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Full Waveform Sonic

COMPANY	Excelsior Mining
WELL	NSH-017
FIELD	Gunnison
COUNTY	Cochise
STATE	Arizona

Company Excelsior Mining
Well NSH-017
Field Gunnison
County Cochise
State AZ

LOCATION
NSH-017

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

OTHER SERVICES
Acoustic Televiewer
Optical Televiewer
Electric Resistivity
T. Fl/Res
Flow-Meter

PERMANENT DATUM GROUND LEVEL **ELEVATION** NA

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

DRILLING MEAS. FROM GROUND LEVEL

DATE ACQUIRED	3 December 2014			
RUN NUMBER	4			
LOG TYPE	Sonic			
DEPTH-DRILLER	1200'			
DEPTH-LOGGER	1200'			
BTM LOG INTERVAL	1198.8'			
TOP LOG INTERVAL	576.6'			
RECORDED BY	C. ONeil			
WITNESSED BY				
PROBE TYPE, S/N	TRSS 9209			
LOGGING SPEED	12 ft/min			
A.S.D.E.	0.09'			
SAMPLE INTERVAL	0.1'			

BOREHOLE RECORD

RUN No.	BIT	FROM	TO
ONE	12"	20'	1200'

CASING RECORD

SIZE	WGT.	FROM	TO
14"	STEEL	GS	20'

NA - Not Available, N/A - Not Applicable

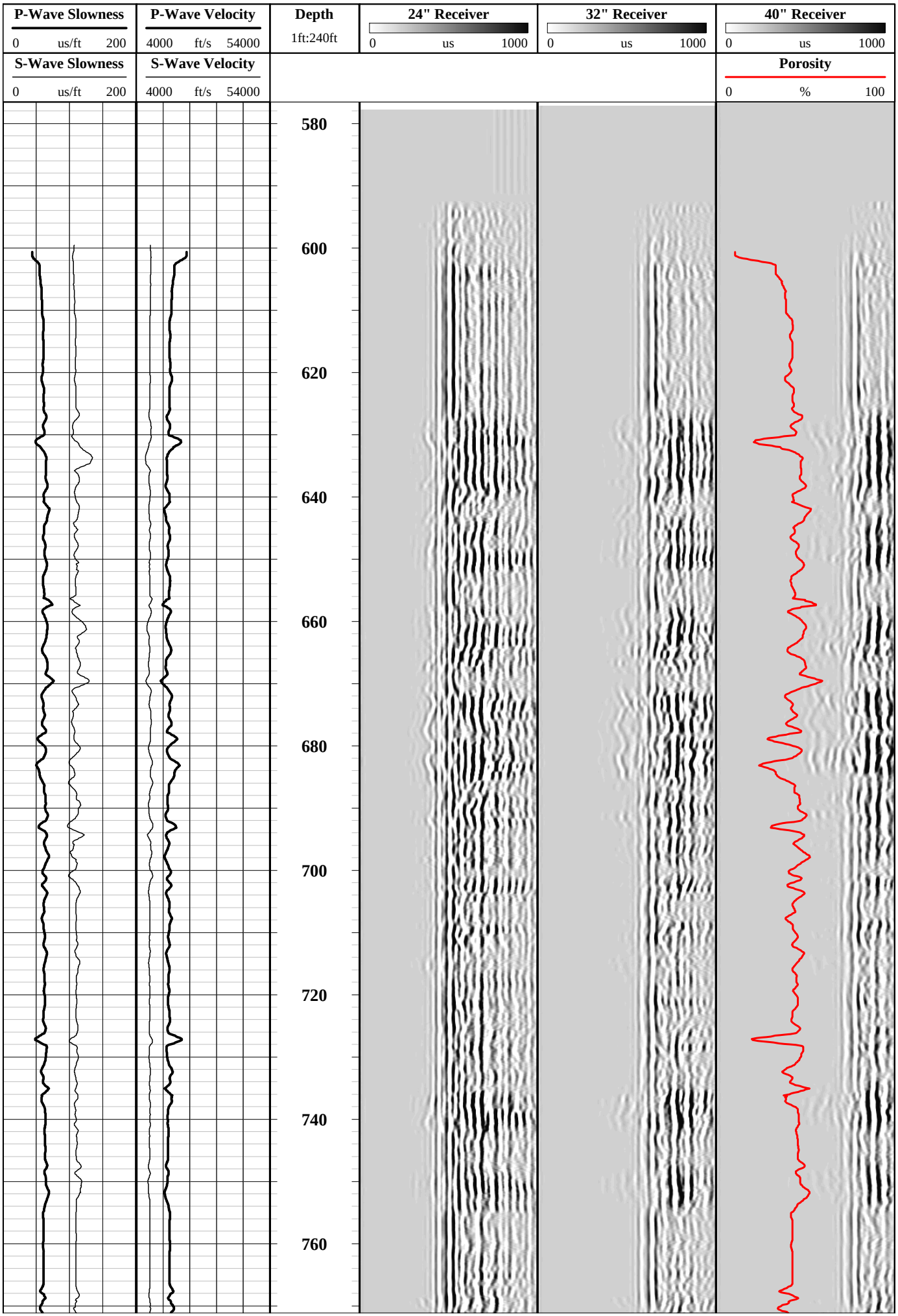
COMMENTS
Water-level = 590'

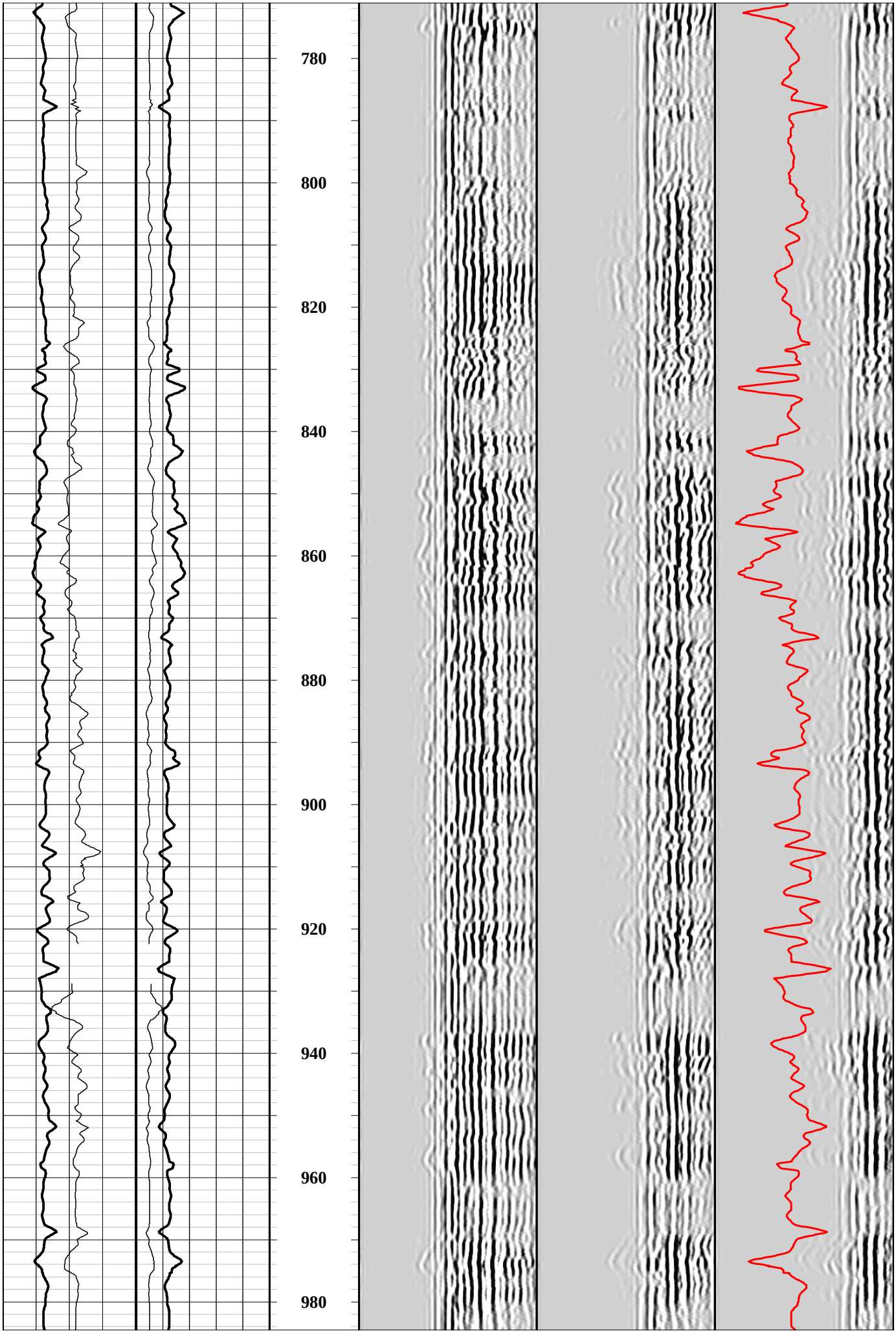
Porosity Calculation

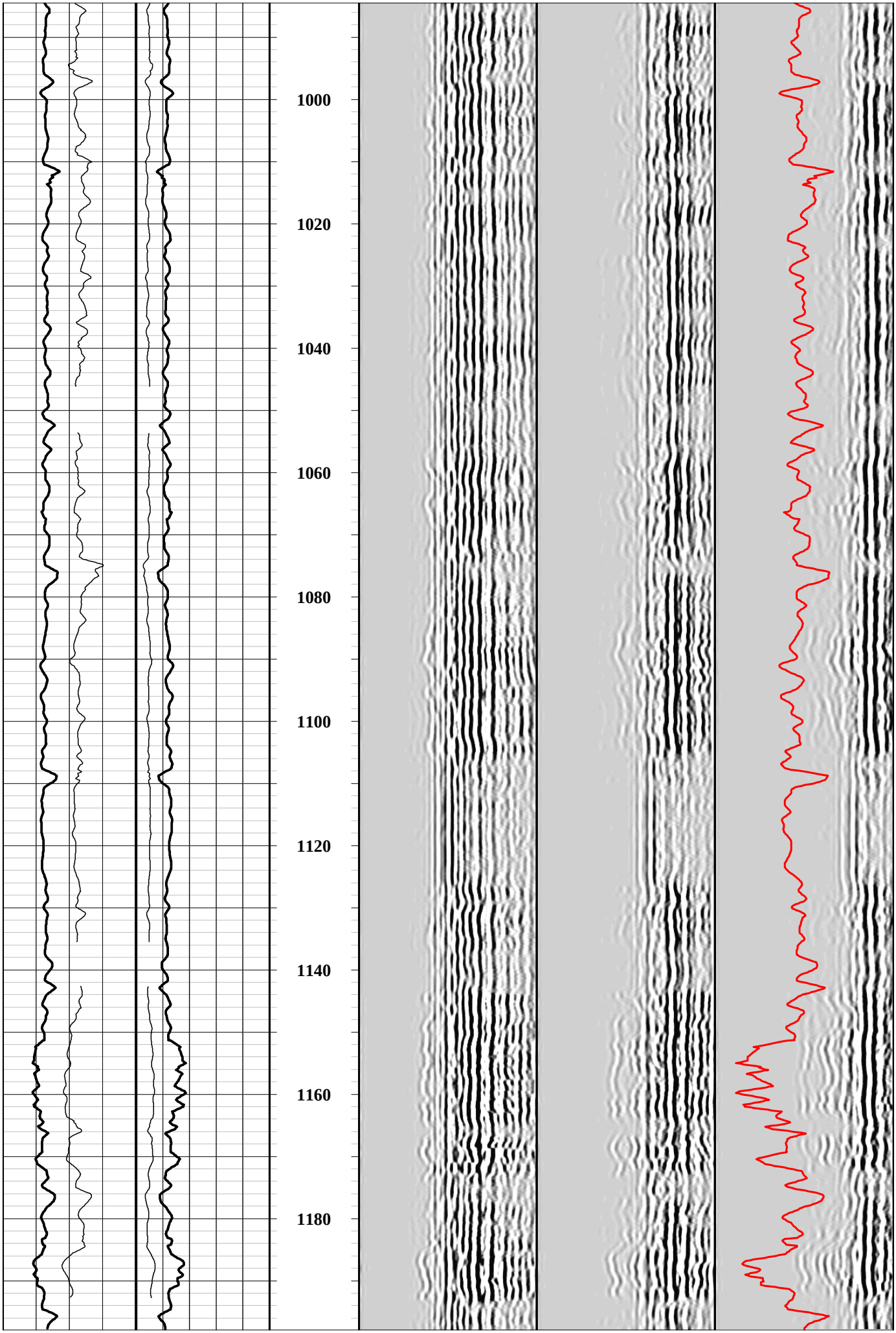
Porosity = (delta t log - delta t matrix) / (delta t fluid - delta t matrix)

Where: delta t log = P-Wave Velocity
delta t matrix = Maximum Value of P-Wave Velocity (24900 ft/s)
delta t fluid = Fluid velocity of borehole (assumption of clear water ~ 5000 ft/s)

INPUT FILES:
NSH-017 Sonic.hed
NSH-017 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
24" Receiver
0 us 1000
32" Receiver
0 us 1000
40" Receiver
0 us 1000
Porosity
0 % 100
580
600
620
640
660
680
700
720
740
760


780
800
820
840
860
880
900
920
940
960
980


1000
1020
1040
1060
1080
1100
1120
1140
1160
1180

		1200			
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** 0 us 1000	**32" Receiver** 0 us 1000	**40" Receiver** 0 us 1000