

K 105K03/1284
VOL 1 UNC
Cyprus Anvil Mining Corporation, Pelly River Mines Limited

1976/01/01 1976/01/01

REVIEW OF 1975 EXPLORATION ON PELLY RIVER MINES CLAIMS ANVIL DISTRICT, YUKON TERRITORY

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Vancouver, B.C.
January 1976

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REVIEW OF 1975 EXPLORATION ON PELLY RIVER MINES CLAIMS, ANVIL DISTRICT, YUKON TERRITORY

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23 January, 1976

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INTRODUCTION

Surface exploration for large, near-surface, massive sulfide deposits on Pelly River Mines claims located in the Anvil District, Yukon Territory, was completed in 1975, and no significant targets for this type of deposit have been left untested. In 1975, most of the exploration turned to search for deep seated sulfide deposits - those beyond the reach of the conventional exploration methods. This exploration consisted of deep drilling of areas thought to be underlain by the favourable geologic horizons - the extensions of horizons mineralized elsewhere in the district. The primary zone of interest was on the Tie claims which are located about 800 feet to the northwest of the recently (1973) discovered Grum sulfide zone. The Tie claims cover the area of the downplunge projection of this sulfide zone. The second zone of interest was the Bill claims, which cover possible downdip extensions of the Faro ore zone which is located about 3,000 feet to the northeast of the Bill claim boundary.

In addition to the deep drilling, three zones of potential near-surface mineralization were explored in 1975. Of these remaining near-surface targets, the first area of interest was the Tie claims, which cover ten high magnetic anomalies adjacent to an E-M conductor which strikes into, and which may be related to, the Firth sulfide zone. The second area of interest was on the Gale claims, where a Turam electromagnetic conductor was found in 1973, and compilation of existing information shows some anomalous copper, lead and zinc values in rotary drill cuttings collected in 1971. The third area of interest for near-surface mineralization was on the Gale claims where some high gravity values were found in a zone of anomalous magnetic and electromagnetic anomalies, and where rock units, similar to those associated with the Vangorda deposit, exist.

The cost of the 1975 exploration work on Pelly River was $148,352.50, details of which are shown in Appendix I.

DEEP DRILLING - FARO AND BILL CLAIM AREA

Five drill holes, two of which were on Pelly River Mines Bill claims, were drilled to follow the downdip projections of the Faro mineralized horizon. Four of the holes, 456-75-12, 456-75-13, 456-75-14 and 75-11, form a fence, and all were drilled in excess of 2,100 feet. These holes are along mine section 118 which was selected for deep drilling to provide factual geological data and to verify existing geological interpretation. The holes, starting from the Anvil mine at the northeast to the tailings pond at the southwest, are Engineering's 75-11, drilled in the orebody, and Exploration's 456-75-12, 456-75-13 and 456-75-14, drilled downdip from the Faro orebody. The type geology section 118 strikes N 45 E - S 45 W and extends southwest from the Faro No. 3 sulfide deposit for a length of about 6,500 feet. The fifth hole, 456-75-15, located 1,000 feet southwest of the Faro No. 3 orebody, intersected the Faro ore horizon from 722.5 feet - 773 feet, which assayed 7.95% lead plus zinc. Dumpsite hole 71 DS 1, drilled in 1971, located on section 130 about 1,000 feet southwest of 456-75-15, intersected the Faro ore horizon and assayed less than 3% lead plus zinc.

Results of Deep Drill Holes

Two deep drill holes, 456-75-13 and 456-75-14, were completed on Bill claims 38 and 37, respectively. Hole 456-75-13, drilled to 2,632 feet, is located about 4,100 feet southwest from the presently known southwestern edge of the Faro No. 3 orebody, and approximately 3,400 feet to the southwest of sulfides encountered in drill hole 456-75-15 but are not included as part of the Faro orebody.

Hole 456-75-14, drilled to 2,457 feet, is located 2,000 feet approximately S 45 W of hole 456-75-13 and was drilled past the depth of the sulfide horizon as indicated by geological projection and by "stratigraphy".

Sulfide mineralization was not encountered in hole 456-75-14.

Details of the above drill holes are presented below.

Hole 456-75-13, a 2,632 foot vertical hole on Bill 38 mineral claim, is located at mine co-ordinates 5,867.0N, 11,096.6E, at a relative mine elevation of 3,812.5 feet. This hole encountered:

0.0 - 29.5	Overburden.
29.5 - 856.0	Calc. silicate Phyllite.
856.0 - 1,623.0	Upper Member Schist Unit.
	856.0 - 962.0 - Carbonaceous biotite, muscovite, andalusite schist.
	962.0 - 1,054.0 - Graphitic quartz muscovite schist.
	1,054.0 - 1,318.5 - Biotite, muscovite, andalusite schist.
	1,318.5 - 1,357.75- Graphitic quartz muscovite schist.
	1,357.75- 1,623.0 - Quartz muscovite, andalusite schist.
1,623.0 - 1,798.0	Transition Zone Schists - Biotite, muscovite, andalusite schist.
1,798.0 - 2,632.0	Lower Member Schist Unit.
	1,798.0 - 2,214.0 - Quartzo feldspathic biotite, muscovite, andalusite schist.
	2,214.0 - 2,250.0 - Tactite sequence.
	2,256.0 - 2,632.0 - Quartzo feldspathic biotite, muscovite, andalusite, staurolite schist.

This is elev of 456-75-15

Hole 456-75-14, a 2,417 foot vertical hole on Bill 37 mineral claim, is located at mine co-ordinates 4,523.9N, 9,586.0E at an elevation of ~~4,008.4~~ Incorrect RBT 3730.8' feet. This hole is located about 2,000 feet southwest of Hole 456-75-13 and also was designed to test the favorable mineralized horizon downdip from the Faro orebodies. This hole encountered:

0.0 - 1.0	Triconed phyllite.
1.0 - 98.0	Calcareous biotite, chlorite, muscovite phyllite.
98.0 - 558.0	Calc. Silicate Unit.
558.0 - 654.0	Lower Calc. Silicate Unit.
	558.0 - 562.0 - Graphitic phyllite. 562.0 - 616.0 - Hornblende biotite diorite. 616.0 - 621.0 - Graphitic chlorite phyllite. 621.0 - 641.0 - Hornblende biotite diorite. 641.0 - 654.0 - Graphitic chlorite epidote phyllite.
654.0 - 1,774.0	Upper Member Schist Unit.
	654.0 - 1,347.0 - Chlorite, biotite, muscovite, andalusite schist.
	1,347.0 - 1,603.0 - Interbanded graphitic, calcareous silicate schists and quartzo-feldspathic ribbon banded graphitic schists.
	1,603.0 - 1,774.0 - Carbonaceous biotite, muscovite, andalusite schist.
1,774.0 - 2,126.0	Transition Zone Schists - Biotite, muscovite, andalusite schists.
2,126.0 - 2,417.0	Lower Schist Unit.
	2,126.0 - 2,159.5 - Quartzo-feldspathic biotite, staurolite, garnet, andalusite schist.
	2,159.5 - 2,180.5 - Tactite sequence.
	2,180.5 - 2,417.0 - Quartzo-feldspathic biotite, muscovite, staurolite schist.

Data from the two deep holes 456-75-12 and 75-11, which are located on the Faro claims of Cyprus Anvil Mining Corporation, are presented below so that results of the deep drilling on Pelly River Mines can be evaluated.

Hole 456-75-12, a 2,406 foot vertical hole on geology section 118 on the Faro mineral claims, is at mine grid co-ordinates 8,958.5N, 12,629.2E, at an elevation of 4,244.3 feet. This was the first deep geology test hole drilled in 1975. This hole encountered:

0.0 - 96.0	Overburden and mine dump.
96.0 - 473.0	Calc. silicate phyllite.
473.0 - 1,082.5	Upper Schist Unit.
	473.0 - 965.7 - Carbonaceous biotite, muscovite, andalusite schist.
	965.7 - 1,082.5 - Porphyritic hornblende diorite.
1,082.5 - 1,528.0	Transition Zone Schist Unit - biotite, muscovite, andalusite schist.
1,528.0 - 2,272.0	Lower Schist Unit.
	1,528.0 - 1,924.0 - Quartzo-feldspathic biotite, muscovite, staurolite schist.
	10F 1,924.0 - 1,948.5 - Rhyodacite dike.
	1,948.5 - 2,272.0 - Interbanded muscovite, biotite schist and quartzo-feldspathic biotite, muscovite schist.
2,272.0 - 2,302.0	Interbanded biotite, chlorite schist and muscovite, biotite, chlorite garnet schist. (This is the lowest schist unit encountered to date.)
2,302.0 - 2,406.0	Biotite, hornblende granodiorite to quartz diorite, probably part of dike swarm along "Faro Fault Zone".

Engineering Hole 75-11, a 2,159 foot vertical drill hole, was collared in the upper workings of the Faro pit at mine co-ordinates 8,878.29N, 14,097.03E, at an elevation of 3,998.59 feet on 4,030 bench.

This hole encountered:

0.0 - 12.0 Triconed - calc. silicate.

12.0 - 191.0 Calc. silicate phyllite.

191.0 - 240.5 Graphitic schist.

240.5 - 1,330.0 Upper Schist Unit.

- 240.5 - 345.0 - Muscovite, biotite, andalusite schist.
- 345.0 - 364.0 - Carbonaceous to graphitic biotite, muscovite, andalusite schist.
- 364.0 - 374.5 - Porphyritic hornblende biotite, diorite.
- 374.5 - 469.0 - Biotite, muscovite, andalusite schist.
- 469.0 - 477.0 - Graphitic quartz muscovite schist.
- 477.0 - 568.0 - Sulfide mineralized section.
  - 477.0 - 493.0 - Sulfide bearing graphitic quartz muscovite schist.
  - 493.0 - 498.0 - Sulfide bearing quartzite.
  - 498.0 - 503.5 - Massive pyritic sulfides.
  - 503.5 - 508.0 - Massive pyrrhotitic, pyritic sulfide.
  - 508.0 - 516.0 - Porphyritic hornblende biotite, diorite.
  - 516.0 - 531.0 - Massive pyrrhotitic, pyritic sulfides.
  - 531.0 - 535.0 - Sulfide bearing muscovite quartzite, highly kaolinized and gouged.
  - 535.0 - 538.5 - Massive pyrrhotitic, pyritic sulfides.

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538.5 - 550.5 - Massive pyritic sulfides.
550.5 - 554.25- Massive pyrrhotitic, pyritic sulfides.
554.25- 555.0 - Sulfide bearing quartzite breccia.
555.0 - 559.5 - Pyrrhotitic, pyritic bearing quartzite.
559.5 - 560.5 - Pyritic, ribbon banded graphitic quartzite.
560.5 - 563.0 - Massive pyrrhotitic, pyritic sulfides.
563.0 - 564.5 - Galena and sphalerite-rich, massive sulfides and sulfide bearing quartzite.
564.5 - 568.0 - Massive pyrrhotitic, pyritic sulfide.

568.0 - 1330.0 Biotite, muscovite, andalusite schist.

1,330.0 - 2,159.0 Lower Schist Unit.

1,330.0 - 1,371.0 - Quartz biotite, muscovite schist.

1,371.0 - 1,421.0 - Quartz muscovite, biotite, garnet schist.

1,421.0 - 1,558.0 - Quartz biotite, muscovite schist.

1,558.0 - 1,562.0 - Metabasite.

1,562.0 - 1,899.0 - Sequence of interbanded metabasites and biotite schists.

1,899.0 - 2,039.0 - Biotite diorites to granodiorite.

2,039.0 - 2,109.5 - Brecciated quartzo-feldspathic biotite schists and muscovite schists.

2,109.5 - 2,155.0 - Smoky quartz feldspar porphyry.

2,155.0 - 2,159.0 - Lost hole - core tube stuck.

HOLE ABANDONED

Results from Shallow Drill Holes in Area of Faro Pit

The two shallow holes located between the Bill claims and the Faro orebodies, 456-75-15 and 71 DS 1, in the immediate vicinity of, but not on, the Bill claims, are summarized below.

Hole 456-75-15, an 821 foot vertical hole on the Faro mineral claims, is located at mine co-ordinates 6,790.6N, 14,397.2E, at an elevation of 3,728.8 feet. This hole encountered:

456-75-14

0.0 -	10.0	Overburden.
10.0 -	419.5	Calc. silicate phyllite.
419.5	821.0	Upper Schist Unit.

419.5 - 623.0 - Carbonaceous biotite, muscovite, andalusite schist.

623.0 - 647.0 - Graphitic schist.

647.0 - 710.0 - Biotite, muscovite, andalusite schist.

710.0 - 716.5 - Quartz muscovite pyrite schist (white mica envelope).

716.5 - 767.0 - Sulfide horizon.

767.0 - 773.0 - Quartz muscovite pyrite schist (white mica envelope).

773.0 - 821.0 - Biotite, muscovite, andalusite schist.

The best mineralized section, from 722.5' to 767', averaged 0.10% Cu, 2.92% Pb and 5.03% Zn.

Hole 71 DS 1, a 999 foot vertical dump site drill hole on Faro mineral claim, is located at approximate mine co-ordinates 7,160N, 11,590E. This location was not surveyed and the ground elevation is not known. It is now covered by mine dump. This hole encountered:

0.0 -	13.0	Overburden.
13.0 -	478.5	Calc. silicate phyllite.
478.5 -	999.0	Upper Schist Unit.
		478.5 - 836.5 - Biotite, muscovite, andalusite schist.
		836.5 - 884.5 - Sulfide horizon.
		884.5 - 999.0 - Biotite, muscovite, andalusite schist.

Interpretation of Diamond Drill Hole Data

The drill data on geology cross section 118 present a picture of gently southwesterly dipping rock units without any major rock discontinuities except for possible discontinuities of the graphitic horizon. This graphitic zone (or zones) appears to be discontinuous downdip from the Faro ore horizons because no significant graphitic units were encountered in hole 456-75-12, which was located approximately 1,700 feet downdip from the main Faro ore zones. The bottom of the calc-silicate unit was intercepted at approximately the anticipated depths in drill holes, suggesting no break along this plane.

In detail, minor structures, both folds and faults, are represented in the core. The relationship of these is being evaluated as to their significance to major structures in the district and the significance of these structures to the location of sulfide mineralization, and the search for deep sulfides by "wildcat" type of drilling and stratigraphic tests.

FOLLOW-UP DONE ON NEAR-SURFACE EXPLORATION TARGETS

Three areas, one on the Tie claims and two on the Gale claims, of Pelly River Mines, had geophysical targets from previous surveys which required

follow-up work. In addition to near-surface geophysical targets, a hole, 456-75-9, was drilled to test the downplunge continuation of the Grum horizon on to the Tie claims.

Tie Claims Exploration

The proposed exploration for 1975 on the Tie claims was completed. This work included bulldozer trenching, gravity survey, and diamond drilling of hole 456-75-9, a 1,720 foot vertical hole, drilled for the downplunge, downdip projection of the Grum horizon of Kerr Addison Mines Ltd.

The bulldozer trenching explored for possible near-surface, massive sulfides associated with magnetic anomalies shown on the 1966 Tie magnetometer survey.

Field investigation of areas of the magnetic anomalies showed that several of these were related to mafic rock units. In an area of no outcrop, a 400 foot long trench, cut to bedrock along line 12W from the base line to 400N, exposed phyllites and not greenstones. While magnetic rocks were not exposed in this trench, there are greenstone outcrops located about 400 feet to the northwest of the trench and the interpretation of the contoured magnetic results would strike into this area. Results suggest that the greenstone unit may be present, perhaps at greater depth than the trenching which reached bedrock at depths shallower than 6 feet. The exposed phyllites in this trench contained significant amounts of hematite, which appears to be pseudomorphs after pyrite. Samples from this trench will be taken and analysed for their base metal content.

Because outcrop was not found with all the magnetic anomalies, and trenching

was only partially satisfactory in evaluating the magnetic anomalies, especially in looking for possible deeper geophysical targets below the reasonable ability to trench, a gravity survey was conducted on the Tie grid. The initial interpretation of the gravity survey suggests no large zones of anomalous mass concentrations which could be related to a large, near-surface, massive sulfide deposit.

While the geophysical surveys do not indicate significant anomalies suggestive of near-surface massive sulfide deposits, the Tie claims may contain significant tonnages of deep sulfides of the Grum horizon which appears to project into this area. The anticipated depth of this horizon on the Tie claims, based on downplunge projection of the Grum mineralized horizon, was 1,400' to 1,500'. A drill test for this horizon was carried out. Drill hole 456-75-9, a 1,720 foot vertical hole located on Tie 23 mineral claim and on AEX grid station 1 N 116 W, encountered a 117.7 foot mineralized section of massive and non-massive sulfides from 1,431.3 feet to 1,549 feet, which overall averaged 0.03% Cu, 0.33% Pb and 0.56% Zn. While these are not ore grade, they show that the Grum horizon does extend into the Pelly River Mines claims. Additional drilling will be required to determine the character and extent of this zone under the Tie claims. The detailed log and assays are in Appendix II.

The summary log for hole 456-75-9 shows the nature of the rock units which were penetrated. The assay results of the sampled mineralized section are shown following the rock description.

Hole 456-75-9

Interval - (feet)	Rock Type
0.0 - 21.0	Overburden.
21.0 - 1,390.0	Sericite, chlorite, carbonate phyllite.
1,390.0 - 1,429.0	Sericite, chlorite, carbonate quartz phyllite.
1,429.0 - 1,454.0	Graphitic phyllite - partly mineralized. Mineralized - see assays.
1,454.0 - 1,459.2	Chlorite, sericite schist - not mineralized.
1,459.2 - 1,460.2	Massive sulfides - mainly pyrite and sphalerite.
1,460.2 - 1,462.6	Chlorite, sericite schist.
1,462.6 - 1,463.3	Massive sulfides - mainly pyrite and pyrrhotite.
1,463.3 - 1,464.0	Graphitic phyllite - mineralized.
1,464.0 - 1,465.2	Massive sulfides - mainly pyrite and pyrrhotite, 10% sphalerite (estimated).
1,465.2 - 1,469.0	Chlorite, sericite schist - no mineralization.
1,469.0 - 1,487.0	Quartz sericite, chlorite, phyllite - mineralized.
1,487.0 - 1,549.0	Sericite, chlorite, quartz phyllite - mineralized (less than 1,469 - 1,487').
1,549.0 - 1,624.2	Graphite, phyllite - mineralized (less than 1,487 - 1,549').
1,624.2 - 1,631.5	Chlorite, quartz carbonate phyllite - traces of mineralization.
1,631.5 - 1,720.0	Quartz diorite - Anvil Batholith. T.D. - 1,720'.

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Assay Results

Hole 456-75-9

Interval - (feet)	% Pb	% Zn	% Cu
1,431.3 - 1,433.0	1.90	4.08	.07
1,433.0 - 1,436.4	1.25	1.78	.07
1,438.5 - 1,442.5	.05	.07	.02
1,442.5 - 1,448.1	.14	.10	.02
1,450.1 - 1,453.5	.46	.60	.02
1,459.2 - 1,460.2	3.15	11.10	.34
1,462.6 - 1,463.3	1.50	1.78	.04
1,463.3 - 1,464.0	.35	.60	.03
1,464.0 - 1,465.2	3.08	4.56	.04
1,469.2 - 1,470.0	3.38	5.52	.05
1,470.0 - 1,474.4	1.01	1.02	.08
1,474.4 - 1,478.6	.53	.74	.06
1,478.6 - 1,484.7	.38	.72	.06
1,485.4 - 1,487.2	.43	.50	.07
1,487.7 - 1,493.5	.10	.07	.03
1,529.0 - 1,529.8	1.03	1.66	.03
1,531.0 - 1,537.6	.53	1.14	.03
1,537.6 - 1,540.8	.38	.25	.06
1,540.8 - 1,545.0	.26	.39	.05
1,548.6 - 1,549.0	1.73	5.59	.08

Other work on Tie Claims

During the 1975 operations of underground exploration of the Grum deposit by Canadian Mine Services for Kerr Addison, one of the greenstone outcrops

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on the Tie claims was used as a source of road ballast. One hand specimen found in the quarry contained chalcopyrite and sphalerite along fracture surfaces. Following the discovery of the mineralized fragment, five additional bulk samples were taken for assay to determine the possible extent of this mineralization within the greenstones. The results of the analyses, which were performed at the Anvil Mine Assay Lab, are shown on the following table:

Sample Analyses by Anvil Mine Assay Lab

		Pb	Zn	Cu
	Hand Specimen	0.01%	0.77%	0.15%
#1	Rock Chip	20 ppm	15 ppm	12 ppm
#2	Rock Chip	16 ppm	26 ppm	8 ppm
#3	Rock Chip	19 ppm	24 ppm	8 ppm
#4	Rock Chip	10 ppm	15 ppm	12 ppm
#5	Drill Cuttings	18 ppm	14 ppm	8 ppm

The significance of these assays is that they show erratic high copper and zinc values similar to some soil geochemical results throughout the district where the area is underlain by amphibolites and greenstone.

Gale Claims Exploration

For 1975, a trenching program was proposed to test a coincident gravity Turam anomaly on the Gale-Dy grid. A 250 foot long trench was cut to bedrock from 400S to 650S on Line 8E to cover the peak zone of the gravity anomaly. Only amphibolites were uncovered by the trenching. Also, the overburden thickness increased rapidly from none to more than 10 feet at the north end of the trench. The gravity anomaly occurs on only one

of the lines and may reflect effects of both underlying denser rock type and overburden thinning. The Turam conductor anomaly was not explained by the trenching and therefore must represent an underlying conductor horizon. Work on the Tie claims, and elsewhere in the district, has shown that some graphitic rocks are intimately associated with mafic rocks in the district. However, by far and large, graphitic zones in the district occur in phyllites and schists. The tentative explanation in the case of the Gale claims is that graphitic rocks are present at the greenstone contact, here underlying the trenched area.

Other work related to the Gale claims was on a second zone of Turam conductors which are located to the north, mostly on Cyprus Anvil's adjacent Rich claims. Bulldozer trenching to bedrock in 1974 penetrated through overburden in only one location and exposed a chloritic phyllite, but revealed no direct cause for the conductor anomaly. Diamond drilling had been proposed to test this anomaly in 1975, but it was decided during the field season to cover the area of the Turam anomaly with a gravity survey before spotting any drill sites. The results of this gravity survey show no anomalous mass concentrations associated with the zone of anomalous conductors and the cause of the conductor anomaly is not known.

INDUCED POLARIZATION TEST SURVEY

An induced polarization (IP) test survey was conducted over the Faro orebody with the line of traverse extending considerable distances to the northeast and southwest of the orebody. This line was extended to the southwest to the base station along Line 192+00W of the Gal-Ed grid and extended to the northeast across "Big Indian" Hill to station 225+00N well into the Anvil batholith. The purpose of this survey was to determine if

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rock units could be distinguished at depth. If this were the case, IP would provide a cheaper method for determining the position of graphitic rock units that are associated with the known sulfide deposits and thus aid in the planning of exploration drilling. The line parallel to the line of deep drilling, geology and engineering section 118, was selected for the IP test.

Six-hundred foot electrode and station spacings were used to maximize depths of penetration and to obtain information that generally would be comparable to the data obtained by the drilling. Good correlation was obtained between the IP results and drill results.

The results of the IP test suggest the presence of three separate conductor zones. Two may represent one horizon on two limbs across an anticlinal fold. The Faro deposits are spatially related to the middle conductor. Surface expression of these three conductors is also found on the previous Lockwood (1965) airborne EM survey conducted for Dynasty Explorations. Three separate zones of conductors are outlined by that Lockwood survey with the traces of the EM conductor horizons located in approximately the same zones where the updip projections of the IP conductors would be located. The deep drill holes, in part, substantiate the IP results in that a graphitic schist horizon was intercepted in Hole 456-75-13 in the general area of an IP anomaly at a depth of $1,200' \pm$, and also the lack of conductors in the area of drill hole 456-75-12.

BUDGET

To December 31, 1975, $148,352.50 was charged to the Pelly River Mines Ltd. account for work on its claims in the Anvil District, Yukon Territory, by

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Cyprus Anvil Mining Corporation. A summary of the costs and the distribution to Pelly River Mines partners is shown in Appendix I.

The difference of $47,308 between the anticipated 1975 expenditure of $195,000 and estimated expenditure of $147,691.87 is the result of modifications of programs which consisted primarily of not drilling some proposed and contingent drill holes on the Tie and Gale claims. Also, not all the proposed drill holes were completed downplunge from the Faro orebodies. One of these might have been located on the Lo claims of Pelly River Mines. Their location and their future viability depends on the interpretation of the 1975 exploration results on the adjacent ground held by Cyprus Anvil Mining Corporation.

LAND STATUS

In 1975, no changes occurred in the mineral rights holding of Pelly River Mines Ltd. The cost of most of the physical work on Pelly River Mines was filed for assessment credits. A summary of the claim status is given below and the details for the claims as they are known to date are presented in Appendix III.

Claims	Number	Due Date
Bill claims and related fractions	8	1 July, 1982
" " " " "	1	1 July, 1983
" " " " "	11	1 July, 1985
Joe claims and related fractions	2	1 July, 1980
" " " " "	3	1 July, 1981
" " " " "	2	1 July, 1983
" " " " "	5	1 July, 1984
Lo claims and related fractions	21	1 July, 1982

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Claims	Number	Due Date
Tie claims and related fractions	48	1 July, 1979
" " " " "	1	1 July, 1981
Gale claims and related fractions	66	23 October, 1977
" " " " "	24	1 July, 1977

Respectfully submitted,

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UJ/cb

January 1976

Appendix I

SUMMARY OF COSTS

to December 31, 1975

PELLY RIVER MINES LTD. PROJECT

Salaries and Wages	$ 5,712.66
Line cutting	1,023.50
Geophysics	5,443.75
Drilling	114,241.50
Trenching	1,800.00
Assays	2,250.00
Camp Support	577.50
Miscellaneous Transportation	2,267.00
Property Maintenance	1,550.00
	$134,865.91
Administration - 10%	13,486.59
TOTAL	$148,352.50

Distribution:

Cyprus Anvil Mining Corporation	- 62.86%	$ 93,254.38
Rose Creek - Vangorda Mines	- 28.57%	42,384.31
Cyprus Mines Corporation	- 8.57%	12,713.81
		$148,352.50

APPENDIX II

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH 1+00) AEX GRID	FOOTAGE	AZIMUTH	DIP
EAST 116+00)	600		6.0
ELEVATION	1,000		13
LOGGED BY U. Jansons	1,720		2.5
DATE LOGGED 4 May, 1975			5.0
MAP REFERENCE NO.	METHOD: HF		

2.0

COMPANY NAME PELLY RIVER MINES LTD.
PROPERTY NAME Anvil Claims
DRILLING CONTRACTOR Arctic Diamond Drilling
ASSAYER Whitehorse Assay Office Ltd.
PURPOSE OF HOLE Geological Projection of Grum Horizon

HOLE NO. 456-75-9
CLAIM NAME TIE
COMMENCED 20 April, 1975
FINISHED 3 May, 1975
PROJECT NO. 45700

FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
0	21		Overburden.											
21	1390	97%	Chlorite-sericite, minor quartz carbonate banded phyl-									S2	33'	15°
			lite. Chlorite-sericite 60-70% of rock. Chlorite:									S1	40	90
												S1	87	65
			sercite varies from 3:1 to 1:1. Color light grey to									S2	87	22
												S2	152	10
			greenish gray, depending on chlorite:sericite ratio.									S1	161	90
												S2	220	10
			Quartz to carbonate ratio 1:5 or so through section.									S1	259	90
												S2	257	12-15
			Mineralization: trace amounts (less than 0.1%) sul-									S1+	307	60-90
												S2	307	15
			fides through section. Po:Py approximately 1:1. These									S1	355	75
												S2	355	10
			usually occur as crystals in $CaCO_3$ bands.									S1	402	90
												S2	402	15
												S1	475	70-90
												S2	475	10-15
			Core virtually uniform all the way down in section ex-									S3 ?	475	70-80
												S1	545	to 90
			cept for fractured (breccia) zones as noted below and									S2	545	5-10
												S1	593	to 90
			randomly distributed up to 1.5' $CaCO_3$, SiO_2 zones.									S2	597	10
												S2	655	10
			55 - 56 Soft punky clay zone.									S1	704	90
												S2	704	5
			203 - 204 Soft punky clay zone.									S1	797	to 90
												S2	797	5

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
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Diamond Drill Record

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 456-75-9
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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
			204 - 211 Breccia zone, 1.5' recovery, pro-											
			bably washed out clay zone.									S1	846	to 90
												S2	846	0-5°
			276 - 277 Brecciated phyllite $CaCO_3$ cemented.									S1	902	90
												S2	902	5
			314½- 315 Brecciated phyllite $CaCO_3$ cemented.									S1	966	to 90
												S2	966	10
			581½- 582 Soft clayey "punky" zone.									S1	1012	90
												S2	1012	2-3
			585 - 588 Soft clayey "punky" zone.									S1	1057	to 90
												S2	1057	10
			787 - 789 Soft clayey fault zone.									S1	1112	to 90
												S2	1112	7
			1155 -1157 Soft clayey fault zone.									S1	1127	90
												S2	1127	5
			1170 -1171½ Soft clayey fault zone.									S1	1184	90
												S2	1184	7-10
			Section 1152-1176 poorly cohesive with several clay									S1	1247½	90
												S2	1247½	7
			and fragmented core zones.									S2	1249½	22
												S1	1259	90
			1250 -1251½ Phyllite breccia - $CaCO_3$ cemented									S2	1259	10
												S1	1303	90
			S_2 vertical at 1251, 22° at 1249½.									S2	1303	10
												S1	1355½	90
			1388 -1390 Calc. carbonate zone with chlorite									S2	1355½	8
												S1	1388	90
			showing incipient alteration to									S2	1388	9-12
			brown mica (biotite?) or brown											

COLLAR:	HOLE SURVEY		
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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
			chlorite?). Incipient chlorite (?)											
			mica bleaching.											
1390	1422	99%	1390-1422 - Gradational increase in SiO_2 banding.									S1	1412	90
			Quartz content increasing slightly with depth.									S2	1412	15
			1416-1422 - Brecciated appearance due to boudinaging											
			and fragmentation of $CaCO_3$ layers and cross cutting											
			foliations.											
1422	1429	99%	Chlorite quartz carbonate phyllite - chlorite green									S2	1427	22
			color (change in chlorite and quartz content).											
			Mineralization: As previous section.											

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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
1429	1549	101%	SULFIDE MINERALIZED SECTION - GRUM ZONE EXTENSION		Split	Core								
			1429 - 1454 - 95% Recovery.	1,431.3	1,433.0	1.7	19599	1.90	4.08	.07		S2	1444	35°
			Graphitic sericite - quartz phyllite. N.B. - no	1,433.0	1,436.4	3.4	19600	1.25	1.78	.07				
			carbonate.	1,438.5	1,442.0	3.5	19601	.05	.07	.02				
			Mineralization: Total sulfides average approximately	1,442.5	1,448.1	5.6	19602	.14	.10	.02				
			5% - 7% for section. Sphalerite and pyrite parallel	1,450.1	1,453.5	3.4	19603	.46	.60	.02				
			to rock compositional banding is parallel to S2.											
			Core is slightly brecciated and SiO_2 cemented											
			except section 1437-1440. Soft clayey section											
			1448-1450, fine grained gray quartzite (?).											
			1454 - 1459.5 - 96% Recovery.	1,459.25	1,460.25	1.0	19604	3.15	11.10	.34		S2	1455	30°
			Green and white banded chlorite sericite schist.											
			Gneissic texture 60% sericite, 40% chlorite.											
			No mineralization.											

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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
			1459.5 - 1460.5 - 100% Recovery.											
			Quartz and massive sulfide appear to be infilling											
			in fractures. 35% total sulfide - pyrite and											
			sphalerite, fine grained typical buckshot appear-											
			ance of Anvil Range massive sulfides with pyrite											
			grains averaging 1/16" diameter.											
			1460.5 - 1462.5 - 96% Recovery.											
			Green and white banded rock as 1454-1459.5.											
			1462.5 - 1463.2 - 100% Recovery.	1,462.5	1,463.3	0.8	19605	1.50	1.78	.04				
			Massive sulfides. This section mainly pyrrhotite											
			and pyrite.											
			1463.2 - 1464 - 96% Recovery.											
			Graphitic phyllite approx. 5-7%, total sulfide as 1429-1454.	1,463.3	1,464.0	0.7	19606	.35	.60	.03				

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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
			1464 - 1465.1 - 100(?)% Recovery.	1,464.0	1,465.15	1.15	19607	3.08	4.56	.04				
			Massive sulphides - mainly pyrrhotite and pyrite.											
			10% sphalerite.											
			1465.1 - 1469.0 - 112% Recovery.											
			Chlorite sericite quartz "schist" - green and white											
			banded rock. 5% bleached. No mineralization.											
			1469.0 - 1487.0 - 97% Recovery.	1,469.2	1,470.0	0.8	19608	3.38	5.52	.05		S2	1,472	20°
			Quartz sericite chlorite phyllite, 60 - 70% quartz,	1,470.0	1,474.4	4.4	19609	1.01	1.02	.08				
			sericite:chlorite = 3:1.	1,474.4	1,478.6	4.2	19610	0.53	0.74	.06				
			Mineralization: 5-7% total sulfides, of which 60%	1,478.6	1,484.7	6.1	19611	0.38	0.72	.06				
			is pyrite, 30% is pyrrhotite, 6-7% sphalerite,	1,485.5	1,487.2	1.7	19612	0.43	0.50	.07				
			3-4% galena(?).											

COLLAR:	HOLE SURVEY		
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FROM	TO	REC.	DESCRIPTION	SAMPLE From	SAMPLE To	SAMPLE Width	SAMPLE No.	ASSAYS Pb	ASSAYS Zn	ASSAYS Cu	STRUCTURE Struct.	STRUCTURE Loc.	STRUCTURE Value
			1487.0 - 1,549.0 - 104.5% Recovery.	1,487.7	1,493.5	5.8	19613	0.10	0.07	.03	S2	1537	10°
			Sericite chlorite quartz phyllite, 60% micas;	1,529.0	1,529.8	0.8	19614	1.03	1.66	.03	S2	1547	20
			Sericite:chlorite ratio is 1.5:1; rock has medium-			SPLIT CORE							
			gray color.	1,531.0	1,537.65	6.65	19615	0.53	1.14	.03			
			Bleached sericite sections at 1530-1531, 1538-1545.5	1,537.65	1,540.85	3.2	19616	0.38	0.25	.06			
			Rock has tan color when wet.	1,540.8	1,545.0	5.2	19617	0.26	0.39	.05			
			Mineralization: Total sulfides for section, 3-5%	1,548.6	1,549.0	0.4	19618	1.73	5.59	.08			
			pyrite and sphalerite with short sections 10-15%										
			sulfides at 1529-1530, 1531-1537.5 (approx. 15%),										
			1542-1546 (approx. 10%).										
1,549	1,583	95%	Graphitic sericite(?) quartz phyllite; generally brec-								S1	1581	90
			ciated appearance due to the boudinaging and breaking								S2	1581	10
			of quartzite bands.										
			1555-1557 - bleached clavey zone.										
			1564-1565 - clayey graphitic zones.										

COLLAR:	HOLE SURVEY		
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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
			1564.0-1565 - clayey graphitic zone.											
			1565.0-1569 - clayey graphitic zone.											
			1578.5-1583 - carbonate cemented brecciated graphitic											
			phyllite.											
			Mineralization: Total 3%, pyrite 95%, trace pyrrhotite,											
			sphalerite 3-4%, 1549-1549.5. Mineralization parallels											
			rock comp bands.											
1,583	1,624.2	83%	Graphitic sericite minor quartz phyllite. 70-80%									S1	1605	30°
			micas and graphites, rest quartz.									S2	1605	30°
			Mineralization:1-3% total sulfides, mainly (95%)									S2	1624	35°
			pyrite. Mineralization parallels rock comp bands.											
1,624.2	1,631.5	102%	Chlorite quartz carbonate phyllite; grain size slightly									S2	1629	20°
			larger than previous phyllite except for brecciated											
			graphitic phyllite. $CaCo_3$ is probably from oxidized graphite.											

COLLAR:	HOLE SURVEY		
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FROM	TO	REC.	DESCRIPTION	SAMPLE				ASSAYS				STRUCTURE		
				From	To	Width	No.	Pb	Zn	Cu		Struct	Loc.	Value
			Mineralization: 1% total, all pyrrhotite in two ½"											
			and a ¼" band parallel to chlorite bands.											
1,631.5	1,720	86%	Quartz diorite, fine grained 2-5 mm to quartz biotite											
			diorite.											
			Top 2" brecciated. Contact sharp.											
			Rock bleached - altered 1631-1645.											
			Possible xenolith - reconstituted xenoliths 1634-1635.											
			Mineralization - none.											
			T.D. 1,720											
			Recovery: Total core: 1,635.6 feet recovered.											
			Drilled: 1699											
			Percent recovery: 96%											

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COLLAR:	HOLE SURVEY		
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COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE NQ to 711', BQ to 2692'

HOLE NO. 456-75-13
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS					
0	29.5		Overburden									0-21' ?	1.5'
29.5	80.5		Calc-silicate phyllite; med. brownish gray, thinly bedded, highly calcareous calc-silicate phyllite w/ alternating gray calcite-calcite >> diop and brownish gray bio. phyllite bands 0.1" to 3.0" in thickness; interval very $CaCO_3$ rich not as apparent as top of 456-75-12; incomplete D_2 transposition of D_1 fabric w/ pervasive F_2 hinges; interval non-magnetic, non-pyritic; S_2 = 80° to c.a. @ 50°; numerous D_2 boudinage structures in bio. phyll. as commonly seen in this unit; S_2 = 70° to c.a. @ 60° where F_2 is 20° to line of S_2 strike plunging NW; gouge zone 70.25-71.5 @ 70° to c.a.									21-34.5	1.75'
												34.5-39	2.5'
												39-41	3.75'
												41-47.5	6.0'
												47.5-54.75	10.5'
												54.75-61.75	7.0'
												61.75-64.75	3.0'
												64.75-72	3.5'
												72-78.5	6.5'
80.5	82.25		Quartz-calcite healed fault breccia; part D_2 brecciation of calc-silicate phyllite unit w/ gouge zone (2") @ 45° to c.a. @ 81'									78.5-82.5	3.75'
												82.5-88	5.5'
82.25	114		Calc-silicate phyllite; as 29.5-80.5; S_2 = 65° to c.a. @ 102' where $L_2 = F_2$ = 65° to line of S_2 strike plunging SE; entire calc-silicate phyllite map unit to this point (29.5-114) is $CaCO_3$ rich & is c.f. calcareous phyllite bands in 456-75-12									88-89.5	1.5'
												89.5-99.5	10'
												99.5-106	6'
												106.5-117	10.5'
114	140		Calc silicate phyllite; typical H.-med. yellow brown gray-grn-CO₃ rich & parallel brown bio phyllite bands interlayered on a 0.2-2.0" scale; diagnostic lithology for calc-silicate map unit; unit 20-80% cpx bearing bands w/ minor $CaCO_3$ rich (marble) inter-bands; S_2 = to c.a. @ 137'; L_2(?) ⊥ to line of S_2 strike, plunging SE									117-121.5	7.25
												121.5-130.5	8.0'
												130.5-135.5	5'
												135.5-139.5	3.5'
												139.5-142	2.5'
												142-152	10'

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COLLAR	HOLE SURVEY		
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Interval	Recovery
140	142.5		Crackle breccia in carbonaceous calc-silicate phyllite; med. dk gray green, thinly banded, slightly carbonaceous calc-silicate phyllite w/ several crackle bxia zones @ 45° to c.a. thru interval; bxiation post-D_2 image w/ diorite(?) glass as probable matrix for bxia frags of all sizes; all frags of calc-silicate phyllite									132-140.5	8.5'
142.5	161		Calc-silicate phyllite; as 114-140; S_2 = 80° to c.a. @ 150' w/ L_2 = F_2 @ 60° to lin of S_2 strike plunging 45									140.5-151	10.5'
161	177		Calc-silicate phyllite; med-dk blue green chlor-clinozoisite(?) calc-silicate bands (60-70%) and purplish brown bio phyll. bands (30-40%) w/ minor $CaCO_3$ rich bands									151-160.5	8.9'
												160.5-170.5	10'
												170.5-178	7'
												178-187.5	9.5'
												187.5-197.5	10'
												197.5-207.5	10'
												207.5-212	4.5'
												212-214.5	2.5'
												214.5-223.5	9'
												223.5-232.5	9'
177	204		Calc-silicate phyllite; as 29.5-80.5; S_2 = 70° to c.a. @ 181.5' where L_2 = F_2 = 50° to lin of S_2 strike plunging SE									232.5-241.5	9'
												241.5-251.5	10'
204	208		Calc-silicate phyllite; as 161-177									251.5-262	10.5'
208	229.5		Calc-silicate phyllite; as 29.5-80.5, 177-204; calcareous phyllite member of calc-silicate mapunit; S_2 = 80° to c.a. @ 219' where F_2=L_2 = 40° to lin of S_2 strike plunging SW									262-272	10'
												272-282.5	10'
												282.5-293.5	10'
229.5	235		Calc-silicate phyllite; as 161-177, 204-208									293.5-302	9.5'
235	272		Calc-silicate phyllite; as 29.5-80.5, 177-204, 208-229.5; calcareous phyllite member of calc-silicate mapunit; S_2 = 80° to c.a. @ 250' where L_2=F_2 = lin of S_2 strike; S_2 = 85° to c.a @ 268 where L_2=F_2 = 30° to lin of S_2 strike and plunges SW									302-311	9
												311-316	5
												316-326	10
												326-336	10

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PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Footage of	Recovery
272	328		Graphitic calc-silicate phyllite; dk gry to black, thinly bedded, variably graphitic calcareous phyllite member of calc-silicate map unit; essentially no calc-silicate minerals in this interval; S_2 = 80° to c.a. @ 300.5 where $L_2 = F_2$ = 35° to line of S_2 strike and plunge 65; from 311 to 328 unit becomes less graphitic with up to 20% calc-silicate bands									326-342.5	16.5'
												342.5-352.5	10'
												352.5-355.5	3'
												355.5-365.5	10'
												365.5-371	1.9'
												371-381.5	10.2'
328	331		Calc-silicate phyllite; as 161-177, 204-208, 229.5-235; interval approx 60% blue green calc-silicate and 40% bio phyll bands									381.7-387	5'
												387-397	10'
331	399		Calc-silicate phyllite; as 29.5-80.5, 177-204, 208-229.5, 235-272; calcareous phyllite member of calc-silicate map unit; S_2 = 70° to c.a. @ 333 where $L_2 = F_2$ = 20° to line of S_2 strike and plunge SE; numerous 2-6" gray-white finely chloritic marble bands through interval; S_2 = 75° to c.a. @ 358' where $L_2 = F_2$ = 10° to line of S_2 strike and plunge 45									397-407.75	3.75'
												407.75-416.5	9.0'
												416.5-417.5	1.1'
												417.5-427.7	10.2'
399	402		Fault gouge in calc-silicate phyllite; 3' zone of clay with fault gouge @ about 70° to c.a.; could be major Dy thrust									427.7-437.9	10.2'
												437.9-448.1	10.2'
402	444		Calc-silicate phyllite; as 331-399; calcareous phyllite member of calc-silicate phyllite map unit; S_2 = 70° to c.a. @ 408' where $L_2 = F_2$ = 0° or 11 to line of S_2 strike; 3" gouge zone @ 50° to c.a. 415.35-415.5'; 1-3" gouge zone @ ± 60° to c.a. @ 437.5'; 2" gouge zone @ 70° to c.a @ 438'25									448.1-458.3	10.2'
												458.3-464.3	6'
												464.3-474.3	10'
												474.3-477.3	3'
414	446.5		Calc-silicate phyllite; as 161-177, 204-208, 229.5-235, 328-331; approx 70% blue green chloritic bearing assemblage, 30% bio phyll assemblage									477.6-487.6	10'
												487.6-497.8	10.2'

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	Interval	Recovy
446.5	452		Calc-silicate phyllite; as 331-399, 402-444; calcareous phyllite member of calc-silicate map unit; S_2 = 85° to c.a. @ 450 where $L_2 = F_2$ = 0°(a11) to line of S_2 strike						446.5-500.5	10'
									504.5-514.75	10.2'
									514.75-527	10.1'
452	471		Calc-silicate phyllite; as 444-446.5; blue green clinoamphibole-chlor bearing calc-silicate assemblage w/ approx 50% calc-silicate bands, 50% bio. phyll. bands						527-537	10'
									537-547	10'
									547-553	6'
471	483.25		Carbonaceous calc-silicate phyllite; as 331-399, 402-444, 446.5-452 except interval slightly carbonaceous; interval is variably carbonaceous calcareous phyllite member of calc-silicate map unit; D_2 transposition of D_1 fabric more complete thru this interval than any in 395-483.25; S_2 = 90° to c.a. @ 476'						553-557	4
									557-567	10'
									567-577	10'
									577-587.5	10.2'
									587.5-597.5	10'
483.25	484.5		Calc-silicate phyllite; as 444-446.5, 452-471						597.5-608	10'
484.5	489.5		Calc-silicate phyllite; as 331-399, 402-444, 446.5-452						608-618	10.2'
489.5	501		Calc-silicate phyllite; as 444-446.5, 452-471, 483.25-484.5; approx 90% blue green clinoamph bearing calc-silicate bands, 10% bio phyll.; S_2 = 65° to c.a. @ 498.5 where $F_2 = L_2$ = 0°(a11) to line of S_2 strike; note varying attitude of L_2/F_2 in S_2 plane implies curvilinear F_2 folding						618-628.5	10.2'
									628.5-638	10.1'
									638-648	10'
									648-658.5	10'
501	505.25		Calc-silicate phyllite; as 331-399, 402-444, 446.5-452, 484.5-489.5						658.5-668.5	10'
505.25	516		Calc-silicate phyllite; as 489.5-501; approx 80-90% blue green clinoamphibole bearing assemblage; these mafic units may represent metavolcanic flows/tuffs w/in calc-silicate sequence						668.75-678.75	10'
									678.75-688.75	10.2'
									688-698	10'

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516	534		Calc-silicate phyllite; as 501-505.25; calcareous phyllite member of calc-silicate map unit; S_2 = 70° to c.a. @ 518.75' where $L_2 = F_2$ = 0° (on 11) to line of S_2 stake									700 716	16'
												716-727	11'
												727-736	9'
534	539		Calc-silicate phyllite; approx 50% blue green chrysotile bearing calc-silicate bands, 25% off-white to marble bands and 25% med-dk brown bio. phyll. bands; 1" qtz-calcite fetid, post D_2 crackle bxia @ 45° to c.a. @ 536.75'									733-749	16'
												749-757	8'
												757-759.75	2.75'
												759.75-774	14'
689	575.5		Calc-silicate phyllite; as 501-505.25, 516-534; calcareous phyllite member of calc-silicate map unit; approx 60% med-dk brown thinly banded, slightly carbonaceous bio. phyll. bands and 40% 0.1-0.5" off-white calcareous or marble bands showing pervasive F_2 development; S_2 = 75° to c.a. @ 557 where F_2 = 10° to line of S_2 stake and plunges 05									774-789	15'
												789-799	10'
												799-809	10'
												809.5-819.7	10.2'
												819.7-829.5	9.8'
575.5	578		Calc-silicate phyllite; as 505.25-516, 534-539; essentially 100% chrysotile bearing metatuff to phyllonite									829.5-839.6	10.1'
										3"		839.6-842.25	2.75'
578	583		Calc-silicate phyllite; as 501-505.25, 516-534, 539-575.5; calcareous phyllite member of calc-silicate map unit; S_2 = 80° to c.a. @ 580' where $F_2 = L_2$ = 0° (on 11) to line of S_2 stake									842.25-852.3	10.1'
												852.3-862.3	10'
												862.3-867.25	4.95'
583	601		Calc-silicate phyllite; sequence of interbanded blue-green, chrysotile bearing metatuff to assemblage and brown biotite phyllite assemblage; interval 80% metatuff, 20% bio. phyllite;									867-877	9.5'
												877-887	10'
												887-897	10'

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			metatasite or amphibolite bands ⟹ significant metaclastic component to calc-silicate phyllite map unit.									882-885.5	8.5'
												885.5-895.5	10'
601	614		Calc-silicate phyllite; as 601-605.25, 516-534, 539-575.5, 578-583; calcareous phyllite member of calc-silicate map unit; interval very thinly banded w/ nearly complete D_2 transposition of D_1 fabric; S_2 = 80° to c.a. @ 610.5 where $F_2 = L_2$ = 20° to line of S_2 strike and plunge W									895.5-906	10.25'
												906-916	10
												916-926.5	10
												926.5-936.5	10
												936.5-947	10
614	616		Calc-silicate phyllite; as 583-601; massive blue-green metatasite									947-957	10
616	640.5		Calc-silicate phyllite; as 601-614; calcareous phyllite member of calc-silicate map unit; approx 5-10% metatasite bands, 10-20% off-white thin marble bands and 70-85% reddish brown biotite phyllite bands									957-967	9.75
												967-977	10
												977-986.5	9
640.5	644		Calc-silicate phyllite; as 583-601, 614-616; metatasite, massive blue-green									986.5-988.5	1.9'
644	653.5		Calc-silicate phyllite; as 616-640.5; S_2 = 75° to c.a. @ 650' where $L_2 = F_2$ = 0° (on H) to line of S_2 strike									988.5-997	8.5'
												997-1007	10
653.5	657		Calc-silicate phyllite; as 583-601, 614-616, 640.5-644; blue-green weakly banded metatasite									1007-1009.75	2.75'
												1012.5-1022.5	10'
657	659		Calc-silicate phyllite; as 616-640.5, 644-653.5; calcareous phyllite									1022.5-1032.5	10'
659	661		Calc-silicate phyllite; metatasite band as 583-601, 614-616, 640.5-644									1032.5-1042.5	9'
661	664.5		Calc-silicate phyllite; as 616-640.5, 644-653.5, 657-659									1042.5-1052.5	10.1'
664.5	749		Calc-silicate phyllite; interbanded blue-green metatasite and brownish biotite phyllite; banding on a scale of 0.5" to 3.0'; most of $CaCO_3$ rich marble bands have disappeared; interval similar to									1052.5-1062.5	10.2'
												1062.5-1072.5	10.1'
												1072.5-1082.5	10.1'

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			bottom 100' of calc-silicate map unit; S_1 = 85° to c.a. @ 685'; meta-									1093-1103	10'
			basite bands account for ≈ 70% of this interval overlying subtidal									1103-1113	10'
			meta-basic component to calc-silicate map unit; D_2 transposition									1113-1123	10'
			of D_1 fabric nearly complete over this interval; S_2 = 70° to c.a @ 733									1123-1133	10'
			3" gouge and brx'd zone @ 50° to c.a. @ 749									1133-1143	10'
749	768		Metatarsite; med dk green to blue green, weakly banded to									1143-1153	10'
			massive metatarsite or amphibolite; no relict D_1 fabric; S_2 =									1153-1163	10'
			75° to c.a. @ 764'									1163-1173	10'
768	787.5		Calc-silicate phyllite; as 681.5 - 749; interbanded dk green - blue									1173-1183	10.2'
			green metatarsite and reddish brown bio. phyll.; approx 70-80%									1183-1186	3'
			metatarsite bands 20-30% bio. phyll.; complete D_2 transposition									1186-1196	10'
			of D_1 fabric; S_2 = 50° to c.a @ 784.5'; 1" gouge @ 90° to ca @ 773.5									1196-1206	10'
787.5	856		Calc-silicate phyllite; interbanded sequence of variably carbonaceous									1206-1216	10'
			lt. to med. green, metatarsite, reddish brown bio. phyllite, lt.									1216-1226	10'
			yellowish green epidote-clinozoisite metatarsite and minor graphitic									1226-1236	10'
			phyllite; sequence thinly banded (0.1" - 2.0") w/ a blue banded									1236-1246	10'
			appearance in places; D_2 transposition of D_1 fabric complete;									1246-1256	9.8'
			this interval identical to that @ base of calc-silicate unit in									1256-1266	10.2'
			456-75-12; 9" bull qtz pod 793-793.75 w/ amoeboid pods of py blebs									1266-1276	10.2'
			and stringers (5% sulfides); stringers ≡ to similar occurrences									1276-1286	10'
			in 1974 E. Swan Lake area; S_2 = 70° to c.a. @ 800'; foliaform (S_2)										

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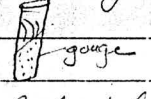
FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			blebs and anastomosing bands of po>>py form 1-5% total sulfide 832-852'; no base metal sulfides seen; entire 20' interval ferromagnetic w/ greatest sulfide concentrations in carbonaceous bands; entire interval should be analyzed for Cu, Pb, Zn; S_2 = 70° to ca. @ 852'									1316-1320	4'	
													1310-1320	10'	
													1300-1310.5	10.2'	
													1310.5-1321	10.7'	
													1321-1326	5	
856	930		Carbonaceous bio-musc-andalusite schist; as 543-547 or 456-75-12; med gray, thinly to laminarly bandad bio ≈ musc schist w/ dk gray andalusite porphyroblasts; complete D_2 transposition of D_1 fabric w/ essentially 220 schist F_2 hinges; degree of andalusite development ≪ that in 456-75-12 & zone 220' excessively aluminous; numerous, foliaform post-D_2 gray white bull qtz pods; interval shows patchy and sporadic development of po>>py bait sulfides w/ minor passive bloge as 832-852; 6" zone of gouge and broken core 892.5-893; S_2 = 80° to ca @ 877.5; S_2 = 80° to ca @ 900'; 3" gouge @ 90° to ca. @ 927'; S_2 = 85° to ca @ 936'; interval becoming slightly mafic 920-930									1320-1324	1.3'	?
													1324-1327	3.5	
													1327-1332.5	5.25	
													1332.5-1338	5'	
													1338-1343	4'	
													1343-1347	8'	
													1347-1355	5'	
													1355-1360.5	5.5'	
													1360.5-1366	8	
													1366-1374	6	
													1374-1380.5	4	
930	962		Hyalotrite; med dk. green, weakly and thinly bandad sequence of probable mafic tuffs on top of massive flow; massive andesitic meta-trachyte flow (?) 946-962; bandad tuffs (?) 930-946; S_2 = 80° to ca. @ 957'; F_2 = 70° to bis of S_2 [illegible] @ 960.5', plunges 85°									1380-1384	4	
													1384-1391	10	
													1391-1396.5	1.5'	
													1396.5-1404	9'	
													1404-1408	4.75	
962	971		Graphitic qtz-musc. schist; dk. gray-black, thinly bandad, moderately										1408-1413	5	

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			graphitic schist c.f. that above Faro deposit; 1' gouge @ 40° to c.a 970-971'										1'
971	974		Qtz-musc± chlor schist; beige, thinly banded, very siliceous schist similar to white mica overlaye lithology but much more siliceous; could be meta^ic acidic tuff; no sulfides noted; D_2 transposition of D_1 fabric complete; unit folded form										5'
974	987		Graphitic qtz-musc schist; as 962-971; c.f. graphitic schist above Faro deposit										10'
			S_2 = 0° to c.a. from 485.5 - 486.5, this probably part D_2 fold along sole of thrust fault as gouge and blocky core 986-987; strong gouge @ 987' @ 40° to c.a. 										10'
987	994		Brecciated qtz-musc± chlor schist; heavily brecciated S.O.$_2$ healed unit of identical lithology to 971-974; gouge zones at top & bottom of interval; gouge @ 987 = 40° to c.a.; gouge @ 994 = 25° to c.a.										3.9'
994	1054		Graphitic qtz-musc schist; med-dk. grey to black, laminated to thinly banded, heavily S_2 foliated, siliceous, variably graphitic schists; all graphitic qtz-musc schists to other depth not true graphitic schists as seen in parts of pit but definitely similar to some graphitic zones above Faro deposit; S_2 = 50° to c.a @ 994.5'; S_2 = 75° to c.a. @ 1012.5 where F_2 = 0° (all) to line of S_2 strike; interval shows some variably										1.5'
													10'
													10'
													1'
													10.2'
													10'
													10.2'
													16'
													9.0'

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			pyritic zones but total sulfides << 1%, interval non-magnetic w/ only occasional po blebs; 4" qtz healed bxia 997.5'; unit could be described as ribbon banded qtz-graphitic schists; unit is graphitic qtz-musc-andalusite schist 1022-1042; three zones in this interval where S_2 ⊥ to c.a., 1031.5-1035, 1040-1042, 1015.5-1054; these intervals bounded by gouge & fg bxia suggesting intervals w/ ⊥ S_2 = fault rotated blocks or thrust faults thru post-D_2 folds; all bxia and gouge zones @ ≈ 40° to c.a.									
1054	1106.5		interbanded sequence of chlo-chiast-musc schists, metatuff to brock and bio-musc-and. schists; thinly banded sequence of med grey with brown to grey schists of above types ⇒ some volcanic material in start. Interpret host to Fan deposit; D_2 transposition of D_1 fabric nearly complete; S_2 = 75° to c.a. @ 456'; S_2 = 85° to c.a. @ 1077' where F_2 = 11 to bxia of S_2 strike; S_2 = 80° to c.a. @ 1104'									
1106.5	1318.5		Bio-musc-andalusite schist; med-dk grey, rocky parting to blastic, bio ≈ musc, pelitic schist identical to interval 549-1333 in 1156-75-17; typical aluminous upper portion of Fan pelitic schist unit; host unit to Fan deposit; D_2 transposition of D_1 fabric nearly complete S_2 = 80° to c.a. @ 1153'; from 1137.5-1164 po ≦ 1% of pbsw assemblage as folia from blebs & dissemination; no base metals associated w/ po; some mesh py where po > py and py+po ≦ 1%; 3" po zones									

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		•	@ 1208'; S_2 = 70° to c.a. @ 1207'; S_2 = 80° to c.a. 1223.5 where F_2 = 80° to line of S_2 strike and plunges E15°; S_2 = 85° to c.a @ 1255'; S_2 = 80° to c.a @ 1290'; 4" gouge zone @ 80° to c.a. 1277.25-1277.5; 1' gouge 1253'-1254' @ 70° to c.a											
1318.5	1327		Graphitic qtz-musc-schist; as 994-1054; interval non-magnetic and variably pyritic; 6" section 1-3% py 1326-1326.5'; S_2 = 50° to c.a @ 1326'; D_2 transposition of D_1 fabric nearly complete											
1327	1328		Qtz porphyry dike/sill; lt. gray, aphanitic, variably porphyritic, mod. fractured and qtz healed, post-D_2 sub-foliaform but discordant granitic qtz porphyry w/ << 1% py					0	556	CS				
								556	1374	BMW	M	top contact		
								1374	1515	MQS	C	NE?		
1328	1357.75		Graphitic qtz-musc schist; as 994-1054, 1318.5-1327; interval non-magnetic and variably pyritic w/ 3-1" zones of 25% py (1345', 1349, 1352); post-D_2 (F_4?) fold hinge 1341-1345 as S_2 sub-lt to c.a. over this interval, cannot determine closure direction due to broken and blocky core over this interval; S_2 = 75° to c.a. @ 1350'; 2" gouge 70° to c.a. @ 1351.5					1515	1588	BMW	M	top meta-tuff		
								1588	1798	BMW	T	intrusive		
								1798		QFP	C	F		
1357.75	1364		Bio-musc-andalusite schist; as 1106.5-1318.5											
1364	1373.75		Porphyritic bio-diorite; med. brownish gray, porphyritic (plag, bio), massive, post-D_2 diorite (?) sill/dike showing slightly discordant contact relations; contact 70° to c.a. @ 1364, core @ 1373.75 = 50°											
1373.75	1389		Musc-bio-andalusite schist; lt. med. gray, weakly porphyroblastic, heavily foliated, musc > bio schist; darker than above with more bio											

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1389	1390.25		Leucocratic Post D₂ Dyke ; lt pinkish grey massive, unfoliated post D₂ sill or dyke with <1% fine py; contact 65° to c.a. @ each end of interval									1354-1361	10
												1361-1371	10
1390.25	1407		Qtz-Musc-And-Schist ; lt grey-beige, heavily foliated schist with no biotite, thinly to laminably, quite very similar to Faro White Mica Envelope. Six inch zone of angular finely stringy massive py fragments 1400.5-1401									1374-1384.5	10
			S_2 = 70° to c.a. @ 1400'. Complete transposition of D_1 fabric into D_2									1384.5-1394.5	10
1407	1410		Carbonaceous Qtz-Musc Schist ; as 1390.25-1407 less andalusite, interval well foliated, thinly laminated.									1394.5-1404.5	7
												1404.5-1414.5	10
1410	1415		Qtz-Musc-And-Schist ; as 1390.25-1407',									1414.5-1424.5	10
1415	1416		Carbonaceous Qtz-Musc Schist ; one foot interval c.f. 1407-1410, with 1/2" massive py band @ 1415.2'									1424.5-1434.5	10
			No base metal sulfides									1434.5-1444.5	10
1416	1436.5		Qtz-Musc-And-Schist as 1390.25-1407', gouge zone 1420-1423, gouge @ 80° to c.a. @ 1420 & 20° to c.a. @									1444.5-1454.5	10
			1423'. One ind. zone py blebs @ 1423.5. Total py 10%. Gouge zone 1427-1428 @ 30° to c.a. @ 1427' & 1428'									1454.5-1461.5	7.0'
			Interval becoming slightly carbonaceous towards base.									1461.5-1468.5	7.0
1436.5	1446.5		Heavily Gouged, Partially Brecciated Graphitic Qtz-Musc Schist ; interval variably graphitic and by numerous									1468.5-1478.5	10'
			gouge zones and white bull qtz veins. Main gouge zone 1436.5-1439.5. Gouge 70° to c.a. @ both ends.									1478.5-1488.5	10'
			One foot gouge zone 1441-1442 @ 60° to c.a. One foot gouge 1443-1444 @ 70° to c.a.									1488.5-1498.5	10'
1446.5	1515		Qtz-Musc-Andal-Schist ; as 1390.25-1407, andalusite approx 5%. Numerous disrupted and f-									1498.5-1508.5	10'
			ded bands representing relict F_2 hinges. Nearly complete to D_2 transposition of D_1 fab n: S_2 = 90° to c.a. @ 1451'									1508.5-1518.5	10'
			4" qtz-pink andal pod @ 1475'. Minor py < 1% over interval. Interval 1511-1515 has pervasive F_2 fl to									1518.5-1528.5	10'
			fmin. of S_2 Σ @ 1491'. S_2 = 70° to c.a. @ 1490'. Gouge and breccia zone @ 1501-1503. Zone @ 65° to c.a.									1528.5-1538.5	10'
1515			Interval of biotite and blebby pyrite 1515-1520. Sl. [illegible]									1538.5-1548.5	10'

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COLLAR:
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HOLE SURVEY		
FOOTAGE	AZIMUTH	DIP
METHOD:		

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS				Footage	Recovery	
1515	1588		Bio-Musc-Gtz±And±Staur Schist; altered a grad lt brown to beige, thinly banded, variably foliated											
			bio>musc schist. Internal becoming more siliceous w/ depth S₁ ~88° to c.a. @ 1550', Some staurolite and									1541-1551	10'	
			andalusite towards end of interval											
												1551-1560	9.0'	
1588	1623		Bio-musc ± staur ± andalusite schist; med. gray brown, thinly banded, rarely									1580-1588.5	8.5	
			porphyroblastic, bio ± musc pelitic schist; equivalent to transition									1588.5-1598.5	10'	
			zone 1333-1528' in 456-75-12; essentially complete D_2 transposition									1598.5-2005.5	7	
			of D_1 fabric; S_2 = 90° to c.a. @ 1600'; minor disp. in scattered 0.5" bands									2015.5-2023.25	0.75	
1623	1632.5		Interbanded metabasites and bio. schists; med. gray green, thinly									1625-2035	10	
			banded metabasites and dk br. bio schists; 6"-2" thick meta-									2035-2045	10'	
			basite bands w/ 1"-6" bio schists									2036.5-2047	10'	
1632.5	1716		Bio-musc-andalusite schist; as 1588-1623 w/ no visible staur;									2049-2059	10'	
			S_2 = 80° to c.a. @ 1694' where S symmetry F_2 axis ∥ line of S_2									2059-2069	10'	
			strikes; S_2 = 85° to c.a @ 1650'; M symmetry F_2 @ 1686' ± 1701; in									2069-2076.5	3.1'	
			general, nearly complete D_2 transposition of D_1 fabric; S_2 = 80° to c.a @ 1700'									2076.5-2084	3.5	
1716	1716.25		Metabasite; med. gr. green, weakly banded bk-gray metabasite									2041-2076.5	4.5'	
1716.25	1798		Bio-musc-andalusite-staur ± gar schist; med gray brown, thinly									2076.5-2084	3.5'	
			banded, rarely porphyroblastic, sometimes qtz-feldspathic									2064-2064.5	10	
			bio ± musc pelitic schist w/ rare br. staur ± dk. blue gray and. porphs.,									2064.5-2105	10	
			internal & finite transitional zone as 1333-1528 in 456-75-12;									2105-2115	10	
			major break in andalusite content @ 1798 above and. < 1%; S symmetry									2115-2124.5	9.5	
			F_2 folds @ 1728.5, 1739, 1763, 1786, 1791.5 i.e. entire interval shows S symmetry									2124.5-2133.5	8.5	

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			S_2 = 70° to c.a @ 1850' and 1797'										
1798	1980		Quartz-feldspathic bio-musc-staur ±gar schist; med gray brown, thinly banded, incompletely D_2 transposed, non-and/sil to and bio-musc schist; pervasive hornfels/gneissosity; equiv to 1528-2302 in 4156-75-12; S symmetry F_2 folds @ 1801, 1819, 1820.5, 1850, 1853.5'; S_2 = 80° to c.a @ 1801 w/axial S symmetry F_2 axis 11 to lin S_2 strike; S_2 = 70° to c.a. @ 1850; S_2 = 75 to c.a @ 1900; S_2 = 90° to c.a @ 1950'; S_2 = 70° to c.a @ 1980'; S symmetry F_2 folds @ 1875.5', 1883', 1900-1902', 1914, 1931.5', 1953.5', 1979' i.c. S symmetry thru interval 1798-1980; essentially no po over entire interval as checked by hand magnet traverse										
1980	1981		Metabasite; as 1712-1716.25										
1981	1983		Bio-musc-andalusite schist; med gray brown, early porphyroblastic, thinly banded, completely transposed bio-musc-and schist w/ approx 20% andalusite, pervasive.										
1983	1985		Interbanded metabasite and bio schist; as 1623-1627.5; 80% metabas to										
1985	2027.5		Bio-andalusite-staur schist; non-gtyp. foliation, thinly banded, dk brown, early porphyroblastic bio-musc-gt schist w/ ± 5% andalusite; S symmetry F_2 folds @ 1994'; 2027.5' S_2 = 85° to c.a @ 2000'; 2" band 1-5% chalcopyrite @ 1993.6'										
2027.5	2031.5		Graphitic bio-musc schist; black locally anastatic, laminated										

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			banded schist; no po over interval; 3" band 1-3% dissem py @ 2028'											
2031.5	2052		Carbonaceous bio-musc-qz-dolomite schist; c.f. 1885-2031.5; mod dk. brown, laminarly banded, easily foliation-parallel, weakly to moderately carbonaceous bio-musc-qz schist; not similar to upper aluminous member or gtz-feldspathic member of schist map unit; may be correlative to underlying metavolcanic gneiss; S_2=85° to c.a @ 2050'; nearly complete D_2 transposition of D_1 foliation w/ no definitive F_2 hinges											
2052	2123.75		Interbanded metatuffites and bio-musc schists; c.f. 1673-1632.5; mod green, weakly banded, well foliated, homogeneous bio-plag metatuffite (≈70%) interbanded w/ finely mottled, thinly banded bio-qz-musc schists; this interval appears to mark top of brown mafic (metavolcanic) member of schist map unit; S_2 = 50° to c.a @ 2115'; note nearly complete D_2 transposition w/ some pre-D_2 folding & post-D_2 kinge 2064-2067 (i.e. S_2 ⊥ c.a); S_2 ⊥ c.a. 2074-2083 then post-D_2 kinge											
2123.75	2151		Bio-musc-qtz schist; blotchy, dk. brown and beige, completely transposed pelitic schist w/ bio-qtz schist blebs in qtz-musc schist; typical lithology for qtz-feldspathic member of schist map unit; S_2 = 75° to c.a @ 2151											
2151	2168		Qtz-musc schist; completely D_2 transposed, beige, laminarly banded											

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			qtz-musc schist of white mica envelope w/ essentially no bio & py					
2168	2175.5		Musc-bio-andalusite schist; med. brown-gray, thinly banded, calc. garnet-plastic musc > bio pelitic schist of upper aluminous member of schist unit (≈5% andalusite); completely D_2 transposed					
2175.5	2176.5		metabasite; med-dk blue green, thinly banded hb-plag. metabasite					
2176.5	2214		Bio-musc-gar schist; mod. gray, non calcareous, thinly banded bio ± musc gar. schist; proportions of musc & bio very variable; S symmetry F_2 folds @ 2202'; S_2 = 70° to c.a. @ 2200'; nearly complete D_2 transposition of D. Fabric					
2214	2240.5		Garnet-clinopyroxene tactite; mod green and pink, thinly banded calcareous andradite-gyp tactite ± Lscat; non-magnetic 1-5% diss. MoS_2 (?) as specularite Fe_2O_3 & 1% black diss. ZnS over interval; S symmetry F_2 folds @ 2222.5'; entire interval should be sampled and assayed for W, Cu, Pb, Zn, Mo (?)					
2240.5	2251		Carbonaceous, weakly silicified marble; lt-to dk. gray, variably carbonaceous, thinly banded, completely transposed, locally xlline calcitic marble w/ minor devel of calc-silicates S_2 = 70° to c.a. @ 2214.8'; 1' bxia w/ CaCO₃ cement 2244-2245'					
2251	2254		Garnet-gyp tactite; as 2214-2240.5 except w/ marble and bio. schist interbands					
2254	2255		Carbonaceous silicated marble; as 2240.5-2251					

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2255	2256		Gar-cpx tactite; as 2214-2240.5, 2251-2254					
2256	2262		Bio-musc schist; dk brown, completely D, transposed, finely banded bio ± musc schist ± typical bio rich schist assoc. w/ melilolites in lower member of schist unit; little or no calcsilicate					
2262	2288		musc-bio-stlaur ± gar schist; blotchy, dk brown bio-stlaur gar schist in beige qtz-musc schist; sub-equal amts bio-rich musc-qtz schist; 2" gauge zone @ 60° to c.a @ 2274.5'; S symmetry Fz folds @ 2278' when S_2 = 80° to c.a. and Fz = 0° (or 11°) to line of S_2 strike; 2" gauge zone @ 70° to c.a. @ 2279.5'; bull qtz 2283-2285'					
2288	2361		Bio-musc-and alusite-stlaur schist; med. gray brown, thinly banded rocky porphyroblastic bio-musc, pelitic schists; lowest to transition zone 1333-1528' in 456-75-12; nearly complete D transposition of D fabric w/ no good Fz examples for symmetry determination; 2288-2295 fair S symmetry Fz @ 2296'; S symmetry Fz folds @ 2300.5'-2301; FANTASTIC S symmetry Fz folds 2303-2310; S_2 = 75° to c.a @ 2302'; S_2 = 80° to c.a. @ 2317'; symmetry: 2325.5-M, 2327.5-S, 2331-S, 2346-S, 2351-M, 2355-S					
2361	2632		Quartz-feldspathic bio-musc-gar-stlaur schist & bio-musc-stlaur-and alusite med brown, thinly banded, finely to med porphyroblastic pelitic schists as in middle member of schist unit in 456-7 D; unit shows pronounced compositional banding and discontinuous					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			excellent preservation of F_2 hinges; symmetry: 2361-2363 poss S_2, 2363.5-Z, 2365-S, 2365-2378 poss S_2, 2378.5-2382-M, 2387.5-S, 2384-					
3" po			2386-M, 2386.5-S, 2387-2392 poss S_2, 2392-S, 2392.5-S, 2398-2400					
			poss S_2, 2401.5-S, 2402.5-S, 2404.5-S, 2406-2406.5 LL, 2411-S,					
0.1" op			2413-S, 2413.5-S, 2417.5-2419-S, 2419-2423 poss S_2, 2423-S, 2423.5-S,					
Bull g			2426.5-S, 2429-2432-M, 2434.5-S, 2435-S, 2437-S, 2439-2441 poss S_2;					
			2444.5-S, 2447-2449-M, 2450-S, 2449.5-2451-M, 2451.5-S, 2452.5-M, 2453-S					
			2455-S, 2456-S, 2458-S, 2459-S, 2463-M, 2463.5-S, 2465-S, 2466-M, 2466.5-S,					
			2467-M, 2468-M, 2470.5-Z, 2472-S, 2473-S, 2478-S, 2480-S, 2481-S, 2487-S					
			2491.5-M, 2494-2496-S, 2496-M, 2496.5-2497.5-Z, 2497.5-2501-M, 2502-2503-S					
			2506-M, 2508-S, 2512-S, 2512-2520.5 poss S_2, 2521-S, 2522-2529 poss S_2,					
			2527.5-S, 2528-S, 2531-2533-M, 2533-2539.5 poss S_2, 2539.5-M, 2541.5-2542.5-S,					
			2544-S, 2547-S, 2548-S, 2548.5-2549.5-M, 2550.5-S, 2551-S, 2551.5-2552.5-M,					
			2553-2562 poss S_2, 2563-S, 2565-S, 2565.5-2569.5 poss S_2, 2570-M,					
			2572.5-S, 2576-M, 2582-S, 2593.5-S, 2594-2598-M, 2598-2599-S, 2600-M					
			2602-S, 2604-2606-S, 2609-2609-M, 2609-2619-S, 2622-2624-S; not perpendic.					
			of S symmetry over interval; S_2 = 70° to c.a. @ 2400', S_2 = 80° to c.a. @ 2446'					
			S_2 = 75° to c.a. @ 2503', S_2 = 75° to c.a. @ 2550', S_2 = 80° to c.a. @ 2603'; S_2 = 80°					
			to c.a. @ 2631.5'; 3" band w/ 10-15% pl. 2388.5' showing M symmetry					
			F_2 hinge; 0.1" op stringers @ 40° to c.a. (SE) @ 2395; moderate white					
			bull qtz pod 2585-2591.5'					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
0	1		Overburden					
1	98		Calcareous bio-chlor-(musc?) phyllite; dk gray brown, laminated, banded, calcareous, slightly carbonaceous bio-chlor phyllite (musc may be present) w/ thin, aft wisps gtz-CO_3 folia; flow showing boudinage & F_2 folds; S_2 = 75° to c.a. @ 50'; S_2 = 75° to ca @ 98'					
98	423		Calc-silicate phyllites; family homogeneous sequence of calc-silicate w/ 40% blue green to med green chlorangph-bearing calc-silicate bands, 40% reddish brown to gray brown bio-phyll. bands and 20% gtz-calcite marble laminae; internal non-graphitic, highly calcareous w/ v. complex internal geometry; contact w/ overlying phyllite map unit conformable w/ S_2 and defined as last appearance of calc-silicate assemblages; phyllite map unit different from calc-silicate in that calc-silicate assemblages not developed and phyllite bands dk gray brown ⇒ more carbonaceous material; if calc-silicate assemblages develop "subvertically" at pelite/CO_3 interface during meta^m, would expect to see calc-silicates in lower part of phyllite unit; S_2 = 80° @ 150', 80° @ 203', 80° @ 250', 80° @ 300', 60° @ 350', 80° @ 400'					
423	452		Calc-silicate phyllite; 60% thinly banded, yellow brown ep-chlorangph. calc-silicate bands, 40% reddish brown bio. phyll bands and white to buff qtz rods foliation ∥ S_2; internal					

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			non-calcareous w/ absence of marble laminae; S_2 = 60° to c.a. @ 481.5'					
452	482		Calc-silicate phyllite; as 95-433 except 60% medium brown bio. phyll & 25-30% ep-clinozoisite calc-silicate bands and 10-15% marble laminae					
482	501.5		Calc-silicate phyllite; weakly calcareous interval 85% gray green chlor-clinozoisite calc-silicate assemblage generally thinly banded w/ numerous intervals of bio-phyll blebbies (15%) w/ diffuse margins grading into gray green chlor-bearing assemblage ⟹ bio-phyll breakdown to chlor.; many hairline fractures show post-D_2 shrd. of chlor.; probably a retrograde reaction of D_2 bio ⇌ chlor; S_2 = 50° to c.a. @ 501'					
501.5	543		Carbonaceous chlor phyllite; dk. gray green to greenish black, laminarly banded, weakly to moderately calcareous, rarely carbonaceous chlor-phyll (= clinozoisite??) in calc-silicate mass unit; possible mafic tuff protolith; post-D_2 fold hinges 533 to 538 w/ SW closure assuming SW S_2 dip, no megascopic axial planar foliation; S_2 = 70° @ 533, 50° @ 534, 0° @ 535					
543	545		Hb-bio diorite; med. brown to med. gray green quickly chilled diorite w/ acicular hb, minor bio and much plagioclase @ quench; contact foliation @ 70° to c.a. @ 543' ⟹ sill					
545	549		Hb-bio diorite breccia and gouge zone; xtalline, randomly oriented finely xllsic diorite frags (dk. green) in lt green gouge matrix (calc-sil.)					

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			possibly sill extended along fault zone and is ?related during fault movement or dioritic intruded into "wet" fracture causing auto hydration					
549	553.5		Calc. siliceous phyllite; calcareous phyllite member of map unit; 80-90% reddish brown, weakly calcareous bio phyllite ± 10% diffuse to calcitic marble folia; $S_2 = 75^\circ$ to c.a. @ 550'					
553.5	557		Interbanded graphitic phyllite and ep-clinozoisite calc-silicate bands; banded black & med gray, non calcareous graphitic phyllite (60%) w/ 0.25 - 6.0" med. yellowish green, weakly calcareous ep-clinozoisite-bearing flaggy calc-silicate bands; thin tuffaceous? top of base of calc-silicate mapunit					
557	558		Hb-bio diorite sill; med. gray green, massive diorite w/ plag only on liquidus; contacts 80° to c.a. dipping S65					
558	562		Graphitic phyllite w/ calc-silicate interbands; as 553.5-557					
562	616		Hb-bio diorite; med. gray green massive diorite w/ hb-plag-bio on liquidus; suggestion of preferred planar orientation defining flow (?) foliation @ ± 60° to c.a.; contact @ 60° S65 to c.a. @ 616					
616	621		Graphitic siliceous phyllite; as 501.5-543; $S_2 = 15^\circ$ to c.a. @ 620					
621	631		Hb-bio diorite; as 562-616; irreg. intrusive contacts 80° to c.a. @ 621; 60° to c.a. [illegible]					

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641	654		Graphitic chlor-ep-(clinozoisite?) phyllite; as 501.5-543, 616-621 w/ many irreg. felsic fsm qtz pods/veinlets; intervals represents base of cale-silicate map unit; S_2 = 65° to c.a. @ 650											
654	796		Carbonaceous bio-musc ± andalusite schist; med gray-to med dk. gray, laminarly to thinly banded, variably carbonaceous to weakly graphitic, very weakly porphyroblastic (andalusite < 1%) bio ± musc schist; interval identical to upper portion of schist unit except appears less aluminous; S_2 = 70° @ 70', 60° @ 753'											
796	954		Carbonaceous bio-musc-andalusite schist; as 654-796 w/ 1-7% dk. blue gray andalusite porphyroblasts; typical aluminous upper member of schist map unit; S_2 = 85° @ 800', 75° @ 850', 80° @ 905', ± 70° @ 953'											
954	978		Bio-musc-andalusite schist; med-reddish brown, laminarly banded, coarsely porphyroblastic bio ± musc pelitic schist ± interval is aluminous as evidenced by ± 5% andalusite porphyro, but biotite is reddish brown, andalusites are "chiastolitic" and numerous thin chlorite schist (clinozoisite??) bands occur over interval making it dissimilar from typical aluminous upper member; possible intrusive or post Dr. chlor. dyke											
978	987		Musc-andalusite-chlor schist; beige to lt tan, finely porphyroblastic, laminarly banded, pervasively S_2 foliated pelitic schist											

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			w/ partially chloritized (?) and/or biotite ± essentially no bio.; some bio in gradational 1' contact zone 975-979'; entire unit same color as white mica "envelope" lithology but more aluminous, less pyritic — most probable					
987	975		Metabasite / clinozoisite-bearing calc-silicate band; dk. green, non-thinly banded (0.1"-2.0"), clinozoisite-bearing mafic unit of unknown origin; could be metavolc. or "metasomatic" amphibolite	calc.				
975	1003		Bio-musc-andalusite schist; as 954-978; $S_2 = 85°$ to c.a. @ 1000'.					
1003	1016		Clinozoisite-bearing calc-silicate band / metasomatic metabasite; dk. green, weakly calcareous, thinly banded (0.1"-12.0") metabasite of probable "metasomatic" origin or possibly a pelitic-CO_2 mixture; unit should not have a basaltic composition					
1016	1066.5		Carbonaceous bio-musc-andalusite schist; med. to dk. gray, laminated, weakly carbonaceous, early porphyroblastic bio-musc pelitic schist; same lithology as upper aluminous member of schist unit; bio. may be slightly reddish brown; $S_2 = 90°$ to c.a. @ 1050'					
1066.5	1082		Interbanded sequence of bio-musc-andalusite schist and metabasite; transitional zone. Lithology schist and non-calcareous thinly banded clinozoisite-gp-bearing metabasite of possible metavolc origin					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
1082	1112		Bio-musc-andalusite schist; as 954-978, 995-1003. Transition zone schists; S_2 = 75° to ca. @ 1102					
1112	1120		Metabasite; mod. gray green, laminarly banded, heavily foliated and veined, non-calcareous, compositionally homogeneous metabasite of poss. metavolc. origin					
1120	1121.5		Musc-chlo + bio andalusite schist; as 978-987					
1121.5	1133		Calc-silicate band / metasomatic metabasite; as 1003-1016; comp. heterogeneous w/ prominent reddish br. bio jointed bands & minor $CaCO_3$ rich bands					
1133	1165		Bio-musc-andalusite schist; as 954-978, 995-1003, 1082-1112; transition zone schists (≈5% and.); S_2 = 75° @ 1150					
1165	1172		Musc-chlo-andalusite schist; med. gray green, laminarly banded weakly porphyroblastic musc chlor-and. schist					
1172	1183		Bio-musc-andalusite schist; as 951-978, 995-1003, 1082-1112, 1133-1165 transition zone w/ reddish br. bio & chloritized andalusite					
1183	1186		Calc-silicate band / "metasomatic" metabasite; as 1121.5-1133					
1186	1193		Bio-musc-andalusite schist; as upper weakly heterogeneous aluminous member					
1193	1195.5		Metabasite and green chlor-andalusite (?) schist; med. dk. green, banded, compositionally heterogeneous, non-calc. metabasite of unknown origin.					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
1198.5	1203		Graphitic bio-musc-andalusite schist; med-dk gray to black, thinly bedded, heavily qtz-carb-bio veined, weakly alumino and porphyroblastic graphitic pelitic schist; S_2 @ 70° to c.a. S_3 = 45° to c.a. @ 1199					
1203	1210		Fractured and gouged graphitic bio-musc-and. schist; as 1198.5-1203 w/ qtz-$CaCO_3$ fracture fillings, graphitic schist gouge and broken blocky core over interval; 6" qtz-$CaCO_3$ foliaform fracture filling @ 70° to c.a. @ 1203-1203.5; graph. schist gouge zone @ 70° SW to c.a. 1205-1207; fracture filling, broken core all related to fault zone 1205-1207		1205-1207			poss. intersection of quartz vein and fault zone
1210	1239.5		Carbonaceous musc-bio-andalusite schist; dk. gray, weakly anhome oroby porphyroblastic, alumineous, musc > bio pelitic schist; S_2 pervasive over interval; equiv. to upper Al member; 1220-1227 gouge, rubbly core (3' recovery)	VLS				
1239.5	1244.5		Fractured and gouged graphitic schist; heavily schistosed, brecciated and gouged graph. schist w/ qtz filled haselise fracture stockwork; minor gouge zone 1241.5-1243 @ 65° to c.a. top & bottom dipping SW					
1244.5	1275		Weakly carbonaceous musc-bio-andalusite schist; as 1210-1239.5; equiv to upper Al member of schist unit; S_2 = 60° to c.a. @ 1260'; pervasive S_2					
1275	1294.5		Graphitic musc-bio-andalusite schist; as 1210-1239.5, 1244.5-1275 except graphitic; minor qtz vein stockwork 1275-1279; pervasive S_2; gouge @ 70° SW to c.a. 1287-1289.5					
1294.5	1332		Carbonaceous musc-bio-andalusite schist; as 1210-1239.5, 1244.5-1275; musc > bio to musc = bio; pervasive S_2; typical upper Al member					

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			of schist unit; S_1 = 90 to c.a. @ 1300'; 3/4" gouge X cutting S_2 @ 60° to c.a. @ 1305.5'					
1332	1347		Calc-silicate band / "metasomatic" metabasite; as 1003-1016, 1121.5-1133, 1183-1156; compositionally heterogeneous w/ bio.-phyll. graph. schist and minor marble bands plus thin calcareous laminae in thinly banded, weakly foliated chlor-clinoamph-cp. assemblage; should sample 4 above calc-silicate/metabasite bands for bulk comp & petrog; probable sedimentary protolith					
1347	1365		Quartz-feldspathic ribbon banded graphitic schist; dk. gray to black, thinly to laminarly banded, non-calcareous graph. schist similar to ribbon banded graph. gtzite only not as siliceous & non sulfide bearing; dissimilar to ribbon banded graph. gtzite in that this internal grades downward into calcareous graph. schists; much internal structure i.e. incomplete D2 transposition of D1 fabric S_2 = 80 to c.a. @ 1350; also this unit not identical to graphitic schists 994-1054 in 456-75-13 in that this interval more qtzo feldspathic, more finely laminated					
1365	1462		Graphitic calc silicate schist; strongly banded dk. gray to black graphitic schists and lt. green to greenish brown to med. green calcareous calc-silicate assemblages; unit is variably carbonaceous/graphitic and compositionally heterogeneous					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			surface being a uniform grey-fine schist; uncomplete D_2 [illegible] position of D_1 folds; unit not = to any seen in 156-75-13; most similar to some graphitic units in calc-silicate phyllite map unit; S_2 = 65° to c.a @ 1100'; S_2 = 80° to c.a @ 1150'; pervasive pp zz py w/ total < 1% 1373-1376'					
1462	1475.5		Calc-silicate band / "metamorphic" metatuff; as 1003-1016, 1124.5-1133, 1153-1156, 1332-1347; comp. subarkose-greywacke; thinly & strongly banded, calc-arenites (strongly) mod. dk green chlor-clinozoisite-epi-CO$_3$ band; pervasive S_2					
1475.5	1505.9		Granulitic calc-silicate schist; as 1365-1462; pervasive S_2 overprinted					
1505.9	1510.5		Qtz-feldspathic rubbly banded graphitic schist as 1347-1365; rpt repetition of units either side of graph calc-silicate schist at this point; S_2 = 65° to c.a @ 1500'; pervasive S_2 overprint					
1510.5	1533.2		Calc-silicate band / "metamorphic" metatuff; as 1462-1475.5 only less homogeneous w/ many siliceous & reddish brown bio. phyllitic schist bands					
1533.2	1562		Qtz-feldspathic rubbly banded graphitic schist; as 1347-1365, 1485.9-1510.5; qtz-sericite (???) schist 1527.5-1529.25, foliation, unknown protolith, mineralogy uncertain, thin unit downhole assoc. w/ calc-silicate bands; qtz-sericite (???) schist 1530.5-1531.75 as above; graphitic zone in strongly graph. schist 1531.75-1533.5, contact 70° SU @ 1531.75, contact 50° SU @ 1533.5, brecciated & fragmental qtz veins					

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			in gouge, movement post-D_2; pervasive S_2 thru entire interval $S_2 = 85°$ to c.a. @ 1560					
1562	1579		Calc-silicate band of "metasomatic" metabasite w/ white mica (??) envelope; beige, pervasively S_2 foliated, non-calcareous, non-mag., non-sulfidic bearing gtz-sericite (???) schist (1562-1565, 1569.5-1579) envelopes dk green calcareous calc-silicate (metabasite) (1565-1569.5); envelopping lithology appears as a symmetamorphic (D_1 transposed physically, not by reorientation into S_2 plane or sepi-D_2) alteration of the calc-silicate band; could be sepimetamorphic alteration envelope around a mafic sill/dike but "metabasite" too calcareous (?) for an intrusive igneous rock; envelope of metabasite should be sampled & studied petrographically					
1579	1603		Quartzo-feldspathic, ribbon banded graphitic schist; as 1347-1365, 1485.9-1510.5, 1523.2-1562; gtz-sericite (???) schist bands entered @ 1598 (1'), 1602 (4"); pervasive S_2; $S_2 = 75°$ to c.a. @ 1602'		Note: 1347-1603 is one unit of QFGS and QGS			
1603	1650.5		Carbonaceous bio-musc-andalusite schist; med. brown gray, variably carbonaceous, finely to laminarly banded, early pre-thrust kinkie alumerous, bio-musc, pelitic schist (2-5% andalusite); typical upper A1 member of schist unit; generally pervasive S_2; $S_1 = 85°$ to c.a. @ 1649'					
1650.5	1663		Graphitic calc-silicate schist; as 1365-1462., 1475.5-1485.9; w/ local moderately to highly calcareous w/ lt. green calc-silicate bands; pervasive S_2					

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1603	1774		Carbonaceous bio-musc andalusite schist; as 1603-1650.5; typical Kitsumkalum upper member of schist unit; S_2=90 ± ca @ 1700' S_2=50° to c.a. @ 1750.5; gouge zone 1742.5-1750.5 w/ contact 70°S45 @ 1742.5, 50°S45 @ 1750.5					
1774	1915		Bio-musc-andalusite schist; med. gray brown, thinly to laminarly banded, coarsely porphyroblastic, bio ≥ musc pelitic schist; transition zone lithology w/ reddish brown bio, slightly less andalusite (1-2%) S_2 = 60° @ 1800', 75° @ 1850', 80°-85° @ 1900'; 4" gouge zone @ 70°S45 to c.a. @ 1870'; pervasive S_2					
1915	1916		Calc silicate band / "metasomatic" metakaustic; as preceding exposure strongly compositionally banded, weakly calcareous, pervasive S_2					
1916	1918		Bio-musc-andalusite schist; as 1774-1915					
1918	1920.5		Calc silicate band / "metasomatic" metakaustic; as 1915-1916 and preceding examples; strongly comp. banded, weakly calcareous; pervasive S_2					
1920.5	1930		Carbonaceous bio-musc-andalusite schist; as 1603-1650.5, 1663-1774 typical Kit upper member; pervasive S_2					
1930	1935		Calc silicate band / "metasomatic" metakaustic; as 1915-1916, 1918-1920.5					
1935	1947.5		Carbonaceous bio-musc-andalusite schist; as 1603-1650.5, 1663-1774 1920.5-1930; Kit-rock upper member; incomplete D_2 transposition of D_1 fabric					
1947.5	1955		Amphibolite bio-musc schist; strongly banded, non-calc rock					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			alternating ~~ft~~ felsic gray beige ~~yld~~ mod brown bio-musc bands on a generally S_2 foliated schist; strong banding nearly gneissic					
1945.5	1951		Calc-silicate band ("metasomatic" metatuff); compositionally homogeneous, weakly calcareous to moderately calcareous, dk. yellowish green, poss. S_2 foliated metatuff (of probable "metasomatic" or sedimentary origin (should not have a basaltic chemistry!)); S_2 = 70° to ca @ 1950'					
1951	1955.25		Banded felsic/mafic bio-musc schist; as 1912.5-1915.5'; poss S_2					
1955.25	1994		Bio-musc-andalusite schist; med gray to med. gray brown, laminated/banded, non-calcareous, coarsely porphyroblastic bio>musc & musc>bio pelitic schist; transition zone lithology; approx 5% andalusite; nearly complete D_2 transposition of D_1 fabric					
1994	2024		Calc-silicate band ("metasomatic" metatuff); c.f. 1945.5-1951 except compositionally heterogeneous, weakly & patchily calcareous, gradational upper & lower foliation contacts; pervasive S_2; S_2 = 75° to ca. @ 2000'					
2024	2052		Bio-musc-andalusite schist; as 1955.25-1994, excellent transition zone lithology of reddish br. bio, 1-2% coarse blue gray andalusite; incomplete D_2 transposition of D_1 fabric; S_2 = 75° to ca. @ 2050'					
2052	2053.5		Calc-silicate schist ("metasomatic" metatuff); thinly banded, strongly heterogeneous med. blue green calc-silicate bands alternating w/ reddish br. bio schist lamenae c.f. calc-silicate phyllite; gradational					

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			upper & lower contact, non-calcareous, poor S_2					
2053.5	2056		Bio-musc-andalusite schist; ao 2024-2052					
2056	2058.5		Calc-silicate schist/"metasomatic" metatactite; ao 2052-2053.5					
2058.5	2126		Bio-musc-andalusite schist w/ minor interbedded metatactites; transition zone v.v.ably aluminous schists ao 2024-2052 with v.v.ably calcareous dk.green calc-silicate schists/"metatactites" 2063-2064.5 & 2096-2098 S_2 = 60° to c.a @ 2100'					
2126	2157.5		Musc-bio-staur-gar ± andalusite schist; med. brown to brn., laminarly banded, pervasively S_2 foliated, coarsely porphyroblastic musc > bio schists w/ prominent (0.05-0.2") rusty brown staur. porphs, occasional reddish br. porphyroblastic garnets and "feathery" andalusite "ghosts"; S_2 = 70° to c.a. @ 2150'					
2159.5	2180.5		Interbedded siliceous-musc tactites and "metasomatic" metatactite; off white to dk.green, coarsely banded, med. to finely ± alternating tactite-marker sequence; only minor andalusite-cpx tactite developed; pervasive S_2					
2180.5	2393		Quartzo feldspathic bio-musc-staur schist; med. brown, thinly banded to gneissose, non-porphyroblastic schist identical to qtz-feldspathic marker 1528-2302' in 1/65-75-12; unconformable D_2 truncation of D_1 folds; S_2 = 80° @ 2200', 70° @ 2250', 70° @ 2300', 85° @ 2350'					

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2393	2395.75		Calc-silicate (marble) "metasomatic" metatexite; dk green/brown non-calc. thinly banded, commonly S_2 foliation parallel metatexites of uncertain origin but entirely similar to metatexites of metasomatic or sedimentary origin elsewhere in hole.					
2395.75	2417		Quartzo-feldspathic bio-musc. staur. schist; as 2180.5-2393;					
	EOH		2 Cont 3% rosin Gr. staur; incomplete D_3 transposition of D_2 fabric; $S_2 = 80°$ to c.a. @ 2400'					

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NORTH	7607.80 N			
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ELEVATION	3,958.67 (Arvic)			
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	RECOVERY INTERVAL	RECOVERY	INTERVAL	RECOVERY
0	96		Overburden						76 - 97	1.0'	264-272.5	8.0'
96	166.5	OP	Calc-Sil-Phyllite or Calc Phyllite ; variably calcareous, thinly banded, lt. grey to beige, zone of blocky or						97 - 98	1.0'	272.5-276	3.5'
			broken core @ 96'-99'. Unit becomes increasingly biotitic towards base with banding varying between thin and						98 - 108.5	10.5'		
			laminar. 6" zone @164' of pyritic (<1%), diopside-post D_2 veinlet of qtz & calcite. Variably carbonaceous;						108.5 - 117	9.0'		
			S_2 = 75°-80° to c.a. @100' ; S_2 = 75° to c.a. @ 150'						117 - 120	2.5'		
166.5	191.5	MB	Calc-Sil-Phyllite ; blue-grey chlor-clino-amph assemblage bands interleaved with purplish-brown-bio-bands,						120 - 124	4.0'		
			non-calc, minor (<<1%) zones of po & py near qtz. veinlets, thinly to laminarly banded						124 - 134	10.0'		
191.5	203.5	MB	Calc-Sil-Phyllite ; of xlline, blue-gray-green chlor-clino-amph, massive to weakly banded, variably calcareous,						134 - 144	10.0'		
			minor py and po (<<1%) in qtz-CO_3 post D_2 cross-cutting fractures ; S_2 = 75° to c.a. @ 200'						144 - 154	10.0'		
203.5	234.5	CP	Calc-Sil-Phyllite ; strongly calcareous, becomes similar to 96'-166.5' after a short gradational unit of						154 - 164.5	10.5'		
			laminarly to moderately interbanded calcite rich layers & chlor-clino-amph bands. Biotite increases while chlor-						164.5 - 175	10.5'		
			clino-amph decreases to shortly disappear downhole. Zone of crumbly and blocky core @ 205'-209'.						175 - 185	10.0'		
234.5	242.5	CP	Calc-Sil-Phyllite ; interbanded purplish-brown-bio, blue-gray-chlor-clino-amph & scattered off-white calc-bands						185 - 190	10.0'		
			This unit sees the re-introduction of the chlor-clino-amph-bands and the reduction to only a few widely scattered calcareous						190 - 200	10.0'		
			bands. From 234.5'-237' : Zone of blocky core and calcite/qtz veinlets. Thinly Banded.						200 - 207.5	7.5'		
242.5	250	CP	Calc-Sil-Phyll ; as 203.5 - 234.5, Unit characterized by the reduction of chlor-clino-amph assemblage bands						207.5 - 215	7.5'		
			and a slump increase in calcareous bands, S_2 = 85° to c.a. @ 250'						215 - 225	10'		
250	276	MB	Calc-Sil-Phyllite ; thinly to laminarly banded alternating sequence of blue gray chlor-clino amph, dk brown to						225 - 235	9.75'		
			purplish-brown-bio and widely scattered calcareous bands. 1' zone of strongly calcareous phyllite c.f. 203.5'-234.5' @ 260'.						235 - 246	10.75'		
			Breccia zones @ 263' ; dk green matrix (ep-chlor-clino amph) and @ 274', a 2" post D_2 band with a lt. green matrix and polymictic						246 - 253.5	7.5'		
			clasts. Unit becomes perceptively more calcareous towards base.						253.5 - 264	10.5'		

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	RECOVERY Interval	RECOVERY Recovery	RECOVERY Interval	RECOVERY Recovery
276	292		Calc-Sil-Phyll; as 234.5-242.5, variably carbonaceous with a fair no of hairline calc-stringers. Majority of unit						276-280.5	4.5'	452.5-462.5	10.0'
			is an alternating sequence of blue-gray chlor-clino-amph bands & purplish-brown bio-phyllite. Unit exhibits bull						280.5-284	3.5'	462.5-472	8.5'
			qtz. veinlets (<< 1% py associated) and epidote filled hairline fractures. Biotite bands decrease towards						284-299	12'	472-481.5	8.0'
			base of unit in an irregular manner.						299-308.5	9.25'	481.5-492	10.25'
292	415.5		Calc-Sil-Phyllite and Bio Phyllite Interbanded; reddish brown bio-phyllite comprises between 20%-30%						308.5-313	4.25	492-502.5	10.5
			of total unit while the blue-green-gray chlor-clino-amph makes up the remaining portion of the unit. The						313-317	2.5		
			bio bands are spaced randomly throughout in varying thicknesses. Minor epidote development particularly						317-323.5	3.4		
			within fracture zones suggesting a secondary origin, variably calcareous; S_2 = 75° to c.a. @ 300', S_2 = 80° to c.a.						323.5-334	10		
			@ 350'; S_2 = 80° to c.a. @ 400'						334-344	10		
415.5	423		Carbonaceous Calc-Sil-Phyllite; thinly to laminarly banded, grey to black calcareous phyllite; minor						344-354	10		
			(<10%) Chlor-Clino-Amph-bands + calcareous bands, variably pyritic: generally < 1% but up to 15%						354-364	10		
			over 1" bands, no base metals.						364-374.5	10		
423	473		Calc-Sil-Phyllite and Bio-Phyllite Interbanded; as 292-415.5, However a 2' interval @						374.5-385	10'		
			344'-346' and a 1' interval @ 364'-365' of bio-musc-andul-schist assemblage. This demarstrates						385-395	10'		
			the gradational nature of the phyllite-schist map unit contact. Variably calcareous and randomly						395-405	10'		
			carbonaceous throughout interval. Minor py & po (≤ 1%) bands and blebs. Zone of broken core @						405-415	10'		
			469'-472'. S_2 = 90° to c.a. @ 450'						415-418.5	3.3'		
473	476		Bio-Musc-Andul-Schist; Brown to gray laminarly banded with near black andalusite porphs						418.5-426.5	3.0'		
			non-calc, non-mag; Description also applies to 344'-346' and 364'-365' BIMAS intervals						426.5-431.5	10.0'		
476	534		Transitional Zone of Interbanded Calc-Sil-Phyllite, Bio-Phyllite and Carbonaceous-Calc-Sil-Phyllite;						431.5-442	10.5'		
			as 292-415.5 & 423-473 But with a greater proportion of carbonaceous bands, weakly calcareous						442-452.5	10.25'		

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HOLE NO. 456-75-12
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	RECOVERY
476	534		Grey-White Post D_2 Bull Qtz veining predominates @ 531'-534'. This unit typifies the base						722.5-730.5 8'
			of the calc-sil map-unit. S_2 = 75° to c.a. @ 501'; Rich in Biotite, Good scattered showings						730.5-732.1 10.25'
			of py and po, Bands range as high as high as 25-30% Po @ 477.5-479.1. No base metals!!						732-741 10'
			Sulfides are foliaform with some X-cutting py-filled hairline fractures, Po > Py by 2:1.						741-751 10'
534	543.5		Carbonaceous Bio-Musc-Andul-Schist; med to dk grey brown, porphyroblastic, Bio > musc						751-761 10'
			schist with pervasive po (<1%) over interval						761-771 10'
543.5	597		Bio-Musc-Andul-Schist, med-grey, porphyroblastic, non carbonaceous, bio > musc schist						771-781 10'
			disseminated $^{(1\%)}_{po}$ (543.5-549'); S_2 = 70° to c.a. @ 550'; <1% disseminated po. 573-597						781-791 10'
597	598		Musc-Bio-Schist; strongly banded, yellowish beige and dk brown; musc > bio schist						791-801 10'
598	732.5		Bio-Musc-Andul-Schist; as 543.5'-597', Note D_2 transposition of D_1 foliation essentially						801-811 10'
			complete; S_2 = 70° to c.a. @ 600', S_2 = 70° to c.a. @ 650', S_2 = 70° to c.a. @ 702.5; Gouge zones as						811-821 10'
			follows; @ 620'-620.5' & @ 622'-623'. Disseminated po., generally <1% 598'-732.5' Note						821-831 10'
			disseminated po. @ 573'-751', <1% and appears as part of phase assemblage. Entire schist						831-841 10'
			unit has been examined with hand magnet to define this zone. No base metal sulfides seen.						841-851 10'
732.5	741		Interbanded Chlor-Clino-Amph Schists and Bio-Musc-Andul-Schists; alternating ½" thick						851-861 10'
			bands, mod blue-gray-green to grey-brown						861-871 10'
741	803		Bio-Musc-Andul-Schists, as 543.5'-597' & 598'-732.5' numerous ½" to 1'						871-881 10'
			bull qtz pods or veins. @ 765.5' = 2" gouge, disseminated po ≤ 1% from 741'-751'						881-891 10'
			S_2 = 75° to c.a. @ 750', S_2 = 75° to c.a. @ 800'						891-901 10'
803	810		Musc-Bio-Andul-Schist; lt grey-beige musc > bio with characteristic dk brown biotite						901-911 10'
			plotches; Interval occupies F_4 hinge zone, S_2 = 40° to c.a. @ 801.5', S_2 = 0° to c.a. @ 806'						911-921 10'

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803	810	(concluded)	S_2 = 55° to c.a @ 812′											
810	965.7		Bio-Musc-Andal-Schist; as 543.5′-597′ & 598′-732.5′, numerous 3″-12″ bull qtz					4po	Zones &	534	549			
			pods/veins; disseminated po general ≤1% @ 833′-857′. No base metal sulfides seen.							573	751			
			S_2 = 70° to c.a @ 850′, S_2 = 75° to c.a. @ 900′, S_2 = 80° to c.a @ 950′. Gouge Zones as							833	857			
			follows: 830.5′-831.5′ & 924.75′-927.5′							1099.5	1289.5			
965.7	1082.5		Porphyritic Hb-Bio-Diorite; massive unfoliated med grey-brown porphyritic (Hb-Bio-Plag)											
			Post D_2 diorite with fractures as follows: @ 1001.5′: 1″ gouge 40° to c.a. @ 1012′: 0.5″ gouge 30° to c.a.											
			Interval 1066.5′-1082.5′: irregularly fractured with qtz/CO_3= fracture fill. Minor xenoliths.											

RECOVERY			
INTERVAL	Recovery	Interval	Recovery
801.5-809	6.5′	1010-1020	10′
809-819	10′	1020-1030	10′
819-829	10′	1030-1040.5	10.5′
829-839	10′	1040.5-1050.5	10′
839-849.5	10′	1050.5-1060.5	10.5′
849.5-857	7.75′	1061-1071.25	10.25′
857-867	10.0′	1071.25-1081.5	10′
867-877	10′		
877-887	10′		
887-897.5	10′		
897.5-907.5	10′		
907.5-917.75	10′		
917.75-928	10.25′		
928-938.25	10.25′		
938.25-948.75	10′		
948.25-958.75	10′		
958.75-969	10′		
969-979.25	10′		
979.25-989.5	10.5′		
989.5-999.5	10′		
999.5-1010	10′		

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1082.5	1303		Bio-musc.-andalusite schist; med.-med. dk. gray, heavily S_2 foliated,						1082.5-1303 10'
			osely porphyroblastic, 2 mica (bio ≥ musc) pelitic schist; possibly						1303-1309 6'
			2 generations of andalusite — second (pink) spatially associated w/ qtz						1309-1319 10'
			veins/pods; D_2 transposition of D_1 fabric nearly complete as few						1319-1329.5 10.5'
			F_2 hinges preserved; interval 1099.5-1289.5 has pyrrhotite as						1322-1332.5 10'
			a mech forming mineral ranging from <1% to 5% w/ pods 3-6"						1332.5-1342.5 10'
			30% po; core very locally ferromagnetic over 1099.5-1257; no pre						1342.5-1353 10'
			D_2 in virgin; interval may represent down-dip projection of Faro						1353-1363 10'
			sulfide zone; S_2 = 70° to c.a. @ 1100'; F_2 ≈ axis of S_2 stretch @ 1148'						1363-1373 10'
			where S_2 ≈ 70° to c.a.; 1' gouge zone 1082.5-1083.5; S_2 = 75° to c.a @ 1201'						1373-1383 10'
			2" gouge @ 1200'; S_2 = 80-85° to c.a. @ 1253' & is irregularly developed in F_2						1383-1393 10'
			hinge where F_2 ≈ axis of S_2 stretch; 1' gouge zone 1291.5-1292.5; stem absent						1393-1403 10'
1303	1316		Musc-bio-andalusite schist; lt. gray beige, musc > bio pelitic schist						1403-1413 10'
			w/ med. blue gray and. porphs.; interval slightly carbonaceous; blocky						1413-1423 10'
			core over interval w/ gouge zones 1303-1304', 1311.5-1312.5; cf. white mica envelope						1423-1433 10'
1316	1316.3		Qtz.-felds porphyry; beige, very finely xlline post-D_2 concordant dike/sill						1433-1441.5 8.1'
1316.3	1323		Musc-bio-andalusite schist; as 1303-1316; unit cf white mica envelope on						1441.5-1452 10.5'
			E pit wall						1452-1462 10'
1323	1323.5		Qtz.-felds. porphyry; as 1316-1316.3						1462-1472 10'
1323.5	1330.5		Musc-bio-andalusite schist; as 1303-1316; 6" gouge 1325-1328.5'						1472-1482 10'
1330.5	1331		Hb-diorite dike/sill; med. reddish brown, porphyritic (hb-plag) post-D_2 sill						1482.5-1492.5 10'

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1331	1336.5		Musc-bio-andalusite schist; c.f. 1303-1316; intrusive progressively cut by post-D2 qtz pods/veins; @ 1333' schist mappunit enters transitional zone between 1331-1336 and 1528-2302						1329.5-1337 7.5'
									1327-1340 7.75'
1336.5	1440.5		Bio-musc, staur, andalusite schist; med gray brown, coarsely porphyroblastic bio>musc, pelitic schist; this unit c.f. 1082.5-1303 except slightly more qtzo-feldspathic and bio is reddish brown similar to qtzo-fldspathic schists lower in struct-strat sequence; rusty brown stained porphs (@ 0.1-0.2") scattered throughout interval; interval 1419.5-1437' contains po as ub forming nuggets (1-5% po) c.f. 1098.5-1281.5'; no apparent base metal sulfides						1340.5-1345.5 10.5'
									1345.5-1356 10'
									1356-1366 10'
									1366-1376 10'
									1376-1386 10'
									1386-1396.5 10'
									1396.5-1407 10.25'
									1407-1417 10'
1440.5	1448.5		Chlor-clinozoisite-ep schist/metatuff; med gray green, thinly bedded slightly carbonaceous schist of probable metavolcanic origin						1417-1427 10'
									1427-1437.5 10'
1448.5	1452.25		Bio-musc-andalusite schist; as 1336.5-1440.5 except staur absent S_1 = 80° to c.a @ 1450'						1437.5-1447.5 10'
									1447.5-1457.5 10'
1452.25	1455		Chlor-clinozoisite-ep schist/metatuff; as 1440.5-1448.5						1457.25-1468 10'
1455	1528		Bio-musc-and schist and bio-musc-staur-gar schist; med gray brown, coarsely porphyroblastic, bio>musc pelitic schists w/ variable fassemblage; unit more qtzo-feldspathic than 1082.5-1303 w/ complete D2 and incipient D4(?) foldings transposition; no apparent tuffs although minor scattered chlor S_2 = 85-90° to c.a @ 1500'						1468-1478.25 10.25'
									1478.25-1487.5 9.25'
									1487.5-1497.5 10'
									1497.5-1507.5 10
									1507.5-1518 10.5'
1528	1566		Quartz-feldspathic bio-musc staur schist and minor bio-musc-and schist; from approx 1528 schist mappunit becomes more qtzo-feldspathic and andalusite						1518-1528.5 10'
									1528.5-1538.5 10'

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	RECOVERY Interval	RECOVERY Recovery	RECOVERY Interval	RECOVERY Rec.
			abundance drops off markedly but does not disappear.; D_2 transposition of D_1 fabric decreasing gradually down hole; minor graphitic horizons; $F_2 \approx$ axis of S_2 strike @ 1547.5 where S_2 = 80-85° to c.a.						1559-1569	10'	1565.5-1575	9.5
									1569-1579.5	10.5'	1575-1585	10
									1579.5-1589.5	10'	1585.5-1595.5	10
									1589.5-1600	10.5'	1595.5-1605	9
1566	1575		Musc-bio-andalusite schist; lt. gray beige, musc >> bio. w/ dk. brown bio blebby (calc? F_2 hinge) and minor dk. blue green altered(?) andalusite porphs						1600-1610	10'	1607.5-1617.5	10
									1610-1620	10'	1617.5-1627.5	10
									1620-1630.5	10.5'	1627.5-1637.5	10
1575	1618		Qtzo-feldspathic bio-musc-staur-gar schist; as 1528-1566 w/ essentially no andalusite; no po noted; S_2 = 85° to c.a @ 1600						1630.5-1640.5	10	1637.5-1647.5	10
									1640.5-1651	10.5'	1647.5-1657.5	10
1618	1631		Musc-bio schist; as 1546-1575 except no recognizable andalusite some sericitization appears to overlap laterally some post-D_2 (cpy??) fractures						1651-1659	7.5'	1657.5-1665	10
									1659-1667.5	8.5'	1665-1674.5	10
									1667.5-1677.5	10.25'	1674.5-1684.5	10
1631	1661.5		Quartz-feldspathic bio-musc-staur-gar schist and bio-musc-andalusite schist; as 1528-1566; S_2 = 90° to c.a @ 1650'						1677.5-1687.5	10.25'	1684.5-1694.5	10
									1687.5-1697.5	10.25'	1694.5-1704.5	10
1661.5	1663		Porphyritic Hb-Diorite; as 965.7'-1082.5' except no biotite.						1697.5-1707.5	10.25'		
1663	1766		Qtzo-Feldspathic Bio-Musc-Staur-Garn-Schist; as 1575-1618, interval shows decreasing						1707.5-1717.5	10'		
			no. of chloritized andal. porphs, S_2 = 80° to c.a. @ 1700', S_2 = 85° to c.a. @ 1750'						1717.5-1723	5.5'		
			minor po (<1%) irregularly distributed over interval no suggestion of continuous zone of Po development						1723-1734.5	11.5'		
1766	1769		Graphitic-Chlor-Clino-Ampb-Ep-Schist; Strongly banded (.1"-.3") of alternating black graphitic						1734.5-1744.5	10'		
			and yellowish-green chlor-clino-ampb-ep-Schist						1744.5-1754.5	10		
1769	1904.5		Quartzo-Feldspathic-Bio-Musc-Garn-Staur ± Andal Schists; as 1575-1618 with slightly						1754.5-1764.5	9.5		

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1769	1904.5	(concluded)	mor andalusite. And'l always < 5%; S_2 = 85° to c.a. @ 1798', S_2 = 70° to c.a. @ 1849'						7.5
			$S_2 = S_1 = 80°$ to c.a. @ 1871', F_2 = line of $S_2\Sigma$, $S_1 = 0°$ to c.a @ 1873', $S_2 = S_1 = 85°$						2.75'
			to c.a @ 1874.5', S_2 = 80° to c.a. @ 1900'. Zones of broken & blocky core: 1769-1772.5',						7.0'
			1802' - 1806', 1881 - 1883 & 1895-1896; Gouge Zones as follows: 1" @ 1772', 3" @ 1799'						10.5'
			810.5'-812'						10.5'
1904.5	1915		Porphyritic Diorite to Granodiorite; massive beige to med. grey green, post D_2 diorite with						6.3'
			hb (?) phenocrysts & beige colour development at upper and lower contacts as well as adjascent to qtz						10'
			- Carbonate fractures						9.5'
1915	1924		Bio-Musc-Ardul-Garn-Schist; dk grey brown blocky and gouged interval between intrusive bodies						10'
			1' gouge zone @ 1922-1923						7.5
1924	1948.5		Vf. Xllire Flow Banded (?) post D_2, rhyodacite; lt yellow-green aphanitic flow banded						7.75
			intrusive of approx. dacite → rhyolite composition with some qtz eyes, contact breccia zones						
			imply post D_2 age.						
1948.5	1961		Musc-Bio-Schist; lt yellowish-beige, musc >> bio schist; irregularly fractured						
			with post D_3 sericite (?) and dk brown bio pods. Unit similar to white mica						
			envelope on east wall of pit S_2 = 70° to c.a. @ 1953.5'						
1961	1988.5		Bio-Musc-Schist; dk brown and beige blotchy appearance with bio > musc, numerous						
			6"-12" buff qtz veins. Interval sub-aluminous with near absence of aluminous silicate rich						
			minerals. Blotchy appearance due to ruptured bio schist bands in F_3 folds S_2 = 80° to c.a @						
			1968 where F_2 // to line of $S_2\Sigma$						
1988.5	1998.5		Musc-Bio-Schist; as 1948.5'-1961' with musc >> bio						

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	RECOVERY
1998.5	2004.5		Bio-Musc-Garn-Andal-Schist; dk brown, 2 mica schist with pyroxenite garnet and minor andalusite. S_2 = 75° to c.a. @ 2000'						
2004.5	2014.5		Musc-Bio-Schist; as 1948.5-1960' & 1988.5-1998.5' Note all musc-bio schists in this hole similar to white mica envelope. Gouge zone @ 2009.5'-2011' & @ 2006.5-2008						
2014.5	2086.5		Qtzo-Feldspathic Bio-Musc Schist; med grey brown, bio > musc - schist with minor staur and garnet and incomplete D_2 transposition of D_1 fabric. S_2 = 75° to c.a. @ 2051'. Note many F_2 hinges but can't measure accurately relative to S_2						
2086.5	2090		Musc-Bio-Schist; as 1988.5'-1998.5'						
2090	2188		Quartzo-Feldspathic-Bio-Musc-Garn-Schist; dk grey brown, bio > musc, sub-aluminous schist with no staur or andal; incomplete D_2 transposition of D_1 fabric; S_2 = 90° to c.a. @ 2100', F_2 = ll to lin of $S_2 \Sigma$ @ 2128, $S_1 \cong$ sub vertical from 2127'-2140', this may represent F_2 hinge With $S_2 = S_1$ = 70° to c.a either end this interval; S_2 = 70° to c.a. @ 2157'						
2188	2191		Chlor-Clino-Amph Schist/Metabasite; massive med blue green, finely xlline amph or metabasite of probable metavolcanic origin						
2191	2272		Quartzo-Feldspathic-Bio-Musc-Garn-Schist; as 2090-2188; S_1 sub vertical @ 2192-2230 This probably a moderately large F_2 hinge zone. $S_2 \approx S_1$ = 65° to c.a @ either end this interval; @ 2191-2192 good example of post-D_2 (F_4?) fold in S_2 w/ different orientation of F_3 and F_4 axis, axial plane of F_4 = 85-90° to c.a @ 2191.5, F_3 axial plane = 70° to c.a. @ 2192.5; S_2 = 70° to c.a @ 2206'						

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2272	2302		Musc-bio-chlor-gar schist; med. greenish beige and dk browns, interbanded sequence of musc≥chlor≥bio and bio>musc>chlor schists w/ brown-pink pyralspite garnets; moderately complete D_2 transposition of D_1 fabric; $S_1 \wedge S_2 = 70°$ to ca @ 2288'					
2302	2406		Subordinate 2 feldspar ± bio. granodiorite/qtz monzonite of Anvil Batholith; med xlline, gray beige, variably kaolinized(?), variably brecciated granitic rocks of Anvil Batholith; zone of brecciation 2340-2342. w/ subrounded to finely py blebs and subrounded to angular porphyritic granitic fragments in med-dk gray aphanitic, post main-stage granitic matrix; white bull qtz vein 2386-2387.75' (area where H_2O lost in hole)					
			Note: S_1 / S_2 relationships suggest a megascopic F_2 fold hinge from ≈ 2106' to 2255' (≈150') where S_1 is subparallel or ⊥ to core axis than has internal					
			Schist map unit divided into 3 subdivisions in this hole:					
			1) 534-1333' - gray, aluminous bio-musc-and. schist					
			2) 1333-1528' - gray brown, weakly aluminous, weakly gtz-plag-bio-musc-and schist (Transitional zone)					
			3) 1528-2302 - brown, non-aluminous gtz-feldspathic bio-musc±staur±gar schist					

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HOLE NO: 75-11
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
0	12		Overburden and rubbly bedrock on 1030 bench in pit					
12	44		Calc-silicate phyllite; strongly compositionally banded, lt-grey green to med green to purplish brown, qtz-bearing bands, chlor phyllite and bio. phyll interbanded on scale of 0.1-6.0"; unit typical lithology of calc-silicate phyllite map unit; non-mag., non-calc; interval blocky and heavily weathered; S_2 = 75° to c.a. @ 42.5'; complete D_2 transposition of D_1 fabric; interval 80-90% cpx and chlor bearing assemblages					
44	48		Calc-silicate phyllite; c.f. 12-44 except purplish bio. phyll. ≈ 80% of interval					
48	104.5		Calc-silicate phyllite; as 12-44; S_2 = 70° to c.a. @ 100'; interval ≈ 5% purplish brown bio. phyll poss. wk-mod cpx-chlor bearing assemblages					
104.5	109		Banded calc-silicate phyllite; silica-healed and heavily chloritized calc-silicate breccia, no bio. phyll. bands in interval, all cpx-chlor bearing assemblages; breccia goes c.f. marble breccia @ 70° to c.a. @ 104.5' & 109					
109	147		Calc-silicate phyllite; c.f. 12-44 as ≈ 30% each of lt green cpx, med-blue green chlor-chloromph and purplish bn bio phyll assemblages S_2 = 80° to c.a. @ 147; complete D_2 transposition of S_1 fabric					
147	151.25		Calc-silicate phyllite; lt gray green, banded by 1-2 mm bands of qtz-$CO_3^=$-chlor phyll; weakly carbonaceous, non-mag, high s.g.					
151.25	191		Calc silicate phyllite; interbanded med lt blue green chlor-chloromph phyllite (mod calc) and purplish brown bio phyll; approx 50% each rock type;					

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			S_2 = 70° to c.a @ 150'; complete D_2 transposition of D_1 fabric					
191	211.5		Graphitic schist; dk gray to black, highly graphitic schist; S_2 sub-parallel to c.a. 200-211 along/near fault zone		210			
211.5	212.5		Qtz-musc schist; lt. beige, v. finely ribbon blocks of highly sheared qtz-musc schist along fault zone in graphitic schist; unit heavily foliated		212			
212.5	214		Fault zone in graphitic schist; subvertically oriented 1-2" gouge and brxia zone in graphitic schist @ ± 5° to c.a. over the interval		214			
214	233		Crackle breccia in graphitic schist; qtz-CO_3 healed crackle brxia in graphitic schist unit; graphitic schist unit from 191-233 has fault zone thru center part of interval (stats); <1% dk brown ZnS disseminations		BIF			
233	210.5		Graphitic schist; as 191-211; S_2 = 50° to c.a. @ 234'; no sulfides, non-magnetic		233			
210.5	284		Muss-bio-andalusite schist; lt-med gray beige, med porphyroblastic musc > bio pelitic schist c.f. 534-1333' in 4156-75-12 every 1' less bio and C rich; S_2 = 70° to c.a @ 254'; nearly complete D_2 transposition of D_1 fabric; gouge zone w/ ball qtz and pink andalusite 255-256 @ 70° to c.a.					
284	303		Bio-chlo-musc schist; lt-med greenish beige to brown, thinly laminated, heavily qtz-carbonate veined 3 musc schist (?) w/ 1' gouge @ 20° to c.a. 284-290'; S_2 = 70° to c.a. @ 800'					

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303	3115		Musc bio-andalusite schist; as 210.5-284; 2-1' zones of grey-pink andalusite and an unknown mica bio-mineral + scapolite(?) 308.5-309.5 and 310.5-311.5; schist similar to 303-1328' in 456-75-12; S_2 = 80° to c.a. @ 312'; interval non-magnetic w/ no visible po; only sulfide occurrence is ½-¾" band of anastomosing po+py up to 40% total sulfides @ 70° to c.a. @ 336.5'					
345	3041		Carbonaceous to graphitic bio-musc-staur-andalusite schist; med gray to black variably graphitic, thinly to laminarly banded, co.ly porphyro-blastic bio > musc schist; 2 types of porphyroblasts occurring — ½ blue gray anhedral andalusite and ¼ pink, coarse (chiastolite?) staurolite??; uncertain whether blue staur or pink andalusite; nearly complete D_2 transposition of D_1 fabric; S_2 = 80° to c.a. @ 355.5 where F_2 = 0° (11) to line of S_2-strike, post D_2 lineation 30° to line of S_2 strike and plunges 51° (assuming S_2 to dip SW)					
3041	3741.5		Porphyritic hb-bio diorite; med gray green, med x'line, quartz porphyritic (hb-bio-plag) diorite; massive, unfoliated, post-D_2 age; comg intrusive contact = 70° to c.a. @ 304' and 374.5'					
3741.5	469		Bio-musc-andalusite schist; med brown, weakly porphyroblastic, thinly banded; bio > musc pelitic schist similar to transition zone (ie 1333-1528' in 456-75-12; S_2 = 85° to c.a. @ 401'; S_2 = 75° to c.a. @ 457'; nearly complete D_2 transposition of D_1 fabric; interval weakly					

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			magnetic 377-389 w/ 2-3% po as mag, remainder of intervals 1% po bearing									467-476	8.5
												476-481	5.0
469	477		Graphitic qtz-musc schist; blk-gray-black, thinly banded, weakly pyritic qtz-musc schist; incomplete D_2 transposition of D_1 fabric									481-487	6.0
												487-491	3.5
477	493		Sulfide bearing graphitic qtz-musc-schist and ribbon banded graphitic quartzite; mod. to strongly banded, blk-gray to black, weakly graphitic thinly banded, pyritic and PbS-ZnS bearing qtz-musc schist and ribbon banded graphitic quartzites; prominent 0.25-1" wide massive pyrite bands w/ thinly banded to diss. PbS/ZnS; S_2 = 80° to c.a. @ 482.5; incomplete D_2 transposition of D_1 fabric, many F_2 hinges in sulfides; S_2 = 90° to c.a. @ 488 w/ F_2 axis ⊥ to line of S_2 strike; interval should be split									491-495	3.5
												495-501	6.0
												501-506	5.0
												506-516	10.0
												516-526	10.0
												526-536	7.0
												536-547	10.2
												547-557	10.0
493	498		Non graphitic sulfide bearing quartzite; mod. bluish gray, thinly banded, weakly pyritic quartzite w/ 3-8" band of massive pyrite; minor reddish brown-black PbS banded and diss. thru interval; split and analyze interval									557-567	10.0
												567-576	9.0
498	503.5		Pyritic massive sulfides; easily 3 bands, 80-90% total sulfide w/ minor PbS/ZnS banding as well as diss. PbS/ZnS; 2" pp py band @ 498' where py polygranular aggregates recrystal along w/ several qtz-musc schist frags; no BaSO4 seen										
503.5	508		Massive py; pyritic, pyritic sulfides; weakly banded, jackrh										

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			bronze. massive po w/ 20-40% py bands and blebs; massive magnetite					
			porphyry 506-508'; 20 Rq 5/4 steel; banding (S_2) = 75° to c.a. @ 506'					
508	516		Porphyritic hb-bio diorite; med-dk gray green, strongly porphyritic					
			(hb-bio-plag), massive, part of Dr diorite dike/sill w/ contacts 70° to c.a.					
			@ 508 and 516					
516	531		Massive pyrrhotite, pyritic sulfides; as 503.5-508; irregularly banded					
			mass sulfs. w/ 60-80% po w/ 10-20% py as rounded subhedral?					
			blebs to angular frags. to easily 1" in subhedral py growing in					
			pressure shadows of massive, randomly oriented qtzite frags; no mag-					
			netite or barite visible; disc ZnS + AbS throughout					
531	535		Heavily brecciated and gouged sulfide bearing massive qtzite; c.f.					
			493-498 except heavily gouged and brecciated (?) 532-535'; gouge					
			@ 40° to c.a. @ 532; note only 6" core recovered 532-535';					
			no indication of lg. amt. lost core from fractured blocks					
535	538.5		Massive pyrrhotite, pyritic sulfides; as 516-531, 503.5-508; 3"					
			band PbS + ZnS @ 535-535.25'					
538.5	550.5		Massive pyritic sulfides; approx 70% total sulfide, massive					
			typical "low-flat" pyritic ore w/ weak PbS + ZnS banding; med-weak					
			chlor; no visible magnetite or barite; 1-6" porphyry band 539.5-					
			540'; angular foliated qtzite frags in sulfides 548-550'; banding					
			(S_2) = 60° to c.a. @ 550'					

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550.5	554.25		Massive pyritic pyrrotite sulfide; as 503.5-508, 516-531, 535-538.5; many gtzte frags randomly oriented in massive sulfs.; 1' band early recrystallized py >> 551-552'					
554.25	555		Qtzite (?) brecciated sulfide bearing quartzite breccia; incipiently brecciated and healed py-ZnS-PbS bearing med. bluish gray gtzite; matrix of brcia is M. ochre c.f. clasts to margins 508 and 516'; 1-2% cp as vn's throughout					
555	559.5		Pyrrotite, pyritic sulfide bearing quartzite; strongly bedded, variably sulfidic, po >> py bearing quartzite > as/variable qtzite dissem'd brown ZnS + PbS; note: reddish brown ZnS generally assoc. w/ gtzte while black ZnS in mass pyritic sulfides i.e. less FeS saturation in ZnS of gtzte because less py/po in gtzte; banding (S_0) ~60° to cra @ 559'; appox 30-40% total sulfides over interval					
559.5	560.5		Pyrrotite, carbon bearing graphitic quartzite; approx. 30% total sulfides over interval; strongly bedded dk gray; py >> po; less reddish brown ZnS in gtzte					
560.5	563		Massive pyritic pyrrotite sulfides; as 503.5-508, 516-534, 535-538.5, 550.5-554.25; 80% total sulfides over interval; no magnetite as visible in core					
563	564.5		PbS-ZnS rich massive sulfide to sulfide bearing quartzite; dk reddish gray PbS+ZnS >> py > po; approx 70-80% total sulfides; 1-2% cp over interval of pebbly, broken core; no magnetite is visible to observed					

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564.5	568		Bio-musc-qtz-plag-hbl-andalusite schist; as 560.5-563; cont. to 566											
568	570.5		Bio-musc-andalusite-sillimanite schist; dk gray, weakly aluminous, laminarly banded, bio-fsic qtz-musc and schist of altered musc envelope.											
570.5	590		Carbonaceous, qtz-musc-bio-andalusite schist; med-dk gray, thinly to laminarly banded, weakly aluminous w. musc-andalusite-sillimanite schist; S_2 = 50° to c.a. @ 584; note unit identical to 462-477 and may be fold repetition of same.											
590	674.25		Musc-bio ± andalusite schist; med gray brown, thinly to laminarly banded, weakly aluminous, slightly and irregularly carbonaceous, occ. thinly Dz transposed pelitic schists; rust altered musc envelope; 0.5-3" altered bull qtz veins/pods characteristic of interval; S_2 = 40° to c.a. @ 650'											
674.25	682		Pyrrhotite bearing bio-musc schist; as 508-516; contact @ 50° to c.a. @ 674.25 and 682'; numerous 0.5-1.0" gouge zones thru interval @ 50° to c.a.											
682	743		Bio-musc-andalusite schist; med brown gray thinly banded, rarely porphyroblastic, bio > musc pelitic schist; interval same as 542-1333 on 456-75-12; note 570.5-743 equivalent to 543-1333 on 456-75-C; 1.5' bull qtz pod/vein @ 70° to c.a. @ 685.5-687; S_2 = 80° to c.a. @ 701'; S_2 = 60° to c.a. @ 743'											
743	1088		Bio-musc-andalusite schist; med gray brown, med fine, thinly banded, occ. mod pelitic schist equivalent											

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			to 1333-1528' (at least) in 156-75-12; typical, weakly developed brown biotite, less uniform and intense development, brown to lighter gray color biotite alteration zones in 156-75-12 may exceed as much as 1150-1560', if "end member" approach used); thus interval 191-743 in 75-11 ≅ 543-1150/1333' in 156-75-12 and 743-1038 in 75-11 ≅ 1150/1333' to 1528/1560' in 156-75-12; stringers to pegmatite like zones 745.25; prominent white bull qtz pods/veins 824-826, 893.5-894.5, 935-936 937-939; S_2 = 85° to c.a. @ 811'; note 787-802 = lg. F_2 hinge as suggested by extreme F_2 folding over this interval (deviation of closure impossible to obtain) S_2 = 65° to c.a. @ 865'; S_2 = 90° to c.a. @ 901'; S_2 = 85° to c.a. @ 1017.5 where F_2 = 0° (or 11) to line of S_2 strike; S_2 = 85° to c.a. @ 1068; entire interval mainly homogeneous suggestive <1% py thru interval; source of po concentration <1% to include: 794-799; 831-840; 847-853; 897.5-933; 944-947.5; 958-965 1018-1024; 1029-1036; 1068-1075;					
1388	1330		Biot-Bio²-Andal-Schist; dk brown to beige blotchy, thinly banded mineralized schist, interval characterized by: dk brown bio-rich clots or patches with sharp to diffuse boundaries. Interval 1313-1330 shows best examples of bio-blobs with diffuse borders. This interval has approx 1% py > po. and bio blobs seem to be breaking down to massive py/po. P_b <1% - 2 and @ following intervals 1094-1105, 1114.5-1120, S_2 = 70° to c.a. @ 1099'. S_2 = 65° to c.a. @ 1157'. S_2 = 70° to c.a. @ 1200. S_2 = 75° to c.a. @ 1218. S_2 = 75° to c.a. @ 1279.					
1330	1371		Qtz-Bio-Muse Schist; as 1388-1330 except bio predominates over muse. Same blotchy					

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1330	1371		appearance. Minor andalusite. Numerous altd. biotite-rich bull qtz pebbly veins some with excellent pink andalusite. (esp. 1362-1363'). This interval appears to be a less-typical portion of schist unit as in 456-75-12 1528-2302. Essentially complete D_3 transposal of D_1 fabric S_0 = 70 to c.a. @ 1350					
1371	1421		Qtz-Musc-Bio ± Garn Schist; as 1088-1330. irregular weakly foliation to pyss pockets @ 1376-1376.5. and 1404-1404.5 in qtz-musc schist essentially free of biotite. Nearly mutual exclusion of bio and sulfides again suggests sulfidization reaction (?) Bio + S_2 ⟹ Musc + Py/Po. S_2 = 70° to c.a. @1410'.					
1421	1454		Qtz-Bio-Musc Schist; as 1330-1371. Incomplete D_3 transposition of S_1 fabric S_2 = 60° to c.a. @1450', S_2 = 60° to c.a. @1431 where F_3 ≈ 60° to lineal $S_2 \Sigma$ and plunges West.					
1454	1472		Qtz-Musc-Bio Schist; as 1088-1330 and 1371-1421. Characteristic Biotite platelets (Brittly deformed and boudinaged. Bio-rich S_1 boudins ruptured thru F_3 fold hinges. Interval shows some diffuse bio-def contacts in pyritic qtz-musc schist matrix					
1472	1515		Qtz-Bio-Musc-Schist; as 1330-1371 and 1421-1454. Essentially complete D_3 transposition. S_3 = 50° to c.a. @1505'.					
1515	1558		Qtz Musc-Bio Schist; as 1088-1330 and 1371-1421 and 1454-1472 No appreciable sulfides in this interval. Essentially complete D_3 transposition S_3 = 55° to c.a. @1550'					
1558	1562		Metabasite with minor Bio-Musc Schist interbeds; med green to yellow green. F. Mine, weakly banded metabasite + 2-mica schist. 3" gouge 65° to c.a. @ 1562'					

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1562	15835		Qtz-Musc-Bio Schist ; c.a. 1515-1558.											
15835	1639		Interbanded Metabasite and Variably carbonaceous qtz-bio-schists ; typical med-grey massive metabasite bands 6"-2' thick ; interleaved with thinly banded med brown-grey to dk grey qtz-bio schists. Interval approx 50% each lithology. Incomplete D_2 transposition S_2 = 75° to c.a. @ 1596.											
1639	1662.5		Metabasite ; dk green massive, widely banded. S_2 = 50° to c.a. @ 1652'											
1662.5	16835		Interbanded Metabasite and Carbonaceous qtz-bio-schists ; as 15835-1639.											
			Note interval - 1683.5 to 16835 may constitute lowest recognizable subdivision of schist map unit. Similar lithologies seen in 73-X-1 , 74 DS 1 and 74 DS 2.											
1683.5	1688		Sub-Solvus Pegmatite ; off white to lemon-yellow, weakly flow foliated, med-coarse grained. Two feldspar pegmatite. Yellow phase thought to be feldspar ?											
1688	1704.75		Interbanded Metabasite and Carbonaceous qtz-bio-schists ; as 1583.5-1639 and 1662.5-1683.5. S_2 = 70 to c.a. @ 1702.5.											
1704.75	1708		Bull Qtz Vein (PBD) ; 70° to c.a. @ 1704.75											
1708	1724		Sub-Solvus Pegmatite ; as 1683.5-1688. Numerous 1" grey X-cutting qtz veins ; contact 60° to 1708											
1724	1729		White Bull Qtz Vein (PBD) ; as 1704.75-1708, synvolcanic distribution of bull qtz and pegmatite suggest zoned pegmatite sill 1704.75-1729. ; contact 50° to c.a. @ 1729											
1729	1730		Graphitic Schist ; black, laminally banded. S_2 = 70° to c.a. @ 1729.5											
1730	1747		Interbanded metabasite and carbonaceous qtz-bio schists ; as 1583.5-1639, 1662.5-1683.5 ; pervasive feldspathic 1730-1731 in qtz-bio-schist bands											

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1747	1751.5		Quartz-magnetite sill; fg. blue (S_1); effusive - Brown weathering fg. Bio-Cbo schist (S_2) stringers sill											
1751.5	1794		Interbanded metatuffites and calcareous fg. bio schists; as 1583.5-1683.5, 1730-1747; minor (<1%) fg. bands is metatuffite; mafic facies 20-30% of interval inc. more calcareous schist. Thin interval; 2" fg. marg. sill @ 1765'; S_2 = 70° to c.a. @ 1752'											
1794	1796		Foliaform, tour-gar. pegmatoid sill; lt. grey, med-coarse gneiss of 1-3" pegmatoid stringers foliaform of, concord. to S_2											
1796	1805		Interbanded metatuffites and bio. schists; c.f. 1751.5-1794 except sequence more calcareous; entire interval 1583.5 to @ base 1818 represents a third member of schist mapunit & alternating by approx 50% metavolcanic lithologies; S_2 = 70° to c.a. @ 1802'											
1805	1893.5		Interbanded sequence of variously bedded metatuffites, chloritic-musc. schists and gneissic-foliaform bio schists; sequence of variocolored (beige-med. green-dk brown), variably bedded, massive and variously foliated schists; lithologies similar to that in calc-schists; rhythmic over-zone 3 of randomly oriented D. folded subangular fragments in more dominant chloritic (or) matrix; possibly matrix is in part a chloritized ext. D. dacitic glass; minor Xalas bio. Siouite stages in this											
1893.5	1899.5		Bio. Siouite banded (to. schist/gneiss; 6' thick zone similar to											

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			above interval except w/ abrupt bio diorite matrix					
1899.5	1965.5		Biotite diorite; med. dk. gray, finely porphyritic (bio-plag); massive diorite; minor (<1%) bb. polycrystalline aggregates; similar to border phase of Aerial Batholith NW of Mt. Tit; could equally well be a dike; no sharp contact w/ above bio gdi. rather a gradational boundary; no fabric					
1965.5	1991		leucocratic bb(?) granodiorite; lt. gray to off-white, fine xl'line equigranular hornblende(?) bearing granodiorite; qtz. rare; interval also similar to mafic border phase of Aerial Batholith only more finely xl'line; interval could also be conc. of zoned diorite dike/sill; interval shows relatively sharp contacts w/ enclosing diorite					
1991	2015.5		Biotite diorite; as 1899.5-1965.5					
2015.5	2023		Biotite granodiorite; beige, finely xl'line, weakly porphyritic (bio-2 feldspars) biotite granodiorite not like assy. previous intervals; unit nearly identical to finely xl'line phase of Aerial Batholith but not really porphyritic (same bulk comp. as Batholith - subsolvus as well)					
2023	2039		Biotite diorite; as 1899.5-1965.5, 1991-2015.5					
2039	2109.5		Brecciated, alter. felsic veined bio. schist and minor schist; as 1805-1893.5; diorite contact 40° to c.a. @ 2039 where bio interval intersected; 1" gouge 55° to c.a. @ 2039.25'; entire interval 1899.5-2039 is a zoned diorite dike; bio granodiorite/monzonite (color) bnd					

Diamond Drill Record

COLLAR:
NORTH
EAST
ELEVATION
LOGGED BY
DATE LOGGED
MAP REFERENCE NO.

HOLE SURVEY		
FOOTAGE	AZIMUTH	DIP
METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			increase from 2068 to end of interval ; several stages of intrusion recognizable in interval :					
			① Intrusion of bio. granodiorite					
			② Xenoliths of schists and bio granodiorite					
			③ Intrusion of pink Hb. granodiorite					
			④ Intrusion of typical hb-bio. diorite (2100-2108')					
			Note that this is also sequence of intrusions on regional scale.					
			Hb-bio diorite 2100-2108					
2109.5	2155		Smoky qtz-feldspar porphyry ; lt. gray, aphanitic groundmass w/ mod. (0.1") xtlline smoky qtz phenocrysts and occ (0.5") zoned plag. phenos ; phenos. subhedral to subhedral ; unit is same as that encountered in 71-24 ; contact w/ above hole = 40° to c.a. @					
	EOH		2109.5					

Diamond Drill Record

PAGE 1 OF 5

COLLAR:	HOLE SURVEY		
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 45-75-15
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
0	10		Overburden					
10	95		Calc-silicate phyllite; med. gell. gray green, thinly bedded light calc-areous chlor-clinozoisite-ep bearing calc-silicate bands (80%) interbedded w/ purplish brown to gray brown bio. phyll. bands (10-15%) and off white to lt. gray calcitic marble folia (5-10%); note: free $CaCO_3$ laminae give rise to calc-areous nature; 2" $CaCO_3$ healed calc-silicate bands cross-cutting S_2 @ 70° NE @ 66'; S_2 = 70° to c.a. @ 49'; S_2 = 70° to c.a. @ 94'; nearly complete D_2 transposition					
95	146		Calc-silicate phyllite; dk. gray brown, calcareous bio. phyll (85%) w/ lt gray calcitic marble laminae (10%) and minor med. gell. gray green chlor-clinozoisite-ep bearing calc-silicate bands; remnant pull apart pods/veins (dilation) - 125-135'; nearly complete D_2 transposition of D_1 folia; S_2 = 70° to c.a. @ 146					
146	162.5		Calc-silicate phyllite; as 10-95' w/ 70% calc-silicate bands, 20% bio phyll and 10% marble laminae					
162.5	240		Calc-silicate phyllite; as 95-146 w/ 70% dk. brown biotite phyllite bands, 20% med. gell. gray green calc-silicate bands and 10% calcitic marble laminae; S_2 = 80° to c.a. @ 195'; S_2 = 75° to c.a. @ 248'					
240	321.5		Calc-silicate phyllite; med. gell. gray green, weakly to moderately calc-areous calc-silicate bands (chlor-clinozoisite-ep-CO_3) (60%) inter					

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			Interbanded w/ ≈ 40% dk. purplish brown bio. phyll w/ no interbanded marble laminae; nearly pervasive S_2 over interval; S_2 = 70° @ 350'					
334.5	354.5		Calc-silicate phyllite; carbonaceous bio. phyll (70%) w/ 20% calcitic marble laminae and 10% med. yell green calc-silicate assemblages; S_2 = 75° to c.a @ 350'; S_2 pervasive over interval					
354.5	419.5		Calc-silicate phyllite; interbanded (0.1"-12.0") med. yell green chlor-clinozoisite-ep-$CO_3^=$ bearing calc-silicates (40%) and dk. brown bio phyll (60%) w/ no calcitic marble laminae; pervasive S_2 thru interval; S_2 = 70° to c.a. @ 402'					
419.5	422.5		Carbonaceous bio-musc andalusite schist; med. gray brown, laminarly banded, early graphitic bio > musc-pelitic schist; unit in sharp conformable contact w/ calc-silicate @ top & base of interval; may be zone of interbanded schists & calc-silicate on F_2 infolds					
422.5	428		Calc-silicate phyllite ("metasomatic" metatuff); dk. yll. gray green, thinly banded chlor-clinozoisite-ep-$CO_3^=$ calc. silicate assemblage (90%) w/ musc (10%) dk. brown bio. phyll. bands					
428	1179.5		Graphitic bio-musc-andalusite schist; as 419.5-422.5 except graphitic					
422.5	433.5		Calc-silicate phyllite ("metasomatic metatuff"); c.f. 422.5-428 w/ 75% calc-silicate assemblages, 25% dk. br. bio. phyll; pervasive S_2 over interval					

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
433.6	501		Carbonaceous bio-musc. andalusite schist; med. gray, laminarly banded, coarsely porphyroblastic bio-musc pelitic schist; typical upper aluminous member of schist sequence as 551.-1733 in 436-75-12; pervasive S_2 over interval; S_2 = 75° to c.a. @ 470'; S_2 = 78° to c.a. @	498'			
501	525.5		Interbanded calc-silicate ("metasomatic" metatuffite) and bio-musc. and. schist; dk. green, weakly calcareous "metatuffites (70%) and bio-musc- and. pelitic schists; in all probability sequence originally pelite - CO_2 bands w/ CO_3 and "metasomatically" converted to metatuffites or metatuffites represent orig. pelite - CO_3 mixture				
525.5	623		Carbonaceous bio-musc-andalusite schist; as 433.6-501; At upper member; pervasive S_2 over interval; fault zone @ 60° SW 536.25-537.5 w/ minor gouge; 1-5% andalusite over interval; S_2 = 75° to c.a. @ 548.5'; S_2 = 65° to c.a. @ 605'; gouge zone 60° SW 599.5-600.5'				
623	647		Graptolitic bio-musc-andalusite schist; v dk. gray to black, laminarly banded, coarsely porphyroblastic aluminous schist w/ prominent chiastolitic andalusite porphyroblasts				
647	710		Bio-musc-andalusite schist; c.f. 433.6-501, 525.5-623 except less carbonaceous; incomplete D_2 transposition of D_1 fabric; S_2 = 55° to c.a. @ 648'; S_2 = 90 to c.a. @ 700'				
710	716.5		Dk-musc-bi. schist; beige to offwhite, laminarly, banded,				

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS	Recovery From	Recovery To	Recovered
			brittle fine, non-porphyroblastic schist of white mica envelope characteristic foliaform and annectrid py bands & blebs; pervasive S_2						706	716	10'
									716	726	10'
									726	736.5	10.5'
716.5	727.5		Sulfide bearing, ribbon banded graphitic quartzite; alternating lt. gray sulfide bearing qtzite folia and dk. gray to black graphitic schist folia giving stripped or ribbon banded appearance to unit; py-ZnS-PbS diss. w/in qtz-rich bands; probably <2% combined Pb+Zn over interval; incomplete I_2 transposition w/ complex internal lithon structure; S_2 IIs graphitic folia and is 65° to c.a. @ 721'					747 should be 716.5'	736.5	747	10.1'
									747	750	3.5'
									750	760.5	10.5'
									760.5	770.5	10'
									770.5	780.5	10.2
727.5	729.5		Massive pyritic sulfides; "buck-shot" pyritic facies of mostly massive (70-80% sulfides) sulfides w/no visible magnetite or $BaSO_4$; normal "black" PbS+ZnS 727.5-725, from 725-729 ZnS has typical "Fe-undersaturated(?)", reddish brown color; banding (S_2) = 65° to c.a. @ 726.5'; interval probably >10% combined								
729.5	731		Massive pyritic sulfides w/ py porphyroblasts and angular to rounded calcite fragments; no visible magnetite or $BaSO_4$; mod. xtlline py porphs up to 0.25" on edge at top & bottom of interval; po. very finely xtlline w/ PbS+ZnS disseminations; weak pyritic banding at top & base; interval probably ≈ 10% combined Pb+Zn								

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
731	736.5		Sulfide bearing quartzite; pyritic quartzite w/ ≈ 50% total sulfides showing moderate banding; minor po patchily distributed over interval; no mag. or BaSO4 seen; interval prob. 5-10% combined Pb+Zn											
736.5	742.5		Massive pyritic sulfides; "buckshot" pyritic facies w/ interstitial black PbS+ZnS; mag + po 734.5-736 associated w/ early porphyroblastic "buckshot" pyrite; no BaSO4 seen; 6" band of PbS+ZnS rich sulfides 739-739.5; interval probably 10% combined											
742.5	767		Sulfide bearing, ribbon banded graphitic quartzite; as 716.5-732.5; incomplete D_2 transposition w/ considerable internal gravity interval strongly banded (S_2) @ 55° to c.a. @ 750'; interval probably ≤ 5% combined Pb+Zn											
767	773		Qtz-musc-py schist; as 710-716.5; pervasive S_2											
773	778		Musc-bio-qtz schist; M-dk gray brown bio = musc ± garnet schist transitional between normal aluminous schist and white mica envelope; interval identical to last 8' (783-791) in 71-D52											
778	821		Bio-musc-andalusite schist; M-med. gray brown, laminarly banded, weakly aluminous bio = musc schist to near top of upper M member; incomplete D_2 transposition of D_1 fabric S_2 = 80° to c.a. @ 500'											
	EOH													

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO. 71-DS-1
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

180

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
0	13		Overburden					
13	83		Calc-silicate phyllite; interbanded sequence of metabasalt and chlor-phyllite; interval about 60-70% massive dk green metabasalt F_2 folds w/ S symmetry @ 25' where S_2 = 75° to c.a. and F_2 axis = 10° to line of S_2 strike and plunges SE (assuming SW dip for S_1); minor interbands of epidote bearing chlor-clinozoisite calc-silicate assemblage and epidote free S symmetry F_2 folds @ 65'; S_2 = 75° to c.a. @ 50'					
83	142		Calc-silicate phyllite; blue-green chlor-clinozoisite ep assemblage w/ 15-20% interbanded purplish br bio phyll; S symmetry F_2 folds @ 91, 92' S_2 = 80° to c.a. @ 103'					
142	174		Calc-silicate phyllite; calcareous phyllite member w/ 30% lt gray $CaCO_3$ rich bands, 55% dk brown bio phyll bands and 20% blue green chlor-clinozoisite ep calc-silicate bands; S symmetry F_2 @ 151.5, 142'; S_2 = 75° to c.a. @ 150'; nearly complete D_2 transposition					
174	199		Calc-silicate phyllite; chlor-clinozoisite member w/ 50% calc-silicate bands 20% purplish br bio phyll bands; nearly complete to D_2 transposition					
199	206.5		Graphitic phyllite; black, thinly banded, weakly foliated (<1%), non-calcareous graphitic phyllite w/ minor (<5%) calc-silicate interbands; unit completely D_2 transposed; S_2 = 80° to c.a. @ 200'					
206.5	235		Calc-silicate phyllite; chlor-clinozoisite ep calc-silicate member (60%) w/ thinly interbanded brown bio phyll (35%) and minor calcareous phyll bands (<5%)					

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH	FOOTAGE	AZIMUTH	DIP
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
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FINISHED
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			complete D_2 transposition of D_1 fabric w/ characteristic bandscape of bio-phyll bands in calc-silicate host					
235	347		Calc-silicate-phyllite; ab 1112-1741'; interbanded sequences of calc-clinopyroxene ± qtz calc-silicate bands (40%), thin lt. gray calcareous phyll (marble) bands (5-10%), purplish brown bio-phyll (40%) and med. gray green, dull textured, chlo-phyll (10-15%); much of interval decrepitated & swelled to muddy clay in box; S symmetry F_2 folds @ 248', 286', 297', 335.5' suggesting control with axial to have S symmetry; S_2 = 70° to c.a @ 243', S_2 = 80° to c.a @ 288', S_2 = 70° to c.a @ 335.5' where S style F_2 fold axis = 0° (on ll) to line of S_2 strike and ≡ L_2 cumulative lineation					
347	401		Calc-silicate phyllites; dk. yellow gray green, thinly banded, chlo-clinopyroxene calc-silicate member (>90%) w/ minor (10%) bio-phyll. interbands; S symmetry. F_2 folds noted @ 350.5' where S_2 = 60° to c.a. and F_2 = 30° to line of S_2 strike and plunges SE (assuming 565 dip to S.); internal consistently completely D_2 transposed; S_2 = 70° to c.a. @ 397'					
401	430.5		Calc-silicate phyllite; 90% purplish brown, laminarly banded, D_2 transposed weakly calcareous bio-phyll w/ minor (10%) interbanded calc-silicate assemblages; general complete D_2 transposition; @ 420.5, L_2 axes 1 to line of S_2 strike dipping 7 symmetry F_2 folds looking up dip; S_2 = 70° to c.a @ 420.5'					
430.5	460		Calc-silicate phyllite; as 13-83; complete D_2 transposition; S_2 = 70°					

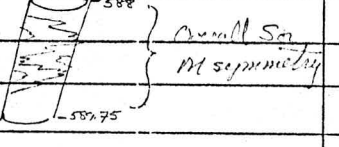
Diamond Drill Record

COLLAR:
NORTH
EAST
ELEVATION
LOGGED BY
DATE LOGGED
MAP REFERENCE NO.

HOLE SURVEY	FOOTAGE	AZIMUTH	DIP
METHOD:			

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			to c.a. @ 452' where post D_2 folding in S_2 has irregular axial planes fol'n @ 55° to c.a. dipping NE, post-D_2 folds slightly overturned to SW (assuming S&S 53 dip)					
460	478.5		Chl-ser-qtz phyllite; interbanded chlor-chiastolite calc-silicate bands (50%) and purplish brown bio-phyll. bands (50%); complete D_2 transposition; unit shows gradational contact w/ bio-musc. and. schist below w/ no possibility of a thrust fault contact; S_2 = 85° to c.a. @ 478. and 480 on (c) side of contact					
478.5	798		Bio-musc. andalusite schist; med. brown/gray, thinly bedded, early porphyroblastic, bio ≈ musc, pelitic schist identical to 549-1838 i.e. 456-475-12 i.e. aluminous upper member of schist map unit (≈5% andalusite porphyroblasts); S_2 = 70° to c.a. @ 514' where S symmetry F_2 fold axes = 40° to line of S_2 strike and plunge SE (assuming S&S S_0 dip); S_2 = 70° to c.a. @ 562' where F_2 show S symmetry; S symmetry F_2 @ 576'; 1' chlor-bio schist band 588 – 589.25 showing following symmetry: 					
			Chlor-bio. schist only present in lineage (M) zone; S_2 = 80° to c.a. @ 600'					

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
LOGGED BY			
DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
COMMENCED
FINISHED
PROJECT NO.

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS
			S_2 = 85° to c.a. @ 646'; S_2 = 70° to c.a. @ 695.5' where S_2 folded into post-D_2 folds w/ incipient axial planar foliation @ 50° to c.a. and dipping NE if S_2 dips SW, post-D_2 folds overturned to SW if S_2 dips SW; S symmetry F_2 folds @ 666', 670', 689.5', from 689.5-715' D_2 [illegible] of D_2 fabric complete; Z symmetry F_2 folds @ 715', 758', 780', 783', 793', 810', 814', 823', 835.5', 852.5', 883', 884', 894', 945.5'; S symmetry F_2 folds @ 946-948', 952.5-954'; Z symmetry F_2 fold @ 967', 969'; S symmetry F_2 @ 970'; Z symmetry @ 982', 993'; note symmetry description covers interval 478.5-999 EOH; note absence of M symmetry between S & Z, inferred hinge zones completely sheared" out"; S_2 = 80° to c.a. @ 758', S_2 = 80° to c.a. @ 798'					884.5 836.5 48.0
798	836.5		Pyritic qtz mica-bio schist; lt. gray beige to med gray-brown, thinly banded, rarely pyritic, musc ≥ bio schist; from 873-836.5 unit is true white mica quartzite; ½" mica qz band @ 817'; S_2=50° to c.a. @ 800'; gouge @ 60° to c.a. 828.5-829'					
836.5	864.5		Sulfide bearing, ribbon banded graphitic quartzite; med gray to black thinly banded, rarely graphitic, rarely sulfidic graphitic muscovite to qtzite; this is Faro sulfide bearing dense dip pos zone #3; total sulfides 1-10% w/ average 2-3%, PbS+ZnS 1-5% w/ average 1-2%; S_2 35° to c.a. @ 852.5'					836
864.5	874.5		Weakly pyritic quartz musc schist; c.f. 798-836.5; med gray, laminated					

Diamond Drill Record

COLLAR:	HOLE SURVEY		
	FOOTAGE	AZIMUTH	DIP
NORTH			
EAST			
ELEVATION			
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DATE LOGGED			
MAP REFERENCE NO.	METHOD:		

COMPANY NAME
PROPERTY NAME
DRILLING CONTRACTOR
ASSAYER
PURPOSE OF HOLE

HOLE NO.
CLAIM NAME
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	SAMPLE WIDTH	SAMPLE NO.	ASSAYS						
			banded, weakly pyritic and carbonaceous, very siliceous gly-musc schist w/ trace visible base metal sulfides; rest white mica quartzite lithology; 3" gouge 872-872.25 @ 70° to ca											
874.5	884.5		Sulfide-bearing, carbon banded andalusite schist; as 836.5-864.5; the interval approximately consists of 765+ 7nS (width & hours) and only weakly pyritic relative to 836.5-864.5; interval 881-884.5 ± 5-10% ZnS, should assay >5% combined Pb+Zn											
884.5	891		Pyritic gly-musc-bio schist; as 798-836.5; interbanded as 864.5-887.5; 1-3% py disseminated interval; trace white mica quartzite lithology 887.5-891'											
891	999		Bio-musc-andalusite schist; as 425.5-798'; S_0 = 30° to ca @ 901', 950', S_0 = 65° to ca @ 999'											
	EOH													

APPENDIX III

COMPANY PELLY RIVER MINES ..CLAIM ....BILL..... AREA ..... LOCATION Whitehorse M.D.... N.T.S. ..105-K-6.....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
16	85598	1	M. Ladue	Nov. 15/63			July 1/83	Assess. work filed
17-18	85599-85600	2	G. Sterriah	Nov. 15/63			July 1/85	Date: Feb. 13,1975
20	85602	1	G. Sterriah	Nov. 15/63			July 1/85	Amount: $26,764.00
22	85604	1	G. Sterriah	Nov. 15/63			July 1/85	Type : D.D.H. 74-DS-1,
24	85606	1	G. Sterriah	Nov. 15/63			July 1/85	2,3,4
26	85608	1	A. Dickson	Nov. 15/63			July 1/85	Sept. 12-Oct.31
28	85610	1	A. Dickson	Nov. 15/63			July 1/85	Applied to: BILL
30	85612	1	A. Dickson	Nov. 15/63			July 1/85	QUE
32	85614	1	A. Dickson	Nov. 15/63			July 1/85	JOE
33-38	85615-85620	6	G. Bob	Nov. 15/63			July 1/82	MO.
							July 1/82	* * * * * * * * * *
* See	QUE Fractions							Assess. Work Filed Date: Amount· 24,139.00 Type· DDH 75-11 May 20-June 6/75

COMPANY PELLY RIVER MINES CLAIM GALE AREA Anvil Area MINING DISTRICT Whitehorse N.T.S. 105-K-3

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
1	Y67319	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1978	Assess. Work filed by Kerr Addison-AEX (1 yr. on 1,3,5,7) CERTIFICATES OF WORK NOT RECEIVED
2	Y67320	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1977	
3	Y67321	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1978	
4	Y67322	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1977	
5	Y67323	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1978	
6	Y67324	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1977	
7	Y67325	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1978	
8	Y67326	1	C. Van Dusen	Oct. 23,1972			Oct. 23,1977	
9-12	Y67327-Y67330	4	R. Van Dusen	Oct. 23,1972			Oct. 23,1977	
13-20	Y67331-Y67338	8	K. Francis	Oct. 23,1972			Oct. 23,1977	
21-24	Y67339-Y67342	4	R. Van Dusen	Oct. 23,1972			Oct. 23,1977	
25-32	Y67343-Y67350	8	J. Francis	Oct. 23,1972			Oct. 23,1977	
33-39	Y67351-Y67357	7	A. Hart	Oct. 23,1972			Oct. 23,1977	
40-46	Y67358-Y67364	7	J. Hart	Oct. 23,1972			Oct. 23,1977	
47	Y67365	1	A. Hart	Oct. 23,1972			Oct. 23,1977	
48	Y67366	1	J. Hart	Oct. 23,1972			Oct. 23,1977	
49-56	Y67367-Y67374	8	M. Banachowicz	Oct. 23,1972			Oct. 23,1977	
57Fr-64	Y67375-Y67382	8	W. Banachowicz	Oct. 23,1972			Oct. 23,1977	
65Fr-66Fr.	Y67383-Y67384	2	G. Maltby	Oct. 23,1972			Oct. 23,1977	

* See QUE FRACTIONS

COMPANY PELLY RIVER MINES CLAIM JOE AREA Vangorda Creek LOCATION Whitehorse M.D. N.T.S. 105-K-6

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
2	85680	1	J. Dick	Nov. 15/63			July 1/81	Assess. Work Filed
4	85682	1	J. Dick	Nov. 15/63			July 1/81	Date: Feb. 13, 1975
6	85684	1	J. Dick	Nov. 15/63			July 1/81	Amount: $26,764.00
8	85686	1	J. Dick	Nov. 15/63			July 1/80	Type: DDH 74-DS-1,2,3
10	85688	1	L. Ladue	Nov. 15/63			July 1/83	Sept. 2-Oct.31/74
12	85690	1	L. Ladue	Nov. 15/63			July 1/84	Applied to: BILL
14	85692	1	L. Ladue	Nov. 15/63			July 1/84	QUE
16	85694	1	L. Ladue	Nov. 15/63			July 1/84	JOE
17	85695	1	A. Shorty	Nov. 15/63			July 1/84	MO
18	85696	1	A. Shorty	Nov. 15/63			July 1/83	* * * * * * * * *
								Assess. Work Filed
								Date: June, 1975
								Type: DDH 75-10
								May 10-19th, 1975
								DDH 75-11
								May 20-June 6/75
See	QUE CLAIMS							

COMPANY PELLY RIVER MINES CLAIM L.O. AREA Rose Creek LOCATION Whitehorse M.D. N.T.S. 105-K-6

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
4-7	94121-94124	4	G. Peel	Nov. 18/65			July 1/82	
8-15	94129-94136	8	E. Schacht	Nov. 18/65			July 1/82	
16-19	94137-94140	4	W. R. Ford	Nov. 18/65			July 1/82	
* See	QUE FRACTIONS							

COMPANY PELLY RIVER MINES CLAIM TIE AREA Vangorda Creek LOCATION Whitehorse M.D. N.T.S. 105-K-6

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
1-8	85719-85726	8	P. Charlie	Nov. 15/63			July 1/79	Assess. Work Filed
9-16	85727-85734	8	I, Dick	Nov. 15/63			July 1/79	Date: June 1975
17-24	85735-85742	8	A. McLeod	Nov. 15/63			July 1/79	Type: DDH 75-06 & 07 Mar.10-Apr.3/75 DDH 75-09 Apr.16-May 4/75
* SEE	QUE FRACTIONS							
* See	WHI FRACTIONS							

COMPANY PELLY RIVER MINES ..... CLAIM QUE FRAC. ..... AREA Rose Creek ..... LOCATION Whitehorse M.D. ..... N.T.S. 105-K-6 .....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
Related	to BILL CLAIMS							Assess. Work Filed
6-8	Y10566-Y10568	3	J.T. Devere	Sept. 15/66			July 1/85	Date: Feb. 13/75
9	Y10569	1	J.T. Devere	Sept. 15/66			July 1/82	Amount: $26,764.00
Related	to LO CLAIMS							Type: DDH 74-DS-1,2, 3,4 Sept. 2-Oct.31/74
10-13	Y10570-Y10573	4	J.T. Devere	Sept. 15/66			July 1/82	
14	Y10574	1	Peter Gillis	Sept. 15/66			July 1/82	Applied to: BILL QUE JOE MO
Related	to JOE CLAIMS							No balance
16	Y10575	1	Peter Gillis	Sept. 15/66			July 1/80	Assess. Work Filed
18	Y10577	1	Peter Gillis	Sept. 15/66			July 1/84	Date: June, 1975
Related	to TIE CLAIMS							Type: DDH 75-06 & 07 Mr. 10-Apr.3/75 DDH 75-10 May 10-19/75 DDH 75-11 May 20-June 6/75
17	Y10576	1	Peter Gillis	Sept. 15/66			July 1/79	
Related	to RICH CLAIMS							* * * * * * * *
19-20	Y10657-Y10658	2	J. Kirkland	Sept. 27/66			July 1/78	Assess. Work filed by Kerr Addison-AEX (1 yr. on QUE 80 Fr.)
Related	to GALE CLAIMS							
21-26	Y10659-10664	6	J. Kirkland	Sept. 27/66			July 1/77	CERTIFICATE OF WORK NOT RECEIVED
27-30	Y10665-L0668	4	R. Mieritz	Sept. 27/66			July 1/77	
33-34	Y10671-Y10672	2	R. Mieritz	Sept. 27/66			July 1/77	
35-36	Y10673-Y10674	2	P. Byers	Sept. 27/66			July 1/77	
38-39	Y10676-Y10677	2	P. Byers	Sept. 27/66			July 1/77	
41-42	Y10679-Y10680	2	P. Byers	Sept. 27/66			July 1/77	
80	Y10687	1	J. Heinze	Sept. 27/66			July 1/78	
81	Y10688	1	J. Heinze	Sept. 27/66			July 1/77	
82-85	Y10689-Y10692	4	P. Eineigel	Sept. 27/66			July 1/77	

COMPANY ANVIL MINING .....CLAIM ..... WHI FRACTIONS AREA ..... Faro Creek ..... LOCATION ..... Whitehorse M.D. ..... N.T.S. ..... 105-K-6 .....

Claim No.	Grant No.	No. of Claims	Staked by	Recording Date	Transfer Information To	Transfer Information Date	Due Date	Assessment Work and Remarks
Related to FARO CLAIMS								Assess. Work Filed
1	94566	1	A.D. Hosford	Nov. 23/65			July 1/83	Date: May 8, 1975
2-6	94567-94571	5	A.D. Hosford	Nov. 23/65			July 1/87	Amount: $16,171.00
7	94572	1	A.D. Hosford	Nov. 23/65			July 1/83	Type: DDH 75-03 Mar. 25-Apr.3/75 DDH 75-02 & 04 Mar. 18-Apr. 14/75 DDH 75-06 & 07 Mar. 10-Apr. 3/75 DDH 75-08 Apri. 7-15/75 DDH 75-09 Apr. 16-May 4/75
9-13	94614-94618	5	L. Smith	Nov. 25/65			July 1/87	
14-20	94696-94702	7	J. Johnny	Nov. 26/65			July 1/87	
35	Y3014	1	J. Pauls	March 16/66			July 1/87	
51-53	Y3015-Y3017	3	J. Pauls	March 16/66			July 1/87	
100-103	Y3018-Y3021	4	J. Pauls	March 16/66			July 1/87	
104	Y3298	1	G. McAllister	March 17/66			July 1/87	
105	Y3984	1	R. Dudlets	March 29/66			July 1/87	
134	Y4385	1	M. Polzald	April 6/66			July 1/87	
Related to TIE CLAIMS								
21-24	Y1278-Y1281	4	E. Waddington	March 7/66			July 1/79	
25	Y1282	1	E. Waddington	March 7/66			July 1/79	
26	Y1283	1	E. Waddington	March 7/66			July 1/79	
27-32	Y1286-Y1291	6	D. Tully	March 7/66			July 1/79	
33-34	Y1284-Y1285	2	E. Waddington	March 7/66			July 1/79	
118-121	Y4370- Y4373	4	D. Carlick	April 6/66			July 1/79	
122	Y4374	1	D. Carlick	April 6/66			July 1/81	
123-125	Y4375-Y4377	3	D. Carlick	April 6/66			July 1/79	
126-127	Y4378-Y4379	2	L. Tommy	April 6/66			July 1/79	
Related to SUN CLAIMS								
36-38	Y1292-Y1294	3	Z. Lavoie	March 7/66			March 7/ 77	
39-42	Y1295-Y1298	4	Z. Lavoie	March 7/66			March 7/77	
43	Y1299	1	Z. Lavoie	March 7/66			March 7/79	
44-50	Y1300-Y1306	7	G. McAllister	March 7/66			March 7/77	
128-129	Y4380-Y4381	2	L. Tommy	April 6/66			April 6/ 77	
130-133	Y4382-Y4385	4	L. Tommy	April 6/66			April 6/77	