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Full Waveform Sonic

COMPANY	Excelsior Mining
WELL	NSH-024
FIELD	Gunnison
COUNTY	Cochise
STATE	AZ

Company Excelsior Mining
Well NSH-024
Field Gunnison
County Cochise
State AZ

LOCATION
NSH-024

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

OTHER SERVICES
Acoustic Televiewer
T-Fl. Res.
Electric Log
Natural Gamma
Caliper

PERMANENT DATUM Ground Surface **ELEVATION**

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

DRILLING MEAS. FROM

DATE ACQUIRED	23 January 2015			
RUN NUMBER	2			
LOG TYPE	Sonic			
DEPTH-DRILLER	1445'			
DEPTH-LOGGER	1450'			
BTM LOG INTERVAL	1448.5'			
TOP LOG INTERVAL	647.5'			
RECORDED BY	C.ONeil			
WITNESSED BY				
PROBE TYPE, S/N	TRSS, 9209			
LOGGING SPEED	13 ft/min			
A.S.D.E.	0.11'			
SAMPLE INTERVAL	0.007'			

BOREHOLE RECORD				**CASING RECORD**			
RUN No.	**BIT**	**FROM**	**TO**	**SIZE**	**WGT.**	**FROM**	**TO**
ONE	7 7/8"	625'	1440'	8"	Steel	GS	625'

NA - Not Available, N/A - Not Applicable

COMMENTS

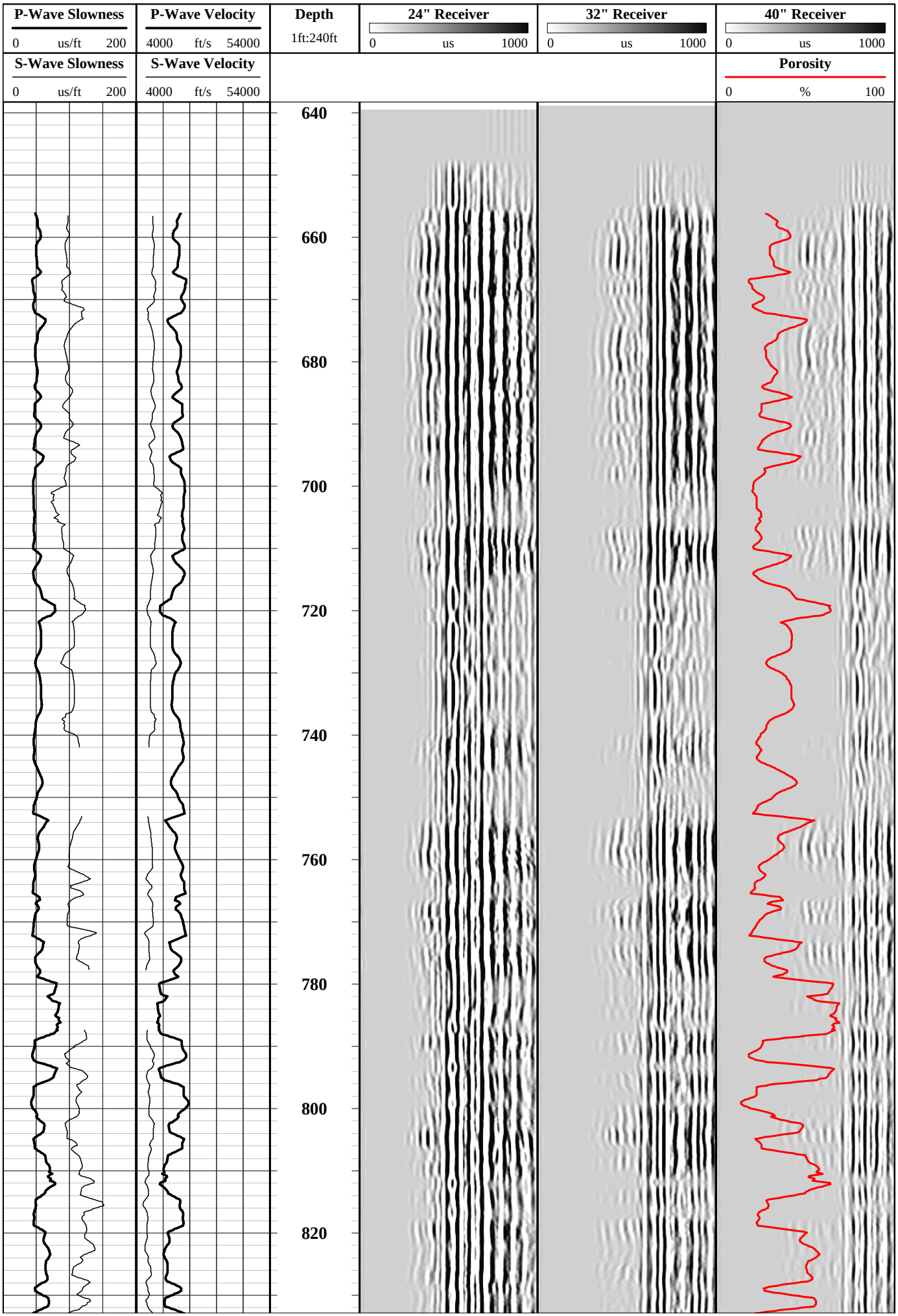
Water-level = 646.4'

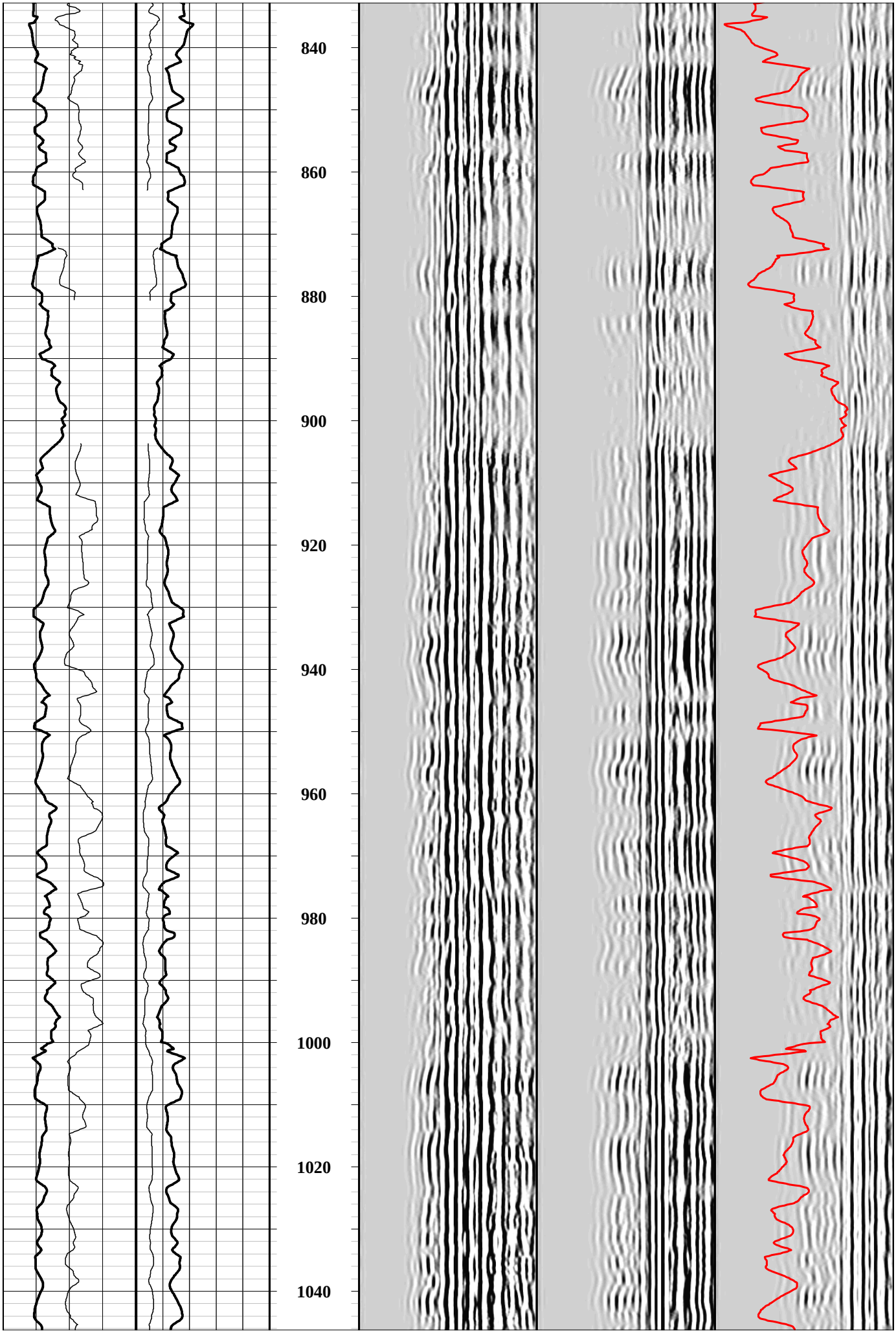
Porosity Calculation

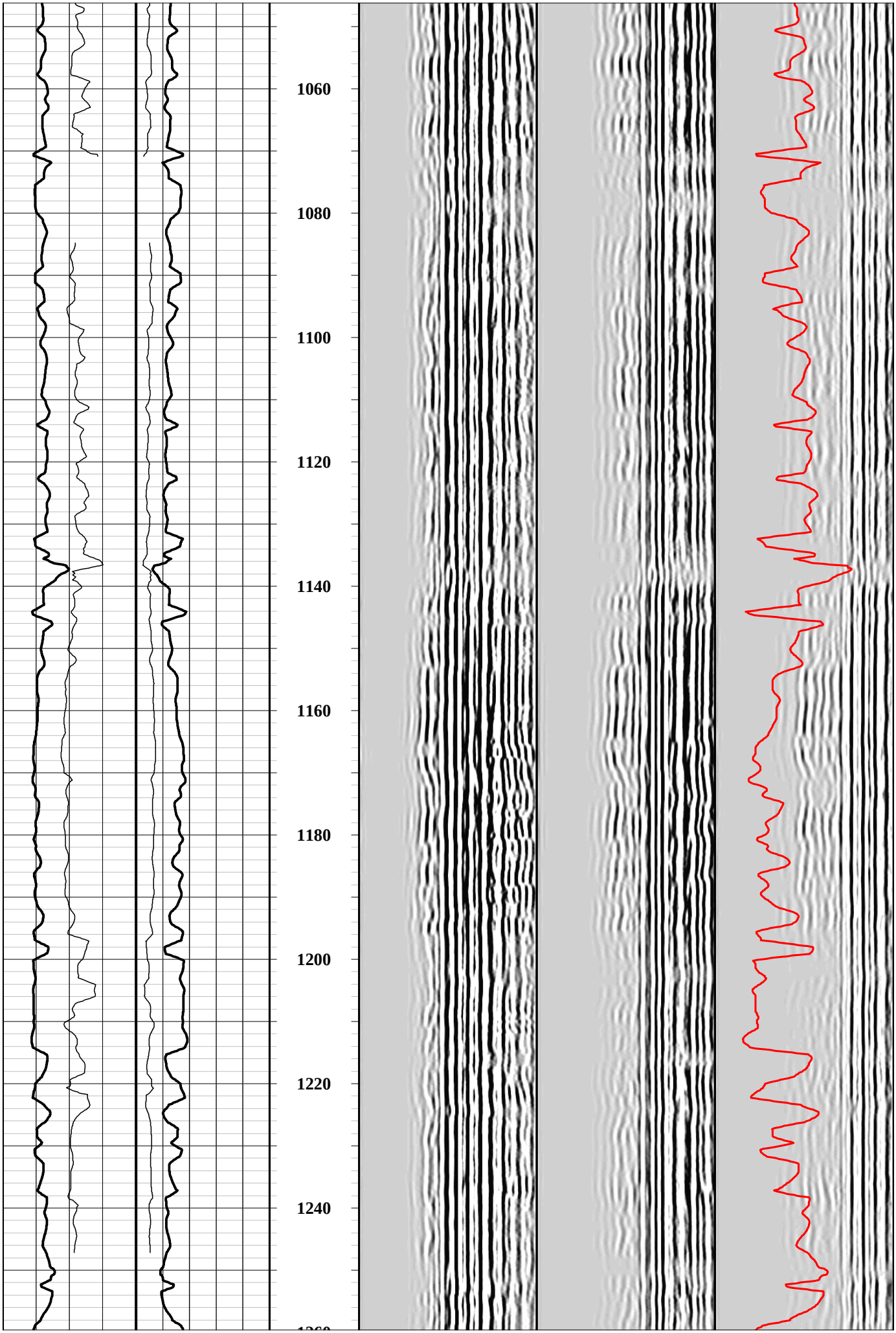
Porosity = (delta t log - delta t matrix) / (delta t fluid - delta t matrix)

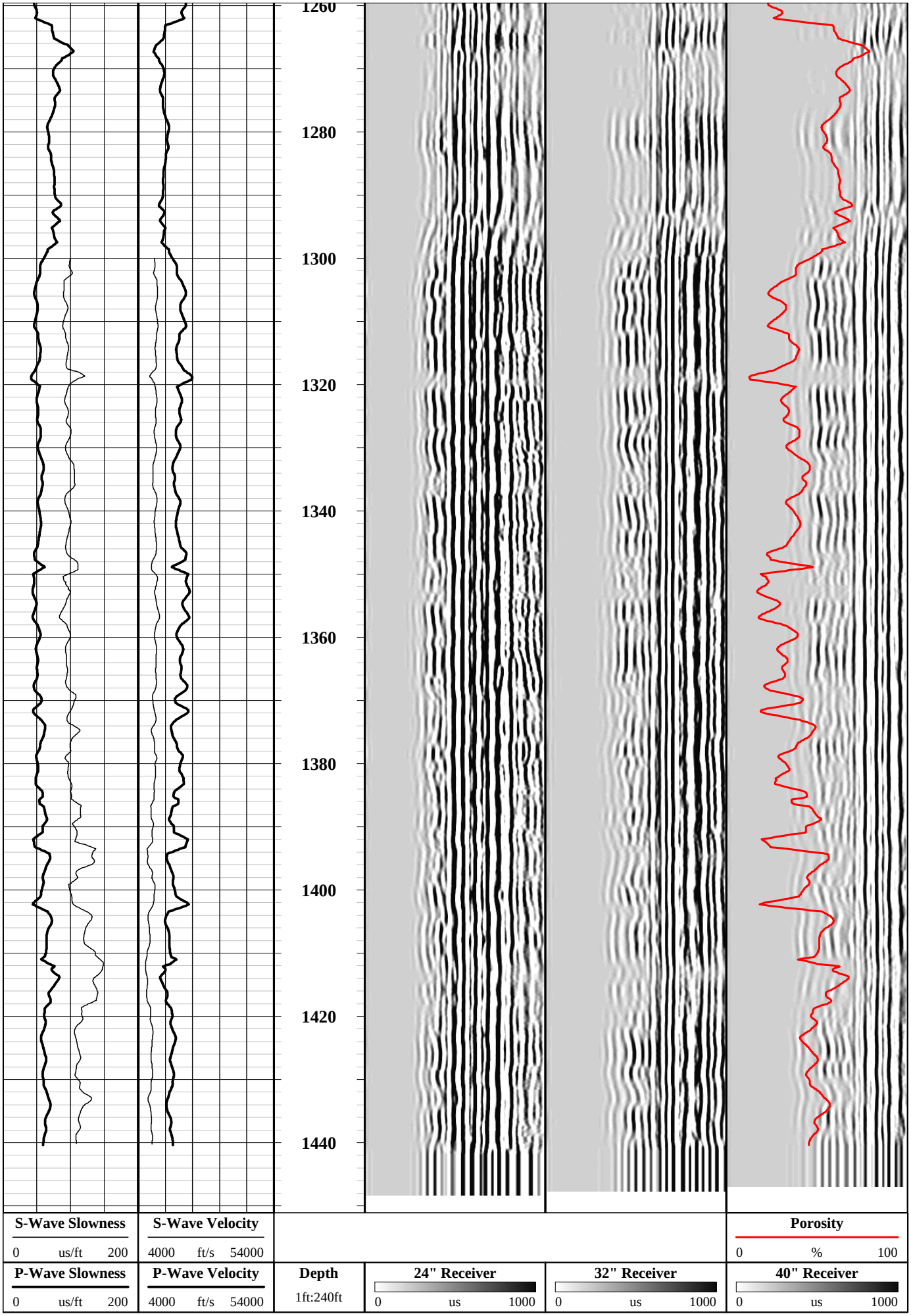
Where: delta t log = P-Wave Velocity
delta t matrix = Maximum Value of P-Wave Velocity (26500 ft/s)
delta t fluid = Fluid velocity of borehole (assumption of clear water ~ 5000 ft/s)

INPUT FILES:
NSH-024-Sonic-u.LGX
NSH-024-Sonic-u.hed


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
640
660
680
700
720
740
760
780
800
820
24" Receiver
0 us 1000
32" Receiver
0 us 1000
40" Receiver
0 us 1000
Porosity
0 % 100


840
860
880
900
920
940
960
980
1000
1020
1040


1060
1080
1100
1120
1140
1160
1180
1200
1220
1240


1260
1280
1300
1320
1340
1360
1380
1400
1420
1440
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