



Hole Id MS10	Project QUEENSTOWN	EOH 656.40
Type DD	Prospect BEATRICE	Commenced 5/08/99
Year 1999	Tenement No. EL 6/98	Completed 17/09/99

Wedge / Extension	Parent Hole ID	Wedge Depth
UTM East 385348.60	Local East	Dip -82.00
UTM North 5347908.40	Local North	True Az (UTM)
UTM RL 738.60	Local RL	Mag Az 302.00
UTM Grid AMG66_55	Local Grid	Local Az 290.00
UTM Datum AGD66		

<table border="1"> <thead> <tr> <th>From</th> <th>To</th> <th>DH Type</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>4.50</td> <td>DD</td> </tr> <tr> <td>4.50</td> <td>56.10</td> <td>DD</td> </tr> <tr> <td>56.10</td> <td>656.40</td> <td>DD</td> </tr> </tbody> </table>	From	To	DH Type	0.00	4.50	DD	4.50	56.10	DD	56.10	656.40	DD	<table border="1"> <tr> <td>Logged by KPD</td> </tr> <tr> <td>Sampled by AA/CA</td> </tr> <tr> <td>Exploration Co. Pasminco</td> </tr> <tr> <td>Drilling Contractor Diamond Drilling T</td> </tr> <tr> <td>Drill Rig CS1000 P4</td> </tr> </table>	Logged by KPD	Sampled by AA/CA	Exploration Co. Pasminco	Drilling Contractor Diamond Drilling T	Drill Rig CS1000 P4	<table border="1"> <tr> <td>Casing Type 40mm cl</td> </tr> <tr> <td>Depth From 0.00</td> </tr> <tr> <td>Depth To 656.40</td> </tr> <tr> <td>Casing Diam. 40mm</td> </tr> </table>	Casing Type 40mm cl	Depth From 0.00	Depth To 656.40	Casing Diam. 40mm	<table border="1"> <tr> <td>Downhole Geophysics</td> </tr> </table>	Downhole Geophysics
From	To	DH Type																							
0.00	4.50	DD																							
4.50	56.10	DD																							
56.10	656.40	DD																							
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Depth From 0.00																									
Depth To 656.40																									
Casing Diam. 40mm																									
Downhole Geophysics																									

Reason for hole / Target Test centre of PL anomaly west of Itat Ck Fault.

Visible Mineralisation

Best Intersection(s)

Summary Geology

From	To	Lithology	Description
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Comments 3m 150mm PVC left as collar



Hole Id MS11	Project QUEENSTOWN	EOH 602.30
Type DD	Prospect BEATRICE	Commenced 30/09/99
Year 1999	Tenement No. EL 6/98	Completed 17/11/99

Wedge / Extension	Parent Hole ID	Wedge Depth
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UTM East 385486.60	Local East	Dip -72.00
UTM North 5347742.10	Local North	True Az (UTM)
UTM RL 754.20	Local RL	Mag Az 296.00
UTM Grid AMG66_55	Local Grid	Local Az 284.00
UTM Datum		

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From	To	DH Type																							
0.00	7.00	DD																							
7.00	98.00	DD																							
98.00	602.30	DD																							
Logged by KPD																									
Sampled by AA/CA																									
Exploration Co. Pasminco																									
Drilling Contractor Diamond Drilling T																									
Drill Rig CS1000 P4																									
Casing Type 40mm cl																									
Depth From 0.00																									
Depth To 602.30																									
Casing Diam. 40mm																									
Downhole Geophysics																									

Reason for hole / Target Test centre of PL anomaly in hangingwall and footwall of Itat Creek Fault

Visible Mineralisation

Best Intersection(s)

Summary Geology

From	To	Lithology	Description
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Comments 3m 150mm PVC left as collar



Hole Id MS12	Project QUEENSTOWN	EOH 282.00
Type DD	Prospect BEATRICE	Commenced 7/12/99
Year 1999	Tenement No. EL 6/98	Completed 9/02/00

Wedge / Extension		Parent Hole ID	Wedge Depth
UTM East	384325.60	Local East	Dip -48.00
UTM North	5347609.10	Local North	True Az (UTM)
UTM RL	690.00	Local RL	Mag Az 300.00
UTM Grid	AMG66_55	Local Grid	Local Az 288.00
UTM Datum			

From To DH Type 0.00 6.00 DD 6.00 282.00 DD	Logged by AMcN Sampled by AA/CA Exploration Co. Pasminco Drilling Contractor LIDDS Drill Rig Hydracore 28	Casing Type 40mm cl Depth From 10.00 Depth To 282.00 Casing Diam. 40mm	Downhole Geophysics
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Reason for hole / Target Test West Beatrice PL and resistivity anomaly

Visible Mineralisation

Best Intersection(s)

Summary Geology

From To Lithology Description

Comments



Hole Id MS13	Project QUEENSTOWN	EOH 468.20
Type DD	Prospect BEATRICE	Commenced 14/02/00
Year 2000	Tenement No. EL 6/98	Completed 21/03/00

Wedge / Extension	Parent Hole ID	Wedge Depth
UTM East 385480.00	Local East	Dip -68.00
UTM North 5347732.70	Local North	True Az (UTM)
UTM RL 759.30	Local RL	Mag Az 272.00
UTM Grid	Local Grid	Local Az 260.00
UTM Datum		

From 0.00	To 2.00	DH Type DD	Logged by AMcN Sampled by AA/CA Exploration Co. Pasminco Drilling Contractor DDT Drill Rig CS1000 P4	Casing Type 40mm cl Depth From 0.00 Depth To 468.20 Casing Diam. 40mm	Downhole Geophysics
2.00	68.50	DD			
68.50	468.20	DD			

Reason for hole / Target Test DHEM anomaly from MS11

Visible Mineralisation

Best Intersection(s)

Summary Geology

From	To	Lithology	Description
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Comments

<i>Hole Id</i>	<i>Depth</i>	<i>Dip</i>	<i>Azimuth (True)</i>	<i>Azimuth (Mag)</i>
MS1	0	-60	300	
MS1	60	-58	304	
MS1	120	-58	309	
MS1	180	-55	312	
MS1	240	-50	317	
MS1	300	-49	320	
MS1	329.1	-60	300	
<hr/>				
MS10	0	-82	302	290
MS10	30	-81	296.8	284.8
MS10	60	-81	296.7	284.7
MS10	90	-81	297.6	285.6
MS10	120	-81	302.5	290.5
MS10	150	-81	309	297
MS10	180	-81	318.9	306.9
MS10	210	-80	327.5	315.5
MS10	240	-80	335.2	323.2
MS10	270	-79	344	332
MS10	300	-79	346	334
MS10	330	-79	349.4	337.4
MS10	360	-77	358.1	346.1
MS10	390	-76	5	353
MS10	420	-75	5.6	353.6
MS10	450	-75	6.5	354.5
MS10	480	-74	8.6	356.6
MS10	510	-73	11.4	359.4
MS10	540	-73	13	1
MS10	570	-72	15.3	3.3
MS10	600	-70	18.3	6.3
MS10	630	-68	19.7	7.7
MS10	648	-68	21.1	9.1

<i>Hole Id</i>	<i>Depth</i>	<i>Dip</i>	<i>Azimuth (True)</i>	<i>Azimuth (Mag)</i>
MS11	0	-72	296	284
MS11	15	-72	296	284
MS11	60	-72	301	289
MS11	112	-70	303	291
MS11	167	-70	309	297
MS11	230	-69	316	304
MS11	260	-68	317	305
MS11	293	-68	317	305
MS11	323	-68	317	305
MS11	353	-68	318	306
MS11	383	-68	321	309
MS11	413	-67	321	309
MS11	443	-67	323	311
MS11	473	-66	326	314
MS11	523	-65	329	317
MS11	575	-64	333	321
MS11	602	-63	334	322
<hr/>				
MS12	0	-48	300	288
MS12	30	-48	297	285
MS12	83.2	-48	296	284
MS12	120	-47	296	284
MS12	170	-47	293	281
MS12	282	-45	292.5	280.5
<hr/>				
MS13	0	-68	272	260
MS13	15	-68	274	262
MS13	60	-68	276	264
MS13	110	-67	278	266
MS13	140	-67	280	268
MS13	170	-66	283	271
MS13	200	-66	283	271
MS13	230	-65	283	271
MS13	260	-64	282	270
MS13	290	-64	282	270
MS13	320	-63	282.5	270.5
MS13	350	-63	283	271
MS13	380	-62	282	270
MS13	410	-62	285	273
MS13	468	-60	288	276

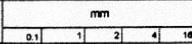
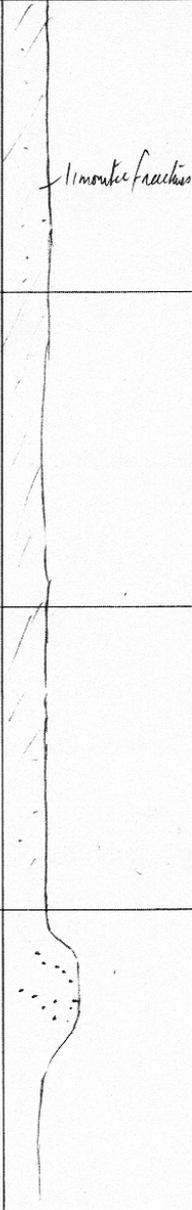
<i>Hole Id</i>	<i>Depth</i>	<i>Dip</i>	<i>Azimuth (True)</i>	<i>Azimuth (Mag)</i>
MS2	0	-61	55	
MS2	60	-55	55	
MS2	120	-40	57	
MS2	180	-35	59	
MS2	240	-30	60	
MS2	300	-27	64	
MS2	301	-61	55	
MS3	0	-56	50	
MS3	60	-53	52	
MS3	120	-47	52	
MS3	180	-42	53	
MS3	240	-40	54	
MS3	300	-38	56	
MS3	328	-56	50	
MS4	0	-59	305	
MS4	60	-59	313	
MS4	120	-56	317	
MS4	180	-55	320	
MS4	240	-54	324	
MS4	300	-54	330	
MS4	350	-59	305	
MS5	0	-60	296	
MS5	139	-60	296	
MS6	0	-50	144	
MS6	30	-50	143	
MS6	60	-50	143	
MS6	90	-49	143	
MS6	120	-48	145	
MS6	150	-47	146	
MS6	180	-46	146	
MS6	210	-46	147	
MS6	240	-45	148	
MS6	270	-45	146	
MS6	288.8	-50	143	

<i>Hole Id</i>	<i>Depth</i>	<i>Dip</i>	<i>Azimuth (True)</i>	<i>Azimuth (Mag)</i>
MS7	0	-60	60	48
MS7	62	-61	63	51
MS7	122.2	-61	65	53
MS7	176	-57	66.5	54.5
MS7	239	-56	65	53
MS7	308	-56	66	54
MS7	371	-55	67	55
MS7	427	-54	66	54
MS7	506	-53	68	56
MS7	550	-52	69	57
MS8	0	-60	112	100
MS8	29	-61	113	101
MS8	100	-61	116	104
MS8	150	-61	117.5	105.5
MS8	250	-61	117.5	105.5
MS8	300	-61	119	107
MS8	350	-61	119	107
MS8	400	-60	122	110
MS8	450	-60	122	110
MS8	500	-60	122	110
MS8	550	-60	121	109
MS8	607	-60	121	109
MS8	650	-59	122	110
MS8	700	-59	121	109
MS8	750	-59	123	111
MS8	798	-58	122	110
MS9	0	-65	290	278
MS9	31	-65	290	278
MS9	62	-64	290	278
MS9	100	-64	286	274
MS9	152	-64	286	274
MS9	199.8	-64	284	272
MS9	251	-64	287	275
MS9	305	-64	290	278
MS9	353	-64	290	278

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	M511	Project	1151 Canaan
Hole Type	DIAMOND	Tenement No	EL6/98
Year	1999	Prospect	Beatrice
Geologist	KPD	Date	29/10/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
0									
5							<p>0.0 - 33.0m - Pink grey felspathic siltstone → mudstone (ashy volcanic). The unit is moderately sericite altered. Rn (green spots to 2-3mm are interpreted as chlorite predominate locally.</p>	<p>mod. Se</p>	
10									
15									
20								<p>chl spots</p>	

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queensland
Hole Type	DIAMOND	Tenement No	EL6498
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	29/10/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
20						mm 0.1 1 2 4 16			
25							23.0 - 24.8m the core is badly broken and minor pyrite development at 23.7 and 24.8m.	↑ mod Ser mod chl spotty	
30								↓ /50 (10)	
35	072 918						33.0 - 51.4m. mottled green (spotted) and pink green fine grained volcanic. Chlorite spots to 2-3mm are common throughout the unit and the intensity + percentage increases towards the base of unit.	↑ mod- Strong chlorite alt?	
40	919 920 921 922						From 38 - 41.8m Feathery, rounded of pale yellow sphalerite are common. From 39 - 44m clots of dark red sphalerite/galena and pyrite to 8mm are common.	yellow sp	

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	Quartz
Hole Type	DIAMOND	Tenement No	648
Year	1999	Prospect	KEARLE
Geologist	KPD	Date	29/10/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
40		072				mm 0.1 1 2 4 16			
		923							
		924							
		925							
		926						mod- strong chlorite	
45		927						alt?	
		928							
50		929							
		930					51.4-60.8m.		
		931					Mottled Dark green-pale yellow chlorite altered ash volcanic. The unit is dominantly chlorite altered but locally it is sericite altered with detrital spots to 2-3mm. The unit is cut by irregular tension gashes filled with carbonate from 51.4-57.4m but became base metal rich from 57.4 to 60.8m. The majority of base metal is galena with Chalcopyrite and minor sphalerite. From 59.1-59.4m a breccia vein is intersected, 91% banded carbonate/sphalerite/galena		
55		932						chl ₄	
		933						Sericite in bands.	
		906	88	3500	3250		Ag Au 32 0.19		
		907	2290	12900	7450		13 2.6		
60		908	2430	22500	25500		27 1.7		

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Quacosta
Hole Type	DIAMOND	Tenement No	EL6698
Year	1999	Prospect	BEATRICE
Geologist	KM	Date	3/11/99

Depth	Lithology	Cu	Pb	Zn	Graphic Log					Comments	Alteration	Mineralisation
					mm	Ag	Am	1	2			
60	6.0											
	909 61.0	3540	3700	1560		28	3.2			60.8-62.6m.		
	910 61.8	1350	3050	3150		19.7	2.5			Orange quartz sericite altered ash volcanic,	Se ₂	
	911 62.6m	1270	2150	3700		34	2.3			cut by a network of gal/sph (8%) minor chalcocite veins.	chl ₂	
	912 63.5m	1545	1370	1300		46	0.9			62.6-63.5m As at 57.4-60.8m		
	934 64.5									63.5-71.8m Pale green chlorite		
65	935									altered ash volcanic		
	936									from 70.0-71m a series of quartz-carbonate ± chalcocite ± galena ± sphalerite veins and veinlets for 10mm-150mm.	chl ₂	
	937											
70	938											
	939 71.8m									71.8-97.3m.		
	941									Mottled yellow-green moderately sericite altered felspathic sandstone. Mottled appearance is due to less altered wisps of sandstone to 3+mm.	Se ₃	95, ch, scop, gal!
75	942										chl, bl, h ₂	
	943											
	944										So (74)	
80												

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Overton
Hole Type	DIAMOND	Tenement No	ELGAP
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	3/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation	
	Code	Colour								
80										
	945						80.2 - 81.1 - carbonate - quartz galena pyrite veins (5%)			
	946	81.1								
	947									
85										
	948									
	949									
90							92.1m - 97.3m - siliceous quartz to 5mm with varying proportions of galena and sphalerite.			
	950									5mm
	951									20/26/97 2mm
	952						97.3 - 103.8m Green with dark green bluish grey ash volcanic.	chl ₃		
95									Spotty	
	953	97.3								5mm sph ₆
	954									
100										
	955							So/30		

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	Queens to
Hole Type	DIAMOND	Tenement No	6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	3/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
100						mm 0.1 1 2 4 16			
	956							ch ₃ sulf ₂	
			103.8				103.8-128m.		
105	957						Pale pink ashy volcanic, locally granit, well bedded with So // to VCA.	Se ₂	
	958								
	959								
110			110.3m				110.3-110.4m pug fault, From 110.3-128m the cement is cut by 3-5mm ch ₃ /qt ₂ veins.		So/005
	961								
	962								
115	963								
	964								
	965								So/015
120									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Quensta
Hole Type	DIAMOND	Tenement No	EL648
Year	1999	Prospect	SEAFRICE
Geologist	KPD	Date	3/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
120						mm 0.1 1 2 4 10			
		966							
		967							
125		968					From 124-128 pale brown hornfels? 5cm to 15mm.	So ₂	
		969							
		970					180-142m pinkish green to pink variably white and K-feldspar altered with pumice grit/sandstone		disseminated black sulfide 3mm or less blk sphalerite
130		971							
		972						Ch ₃	
		973						K ₁	
135		974							
		975						K ₁	25% qtz/cb/ K-feldspar veining
		976						Ch ₂	
140									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	2/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation	
	Code	Colour								
140						mm 0.1 1 2 4 10				
		977								
		978								
145										
		979					147.2 - 149.9m. Well bedded pale brown archy volcanic	chl ₄	S ₁ /023	
		981						Se ₂		
150		913 150.1	61	1455	360		149.9 - 151.6m semi-massive			
		914 150.4	1675	+10%	4.85%		altered feldspathic sandstone. Sulfide in clonementally galena and forms an anastomosing network. from 150.1 - 150.9m galena/sulfides (30%), 150.9 - 151.6m galena (10%) sphalerite (3%), pyrite (5%)	chl ₄		
		915 151.7	940	7.65%	5.45%					
		916 153	62	1460	1130				K ₄	
		982					151.6 - 185.3m pink and green variably altered lithic pumice mass flows			
155		983	1547					1547		
		984								
		985						chl ₂		
160		986								

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Quadrant
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	3/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
160									
165								chl ₃ chl ₅ pyroxene	
170									
175								chl ₃ K ₂	
180									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	Quensto
Hole Type	DIAMOND	Tenement No	EL648
Year	1999	Prospect	BEATRICE
Geologist	KCP	Date	3/11/99

10/51

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
180									
			182.0m						
			183.6m						
185									
			185.2m						
190							<p>185.3m - 197.0m. faulted fine ash volcanic, badly broken core and localized pyz zones at 191-191.2m, 192-193.1m, 9s thin the Ipat Creek Fault? Fractures/crush zones at 190m and 196m are at a low angle (<20°) to the core</p>		
195									
200							<p>197.0 - 204.6m lithic sandstone → cobbles → conglomerate. Lithic clasts are predominantly pink rhyolite clasts, green wispy sericite, altered permian limestone.</p>		

Ass py.

Fault 008

Fault 008

K3

abundant limestone

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole_ID	M511	Project	Quanghan
Hole_Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	3/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
200							<p>clastic predominates in the coarser section</p>		
205								<p>at₃/cb/cd/</p>	<p>K₃ vein</p>
210									
215									<p>Se₄ of pumice.</p>
220									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

12/31

Hole ID	MS11	Project	Queensland
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	RPJ	Date	3/1/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
220									
225									
230							We orientated -68.5° → 316 AMG. So 57 → 265		
235									
240									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	12/51 Ducanthe
Hole Type	DIAMOND	Tenement No	6/98
Year	1999	Prospect	BEARICUS
Geologist	KPD	Date	

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
240							243m		
245									
250									
255							← 20cm limestone breccia		
260									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

14/31

Hole ID	MS 11	Project	Quartzite
Hole Type	DIAMOND	Tenement No	EL668
Year	1999	Prospect	BETHRICE
Geologist	KPD	Date	

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
260							<p>K feldspar altered massive to 274.6m</p>		
265								<p>Ch₂</p> <p>K</p>	
270									
275							<p>274.6--292.2m Pink and green K-feldspar and chlorite altered like sandstone/volcanic.</p>	<p>K₃</p> <p>Al₃</p>	
280									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	15/31 Queensboro
Hole Type	DIAMOND	Tenement No	6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	2/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
280									
285									
290									
295							<p>292.2 - 314.3m Mottled pink and green strongly K-feldspar altered clasts and selective beds, chlorite altered lithic sandstone - siltstones.</p>	K ₃ Chl ₃	
300						<p>The unit is cut by a series of 5-20mm wide quartz-chlorite-carbonate veins.</p> <p>There are clear distinct pink rhyolitic clasts but there is also more indistinct "clasts" which are probably alteration domains rather than clasts.</p>	<p>finely bedded.</p>	<p>Chl₄</p> <p>So₀₂₇</p> <p>qtz-cb-c</p>	

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole_ID	MS 11	Project	Quenda
Hole_Type	DIAMOND	Tenement No	EL6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
300									
305							<p>305 - 314.3 - abundant quartz, chlorite, feldspar veins typically 4-5mm wide.</p>	K ₁	<p>OP5 phy-cll-feld</p>
310									
315							<p>314.3 - 343.0m - Variably chloritic and K-feldspar altered ashy volcanic → lithic grit.</p>	<p>chl₄</p> <p>K₃</p> <p>chl₃</p>	
320									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queensland
Hole Type	DIAMOND	Tenement No	EL6498
Year	1999	Prospect	BEARICE
Geologist	KPD	Date	4/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
320						mm 0.1 1 2 4 10			
								K ₃	
335								cl ₃	
330							From 331.0-335.8m are veins of 5-100mm quartz-carbonate-chlorite vein are intersected.	Ch ₁ K ₁₋₂	ab-cb cl
335									
340									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

18/31

Hole ID	M5 11	Project	Diamond Star
Hole Type	DIAMOND	Tenement No	EL6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	4/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
340							gradational contact.		
345							<p>343.0 - 355.3m.</p> <p>lithic pumice sandstone/grit.</p> <p>Lithic clasts are light grey - pink rhyolite clasts, pumice is flattened and dark green sericite altered</p>	<p>Se-pumice A</p> <p>Se₁</p>	
350							<p>355.3 - 381.5m</p> <p>Coarse grained limestone, rhyolite lithic pumice conglomerate. Numerous limestone clasts to 30mm and pumice typically 3-10mm but up to 30mm.</p>		
360									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queensland
Hole Type	DIAMOND	Tenement No	EL6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	4/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
360									
365									
370							<p>So₄ 45 → 223°</p>		
375									
380									

369.3m So:

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	Queenston
Hole Type	DIAMOND	Tenement No	EL 6/99
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	4/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
380									
385							<p>3815 - 398.8m. pink - green fine - coarse grained lithic pumice sandst → siltstone etc. Dominant K-feldspar alteration is invaded with green chlorite alteration (eg. 384.2) and has a pseudo breccia appearance.</p>	<p>SO₄</p>	
390								<p>K₂</p> <p>Cl₂</p>	
395							<p>From 397 - 405.6m 5-10cm calcite veinlets are intersected with 3-4 vein/metre.</p>		
400									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	Quaranta ^{21/31}
Hole Type	DIAMOND	Tenement No	EL6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	4/11/99.

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
400							398.8 - 440.3m. (Sens. of exp. and downhole grad. siltstone & pumice silt (to 70% in coarse section) sandstones/quartz → siltstones.		
405									
410								S ₀₂ pumice	
415									
420									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queenston
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	4/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
420									
425							<p>joined orientations at 428.3-434.3m with approx 10° error ✓</p> <ul style="list-style-type: none"> 427.2m: 74 → 201° = contact, 428.8m: S₀ 44 → 304° 429.9m: 38 → 350° = contact, 432.1m: S₀ 31 → 284° 432.1m: S₀ 34 → 294° 		
430									
435									
440									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queensdown
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	5/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
440									
							440.3-486.6m. Grey green homogeneous feldspar phytic volcanic, the entire unit is mottled with 20% 2-3mm clots of white mica. Locally bedded.	white mica	
445							444.5m S ₀ : 61° → 210°	Seg	clots
450									
455									
460									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queensdown
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	5/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
460									
465									
470									
475									
480									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queenston
Hole Type	DIAMOND	Tenement No	EL 6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	5/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
480									
485							<p>486.6m - 495.9m.</p> <p>Pale green-grey-brown fine grained, massive ashly volcanic.</p>		
490							<p>From 490-494 a series of quartz-feldspar-chlorite veins to 15 cm are intersected.</p>		
495							<p>495.9-551m.</p> <p>series of uphole? being graded sandstone-schistose.</p> <p>Coarse bases are feldspar (> 2mm) rich with rare lithics to 15mm.</p>		
500									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Ansartha
Hole Type	DIAMOND	Tenement No	EL668
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	5/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
500									
505									
510									
515							From 513-513.6m green-chlorite veins with minor galena are intersected		np-chl-gc
520							From 517.6-521.8m massive magnetite veins to 25mm are intersected.	mt ₄	0.20 25mm magnetite vein

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Quibara
Hole Type	DIAMOND	Tenement No	EL 648
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	5/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
520						mm 0.1 1 2 4 16			
								mta.	
525									
530									
535									
540									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Queenston ^{48/51}
Hole Type	DIAMOND	Tenement No	6/98
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	5/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralization
	Code	Colour							
540							From 539.6 - 546.2m: a series of 50-150mm quartz-feldspar chlorite veins are intersected.		
545									
550									
555							551.0 - 573 m: Uniform, monotonous patchily K-feldspar altered white sandstones and siltstones	K ₃ patchy.	
560									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS 11	Project	Bucaranga
Hole Type	DIAMOND	Tenement No	EL 6/58
Year	1999	Prospect	BEATRICE
Geologist	KPD	Date	16/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
560									
565								K ₂	
570								Palky	
575							<p><u>573-598-2m</u></p> <p>Pale green volcanic with patchy K-feldspar alteration. Small chlorite patches to 3-4mm (are possibly rimmed) have 1-2mm rim of K-feldspar.</p> <p> K-Spr.</p> <p>2-4mm carbonate veins ± quartz</p>	10cm 9/10 - ch1 4/9	
580									

DIAMOND DRILL HOLE LOG

PASMINCO EXPLORATION

Hole ID	MS11	Project	Queensferry
Hole Type		Tenement No	6/98
Year		Prospect	BEATRICE
Geologist		Date	16/11/99

Depth	Lithology		Cu	Pb	Zn	Graphic Log	Comments	Alteration	Mineralisation
	Code	Colour							
580							are very common in the interval 586.5-594.0m and are typically at an angle of 30° to VCA		
585									 al ₃ -cl ₁ -Kfs veinlet
590									
595									
600							598.4-602.3m (604) Sericite altered volcanic, coarse shaly lithic breccia from 600.4-601.3m with subrounded to rounded clasts to 4.5mm		Se ₂

PASMINCO E LORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	115-1L	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist		Date	

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veinling	Faults	Graphic Log
	Code		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
10.0	PL-SN	Polymict xtal-rich volcanoclastic sandstone qtz + pl xtal, (qtz porphy clasts (come at base) minor silty clay intervals. + mic ferrous chh-poor?	25%		S ₀ = 60-65% Z ₀ = 2	25%		
35.0						QzL (1)		
40.0	IRPO PL-SN	Quartzite - feldspar - feldspar planoir biotite chloritization. Some narrow zone look brecciated will a sandy xtal-rich matrix, eg 47.3-48.1m boundaries these units are diffuse	S ₁ H ₁ (2) (Perthite) QzL (1) (Micro)			34%		
45.0						QzL + QzL (2)		
50.0						QzL (1)		

PASMINCO LORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	M5-1L	Project
Hole Type		Tenement No.
Year		Prospect
Geologist	A.V.N	Date
		10/1/00

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensity (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
	Code	Colour							
55.0							Qtz (1) Pls		
60.0							Qtz (1) Pls		
65.0	TRPO	Pl-Sn	Quartz-feldspar - perthites.	Sil (2) - Perovskite Chl (2) - Pyrites			Qtz (1)		
70.0							Qtz (1)		
75.0							Qtz (1)		

Make the hole
defined by
call out
- f
domains.

PASMINCO LORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	Pg-1L	Project
Hole Type		Tenement No.
Year	2003	Project Data
Geologist	2011	

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour	Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
76.0			quartz, feldspar, perthite	S1K1 (1) CHL (2)				
80.0	IR70 / IR-5r		quartz, feldspar, perthite with altered base of porphyry breccia with volcanoclastic sandstone matrix	S1K1 (1) CHL (2)				
	CPSA		Alum alteration observed in QZ					
85.0	IR70 (1) IR-5m		quartz, feldspar, perthite	P34 S1K1 (1) CHL (2)				
90.0	CP8K		Polymict volcaniclastic breccia with lithic-rich base Clasts: Sericitic black shale, Qtz-porphyr. calc. sp. feldspar, siliceous non-phylic volcanic. clasts to 100mm. Generally sub-rounded to angular. Matrix is lithic-rich, calc feldspar. Unit name un-granitic.	S1K1 (1) CHL (2)		QZ (1)		
95.0	CR8K		Basaltic volcaniclastic breccia. Graded top to vbl. sh. (see desc. sheet) to quartz-feldspar-perthite. Matrix is volcanoclastic. (Cstn 4?)	S1K1 (1)				
97.0	CP8K		Polymict volcaniclastic breccia. un-granitic lit upper part shale matrix - lower part Sand matrix. clasts are per with above; clasts to 60cm dia. clast S1A to streambed 97.6 - one calcareous siltstone clast	S1K1 (1) CHL (2)				
100.0	VDBK		Perthite-phyre dacitic lava breccia Not a horizontal fracture lithology!!	S1K1 (1)		CL (2)		

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOGGIN

Input

Hole ID	R1-14	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	ANN	Date	3/1/00

Depth	Lithology Code Colour	Comments	Alteration Up to 3 codes w intensities (1-3)	Mineralisation Up to 3 codes with % COPPER (t) Zn Au	Structure	Veining	Faults	Graphic Log
155				100% COPPER (t) Zn Au 100%		100% quartz (s)	100% quartz (s) / Br	
160			Sill (s) Porous ch (s) s Microph.			100% Quartz (s)		
165	VSDA GR PL	Some siliceous yellow-tan dirt bar	100%			100% Quartz (s)		
170		Yellow 160m above 0.8m, rounded elliptical phob in matrix	Sill (s) Porous clay (s) s planoceph.			100% Quartz (s)		
175								

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	15-11	Project
Hole Type		Tenement No.
Year		Prospect
Geologist	APVA	Date
		3/4/00

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
	Code	Colour							
180							Qtz ch (2)		
185		sn-rl		Sichl (1) Ferrous Chn (3) & Hematite	18-0 B ₂ (H) Jr.				
190		pk	Alumina Feldspar-rich Ductile lam. Siderite Minor rounded cl - filled ? voids below 180m	Sichl (1) Chl (1) Pyroxene	18-0 B (H) Jr. B (H) Jr. SP		Qtz ch (1)		
195		sn-rl		Sichl (1) Pyroxene	18-0		Qtz (2) ± chl ± ksp.		
200		pink		Sichl (2) Chl (1) Hematite	18-0 B ₂ (H) Jr. B ₂ (H) Jr. SP B ₂ (H) Jr. C ₂ (H) Jr.		Qtz (2) ± chl ± ksp. 18-0 B ₂ (H) Jr. B ₂ (H) Jr. C ₂ (H) Jr.		

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	17-1	Project	
Hole Type		Tenement No.	
Year		Product	
Geologist	amw	Date	1/1/00

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
205	pk 101-1		Schistose chill (c) 101-6 Porphyry 101-1	50% (a) 10 101-6		pk-chill (a) 101-6		⊙ ┌ ⊙ ┌
210	pk-60		Schistose 101-6 Porphyry 101-1	50% (a) 10 101-6		pk-chill (a) 101-6		⊙ ┌ ⊙ ┌
215	VDDA 101-5	Massive Silicified Schistose Massive Chlorite Veinlets.	Schistose 101-6 Porphyry 101-1	50% (a) 10 101-6		pk-chill (a) 101-6		┌ ┌ ┌ ┌
220	pk-10 101-3		Schistose 101-6 Porphyry 101-1	50% (a) 10 101-6		pk-chill (a) 101-6		┌ ┌ ┌ ┌
225	pk-50		Schistose 101-6 Porphyry 101-1	50% (a) 10 101-6		pk-chill (a) 101-6		┌ ┌ ┌ ┌

PASMINCO LOCALIZATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	110-1L	Project	
Hole Type		Tenement No.	
Year		Project	
Geologist	A.P.P.	Date	4/1/00

Depth	Lithology Code Colour	Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
230	fl-gr		Si cl/ks (1) Perovskite			Grd cl (2)		⊙ ┌ ┌ ┌
	2114 fl		2114 Si, ks (2) 531.9 ch/ks (2)			2114 Grd (2) Grd cl/ks (4) 2114		┌ ⊙ ┌ ⊙
235	VDBA	Matrix foliated. Phys. Discrete lina. sphaerulic Rare CS filled vesicles?						┌ ┌ ┌ ⊙
240	fl-gr		Si cl/ks (1) Perovskite			Grd (1) 2114 Grd (1) 2114		┌ ⊙ ┌ ┌ ┌ ⊙
245								┌ ┌ ┌ ⊙ ┌ ⊙
250								┌ ┌ ┌ ⊙ ┌ ⊙

PASMINCO LORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	PL-3	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	ANAN	Date	15/1/06

Depth	Lithology Code Colour	Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
5		No core						
10	CFSI br	Volcanic siltsone, shows weathered material broken, no obvious beds	CU (2) dds					
15	CFSI br 11.9	Volcanic siltsone - shows weathered fragile conic clast	CU (2) dds SI (2) coarse K-A			CL (1)	10.5/11/12/13/14/15 11.9 broken	
20	CFSI br 11.9	Volcanic siltsone; No obvious beds; one thin (<10cm) v. siltsone interbed. Sppt 50 = 52 H to LCA. V. siltsone conical	CU (2) dds SI (2) medium				15.5/16/17/18/19 18.4/19.2/19.4/19.6	
25								

PASMINCO LOCATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	115-13	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	AMU	Date	16/1/09

Depth	Lithology	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
	br-sa	Chl (1) Sph, Xs (1)			Qz, Cls (1)		
30	br-sa	Chl (1) Sph, Sx, Kfs (1)	Py (1) Sph	495 S = 5' to 6.0'	Qz, Cls (1)	495 S = 5' to 6.0' + Py	
35	gn-pk				Qz, Cls (2)		
			Volcanic siltstone; usually laminated in part.		Qz, Cls (2)		
40	CFSE	Chl (1) Sph, Sx (1) Toron, Kfs (1) Sph	Py (1) Toron, Sph (1) Toron	499 S = 5' to 6.0'	Qz, Cls (2)	499 S = 5' to 6.0'	
					Qz, Cls (2)		
45	br-sa	Chl (1) Sph, Sx (1) Toron, Kfs (1) Sph	Py (1) Toron, Sph (1) Toron	495 S = 10' to 6.0'	Qz, Cls (2)	495 S = 10' to 6.0'	
					Qz, Cls (2)		
	br-sa	Chl (1) Sph, Sx (1) Toron, Kfs (1) Sph	Py (1) Toron, Sph (1) Toron	493 S = 5' to 6.0'	Qz, Cls (2)	493 S = 5' to 6.0'	
50	CFSE	Sx (1) Toron, Chl (1) Sph	Sx (1) Toron, Chl (1) Sph				
			Volcanic siltstone; usually laminated				

PASMINCC PLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	M13-1	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	ANN	Date	2/5/00

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log	
	Code		Up to 3 codes w. intensities (1-3)	Up to 3 codes with %					
	Colour								
80				<p>Qz (1) 4%</p> <p>77.1</p> <p>Pz (0.5) 4%</p> <p>77.0</p> <p>Sr (0.1) 4%</p> <p>76.8</p> <p>Sr (0.1) 4%</p> <p>76.5</p> <p>76.2</p> <p>Sr (0.1) 4%</p> <p>76.1</p> <p>Sr (0.1) 4%</p> <p>75.8</p> <p>Sr (0.1) 4%</p>	<p>Qz (1) 4%</p> <p>77.7</p> <p>Qz (1) 5%</p> <p>77.0</p> <p>(Qz) (1)</p> <p>76.8</p> <p>Qz (1) 5%</p> <p>76.5</p> <p>Qz (1) 5%</p> <p>76.2</p> <p>Qz (1) 5%</p> <p>75.8</p> <p>Qz (1) 5%</p>				
85	U-Ox	Non-syn. K-feldspar intrusive identified. Potentials shown bounded in part.	<p>Sr (1) 4%</p> <p>84.5</p> <p>Sr (1) 4%</p> <p>84.2</p> <p>Sr (1) 4%</p> <p>83.8</p> <p>Sr (1) 4%</p> <p>83.5</p> <p>Sr (1) 4%</p> <p>83.2</p> <p>Sr (1) 4%</p> <p>82.8</p> <p>Sr (1) 4%</p> <p>82.5</p> <p>Sr (1) 4%</p> <p>82.2</p> <p>Sr (1) 4%</p> <p>81.8</p> <p>Sr (1) 4%</p> <p>81.5</p> <p>Sr (1) 4%</p> <p>81.2</p> <p>Sr (1) 4%</p> <p>80.8</p> <p>Sr (1) 4%</p> <p>80.5</p> <p>Sr (1) 4%</p> <p>80.2</p> <p>Sr (1) 4%</p> <p>79.8</p> <p>Sr (1) 4%</p> <p>79.5</p> <p>Sr (1) 4%</p> <p>79.2</p> <p>Sr (1) 4%</p> <p>78.8</p> <p>Sr (1) 4%</p> <p>78.5</p> <p>Sr (1) 4%</p> <p>78.2</p> <p>Sr (1) 4%</p> <p>77.8</p> <p>Sr (1) 4%</p> <p>77.5</p> <p>Sr (1) 4%</p> <p>77.2</p> <p>Sr (1) 4%</p> <p>76.8</p> <p>Sr (1) 4%</p> <p>76.5</p> <p>Sr (1) 4%</p> <p>76.2</p> <p>Sr (1) 4%</p> <p>75.8</p> <p>Sr (1) 4%</p> <p>75.5</p> <p>Sr (1) 4%</p> <p>75.2</p> <p>Sr (1) 4%</p> <p>74.8</p> <p>Sr (1) 4%</p> <p>74.5</p> <p>Sr (1) 4%</p> <p>74.2</p> <p>Sr (1) 4%</p> <p>73.8</p> <p>Sr (1) 4%</p> <p>73.5</p> <p>Sr (1) 4%</p> <p>73.2</p> <p>Sr (1) 4%</p> <p>72.8</p> <p>Sr (1) 4%</p> <p>72.5</p> <p>Sr (1) 4%</p> <p>72.2</p> <p>Sr (1) 4%</p> <p>71.8</p> <p>Sr (1) 4%</p> <p>71.5</p> <p>Sr (1) 4%</p> <p>71.2</p> <p>Sr (1) 4%</p> <p>70.8</p> <p>Sr (1) 4%</p> <p>70.5</p> <p>Sr (1) 4%</p> <p>70.2</p> <p>Sr (1) 4%</p> <p>69.8</p> <p>Sr (1) 4%</p> <p>69.5</p> <p>Sr (1) 4%</p> <p>69.2</p> <p>Sr (1) 4%</p> <p>68.8</p> <p>Sr (1) 4%</p> <p>68.5</p> <p>Sr (1) 4%</p> <p>68.2</p> <p>Sr (1) 4%</p> <p>67.8</p> <p>Sr (1) 4%</p> <p>67.5</p> <p>Sr (1) 4%</p> <p>67.2</p> <p>Sr (1) 4%</p> <p>66.8</p> <p>Sr (1) 4%</p> <p>66.5</p> <p>Sr (1) 4%</p> <p>66.2</p> <p>Sr (1) 4%</p> <p>65.8</p> <p>Sr (1) 4%</p> <p>65.5</p> <p>Sr (1) 4%</p> <p>65.2</p> <p>Sr (1) 4%</p> <p>64.8</p> <p>Sr (1) 4%</p> <p>64.5</p> <p>Sr (1) 4%</p> <p>64.2</p> <p>Sr (1) 4%</p> <p>63.8</p> <p>Sr (1) 4%</p> <p>63.5</p> <p>Sr (1) 4%</p> <p>63.2</p> <p>Sr (1) 4%</p> <p>62.8</p> <p>Sr (1) 4%</p> <p>62.5</p> <p>Sr (1) 4%</p> <p>62.2</p> <p>Sr (1) 4%</p> <p>61.8</p> <p>Sr (1) 4%</p> <p>61.5</p> <p>Sr (1) 4%</p> <p>61.2</p> <p>Sr (1) 4%</p> <p>60.8</p> <p>Sr (1) 4%</p> <p>60.5</p> <p>Sr (1) 4%</p> <p>60.2</p> <p>Sr (1) 4%</p> <p>59.8</p> <p>Sr (1) 4%</p> <p>59.5</p> <p>Sr (1) 4%</p> <p>59.2</p> <p>Sr (1) 4%</p> <p>58.8</p> <p>Sr (1) 4%</p> <p>58.5</p> <p>Sr (1) 4%</p> <p>58.2</p> <p>Sr (1) 4%</p> <p>57.8</p> <p>Sr (1) 4%</p> <p>57.5</p> <p>Sr (1) 4%</p> <p>57.2</p> <p>Sr (1) 4%</p> <p>56.8</p> <p>Sr (1) 4%</p> <p>56.5</p> <p>Sr (1) 4%</p> <p>56.2</p> <p>Sr (1) 4%</p> <p>55.8</p> <p>Sr (1) 4%</p> <p>55.5</p> <p>Sr (1) 4%</p> <p>55.2</p> <p>Sr (1) 4%</p> <p>54.8</p> <p>Sr (1) 4%</p> <p>54.5</p> <p>Sr (1) 4%</p> <p>54.2</p> <p>Sr (1) 4%</p> <p>53.8</p> <p>Sr (1) 4%</p> <p>53.5</p> <p>Sr (1) 4%</p> <p>53.2</p> <p>Sr (1) 4%</p> <p>52.8</p> <p>Sr (1) 4%</p> <p>52.5</p> <p>Sr (1) 4%</p> <p>52.2</p> <p>Sr (1) 4%</p> <p>51.8</p> <p>Sr (1) 4%</p> <p>51.5</p> <p>Sr (1) 4%</p> <p>51.2</p> <p>Sr (1) 4%</p> <p>50.8</p> <p>Sr (1) 4%</p> <p>50.5</p> <p>Sr (1) 4%</p> <p>50.2</p> <p>Sr (1) 4%</p> <p>49.8</p> <p>Sr (1) 4%</p> <p>49.5</p> <p>Sr (1) 4%</p> <p>49.2</p> <p>Sr (1) 4%</p> <p>48.8</p> <p>Sr (1) 4%</p> <p>48.5</p> <p>Sr (1) 4%</p> <p>48.2</p> <p>Sr (1) 4%</p> <p>47.8</p> <p>Sr (1) 4%</p> <p>47.5</p> <p>Sr (1) 4%</p> <p>47.2</p> <p>Sr (1) 4%</p> <p>46.8</p> <p>Sr (1) 4%</p> <p>46.5</p> <p>Sr (1) 4%</p> <p>46.2</p> <p>Sr (1) 4%</p> <p>45.8</p> <p>Sr (1) 4%</p> <p>45.5</p> <p>Sr (1) 4%</p> <p>45.2</p> <p>Sr (1) 4%</p> <p>44.8</p> <p>Sr (1) 4%</p> <p>44.5</p> <p>Sr (1) 4%</p> <p>44.2</p> <p>Sr (1) 4%</p> <p>43.8</p> <p>Sr (1) 4%</p> <p>43.5</p> <p>Sr (1) 4%</p> <p>43.2</p> <p>Sr (1) 4%</p> <p>42.8</p> <p>Sr (1) 4%</p> <p>42.5</p> <p>Sr (1) 4%</p> <p>42.2</p> <p>Sr (1) 4%</p> <p>41.8</p> <p>Sr (1) 4%</p> <p>41.5</p> <p>Sr (1) 4%</p> <p>41.2</p> <p>Sr (1) 4%</p> <p>40.8</p> <p>Sr (1) 4%</p> <p>40.5</p> <p>Sr (1) 4%</p> <p>40.2</p> <p>Sr (1) 4%</p> <p>39.8</p> <p>Sr (1) 4%</p> <p>39.5</p> <p>Sr (1) 4%</p> <p>39.2</p> <p>Sr (1) 4%</p> <p>38.8</p> <p>Sr (1) 4%</p> <p>38.5</p> <p>Sr (1) 4%</p> <p>38.2</p> <p>Sr (1) 4%</p> <p>37.8</p> <p>Sr (1) 4%</p> <p>37.5</p> <p>Sr (1) 4%</p> <p>37.2</p> <p>Sr (1) 4%</p> <p>36.8</p> <p>Sr (1) 4%</p> <p>36.5</p> <p>Sr (1) 4%</p> <p>36.2</p> <p>Sr (1) 4%</p> <p>35.8</p> <p>Sr (1) 4%</p> <p>35.5</p> <p>Sr (1) 4%</p> <p>35.2</p> <p>Sr (1) 4%</p> <p>34.8</p> <p>Sr (1) 4%</p> <p>34.5</p> <p>Sr (1) 4%</p> <p>34.2</p> <p>Sr (1) 4%</p> <p>33.8</p> <p>Sr (1) 4%</p> <p>33.5</p> <p>Sr (1) 4%</p> <p>33.2</p> <p>Sr (1) 4%</p> <p>32.8</p> <p>Sr (1) 4%</p> <p>32.5</p> <p>Sr (1) 4%</p> <p>32.2</p> <p>Sr (1) 4%</p> <p>31.8</p> <p>Sr (1) 4%</p> <p>31.5</p> <p>Sr (1) 4%</p> <p>31.2</p> <p>Sr (1) 4%</p> <p>30.8</p> <p>Sr (1) 4%</p> <p>30.5</p> <p>Sr (1) 4%</p> <p>30.2</p> <p>Sr (1) 4%</p> <p>29.8</p> <p>Sr (1) 4%</p> <p>29.5</p> <p>Sr (1) 4%</p> <p>29.2</p> <p>Sr (1) 4%</p> <p>28.8</p> <p>Sr (1) 4%</p> <p>28.5</p> <p>Sr (1) 4%</p> <p>28.2</p> <p>Sr (1) 4%</p> <p>27.8</p> <p>Sr (1) 4%</p> <p>27.5</p> <p>Sr (1) 4%</p> <p>27.2</p> <p>Sr (1) 4%</p> <p>26.8</p> <p>Sr (1) 4%</p> <p>26.5</p> <p>Sr (1) 4%</p> <p>26.2</p> <p>Sr (1) 4%</p> <p>25.8</p> <p>Sr (1) 4%</p> <p>25.5</p> <p>Sr (1) 4%</p> <p>25.2</p> <p>Sr (1) 4%</p> <p>24.8</p> <p>Sr (1) 4%</p> <p>24.5</p> <p>Sr (1) 4%</p> <p>24.2</p> <p>Sr (1) 4%</p> <p>23.8</p> <p>Sr (1) 4%</p> <p>23.5</p> <p>Sr (1) 4%</p> <p>23.2</p> <p>Sr (1) 4%</p> <p>22.8</p> <p>Sr (1) 4%</p> <p>22.5</p> <p>Sr (1) 4%</p> <p>22.2</p> <p>Sr (1) 4%</p> <p>21.8</p> <p>Sr (1) 4%</p> <p>21.5</p> <p>Sr (1) 4%</p> <p>21.2</p> <p>Sr (1) 4%</p> <p>20.8</p> <p>Sr (1) 4%</p> <p>20.5</p> <p>Sr (1) 4%</p> <p>20.2</p> <p>Sr (1) 4%</p> <p>19.8</p> <p>Sr (1) 4%</p> <p>19.5</p> <p>Sr (1) 4%</p> <p>19.2</p> <p>Sr (1) 4%</p> <p>18.8</p> <p>Sr (1) 4%</p> <p>18.5</p> <p>Sr (1) 4%</p> <p>18.2</p> <p>Sr (1) 4%</p> <p>17.8</p> <p>Sr (1) 4%</p> <p>17.5</p> <p>Sr (1) 4%</p> <p>17.2</p> <p>Sr (1) 4%</p> <p>16.8</p> <p>Sr (1) 4%</p> <p>16.5</p> <p>Sr (1) 4%</p> <p>16.2</p> <p>Sr (1) 4%</p> <p>15.8</p> <p>Sr (1) 4%</p> <p>15.5</p> <p>Sr (1) 4%</p> <p>15.2</p> <p>Sr (1) 4%</p> <p>14.8</p> <p>Sr (1) 4%</p> <p>14.5</p> <p>Sr (1) 4%</p> <p>14.2</p> <p>Sr (1) 4%</p> <p>13.8</p> <p>Sr (1) 4%</p> <p>13.5</p> <p>Sr (1) 4%</p> <p>13.2</p> <p>Sr (1) 4%</p> <p>12.8</p> <p>Sr (1) 4%</p> <p>12.5</p> <p>Sr (1) 4%</p> <p>12.2</p> <p>Sr (1) 4%</p> <p>11.8</p> <p>Sr (1) 4%</p> <p>11.5</p> <p>Sr (1) 4%</p> <p>11.2</p> <p>Sr (1) 4%</p> <p>10.8</p> <p>Sr (1) 4%</p> <p>10.5</p> <p>Sr (1) 4%</p> <p>10.2</p> <p>Sr (1) 4%</p> <p>9.8</p> <p>Sr (1) 4%</p> <p>9.5</p> <p>Sr (1) 4%</p> <p>9.2</p> <p>Sr (1) 4%</p> <p>8.8</p> <p>Sr (1) 4%</p> <p>8.5</p> <p>Sr (1) 4%</p> <p>8.2</p> <p>Sr (1) 4%</p> <p>7.8</p> <p>Sr (1) 4%</p> <p>7.5</p> <p>Sr (1) 4%</p> <p>7.2</p> <p>Sr (1) 4%</p> <p>6.8</p> <p>Sr (1) 4%</p> <p>6.5</p> <p>Sr (1) 4%</p> <p>6.2</p> <p>Sr (1) 4%</p> <p>5.8</p> <p>Sr (1) 4%</p> <p>5.5</p> <p>Sr (1) 4%</p> <p>5.2</p> <p>Sr (1) 4%</p> <p>4.8</p> <p>Sr (1) 4%</p> <p>4.5</p> <p>Sr (1) 4%</p> <p>4.2</p> <p>Sr (1) 4%</p> <p>3.8</p> <p>Sr (1) 4%</p> <p>3.5</p> <p>Sr (1) 4%</p> <p>3.2</p> <p>Sr (1) 4%</p> <p>2.8</p> <p>Sr (1) 4%</p> <p>2.5</p> <p>Sr (1) 4%</p> <p>2.2</p> <p>Sr (1) 4%</p> <p>1.8</p> <p>Sr (1) 4%</p> <p>1.5</p> <p>Sr (1) 4%</p> <p>1.2</p> <p>Sr (1) 4%</p> <p>0.8</p> <p>Sr (1) 4%</p> <p>0.5</p> <p>Sr (1) 4%</p> <p>0.2</p> <p>Sr (1) 4%</p>						
90									
95									
100									

969 Meter
Jerguter

PASMINCO LORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	M5-13	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	D.M.W.	Date	2/1/02

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes with % %	Structure	Veining	Faults	Graphic Log
	Code	Colour							
105				Chl (s) spds. Ss (s) massive	Sr + Mn (0.1%) 101.9	100.6 35-50% LCA 109.0 6-15% LCA		102/0.01/37 N.W. end b. LCA 103.5 0.01/55 N.W. end	
110			Volcaniclastic siltstone	Chl (s) spds. Ss (s) massive	Sr + Mn (tr) 102.3 101.4 100.9 Sr + Mn (tr)	106.6 5-15% LCA		105.1 0.01/64 N.W. end	
115				Mal (s) Kfs (s) Pervasive	Sr + Mn (tr) 101.4 100.9 Sr + Mn (tr)			108.6 0.01/60 N.W. end + brecciated. 109.9 Sluff Seresite / Vermil	
120				Ss (s) massive		116.6 117.2 flow bands = 20% to LCA 117.6 flow bands = 5% to LCA			

PASMINCO PLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hold ID	M-15	Project
Hold Type		Tenement No.
Year		Prospect
Geologist	AMW	Date
		20/10

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
130	TRCH		Up to 3 codes w. mineralies (1-3)	Up to 3 codes with mineralies %		Qtz cl (s)		
	TRCH	Albitic intruse to coarse.	Qtz (s) + Kfs (s) Plumite Cl (s) + Pl (s)	Pl S16m (1-2) 40.	131.5 - 136.0 15.6' cut.			
135	TRCH		134.3	134.3				
	TRCH	brecciated Albitic intruse	Qtz (s) + Kfs (s) S16m (s) + Cl (s) + Pl (s)	En (s) + Pl (s) S16m (s) + Cl (s) + Pl (s)				
140	TRCH		139.2	139.2				
	TRCH		Qtz cl (s) Kfs (s) + Cl (s)					
145	TRCH		139.2	139.2				
	TRCH	Massive Albitic Volcanic intruse. No coarse clasts > 100 mic, pt-gr (1-2) siltst, and even sericite matrix to 15m dia. No chert balls or interbedded fine siltsst.	Qtz (s) Kfs (s) Pl (s) S16m (s)	En (s) + Pl (s) S16m (s) + Cl (s) + Pl (s)				
150	TRCH		137.4	137.4				
	TRCH	137.4 Qtz - low irregular inclusion > green sericite Volcanic intruse	Qtz (s) Kfs (s) + Cl (s)	En (s) + Pl (s) S16m (s) + Cl (s) + Pl (s)				

PASMINCO LORATION

DIAMOND DRILL HOLE LOGGING

Input

Hold ID	73-15	Project	
Hold Type		Tenement No.	
Year		Prospect	
Geologist	APIN	Date	3/1/00

Depth	Lithology	Comments	Alteration Up to 3 codes w. intensity (1-3)	Mineralization Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
150-2	SM-dk	dk. sandstone	Sch (1) K (1) M (1)		150-2 50-55 to 60			
155	CSA	Provenance det. siltstone with interbed. fine med. fine volcaniclastic mudstone to OF in thick. Sandstone units also similar to those above & below.	Sch (1) K (1) M (1) 155-2	f ₂ (1)	154-1 50-55 to 60 155-2 155-3 155-4	UL CL (1)	155-2 155-3 155-4 155-5 155-6 155-7 155-8 155-9 155-10 155-11 155-12 155-13 155-14 155-15 155-16 155-17 155-18 155-19 155-20 155-21 155-22 155-23 155-24 155-25 155-26 155-27 155-28 155-29 155-30 155-31 155-32 155-33 155-34 155-35 155-36 155-37 155-38 155-39 155-40 155-41 155-42 155-43 155-44 155-45 155-46 155-47 155-48 155-49 155-50 155-51 155-52 155-53 155-54 155-55 155-56 155-57 155-58 155-59 155-60 155-61 155-62 155-63 155-64 155-65 155-66 155-67 155-68 155-69 155-70 155-71 155-72 155-73 155-74 155-75 155-76 155-77 155-78 155-79 155-80 155-81 155-82 155-83 155-84 155-85 155-86 155-87 155-88 155-89 155-90 155-91 155-92 155-93 155-94 155-95 155-96 155-97 155-98 155-99 155-100	
160	CSA		Sch (1) K (1) M (1) 160-1	f ₂ (1) Silt. (1) Mud. (1) Cng (1) (1) (1)	160-1 50-55 to 60	CS CL (1)		
165	CSA	Volcaniclastic sandstone - amorphous. clasts of felsic lava & rhyolite to 800's Sub angular - sub rounded	Sch (1) K (1) M (1) 165-1		165-1 50-55 to 60			
170	CSA		Sch (1) K (1) M (1) 170-1	f ₂ (1) Silt. (1) dip. (1) Silt. (1) (1) (1)	170-1 50-55 to 60	CS CL (1)		
175	CSA	Volcaniclastic siltstone - weakly laminated.	Sch (1) K (1) M (1) 175-1					

PASMINCO FLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	M513	Project	
Hole Type		Tenement No.	
Year		Product	
Geologist	APFN	Date	10/07/05

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour	Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
237	CASA	SA	Volcanic Sandstone	Ss(L) Ksp(H-C)	237.1 6-11:35 to LCA			
238	CESI	R-OR	Volcanic siltstone	Ss(L) Gc(H)	238.1 6-11:35 to LCA			
239	CASA	SA	Polymict coarse volcanic sandstone contains sub-angular pebbles, laminae and porphyry to 500 dia. in a red sand matrix Not too sorted	Ss(L)	239.1 6-11:35 to LCA			
240	CESI	PL	Volcanic siltstone - since whole rock tests.	Ss(L)	240.1 6-11:35 to LCA			
241	CPSA	GR-SG	Gravelly to micaceous (clayey) volcanic sandstone - breccia with minor detrital siltstone. Sub-angular clasts of clastic lam. dark grey, when rich in siltstone, siltstone and porphyry in a sandy matrix. clasts to 30 mm dia. obvious fine leucostone in matrix.	Ss(L) Gc(L)	241.1 6-11:35 to LCA			
242								
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PASMINCO PLORATION

DIAMOND DRILL HOLE LOGGIN

Input

Hole ID	K55	Project	
Hole Type		Tenament No.	
Year		Prospect	
Geologist	MVN	Date	10/1/00

Depth	Lithology		Comments	Alteration Up to 3 codes w. intensities (1-3)	Mineralisation Up to 3 codes w. %	Structure	Veining	Faults	Graphic Log
	Code	Colour							
255									
260	CPSA	20-84	<p>should be more about Volcanic breccia and Volcaniclastic tuffstone.</p> <p>clark generally on base except:</p> <p>i) 2612-2650m above coarse angular limestone to base</p> <p>ii) 265-275m rare, 50m rounded clasts of 1/4" siltstone, fensite and fellingite. 1/4" - this is similar to 200m dia. seconds below to 400m dia.</p> <p>think it all one unit - but ss description suggest may be more</p>	<p>Sil (2) Co (3)</p>	<p>2612 B (4) Anhyd S (1) G Co (1) G</p>				
265									
270									
275									

PASMINCC EXPLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	11-15	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	Artur	Date	26/04/07

Depth	Lithology Code	Colour	Comments	Alteration Up to 3 codes w. Intensities (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
236.0	CPSA					13600 Carbonaceous to LCA			
237.7	CPSI	pk-br	Volcaniclastic siltstone.	Sil, Al(OH)3 K(OH) 237.7				13600 fault	
240	CPSA						Qtz Cl (2)		
245	CPSA								
271.1	Pl-Sm								
271.5	CPSI								
277	CPSA								
280	CPSI								

13600 fault

PASMINCC EXPLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	M-13	Project	
Year	2013	Tenement No.	
Geologist	APM	Prospect	
Date	1/1/10		

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code		Up to 3 codes w. intensities (1-3)	Up to 3 codes w. %				
105				P ₂ (3-5%) Vn, dis, silic	308.4 308.4 S ₂ 10° 6' 6" E	Qz (L)		
110	C5S1	Volcanic siliceous, weakly laminated Minor interbedded volcanic sandstone interbeds. Siliceous band in fact to concentration of silice	Sc (1)		308.4 308.4 S ₂ 10° 15' 10" E 308.4 S ₂ 15° 6' 6" E	Qz (L)		308.4 Core orient. 308.7 S ₂ = 85° to 010114
115				Sh ₁ S		Qz (L)		309.6 S ₂ = 85° 10' 088 mag.
120				P ₃ (1-2%) Vn + dis.	312.0 312.0 S ₂ 5° 5' 6" E	Qz (L)		317.2 Core orient. - not available 317.4 S ₂ = 89° 4' 25° mag. 317.8 S ₂ = 85° 10' 170 mag. 318.7 S ₂ = 85° 4' 170 mag.
125	C5S1	fine sand, volcanic siliceous; weakly laminated to 225m; difficult to resolve chat from minor volcanic siliceous interbeds.	Sc (3)	P ₂ (0.5%) dis. 313.4 313.4 S ₂ 10° 6' 6" E 313.4 313.4 S ₂ 15° 6' 6" E	313.0 313.0 S ₂ 5° 5' 6" E 313.0 S ₂ 10° 6' 6" E 313.0 S ₂ 15° 6' 6" E	Qz (L)		313.3 slip conformable

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	15-15	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	MVN	Date	15/10

Depth	Lithology Code	Colour	Comments	Alteration Up to 3 codes w. intervals (1-3)	Mineralisation Up to 3 codes with %	Structure	Veining	Faults	Graphic Log
135	CE53	grey-50	dominantly well laminated v. siltystone ± irregularly seen siltstone interbeds.	Se (2) siltstone Se (1) chert Siltstone Se (2) siltstone Se (1) chert Siltstone Se (2) siltstone Se (1) chert	Sp (1-2) v. Sp (1-2) v. Sp (1-2) v. Sp (1-2) v. Sp (1-2) v. Sp (1-2) v. Sp (1-2) v.	371.5 S ₁₀ to L ₁₀ 373.5 S ₁₀ to L ₁₀	372.3 372.3 373.7 373.7	372.6/37.8 373.5/37.8	
140	CE5A	grey-6h	fine stained, mostly laminated volcanoclastic siltstone. low- to medium-grained; chert difficult to distinguish by lithology but pink, prismatic.	Se (3) cl (1)	Ps (1-2) v. Sp (1-2) v.	373.5 S ₁₀ to L ₁₀	374.2 374.2	374.2/37.8	
165	CE5A	grey-6h	At 165m siltstone weathers into orange fine-medium grained volcanoclastic siltstone ± obvious. More chert.	Se (3) chert Siltstone	Sp (1-2) v. Ps (1-2) v.	376.5 S ₁₀ to L ₁₀	377.2 377.2	376.5/37.8 377.2/37.8	
170	CE53	grey-50	well laminated volcanoclastic siltstone	Se (2) Siltstone	Sp (1-2) v. Ps (1-2) v.	376.3 S ₁₀ to L ₁₀	376.3 376.3	376.3/37.8 376.3/37.8	
195	CE53	grey-50	well laminated volcanoclastic siltstone	Se (3) Siltstone	Sp (1-2) v. Ps (1-2) v.	374.9 S ₁₀ to L ₁₀	373.7 373.7	373.7/37.8 373.7/37.8	

PASMINCO Exploration

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	MS-15	Project	
Hole Type		Tenement No.	
Year		Project	
Geologist	ANVN	Date	15/1/06

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
430			Up to 3 codes w. intensities (1-3) 436.0? c1(c)	Up to 3 codes with % 435.5 8 (17) 43.1% 9 (77) 43.1% 435.4	437.5 So. 45° to LCA	Qz, c1(c)		
435	SL	Woolly laminated black shale. Bedding disturbed by cleavage/shearing. to faultlike common 500-700m calcareous matrix and thin (2-4cm) beds become more common below 435m.	c1(c)	P1 (2-10%) dis. 1/4-1/2 to 1/4-1/2	434.5 So. 65° to LCA		434.9/0.2? broken	
440			442.2	442.0 P2 (15) dis. 440.5 P3 (15) dis. 442.2	437.4 So. 70° to LCA	Qz, c1(c) 337.2 Qz, c1(c)	442.0/0.1? broken 441.9/0.4? SL	
445	SPG	Streaked mudstone with 2 shear Concordance (1) horizon. None. Clark in Concordance are limestone, mica, mica - 0.5% chert and some silstone. Clark generally 400m except for 448.6-449.9 where limestone clasts are up to 20mm dia. see silstone clast to 400m dia in Cor. sil. silstone out	448.2 448.2 448.2	448.2 P4 (15) dis. 448.2 P5 (15) dis. 448.2	448.6 So. 50° to LCA	Qz, c1(c)	448.2 shear broken 448.6 shear Concordance	
450			448.2	448.2		448.2		

PASMINCO EXPLORATION

DIAMOND DRILL HOLE LOGGING

Input

Hole ID	75-5	Project	
Hole Type		Tenement No.	
Year		Prospect	
Geologist	ANZ	Date	17/1/00

Depth	Lithology	Comments	Alteration	Mineralisation	Structure	Veining	Faults	Graphic Log
	Code	Colour	Up to 3 codes w. intensities (1-3)	Up to 3 codes with %				
455	CP5A	grey	SxS(L) ch(L)	P3 (L) db		454 Qz ch(L) 455 Qz ch(L) 456 Qz ch(L)	457/458/459 ? Conformable	455-456 Conformable 457-458 ? Conformable 459 Sheet Broken
460	SS5H/ CP5A	bl-grey	SxS(L) mic SxS(L)	P3 (L) db X(L) db	461.9 Sx-30' to LCA.	461E Qz ch(L) 461S	462/463/464	461E-462 Conformable
465	CP5A	grey-50%		465.1 P3 (L) db	466.2 Sx-30' to LCA. 466.3 Sx-30' to LCA.	Qz ch(L)		465-466 Conformable
470								467-468 East A Hole