

TABLE 1
 ANVIL DISTRICT
 DETAILED LOGGING LITHOSTRATIGRAPHIC CODE
 MAIN DEPOSIT AREA

Unconsolidated Overburden

Unit 11	11	A	Triconed, no recovery
	11	B	Till, silt, sand - all unconsolidated

Intrusive Rocks

Unit 10	928	10	AB	Granite - Anvil Batholith
				10AB _{mm} Mt. Mye phase biotite-muscovite
				10AB _o Orchay phase biotite-hornblende
				10AB _m Majorie phase biotite-hornblende
	939	10	C	Pegmatite
	934	10	E	Biotite-hornblende granite porphyry
	925	10	F	Smokey quartz-feldspar porphyry
	938	10	Q	Bull qtz veins/pods
				1 Foliated/lineated
				2 Porphyritic
				3 Aphanitic
				4 Smokey qtz-bearing
				5 Muscovite-bearing
				6 Kspar-bearing
				7 Biotite-bearing
				8 Amphibole-bearing
				9 Altered (kaolinite, montmorillonite)
				0 Normal (equigranular)

Vangorda Formation

Unit 5	936	5	A	Variably calcareous, graphitic phyllite (= 1E, hosts Units 2/4)
		5	A*	Graphitic fault rock with shear band fabric and vein quartz, altered metabasite clasts
	920		B	Calcareous muscovite-chlorite+/- biotite phyllite (greenschist equivalent of 3D)
	908		C	Metabasite (includes pyroxenite)
	910		D	Chloritic phyllite (also logged as 5F locally)
	904		E	Phyllitic marble and silicated marble
	949		G	Variably calcareous, graphitic phyllite (above basal graphitic unit)
				1 Siliceous
				2 Carbonaceous
				3 Calcareous
				4 Altered, pyritic (white mica envelope)
				5 Banded/laminated
				6 Non-calcareous
				7 Chlorite laminations
				8 Chloritic
				9 Sulfide-bearing
				0 Normal
			*	Carbonate-bearing

Vangorda Formation

Unit 3 913 3 D Calc-silicate phyllite/schist (amphibolite facies equivalent of 5B)

Faro, Grum, Vangorda, Unit 2/4	DY Deposits	Conformable Contact
922 2/4	A	Sulfide-bearing, ribbon-banded, graphitic quartzite
915	B	Pyrite-free quartzite (may contain base metal sulfides)
916	C	Base metal-poor, pyritic quartzite
942	D	Base metal-bearing, pyritic quartzite
918	E	Massive pyritic sulfides
923	F	Buckshot facies, massive pyritic sulfides
928	G	Baritic facies, massive sulfides/sulfates (>10% BaSO ₄)
924	H	Pyrrhotitic facies, massive sulfides
949	J	Non-pyritic, massive sulfides/oxides (vein type sulfides)
921	K	Dolomite-bearing, massive pyritic sulfides
	1	Siliceous
	2	Fine pyrite/marcasite-bearing
	3	Coarse, porphyroblastic pyrite-bearing
	4	Sphalerite and/or galena-bearing
	5	Carbonaceous
	6	Barite-bearing
	7	Pyrrhotite-bearing
	8	Magnetite-bearing
	9	Chalcopyrite-bearing
	0	Normal
	*	Carbonate-bearing

Alteration Facies for Metapelite Units

Unit 2/4L	White muscovite>qtz-chl-bio-phyllite (generally sulfide-bearing)
	1 Siliceous
	2 Pyrite-bearing
	3 Talc/kaolinite-bearing
	4 ZnS and/or PbS-bearing
	5 Carbonate-bearing
	6 Chl-bio>qtz-musc phyllite
	7 Pyrrhotite-bearing
	8 Magnetite-bearing
	9 Chalcopyrite-bearing
	0 Normal

Mt. Mye Formation (Greenschist Facies)

Unit 3 916	3-I	Graphitic quartzite in non-calcareous phyllite/schist
941	G	Non-calcareous muscovite-chlorite+/biotite phyllite/schist (= 1C, 1D)
906	F	Marble and silicated marble (=1G)
963	E	Graphitic phyllite/schist (= 5A)
913	D	Calc-silicate phyllite/schist

908	C	Metabasite (includes pyroxenite)
946	B	Chloritic phyllite/schist (c.f. 5D)
912	3-A	Transition zone with Unit 1 (interbanded chloritic phyllite, graphitic phyllite, and pelites of Vangorda and Mt. Mye Fms.)
	1	Siliceous
	2	Non-calcareous
	3	Calcareous
	4	Altered, pyritic (wme)*
	5	Banded/laminated
	6	Sulfide-bearing
	7	Chlorite laminations
	8	Chloritic
	9	Carbonaceous
	0	Normal

Mt. Mye Formation (Amphibolite Facies)

Unit 1	902	1-B	Tactite and silicated marble (=3F)
	943	C	Quartzo-feldspathic, biotite-muscovite gneiss/schist (= 3G)
	947	D	Carbonaceous biotite-muscovite-andalusite schist (= 3G)
		1CD	Biotite-muscovite-andalusite schist (= 3G) transitional between 1C and 1D
	967	E	Graphitic schist (=5A)
	908	F	Metabasite (=3C), chloritic schist/amphibolite
	901	G	Marble and silicated marble (= 3F)
	910	1-H	Chloritic schist (c.f. 5D)
		1	Siliceous
		2	Carbonaceous
		3	Calcareous
		4	Altered, pyritic (wme)*
		5	Banded
		6	Clotted
		7	Staurolitic
		8	Chloritic
		9	Sulfide-bearing
		0	Normal

*(wme) White mica envelope

Carbonates

* carbonate
 # calcite
 \$ dolomite
 @ ankerite

pigage\lithocod
 March 9, 1990

TABLE 1

ANVIL DISTRICT
DETAILED LOGGING LITHOSTRATIGRAPHIC CODEMAIN DEPOSIT AREA
LITHOSTRATIGRAPHIC CODE

Intrusive Rocks				Carbonates	
Unit 10	928	10-A	Granodiorite (ksp+plag, quartz+10%)		
	929	B	Adamellite (qtz monzonite)	*	carbonate
	939	C	Pegmatite	#	calcite
	956	D	Quartz diorite (ksp+plag, qtz+10%)	\$	dolomite
	934	E	Diorite (ksp+plag, qtz 10%)	@	ankerite
	925	F	Monzonite (ksp+plag, qtz-10%)		
	932	G	Pyroxenite		
	937	H	Granite (ksp+plag, qtz+10%)		
	930	I	Syenite (ksp+plag, qtz+10%)		
	938	Q	Bull qtz veins/pods		
			1 Foliated/lineated		
			2 Porphyritic		
			3 Aphanitic		
			4 Smoky qtz-bearing		
			5 Muscovite-bearing		
			6 Ksp+bearing		
			7 Biotite-bearing		
			8 Amphibole-bearing		
			9 Altered (kaolinite, montmorillonite)		
			0 Normal (equigranular)		
Yangorda Formation		Intrusive Contact			
Unit 5	936	S-A	Variably calcareous, graphitic phyllite (hosts Unit 4; 1 IE, Hosts Unit 2)		
	920	B	Calcareous muscovite-chlorite-biotite phyllite (greenschist equivalent of 2D)		
	908	C	Metabasite		
	910	D	Chloritic phyllite		
	904	E	Phyllitic marble and silicated marble		
	910	F	Laminarily banded, variably calcareous, chloritic phyllite (associated with 5C)		
	949	G	Variably calcareous, graphitic phyllite.		
			1 Siliceous		
			2 Carbonaceous		
			3 Calcareous		
			4 Altered, pyritic (white mica envelope)		
			5 Banded/laminated		
			6 Non-calcareous		
			7 Chlorite laminations		
			8 Chloritic		
			9 Sulfide-bearing		
			0 Normal		
			* Carbonate-bearing		
Faro, Grum, Yangorda, Or Deposits		Conformable Contact			
Unit 2/4	922	2/4-A	Sulfide-bearing, ribbon-banded, graphitic quartzite	2/4L	Muscovite-qtz-chl-bio-phyllite (generally sulfide-bearing)
	915	B	Pyrite-free quartzite (may contain base metal sulfides)		
	916	C	Base metal-poor, pyritic quartzite		
	942	D	Base metal-bearing, pyritic quartzite		
	918	E	Massive pyritic sulfides		
	923	F	Buckshot facies, massive sulfides		
	928	G	Baritic facies, massive sulfides/sulfates (1-10% BaSO ₄)		
	924	H	Pyrrhotitic facies, massive sulfides		
	949	J	Non-pyritic, massive sulfides/oxides		
	921	K	Carbonate-bearing, massive pyritic sulfides		
	914	L			
			1 Siliceous		
			2 Coarse, porphyroblastic pyrite-bearing		
			3 Fine pyrite/marcasite-bearing		
			4 Sphalerite and/or galena-bearing		
			5 Carbonaceous		
			6 Barite-bearing		
			7 Pyrrhotite-bearing		
			8 Magnetite-bearing		
			9 Chalcopyrite-bearing		
			0 Normal		
			* Carbonate-bearing		
			1 Siliceous		
			2 Pyrite-bearing		
			3 Calc/kaolinite-bearing		
			4 ZnS and/or PbS-bearing		
			5 Carbonate-bearing		
			6 Chl-bio-qtz-musc phyllite		
			7 Pyrrhotite-bearing		
			8 Magnetite-bearing		
			9 Chalcopyrite-bearing		
			0 Normal		
Mt. Mye Formation		Conformable Contact			
Unit 3	916	3-1	Graphitic quartzite in non-calcareous phyllite/schist		
	913	H	Tuffaceous calc-silicate phyllite/schist (assoc. with 2D; identical to 5F)		
	941	G	Non-calcareous muscovite-chlorite-biotite phyllite/schist (1 IC, 1D)		
	906	F	Marble and silicated marble (1 3G)		
	963	E	Graphitic phyllite/schist (1 5A)		
	913	D	Calc-silicate phyllite/schist (u. greenschist to amphibolite facies equiv. of 5B)		
	908	C	Metabasite		
	946	B	Chloritic phyllite/schist (c.f. 5D)		
	912	3-A	Transition zone with unit 1 (interbanded chloritic phyllite, graphitic phyllite and pelites of Yangorda and Mt. Mye Fms.)		
			1 Siliceous		
			2 Non-calcareous		
			3 Calcareous		
			4 Altered, pyritic (ume)*		
			5 Banded/laminated		
			6 Sulfide-bearing		
			7 Chlorite laminations		
			8 Chloritic		
			9 Carbonaceous		
			0 Normal		
	902	1-B	Tactite and silicated marble (1 3F)		
	943	C	Quartz-feldspathic, biotite-muscovite gneiss/schist (1 3G)		
	947	D	Carbonaceous biotite-muscovite-andalusite schist (1 3G)		
	967	E	Graphitic schist (1 5A)		
	908	F	Metabasite (1 3C)		
	901	G	Marble and silicated marble (1 3F)		
Unit 1	910	1-H	Chloritic schist (c.f. 5D)		
			1 Siliceous		
			2 Carbonaceous		
			3 Calcareous		
			4 Altered, pyritic (ume)*		
			5 Banded		
			6 Clotted		
			7 Staurolitic		
			8 Chloritic		
			9 Sulfide-bearing		
			0 Normal		

*(ume) white mica envelope