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Full Waveform Sonic

COMPANY	Excelsior Mining
WELL	NSH-016
FIELD	Gunnison
COUNTY	Cochise
STATE	Arizona

Company Excelsior Mining
Well NSH-016
Field Gunnison
County Cochise
State AZ

LOCATION
NSH-016

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

OTHER SERVICES
Acoustic Televiewer
Electric Resistivity
Flow-Meter
Fluid Temp/Res.

PERMANENT DATUM GROUND LEVEL **ELEVATION** NA

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

DRILLING MEAS. FROM GROUND LEVEL

DATE ACQUIRED	19 November 2014			
RUN NUMBER	4			
LOG TYPE	Sonic			
DEPTH-DRILLER	826'			
DEPTH-LOGGER	816'			
BTM LOG INTERVAL	811.6'			
TOP LOG INTERVAL	572.7'			
RECORDED BY	C. ONeil			
WITNESSED BY	Kendra			
PROBE TYPE, S/N	TRSS 9209			
LOGGING SPEED	12 ft/min			
A.S.D.E.	0.8'			
SAMPLE INTERVAL	0.1'			

BOREHOLE RECORD				**CASING RECORD**			
RUN No.	**BIT**	**FROM**	**TO**	**SIZE**	**WGT.**	**FROM**	**TO**
ONE	7 7/8"	585'	826'	8 5/8"	STEEL	GS	585'

NA - Not Available, N/A - Not Applicable

COMMENTS

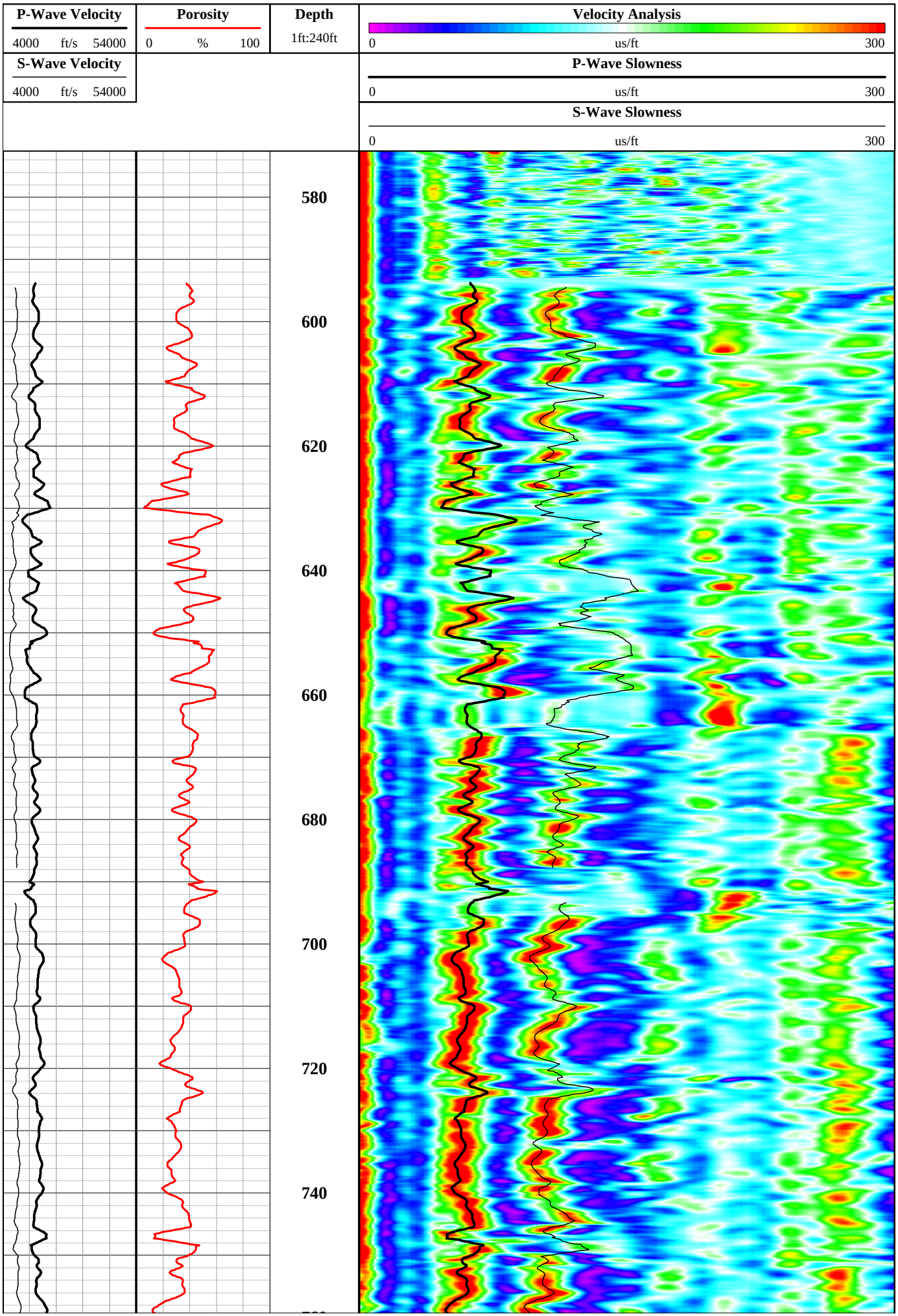
Water-level = 594.3'

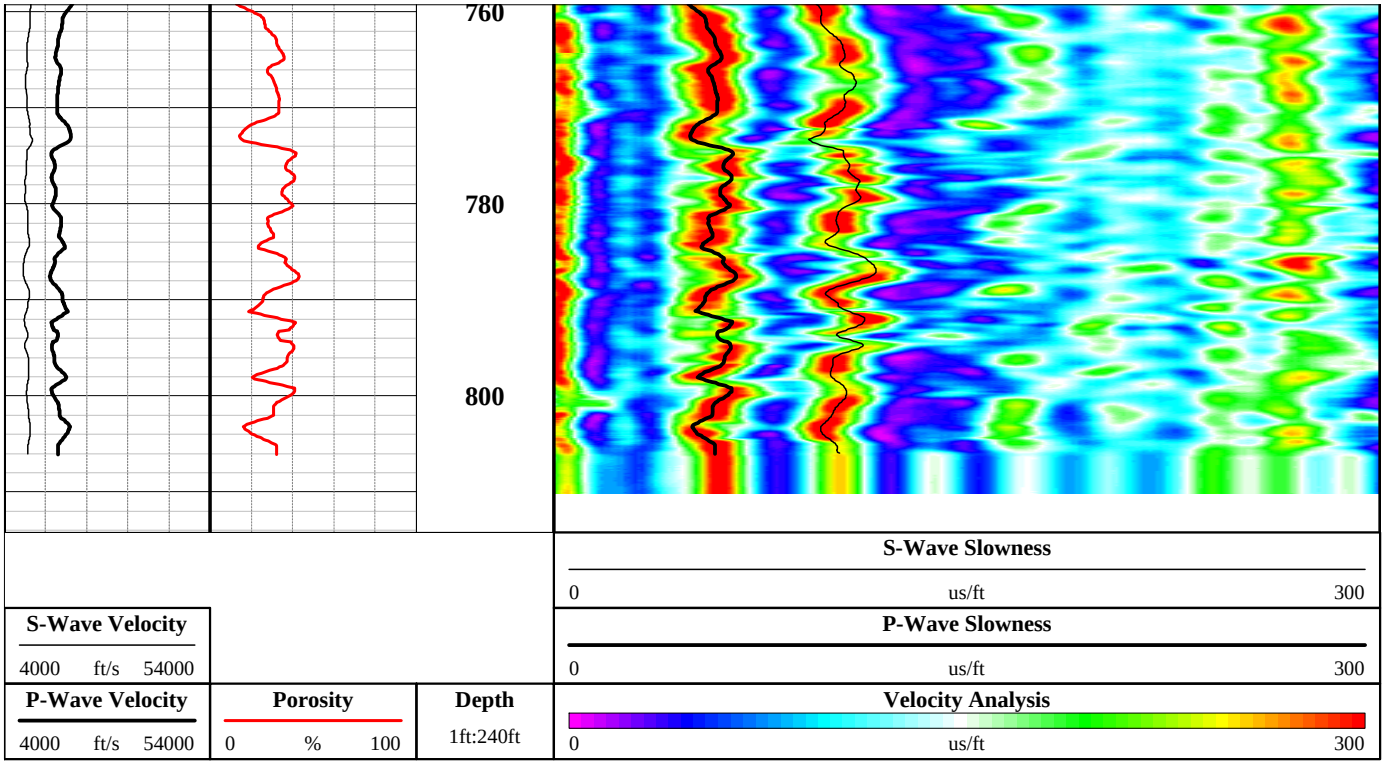
Porosity Calculation

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 (22800 ft/s)
delta t fluid = Fluid velocity of borehole (assumption of clear water ~ 5000 ft/s)

INPUT FILES:
NSH-016-Sonic-UP.hed
NSH-016-Sonic-UP.lgx


P-Wave Velocity
4000 ft/s 54000
S-Wave Velocity
4000 ft/s 54000
Porosity
0 % 100
Depth
1ft:240ft
Velocity Analysis
0 us/ft 300
P-Wave Slowness
0 us/ft 300
S-Wave Slowness
0 us/ft 300
580
600
620
640
660
680
700
720
740


760
780
800
S-Wave Slowness
0 us/ft 300
S-Wave Velocity
4000 ft/s 54000
P-Wave Slowness
0 us/ft 300
P-Wave Velocity
4000 ft/s 54000
Porosity
0 % 100
Depth
1ft:240ft
Velocity Analysis
0 us/ft 300