



**Lake Rosebery EL 41/2010**

**APPENDIX**

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## Appendix 1 (25K geology legend Part 1)

**EI 41/2010**

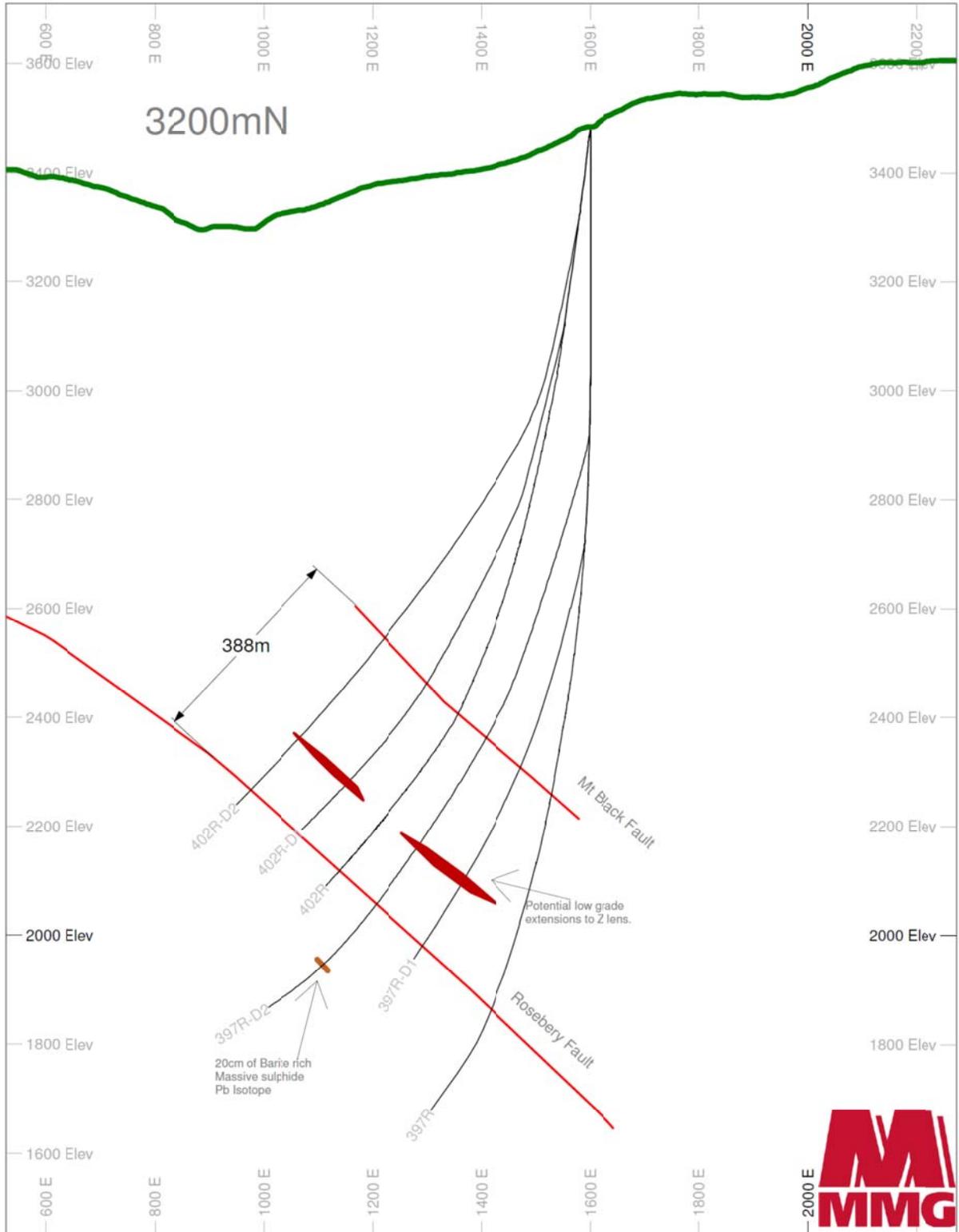
### **25K Geology Legend**

	<i>Felsic lava, usually feldspar-phyric, commonly with spherulitic groundmass, within Central Volcanic Complex Central Volcanic Complex</i>
	<i>Basaltic dykes, typically chlorite-altered.</i>
	<i>Well-bedded micaceous quartzwacke sandstone with interbedded siltstone, black shale and minor volcanoclastic rocks. Miners Ridge Sandstone, Animal Creek Greywacke, and correlates.</i>
	<i>Pumice-bearing volcanoclastic rocks, usually with eutaxitic texture, within Central Volcanic Complex. Central Volcanic Complex</i>
	<i>Mainly felsic volcanoclastic and pyroclastic rocks, usually feldspar-phyric, including pumice-bearing units, of Central Volcanic Complex Central Volcanic Complex</i>
	<i>Dacitic lavas, usually feldspar-hornblende-phyric, commonly epidote-altered, within Central Volcanic Complex. Central Volcanic Complex</i>
	<i>Black and ash-flow breccia, with lithic clasts and pumice casts, within Central Volcanic Complex. Central Volcanic Complex</i>
	<i>Pleistocene glacial and glaciogene deposits.</i>
	<i>Fine-grained vitriclastic mudstone. Central Volcanic Complex</i>
	<i>Undifferentiated feldspar-phyric volcanic and volcanoclastic rocks of Central Volcanic Complex. Central Volcanic Complex</i>
	<i>Feldspar-quartz porphyry, commonly spherulitic, usually intrusive.</i>
	<i>Geology not mapped.</i>
	<i>Units of interbedded siltstone, sandstone and shale within Central Volcanic Complex. Central Volcanic Complex</i>
	<i>Units of chert and chert-pyrite rock within Central Volcanic Complex (e.g. at Chester Mine).</i>

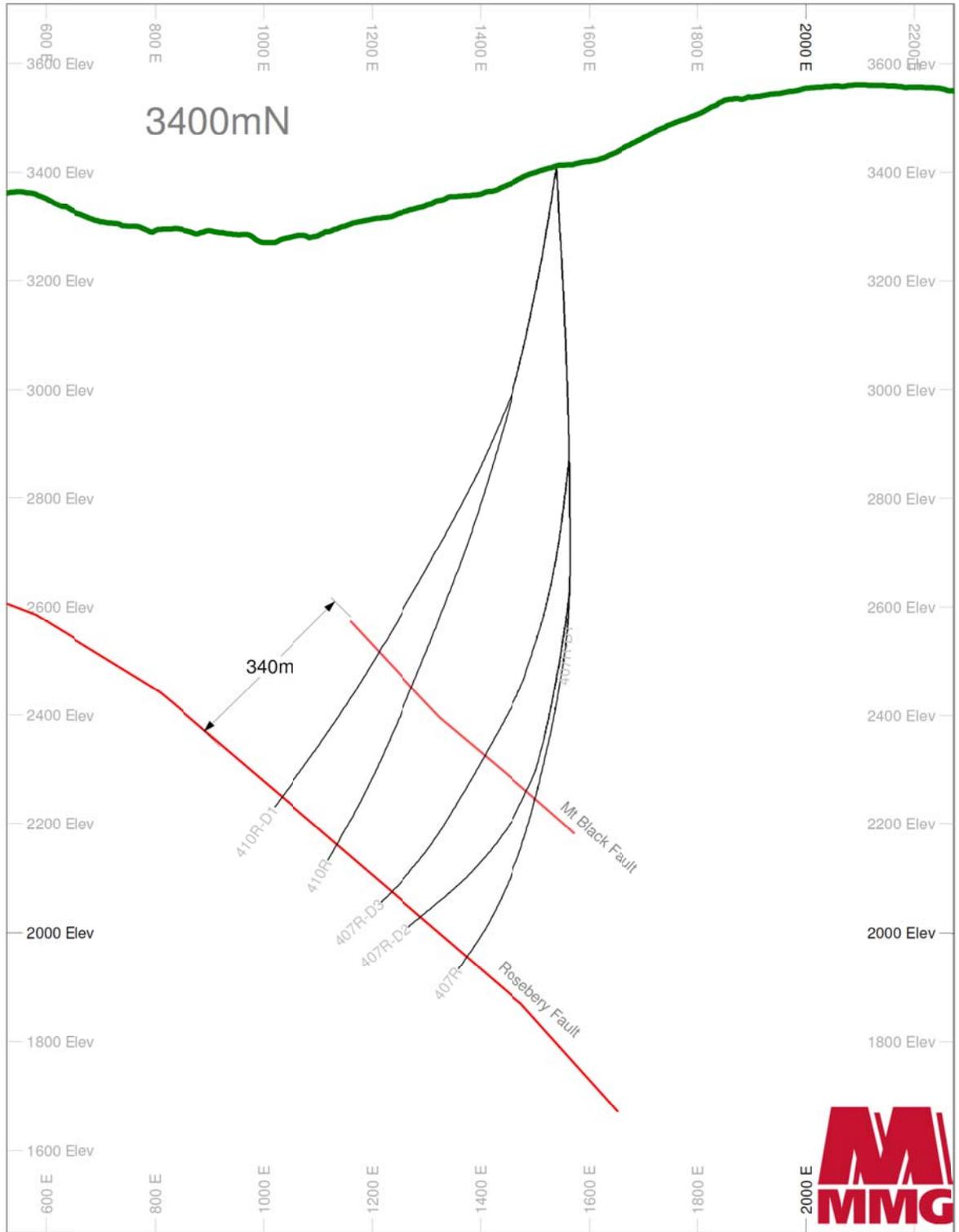
## Appendix 2 (25K geology legend Part 2)

	Quartz and feldspar +- biotite porphyry.
	Talus, till and scree of probable Pleistocene age.
es 	Stream alluvium, swamp and marsh deposits.
	Dolomitic mudstone, siltstone and sandstone, with interbeds of volcanoclastic conglomerate, sandstone in places. Rosebery Group
	Polymict, conglomerate, typically calcareous, fuchsite-bearing in some areas. Rosebery Group
	Micaceous quartzwacke sandstone - siltstone - conglomerate sequence, with interbeds of calcareous, polymict and felsic volcanoclastic conglomerate in places. Includes Stitt Qua. Rosebery Group
	Units of coarse-grained crystal-rich (quartz, feldspar) volcanoclastic sandstone within Western Volcano-Sedimentary Sequences. Yolande River Sequence
	Man-made deposits.
	Felsic to intermediate volcanoclastic, volcanic and sedimentary rocks. Late Middle Cambrian fossils in places. Tyndall Group and correlates, including part of lower Dundas Group. Tyndall Group
	Shale - siltstone - minor sandstone units (includes Rosebery Shale)
	Fluvioglacial and lacustrine deposits.
	Dominantly andesitic lavas, breccias, volcanoclastic rocks and possible intrusives. Typically calc-alkaline, commonly feldspar-pyroxene-phyric.
	Basaltic lava and breccia within Central Volcanic Complex Central Volcanic Complex

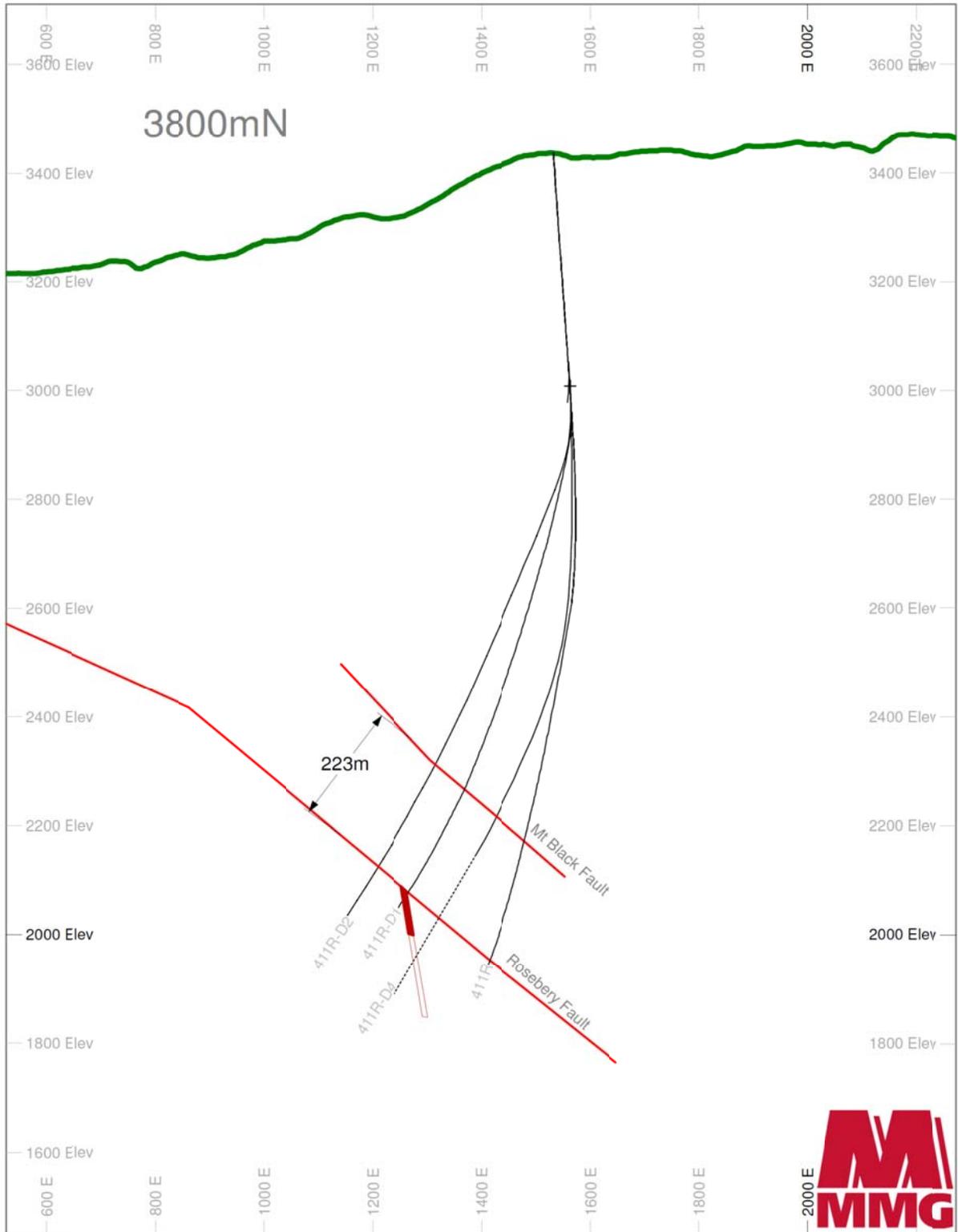
Appendix 3 (3200mN cross section showing potential extensions to Z lens)



Appendix 4 (3400mN cross section, no significant mineralisation)



Appendix 5 (3800mN cross section, mineralization is interpreted below the Rosebery Fault)





## Sirotope

### Result, Data Plot and Interpretation of Pb isotope analysis of galena sample from Rosebery, Tasmania

Prepared For: Todd McGilvray

Prepared By: Graham Carr

Date:08/09/2011

#### Sample

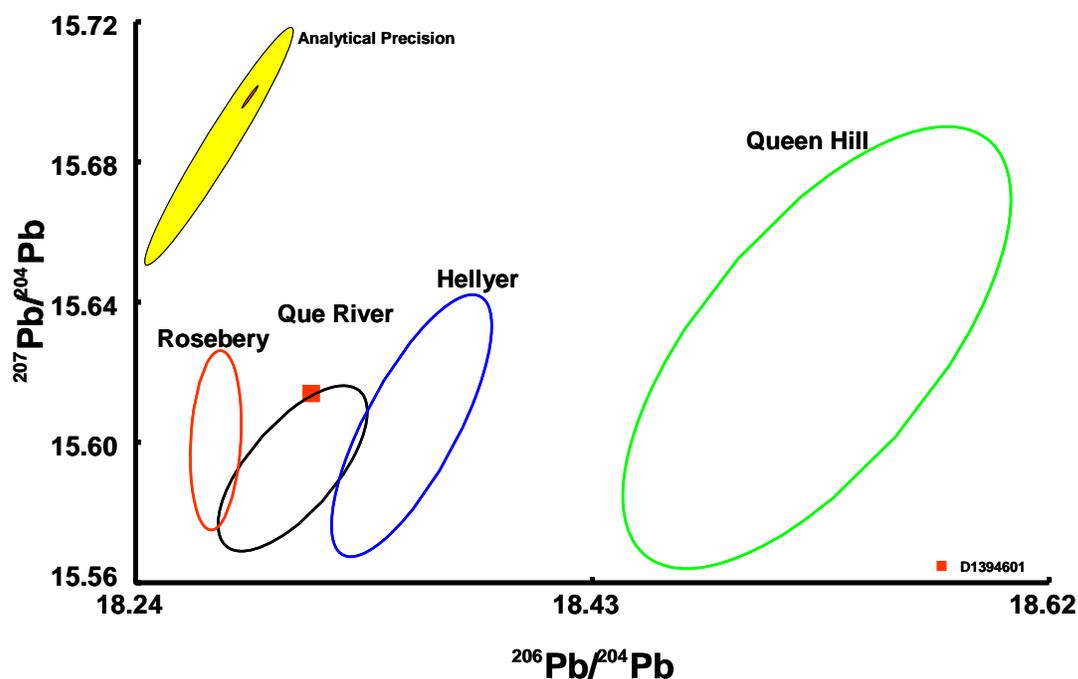
Galena from a narrow vein in drill core was samples

#### Analytical Method

Pb isotopic analysis was undertaken at the University of Melbourne Isotope and Trace Element Laboratory. The sample was leached in a low pressure HF-HNO<sub>3</sub>-HCL solution and Pb extracted using a single pass on Eichrom Sr resin. Isotope ratios were measured on a Multi Collector ICP-MS. Precision is an order of magnitude greater than shown by the yellow ellipse in the diagram below, which relates to the data shown in comparison and analysed by conventional TIMS methods.

Table 1 Pb isotope ratios

Sa No	<sup>206</sup> Pb/ <sup>204</sup> Pb	<sup>207</sup> Pb/ <sup>204</sup> Pb	<sup>208</sup> Pb/ <sup>204</sup> Pb
D1394601	18.313	15.614	38.141



***Figure 1*** *Pb isotope results for this study in comparison to Cambrian VHMS systems and the Queen Hill Devonian granite related system*

***Interpretation Notes***

The Pb isotope ratios are consistent with formation from a Cambrian hydrothermal system.

Appendix 7 (411R-D1 core photos)





Appendix 8 (411R-D1 Assay Results)

Method				WEI-21	ME-XRF15d	ME-XRF15d	ME-XRF15d	ME-XRF15d	Ag-AA52	Au-AA25	ME-XRF15d
Analyte				Recvd Wt.	Cu	Pb	Zn	Fe	Ag	Au	As
	From	To	interval	kg	%	%	%	%	ppm	ppm	%
				0.02	0.01	0.01	0.01	0.01	1	0.01	0.05
411R-D1 1392722	1420.8	1421.8	1	2.66	<0.01	<0.01	0.02	4.97	2	0.09	<0.05
411R-D1 1392723	1421.8	1422.8	1	2.83	0.02	<0.01	0.02	7.63	7	0.62	<0.05
411R-D1 1392724	1422.8	1423.8	1	3.95	0.15	2.67	6.29	4.87	349	5.76	<0.05
411R-D1 1392725	1423.8	1424.8	1	3.47	0.1	1.62	3.22	4.14	301	2.7	<0.05
411R-D1 1392726	1424.8	1425.8	1	3.32	0.04	0.76	1.74	6.11	102	1.09	<0.05
411R-D1 1392727	1425.8	1426.9	1.1	3.93	0.21	4.83	8.39	2.54	570	5.08	<0.05
411R-D1 1392729	1426.9	1427.4	0.5	1.52	0.03	0.09	0.19	3.47	10	0.07	<0.05
411R-D1 1392730	1427.4	1428.4	1	4.11	0.25	5.68	9.16	1.2	764	9.23	<0.05
411R-D1 1392731	1428.4	1429.1	0.7	3.1	0.41	8	13.15	1.88	1110	13.25	<0.05
411R-D1 1392732	1429.1	1429.4	0.3	1.34	0.57	6.22	9.88	2.06	825	9.98	0.05
411R-D1 1392733	1429.4	1430.4	1	4.16	0.84	11.9	23.7	4.2	458	3.43	0.12
411R-D1 1392735	1430.4	1430.8	0.4	1.38	0.42	4.59	8.19	1.79	617	5.28	<0.05
411R-D1 1392736	1430.8	1431.4	0.6	1.83	0.16	1.25	3.12	2.91	181	5.61	<0.05
411R-D1 1392737	1431.4	1432	0.6	2.15	0.15	5.41	8.76	3.18	974	5.06	<0.05
411R-D1 1392738	1432	1432.6	0.6	2.01	0.18	3.51	6.4	4.2	853	9.29	<0.05
411R-D1 1392739	1432.6	1433.6	1	2.67	<0.01	<0.01	0.11	2.99	12	0.07	<0.05
411R-D1 1392740	1433.6	1434.6	1	2.65	0.08	<0.01	0.02	1.62	3	0.02	<0.05
411R-D1 1392741	1434.6	1435.6	1	2.81	<0.01	<0.01	0.02	0.91	3	0.01	<0.05
411R-D1 1392742	1435.6	1436.6	1	2.7	0.01	<0.01	0.1	0.95	4	0.02	<0.05

*Appendix 9 (HiSeis VSP report)*