

## Standard Penetration Test with Energy Summary and Results



Job No: 14-02091  
Client: Mount Polley Mining Corporation  
Project: Mount Polley Mine, Likely, BC  
Start Date: 25-Oct-2014  
End Date: 27-Oct-2014

### **STANDARD PENETRATION TEST WITH ENERGY SUMMARY**

Borehole ID	Date From	Date To	Hammer Type	Hammer Weight (lbs)	Estimated Drop Height (in)	Potential Energy (lb-ft)	Northing <sup>1</sup> (m)	Easting (m)	Refer to Notation Number
SPTe14-05	25-Oct-2014	25-Oct-2014	Automatic Hammer	140	30	350	5819915	595187	
SPTe14-05b	25-Oct-2014	27-Oct-2014	Automatic Hammer	140	30	350	5819924	595184	

1. Coordinates were obtained using a handheld GPS in datum NAD83, UTM zone 10 North.

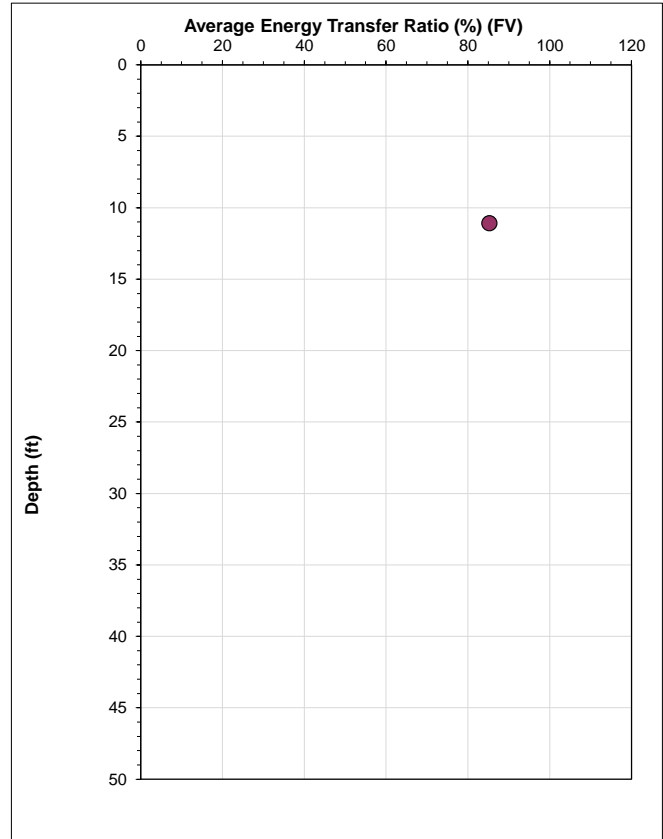
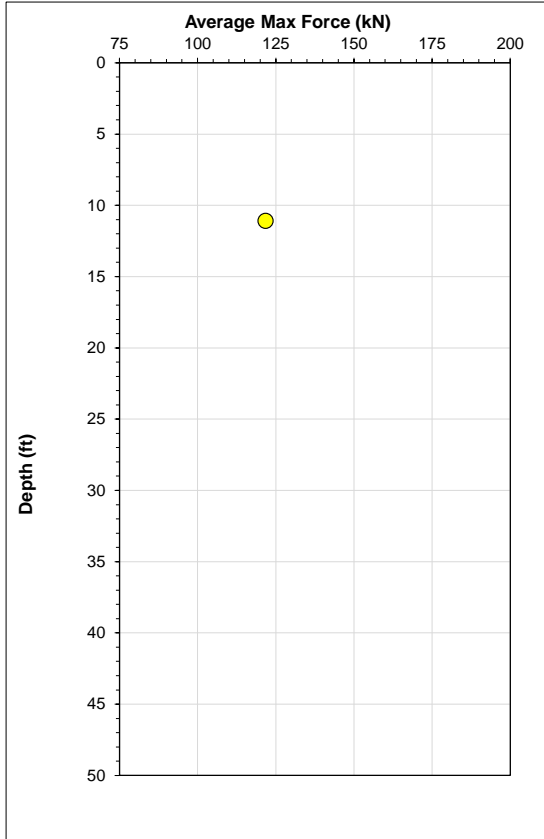


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Borehole ID: SPTe14-05  
Rig: Fraste XL  
Hammer: Automatic Hammer

### STANDARD PENETRATION TEST ENERGY RESULTS

Test Start Depth (ft)	Instrument Rod Type	Instrumented Rod Area (in <sup>2</sup> )	Rod String Type	Total Number of Impacts Analyzed	Recorded Blow Counts 0"-6"	Recorded Blow Counts 6"-12"	Recorded Blow Counts 12"-18"	Recorded Blow Counts 18"-24"	Average Max Force (kN)	Average Max Energy (kN-m)	Average Energy Transfer Ratio (FV) (%)
11.1	AWJ	1.20	AWJ	16		8	9	11	121.8	0.41	85.3





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 Rig: Fraste XL  
 Hammer: Automatic Hammer

### STANDARD PENETRATION TEST ENERGY RESULTS

Test Start Depth (ft)	Instrument Rod Type	Instrumented Rod Area (in <sup>2</sup> )	Rod String Type	Total Number of Impacts Analyzed	Recorded Blow Counts 0"-6"	Recorded Blow Counts 6"-12"	Recorded Blow Counts 12"-18"	Recorded Blow Counts 18"-24"	Average Max Force (kN)	Average Max Energy (kN-m)	Average Energy Transfer Ratio (FV) (%)
14.3	AWJ	1.20	AWJ	8	4	4	3	4	129.9	0.43	89.6
17.0	AWJ	1.20	AWJ	20	3	6	5	6	131.1	0.42	88.6
20.0	AWJ	1.20	AWJ	23	3	6	6	7	114.0	0.41	87.3
22.8	AWJ	1.20	AWJ	18	2	4	6	6	117.6	0.41	86.4
25.5	AWJ	1.20	AWJ	15	2	4	4	5	109.3	0.42	88.0
28.8	AWJ	1.20	AWJ	16	5	4	3	5	126.4	0.41	86.3
31.6	AWJ	1.20	AWJ	27	3	5	6	9	118.1	0.40	85.2
34.5	AWJ	1.20	AWJ	35	3	9	10	13	115.4	0.39	81.1
37.5	AWJ	1.20	AWJ	35	4	7	9	12	119.9	0.39	81.8
40.4	AWJ	1.20	AWJ	30	5	6	9	10	115.2	0.40	83.9
43.4	AWJ	1.20	AWJ	19	2	4	6	7	129.8	0.38	80.9

