





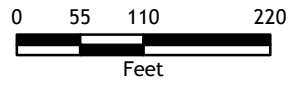


-  OGE Borings
-  OGE Geophysical Survey Lines
-  Air Shaft
-  Drift Entry
-  Vertical Mine Shaft
-  Slope Entry

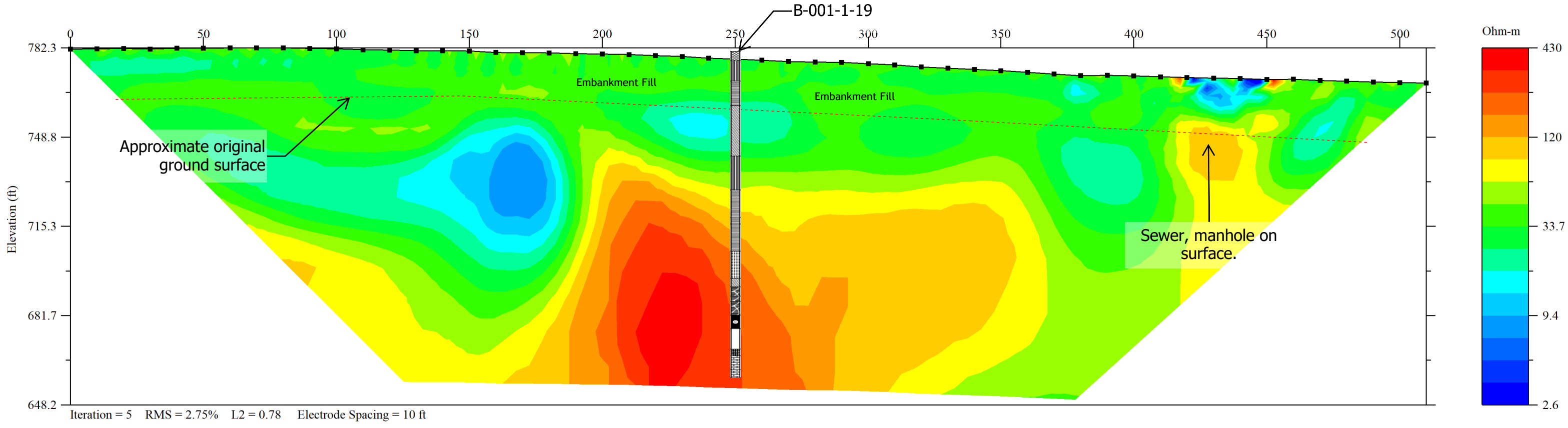
OSIP Imagery



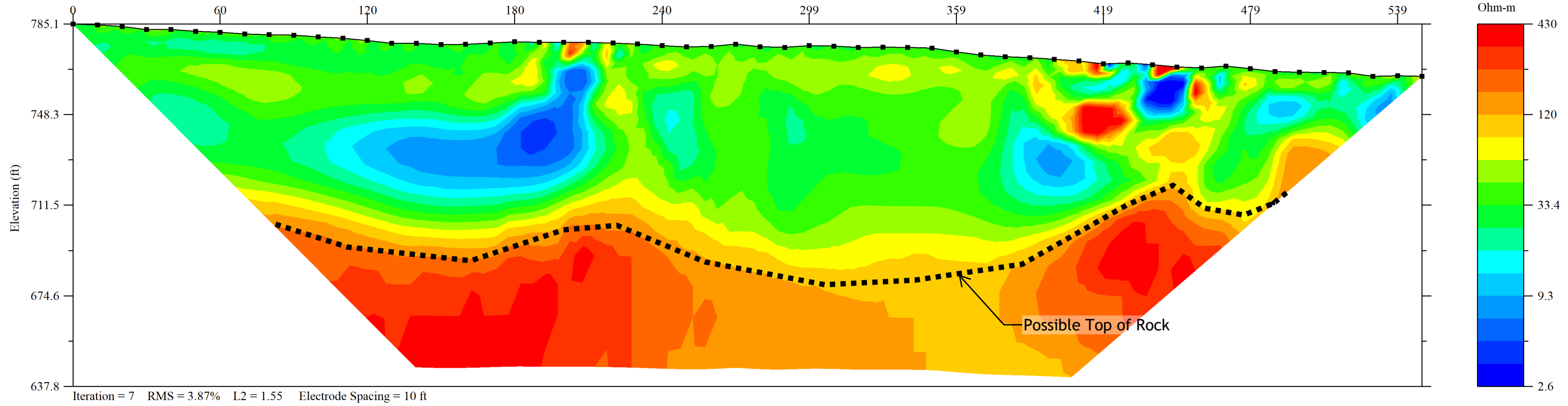
JEF-7-25.70
Exploration Plan

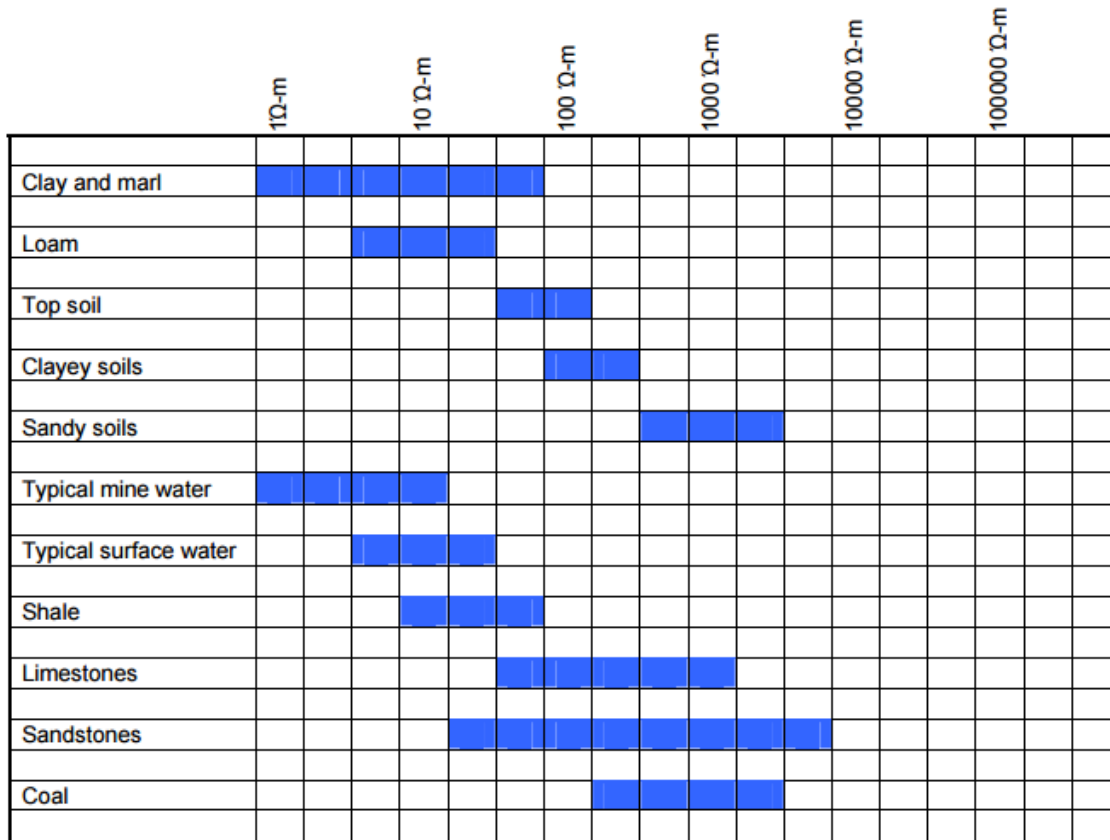


JEF-7-25.70 Line 1 Inverted Resistivity Section



JEF-7-25.70 Line 2 Inverted Resistivity Section

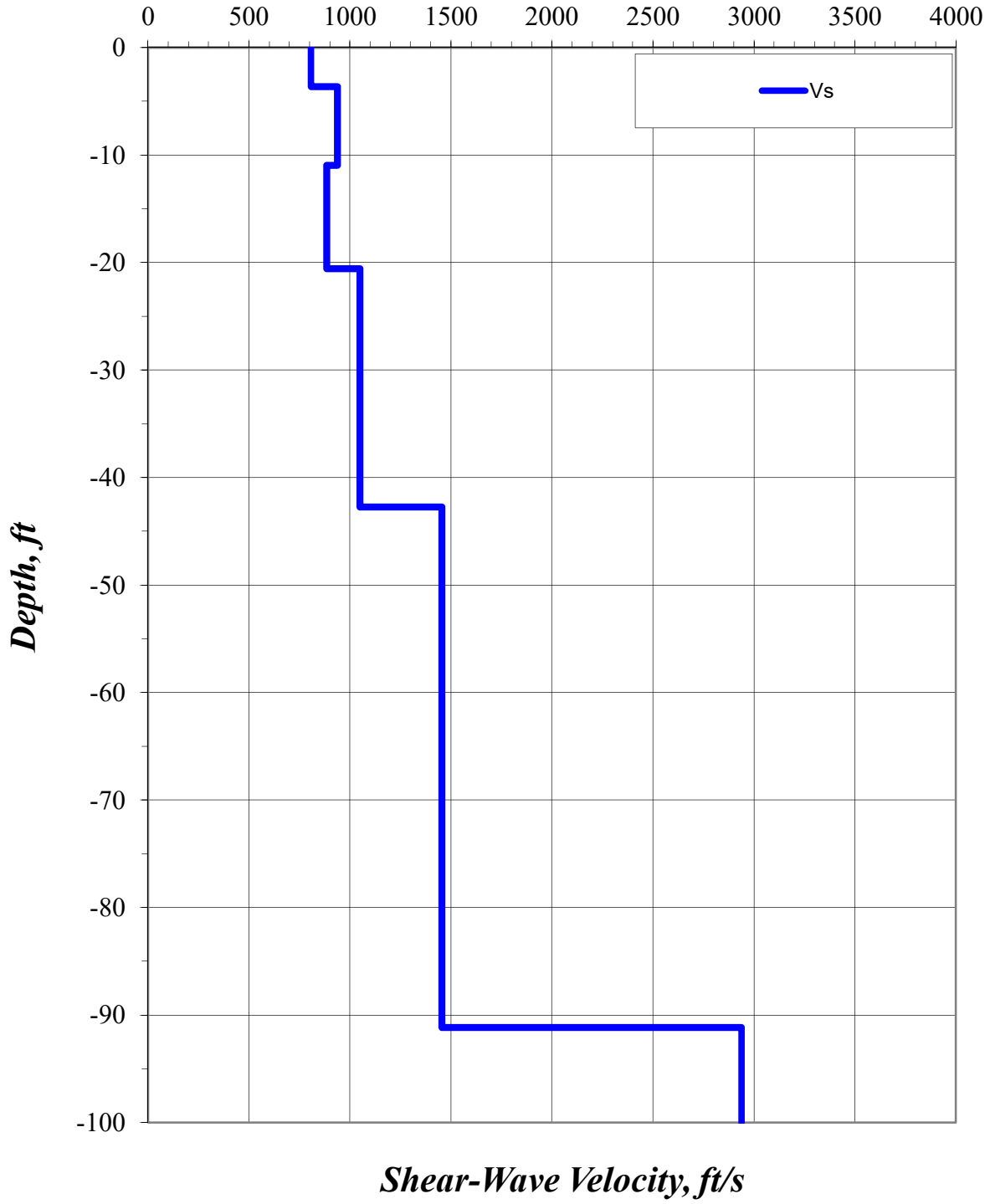




Typical resistivity range of earth materials in ohm-meters

Johnson, J. (2003) Application of the Electrical Resistivity Method for Detection of Underground Mine Workings. Monroeville, PA. Retrieved December 17, 2015 from: <https://www.fhwa.dot.gov/engineering/geotech/hazards/mine/workshops/ktwkshp/ky0311.pdf>

JEF-7-25.71 ReMi Line 1 Vs Model



Parameters That Influence Seismic Velocity

Type of formation	P wave velocity (m/s) range		S wave velocity (m/s) range		Density (g/cm ³)	P wave velocity (ft/s) range		S wave velocity (ft/s) range	
	Low	High	Low	High		Low	High	Low	High
Scree, vegetal soil	300	700	100	300	1.7-2.4	980	2290	320	980
Dry sands	400	1200	100	500	1.5-1.7	1310	3930	320	1640
Wet sands	1500	2000	400	600	1.9-2.1	4920	6560	1310	1960
Saturated shales and clays	1100	2500	200	800	2.0-2.4	3600	8200	650	2620
Marls	2000	3000	750	1500	2.1-2.6	6560	9840	2460	4920
Saturated shale and sand sections	1500	2200	500	750	2.1-2.4	4920	7210	1640	2460
Porous and saturated sandstones	2000	3500	800	1800	2.1-2.4	6560	11480	2620	5900
Limestones	3500	6000	2000	3300	2.4-2.7	11480	19680	6560	10820
Chalk	2300	2600	1100	1300	1.8-3.1	7540	8530	3600	4260
Salt	4500	5500	2500	3100	2.1-2.3	14760	18040	8200	10170
Anhydrite	4000	5500	2200	3100	2.9-3.0	13120	18040	7210	10170
Dolomite	3500	6500	1900	3600	2.5-2.9	11480	21320	6230	11810
Granite	4500	6000	2500	3300	2.5-2.7	14760	19680	8200	10820
Basalt	5000	6000	2800	3400	2.7-3.1	16400	19680	9180	11150
Gneiss	4400	5200	2700	3200	2.5-2.7	14430	17060	8850	10490
Coal	2200	2700	1000	1400	1.3-1.8	7210	8850	3280	4590
Water	1450	1500	-	-	1.0	4750	4920	-	-
Ice	3400	3800	1700	1900	0.9	11150	12460	5570	6230
Oil	1200	1250	-	-	0.6-0.9	3930	4100	-	-

Adapted from typical rock velocities, from Bourbié, Coussy, and Zinszner. (1987) Acoustics of Porous Media, Gulf Publishing.