Diamond Drill Record 015959

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LAT/DEPTH/DIST	
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. 71-DS-1
CLAIM NAME ______
COMMENCED ______
FINISHED ______
PROJECT NO. ______

FROM	TO	RECOVY	DESCRIPTION	SAMPLE FROM	SAMPLE TO	WIDTH	NO.	ASSAYS
0	13		Overburden					
13	83		Calc-silicate phyllite; interbanded sequence of metabasite and calcareous [illegible] phyllite; interval about 60-70% massive [illegible] green metabasite; F_2 folds w/ S symmetry @ 25' where S_1 = 30° to c.a. and F_2 axis = 10° to line of S_2 strike and plunges SE (assuming 50° dip for S_1); minor interbands of epidote bearing and epidote free chlor-clinozoisite calc-silicate assemblage; 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 graphitic 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 of 80% calc-silicate bands 20% graphitic bio phyll bands; nearly complete D_2 transposition					
199	206.5		Graphitic phyllite; black, thinly banded, weakly pyritic (<<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%)					

PAGE ______ OF ______

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						
			complete D_2 transposition of D_1 fabric w/ characteristic boudinage of bio-phyll bands in calc-silicate host											
235	347		Calc-silicate phyllite: cf. 142-174; intertonguing sequence of chlor-clinozoisite ± gr calc-silicate bands (40%), thin lt. grey calcareous phyll (marble) bands (5-10%), greenish brown bio. phyll (40%) and med. grey green, dull lustred, chlor. phyll (10-15%); much of interval decrepitated & swelled to mushy clay in box; S symmetry F_2 folds @ 248', 286', 297', 335.5' suggesting entire interval to have S symmetry; S_1 = 70° to c.a. @ 243', S_1 = 50° to c.a. @ 288', S_1 = 70° to c.a. @ 335.5' where S style F_2 fold axis = 0° (or ll) to line of S_1 strike and ≡ L_2 crenulation lineation											
347	401		Calc-silicate phyllite; dk yellow grey green, thinly banded, chlor-clinozoisite calc-silicate member (>90%) w/ minor (10%) bio phyll. interbands; S symmetry F_2 folds noted @ 350.5' where S_1 = 60° to c.a. and F_2 = 30° to line of S_1 strike and plunges SE (assuming SW dip to S_1); interval essentially completely D_2 transposed; S_1 = 70° to c.a. @ 397'											
401	420.5		Calc-silicate phyllite: 90% greenish brown, laminarly banded, D_2 transposed weakly calcareous bio. phyll w/ minor (10%) interbanded calc-silicate assemblage; except complete D_2 transposition; @ 420.5, F_2 axes ⊥ to line of S_1 strike, defining Z symmetry F_2 folds looking up dip; S_1 = 70° to c.a. @ 420.5'											
420.5	460		Calc-silicate phyllite; as 13-83; complete D_2 transposition; S_2 = 70°											

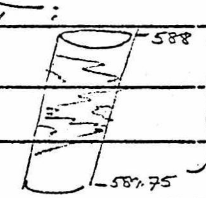
Diamond Drill Record

PAGE ____ OF ____

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
				to c.a @ 452' where post D_2 folding in S_2 has insignificant axial plane fol'n @ 55° to c.a. dipping NE; post-D_2 folds slightly overturned to SW (assuming SW S_2 dip)					
145.8	460	478.5		Qtz-silicate phyllite; interbedded chlor-clinozoisite calc-silicate bands (50%) and graphitic bearing 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 @ side of contact					
243.2	478.5	778		Bio-musc-andalusite schist; med. brownish gray, thinly banded, locally porphyroblastic, bio ≈ musc, pelitic schist identical to 549-1533' in 456-75-12 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 SW (assuming SW S_2 dip); S_2 = 70° to c.a. @ 567 where F_2 shows S symmetry; S symmetry F_2 @ 576'; 2' chlor-bio schist band 588 - 589.25 showing following symmetry:					
				588-588.5 = Z F_2 588.5 = M F_2 588.5-589 = S F_2 589.25 = M F_2 589.25-589.5 = Z F_2 [illegible] = S F_2 					
				Chlor-bio. schist only present in hinge (M) zone; S_2 = 80° to c.a @ 600'					

Diamond Drill Record

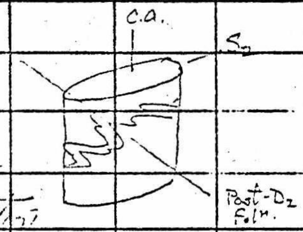
COLLAR:
North ____
East ____
ELEVATION ____
LOGGED BY ____
DATE LOGGED ____
MAP REFERENCE NO. ____

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
			S_2 = 85° to c.a. @ 646'; S_2 = 70° to c.a. @ 695.5' where S_2 folded with 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 transposition of D fabric complete; Z symmetry F_2 folds @ 715', 758', 782', 783', 793', 810', 814', 823', 835.5', 852.5, 883', 884', 894', 915.5; S symmetry F_2 folds @ 946-948, 952.5-954; Z symmetry F_2 folds @ 967', 970': 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'
798 (255.0)	836.5		Pyritic qtz-musc-bio schist; lt gray-beige to med gray-brown, thinly banded, variably pyritic, musc ≥ bio schist; from 823-836.5 unit is true white musc [overlying]; 1/2" mass py band @ 817'; S_2 = 80° to c.a. @ 800'; gouge @ 60° to c.a. 828.5-829'
836.5 (263.5)	864.5 (266.5)		Sulfide bearing, ribbon banded graphitic quartzite; med gray to black thinly banded, variably graphitic, variably sulfidic graphitic muscovite schist; this is [Fern] sulfide bearing down-dip from zone #3; total sulfides 1-10% w/ average 2-3%, PbS + ZnS 1-5% w/ average ≤1%; S_2 = 70° to c.a. @ 852.5'
864.5	874.5		Weakly pyritic quartz-musco schist; c.f. 798-836.5; med gray, laminated

Diamond Drill Record

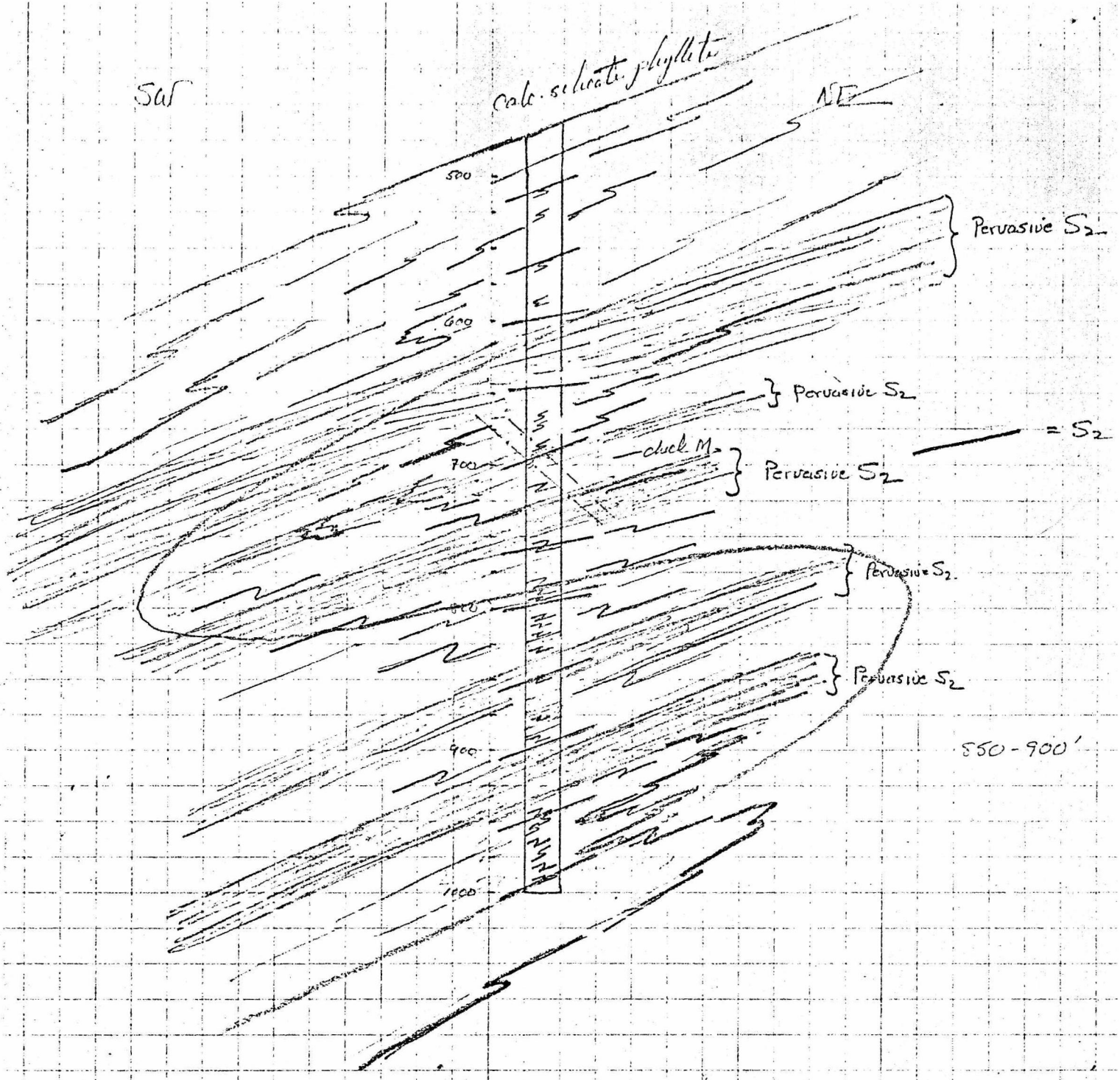
PAGE ______ OF ______

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						
			banded, weakly pyritic and carbonaceous, very siliceous qtz-musc schist; no visible base metal sulfides; not white mica overlying lithology; 3" gouge 872-872.25 @ 70° to c.a.											
880.5	884.5 269.6		Sulfide-bearing, calc-bearing banded qtz-white schist; as 830.5-864.5; this interval appreciably enriched in PbS + ZnS (a.d.h. to bearing) and only weakly pyritic relative to 830.5-864.5; interval 881-884.5 ≈ 5-10% ZnS, should assay >5% combined Pb+Zn											
884.5	891		Pyritic qtz-musc-bio schist; as 775-830.5; interval carbonaceous 884.5-887.5; 1-3% py dissem over interval; lower white mica overlying lithology 887.5-891'											
891	903 EOH	304.5	Bio-musc-andalusite schist; as 475.5-798'; S_1 = 70° to c.a. @ 901'; 950', S_1 = 65° to c.a. @ 900'											


SW
Calc. silicate phyllite
NE
500
600
700
800
900
1000
Pervasive S_2
Pervasive S_2
= S_2
chuck M.
Pervasive S_2
Pervasive S_2
Pervasive S_2
550 - 900'

1971 D.D. HOLES

105 K 6

HOLE NO.	COLLAR	GROUND ELEVATION	NORTHINGS	EASTINGS
DS-71-1	2.5	3960.67	6,532.39	13803.16
DS-71-2	2.5	3,957.55	7,336.35	13,800.53
D.D.H. 71-1	2.5	3,964.65	8,117.63	13,975.22
D.D.H. 71-2	1.5	4,003.49	8,600.40	13,793.32
D.D.H. 71-3	1.5	3991.10	8,397.12	13,996.76

71-DS-1

0-12-0B

12-501 — calc. Qtz chl Bio Ser Schist:

12-41 — calc. chl Schist:

fo: No preferred orientation.

Green chl. Schist- distortion visible only thorough lens. chlorite folia oriented in irregular lady. Calcite occurs as dist and as veinlets.

41-152

fo: 78°

Gneissic brown calc. Qtz chl Bio Ser Schist. Segregated bands of calcite & quartz ||el to f2 impart a pronounced banding.

147-152 — Increase in Bio.

184 — crenulated

189-198

enrichment in chlorite

203-204 — Gr. Schist.

cont. relation

221-223 — "

243-245.5' Highly calcareous and tends to be more banded

Phy. no fol in this increment.

261-266 Highly calc.

FOLIATION STILL SAME

289-298 —

calc Qtz Bio Schist.

301-308

Highly calc and in places pure lt bands

346 – 356 — Highly calc and

limy phy in places.

401 – 431 — Qtz Bio chl. calc.

Schist.

Fo : 82°

431.5 — fracture zone.

PY Deposition

433 – 454 — chl. Schist.

Fo : 77°

Highly friable chlorite Schist

with coarse foliation wrinkle

linations on septa.

454 – 501

calc. Qtz/ chl Bio Ser Schist;

Fo : 81°

491 – 498 — Qtz Gr. Schist

Fo : 81°

501 – 1000

Qtz Bio chl Schist (Semi

(~~not~~ Negligible — calcite

501 – 706)

503 —

Fo : 82°. phy partings.

Pronounced F_2 fold, seen

bands & Qtz veins F_2 and

important ~~dominant~~ emplacements

dragged & formed lenses.

544 – 544.5 — Gr. Schist.

Qtz veining common throughout.

Coarse dark grey cluster &

fractures cutting across the

foliation are commonly prevalent

throughout the core.

578 – 578.5 — Minor fracture

zone — Py dep.

(PTO)

71-DS-1

0-12- OB

12-501 — calc. Qtz chl Bio

Ser Schist:

12-41- calc. chl Schist:

Fo: No preferred orientation.

~~[illegible]~~ Green chl. Schist. deformation visible only through lens. chlorite folia oriented irregularly. Calcite occurs as diss and as veinlets.

41-152

Fo: 78°

Greyish brown calc. Qtz chl Bio Ser Schist. Segregated bands of calcite & quartz ‖el to f_2 impart a pronounced banding.

147-152 - Increase in Bio.

184- crenulated

189-198

enrichment in chlorite

~~[illegible]~~

203-204 - Gr. Schist.

cont. relation

221-223 — "

243-245.5 Highly calcareous and tends to be more limy phy. no sol in this increment.

261-266 Highly calc.

FOLIATION STILL SAME.

289-298 —

calc Qtz Bio Schist.

301-308

Highly calc ~~[illegible]~~ in places pure ~~[illegible]~~ bands

832 - 885

Qtz / Gr. Schist;

cont - 82°

Regularly banded Qtz Gr. Schist with wide septa of Gr.

Filling the septa occur Py, Cp & few specks of Ga.

Minor crenulations are common.

Total Sulphide mineralization app. amounts to 2%.

Normally this section is typical of preceding section & Wa holes and here the depo. did not occur.

This section is quite typical at the end of Sulphide zone.

885 - 1000

Qtz Bio Chl (Gr) Schist

fo : 8°

998 - 1000 - core.

71-DS-2

0-15 — O.B

15-73.5

Qtz
calc. Bio. chl. schist:

fo: 72°

Minor Sericite is present in lower parts of the core. Calcite occurs as segregated bands and finely disseminated.

50' — F_2 is folded and produced in wrinkle lineations on foliation planes. The lineations parallel the axes of folds.

73.5 — 101.5 — chlorite schist.
fo: 62°

Stringers of quartz present throughout. Calcite occurs as veins upto 5 mm wide.

89.3

101.5 — 248

Qtz
Calc. Bio chl Ser Schist:
fo: 65°

Segregated bands of Qtz are widely present and usually occur parallel to foliation. Phyllitic partings occur where Biotite increased. Sericite occurs occassionally.

149 — Diss. Py.

163.5 — 164

Minor Breccia. No apparent fault. Appears as solution caving. Py deposition occurred in fracture zones.

173.5 — Minor Py.

198 — fo: 63°.

223 — 225 — Highly calcareous.

243 — 247 — " "

231 — Py & SP assoc. with 5 mm Qtz vein.

248 — 293 : Calc. Qtz Bio chl Ser. Schist:

837 - 885

Qtz / Gr. Schist;

cont — 82°

Regularly banded Qtz Gr Schist with wide septa of Gr.

Filling the septa occur P.Y., CP & few specks of Ga.

Minor crenulations are common.

Total Sulphide mineralization app. amounts to 2%.

Normally this section is typical of preceeding section & Wa lodes and here two depo. did not occur.

This section is quite typical at the end of Sulphide Zone.

885 - 1000

Qtz Bio chl (Gr) Schist

fo : 8°

918 - 1000 - core.

fo: 67°

287 – Minor Sp. assoted with Qtz Vein.

293 – 366 – calc. Qtz & Bio chl. Ser. Schist:

fo: 71°

305 – Siliceous & Gal & Sp also. with 6" Quartz band. Po increases at the lower contact and ~~appears~~ amounts to 12% of the core at the contact. Some Skarny (Greenish yellow) epidotic material is present in the irregular contact.

308.5 – 309 – Highly siliceous, almost massive impure Qtzite with Plg. partings. Py porphyroblasts are widely present.

307 – 307.5 – 3 mm wide vein of Sp, Gal Py occurs combinable to fz. ~~Sp~~ Greenish yellow Skarny material occurs at irregular intervals.

307.5 – 307.8 – Minor Breccia Zone. Not related to fault.

Mine. increases in the Skarn & Mine. are not related.

330 – mine – Ga, Sp & Py in Skarny matl.

332.7 – 333.2 – Minor fracturing. Not fault Zone, Deposition & Sdes – ~ 4% by vol.

335 – ~~Small scale~~ dip ~~Sch~~ – 3 mm Ga, Sp & Py also. with Skarny material.

335 – 366 – calc bio Qtz chl Schist continues.

366 – 509 – calc Qtz & Bio. chl. Ser Schist;

fo: 79°

413 – 415 – calc. Qtz & Gr. Schist. contin. band.

509 – 536 – Same as above

[redacted] 20' f.

[redacted] Qtz chl ser schist.

Upper contact not clear due to [redacted]

fault [redacted] occurs commonly.

[redacted] persists throughout.

553 - Py deposition.

foliations dip in all directions & diagonal at 557 measures 14° indicating dip slip.

550 - 552 - fo - 78°.

core intact.

561 - Py dep.

561.5 - 563.5 - fo: 78°. Core intact.

Appears a combination of two faults with dip slips.

566 - 689 Qtz chl ser bio schist:

The calcite gradually decreases and rock unit ~~[illegible]~~ changes to Qtz chl ser bio. schist.

fo: 71°

582.5 - Py

595.5 - Py

610 - 626 - fracture zone.

628 - Highly cremulated.

631 - Highly cremulated.

631.5 - 682 - Bio schist

686 - Py

689 - 717 Qtz Bio chl ser schist:

fo: 82°

701 - cremulated.

716 - 717 - "

717 - 741 Qtz bio chl ser schist.

cremulations common.

741 - 791 "

[redacted] - fault zone

Appears to be a clean slip fault.

foliations at lower contact not disturbed & dip 68° right in the contact.

Py dep at the L. cont.

762 - 773 - cremulations.

791 + F.Z.

fo: 67°

287 - Minor SP associated with Qtz Vein.

293 - 366 Calc Qtz Bio chl. Ser Schist:

fo: 71°

305 - Stringers of Ga & SP also. with 6" Quartz band. P_b increases at the lower contact and amounts to 12% of the core at the contact. Some Skarny (Greenish yellow) epidotic material is present in the irregular contact.

308.5 - 309 - Highly Siliceous, almost massive impure Qtzite with Phy. partings. Py porphyroblasts are widely present.

307 - 307.5 - 3 mm wide vein of SP, Ga & Pyrrhotite combinable to Az. Greenish yellow Skarny material occurs at irregular intervals.

307.5 - 307.8 - Minor Breccia Zone. Not related to fault.

Mine. increases in the fault zone. Skarn & Mine. are not related.

330 - Mine - Ga, SP & Py in Skarny matl.

332.7 - 333.2 - Mineralized fracturing. Not fault Zone, Deposition of Sides - ~ 4% by Vol.

335 - Small scale banded zip SUP - 3 mm. Ga, SP & Py also. with Skarny material.

335-366 - Calc Bio-Qtz chl Schist continues.

366 - 509 - Calc Qtz Bio. chl. Ser Schist;

fo: 79°.

413 - 415 - Calc. Qtz Gr. Schist. cont. band.

509 - 536 - Same as above