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Full Waveform Sonic

COMPANY	Excelsior Mining
WELL	NSH-014B
FIELD	Gunnison
COUNTY	Cochise
STATE	Arizona

Company Excelsior Mining
Well NSH-014B
Field Gunnison
County Cochise
State AZ

LOCATION
NSH-014B

QTR **SEC** **TWP** **RGE**

OTHER SERVICES
Electric Resistivity
Caliper

PERMANENT DATUM GROUND LEVEL **ELEVATION** NA

LOG MEAS. FROM GROUND LEVEL 0.0' **ABOVE PERMINANT DATUM**

DRILLING MEAS. FROM GROUND LEVEL

DATE ACQUIRED	20 November 2014			
RUN NUMBER	3			
LOG TYPE	Sonic			
DEPTH-DRILLER	1280'			
DEPTH-LOGGER	1280'			
BTM LOG INTERVAL	1285.8'			
TOP LOG INTERVAL	13.8'			
RECORDED BY	C. ONeil			
WITNESSED BY	C. Gardner			
PROBE TYPE, S/N	TRSS 9209			
LOGGING SPEED	12 ft/min			
A.S.D.E.	NA			
SAMPLE INTERVAL	0.1'			

BOREHOLE RECORD				**CASING RECORD**			
RUN No.	**BIT**	**FROM**	**TO**	**SIZE**	**WGT.**	**FROM**	**TO**
ONE	10"	0	1000'	12.25"	STEEL	GS	20'
	9 5/8"	1000'	TD				

NA - Not Available, N/A - Not Applicable

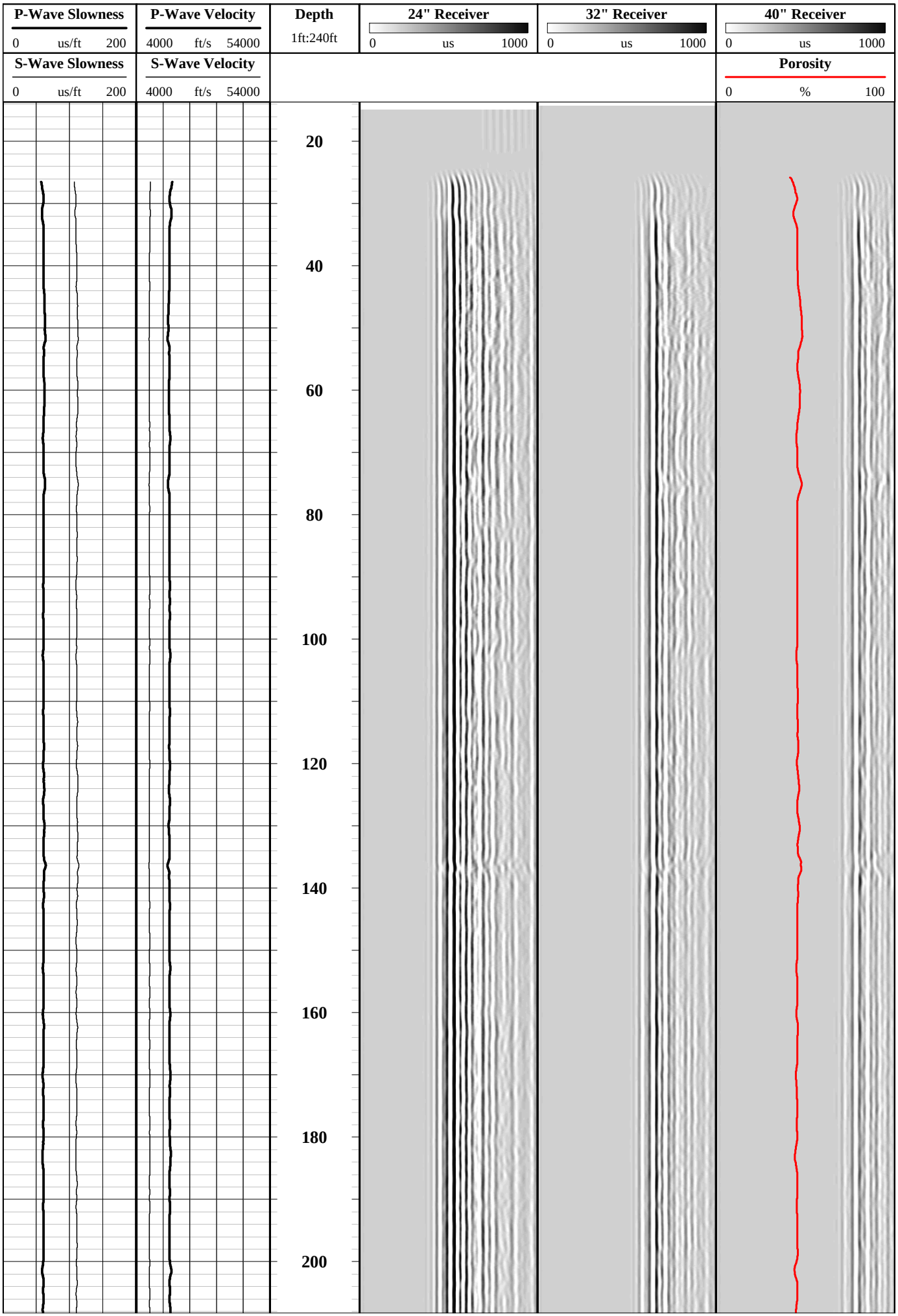
COMMENTS
Water-level = 20.1'

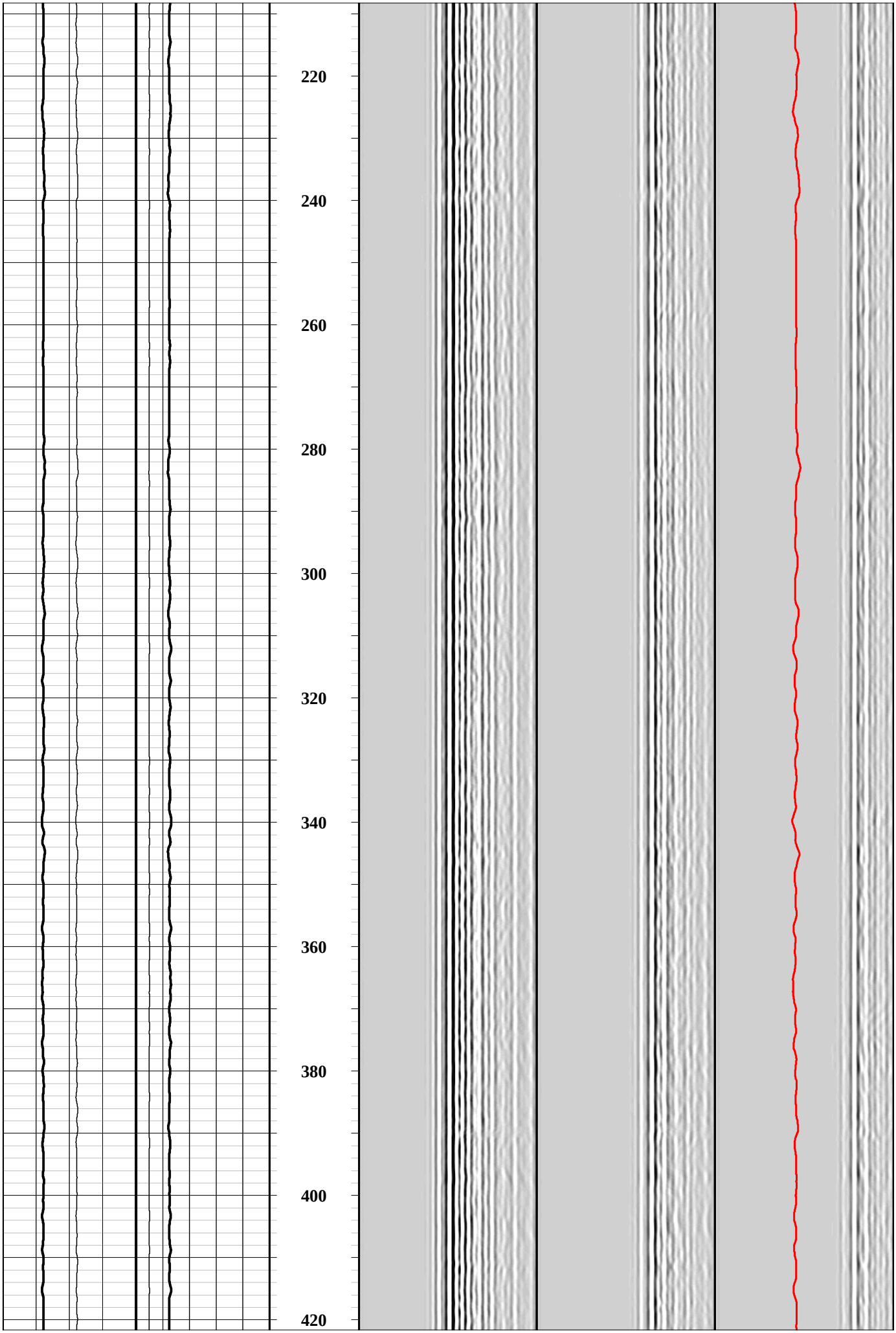
Porosity Calculation

Porosity = (delta t log - delta t matrix) / (delta t fluid - delta t matrix)

Where: delta t log = P-Wave Velocity
delta t matrix = Maximum Value of P-Wave Velocity (27400 ft/s)
delta t fluid = Fluid velocity of borehole (assumption of muddy borehole conditions ~ 3280 ft/s)

INPUT FILES:
NSH-014B Sonic.hed
NSH-014B Sonic.lgx


P-Wave Slowness
0 us/ft 200
S-Wave Slowness
0 us/ft 200
P-Wave Velocity
4000 ft/s 54000
S-Wave Velocity
4000 ft/s 54000
Depth
1ft:240ft
20
40
60
80
100
120
140
160
180
200
24" Receiver
0 us 1000
32" Receiver
0 us 1000
40" Receiver
0 us 1000
Porosity
0 % 100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400
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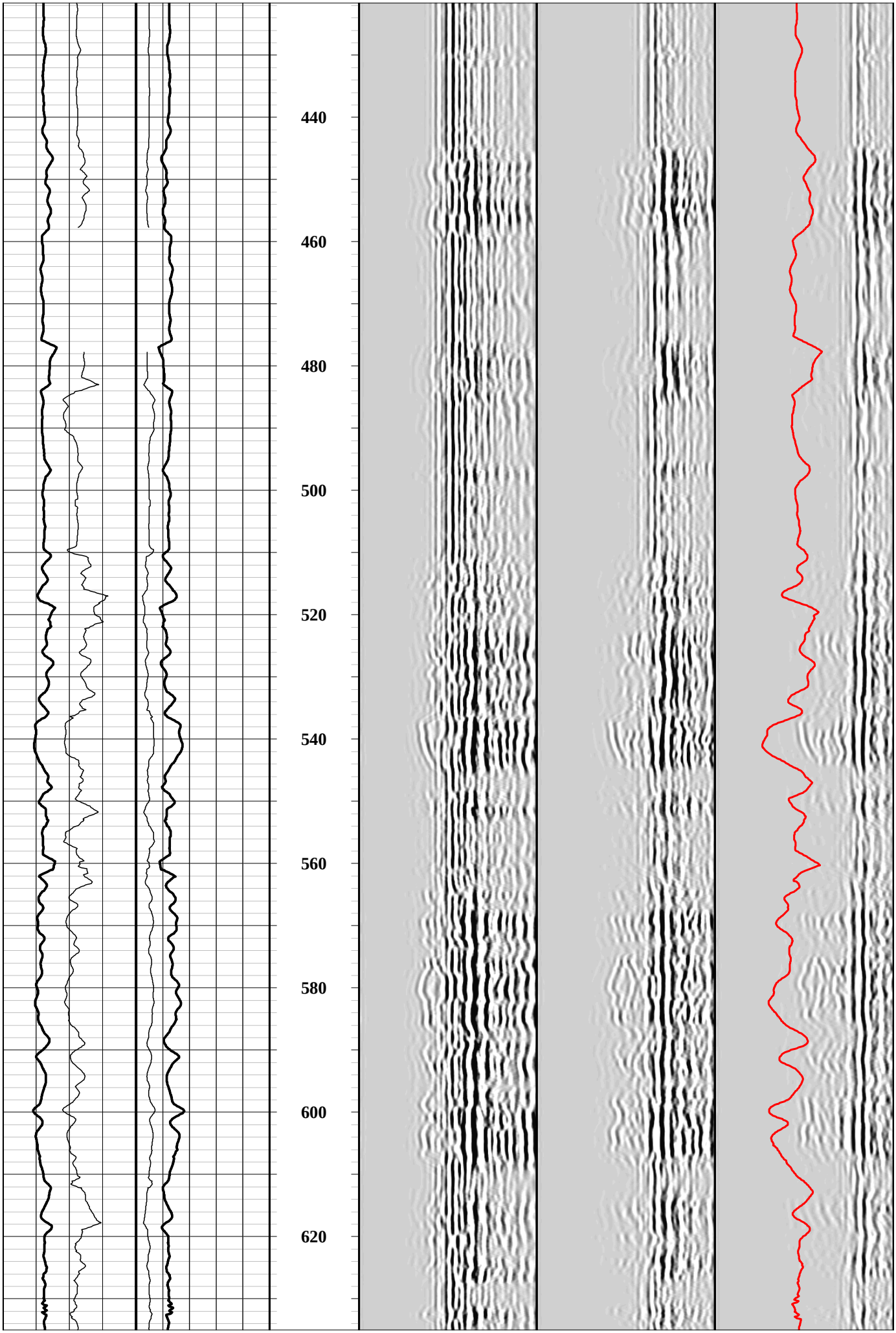
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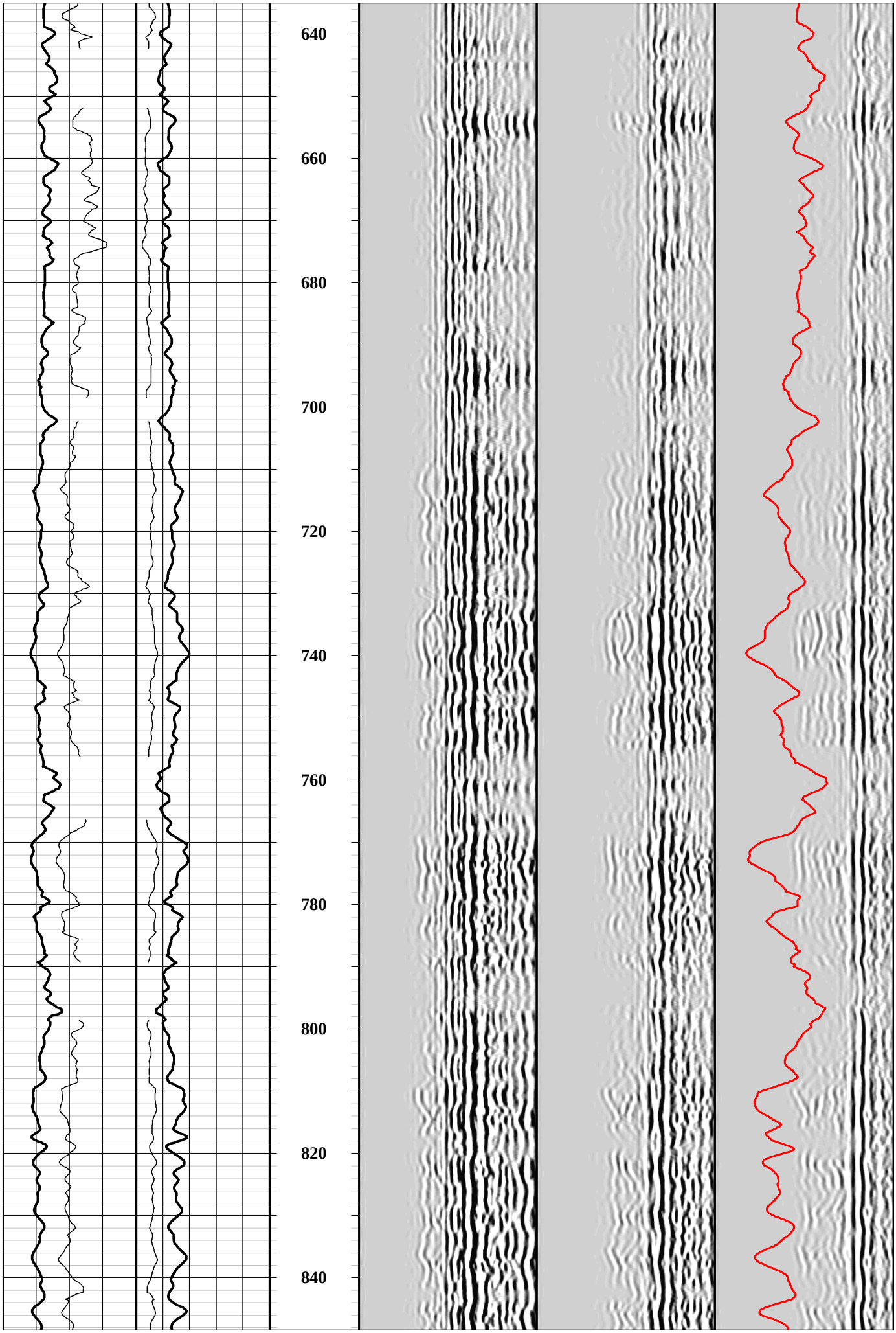
460
480
500
520
540
560
580
600
620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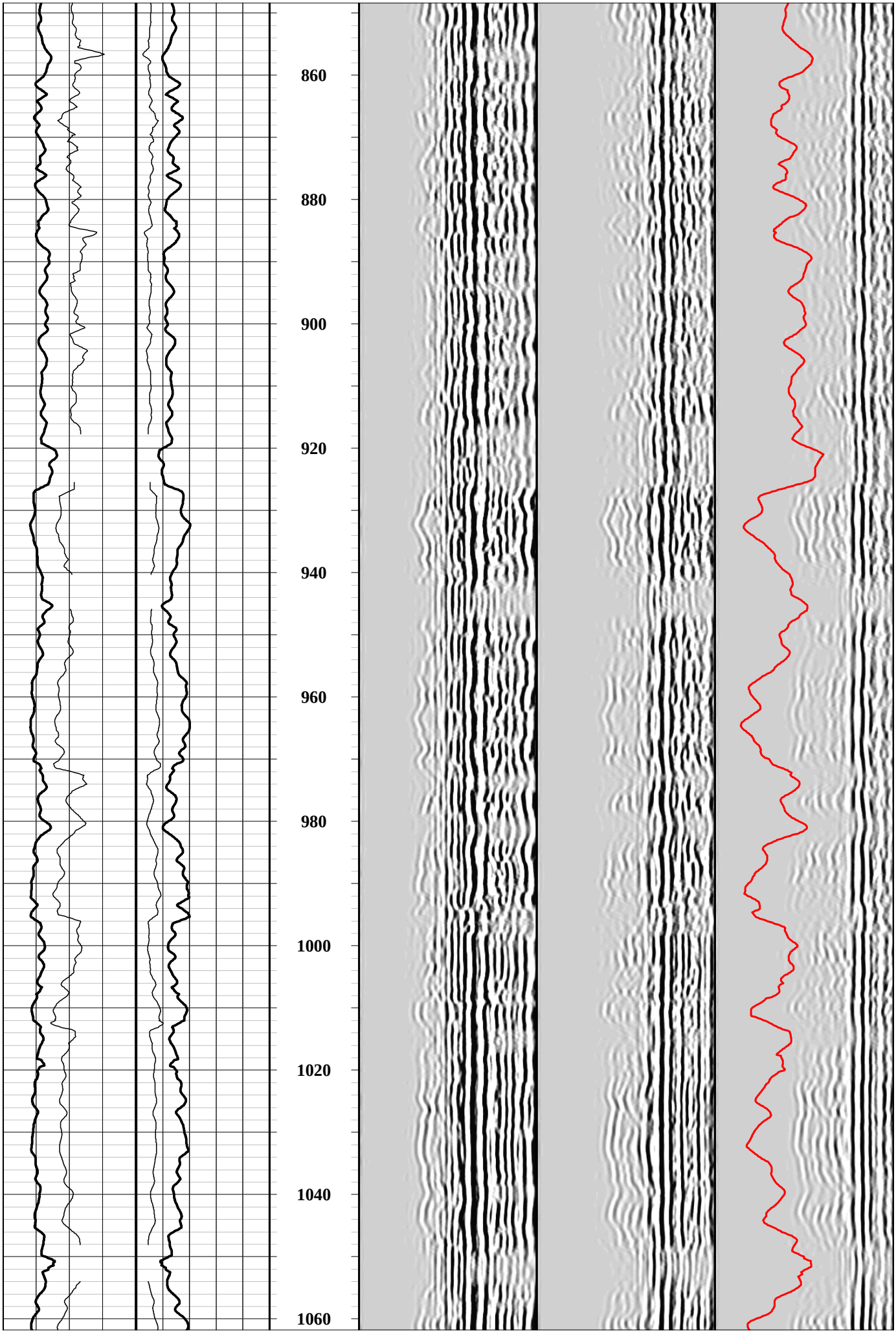
660
680
700
720
740
760
780
800
820
840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880
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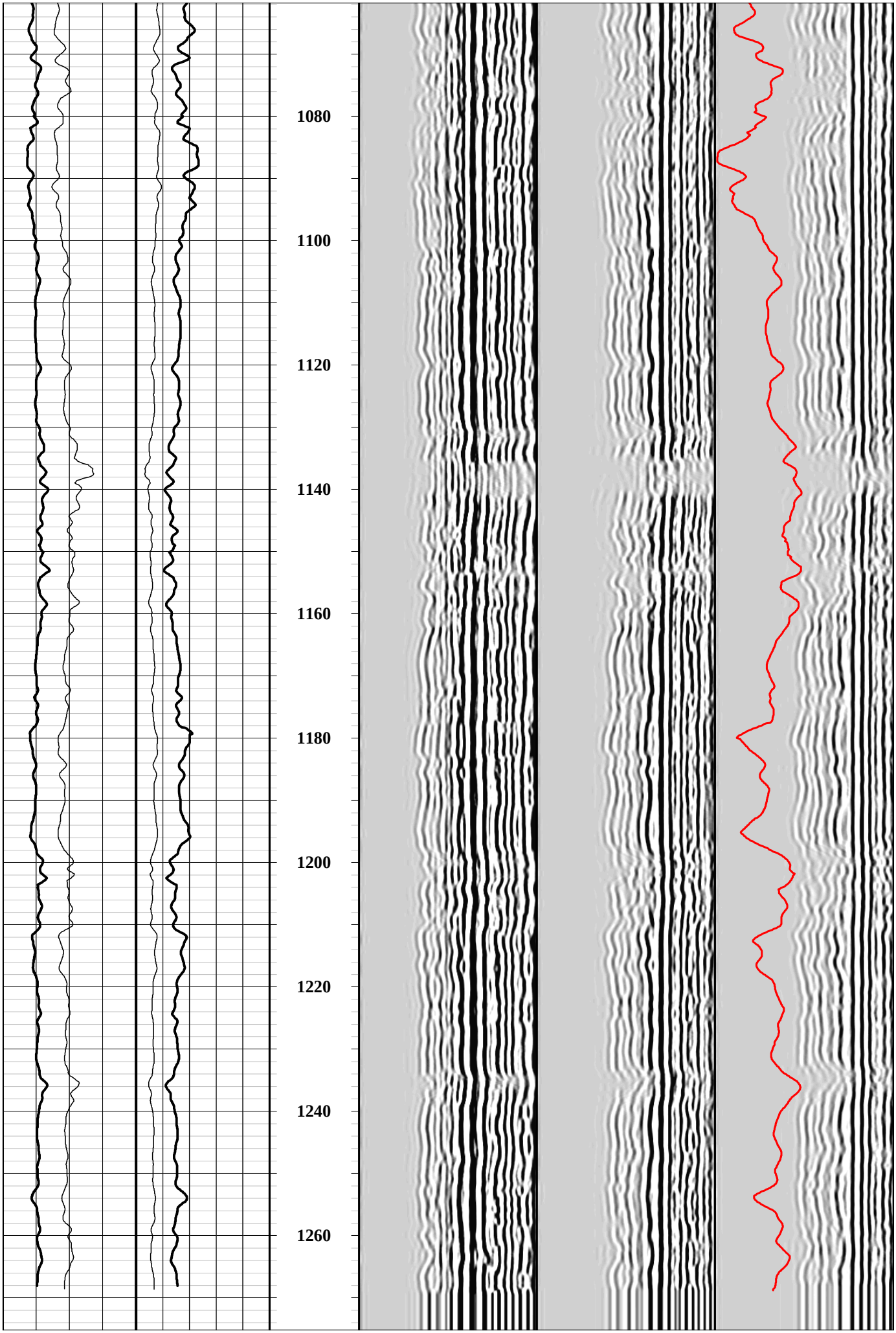
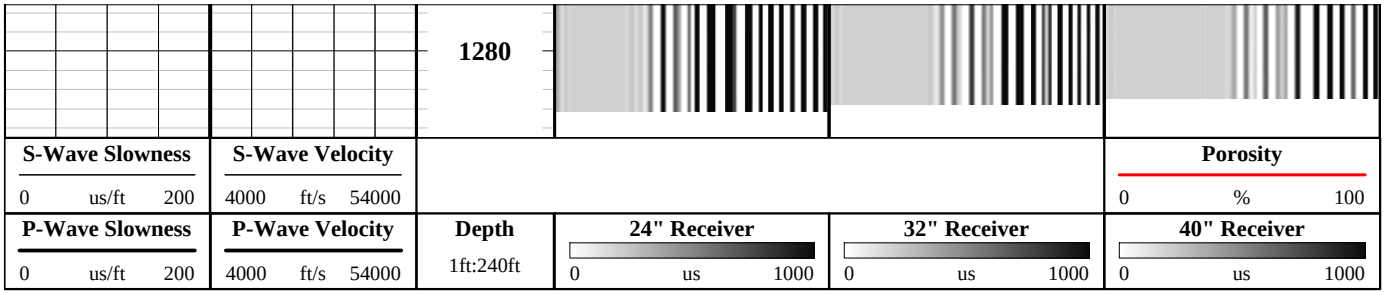
920
940
960
980
1000
1020
1040
1060


1080
1100
1120
1140
1160
1180
1200
1220
1240
1260


1280
S-Wave Slowness
0 us/ft 200
S-Wave Velocity
4000 ft/s 54000
Porosity
0 % 100
P-Wave Slowness
0 us/ft 200
P-Wave Velocity
4000 ft/s 54000
Depth
1ft:240ft
24" Receiver
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32" Receiver
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