Quantec Geoscience Ltd.

A COMPARISON OF VARIOUS ELECTRICAL ARRAYS BASED ON 30 TECHNICAL PAPERS, STUDIES AND TEXTBOOKS

CHARACTERISTICS	Dipole-Dipole	Pole-Dipole	Pole-Pole	Schlumberger Sounding	Gradient
Horizontal resolution	3	2	3	2	4
Vertical resolution	2	2	1	3	0
Depth of investigation	3	2	2	4	4
Ease of interpretation	3	2	2	4	4
General shape and dimensions of target	2	2	1	4	2
Dip angle (attitude)	2	1	0	2	4
Magnitude of response of sub-vertical near surface target	5	4	4	2	2
Magnitude of response of sub-horizontal near surface target	2	2	2	4	2
Resolution versus depth of exploration	2	1	0	3	3
Penetration of conductive cover	2	3	2	4	4
Penetration of the broad cover of high conductivity and chargeability	0	0	0	2	2
Freedom from overburden irregularities	4	3	2	1	1
Freedom from EM coupling	4	3	3	1	0
Uniformity in exploration levels	5	5	5	5	0
Semi-logarithmic depth level increments	1	2	3	5	0
Field production	3	4	5	1	5
Transmitter power	3	3	3	2	2
On site interpretation with project geologist	1	1	1	2	4
Logistic operations (current electrode grounding, flexibility etc.)	2	3	2	1	4
TOTAL SUM OF POINTS / 95	49	45	41	52	47

Note: 0 & 1 are weak points , while 4 & 5 are strong points in the system