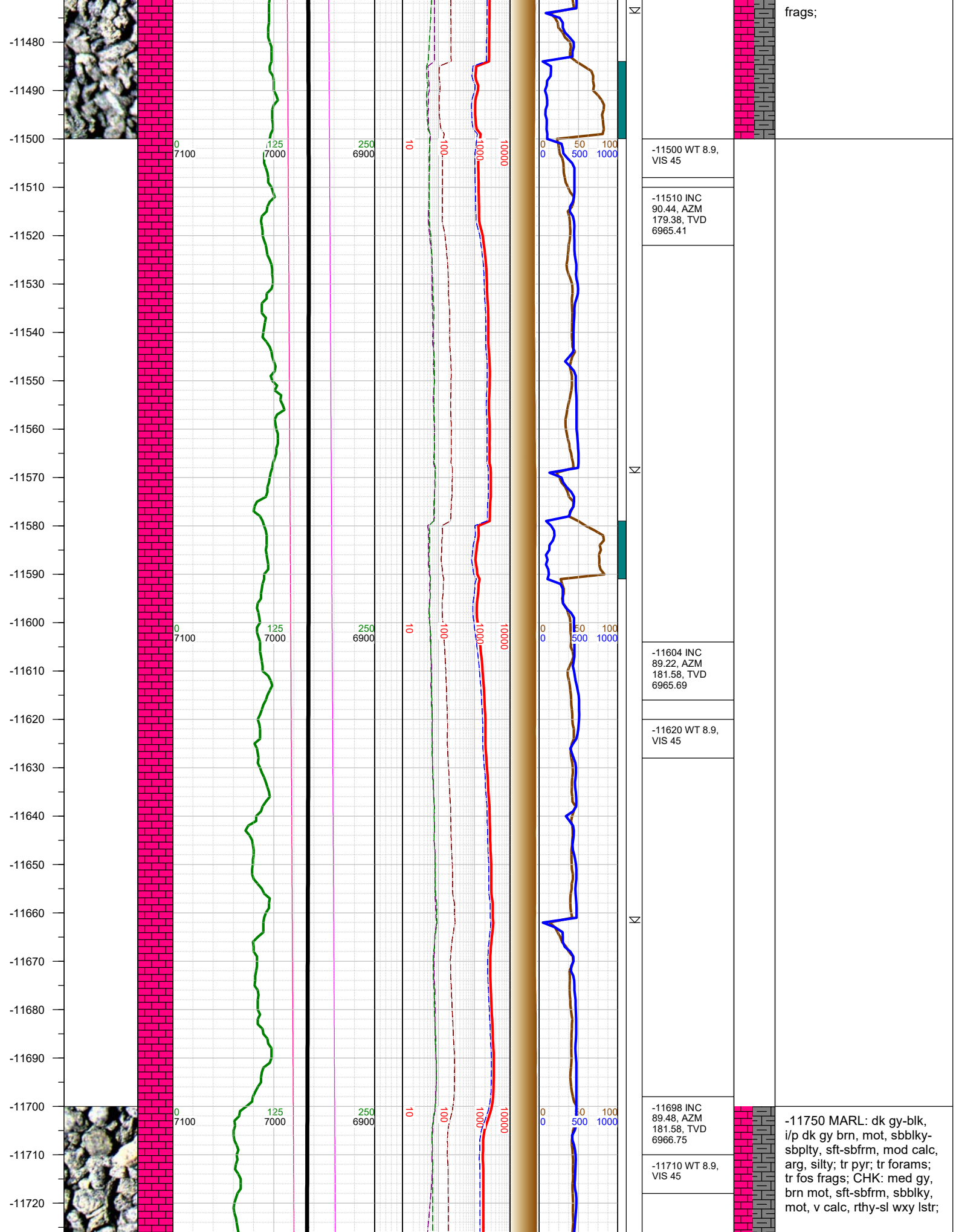
-11227 INC 91.6, AZM 181.58, TVD 6969.9
-11300 WT 8.9, VIS 45
-11322 INC 90.99, AZM 181.01, TVD 6967.75
-11359 Fault: 9' down-throw; stayed in C Chalk
-11400 WT 8.9, VIS 45
sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;
-11500 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos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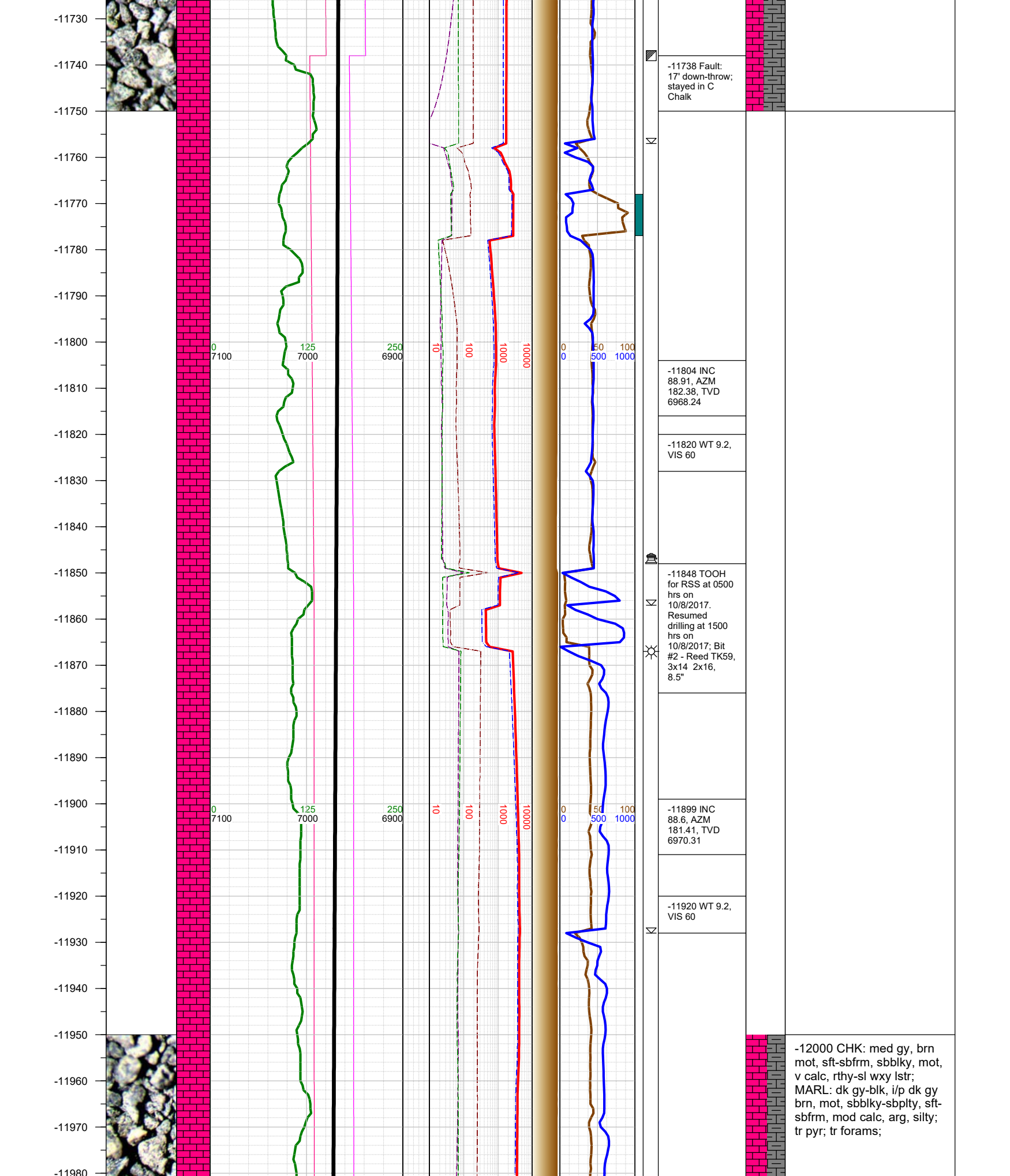
-11500 WT 8.9, VIS 45
-11510 INC 90.44, AZM 179.38, TVD 6965.41
-11604 INC 89.22, AZM 181.58, TVD 6965.69
-11620 WT 8.9, VIS 45
-11698 INC 89.48, AZM 181.58, TVD 6966.75
-11710 WT 8.9, VIS 45
frags;
-11750 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr;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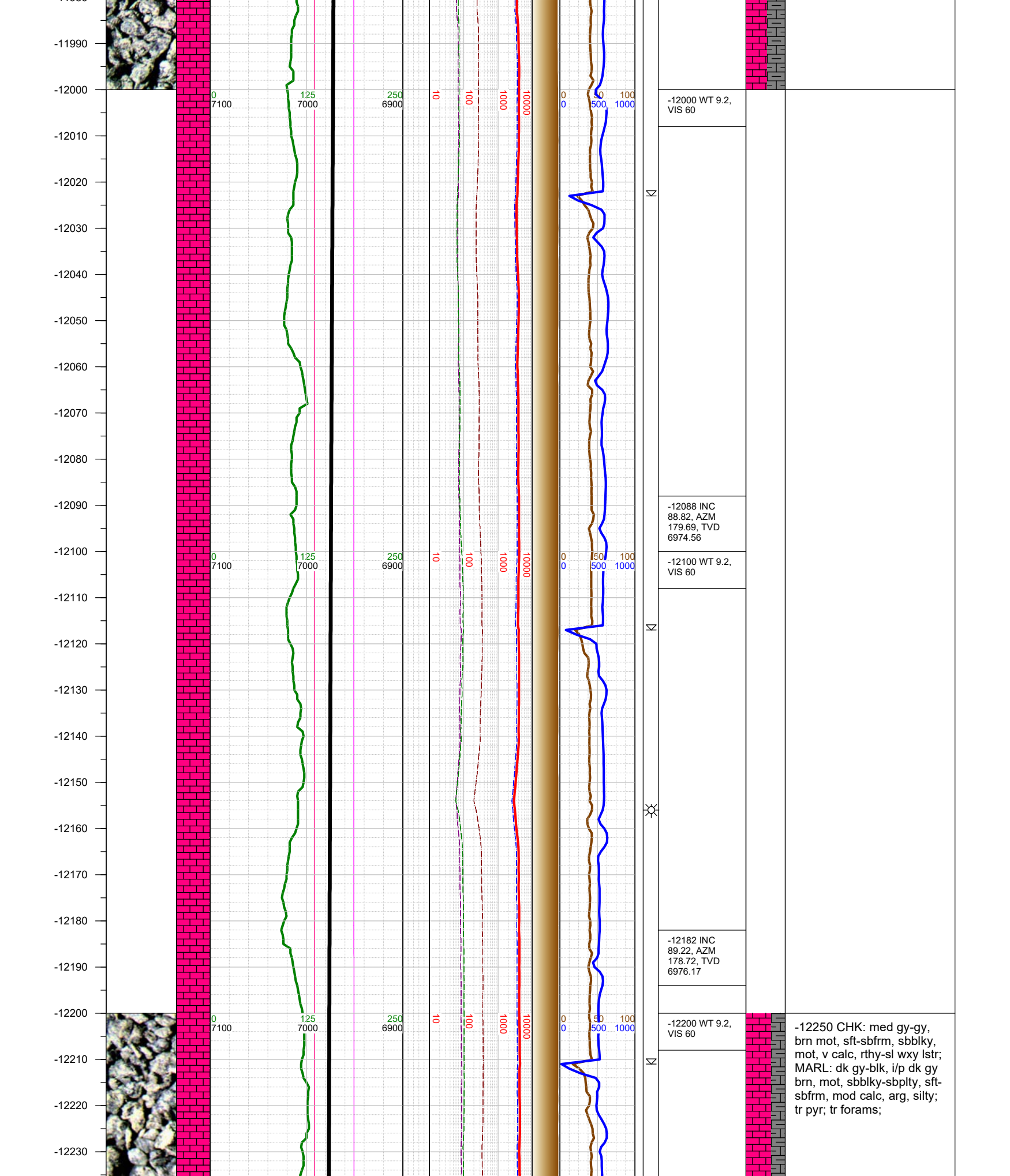
-11738 Fault: 17' down-throw; stayed in C Chalk
-11804 INC 88.91, AZM 182.38, TVD 6968.24
-11820 WT 9.2, VIS 60
-11848 TOOH for RSS at 0500 hrs on 10/8/2017. Resumed drilling at 1500 hrs on 10/8/2017; Bit #2 - Reed TK59, 3x14 2x16, 8.5"
-11899 INC 88.6, AZM 181.41, TVD 6970.31
-11920 WT 9.2, VIS 60
-12000 CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams;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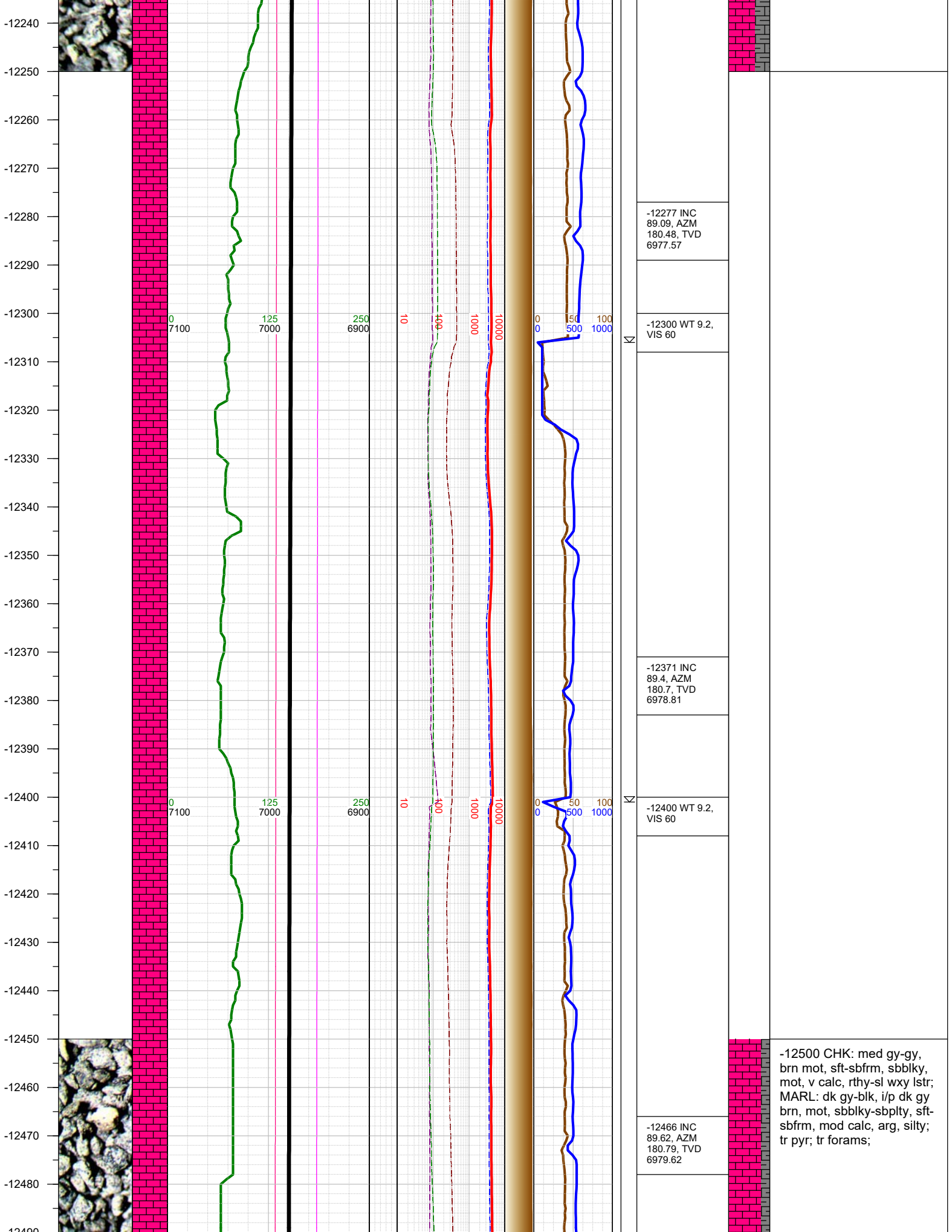
-12000 WT 9.2, VIS 60
-12088 INC 88.82, AZM 179.69, TVD 6974.56
-12100 WT 9.2, VIS 60
-12182 INC 89.22, AZM 178.72, TVD 6976.17
-12200 WT 9.2, VIS 60
-12250 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams;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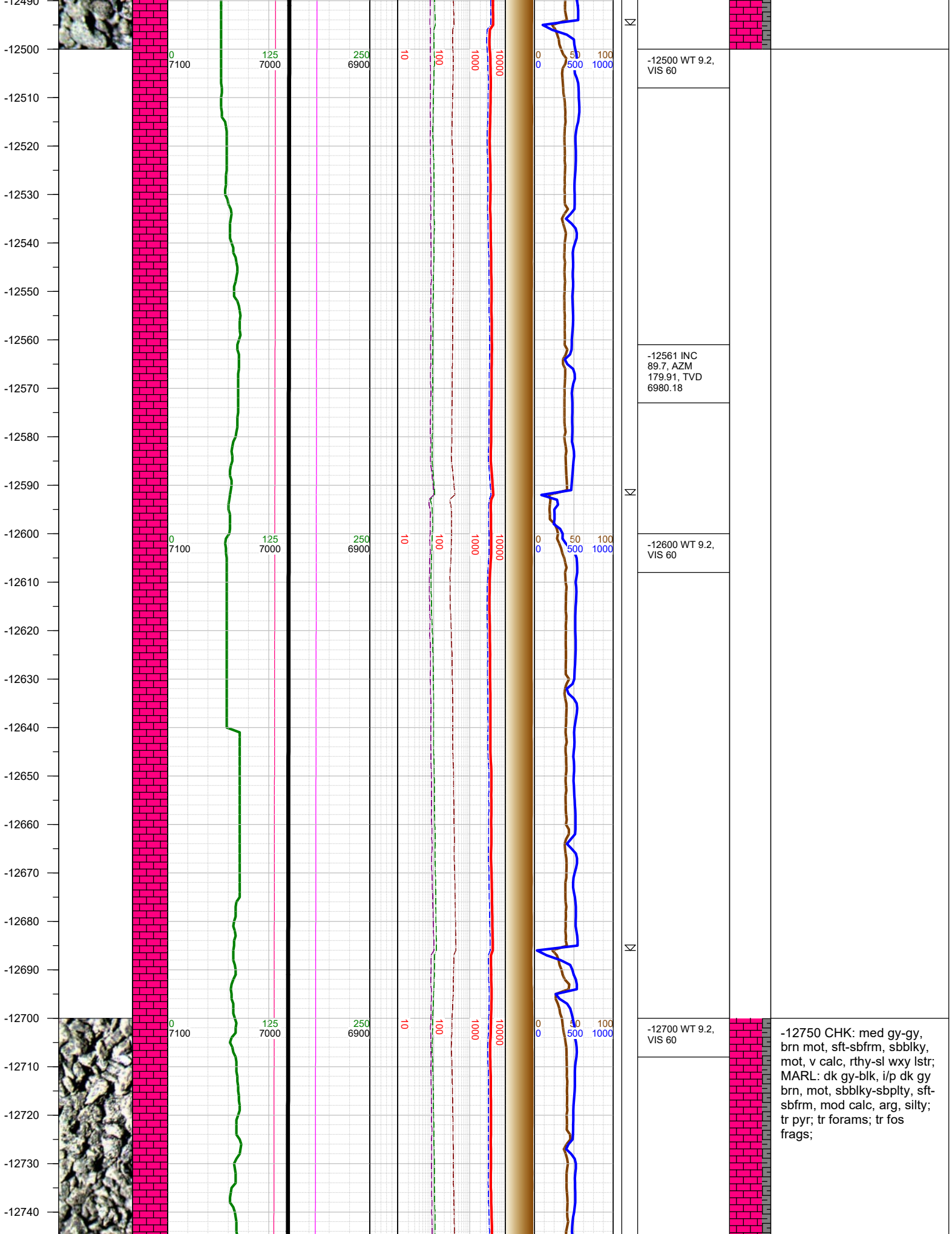
KI
-12277 INC
89.09, AZM
180.48, TVD
6977.57
-12300 WT 9.2,
VIS 60
-12371 INC
89.4, AZM
180.7, TVD
6978.81
-12400 WT 9.2,
VIS 60
-12466 INC
89.62, AZM
180.79, TVD
6979.62
-12500 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams;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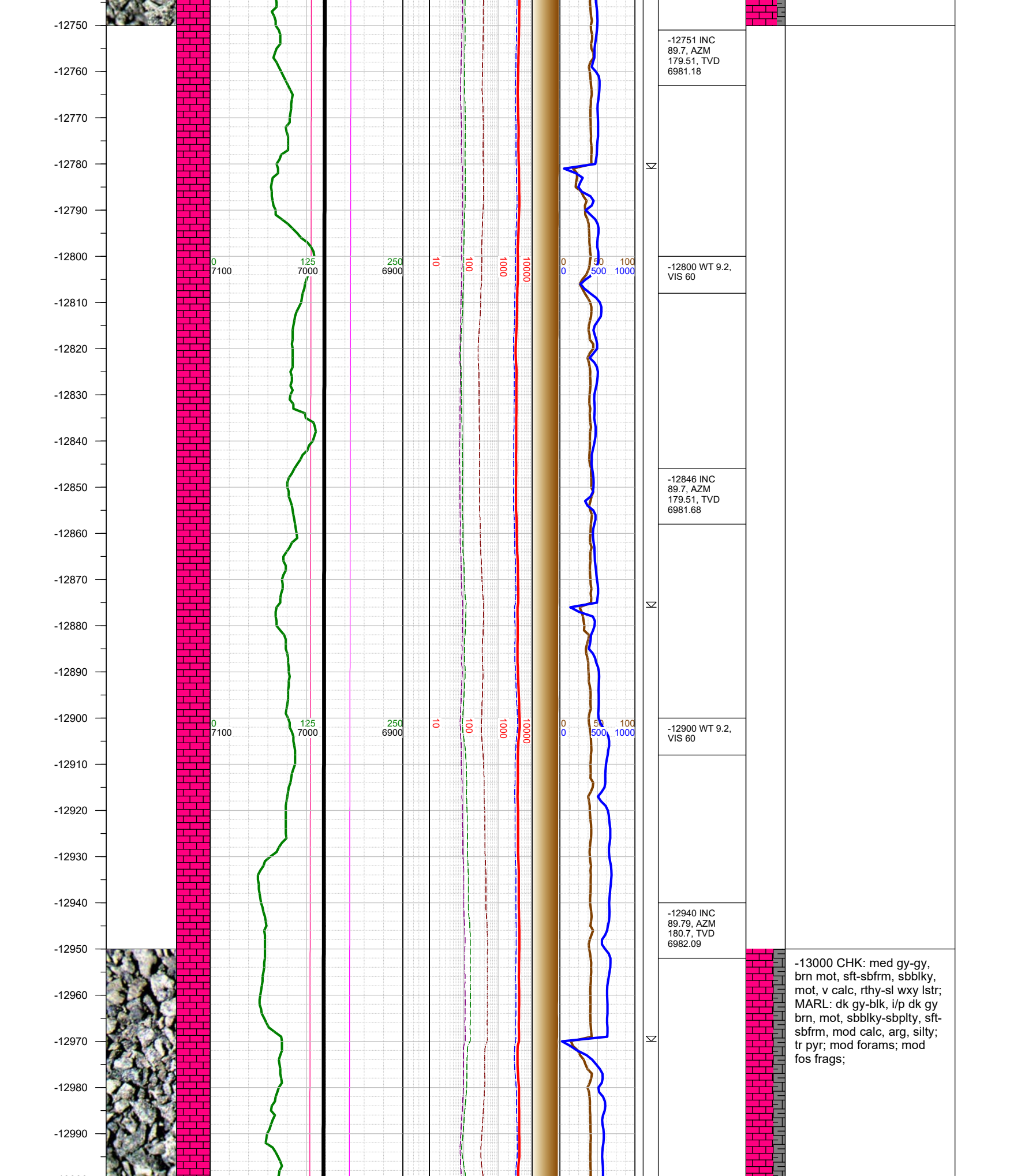
-12500 WT 9.2, VIS 60
-12561 INC 89.7, AZM 179.91, TVD 6980.18
-12600 WT 9.2, VIS 60
-12700 WT 9.2, VIS 60
-12750 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;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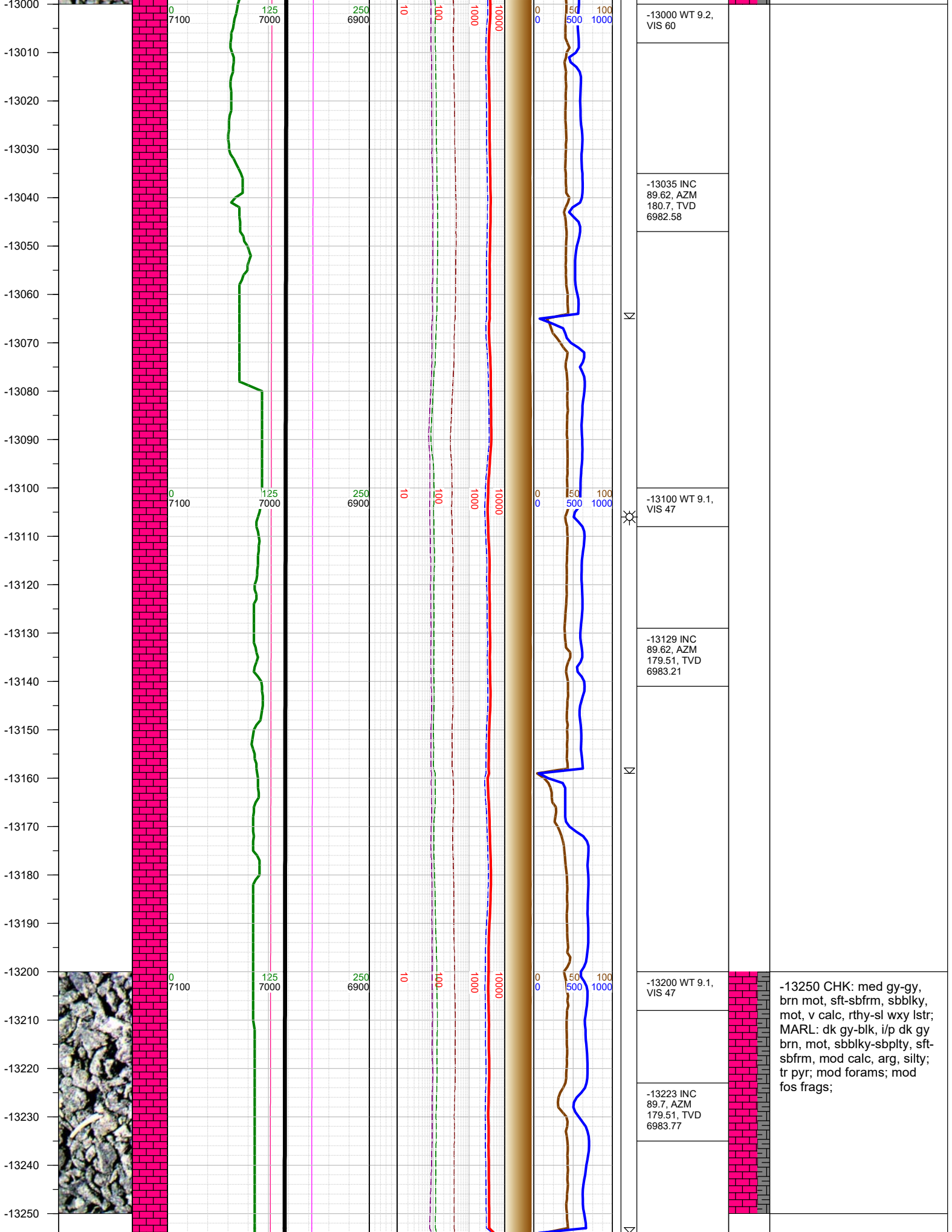
-12751 INC 89.7, AZM 179.51, TVD 6981.18
-12800 WT 9.2, VIS 60
-12846 INC 89.7, AZM 179.51, TVD 6981.68
-12900 WT 9.2, VIS 60
-12940 INC 89.79, AZM 180.7, TVD 6982.09
-13000 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; mod fos frags;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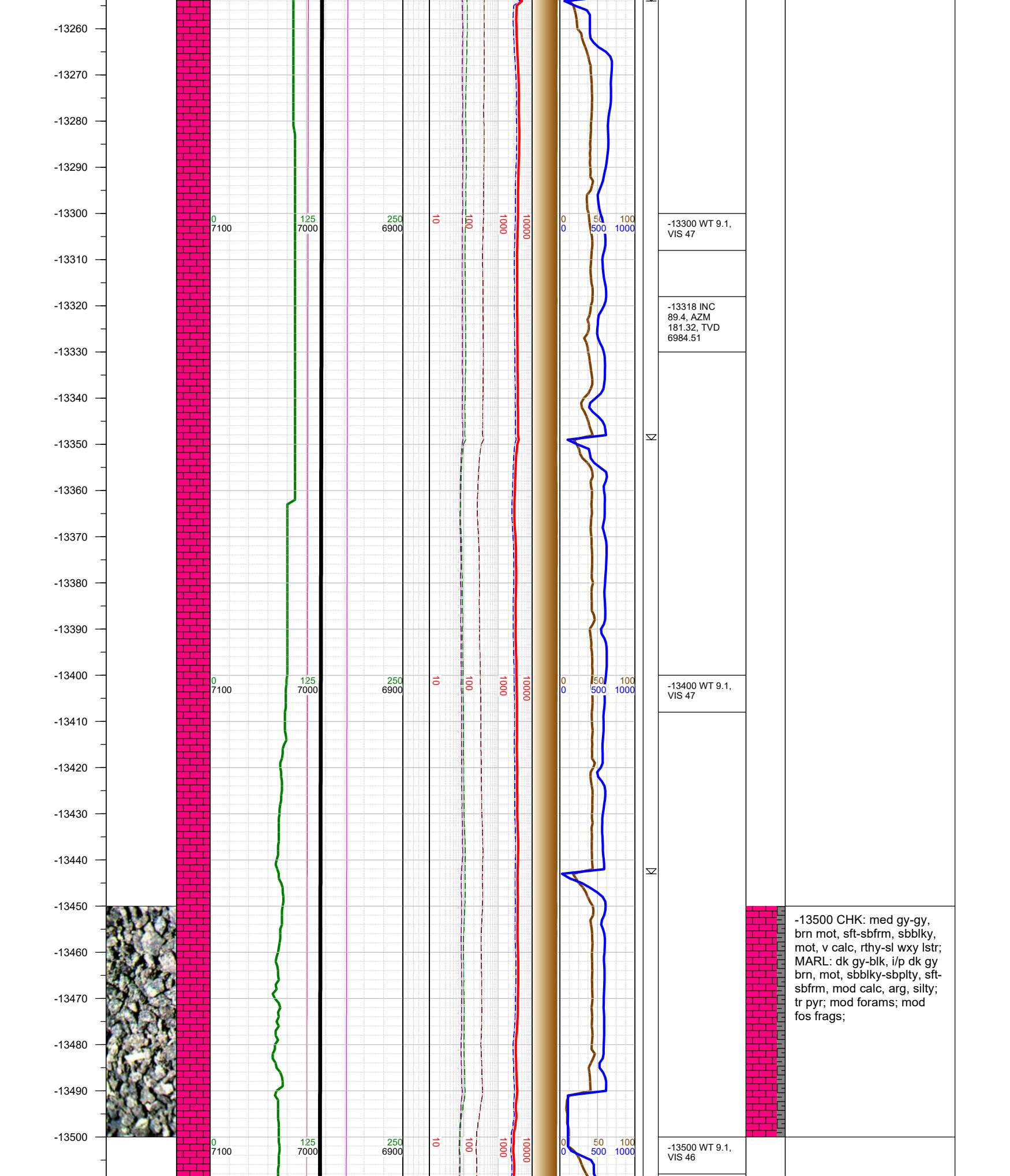
-13000 WT 9.2, VIS 60
-13035 INC 89.62, AZM 180.7, TVD 6982.58
-13100 WT 9.1, VIS 47
-13129 INC 89.62, AZM 179.51, TVD 6983.21
-13200 WT 9.1, VIS 47
-13223 INC 89.7, AZM 179.51, TVD 6983.77
-13250 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; mod fos frags;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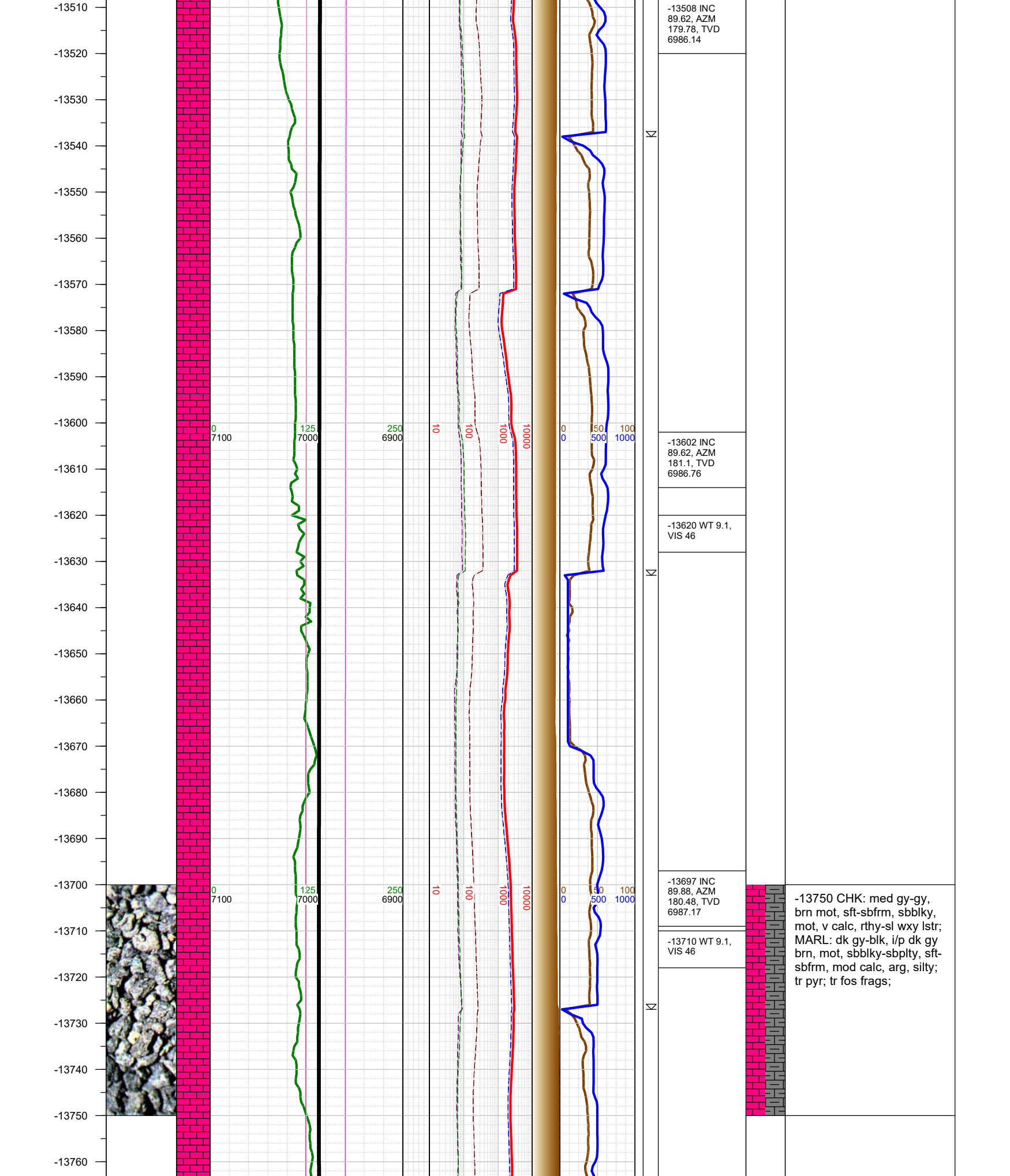
-13300 WT 9.1, VIS 47
-13318 INC 89.4, AZM 181.32, TVD 6984.51
-13400 WT 9.1, VIS 47
-13500 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; mod fos frags;
-13500 WT 9.1, VIS 46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-13508 INC
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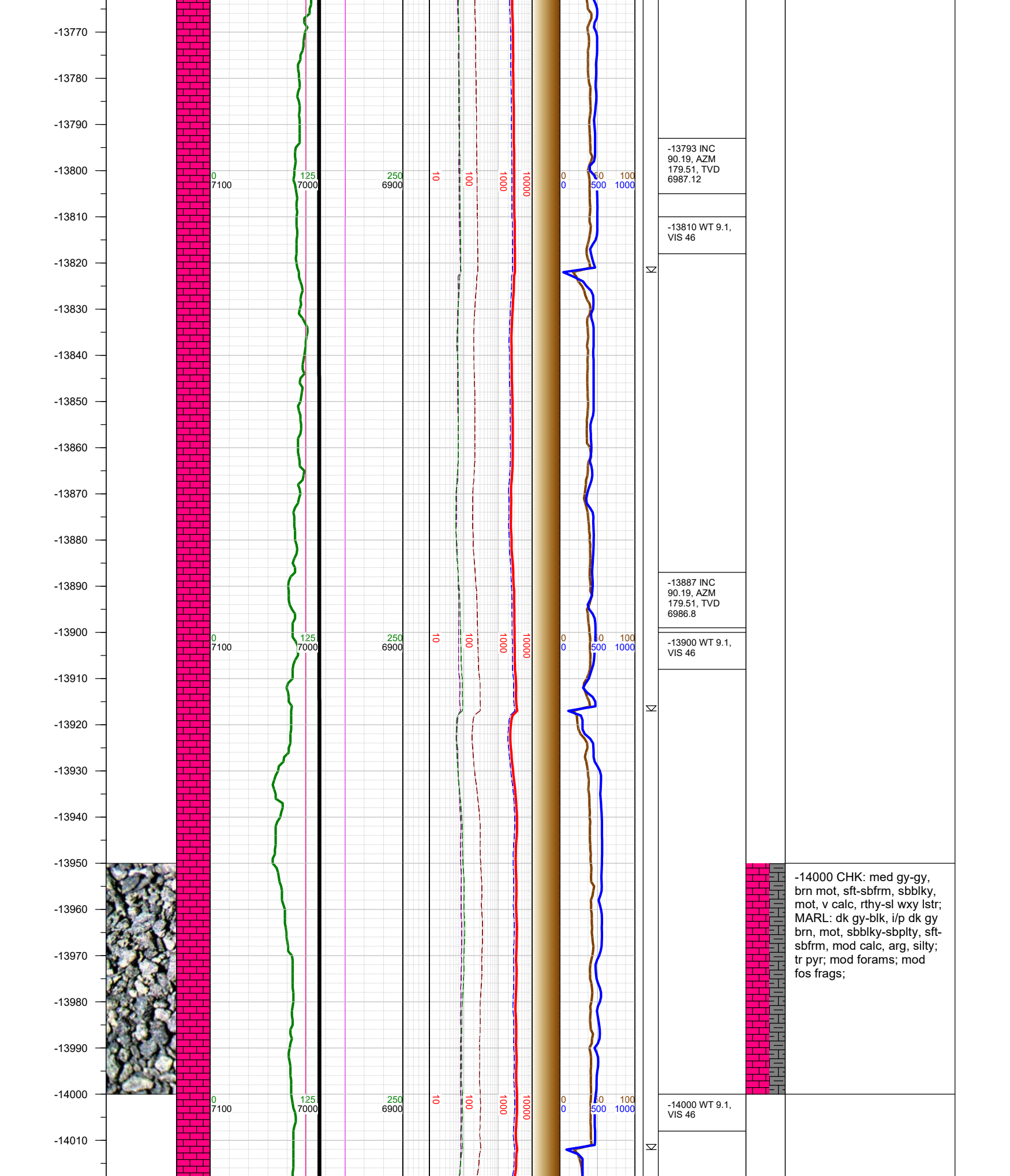
179.78, TVD
6986.14
-13602 INC
89.62, AZM
181.1, TVD
6986.76
-13620 WT 9.1,
VIS 46
-13697 INC
89.88, AZM
180.48, TVD
6987.17
-13710 WT 9.1,
VIS 46
-13750 CHK: med gy-gy,
brn mot, sft-sbfrm, sbblky,
mot, v calc, rthy-sl wxy lstr;
MARL: dk gy-blk, i/p dk gy
brn, mot, sbblky-sbplty, sft-
sbfrm, mod calc, arg, silty;
tr pyr; tr fos frags;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-13793 INC 90.19, AZM 179.51, TVD 6987.12
-13810 WT 9.1, VIS 46
-13887 INC 90.19, AZM 179.51, TVD 6986.8
-13900 WT 9.1, VIS 46
-14000 WT 9.1, VIS 46
KI
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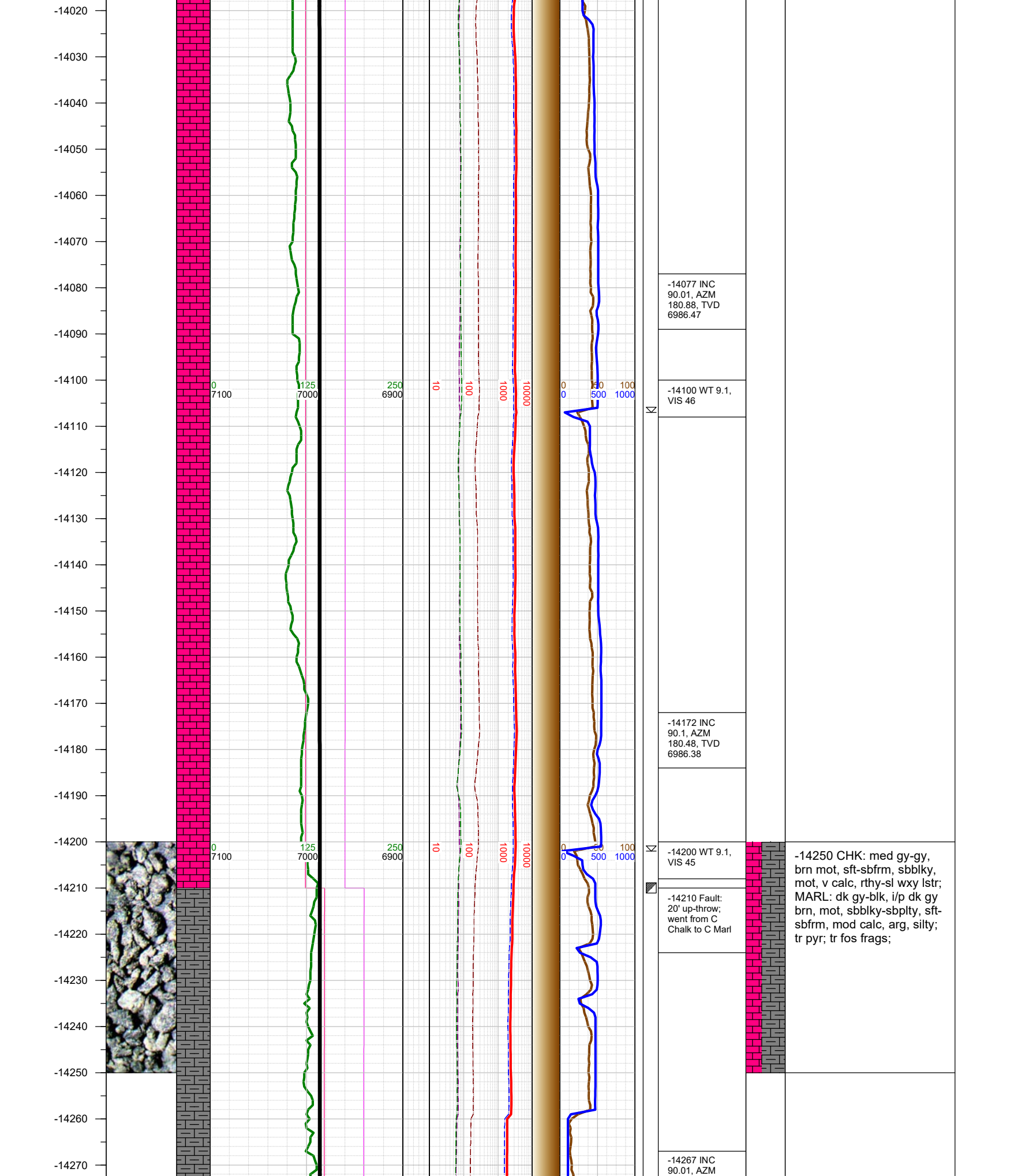
-14000 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; mod fos frags;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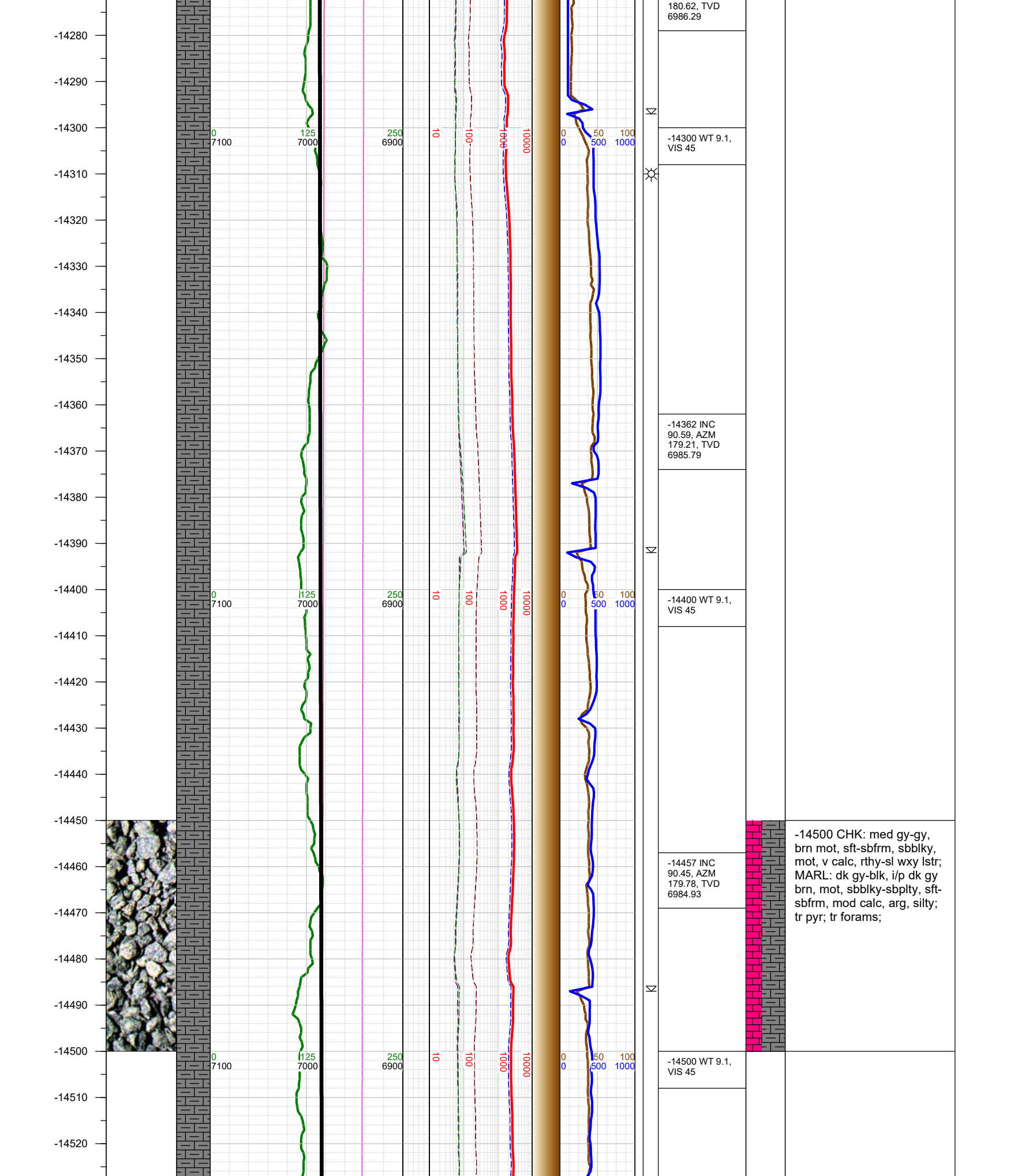
-14077 INC 90.01, AZM 180.88, TVD 6986.47
-14100 WT 9.1, VIS 46
-14172 INC 90.1, AZM 180.48, TVD 6986.38
-14200 WT 9.1, VIS 45
-14210 Fault: 20' up-throw; went from C Chalk to C Marl
-14267 INC 90.01, AZM
-14250 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr fos frags;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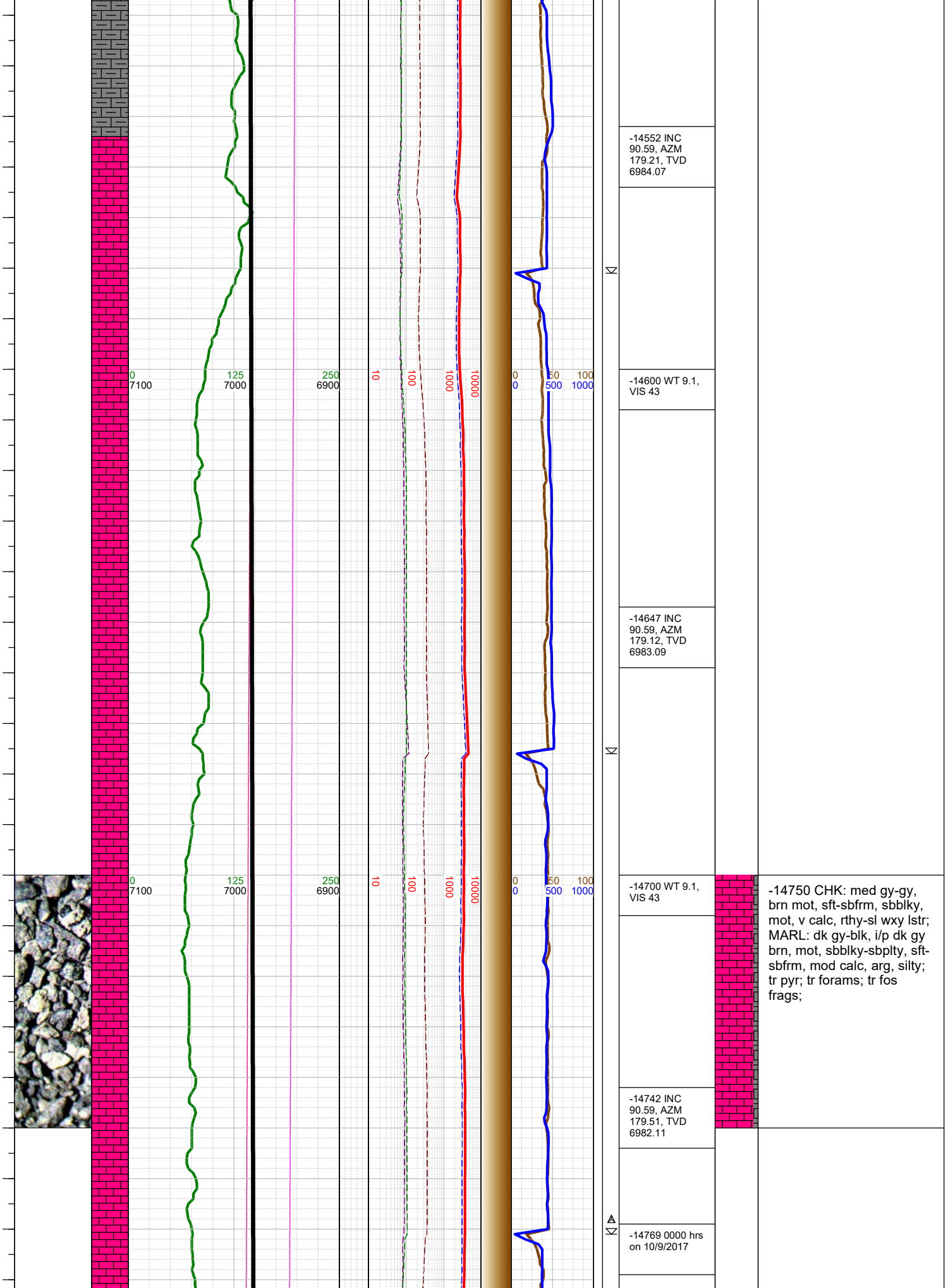
180.62, TVD 6986.29
-14300 WT 9.1, VIS 45
-14362 INC 90.59, AZM 179.21, TVD 6985.79
-14400 WT 9.1, VIS 45
-14457 INC 90.45, AZM 179.78, TVD 6984.93
-14500 WT 9.1, VIS 45
-14500 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams;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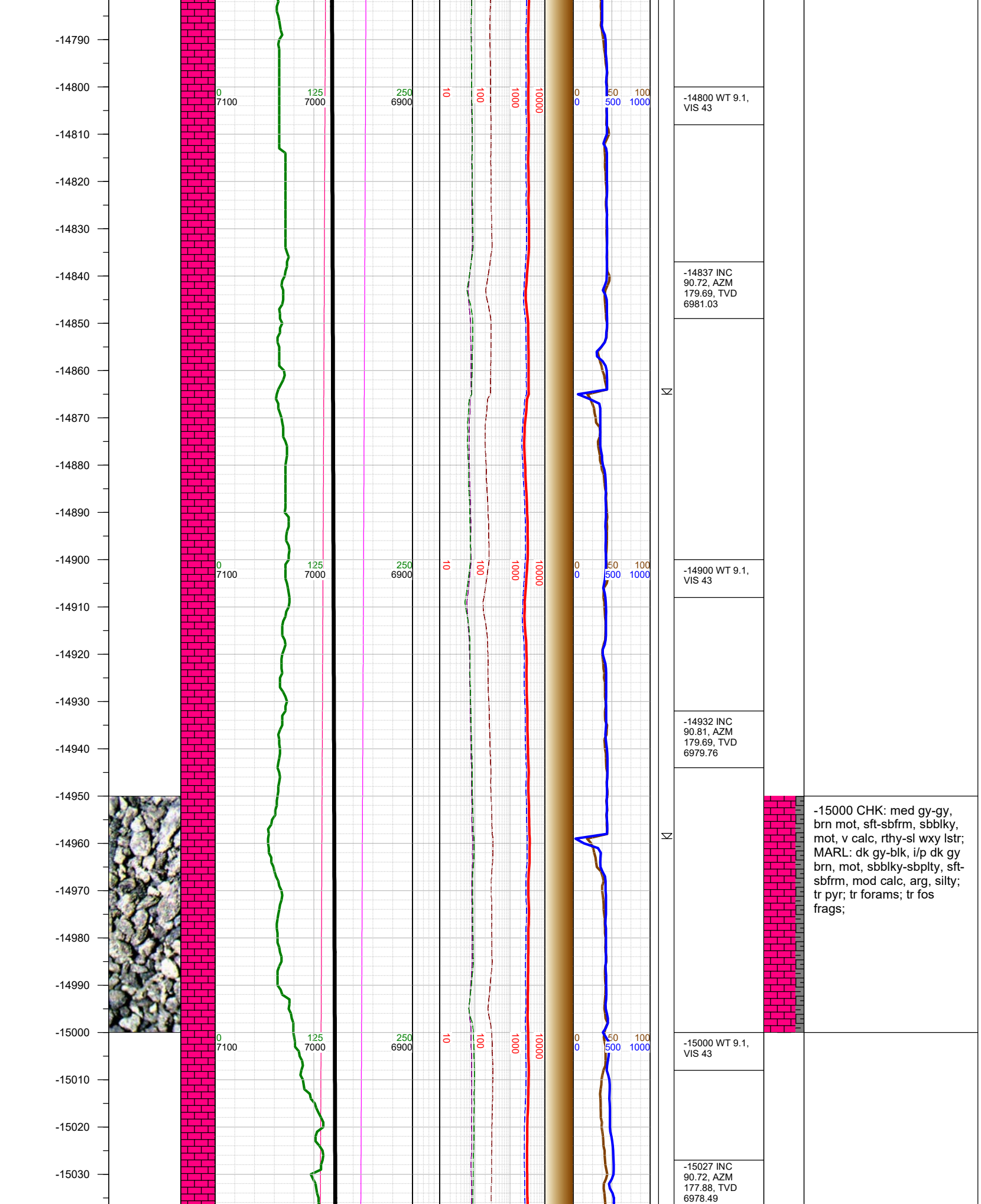
-14552 INC 90.59, AZM 179.21, TVD 6984.07
-14600 WT 9.1, VIS 43
-14647 INC 90.59, AZM 179.12, TVD 6983.09
-14700 WT 9.1, VIS 43
-14742 INC 90.59, AZM 179.51, TVD 6982.11
-14769 0000 hrs on 10/9/2017
-14750 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;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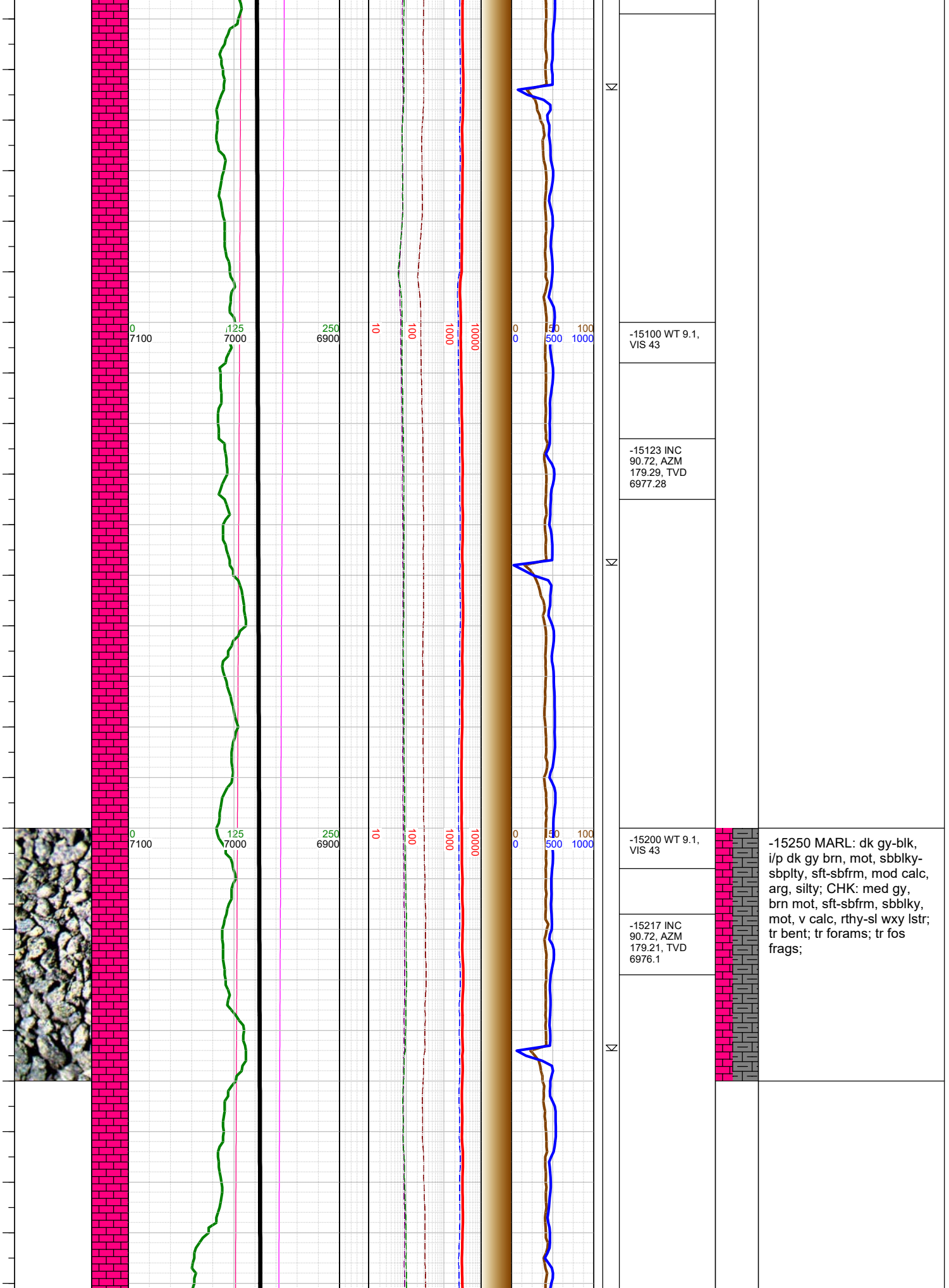
-14800 WT 9.1, VIS 43
-14837 INC 90.72, AZM 179.69, TVD 6981.03
-14900 WT 9.1, VIS 43
-14932 INC 90.81, AZM 179.69, TVD 6979.76
-15000 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;
-15000 WT 9.1, VIS 43
-15027 INC 90.72, AZM 177.88, TVD 6978.49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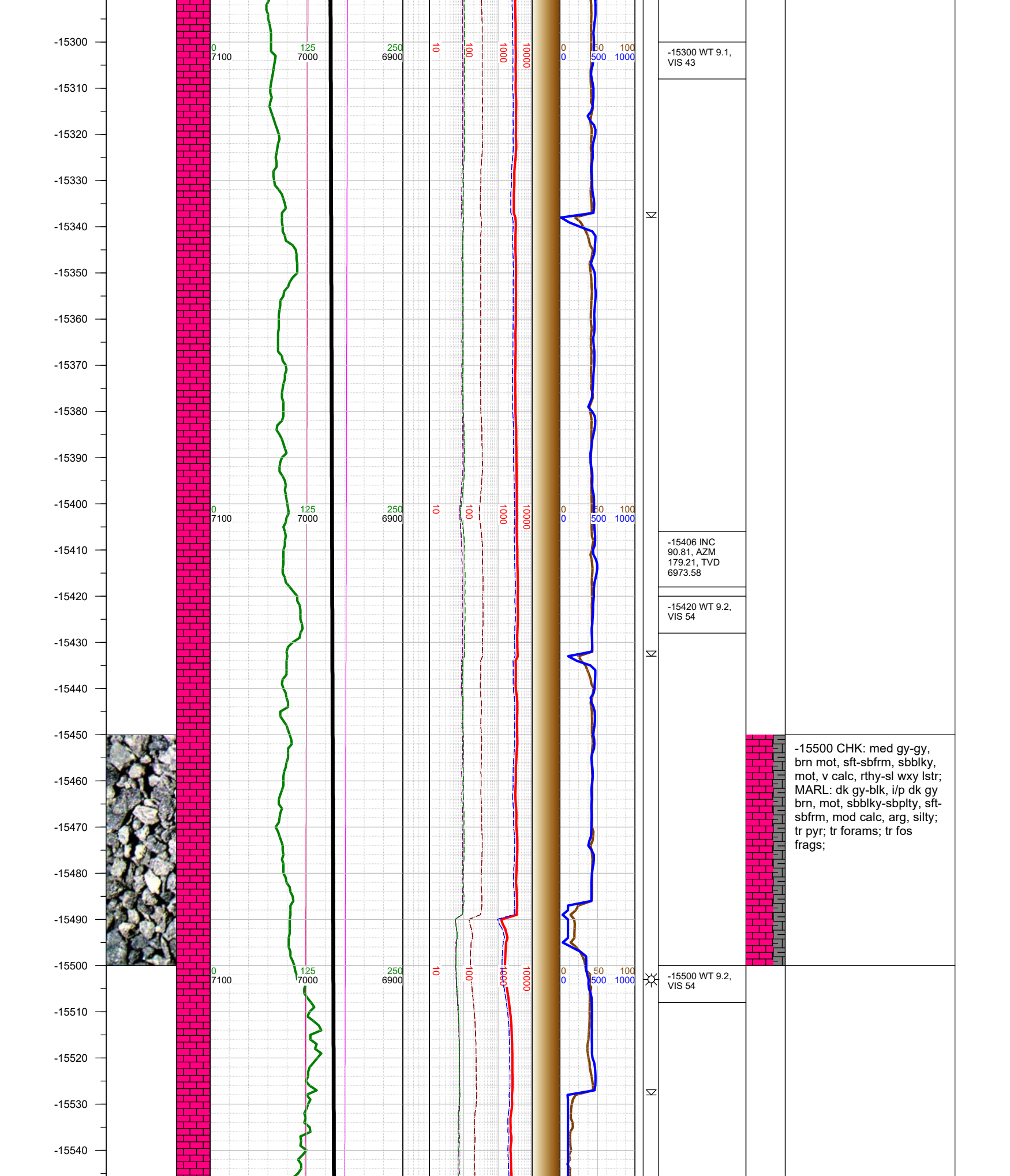
-15100 WT 9.1, VIS 43
-15123 INC 90.72, AZM 179.29, TVD 6977.28
-15200 WT 9.1, VIS 43
-15217 INC 90.72, AZM 179.21, TVD 6976.1
-15250 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; tr bent; tr forams; tr fos frags;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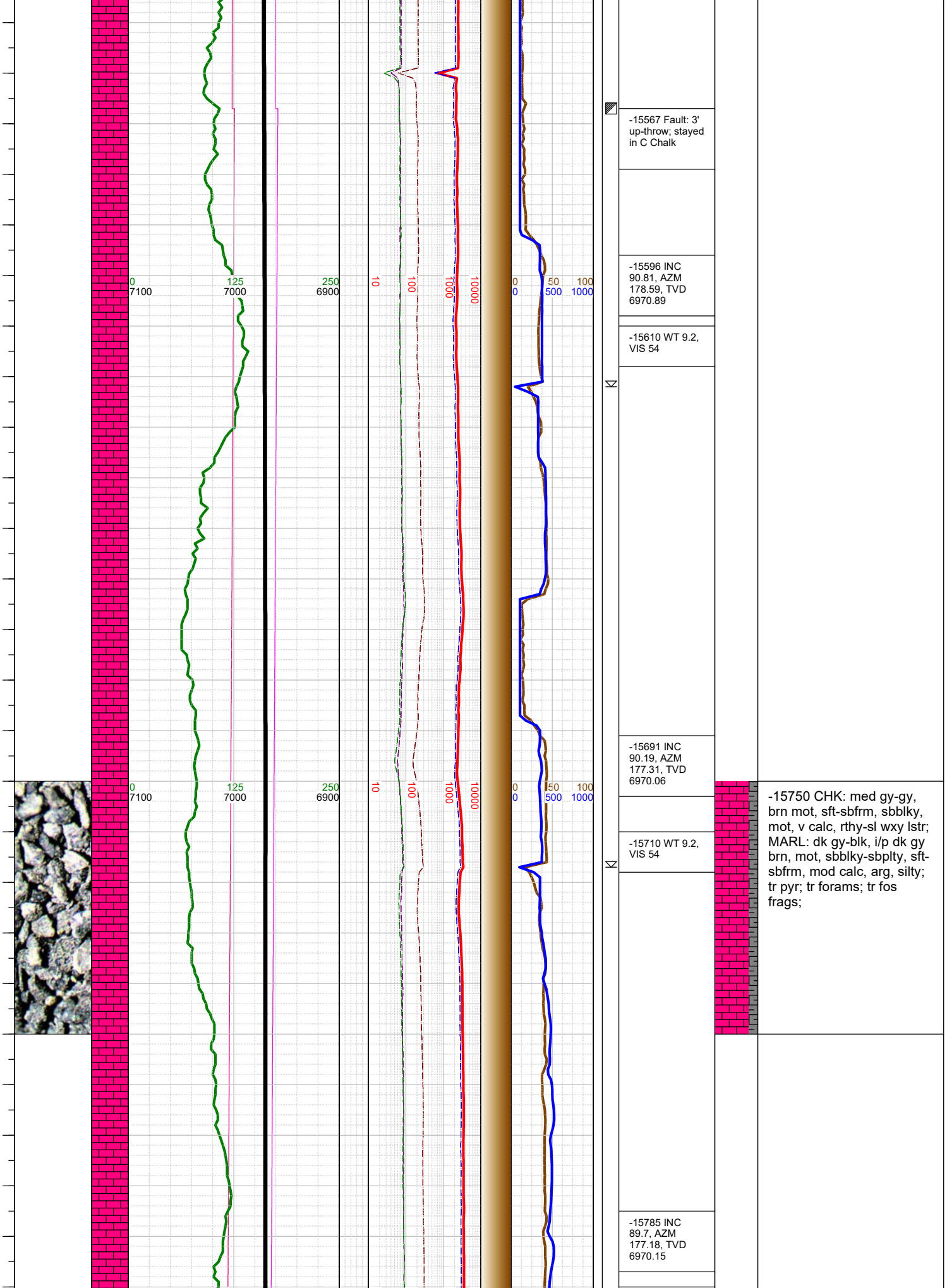
-15300 WT 9.1, VIS 43
-15406 INC 90.81, AZM 179.21, TVD 6973.58
-15420 WT 9.2, VIS 54
-15500 WT 9.2, VIS 54
-15500 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;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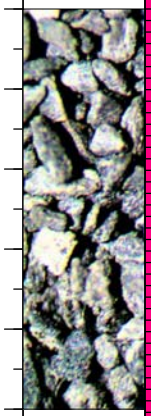
-15567 Fault: 3' up-throw; stayed in C Chalk
-15596 INC 90.81, AZM 178.59, TVD 6970.89
-15610 WT 9.2, VIS 54
-15691 INC 90.19, AZM 177.31, TVD 6970.06
-15710 WT 9.2, VIS 54
-15750 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;
-15785 INC 89.7, AZM 177.18, TVD 6970.15

-15800 WT 9.2, VIS 52

-15879 INC 89.88, AZM 177.49, TVD 6970.5

-15900 WT 9.2, VIS 54



-15974 INC 89.79, AZM 180.48, TVD 6970.77

-16000 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;

-16000 WT 9.2, VIS 54

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-16069 INC 89.88, AZM 180.31, TVD 6971.04

-16100 WT 9.2, VIS 55

-16128 Fault: 18' up-throw; stayed in C Chalk

-16164 INC 89.79, AZM 180.31, TVD 6971.32

-16200 WT 9.2, VIS 55

-16250 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;

-16258 INC 89.7, AZM 180.31, TVD 6971.74

-16300 WT 9.2, VIS 55

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-16353 INC 89.88, AZM 181.81, TVD 6972.08

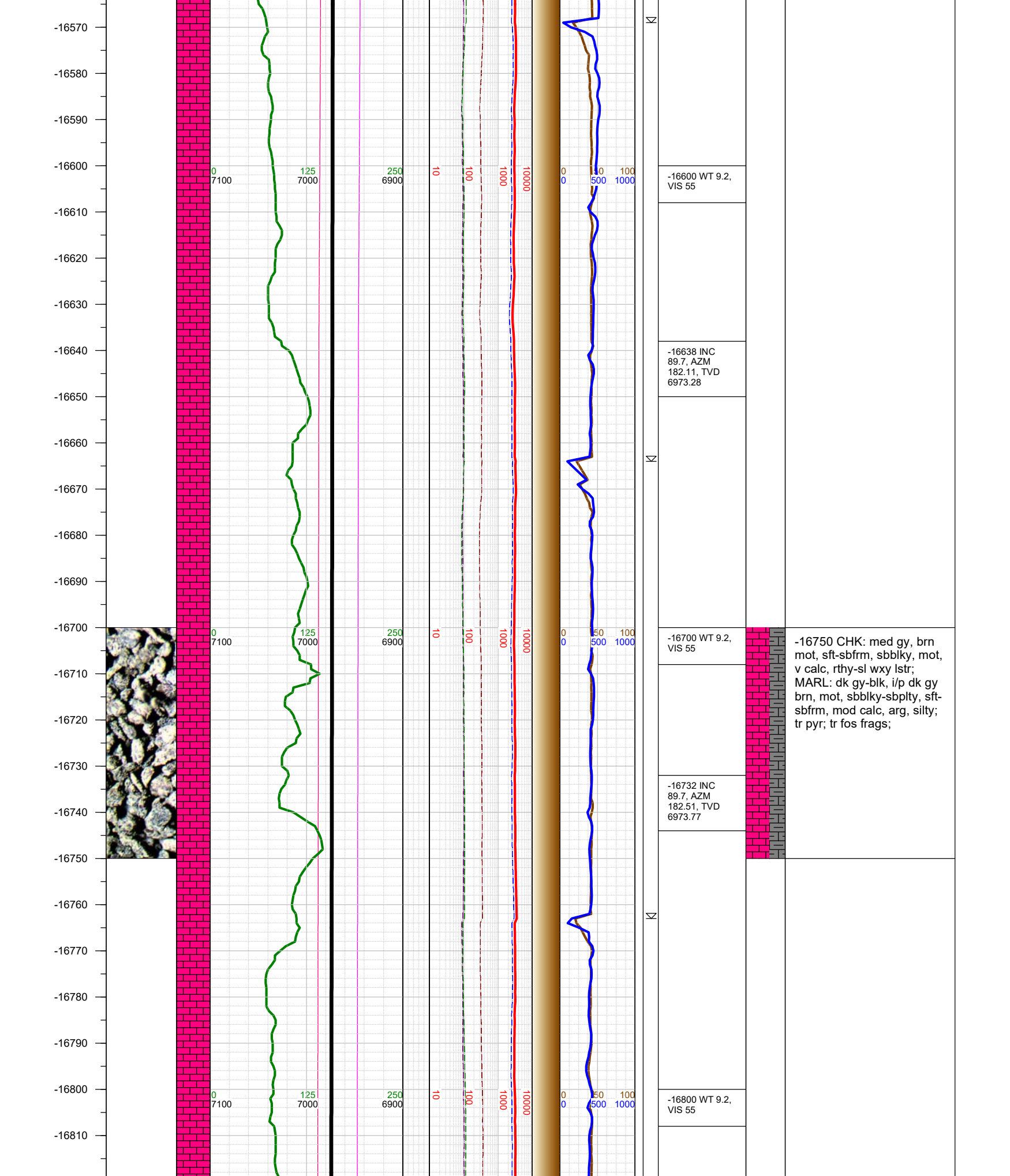
-16400 WT 9.2, VIS 55

-16491 Fault: 18' up-throw; stayed in C Chalk

-16500 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;

-16510 WT 9.2, VIS 55

-16543 INC 89.7, AZM 182.6, TVD 6972.78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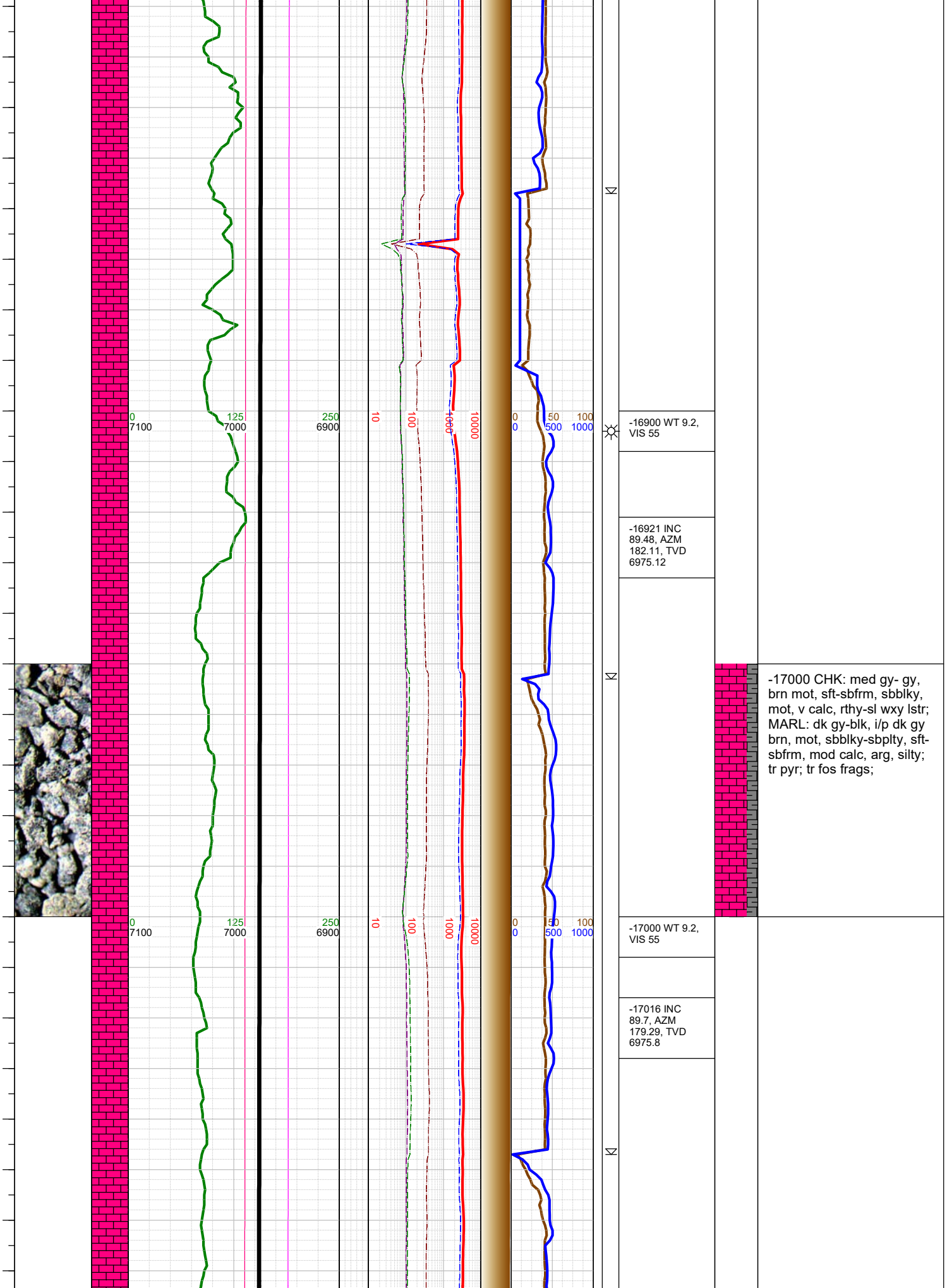
-16600 WT 9.2, VIS 55
-16638 INC 89.7, AZM 182.11, TVD 6973.28
-16700 WT 9.2, VIS 55
-16732 INC 89.7, AZM 182.51, TVD 6973.77
-16800 WT 9.2, VIS 55
-16750 CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr fos frags;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-16900 WT 9.2, VIS 55
-16921 INC 89.48, AZM 182.11, TVD 6975.12
-17000 WT 9.2, VIS 55
-17016 INC 89.7, AZM 179.29, TVD 6975.8
-17000 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr fos frags;

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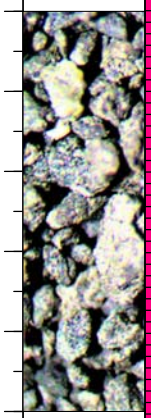
-17100 WT 9.2, VIS 55

-17111 INC 89.62, AZM 178.98, TVD 6976.37



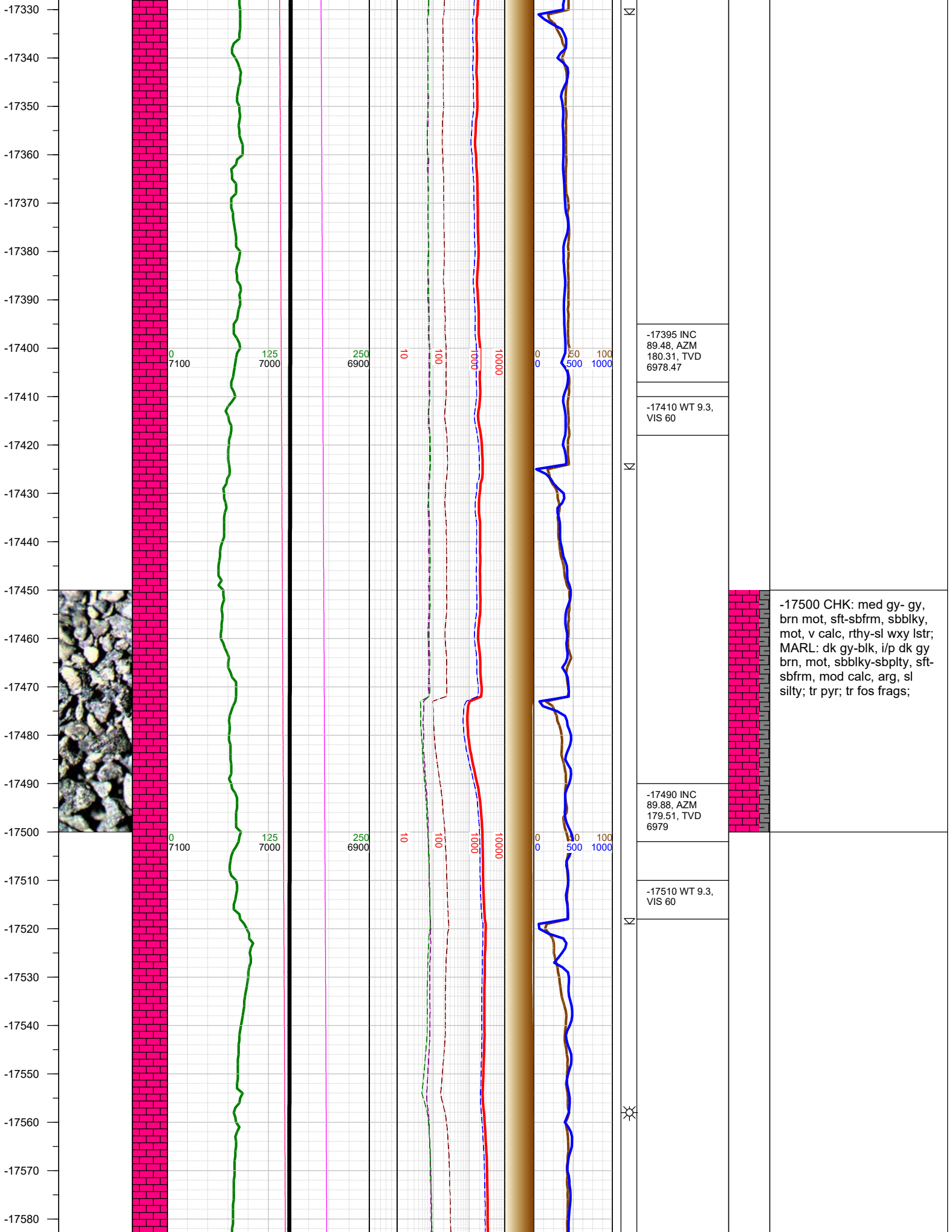
-17206 INC 89.48, AZM 180.79, TVD 6977.11

-17220 WT 9.2, VIS 55

-17250 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, sl silty; tr pyr; tr fos frags;

-17300 INC 89.7, AZM 179.21, TVD 6977.79

-17320 WT 9.2, VIS 55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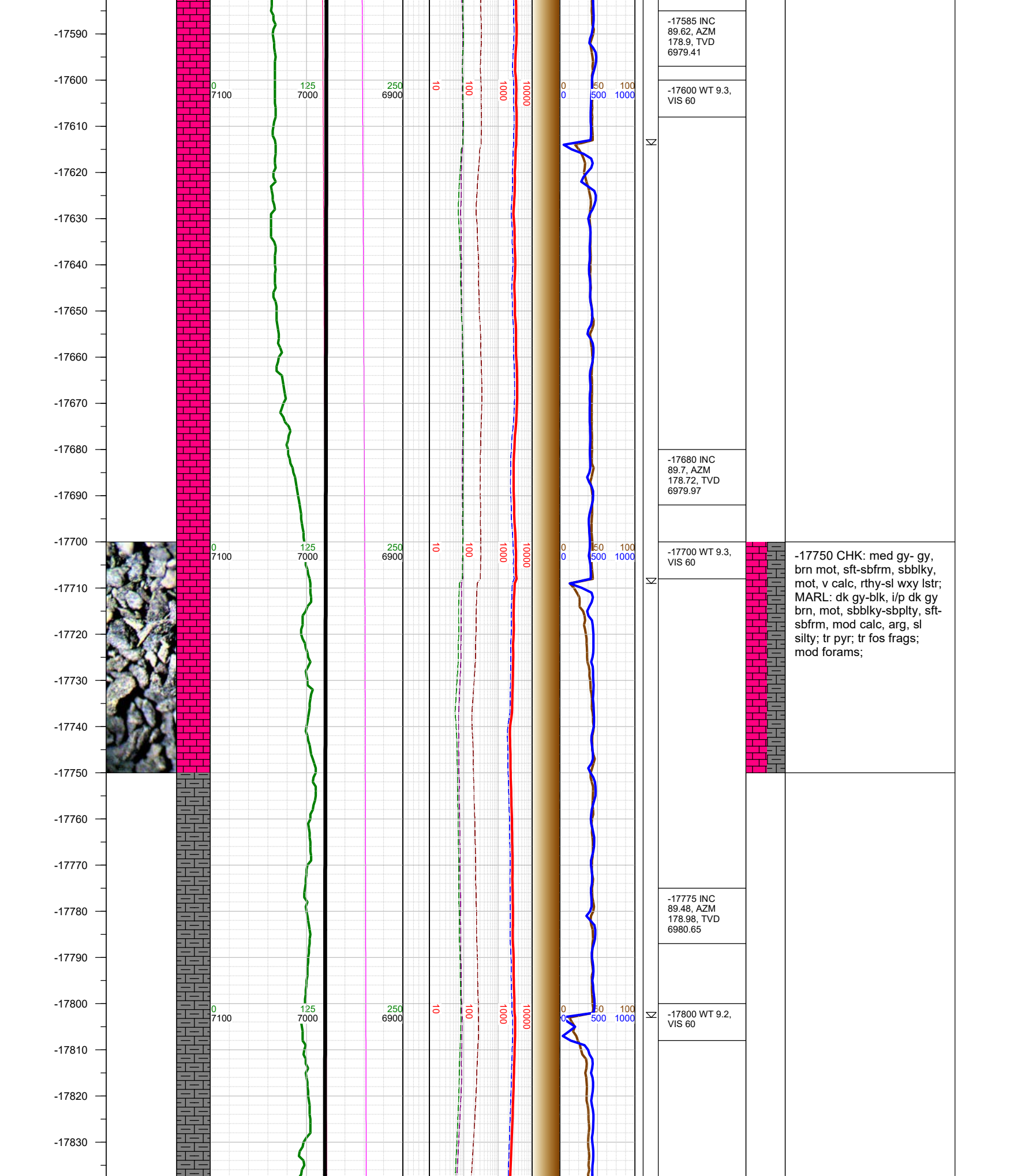
-17490 INC 89.88, AZM 179.51, TVD 6979
-17510 WT 9.3, VIS 60
-17500 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, sl silty; tr pyr; tr fos frags;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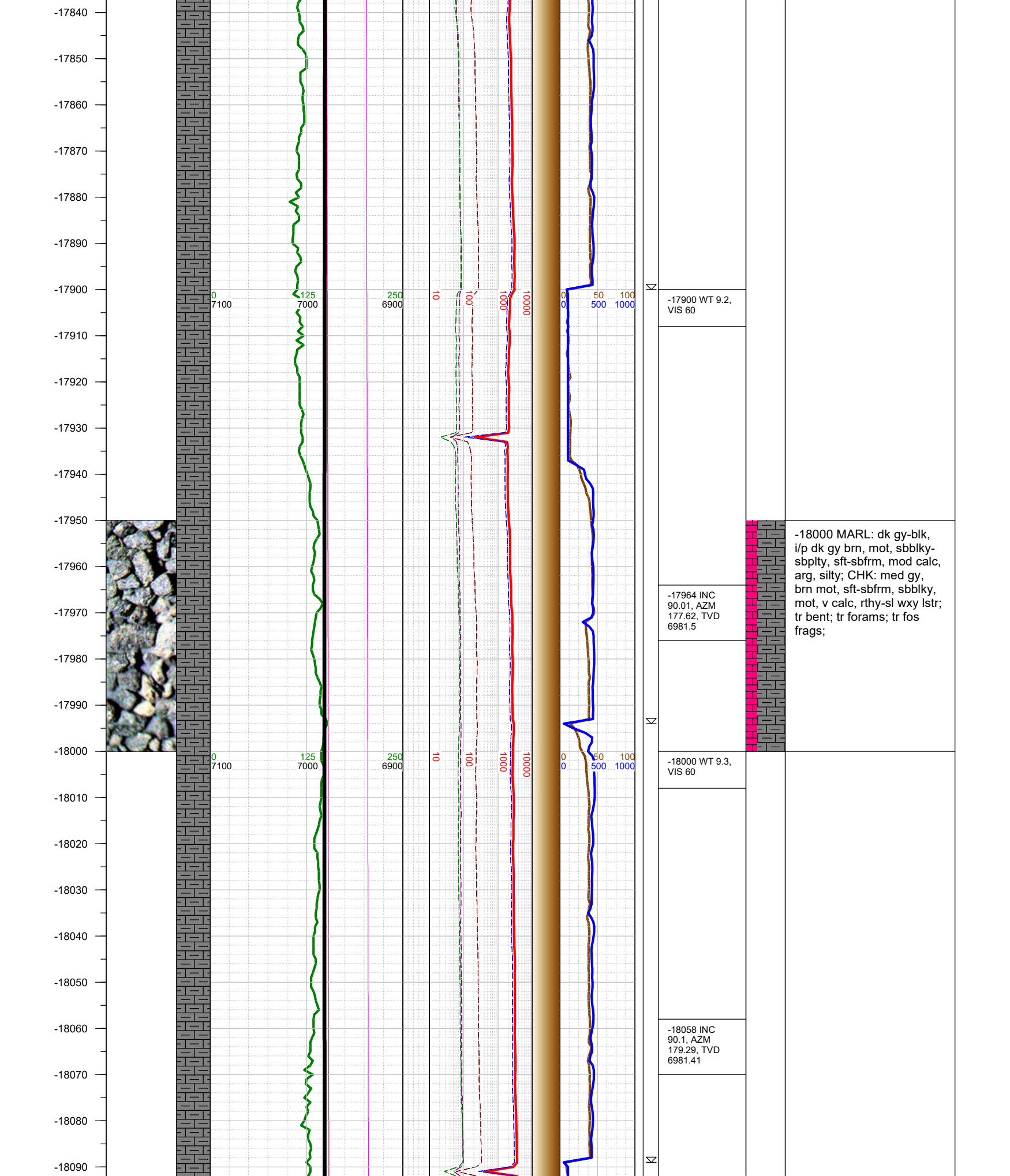
-17585 INC 89.62, AZM 178.9, TVD 6979.41
-17600 WT 9.3, VIS 60
-17680 INC 89.7, AZM 178.72, TVD 6979.97
-17700 WT 9.3, VIS 60
-17775 INC 89.48, AZM 178.98, TVD 6980.65
-17800 WT 9.2, VIS 60
-17750 CHK: med gy- gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, sl silty; tr pyr; tr fos frags; mod forams;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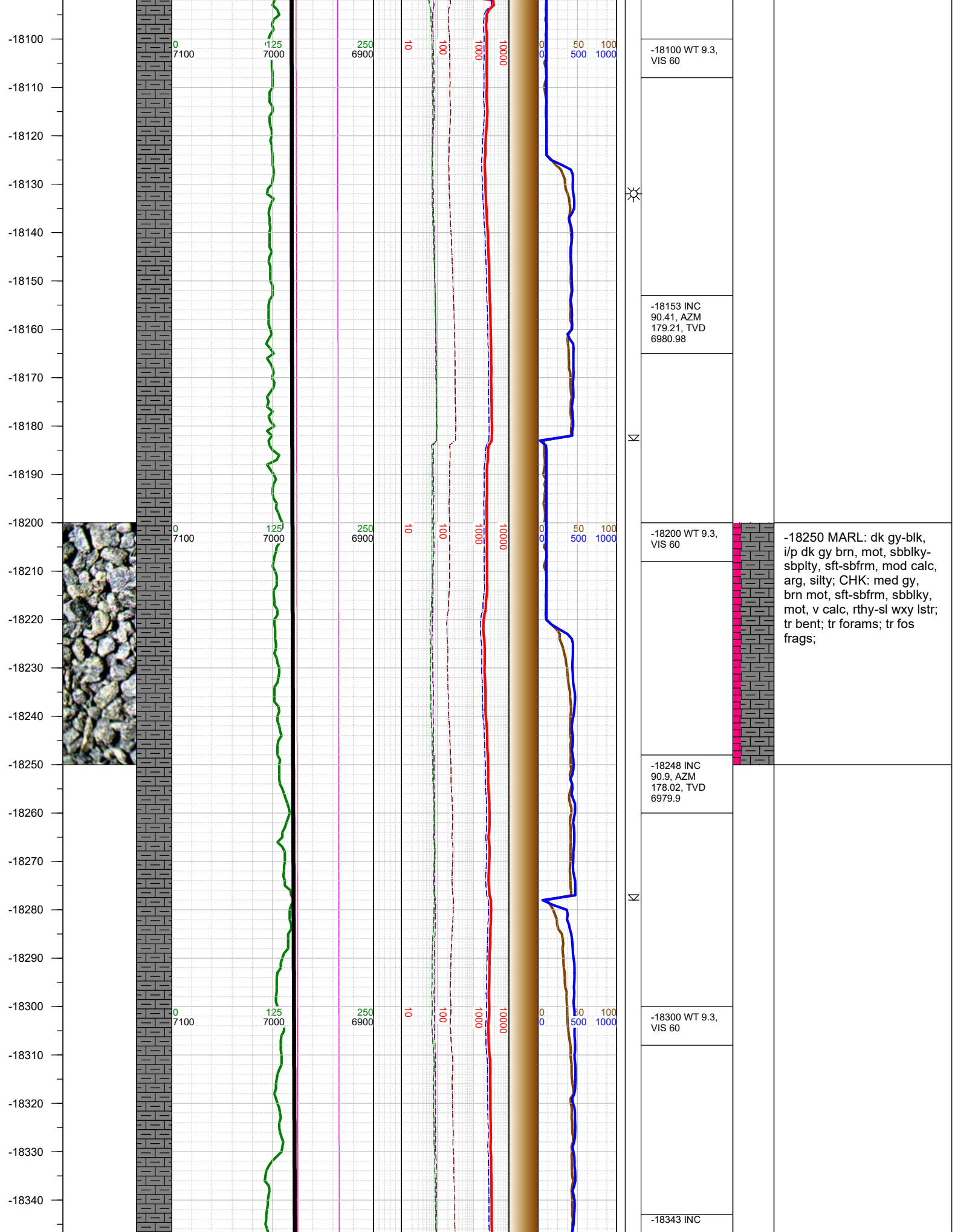
-17964 INC 90.01, AZM 177.62, TVD 6981.5
-18000 WT 9.3, VIS 60
-18058 INC 90.1, AZM 179.29, TVD 6981.41
-18000 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; tr bent; tr forams; tr fos frags;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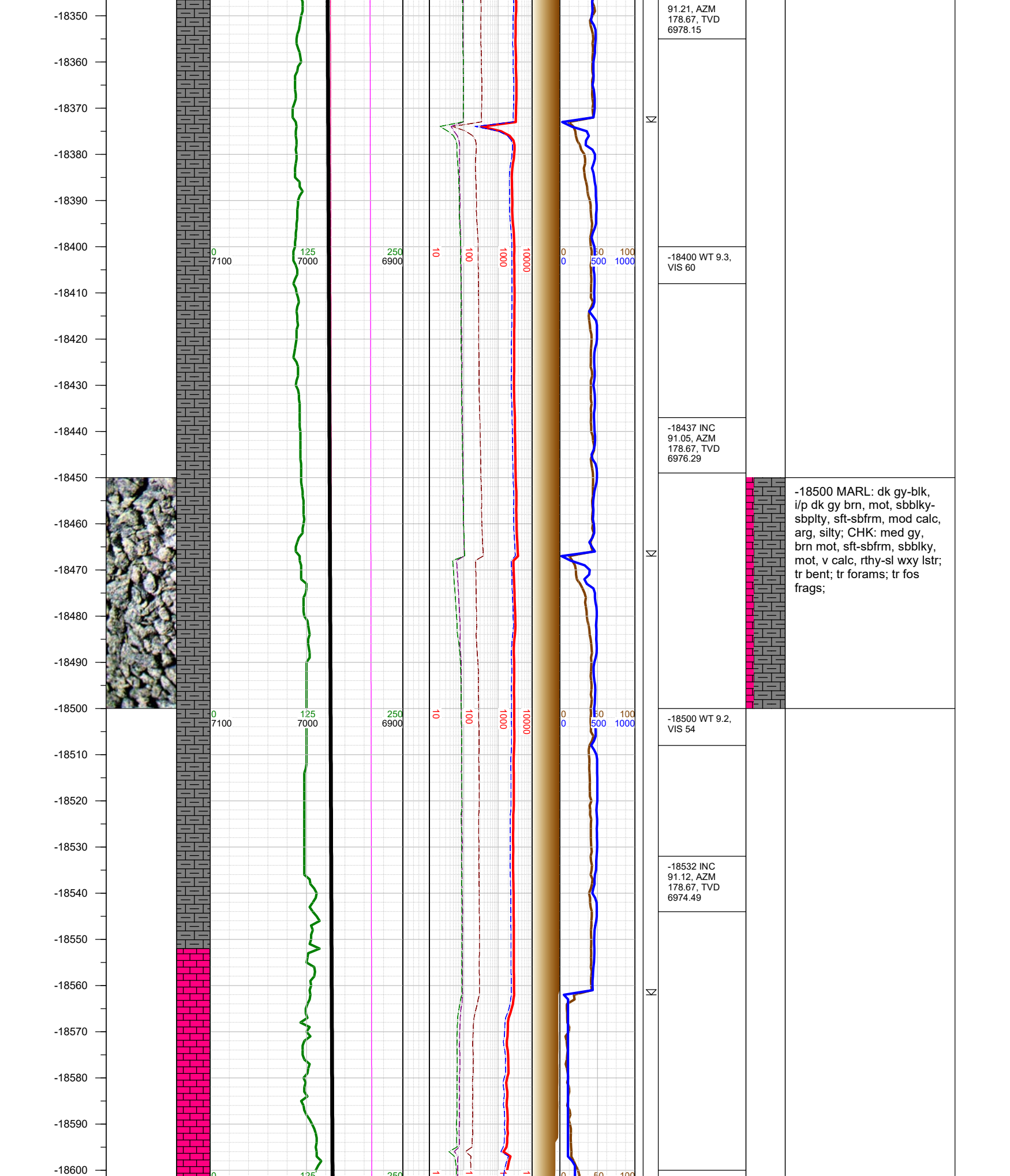
-18100 WT 9.3, VIS 60
-18153 INC 90.41, AZM 179.21, TVD 6980.98
-18200 WT 9.3, VIS 60
-18248 INC 90.9, AZM 178.02, TVD 6979.9
-18300 WT 9.3, VIS 60
-18343 INC
-18250 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; tr bent; tr forams; tr fos frags;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VIS 60
-18437 INC
91.05, AZM
178.67, TVD
6976.29
-18500 WT 9.2,
VIS 54
-18532 INC
91.12, AZM
178.67, TVD
6974.49
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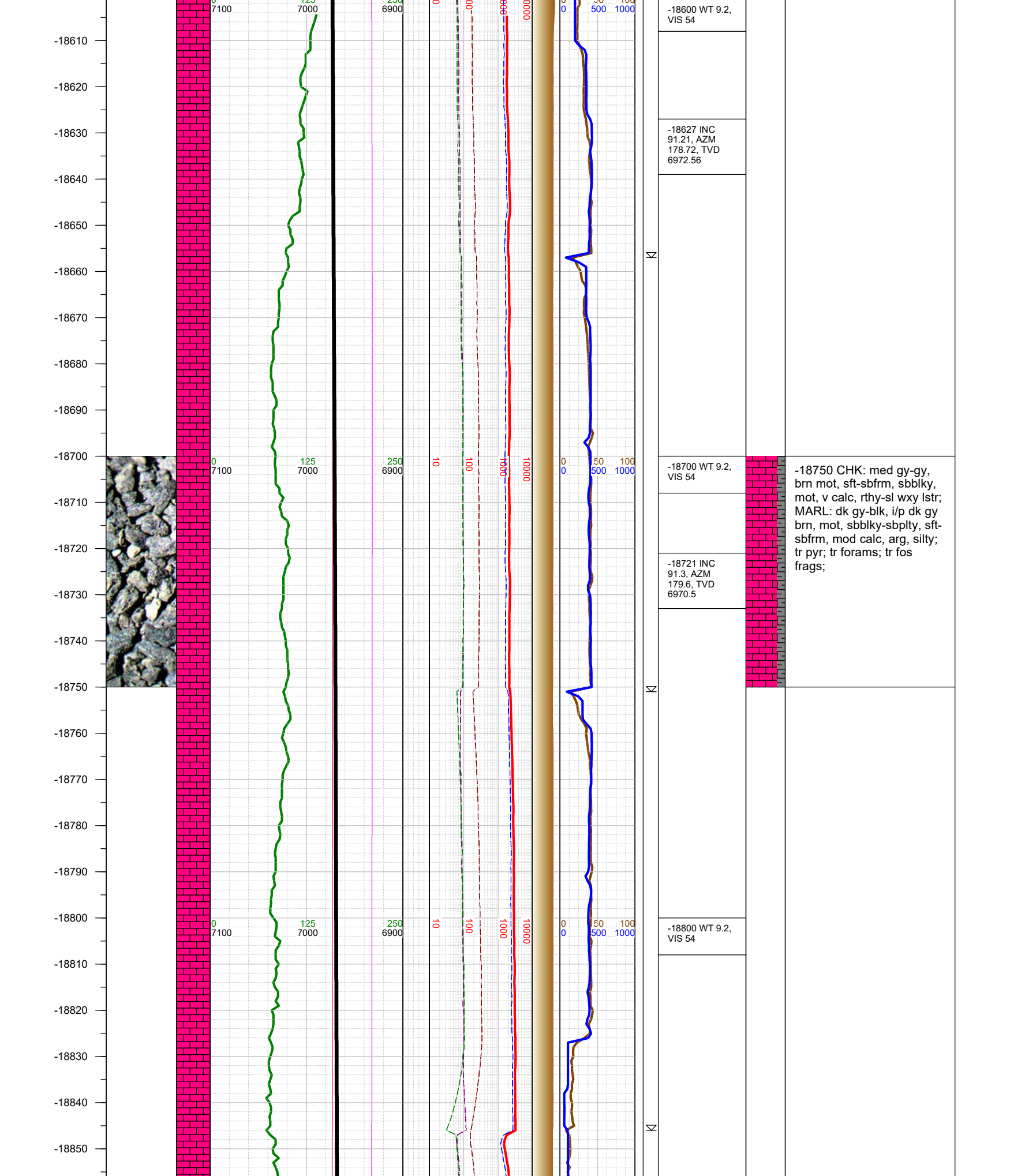
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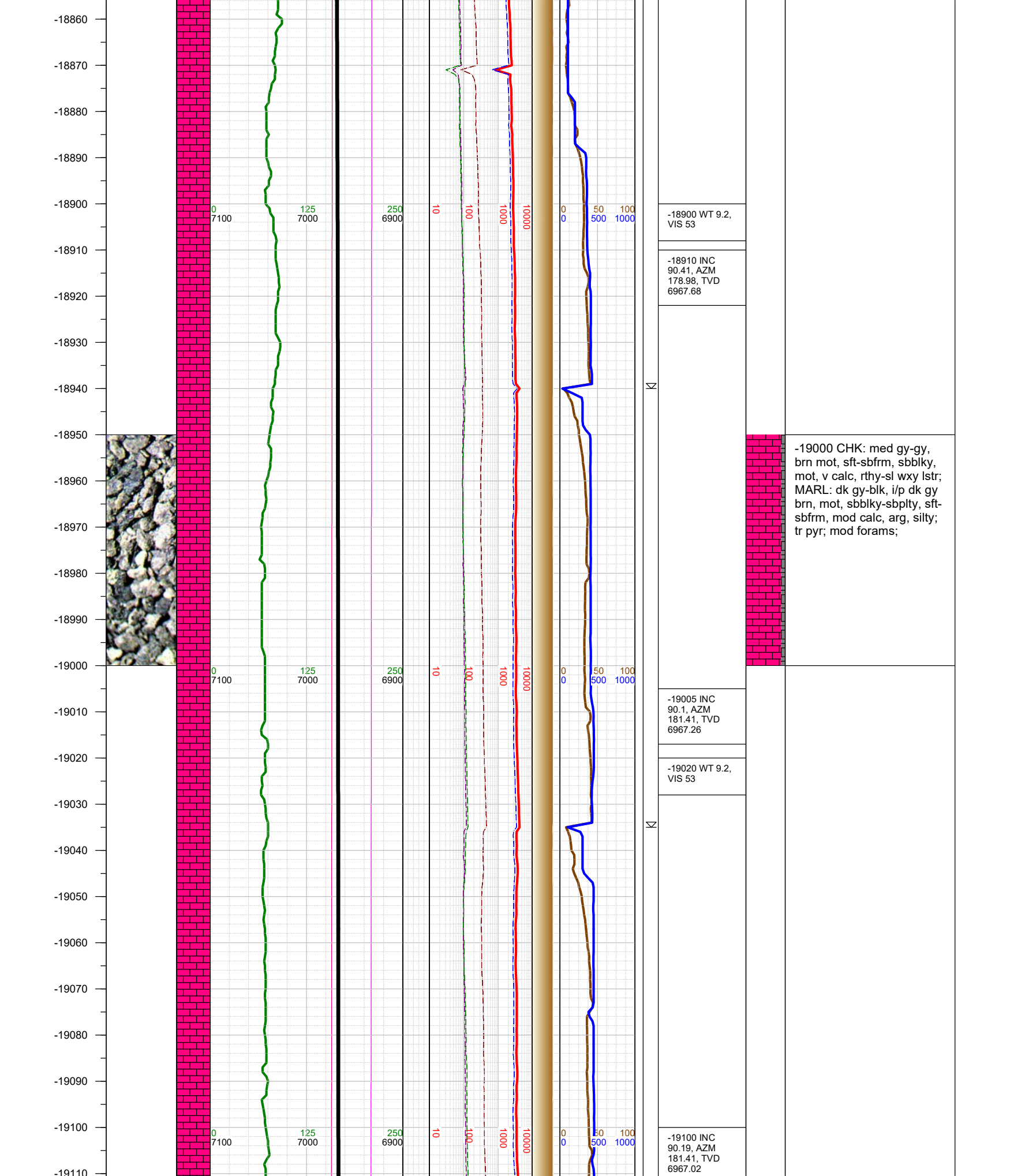
-18700 WT 9.2, VIS 54
-18721 INC 91.3, AZM 179.6, TVD 6970.5
-18800 WT 9.2, VIS 54
-18750 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;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-18910 INC 90.41, AZM 178.98, TVD 6967.68
-19000 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams;
-19005 INC 90.1, AZM 181.41, TVD 6967.26
-19020 WT 9.2, VIS 53
-19100 INC 90.19, AZM 181.41, TVD 6967.02

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0 7100 125 7000 250 6900 10 100 1000 10000 0 0 50 500 100 1000

-19120 WT 9.2, VIS 53

-19194 INC 90.1, AZM 181.41, TVD 6966.78

-19210 WT 9.2, VIS 53

-19289 INC 90.01, AZM 181.5, TVD 6966.69

-19310 WT 9.2, VIS 53

-19250 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams; tr fos frags;

-19370
-19380
-19390
-19400
-19410
-19420
-19430
-19440
-19450
-19460
-19470
-19480
-19490
-19500
-19510
-19520
-19530
-19540
-19550
-19560
-19570
-19580
-19590
-19600
-19610
-19620

0 7100 125 7000 250 6900 10 100 1000 10000 0 0 50 500 100 1000

-19383 INC 90.01, AZM 181.58, TVD 6966.68

-19400 WT 9.2, VIS 53

-19478 INC 90.1, AZM 181.89, TVD 6966.58

-19500 WT 9.2, VIS 53

-19572 INC 89.88, AZM 182.38, TVD 6966.6

-19600 WT 9.2, VIS 53

-19500 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; mod forams;

-19620
-19630
-19640
-19650
-19660
-19670
-19680
-19690
-19700
-19710
-19720
-19730
-19740
-19750
-19760
-19770
-19780
-19790
-19800
-19810
-19820
-19830
-19840
-19850
-19860
-19870

0 7100 125 7000 250 6900 10 100 1000 10000 0 0 50 500 100 1000

0 7100 125 7000 250 6900 10 100 1000 10000 0 0 50 500 100 1000

KI

KI

-19667 INC 90.19, AZM 181.81, TVD 6966.54

-19700 WT 9.2, VIS 53

-19750 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;

-19762 INC 89.88, AZM 181.19, TVD 6966.48

-19800 WT 9.2, VIS 53

-19856 INC 90.01, AZM 181.72, TVD 6966.57

-19900 WT 9.2, VIS 53

-19951 INC 90.01, AZM 181.32, TVD 6966.56

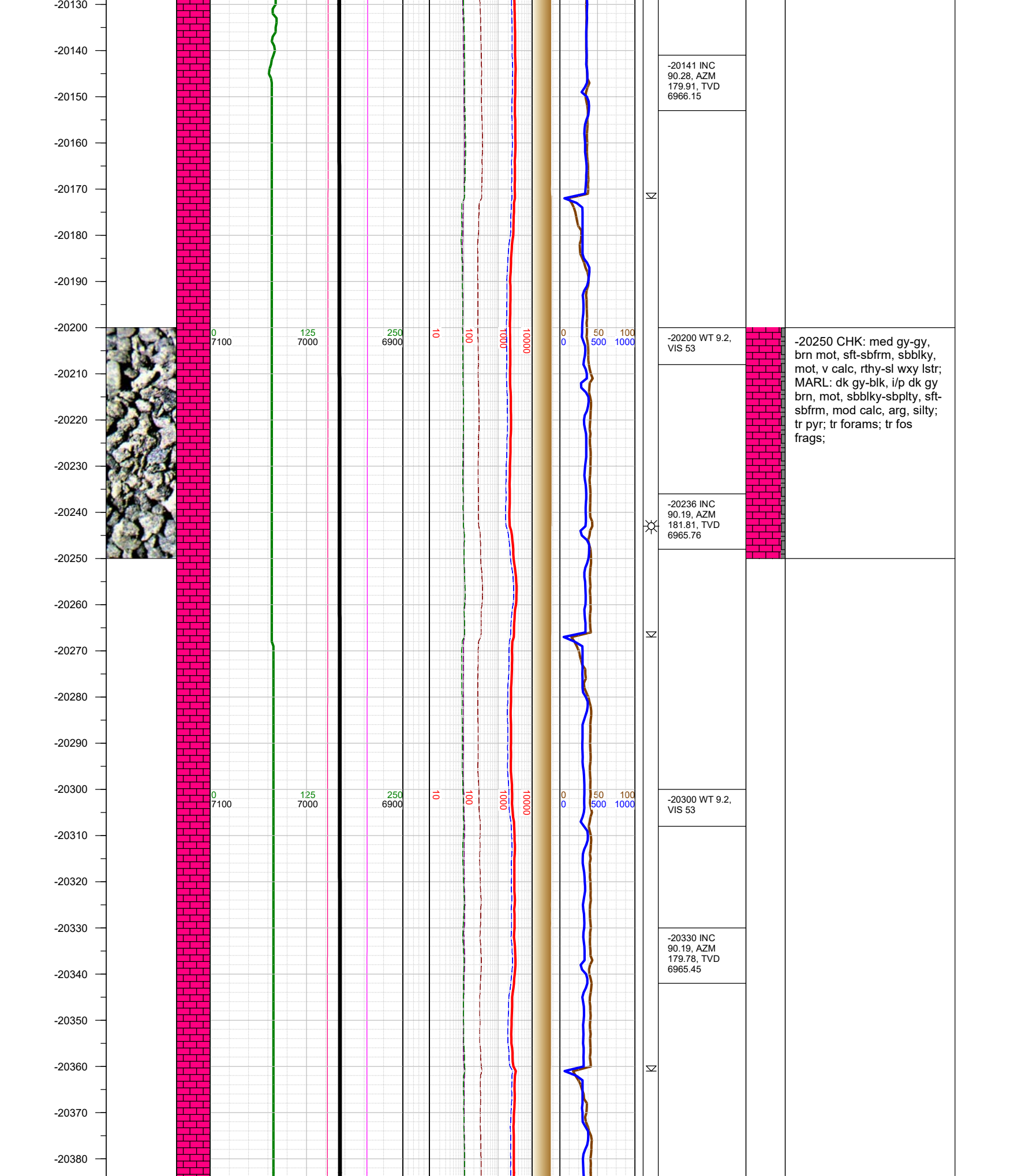
-19980 0000 hrs on 10/10/2017

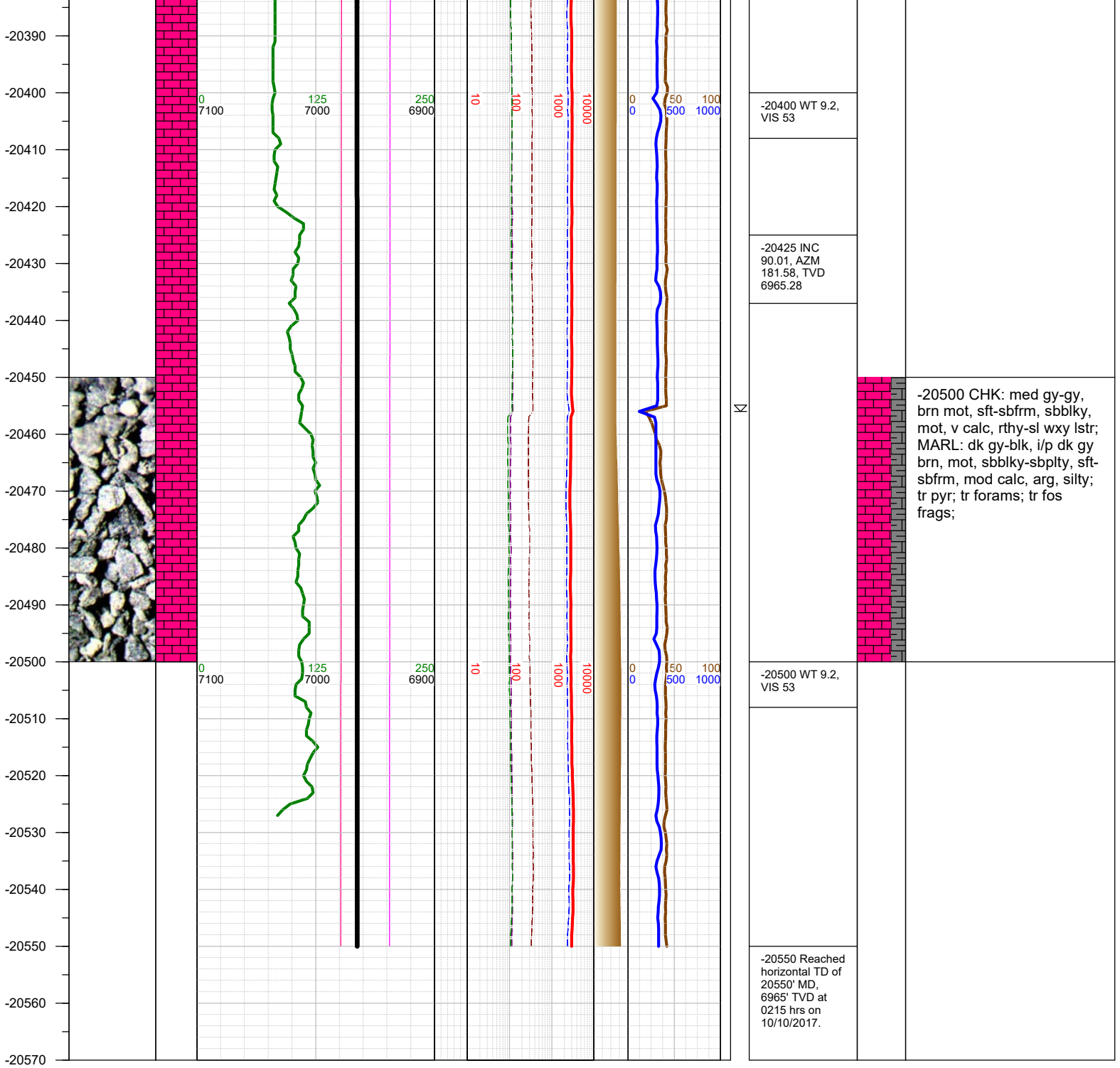
-20000 WT 9.2, VIS 53

-20046 INC 90.1, AZM 181.01, TVD 6966.47

-20100 WT 9.2, VIS 53

-20000 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;


-20130
-20140
-20150
-20160
-20170
-20180
-20190
-20200
-20210
-20220
-20230
-20240
-20250
-20260
-20270
-20280
-20290
-20300
-20310
-20320
-20330
-20340
-20350
-20360
-20370
-20380
0
7100
125
7000
250
6900
10
100
1000
10000
0
0
50
500
100
1000
-20141 INC 90.28, AZM 179.91, TVD 6966.15
-20200 WT 9.2, VIS 53
-20236 INC 90.19, AZM 181.81, TVD 6965.76
-20300 WT 9.2, VIS 53
-20330 INC 90.19, AZM 179.78, TVD 6965.45
-20250 CHK: med gy-gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; tr pyr; tr forams; tr fos frags;



TOTAL DEPTH = 20550'

Thank you for using Earth Science Agency