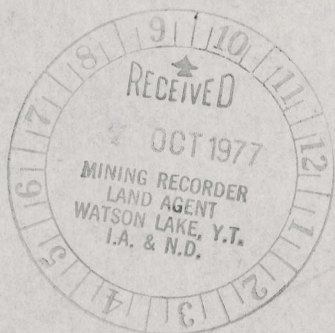


105-F-7

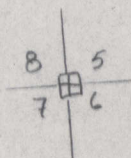
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1977 MM DRILLHOLE LOCATIONS

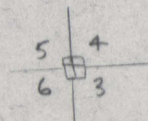


76MM06,07

22,368,000' N



74MM02



77MM01

73MM01

77MM03

74MM01

22,366,000' N

77MM04

77MM02

410,000' E

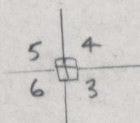
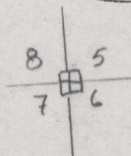
408,000' E

SCALE: 1" = 400'

1977 MM DRILLHOLE LOCATIONS

22,368,000' N

76MM06,07



74MM02

77MM01

73MM01

77MM03 74MM01

77MM02

77MM04

22,366,000' N

410,000' E

408,000' E

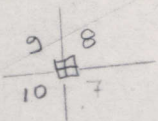
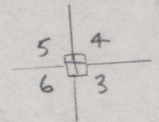
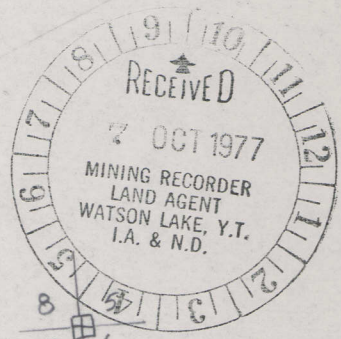
SCALE: 1" = 400'

1977 MM DRILLHOLE LOCATIONS

22,368,000' N



76MM06,07



77MM01

74MM02

73MM01

22,366,000' N

77MM03

74MM01

410,000' E

77MM02

77MM04

408,000

SCALE: 1" = 400'

DD43

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____

MM _____

LOGGED BY: J.K. Mortensen

SHEET NUMBER 1 of 14

SECTION FROM _____ TO _____

STARTED July 9, 1977

LATITUDE _____

DATUM _____

COMPLETED July 21, 1977

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH 1498'

ELEVATION 5970'

DIP -90⁰

PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
0.0	5.0	Overburden												
5.0	61.0	Fossiliferous slightly graphitic dolomite with abundant dolomite veining (brachiopod "chowder")												
61.0	126.0	Fine-grained. Slightly calcareous quartzite with poorly defined composition banding (defined by narrow, slightly graphitic bands making up approx. 40% of unit).												
126.0	142.0	Locally slightly graphitic (in diffuse bands to 2 cm. wide) micaceous quartzite. Abundant small rootless folds defined by composition banding.												
142.0	159.5	Clean fine-grained quartzite. Slightly calcareous throughout. Minor slightly rusty deformed quartzite bands from 158.0 - 159.5'. Almost massive with vague S ₂ schistosity.												
159.5	173.5	Pyritic and pyrrhotitic quartzite-K-feldspar-muscovite-chlorite-biotite schist. Sulphides in												

- Continued -



Core stored at Cyprus Anvil Mine site

DD43

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____ MM _____

LOGGED BY: J. K. Mortensen

SHEET NUMBER 3 of 14 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1498'

ELEVATION 5970' DIP -90° PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
215.5	217.5	Pyritic and pyrrhotitic quartzite-k-feldspar-muscovite-chlorite-biotite schist as in interval 159.5 - 173.5', but more quartz-rich and with less sulphides.												
217.5	244.0	Non-calcareous slightly graphitic quartzite. Graphite+muscovite+chlorite increases towards bottom.												
244.0	265.5	Fine-grained quartzite with trace amount of graphite and with abundant quartzite-calcite veining. Locally highly limonitic. Locally minor pyrite in vein material. S ₂ at 65° to axis throughout.												
265.5	271.5	Fault zone - highly sheared and brecciated 265.5-267.0'; Gouge development 267.0 - 271.5'.												
271.5	480.0	Non-calcareous quartzite with narrow diffuse, slightly graphitic bands. Becomes slightly												

- Continued -

2043

DIAMOND DRILL RECORD,

HOLE NO. _____

77 MM 01

PROPERTY _____

MM

LOGGED BY: J. K. Mortensen

SHEET NUMBER 4 of 14

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH 1498'

ELEVATION 5970'

DIP -90°

PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
271.5	480.0	- Continued - calcareous in bottom 100'. Decreasing graphite content downwards. Abundant slightly limonitic quartz-veining at 299.5 - 303.0'. Fault gouge at 309.0', 317.0' - 318.0' and 359.5'.												
480.0	483.0	Slightly calcareous clean quartzite with occasional clots (clasts?) of calcite+chlorite with limonitic haloes.												
483.0	498.0	Non-calcareous schistose quartzite with abundant rhodonite(?) -rich bands to 2 cm. thick (make up approximately 20% of rock).												
498.0	511.5	Serpentinized ultramafic (greater than 90% serpentine). Highly sheared and brecciated with calcite-cement (frame work supported).												
511.5	529.0	Quartzite-K-feldspar-chlorite-muscovite schist, slightly calcareous throughout. Minor quartz-												

- Continued -

2243

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____ MM _____

LOGGED BY: J. K. Mortensen

SHEET NUMBER 6 of 14

SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____

DATUM _____ COMPLETED _____

DEPARTURE _____

BEARING _____ ULTIMATE DEPTH 1498'

ELEVATION 5970'

DIP -90 PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
629.0	679.5	As in interval 582.0 - 600.5' with more garnet. Non-calcareous. 5-10% biotite throughout. Traces of sphalerite increasing towards bottom. Approx. 15% sphalerite at 676.0 - 679.5' with traces of galena.												
679.5	713.5	Well-banded chlorite-quartzite-biotite schist. Biotite concentrated in bands less than 1 mm. thick. Talc increases downwards. Minor cordierite(?) at 711.0 - 713.5'. Pyrite, pyrrhotite and traces of sphalerite disseminated throughout.												
713.5	716.0	Very slightly graphitic quartzite-K-feldspar-muscovite schist with minor banded cordierite(?) throughout.												
716.0	762.5	Well-banded chlorite-quartzite-muscovite-biotite schist. Locally abundant garnet porphyroblasts to 2 mm. diameter. Minor cordierite in bands at												

716.0 - 723.0'.

DIAMOND DRILL RECORD,

PROPERTY _____
MM

HOLE NO. 77 MM 01

LOGGED BY: J. K. Mortensen

SHEET NUMBER 8 of 14

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH 1498'

ELEVATION 5970'

DIP -90°

PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
794.0	799.0	As in interval 786.5 - 793.0 with less chlorite, more biotite, more pyrite.												
799.0	809.5	Locally garnetiferous (from 809.0') talc-chlorite-quartzite-muscovite schist. Highly pyritic and pyrrhotitic. Traces of chalcopyrite throughout increasing downwards. Talc content increases downwards.	8003	808.5 -813.5	0.13	0.02	0.58	3.06						
809.5	829.0	Garnetiferous quartzite-chlorite-biotite-muscovite-talc schist. 2-4% sphalerite. Mainly banded (locally with galena and chalcopyrite in center of bands) and minor disseminated sphalerite.	8004	813.5 -818.5	0.48	0.02	3.20	6.00						
			8001	818.5 -823.5	0.15	0.02	0.70	1.42						
			8002	823.5 -828	0.18	0.03	0.76	1.64						
			8005	828 -833	0.06	TR	0.10	0.17						
829.0	843.0	Garnetiferous quartzite-chlorite-talc schist with minor disseminated sphalerite.	8006	833 -837.5	TR	TR	0.05	0.12						
			8007	837.5 -842.5	0.06	0.03	0.03	0.14						
843.0	873.0	Pyritic talc-quartzite-chlorite schist with traces of disseminated sphalerite and chalcopyrite.	8008	865.5 -870.5	0.12	0.01	0.10	0.33						
			8009	870.5 -875.5	0.09	0.02	0.31	0.89						
873.0	878.0	Well-banded garnetiferous quartzite-chlorite-	8010	875.5 -880.5	0.15	0.02	0.21	1.06						

- Continued -

DD43

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____ MM _____

LOGGED BY: J. K. Mortensen

SHEET NUMBER 9 of 14 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1498'
 ELEVATION 5970' DIP -90⁰ PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
873.0	878.0	- Continued -												
		muscovite-talc schist with 2-4% banded sphalerite.												
878.0	921.5	Pyritic quartzite-chlorite-biotite-muscovite-talc schist. Non-calcareous.	8011	904.5 -909.0	0.18	0.10	0.24	2.35						
			8012	909.0 -912	0.11	0.01	0.12	0.47						
921.5	942.0	As above but with approximately 4% bands sphalerite. Porphyroblasts of pyrite to 2 mm. diameter within the sphalerite-rich bands. Locally galena cores in the sphalerite-rich bands. Sphalerite is dark brown throughout but honey-coloured at 934.0 - 934.5'.	8013	918 -923	0.09	0.03	0.11	0.83						
			8014	923 -925.5	0.12	0.07	0.24	1.42						
			8015	925.5 -927.5	0.37	0.15	0.80	5.60						
			8016	927.5 -932.5	0.18	0.04	0.30	1.92						
			8017	932.5 -937.5	0.22	0.07	0.34	4.32						
			8037	937.5 -942.5	0.18	0.02	0.06	2.35						
942.0	963.5	As in interval 878.0 - 921.5' with traces of sphalerite.												
963.5	987.0	Quartzite-chlorite schist. Locally garnetiferous. Abundant banded sphalerite (6-8% by volume). Almost massive bands of pyrrhotite at 971.5-973.0' and 974.0 - 975.0'.	8018	963 -967	0.04	0.02	0.05	0.65						
			8019	967 -971	0.09	0.12	0.13	1.63						
			8020	971 -976	0.13	0.38	0.10	7.73						
			8021	976 -981	0.10	.28	0.07	4.03						

- Continued -

DD43

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____ MM

LOGGED BY: J. K. Mortensen

SHEET NUMBER 10 of 14 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1498'
 ELEVATION 5970' DIP -90° PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
963.5	987.0	- Continued -												
			8022	981 -985	0.07	0.26	0.03	1.68						
			8023	985 -989	0.44	0.75	0.11	3.50						
987.0	1035.0	Well-banded quartzite-chlorite-garnet schist.	8024	989 -994	0.04	0.03	0.02	0.08						
		Occasional bands to 2 cm. thick of pyrrhotite+	8025	994 -998.5	0.06	0.04	0.02	0.18						
		pyrite+minor chalcopryrite. Several narrow bands of	8051	998.5 -1004	0.03	0.40	0.02	0.10						
		sphalerite at 1028.0 - 1029.0'. Blue-green	8052	1004 -1009	0.06	0.24	0.01	0.16						
		fluorite in quartz-vein at 1018'. Cordierite	8053	1009 -1014	0.13	0.09	0.13	0.52						
		appears as discrete irregular crystals (blasts?)	8054	1014 -1017	0.04	0.31	0.03	0.27						
		at 1019.0' and as a band approximately 1 cm. thick	8055	1014 -1021.5	0.03	0.30	0.03	0.25						
		at 1033.0'.	8056	1021.5 -1026.5	0.04	0.07	0.02	0.10						
			8057	1026.5 -1030	0.12	0.07	0.14	0.29						
			8058	1030 -1035	ND	0.07	0.03	0.51						
1035.0	1056.0	As above but with more abundant sphalerite and	8059	1035 -1040	0.18	0.39	0.02	0.64						
		chalcopryrite. Approximately rectangular cordier-	8060	1040 -1045	0.07	0.19	0.05	0.97						
		ite blasts(?) to 5 mm. diameter at 1037.5'.	8061	1045 -1049	0.09	0.37	0.02	1.68						

- Continued -

2043

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____ MM _____

LOGGED BY: J.K. Mortensen

SHEET NUMBER 11 of 14 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1498'

ELEVATION 5970' DIP -90° PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
1035.0	0156.0	- Continued -												
		Approximately 0.5% chalcopyrite, 1% sphalerite.	8062	1049 -1054	0.03	0.14	0.01	0.63						
			8063	1054 -1060	0.16	0.29	0.10	3.37						
1056.0	1063.0	As above but with approximately 25% banded sphalerite, 2% banded chalcopyrite, and minor banded pyrrhotite and disseminated pyrite.	8064	1060 -1062.5	0.66	0.31	0.67	17.5						
1063.0	1065.0	As above but with approximately 6% banded sphalerite and minor banded and stringer chalcopyrite.	8065	1062.5 -1067.5	0.57	0.61	0.52	10.3						
1065.0	1068.0	As above with approximately 20% banded sphalerite, 0.5% chalcopyrite.												
1068.0	1084.0	Well-banded quartzite-chlorite schist, locally slightly garnetiferous. Approximately 4% banded sphalerite throughout. Decreases in bottom 8' of interval. Traces of cordierite associated with sphalerite at 1071.0'.	8066	1067.5 -1072.5	0.16	0.21	0.10	3.20						
			8067	1072.5 -1077	0.04	0.08	0.05	3.09						
			8068	1077 -1081	0.04	0.09	0.08	2.39						
			8069	1081 -1086	0.03	0.02	0.01	0.27						

DD43

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 01

PROPERTY _____ MM

LOGGED BY: J.K. Mortensen

SHEET NUMBER 13 of 14 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1498'
 ELEVATION 5970' DIP -90° PROPOSED DEPTH 1500'

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
1163.0	1173.0	Thinly interbanded quartzite-muscovite schist as above and quartzite-chlorite-biotite-muscovite schist as in interval 1150.0 - 1160.0', bands to 10 cm. thick, average 2 cm.												
1173.0	1218.0	Slightly to highly graphitic fine-grained quartzite, locally slightly pyritic.												
1218.0	1231.0	Pyritic quartzite-muscovite-chlorite-biotite schist												
1231.0	1233.5	As in interval 1173.0 - 1218.0' but with more muscovite+chlorite.												
1233.5	1304.0	Rhyolitic agglomerate. Locally fragments to 10 cm. diameter in massive to vaguely schistose rhyolitic matrix.												
1304.0	1305.5	As in interval 1231.0 - 1233.5'.												
1305.5	1358.0	Variable composition quartz-rich schist. Locally slightly graphitic. Locally quartzite-muscovite-chlorite-biotite schist, locally chlorite-quartzite												

- Continued -

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 03

PROPERTY _____ MM _____

LOGGED BY: J. K. Mortensen

SHEET NUMBER 1 of 7

SECTION FROM _____ TO _____

STARTED August 5, 1977

LATITUDE _____

DATUM _____

COMPLETED August 14, 1977

DEPARTURE _____

BEARING _____

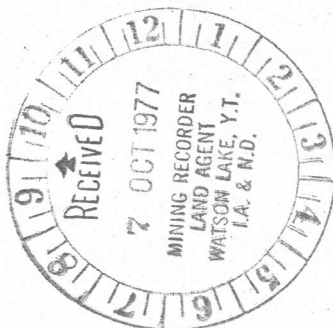
ULTIMATE DEPTH 1477'

ELEVATION 5780'

DIP -90°

PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
0.0	14.0	Overburden.												
14.0	205.0	Moderately to slightly calcareous quartzite, locally with narrow, diffuse slightly graphitic bands. Locally traces of disseminated pyrite.												
205.0	264.5	Ultramafic; slightly calcareous quartzite-talc-chlorite schist with large porphyroblasts of actinolite to 1 mm. diameter, 2 cm length. Pyrite porphyroblasts to 1.5 cm. diameter. Approximately 70% massive pyrite 239.0 - 240.5'. Minor disseminated magnetite.												
264.5	322.0	Non-calcareous, locally slightly pyritic, fine-grained calc-silicate schist. Locally mottled texture (small quartz(?) rich mottles to 1.5 mm diameter in a finer-grained groundmass). Much minor deformation.												
322.0	327.0	Ultramafic as in interval 205.0 - 264.5'.												



Core stored at Cyprus Anvil Mine Site.

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 03

PROPERTY _____ MM _____

LOGGED BY: J. K. Mortensen

SHEET NUMBER 3 of 7 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1477'
 ELEVATION 5780' DIP -90° PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
740.0	765.0	Pyritic quartzite-biotite-chlorite-muscovite schist. Locally slightly garnetiferous (to 3% garnet, to 1 mm diameter). Traces of banded sphalerite at 751.0'.												
765.0	801.5	Pyritic slightly graphitic quartzite locally with abundant chlorite + biotite. Minor banded sphalerite and traces of galena at 789.0', 791.0 - 792.0', and 794.0'.												
801.5	807.0	Quartzite-muscovite-chlorite schist. Moderately pyritic. Highly sheared and brecciated in lower 3' of interval.												
807.0	813.0	Highly pyritic and pyrrhotitic quartzite-muscovite-chlorite schist, locally with minor disseminated sphalerite.												
813.0	823.5	Highly pyritic quartzite-muscovite-chlorite schist with minor banded sphalerite at 815.0' and 820.0'.	8072	813.5 -818.5	0.15	0.01	0.15	0.31						

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 03

PROPERTY _____ MM

LOGGED BY: J. K. Mortensen

SHEET NUMBER 4 of 7 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1477'
 ELEVATION 5780' DIP -90° PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
813.0	823.5	- Continued -												
		Highly sheared with some gouge development at	8073	818.5 -823.5	0.06	0.03	0.03	0.11						
		816.0 - 822.0'. Abundant quartzite - sweats.												
823.5	825.5	Quartzite-chlorite-muscovite schist with abundant												
		banded sphalerite and pyrite and minor pyrrhotite,	8074	823.5 -826	0.73	0.74	1.60	5.70						
		galena, and chalcopyrite.												
825.5	836.0	Massive sulphides (sphalerite-pyrrhotite-pyrite-	8075	826.0 -828.5	2.54	2.15	4.35	12.3						
		galena-chalcopyrite) locally with minor inter-	8026	828 -830.5	1.37	1.19	2.58	7.56						
		banded quartzite-muscovite schist. Felsic frag-	8027	830.5 -832.5	4.35	1.20	9.00	19.0						
		ments of rhyolitic (?) composition to 1 cm. diameter	8028	832.5 -835	5.69	0.70	15.3	15.3						
		Also small quartz-eyes to 0.5 cm. diameter locally	8029	835 -840	0.50	0.48	0.77	4.95						
		developed.												
836.0	871.0	Quartzite-chlorite-muscovite schist with banded	8030	840 -845	0.26	0.58	0.20	2.20						
		chalcopyrite and sphalerite and minor pyrrhotite	8031	845 -849.5	0.44	0.52	0.17	2.55						
		and galena. Locally slightly garnetiferous.	8032	849.5 -854.5	1.37	1.95	0.45	3.50						
			8033	854.5 -859.5	0.73	0.98	0.25	1.88						

- Continued -

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 03

PROPERTY _____
MM

LOGGED BY: J.K. Mortensen

SHEET NUMBER 5 of 7 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH 1477'
 ELEVATION 5780' DIP -90⁰ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
836.0	871.0	- Continued -												
			8034	859.5 -864.0	0.18	0.27	0.07	0.70						
			8035	864.0 -869.0	0.12	0.12	0.07	2.50						
871.0	877.0	Quartzite-muscovite-chlorite schist (locally slightly micaceous quartzite) with minor banded and stringer pyrite, pyrrhotite and sphalerite.	8036	869.0 -873.5	0.06	0.09	0.03	0.74						
877.0	887.0	Well-banded quartzite-biotite-muscovite schist.												
887.0	923.0	Poorly-banded quartzite-biotite-muscovite schist with minor chlorite and disseminated pyrite.												
923.0	987.6	Variable composition quartzite-muscovite schist; locally banded quartzite with micaceous partings, locally more biotite+chlorite-rich. Disseminated pyrite and pyrrhotite throughout, locally minor banded pyrite and stringer pyrrhotite.												
987.6	1014.0	Well-banded quartzite-muscovite-biotite-chlorite schist with minor disseminated pyrite and												

- Continued -

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 04

PROPERTY _____ MM

LOGGED BY: J. K. Mortensen

SHEET NUMBER 1 of 4 SECTION FROM _____ TO _____ STARTED August 16, 1977

LATITUDE _____ DATUM _____ COMPLETED August 25, 1977

DEPARTURE _____ BEARING 320° ULTIMATE DEPTH 1145'

ELEVATION _____ DIP -60° PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
0.0	4.0	Overburden.												
4.0	334.5	Locally slightly micaceous (MS) quartzite with narrow diffuse slightly graphitic bands.												
334.5	428.0	Interbanded chloritic, slightly to moderately calcareous quartzite (dominant, approximately 70% of unit) and non-chloritic, slightly calcareous quartzite locally with diffuse, slightly graphitic bands, abundant calcite veining.												
428.0	439.5	Ultramafic; Highly magnetiferous (locally to 90% by volume over 2.5') serpentinite. Locally highly chloritized and sheared minor pyrrhotite present in blebs and stringers.												
439.5	450.0	Breccia zone: Angular clasts of limestone to 6 cm. diameter in chlorite and calcite matrix fragments make up 90% by volume.												



Core stored at Cyprus
Anvil Mine Site

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 04

PROPERTY _____

MM

LOGGED BY: J.K. Mortensen

SHEET NUMBER 2 of 4 SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING 320⁰ ULTIMATE DEPTH 1145'
 ELEVATION _____ DIP -60⁰ PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
450.0	463.0	Fine-grained calc-silicate schist. Well-banded, highly deformed.												
463.0	572.0	Interbanded moderately to highly graphitic marble and locally chloritic calc-silicate schist as above. Marble dominant (80%) in upper 10' decreases rapidly downwards. Bottom 50' of section 90% calc-silicate schist.												
572.0	690.5	Pelitic schist (quartzite-muscovite-biotite-chlorite) locally moderately to highly garnetiferous. Chlorite increases downwards for upper 20' of interval, then decreases with increasing biotite. Garnet decreases, quartz increases downwards. Minor banded sphalerite at 592.0'. Minor disseminated pyrite throughout.												
690.5	750.0	Highly pyritic quartzite-muscovite-chlorite-bitotite schist and minor quartzite. Minor disseminated												

--Continued--

DIAMOND DRILL RECORD,

HOLE NO. 77 MM 04

PROPERTY _____ MM

LOGGED BY: J. K. Mortensen

SHEET NUMBER 3 of 4 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

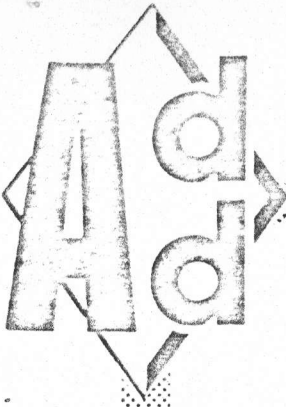
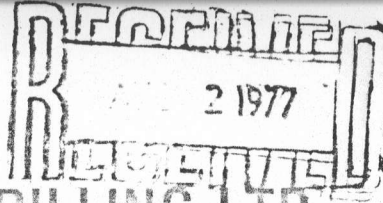
DEPARTURE _____ BEARING 320° ULTIMATE DEPTH 1145'

ELEVATION _____ DIP -60° PROPOSED DEPTH _____

DEPTH FEET	CORE RECOV	DESCRIPTION	CORE SAMPLE NO.	FOOTAGE	CORE ASSAYS				SLUDGE SAMPLE NO.	FOOTAGE	SLUDGE ASSAYS			
					AG.	CU.	PB.	ZN.			AG.	CU.	PB.	ZN.
690.5	750.0	- Continued - pyrrhotite, increasing downwards. Minor banded sphalerite at 749.5 - 750.0'.												
750.0	800.0	Highly garnetiferous chlorite-quartzite-biotite schist. Minor banded sphalerite at 750.0 - 750.5' and 789.5 - 790.0'.	8038	799.5 -804.5	0.40	0.13	0.43	3.90						
800.0	814.0	Garnetiferous petlitic schist (quartzite-chlorite- muscovite-biotite) with approximately 3-4% banded sphalerite, 1-2% disseminate pyrite, and traces of chalcopyrite associated with the sphalerite bands.	8039	804.5 -809.5	0.18	0.05	0.09	1.82						
			8040	809.5 -814.5	0.15	0.04	0.05	2.17						
814.0	855.0	Garnetiferous pelitic schist as above, locally muscovite rich. Minor banded sphalerite (1%) at 831.0 - 834.0'.												
855.0	876.0	Garnetiferous pelitic schist as above with approximately 1% banded sphalerite throughout.												
876.0	927.0	Garnetiferous pelitic schist as above with traces												

- Continued -

DD43



ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

INVOICE #1937

July 15, 1977

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.
V6C 2G8

WORK DONE DURING THE PERIOD
JULY 5 - JULY 23, 1977

091138

Drilling charges on MM Project for the period July 5 - 15/77

Mobilization

Re: clause 14 of contract - 1/2 x \$1600.00 = \$ 800.00

Moving

Moving onto first set up including
helicopter delays

204 man hours @ \$15.85 per hour = 3,233.40 \$4,033.40

Hole: #77-1 x 90° x BQ

Overburden

0 - 10 = 10 feet @ \$14.75 per foot = \$ 147.50

Core Drilling

10 - 500 = 490 ft. @ \$14.75 per ft. = \$7,227.50

500 - 607 = 107 ft. @ \$15.25 per ft. = 1,631.75 \$8,859.25 \$9,006.75

TOTAL INVOICE

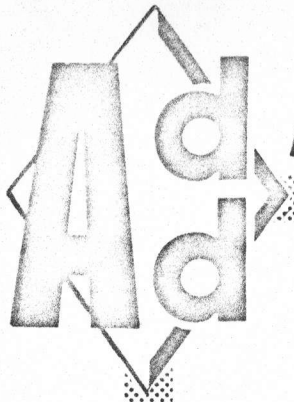
\$13,040.15

c.c. Peter Dean, Ross River, Y.T.

ACCOUNT	2503-08	13 040 15
TOTAL		13 040 15
	UP	

C C M. PARKER

AUG 17 1977



ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

INVOICE #1943

July 31, 1977.

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.
V6C 2G8

Drilling charges on M.M. Project for the period July 16 - 31, 1977

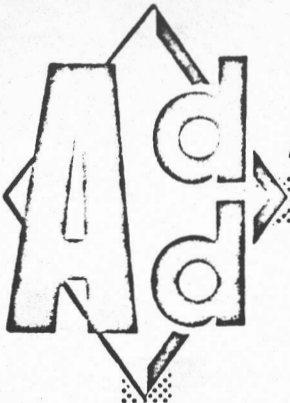
<u>Hole: #77-1 x 90° x BQ</u>			
<u>Moving</u>			
Slinging core boxes down & rods up to setup			
9 man hours @ \$15.85 per hour =		\$142.65	
<u>Core Drilling</u>			
607 - 1000 = 393 feet @ \$15.25 per ft. =	\$5,993.25		
1000 - 1498 = 498 ft. @ \$15.75 per ft. =	7,843.50	13,836.75	
<u>Reaming Through Cave</u>			
35 man hours @ \$15.85 per hour =	\$554.75		
17½ machine hours @ \$9.50 per hour =	166.25	721.00	
<u>Testing</u>			
19 man hours @ \$15.85 per hour =	\$301.15		
9½ machine hours @ \$9.50 per hour =	90.25	391.40	
<u>Materials Left in Hole</u>			
1 BW casing shoe	\$137.55		
1 - 10 ft. length BW casing	54.00		
3 - 2 ft. lengths NW casing	56.25		
	\$247.80		
Plus 10%	24.78	272.58	\$15,364.38

<u>Hole: #77-2 x 90° x BQ</u>			
<u>Moving</u>			
131 man hours @ \$15.85 per hour =		\$2,076.35	
<u>Overburden</u>			
0 - 3 = 3 feet @ \$14.75 per foot =		44.25	
<u>Core Drilling</u>			
3 - 500 = 497 feet @ \$14.75 per ft. =	\$7,330.75		
500 - 1000 = 500 ft. @ \$15.25 per ft. =	7,625.00		
1000 - 1158 = 158 ft. @ \$15.75 per ft. =	2,488.50	17,444.25	
<u>Reaming Through Cave</u>			
5 man hours @ \$15.85 per hour =	\$ 79.25		
2½ machine hours @ \$9.50 per hour =	23.75	103.00	

...../2

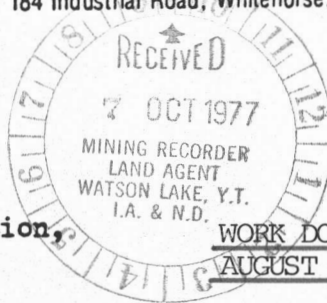
CC. M. PARKER MM. OK f.

091138



ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434



INVOICE #1956
September 2/77

IN ACCCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.
V6C 2G8

WORK DONE DURING THE PERIOD
AUGUST 25 - SEPTEMBER 2, 1977

Drilling charges for the period August 13 - September 2/77 - M.M.Project

Hole: #77-4 x 60° x BQ

Moving

90 man hours @ \$15.85 per hour = \$1,426.50

Overburden

0 - 20 = 20 feet @ \$14.75 per foot = 295.00

Reaming Casing in Bedrock

20 - 34 = 14 feet @ \$10.00 per foot = 140.00

Core Drilling

20 - 500 = 480 ft. @ \$14.75 per foot = \$7,080.00

500 - 1000 = 500 ft. @ \$15.25 per ft. = 7,625.00

1000 - 1145 = 145 ft. @ \$15.75 per ft. = 2,283.75

Testing

8 man hours @ \$15.85 per hour = \$ 126.80

4 machine hours @ \$9.50 per hour = 38.00

Materials Left in Hole

17 only 2' lengths BW casing @ \$17.85 = \$ 303.45

1 only BW casing shoe 151.00

\$454.45

Plus 10%

45.44

499.89

\$19,514.94

Demobilization

Re: clause 14 of contract - 1/2 x \$1600.00 = \$ 800.00

Moving

Moving off last setup and packing up and moving to the DuPont property on Seagull Creek as agreed with Glen Simpson

133 man hours @ \$15.85 per hour = \$2,108.05

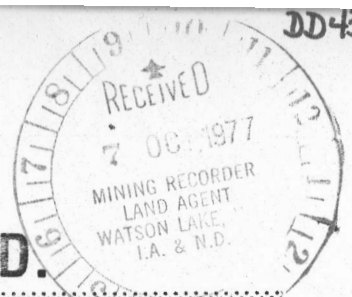
\$ 2,908.05

TOTAL INVOICE

\$22,422.99

DD43

4.)



ARCTIC DIAMOND DRILLING LTD.

184 Industrial Road, Whitehorse, Yukon Y1A 2V1 (403) 667-6434

INVOICE #1950

091138

August 15, 1977

IN ACCOUNT WITH:

Cyprus Anvil Mining Corporation,
330 - 353 Burrard Street,
Vancouver, B.C.
V6C 2G8

WORK DONE DURING THE PERIOD
AUGUST 2 - AUGUST 14, 1977

Drilling charges on M.M. Project for the period August 1 - 14, 1977

Hole: #77-2 x 90° x BQ

Core Drilling

1158 - 1260 = 102 feet @ \$15.75 per foot = \$1,606.50

Testing

12 man hours @ \$15.85 per hour = \$190.20

6 machine hours @ \$9.50 per hour = 57.00 \$ 247.20 \$ 1,853.70

Hole: #77-3 x 90° x BQ

Moving

100 man hours @ \$15.85 per hour = \$1,585.00

Standby - waiting on chopper

32 man hours @ \$15.85 per hour = \$ 507.20

Overburden

0 - 18 = 18 feet @ \$14.75 per foot = \$ 265.50

Core Drilling

18 - 500 = 482 ft. @ \$14.75 per foot = \$7,109.50

500 - 1000 = 500 ft. @ \$15.25 per ft. = 7,625.00

1000 - 1477 = 477 ft. @ \$15.75 per ft. = 7,512.75 22,247.25

Testing

10 man hours @ \$15.85 per hour = \$ 158.50

5 machine hours @ \$9.50 per hour = 47.50 206.00 \$24,810.95

2503-08 2666465

TOTAL INVOICE

\$26,664.65

2666465

up



PAID