

DIVERSIFIED WELL LOGGING INC

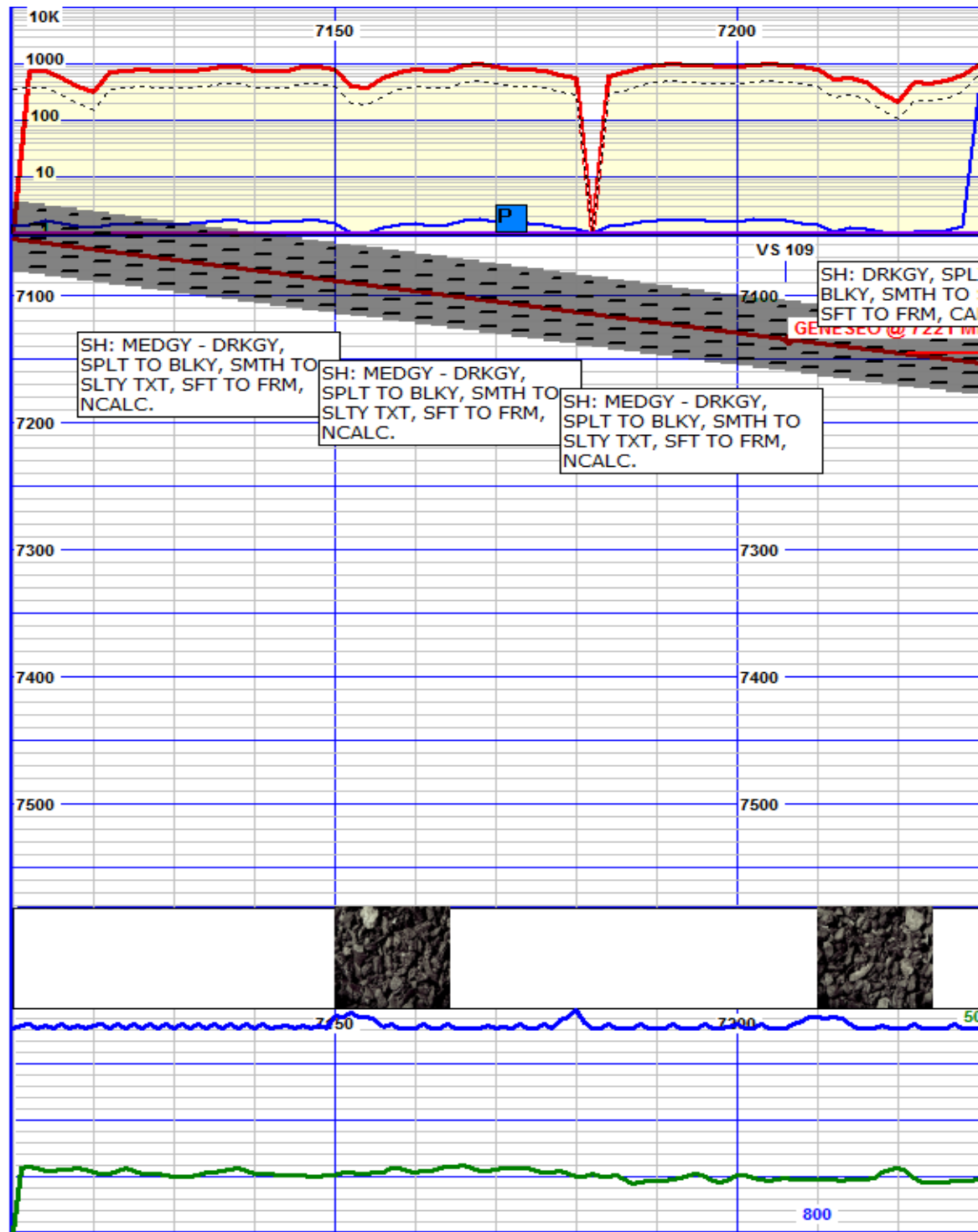
COMPANY: Northeast Natural Resources
 WELL: MIP 3H
 LOCATION: Morgantown
 COUNTY: Monongalia STATE: WV
 GL: KB:
 Start Date 09/17/2015 End Date 9/22/2015
 Start Depth 6228 End Depth 13874
 API NO: 4706101707
 FILE: MIP_3H.mlw
 LOGGERS: Chuck Hubbard / James Liles/ Jonathan Leya
 GEOLOGIST: Emily Jordon

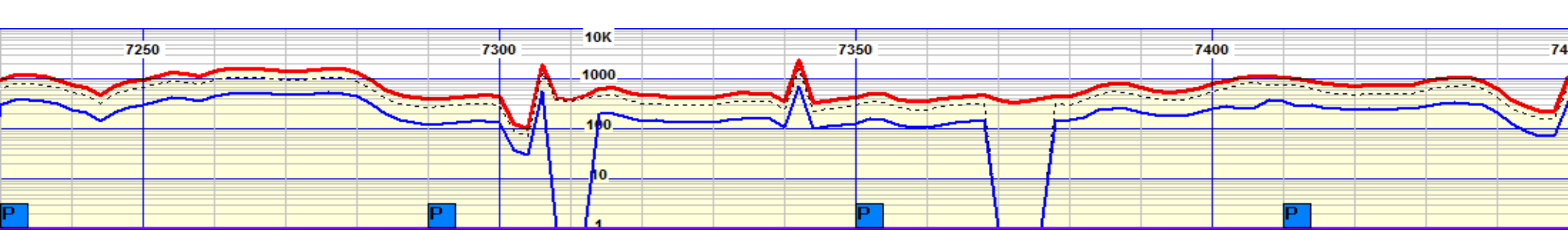
- | | | | | |
|-----------|--------------|--------------|-------------|-----------|
| Sand | Dolo | Lime | Chert | Anhydrite |
| Shale | Carb Sh | Salt | Granite | Siltstone |
| Coal | Bentonite | Granite Wash | Quartz Wash | |
| Carb Wash | Conglomerate | Cement | | |

- ACCESSORIES
- | | | | | |
|---------|--------|---------|---------|-----------|
| GLAUC'C | PYRITE | FOSSILS | OOLITES | FRACTURES |
|---------|--------|---------|---------|-----------|

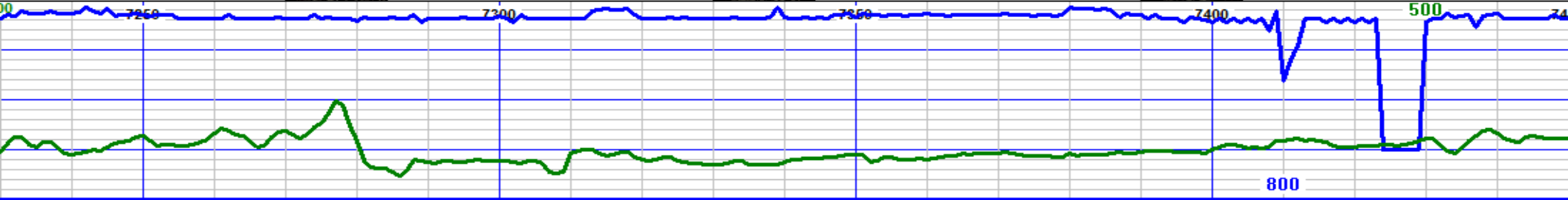
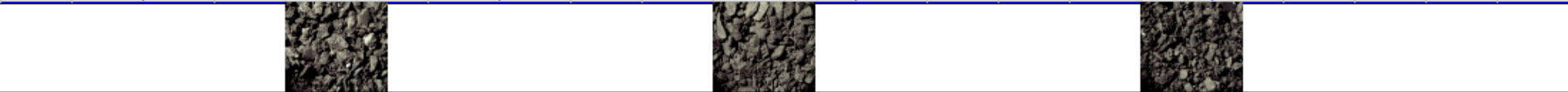
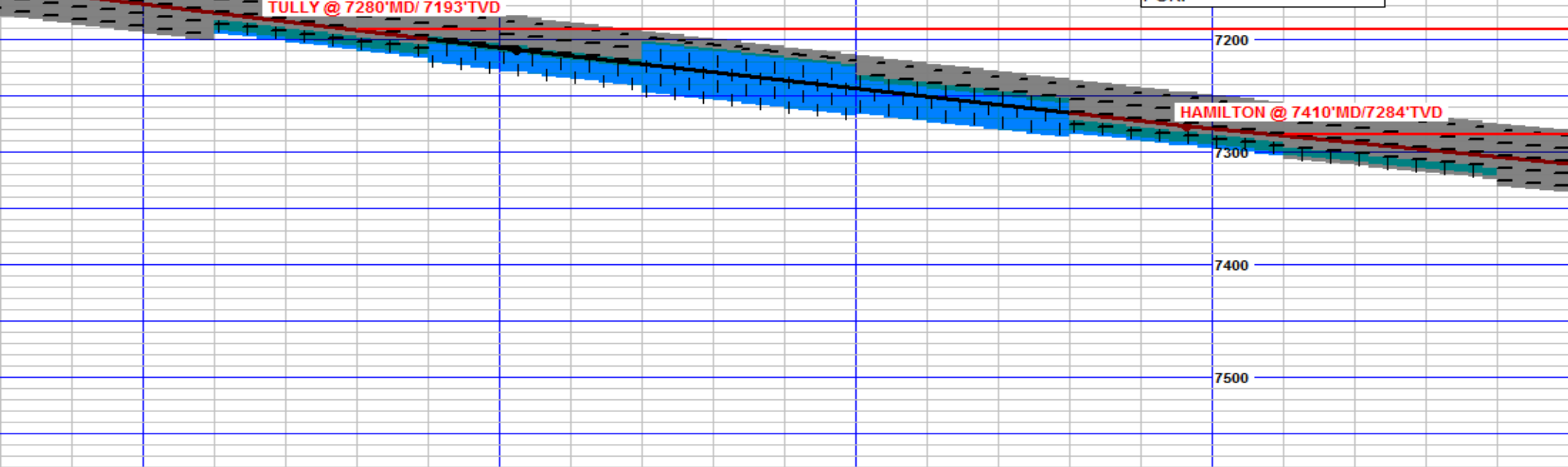
TOT ——— 1 to 10000
 C1
 C2 ———
 C3
 IC4 ———
 NC4 ———

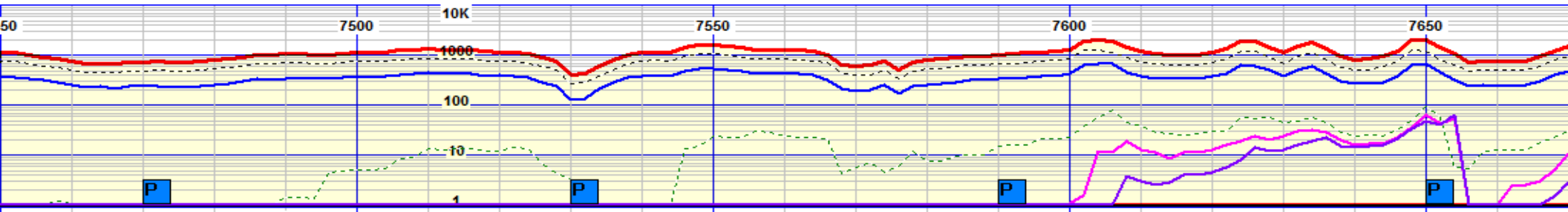
Horz ———
 Rop ——— 1 to 800
 Gamma ——— 1 to 500



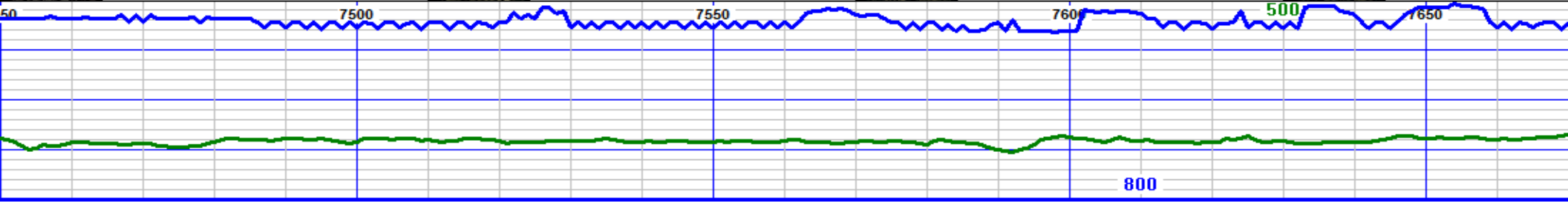
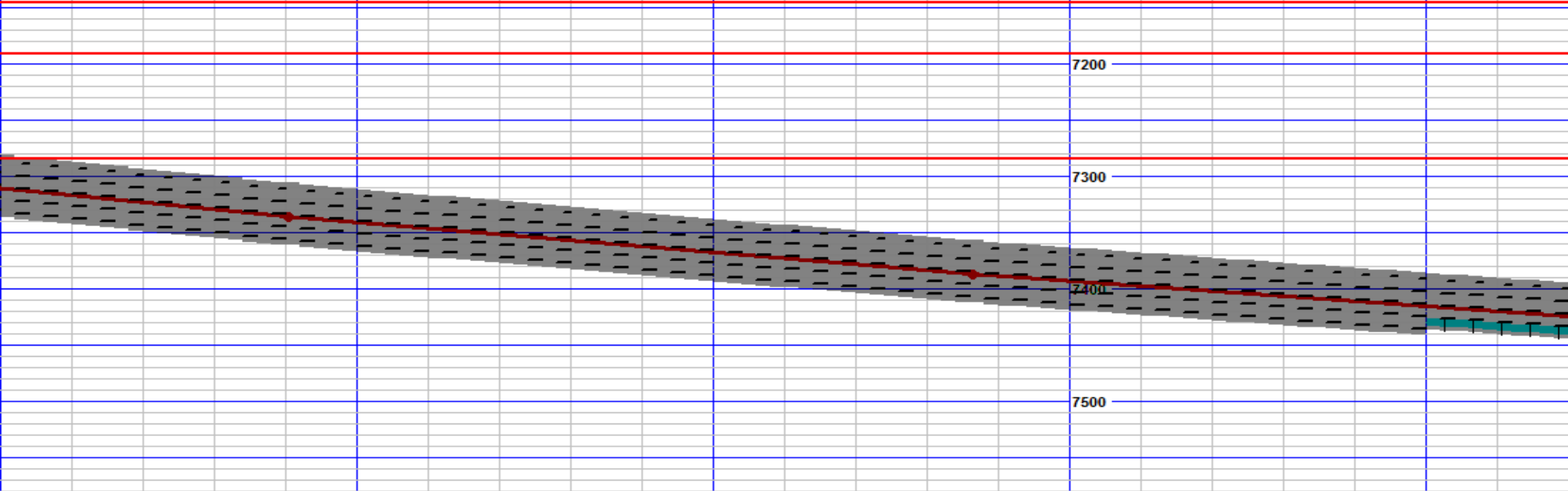


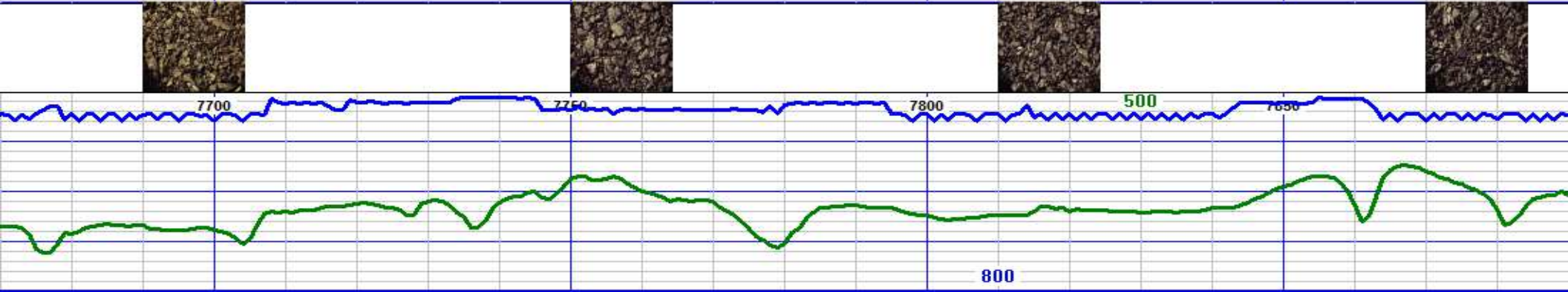
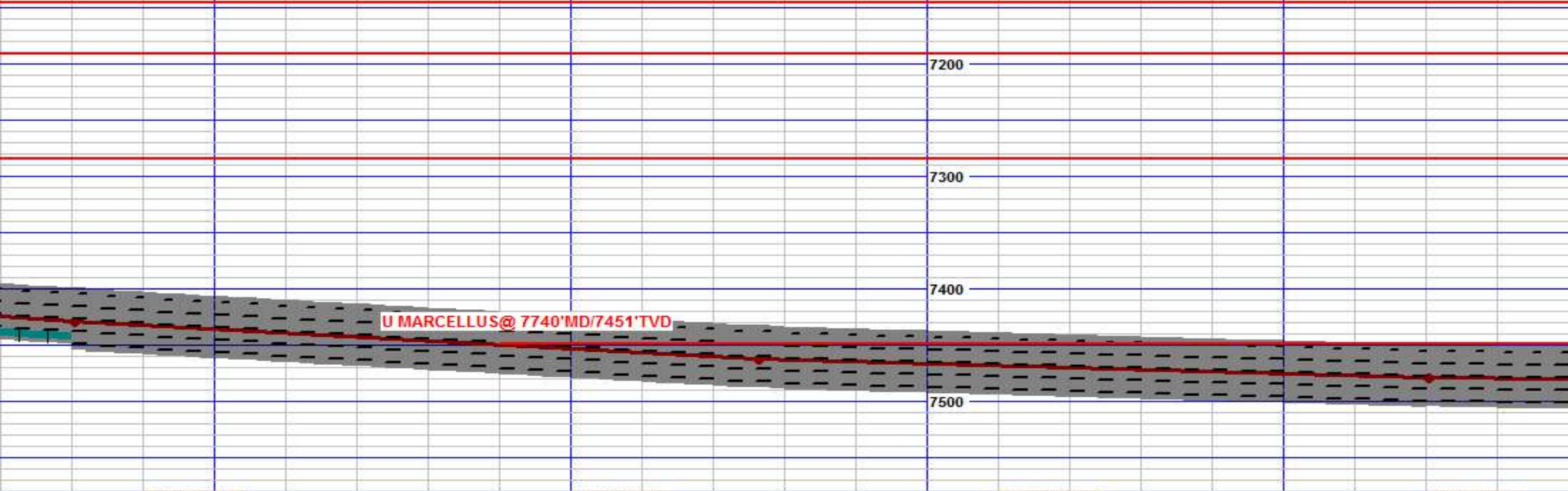
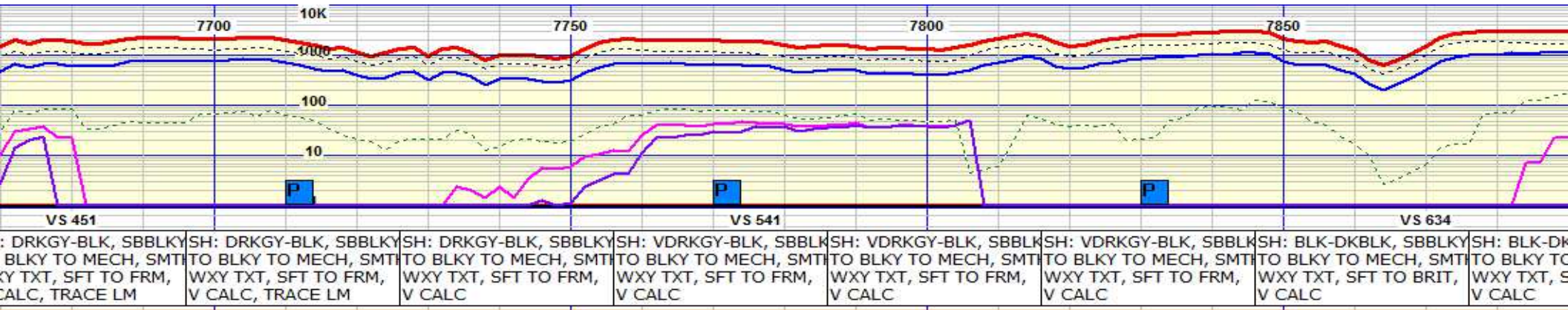
T TO SLTY TXT LC.	SH: DRKGY, SPLT TO BLKY, SMTH TO SLTY TX SFT TO FRM, CALC.	SH: DRKGY, SPLT TO BLKY, SMTH TO SLTY TX SFT TO FRM, CALC.	LS: MEDLTGY, BLKY, MICXLN, FRM TO HD, PP POR; SH: DRKGY, SPLT BLKY, SMTH TO SLTY T SFT TO FRM.	LS: MEDLTGY, BLKY, MICXLN, FRM TO HD, PP POR; SH: DRKGY, SPLT BLKY, SMTH TO SLTY TXT, SFT TO FRM, TR PYR.	LS: MEDLTGY, BLKY, MICXLN, FRM TO HD, PP POR; SH: DRKGY, SPLT BLKY, SMTH TO SLTY TX SFT TO FRM, TR PYR.	SH: DRKGY, SPLT TO BLKY, SMTH TO SLTY TXT, SFT TO FRM.; LS: MEDLTGY, BLKY, MICXLN, FRM TO HD, PP POR.	SH: DRKGY, SPLT TO BLKY TO MECH, SM SLTY TXT, SFT TO F CALC.
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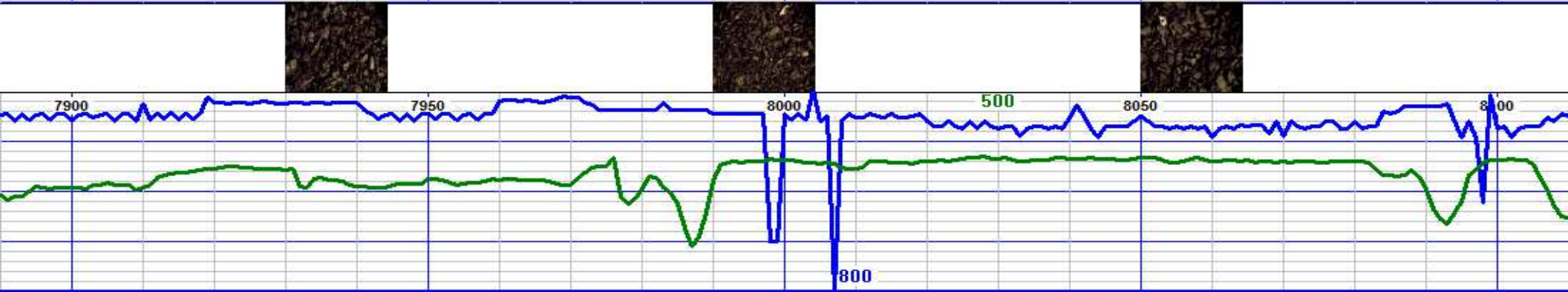
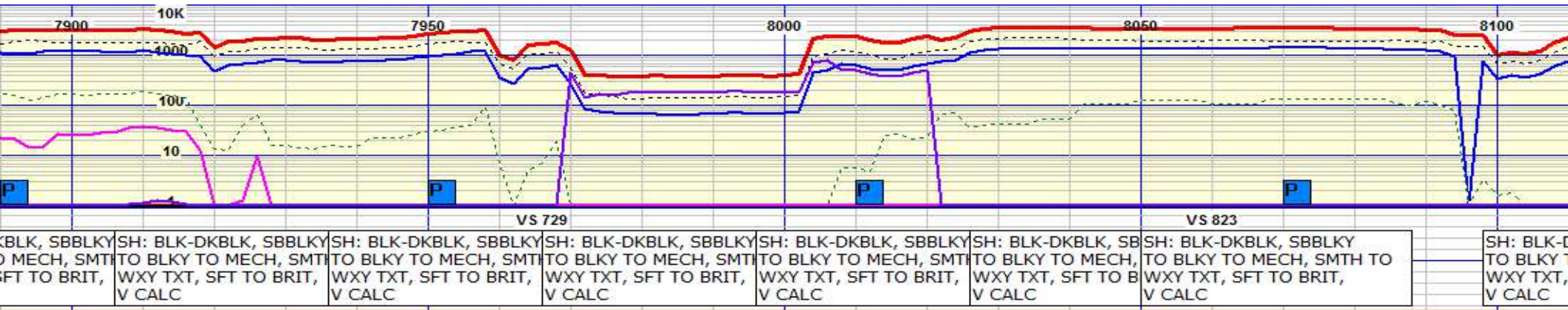


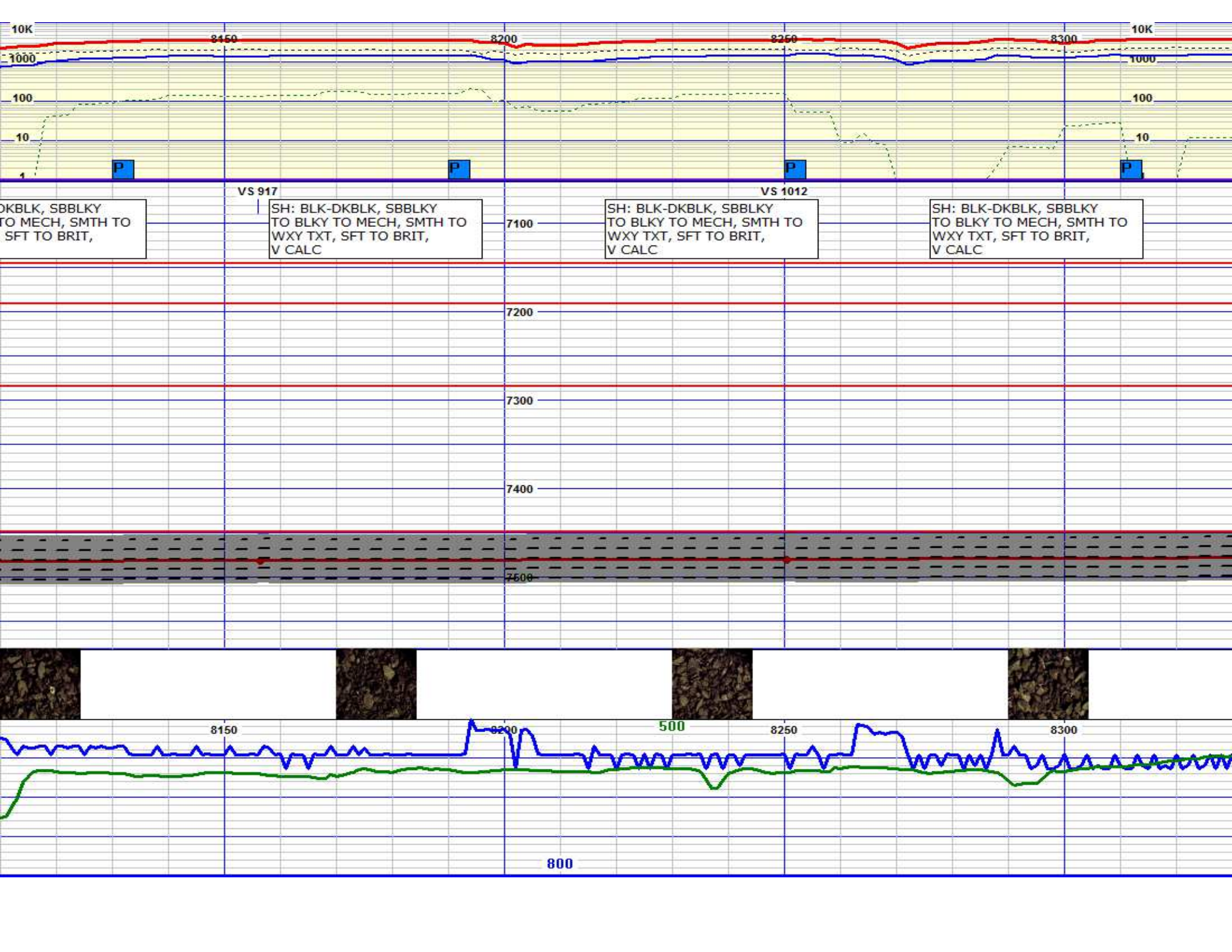


SH: DRKGY, SPLT TO BLKY TO MECH, SMTH TO FRM, SLTY TXT, SFT TO FRM, CALC.	SH: DRKGY, SPLT TO BLKY TO MECH, SMTH TO FRM, SLTY TXT, SFT TO FRM, CALC.	SH: DRKGY, SPLT TO BLKY TO MECH, SMTH TO FRM, SLTY TXT, SFT TO FRM, CALC.	SH: DRKGY, SPLT TO BLKY TO MECH, SMTH TO FRM, SLTY TXT, SFT TO FRM, CALC.	SH: DRKGY, SPLT TO BLKY TO MECH, SMTH TO FRM, SLTY TXT, SFT TO FRM, CALC.	SH: DRKGY-BLK, SBBLKY TO BLKY TO MECH, SMT WXY TXT, SFT TO FRM, V CALC.	SH: DRKGY-BLK, SBBLKY TO BLKY TO MECH, SMT WXY TXT, SFT TO FRM, V CALC.	SH: DRKGY-BLK, SBBLKY TO BLKY TO MECH, SMT WXY TXT, SFT TO FRM, V CALC.
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DKBLK, SBBLKY
TO MECH, SMTH TO
SFT TO BRIT,

VS 917

SH: BLK-DKBLK, SBBLKY
TO BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT,
V CALC

7100

SH: BLK-DKBLK, SBBLKY
TO BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT,
V CALC

VS 1012

SH: BLK-DKBLK, SBBLKY
TO BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT,
V CALC

7200

7300

7400

7500



8150

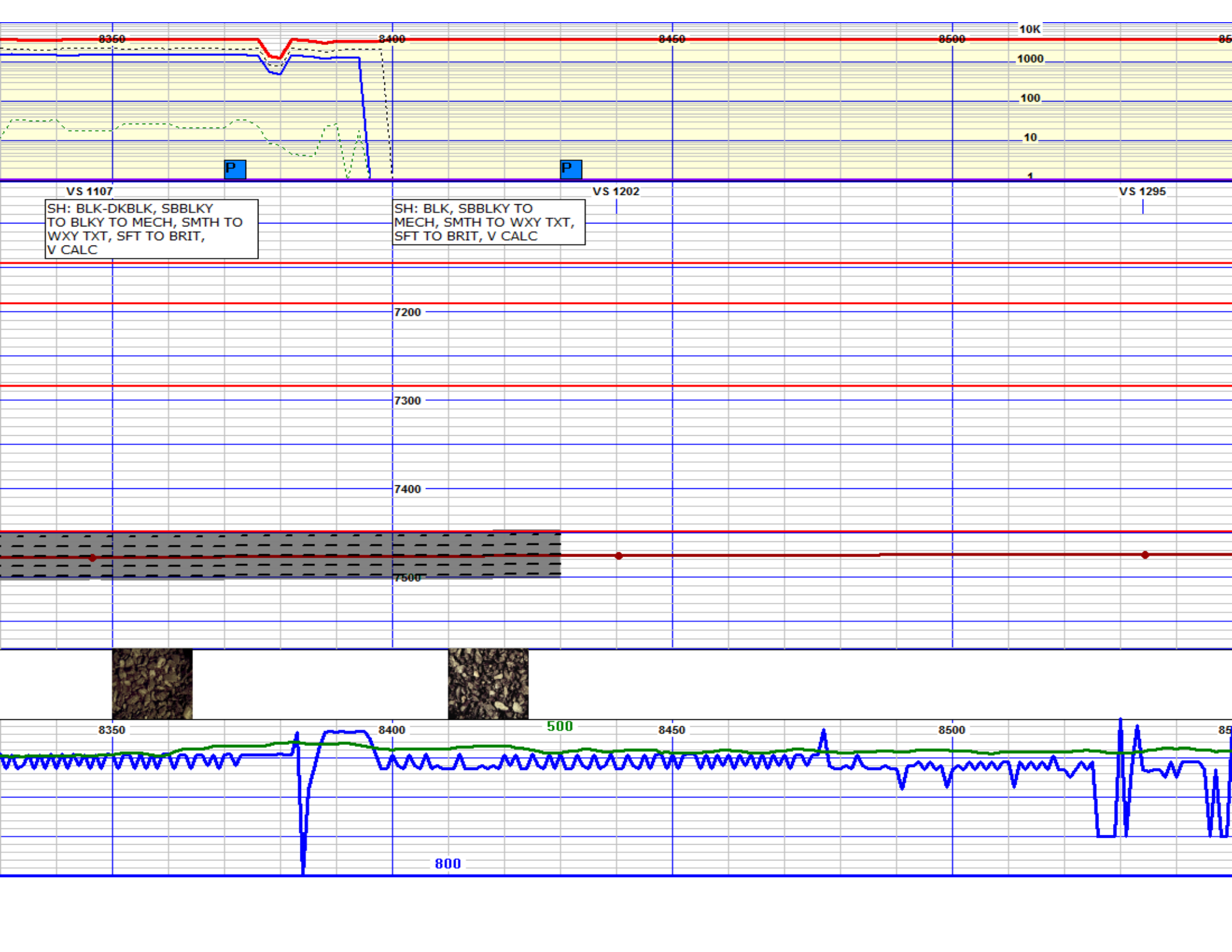
8200

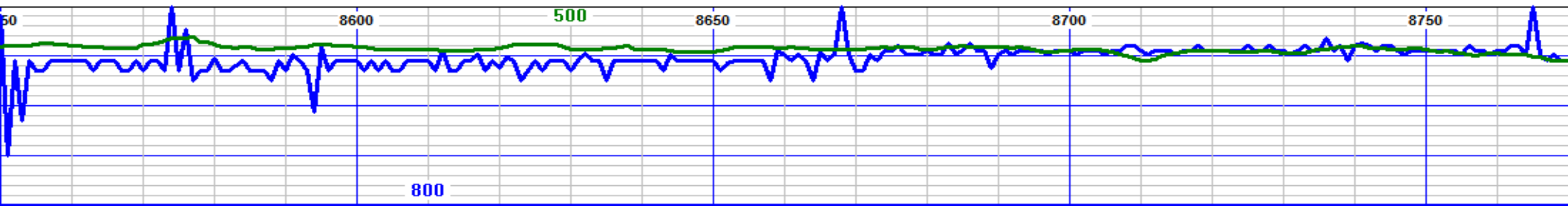
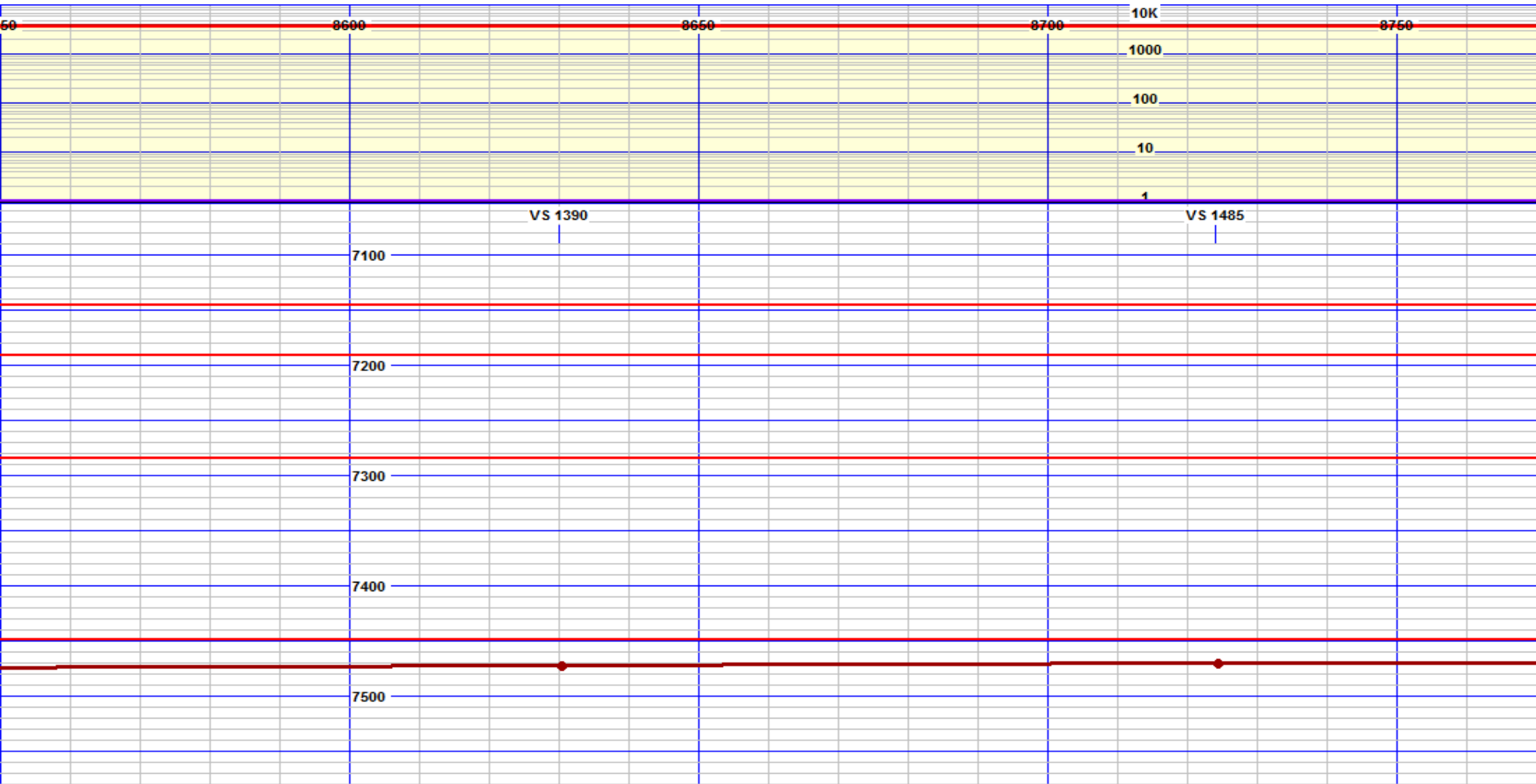
500

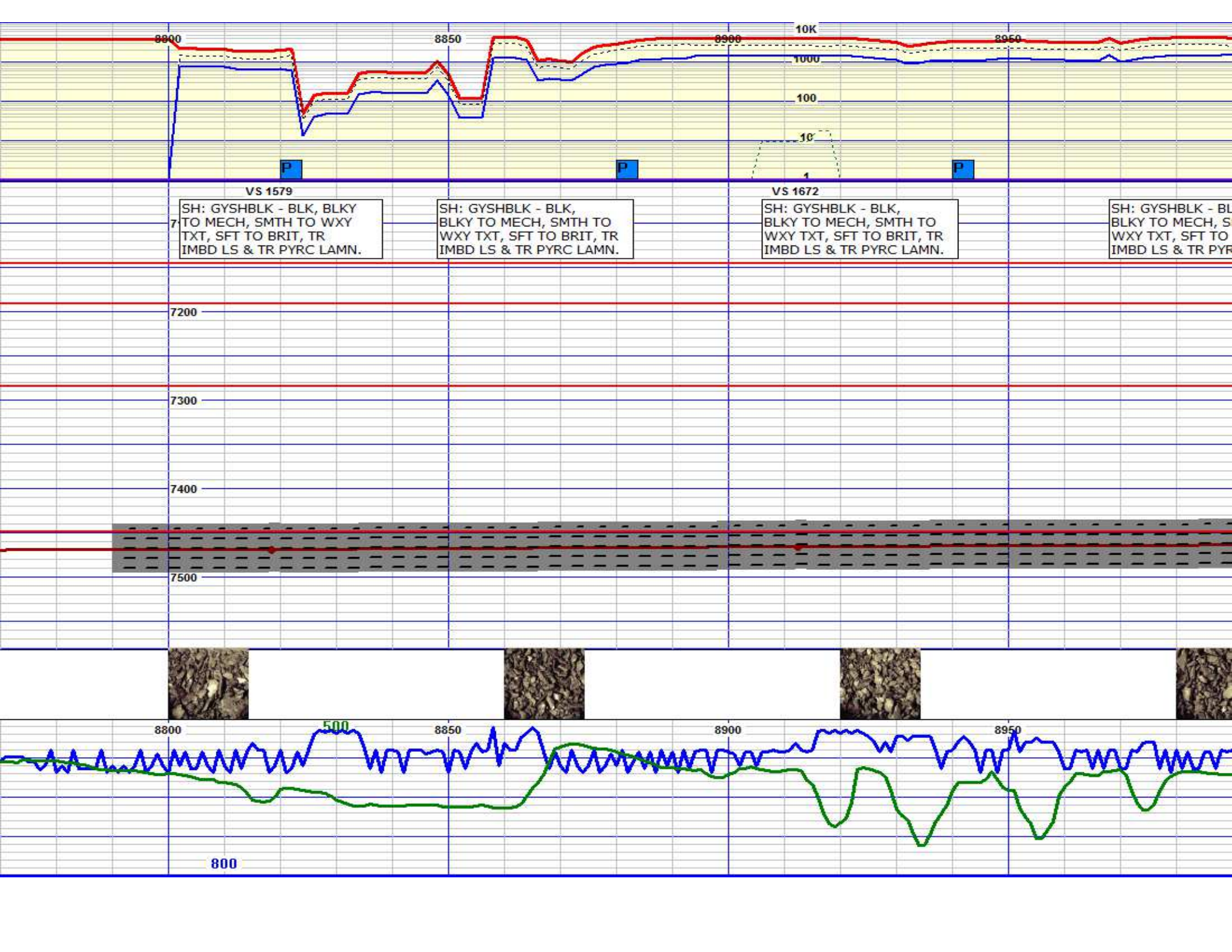
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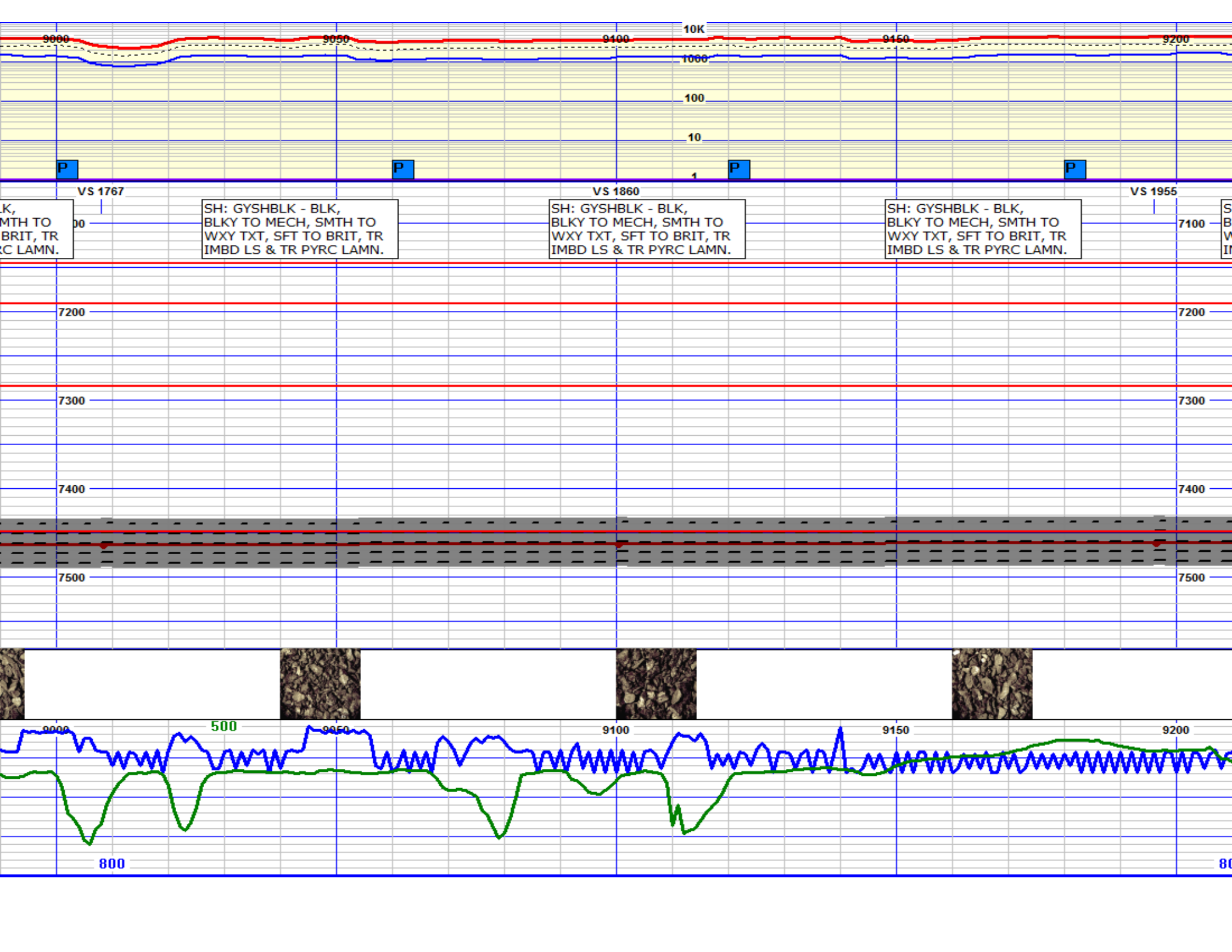
8300

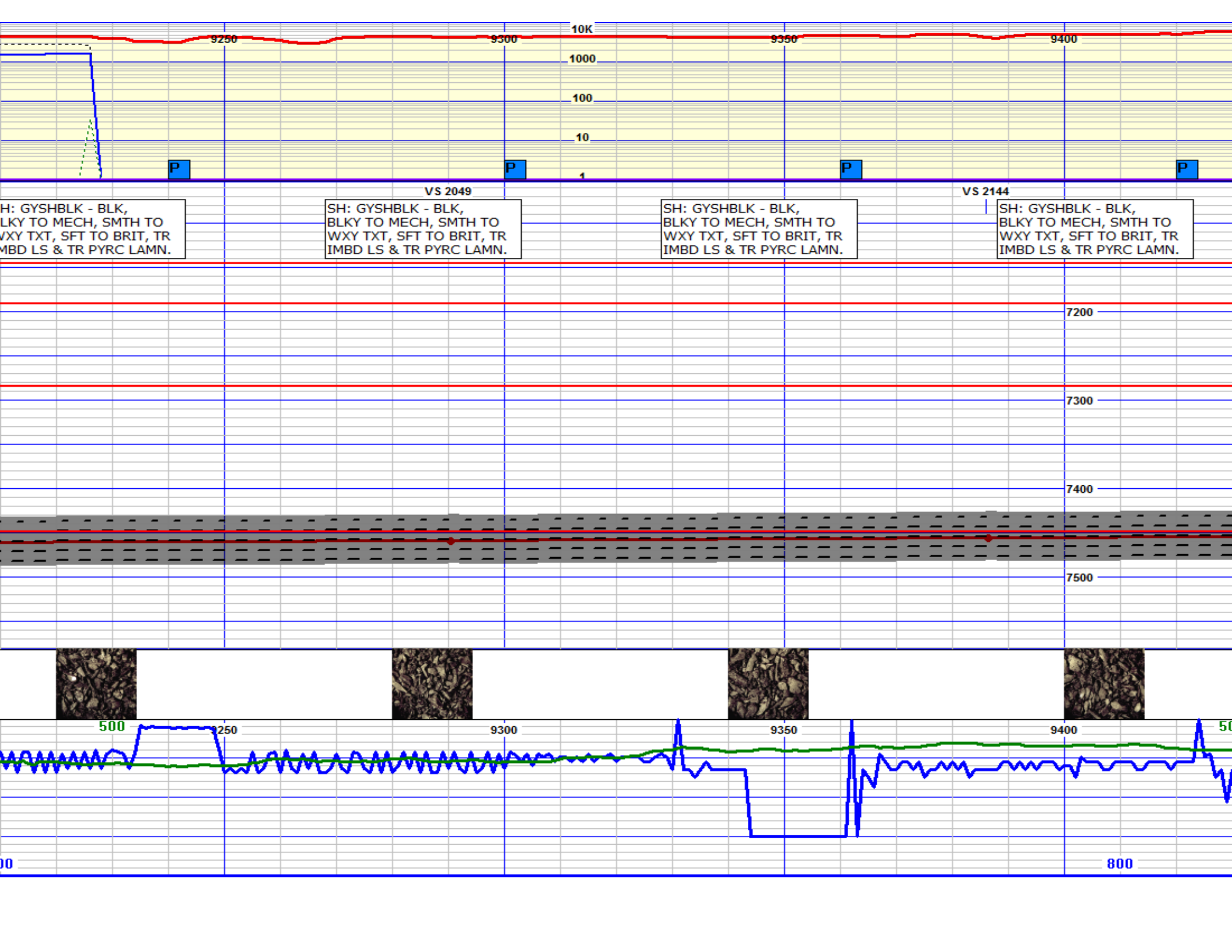
800











9250

9300

9350

9400

10K

1000

100

10

1

P

P

P

P

VS 2049

VS 2144

SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & TR PYRC LAMN.

SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & TR PYRC LAMN.

SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & TR PYRC LAMN.

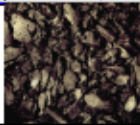
SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & TR PYRC LAMN.

7200

7300

7400

7500



500

250

9300

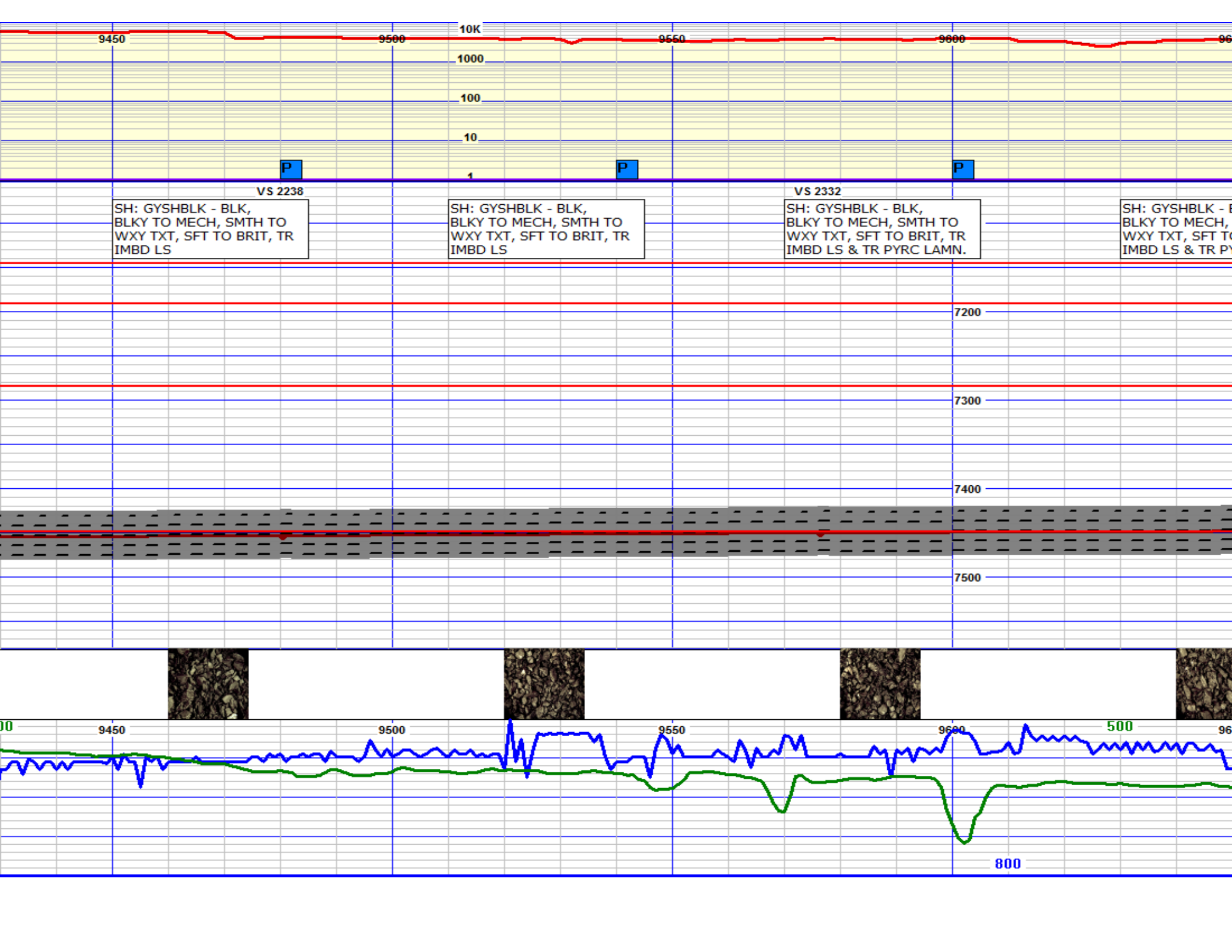
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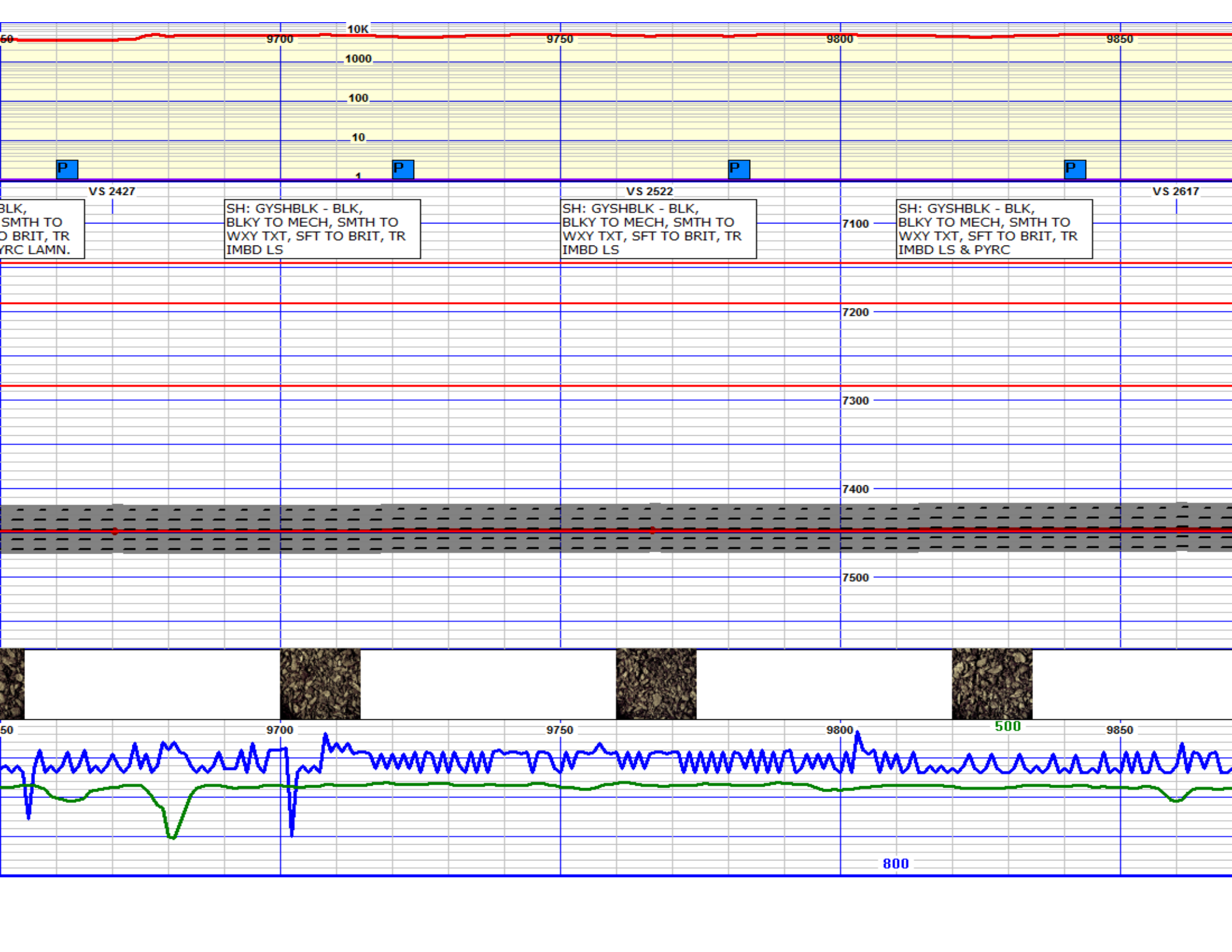
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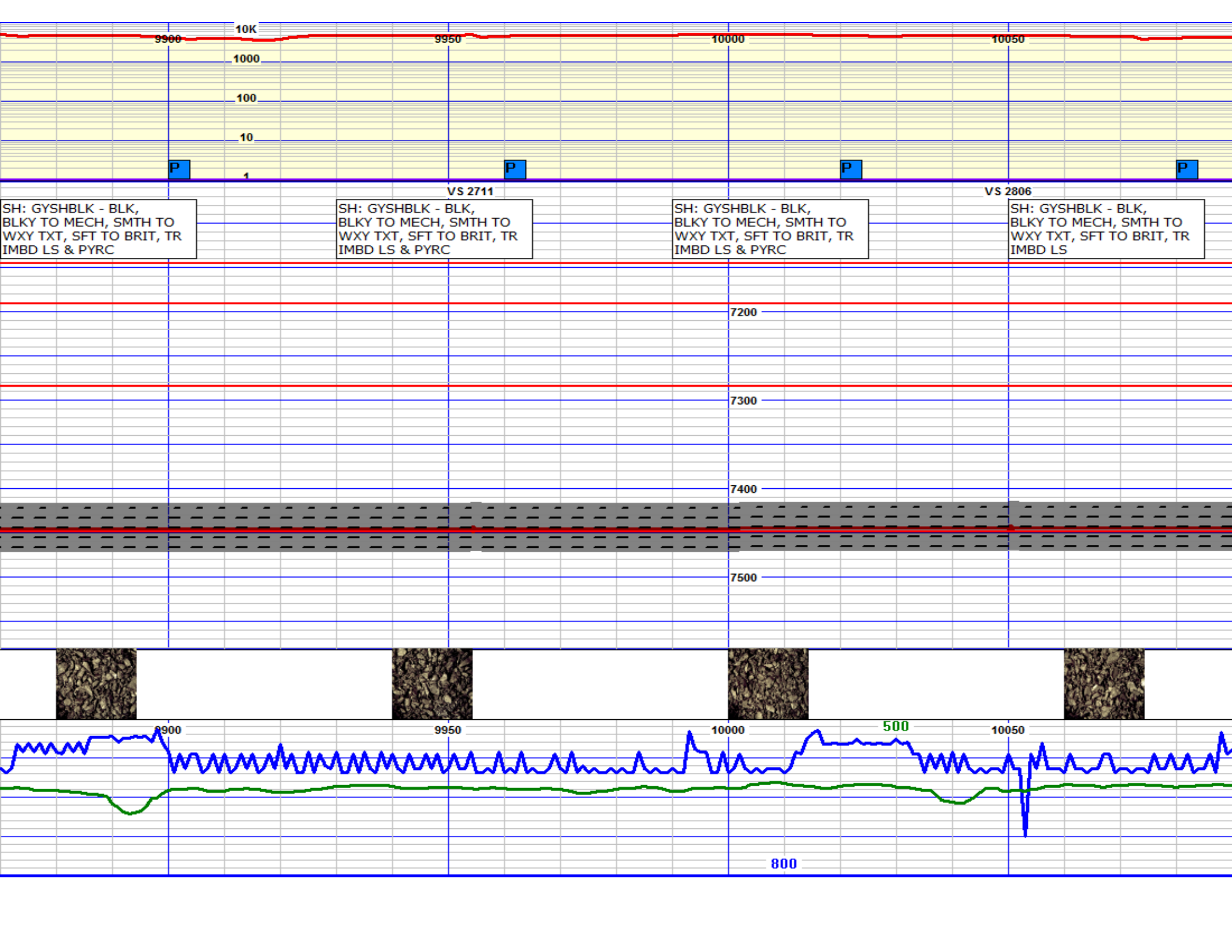
500

0

800







9900

10K

9950

10000

10050

1000

100

10

P

1

P

P

P

VS 2711

VS 2806

SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & PYRC

SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & PYRC

SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS & PYRC

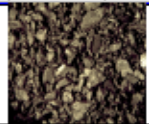
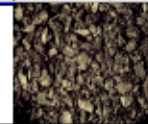
SH: GYSHBLK - BLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO BRIT, TR
IMBD LS

7200

7300

7400

7500



9900

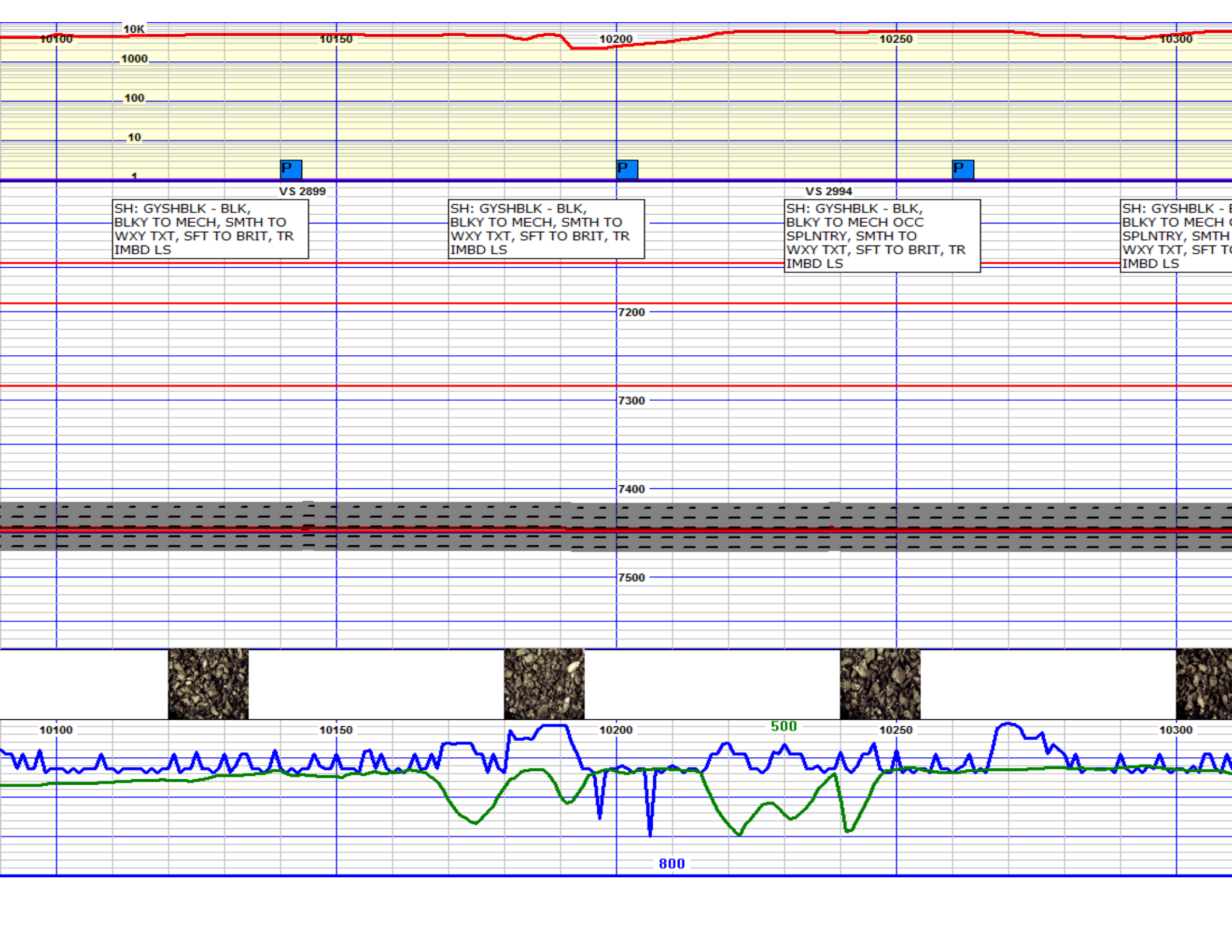
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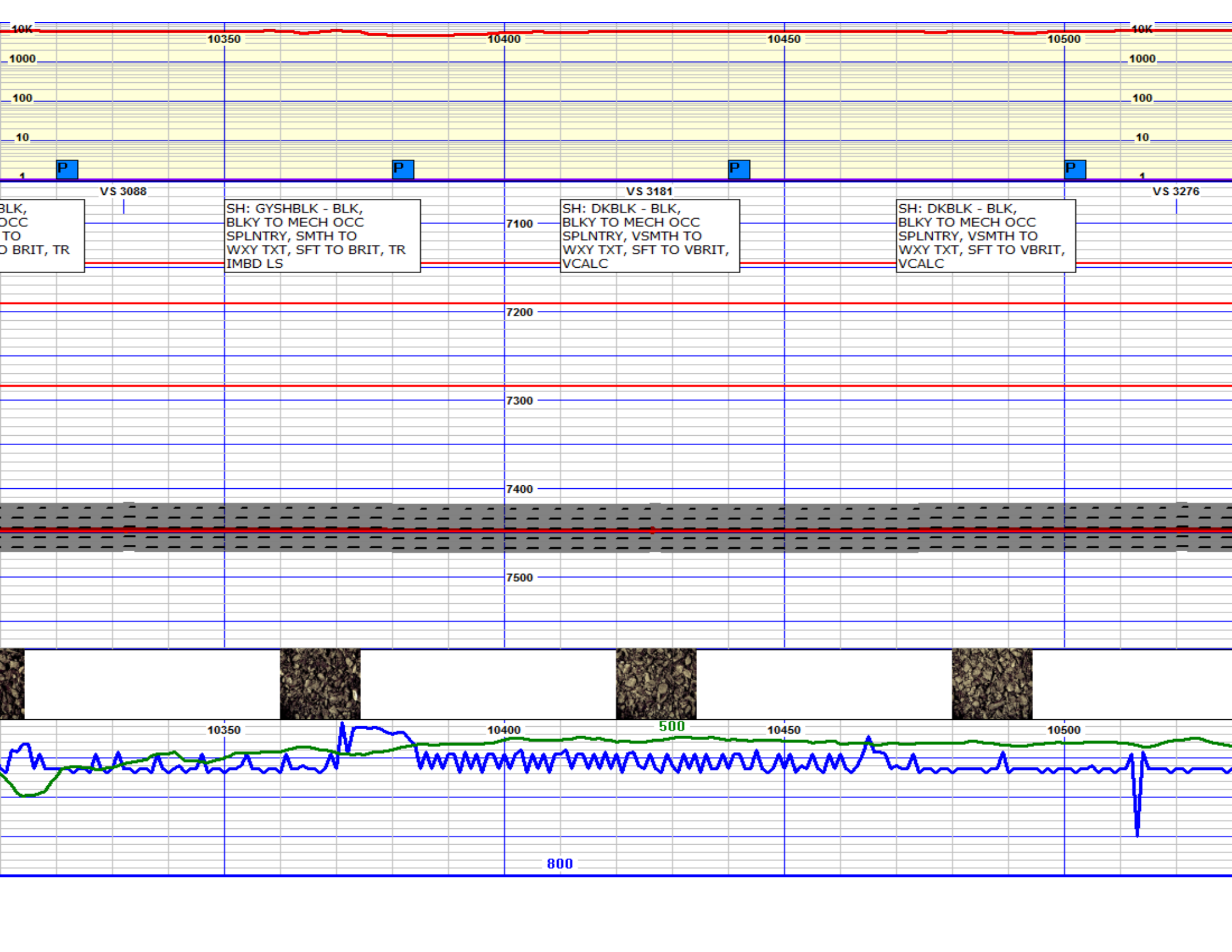
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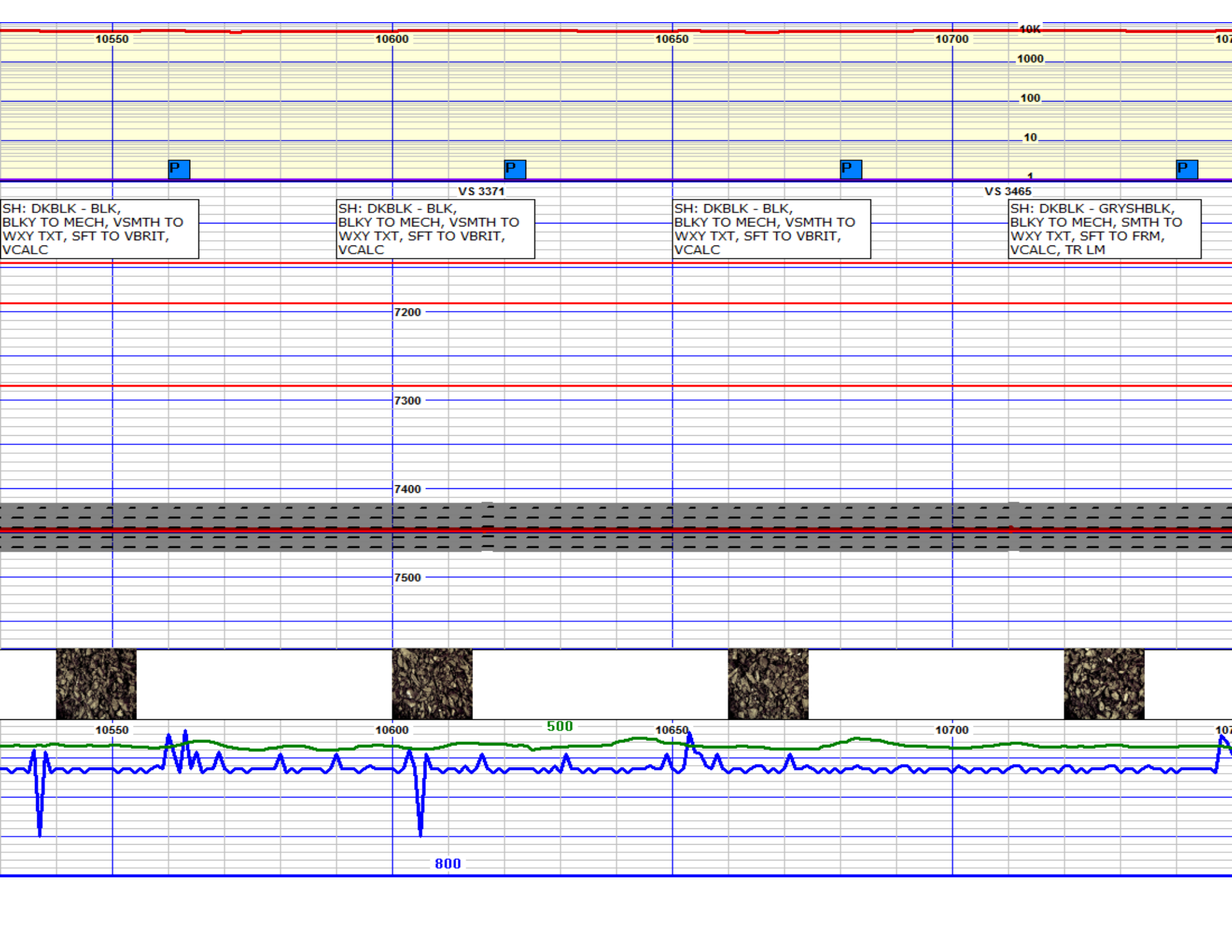
500

10050

800







10550

10600

10650

10700

10K

1000

100

10

1

P

P

P

P

VS 3371

VS 3465

SH: DKBLK - BLK,
BLKY TO MECH, VSMTH TO
WXY TXT, SFT TO VBRIT,
VCALC

SH: DKBLK - BLK,
BLKY TO MECH, VSMTH TO
WXY TXT, SFT TO VBRIT,
VCALC

SH: DKBLK - BLK,
BLKY TO MECH, VSMTH TO
WXY TXT, SFT TO VBRIT,
VCALC

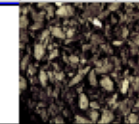
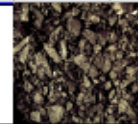
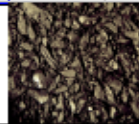
SH: DKBLK - GRYSHBLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO FRM,
VCALC, TR LM

7200

7300

7400

7500



10550

10600

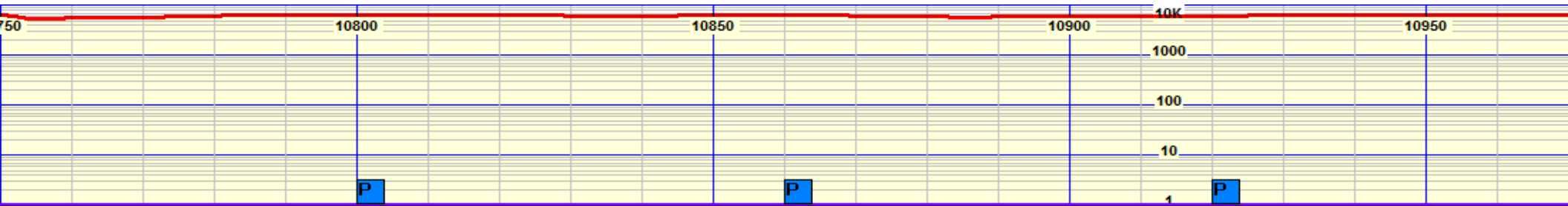
500

10650

10700

10750

800

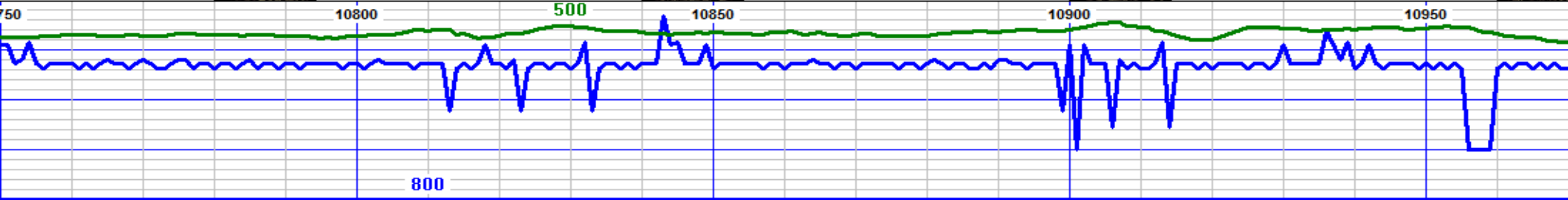
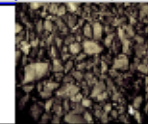
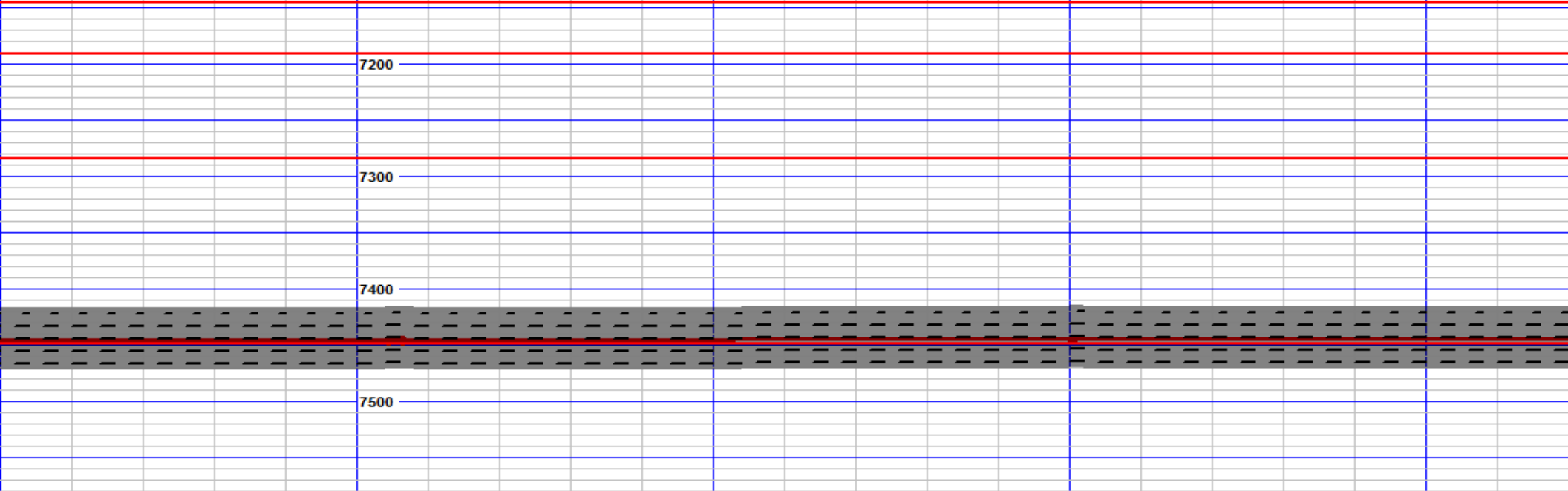


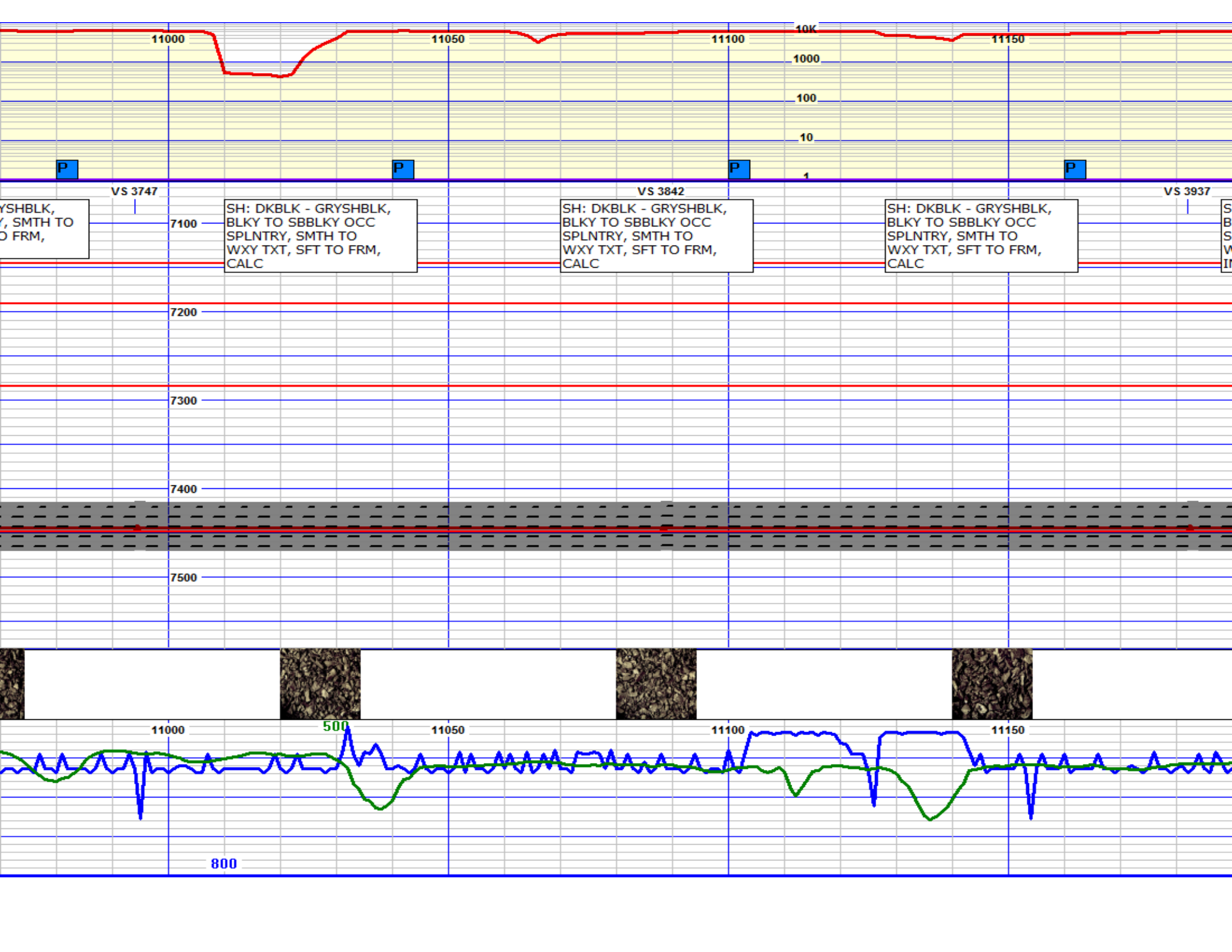
VS 3560
SH: DKBLK - GRYSHBLK,
BLKY TO MECH, SMTH TO
WXY TXT, SFT TO FRM,
CALC

SH: DKBLK - GRYSHBLK,
BLKY TO SBBLKY, SMTH TO
WXY TXT, SFT TO FRM,
CALC

VS 3653
SH: DKBLK - GRYSHBLK,
BLKY TO SBBLKY, SMTH TO
WXY TXT, SFT TO FRM,
CALC

SH: DKBLK - GRYSHBLK,
BLKY TO SBBLKY, SMTH TO
WXY TXT, SFT TO FRM,
CALC





11000

11050

11100

11150

10K

1000

100

10

1

P

VS 3747

P

VS 3842

P

VS 3937

P

YSHBLK,
Y, SMTH TO
O FRM,

7100

SH: DKBLK - GRYSHBLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM,
CALC

SH: DKBLK - GRYSHBLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM,
CALC

SH: DKBLK - GRYSHBLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM,
CALC

S
B
S
W
IF

7200

7300

7400

7500



11000

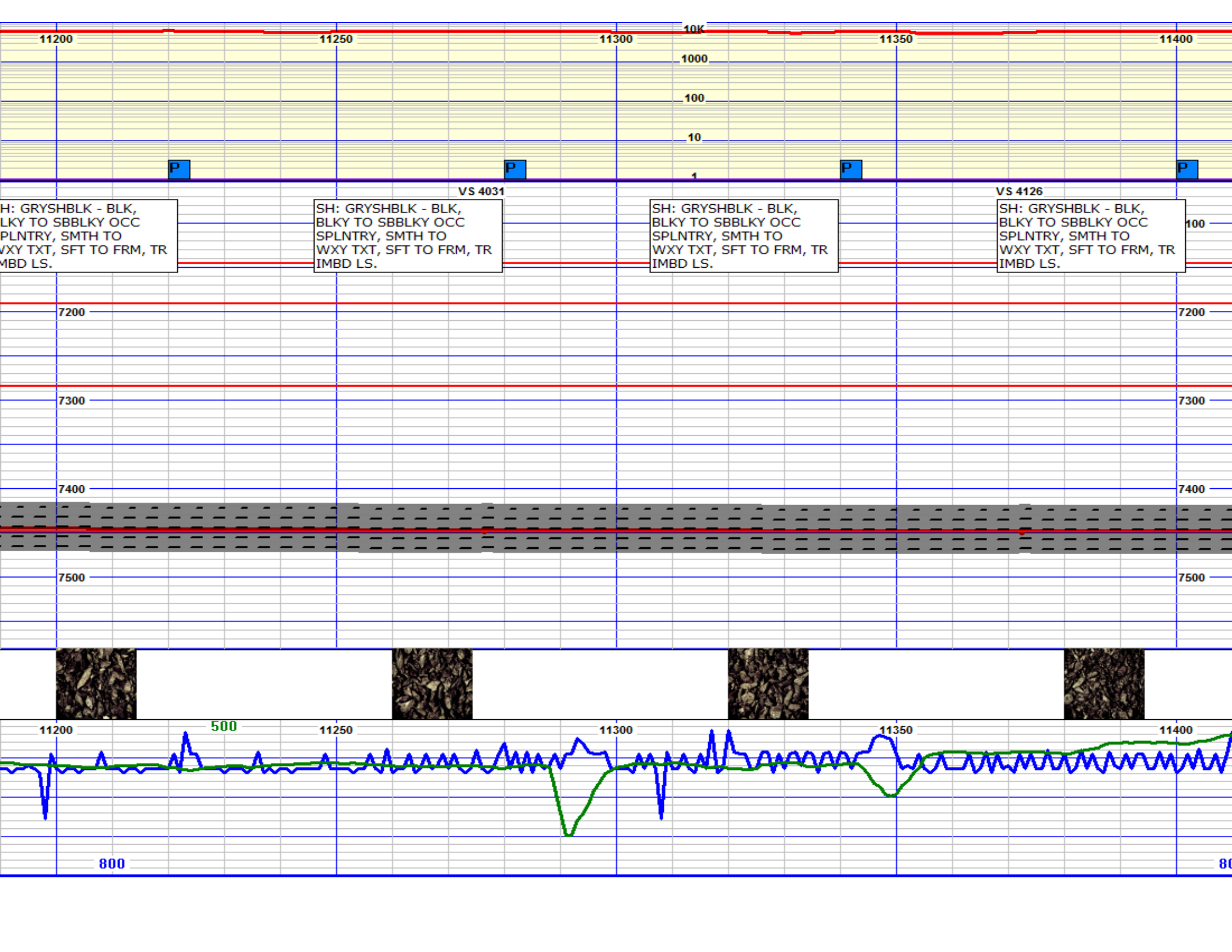
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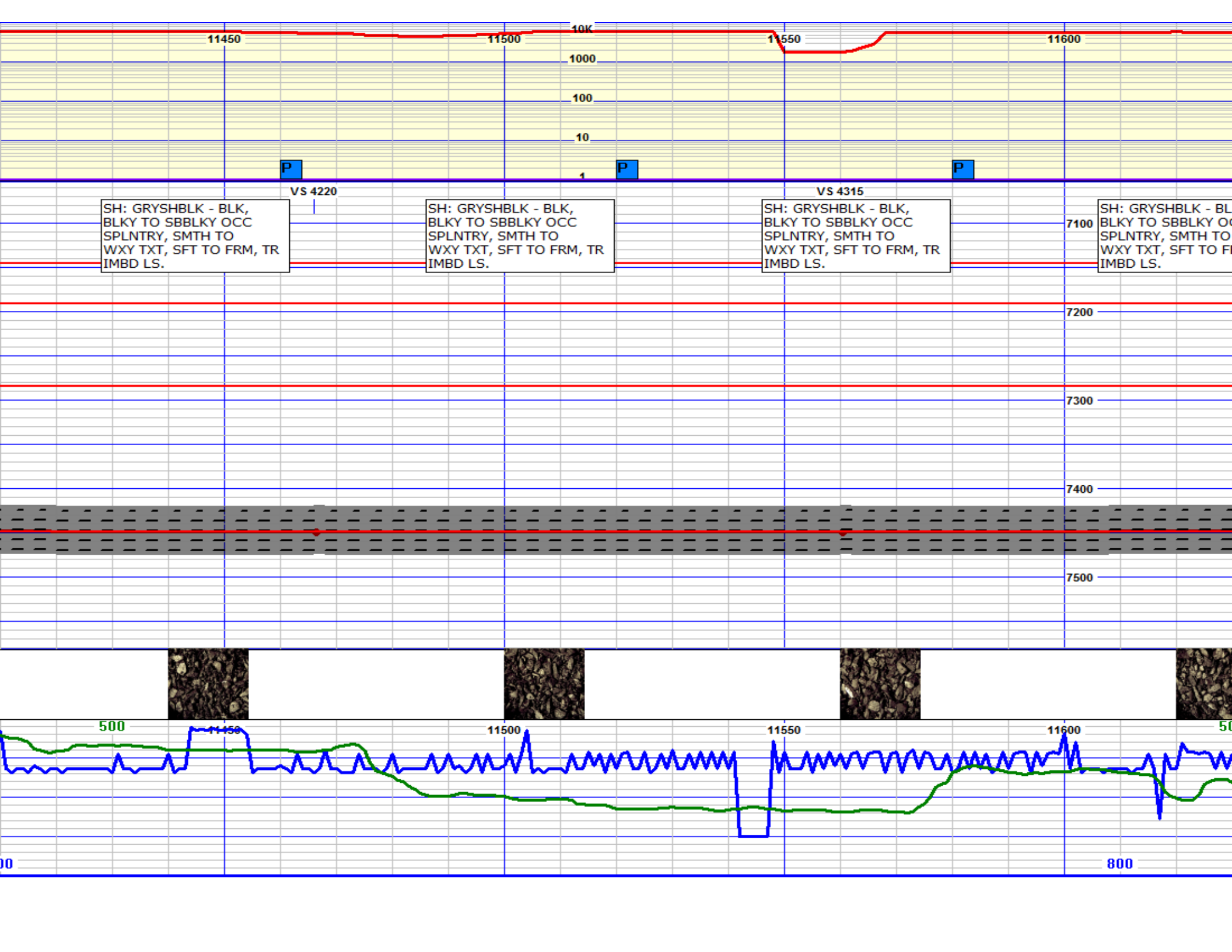
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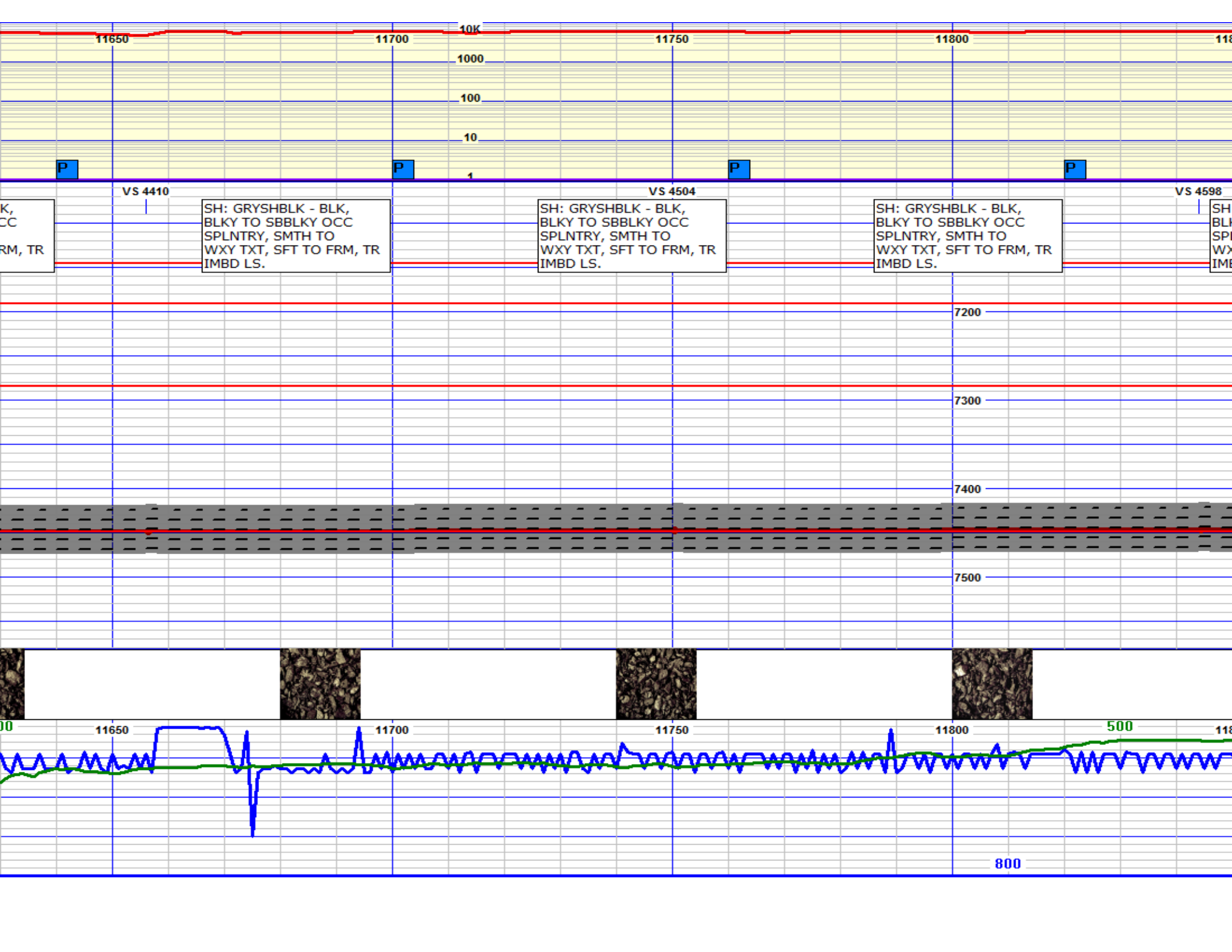
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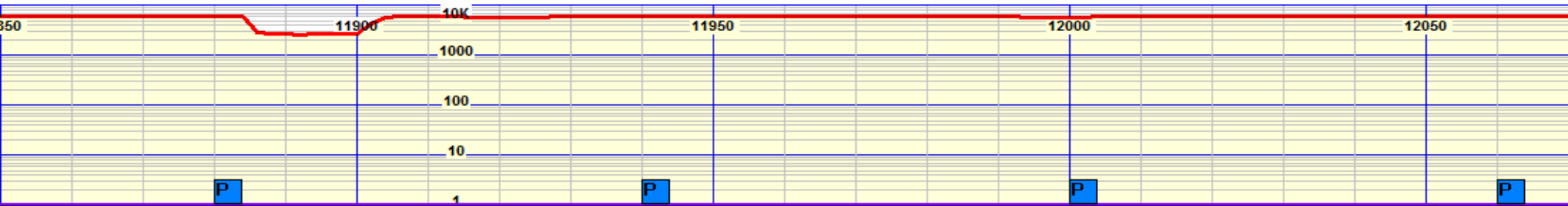
11150

800









SH: GRYSHBLK - BLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS.

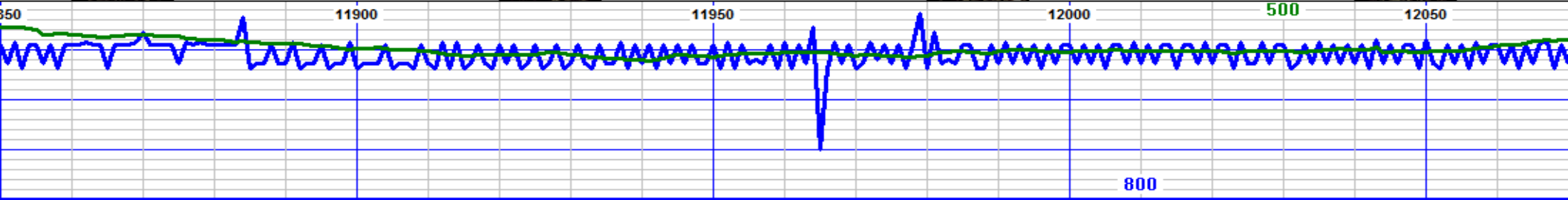
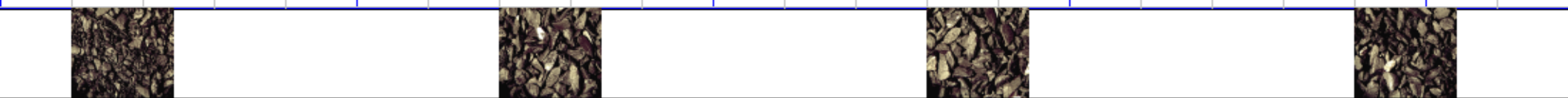
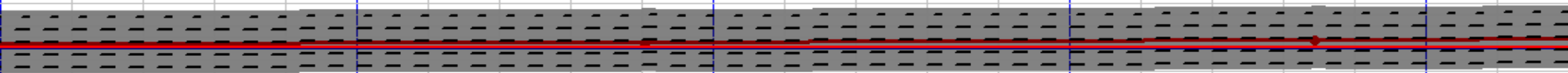
SH: GRYSHBLK - BLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS.

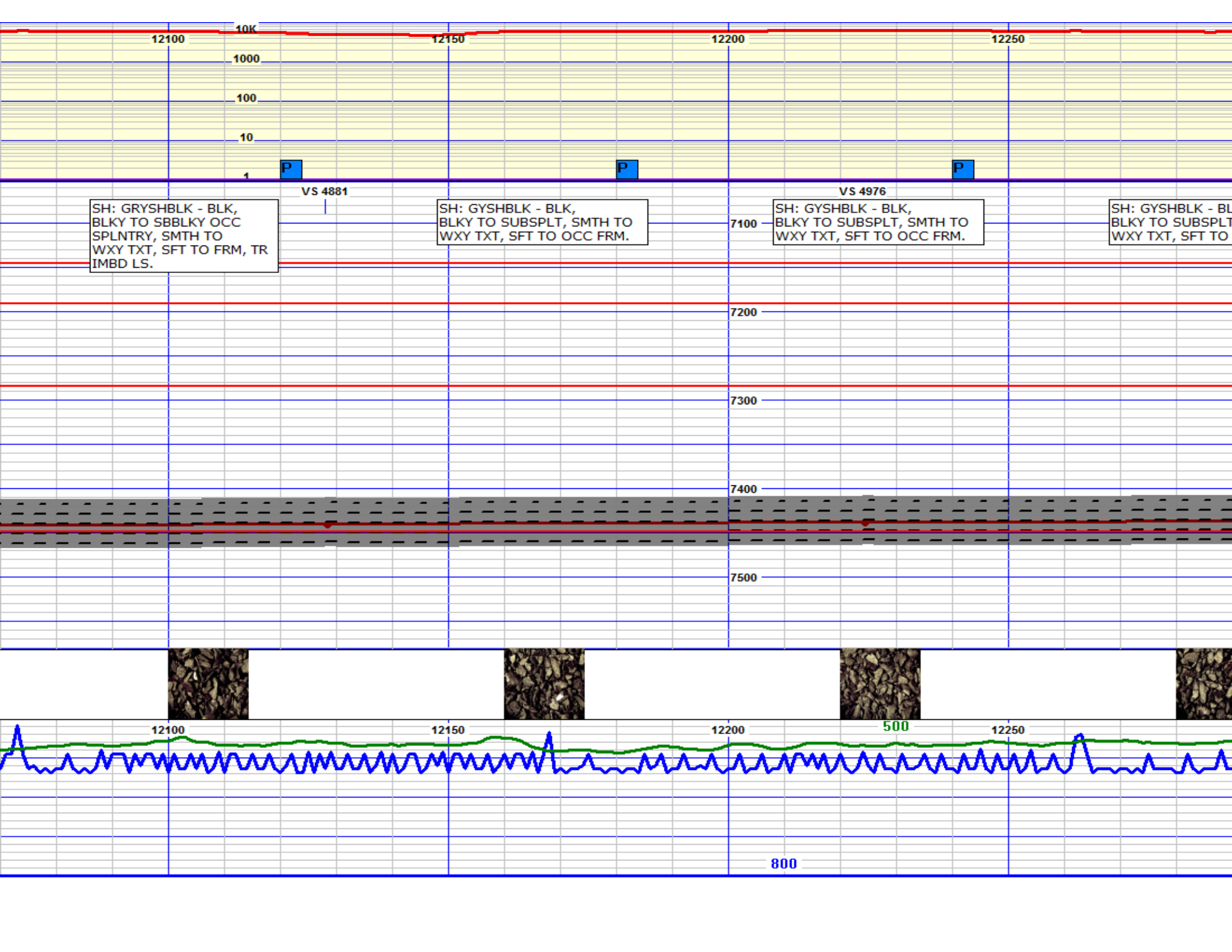
SH: GRYSHBLK - BLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS.

SH: GRYSHBLK - BLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS.

VS 4693

VS 4748





12100

12150

12200

12250

10k
1000
100
10
1

P

VS 4881

P

VS 4976

P

SH: GRYSHBLK - BLK,
BLKY TO SBBLKY OCC
SPLNTRY, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS.

SH: GYSHBLK - BLK,
BLKY TO SUBSPLT, SMTH TO
WXY TXT, SFT TO OCC FRM.

7100

SH: GYSHBLK - BLK,
BLKY TO SUBSPLT, SMTH TO
WXY TXT, SFT TO OCC FRM.

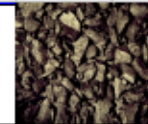
SH: GYSHBLK - BLK,
BLKY TO SUBSPLT,
WXY TXT, SFT TO

7200

7300

7400

7500



12100

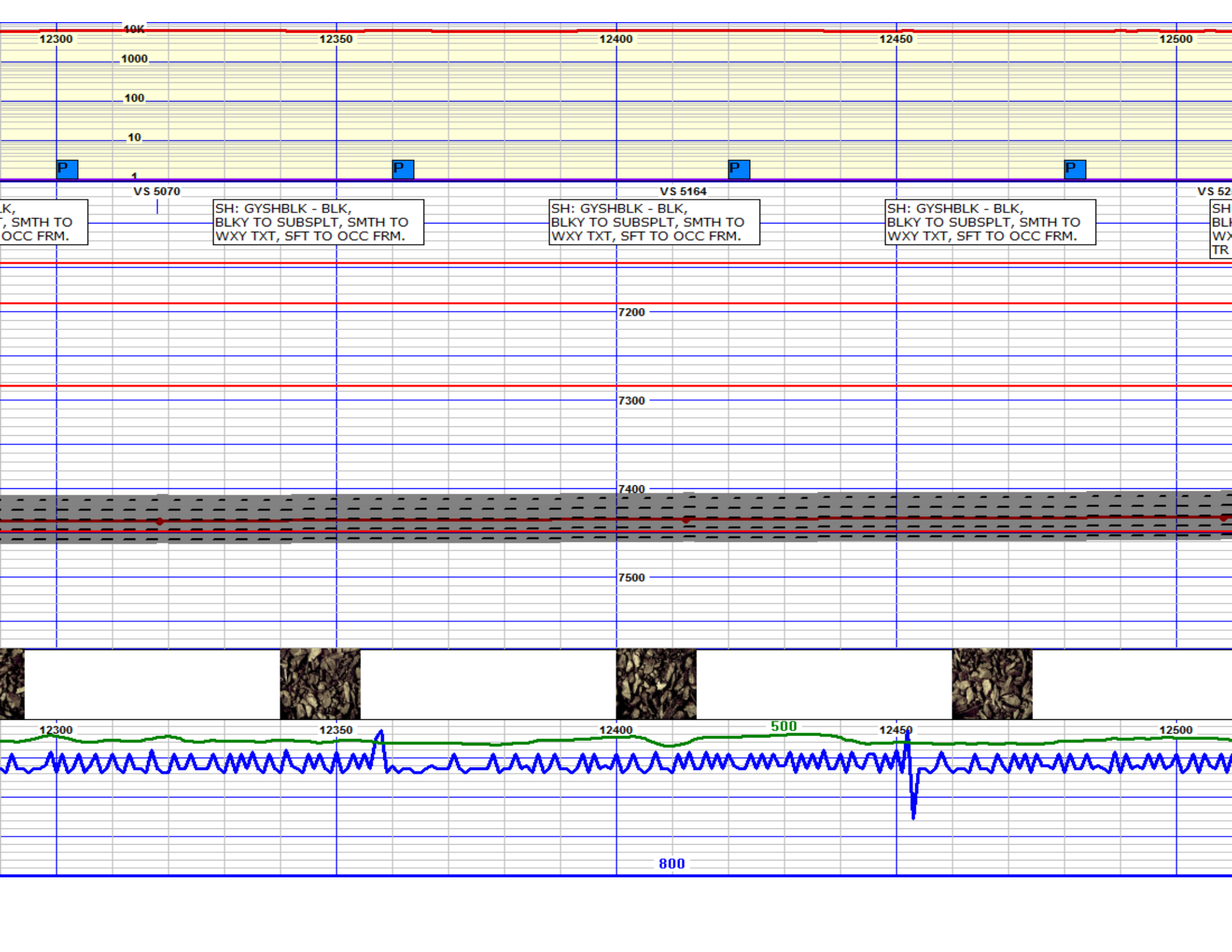
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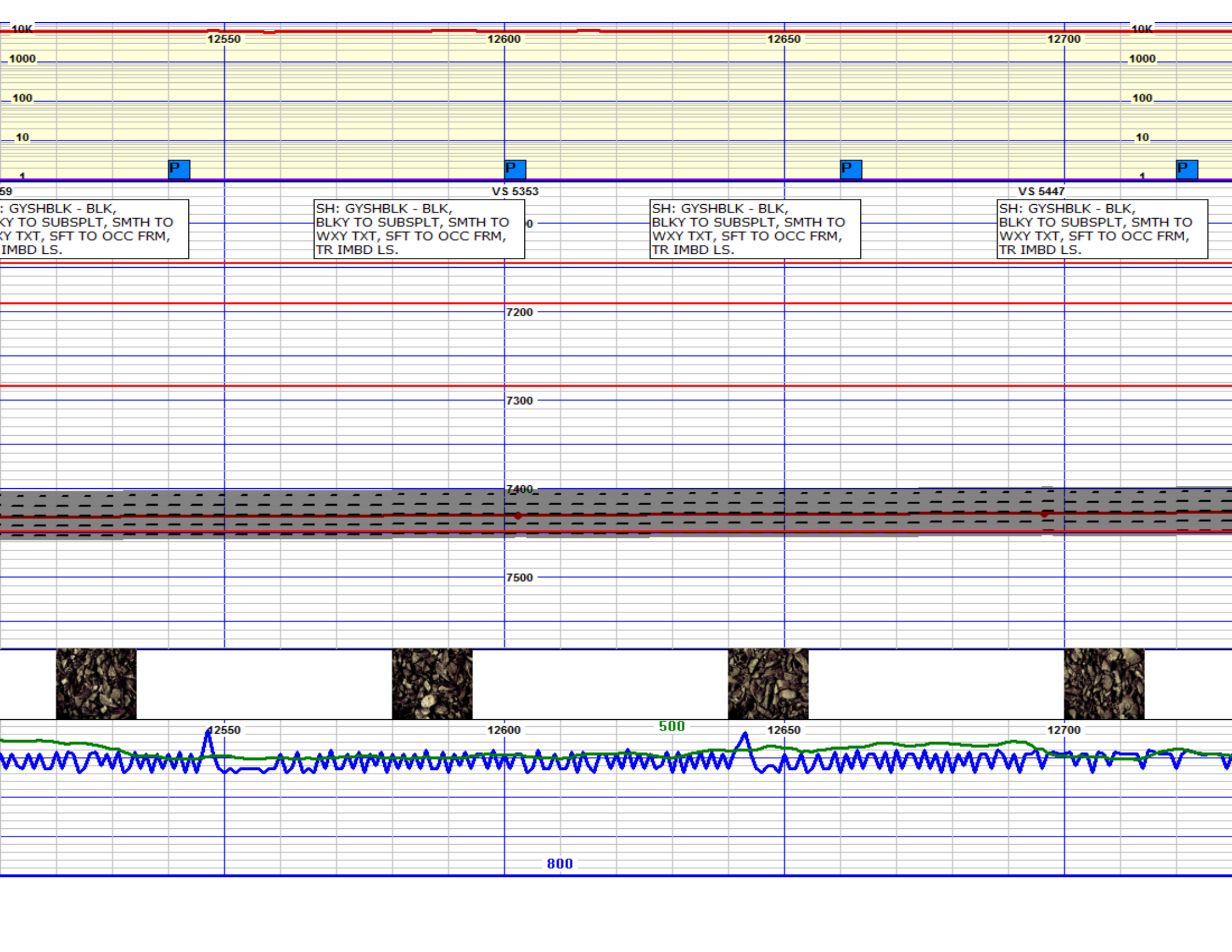
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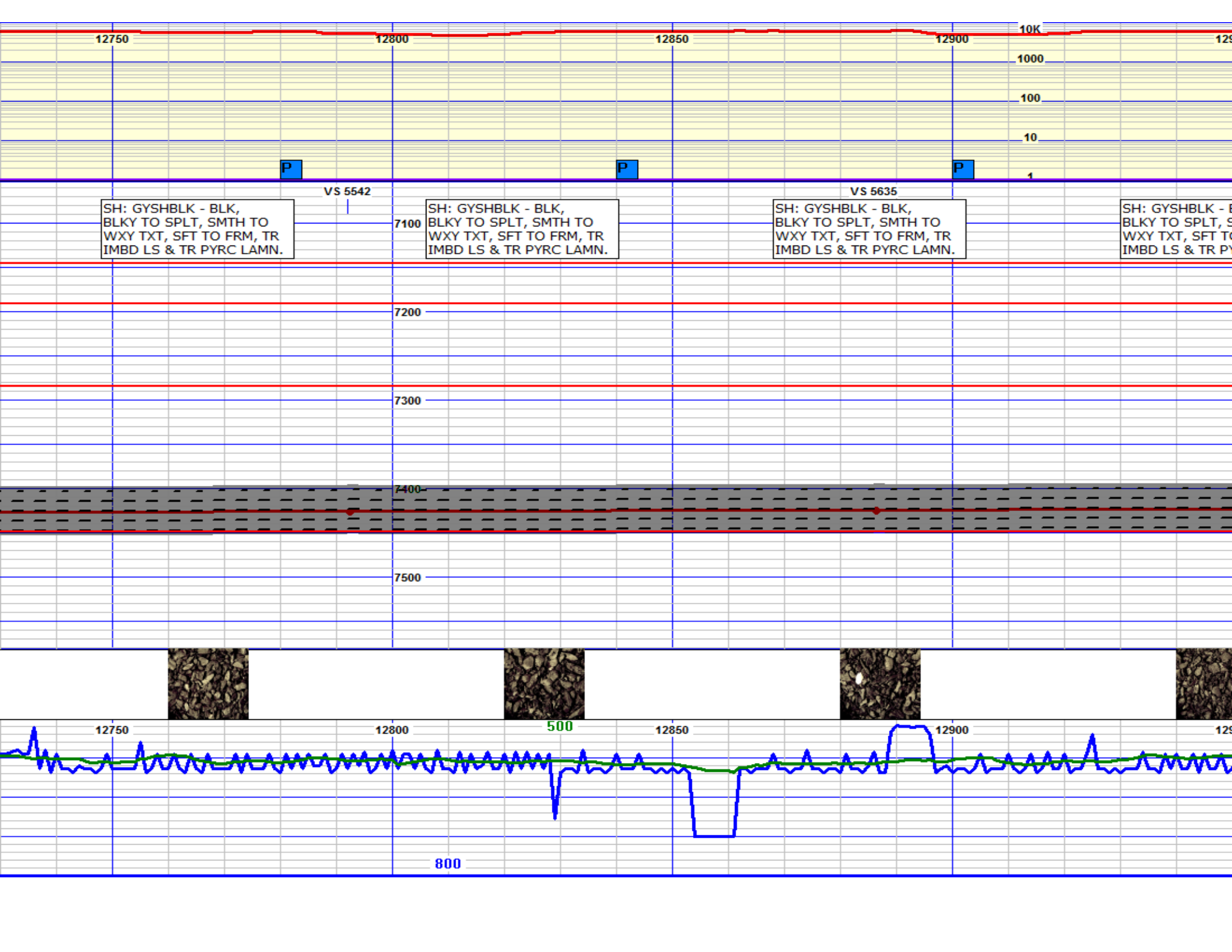
12250

500

800







12750

12800

12850

12900

12950

10K

1000

100

10

1

P

P

P

VS 5542

VS 5635

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS & TR PYRC LAMN.

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS & TR PYRC LAMN.

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS & TR PYRC LAMN.

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXT, SFT TO FRM, TR
IMBD LS & TR PYRC LAMN.

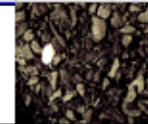
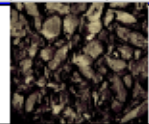
7100

7200

7300

7400

7500



12750

12800

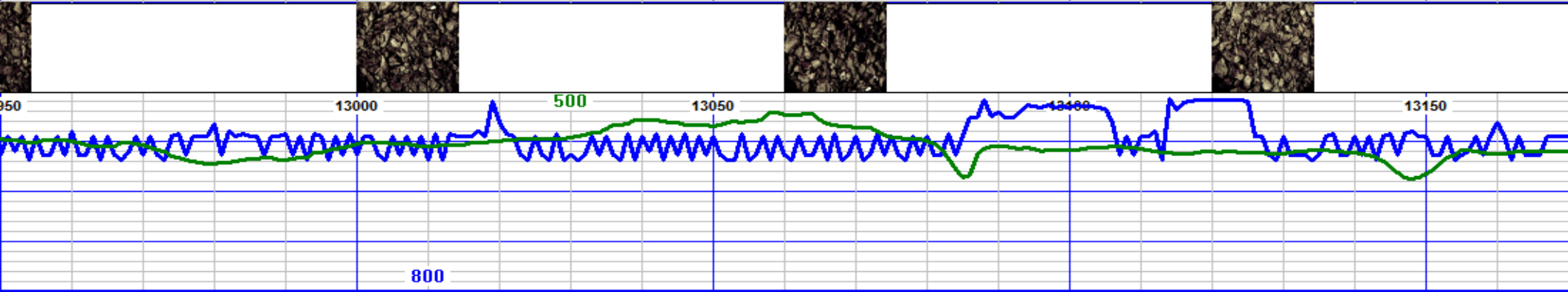
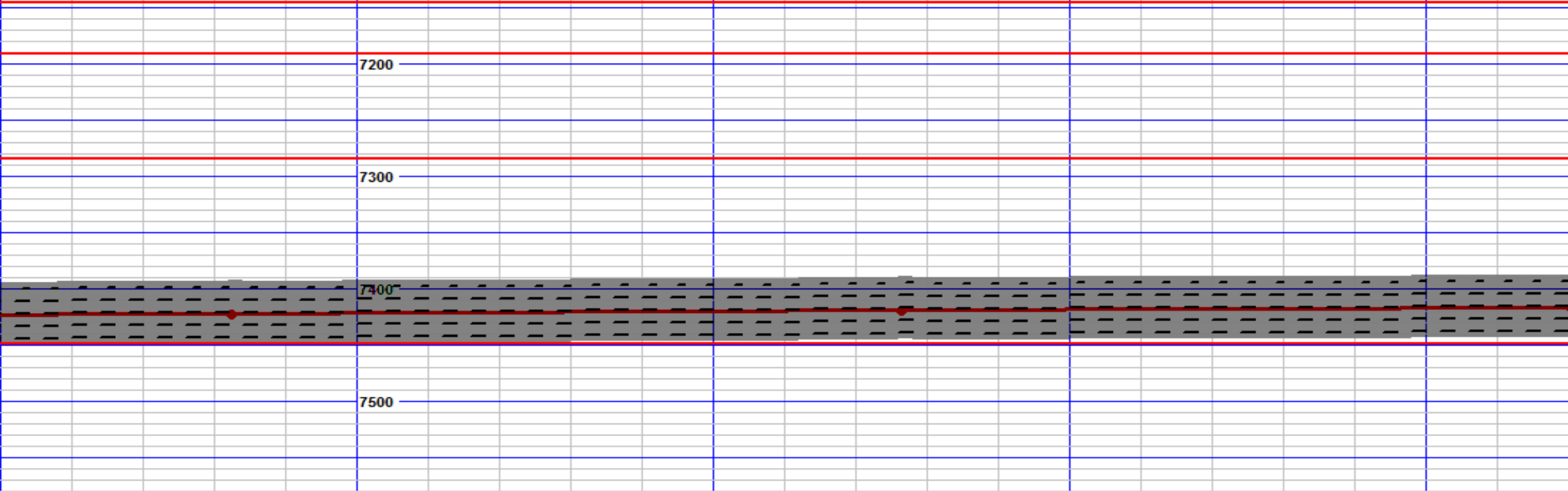
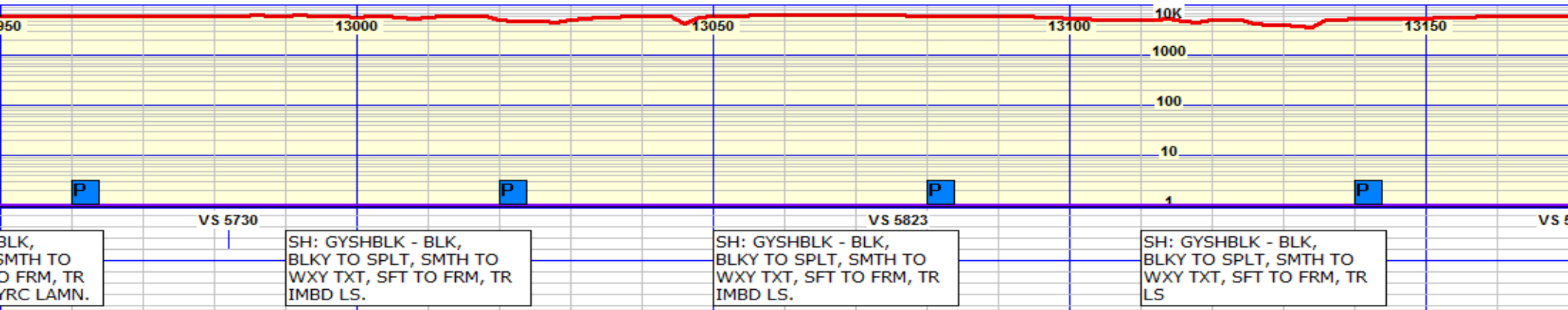
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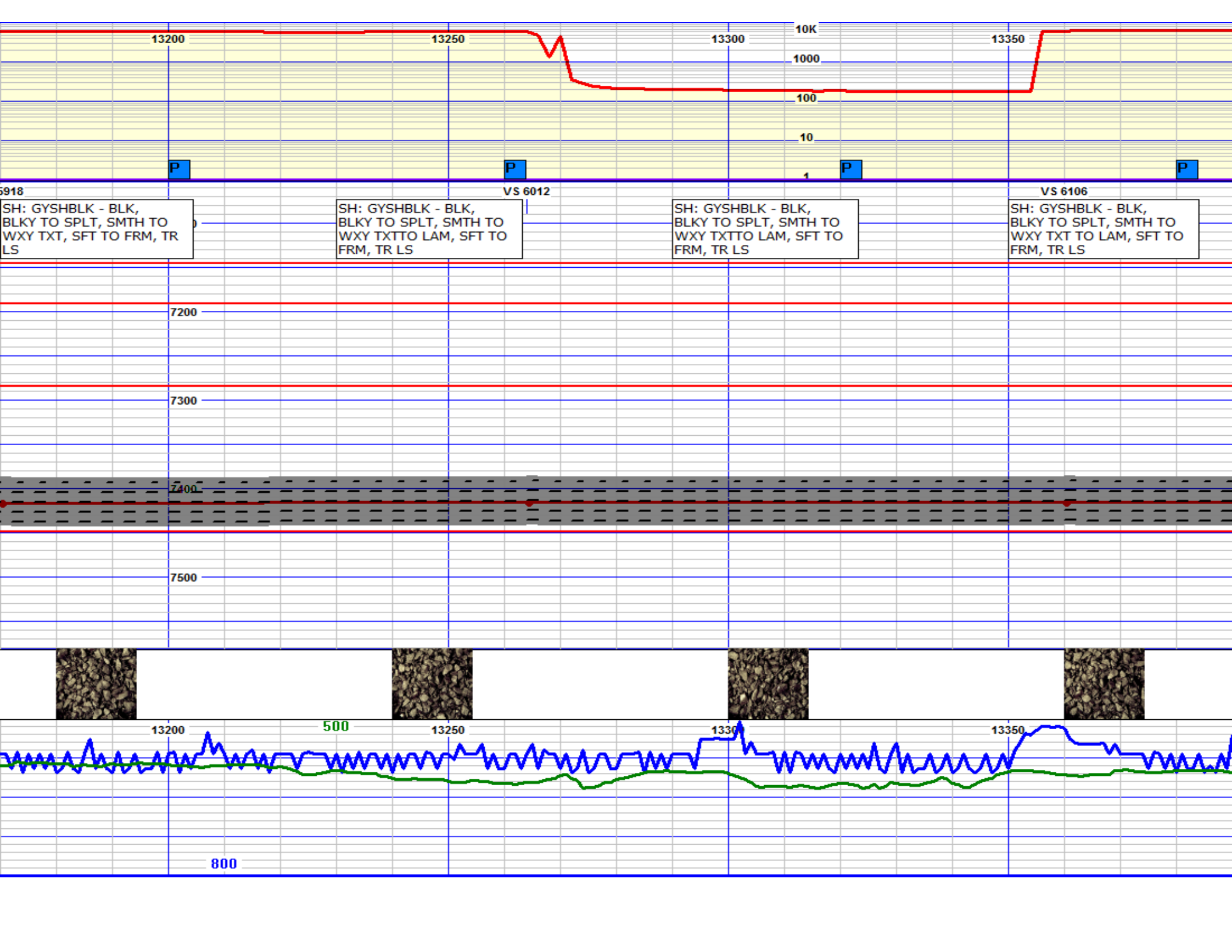
12850

12900

12950

800





13200

13250

13300

13350

10K

1000

100

10

1

P

P

P

P

5918

VS 6012

VS 6106

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXT, SFT TO FRM, TR
LS

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXTTO LAM, SFT TO
FRM, TR LS

SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXTTO LAM, SFT TO
FRM, TR LS

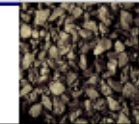
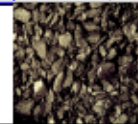
SH: GYSHBLK - BLK,
BLKY TO SPLT, SMTH TO
WXY TXT TO LAM, SFT TO
FRM, TR LS

7200

7300

7400

7500



13200

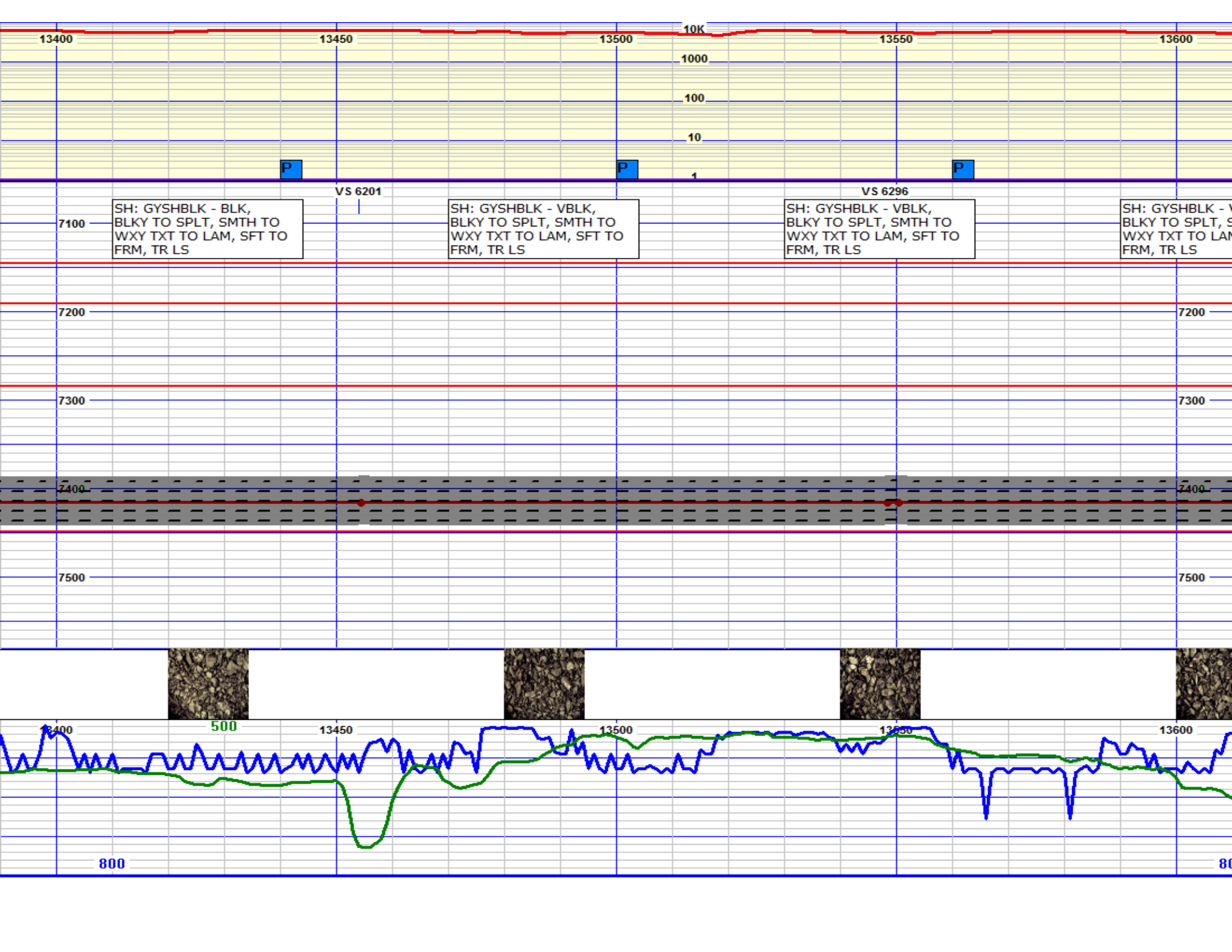
500

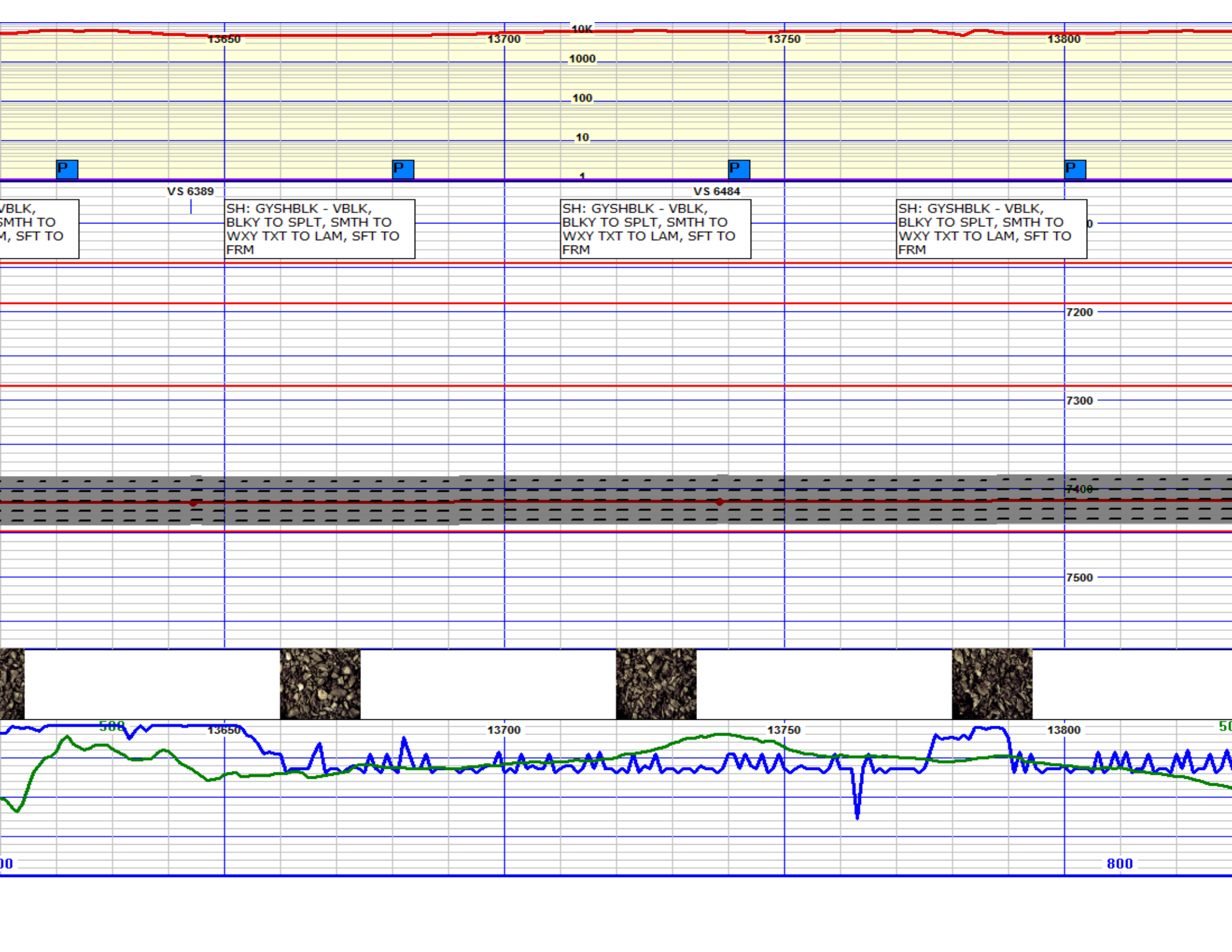
13250

13300

13350

800





13650

13700

13750

13800

10K

1000

100

10

1

P

P

P

P

VS 6389

VS 6484

VBLK,
SMTH TO
M, SFT TO

SH: GYSHBLK - VBLK,
BLKY TO SPLT, SMTH TO
WXY TXT TO LAM, SFT TO
FRM

SH: GYSHBLK - VBLK,
BLKY TO SPLT, SMTH TO
WXY TXT TO LAM, SFT TO
FRM

SH: GYSHBLK - VBLK,
BLKY TO SPLT, SMTH TO
WXY TXT TO LAM, SFT TO
FRM

7200

7300

7400

7500

500

13650

13700

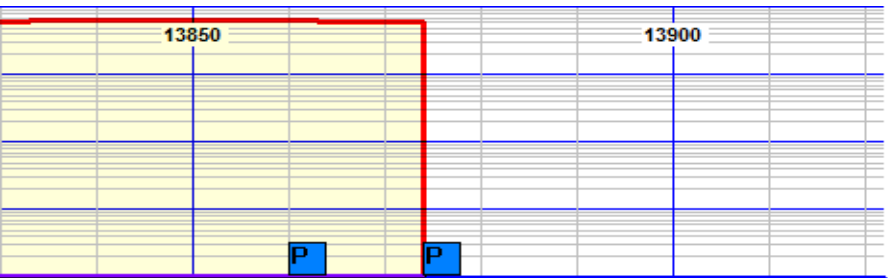
13750

13800

500

0

800



VS 6582

SH: GYSHBLK - VBLK, BLKY TO SPLT, SMTH TO WXY TXT TO LAM, SFT TO FRM	SH: GYSHBLK - VBLK, BLKY TO SPLT, SMTH TO WXY TXT TO LAM, SFT TO FRM
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