

MAP NO.: ASSESSMENT REPORT X
105 D 3,4 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092784
MINING DISTRICT: Whitehorse
TYPE OF WORK: Diamond Drilling

REPORT FILED UNDER: Mt Skukum Gold Mining Corporation

DATE PERFORMED: 1 June-25 July, 1989 DATE FILED: 18 January, 1990

LOCATION: LAT.: 60°12'N AREA: Mt Skukum

LONG.: 135°25'W VALUE \$:

CLAIM NAME & NO.: KUKU 162,242; GLEE 63F

WORK DONE BY: D. Reddy

WORK DONE FOR: Mt Skukum Gold Mining Corporation

DATE TO GOOD STANDING:

REMARKS: MT SKUKUM #115
The report includes locations and logs for 3 diamond drill holes totalling 701.19 m. The three holes tested the TANGO, OCEAN and GOAT veins respectively. A thin calcite vein in drillhole 89-550 which tested the OCEAN vein contained galena, pyrite and traces of sphalerite and assayed 27.9 g/t Au and 2337.2 g/t Ag over 0.19 m.

GEOLOGICAL DRILL CORE LOGS FOR HOLES 89-556, 89-554, AND 89-550 SUBMITTED FOR ASSESSMENT PURPOSES ON GROUPS OF CLAIMS THAT INCLUDE: GLEE, PUP, CHU, WOOF, KUKU, MOE, AND CHIEF CLAIMS ON THE MT. SKUKUM PROPERTY, WHITEHORSE MINING DISTRICT, S.W. YUKON TERRITORY.

NTS SHEETS: 105 D-3, 105 D-4.

SUPERVISOR OF WORK: D. REDDY

WORK WAS DONE BETWEEN: JUNE 1 AND JULY 25, 1989.



MOUNT SKUKUM GOLD MINING CORPORATION

DRILL LOGS FOR DRILL HOLES:

89-556 Tango Grid
on claim Kuku 162

89-554 Goat Grid
on claim Kuku 242

89-550 Ocean Grid
on claim Glee 63 F

Submitted as Representation of
work in 1989 to extend expiry
dates of claims indicated on
accompanying forms.

092784

D. Reddy
Jan. 15, 1990.

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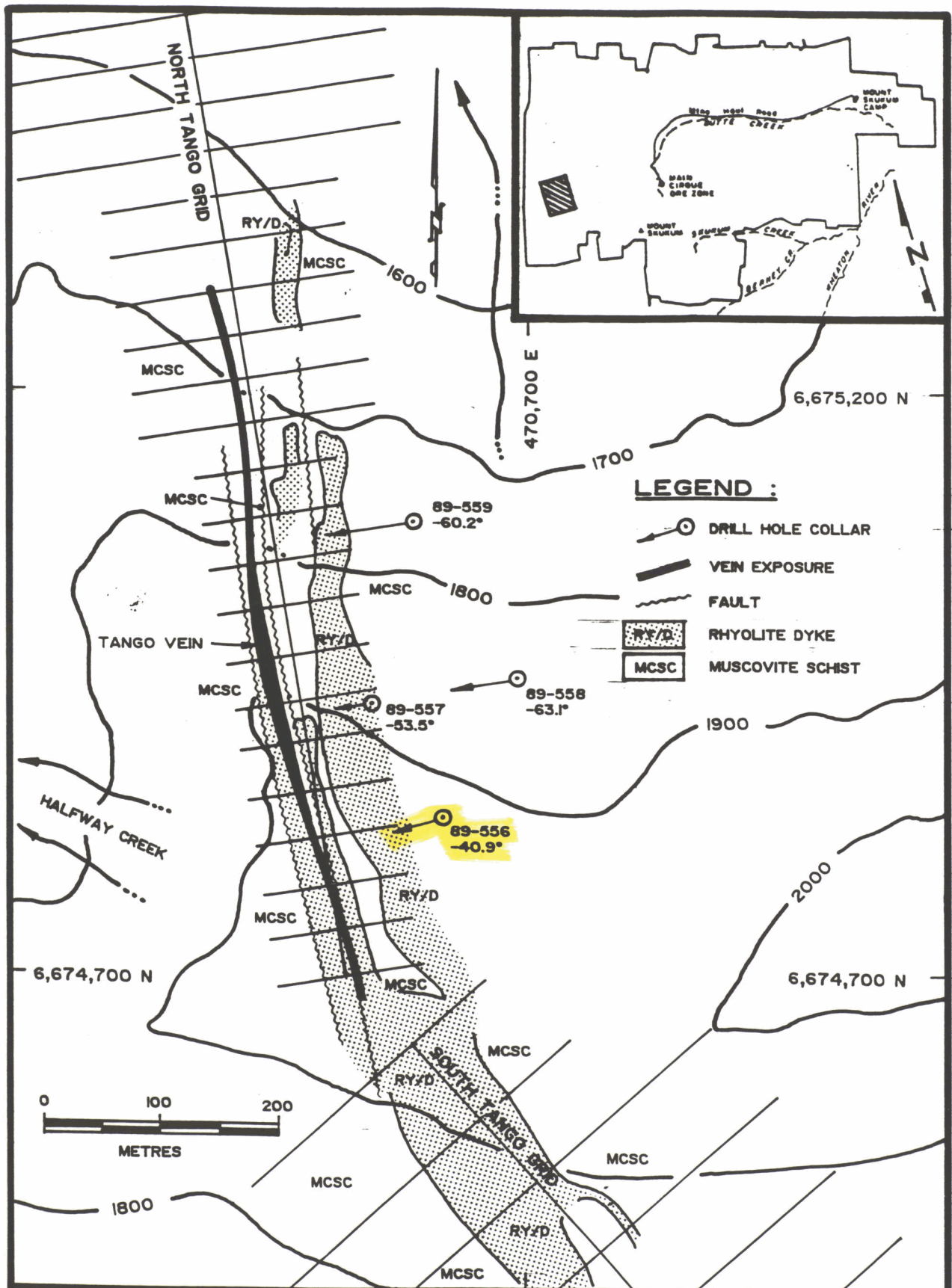
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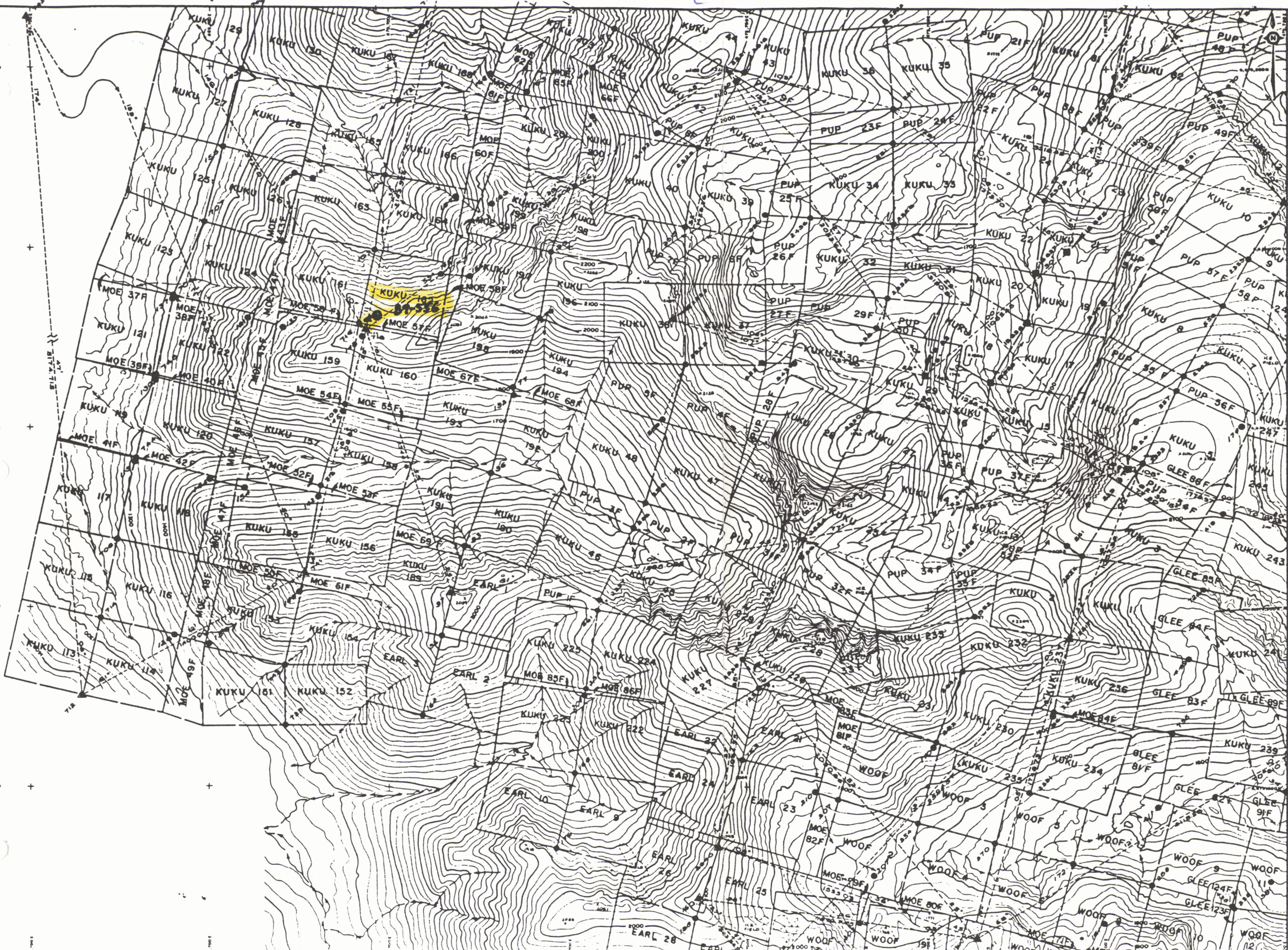
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LOCATION OF TANGO VEIN, GRIDS AND 1989 DRILL HOLE COLLARS.

FIGURE 3.8.3



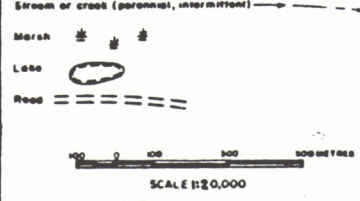
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6	5	4
1	0	3
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ENLARGEMENT OF AREA

Q	P	O	M	M	
R	E	D	C	L	
S	F	A	B	K	
L	S	G	H	A	
U	V	W	X	Y	

- SYMBOLS
- Rock outcrop, area of outcrop, float
 - Geological boundary (defined, inferred)
 - Bedding (horizontal, inclined, vertical, overturned, dip unknown)
 - Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)
 - Lineation, line of minor folds (horizontal, inclined, vertical)
 - Drag-fold (arrow indicates plunge)
 - Fault (defined, ungrouped)
 - Fault (inclined, vertical, reverse movement)
 - Surface point (horiz., inclined, vert., dip unknown)
 - U/G point (horiz., inclined, vert., dip unknown)
 - Syncline (defined, approximate)
 - Anticline (defined, approximate)
 - Anticline and syncline (overturned)
 - Imprecise (weak, moderate, strong)
 - Vein (inclined, vertical, dip unknown)
 - Zone of alteration
 - Rock sample, # 5504, 516
 - Assay Au, Ag ounce/ton
 - Trench
 - Adit or tunnel
 - Rock dump or tailings
 - Shaft, raise, winze
 - Diamond drill hole (showing section, leaving section) (on section / plan)
 - Contours 2500
 - Stream or creek (perennial, intermittent)
 - Marsh
 - Loose
 - Road



MOUNT SKUKUM GOLD MINING CORP.

TANGO DRILLING

89-556

Project Name MT SKUKUM Project No. 1020
 Latitude _____ Longitude _____
 Mining Division WHITEHORSE, NTS 102 R/3
 To accompany a report by _____
 Alpha No. _____ Drawing No. 161-18 (3)
 Date DECEMBER, 1986 Rev. No. 0.1.7.8

DEPTH (MET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY	
					Sil A	Prop B	Phy C	Arg D	Po E			
0-3.05		OIB		OIB								
3.05-10.51		RYID		RYID dark grey green grading into buff green at ~ 3.5m. Flow banded with white carbonate blebs up to 2mm (1%) limonitic fractures with local pyrolusite up to 1% diss f.g py subhedral, average fracture orientation 30° TCA, 5-10 /m								
10.51-12.19		RYID		LOST mismatch at 11.58 and 12.19 with 5cm of RYID as above btwn blocks, core fragments ground								
12.19-18.34		RYID	LOST	RYID same as above, grey green becomes more green ~ 12.5m (orange green) flow banded rhyolite till 14.6 m where it becomes massive light green RYID. 1mm coating of limonite on fractures with local pyrolusite, 1-3% diss py local dark green (chloritic) fragments up to 1cm throughout								
18.34-19.33		RHBY		RHBY mottled grey green breccia with 70% rhyolite fragments up to 2cm (average 8mm) with light tan rims up to 2mm, 10% dark green (chloritic RYID fragments?) and 10% qtz? intensely silicified bleached rhyolite fragments? contacts irregular, minor limonite								
19.33-21.06		RYID		RYID same as above, 1% f.g diss py								
21.06-22.99		RYID		bright yellow orange limonitic RYID with weak argillic alteration local intense pyrolusite coating fractures up to 1% local porosity where py has been leached								
22.99-27.47		RYID		3% diss py where limonite is intense								
27.47-27.69		RYID		local pyrite concentrations up to 10% of coarse 3mm subhedral blebs patchy f.g py in chloritic veinlets, 135.82								
27.69-30.37		RYID		2mm porous qtz veinlet with 5% porosity (leached py?) main intensely rusty zone sheeted 2mm qtz veinlets 35° TCA								
30.37-36.92		RYID		btwn 36.37 - 36.92 m, local py (22%)								
36.92-42.19		RYID		inclined qtz f.g 50° continuous until 42.19 m								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	COMPOSITE ASSAYS
					oz / ton Au	oz / ton Ag	
18.42 - 19.27 RHBx 70% tan rhyolite fragments, 10% dark green rhyolite ± 10% qtz? silicified bleached RYID? Frags			0.85	18 457	0.0003	0.06	
22.98 - 23.98 RYID green limonitic rhyolite with 3-5% diss. pyrite and concentrated along hairline fractures			1.00	18 458	0.0002	0.02	
39.88 - 40.38 RYID clear qtz leading along discrete fractures up to 5% plus grey chl + f.g. sx? veinlets up to 2%			0.50	18 459	0.0006	0.02	

DEPTH (M)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY	
					S.1 A	Prop B	Phy C	Arg D	Po E			
40		RYID		19.33-47.21 RYID cont 40.78-40.82, 44.17-44.23 brecciated zones with 80% angular chryolite fragments up to 8mm in an intensely limonitic yellow-orange matrix which is crosscut by clear qtz stringers up to 1cm wide.								
45				43.83 - a fracture lined with qtz crystals up to 3mm open space filling, trace limonite								
50		RYID	RHBX	47.21-47.35 RHBX breccia of subangular chryolite fragments up to 5cm of a bright orange to green color, fragments are surrounded by coxal crystal growth (making a matrix, 10%), assoc with the crystal growth is 2% cuboidal specularite crystals up to 3mm wide								
55		RYID	RHBX	47.35-52.13 RYID drab green color with abundant sheeted qtz plus f.g. sx veinlets at random orientations, local intense limonite and argillic alteration, up to 3% f.g. diss py								
60				52.13-53.52 RHBX same as above with less qtz crystal growth, intense limonitic staining; manganese on fractures, local argillic alteration, 1% f.g. py								
65		RYID		53.52-67.45 RYID same as above with a decrease in veinlet intensity, local 'fragments' with up to 5% f.g. diss py up to 4cm surrounded by intense limonitic staining. 59.11-59.64 moderate argillic with yellow, green, and dusty pink clay on fractures up to 2mm								
70				62.65, 65.35-65.37, 66.16-66.19 fractures 40° TCA with limonitic envelopes and coxal qtz crystal growth up to 2mm, open space filling pervasive sericite is patchy making core mottled btwn 72.03-72.76.								
75				72.67-72.71, 72.77-72.79, 72.86-72.87 fractures 40° TCA with brecciated envelopes up to 2cm in a qtz matrix with RYID limonitic fragments (angular) up to 3mm and coxal qtz crystal growth up to 2mm coated with limonite								
80				74.22-87.45 drab green (non limonitic) RYID with hairline convoluted by veinlets at random orientations ~2% total py also banded with 2% coarse grained py								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	COMPOSITE ASSAYS
					Au	Ag	
47.21-47.35 RHBX breccia of rhyolite fragments surrounded by coarse crystal (qtz) growth up to 10% plus subradial sprucularite 2%			0.14	18254	0.0004	0.15	
50.60-50.97 RYID intense silicification with abundant sheeted qtz + f.g. sx veins at random orientations, 3% f.g. diss py (weak bx)			0.37	18255	0.0003	0.10	
SEE BELOW							
58.46-58.65 RYID yellow green with abundant pyroclastic, one 4x1cm bleb of rhyolite containing 10% f.g. py diss rimmed by limonite up to 3cm			0.19	18460	0.0004	0.10	
66.08-66.28 RYID with 10% diss py, qtz/limonite/hematite stringer 2-3cm wide 20° TCA with carapynstr			0.20	18461	0.0006	0.03	
52.13-52.86 RYID weak argillic, intense limonite, 2% diss py leached out local bx zones up to 2cm as clear qtz matrix around rhyolite frags, white cockade qtz str up to 1% at various orientations			0.73	18462	0.0007	0.06	

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DEPTH (METERS)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY
					Sil A	Prop B	Phy C	Arg D	Po E		
53.52-87.45		RYID		RYID cont Flow banding ~ 35-40° TCA with pyritic veinlets and blebs associated with calcite, btwn 83.51-83.52/10% diss.py up to 1mm rhyolite becomes more mafic and bands become only 1mm apart towards 87.45. local brecciation							
87.45-87.61		GOUGE		GOUGE dark grey clay gouge in contact 50° TCA FW 70° TCA, 1% visible f.g. py							
87.61-88.30		RHBX VNBX		RHBX sheared and brecciated rhyolite with a limonite matrix (40%) and subangular rhyolite fragments up to 2cm, 2% porosity							
88.30-88.88		VNBX		VNBX 50% qtz fragments up to 6cm in a sheared rhyolite breccia matrix, 2% very f.g. py, limonite on fractures							
88.88-99.25		RYID		RYID drab green rhyolite with rusty fractures and abundant qtz + sv veinlets at random orientations with local 2cm brecciated areas, large zones of moderate argillic (limonitic) alteration							
99.25-101.74		MCSC		MCSC dark green foliated schistose with 1% garnet porphyroblasts (augens) and local limonitic fractures 101.73-101.29m rusty porous (3% porosity) zone with 10% milky white qtz fragments up to 1cm, 2% py FW contact 45° TCA.							
101.74-108.41		RYID		RYID same as above 3% f.g. diss py							
105.74-108.41		MCSC		intensely silicified rhyolite with up to 15% cockade qtz stringers and veinlets at random orientations and bleached milky yellow patches, veinlets + stringers have generally 1% porosity with local 5% open space lined with limonite-qtz crystals (cm)							
108.41-111.13		VNBX		MCSC dark grey green schist which is weak-moderately sheared with patches up to 10% gouge in local zones (≤ 4cm wide), discontinuous limonite banding, 110.79-111.13 intensely limonitic contact with Tango vein							
111.13-114.79		VNBX		VNBX TANGO VEIN, brecciated with fragments up to 15cm wide of a dark grey - fragment are brecciated							

PAGE 6 OF 10		PROJECT: TANGO					HOLE No. 89 556		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
					Au	Ag			
87.45-87.61 Goose dark grey clay fault gouge with trace limonite, 1% diss pyrite			0.16	18256	0.0006	0.05			
87.61-88.30 RHBX sheared and brecciated rhyolite with a limonitic matrix and subangular rhyolite fragments up to 2cm, 2% f.g py diss throughout			0.69	18257	0.0014	0.09			
88.30-88.88 VNBX brecciated qtz vein, 50% qtz fragments up to 6cm wide with limonitic fractures, in sheared rhyolite matrix ~ 2% f.g diss py			0.58	18258	0.0011	0.11			
105.97-106.97 RYID intensely silicified with up to 15% qtz str having a maximum of 5% open space with cockade qtz crystals coated with limonite 3% f.g diss py			1.00	18259	0.0084	0.13			
106.97-107.97 RYID same as # 18259, average fracture orientation 50-60° TCA			1.00	18260	0.0052	0.09			
110.13-111.13 MCSC HW to Tango vein, sheared 40° TCA with an intensely limonitic EW 45° TCA local qtz veinlets thin shist layers up to 6mm wide up to 10% clay fault gouge local concentrations			1.00	18261	0.0021	0.02			

1 20 5 130 5 140 5 150 5 160	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY	
					Sil A	Prop B	Phy C	Arg D	Po E			
				111.13-114.79 VNBX ^(hydrolic bx?) conit containing clasts of qtz and a lighter grey phase plus hematite blebs and local f.g py blebs up to 11 mm wide; qtz is rockade to chalcidonic and clear to milky white to yellowy orange in color. Abundant vugs lined with drusy qtz ± limonite, porosity up to 5% locally, max vug size 3cm FW contact 45° TCA								
				114.79-139.62 RYID buff tan color (limonitic rhyolite) with trace calcite in vugs and on fractures, 15% qtz stringers (upto 2cm) and rockade veinlets at random orientations, 115.55-115.63, 115.75-115.79 portions of VNBX tango vein as fragments. 5% cliss ± locally concentrated py in RYID local white → yellow argillic alteration, 2% pyroclasts at 120.20-120.35 on fractures								
				125.23-125.27 brecciated zone with qtz calcite stringers and chlorite matrix around angular RYID fragments up to 1cm wide								
				139.62-140.00 SKQC completely silicified with 80% qtz in HW portion (thru 139.79m) and 30% qtz in FW portion. This FW portion consists of sheared McSc fragments around oogen like qtz fragments up to 2cm wide HW 60° TCA FW 85° TCA								
				140.00-144.89 RYID same as above 143.11-144.58 fractured sheared zone with 20% McSc fragments up to 3cm wide, local white clay and brecciation 144.82-144.89 7cm milky white limonite qtz str								
				144.89-146.02 McSc same as above, local brecciation and 8cm fragments of RYID ~20% gouge								
				146.02-147.37 GOUGE steel grey colored with 10% intensely sheared McSc, local limonite staining								
				147.37-148.00 McSc intensely sheared 30% gouge								
				148.00-149.05 GOUGE same as above 5% McSc								
				149.05-200.68 McSc same as above 150.26-150.60								

RYID
 SKQC
 RYID
 McSc
 GOUGE
 McSc
 GOUGE
 McSc

PAGE 8 OF 10		PROJECT: TANGO					HOLE No. 89556			
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%			COMPOSITE ASSAY
					oz	ton				
					Au	Ag				
111.13-112.13 VNBX TANGO VEIN brecciated stockwork with 80% qtz - both chalcedonic and rock coated with limonite, fragments are dark grey MSC? plus chalcedonic angular fragments up to 4mm wide local hematite: 1% visible disspy			1.00	18262	0.0063	0.04				
112.13-113.13 VNBX TANGO VEIN same as # 18262 except fragments are up to 13cm wide and qtz is milky yellow (carbonate?), 5% porosity qtz makes up to 70% of interval			1.00	18263	0.0070	0.13				
113.13-113.96 VNBX TANGO VEIN same as # 18263 except qtz makes up 80% of interval, fragments contain tetrahedral inclusions up to 5mm wide fractures coated with orange/pink clay? (#1mm)			0.83	18264	0.0038	0.12				3.66m @ 0.0056, 0.10 PM (BHB+)
113.96-114.79 VNBX TANGO VEIN same as # 18264, interval more chalcedonic than above, 5% porosity FW contact 45° TCA			0.83	18265	0.0041	0.12				
114.79-115.79 RYID FW ID TANGO VEIN, pervasive limonite with 15% qtz stringers and veinlets portions of Tango vein btwn 115.53-115.63 & 115.75-115.79, 5% py			1.00	18266	0.0078	0.13				
115.79-116.79 RYID same as # 18266, pervasive limonite, 3% py intensely silicified, abundant stringers * SEE PAGE 10*			1.00	18267	0.0035	0.09				
39.62-140.00 SKQC intensely silicified stockwork of rhyolite with MSC fragments, 10% f.g.py			0.38	18268	0.0016	0.12				
143.14-144.14 MSC bx with 10% qtz fragments plus 5% py			1.00	18465	0.0015	0.03				

TANGO VEIN INTERSECTION

D (M...ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VENULET INTENSITY	
					Sil A	Prop B	Phy C	Arg D	Po E			
160				149.05-200.68 McSc cont qtz fragments up to 1 cm with 5% green fluorite as a distinct veinlet crosscut by 1mm py veinlets, py ≈ 5%;								
165				150.60-159 m local brecciated zones with diss py concentrations up to 5% as veinlets and blebs, limonitic fractures, rare open space (vugs) lined with limonitic qtz crystals								
170				average foliation 40° TCA, 157.32-157.71 fractured with intense limonite staining with 30% coarse euhedral py cubes								
175		MCSC		up to 4mm in 3cm blebs lining open space								
180				160.44-165.65 m weak shearing in mica schist with local qtz sweats up to 3cm - bull white qtz str with no open space or pyrite, minor clay gouge (≤ 5%)								
185				foliation ~ 70-80° at 168.5 m								
190				175.41-175.53 intensely sheared McSc with 40% white clay gouge, local limonite								
195				176.71-178.13 zone with numerous milky white qtz sweats up to 3cm wide and an average of 65° TCA								
200				190.86-200.00 intense qtz sweats ranging from minute to 0.33m with thin average 2-3cm, schist in btwn is well foliated 70-80° TCA, local limonite, Qtz sweats 193.02-193.30, 194.19-194.39, 195.14-195.47								
205				200.68-201.47 AN/D medium green colored with 10% plagioclase phenocrysts in a aphanitic matrix, indistinct contacts								
		AMD										
		E.O.H. 201.47m (641')		E.O.H 201.47m								

PAGE 10 OF 10		PROJECT: TANGO					HOLE No. 89 556		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAY	
					oz	ton			
					Au	Ag			
146.02 - 147.02 Goussé steel grey color with 10% sheared McSC fragments			1.00	18269	0.0031	0.06			
148.05 - 149.05 Goussé same as # 18269 with 5% McSC fragments			1.00	18270	0.0012	0.03			
150.26 - 150.60 McSC with 10% qtz fragments, 5% green fluorite veinlet & 5% py diss concentrated in veinlets ≤ 1mm			0.34	18271	0.0067	0.10			
157.34 - 157.71 McSC with 30% coarse py euhedral cubes on fractures coated with limonite			0.37	18272	0.0009	0.08			
159.23 - 159.41 Mcsc qtz sweat steel blue grey with local limonite along fractures * see below			0.18	18466	0.0002	<0.02			
195.14 - 195.47 McSC quartz sweat in schist, bill white qtz with rare local limonite no visible sx HW 60° TCA			0.33	18273	0.0007	0.06			
* from pg 8*									
125.06 - 125.46 RYID 5mm cockade qtz stringers abundant - 125.24 - 125.27 zone bx in a black ch ± f.g.sx matrix rimmed by chalcidonic selvages up to 8mm wide			0.40	18463	0.0135	0.07			
138.52 - 138.70 RYID with a cockade qtz str btwn 138.64 - 138.68 up to 3% py concentrated in a veinlet ≤ 3mm at core of str * from below *			0.18	18464	0.0046	0.06			
91.63 - 192.09 Mcsc with 40% qtz sweets			0.46	18467	<0.002	<0.02			
193.14 - 193.48 Mcsc with 85% qtz sweets // foliation 40° TCA			0.34	18468	0.0002	0.02			
194.18 - 194.67 Mcsc with 65% qtz sweets			0.49	18469	<0.002	<0.02			

DI 1 (ME...CS)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	

HOLE SUMMARY

89 556 was drilled to intersect the Tango vein structure at depth and to the north of DDH 88 426

The majority of the hole consists phyllic altered RYID and Msc which is dominantly well foliated.

The target TANGO vein was intersected at 111.13 - 114.79 m. The Tango Vein is comprised of a vein breccia of limonitic rockade and chalcedonic qtz, and re-brecciated heterolithic fragments up to 15cm wide. Abundant vugs, up to 2cm wide, are commonly lined with hematitic drusy qtz, give the intersection an overall porosity of ~5%. The vein is ~80% qtz, 20% fragments.

A SKQC section was encountered btwn 139.62 - 140.00m. A substantial fault occurs (as grey gouge) btwn 146.02 - 147.37, and 148.00 - 149.05m

The true thickness of the VNBX intersection was calculated to be 3.48m

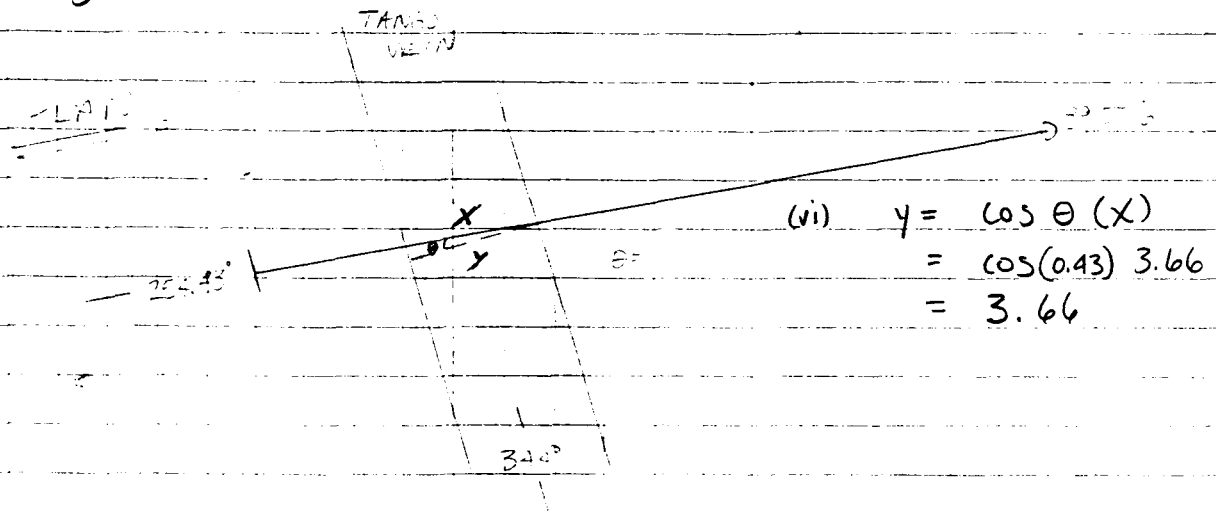
(i) strike of Tango vein 344°

(ii) strike of 89 556 254.43

(iii) \perp to strike of vein 254°

(iv) angle $\theta = (ii) - (iii) = 0.43^\circ$

(v) core length of intersection $= 3.66 \text{ m} = x$

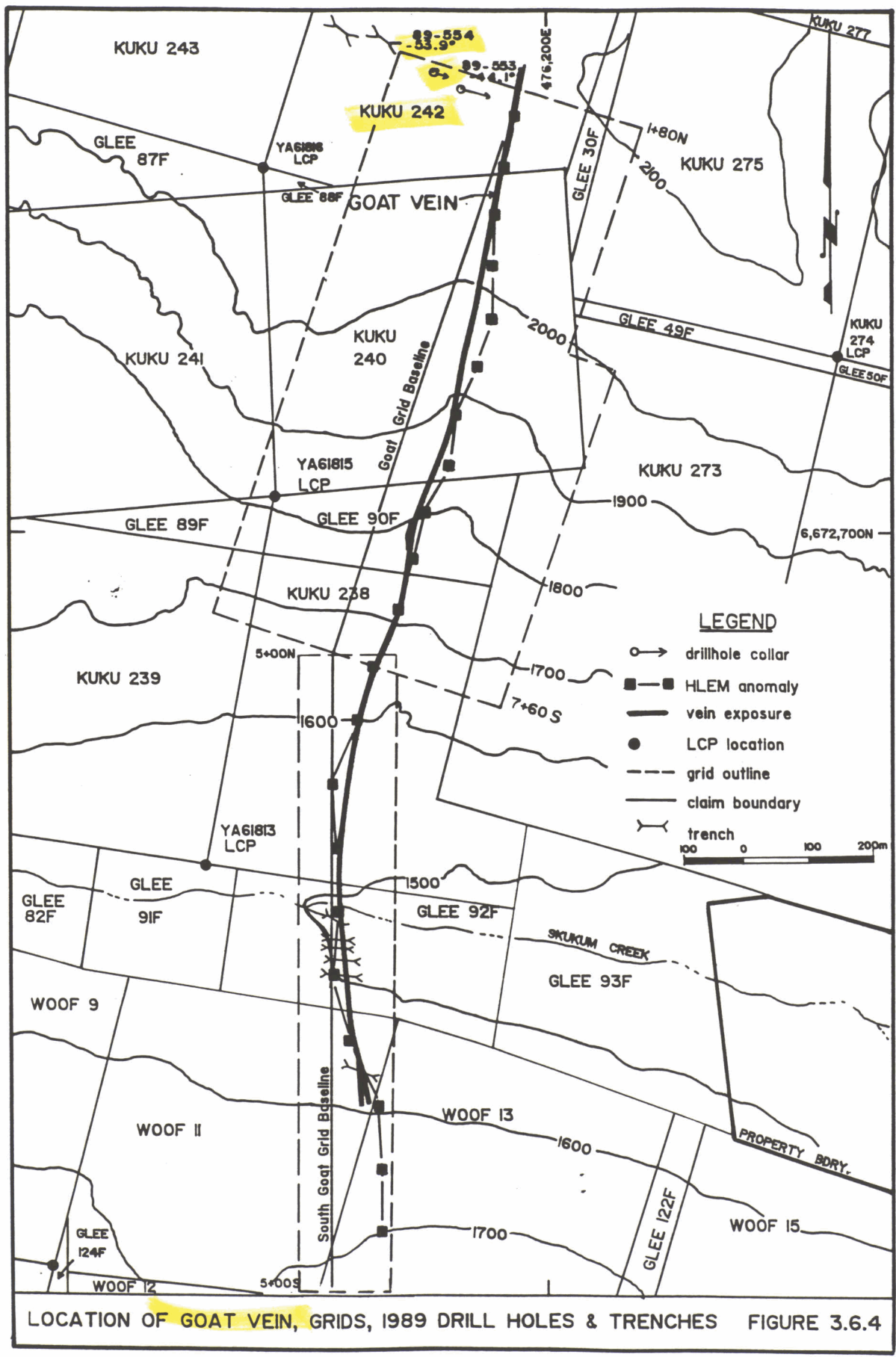


(vii) dip of tangovein $= 69^\circ$

(viii) dip of 89 556 $= 39^\circ$

(ix) y from vi $= 3.66$

$$\begin{aligned} TT &= \cos \beta (y) \\ &= \cos 18 (3.66) \\ &= \underline{\underline{3.48 \text{ m}}} \end{aligned}$$



LOCATION OF GOAT VEIN, GRIDS, 1989 DRILL HOLES & TRENCHES FIGURE 3.6.4

MOUNT SKUKUM GOLD MINING CORP.

MINERALS SECTION

DRILL LOG

PROJECT GOAT VEIN	GROUND ELEV. 2084.64
HOLE No. 89 554	BEARING 106.19
LOCATION NORTHING 73427.13 EASTING 76020.41	DIP -53 88
LOGGED BY J. BLACK	TOTAL LENGTH 256.79 * SEE COMMENTS
DATE JULY 4 189	HORIZONTAL PROJECT 167.3297*
CONTRACTOR ADVANCED DRILLING	VERTICAL PROJECT -194.5151*
CORE SIZE NQ → BQ	ALTERATION SCALE absent slight moderate intense VEINLET INTENS: 0-5/m 5-10/m 10/m - STW STWK
DATE STARTED JULY 2 189	TOTAL SULPHIDE SCALE traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED JULY 11 189	LEGEND
DIP TESTS 206' (62.79) 51 396' (120.70) 49 600' (182.88) 47 796' (242.62) 50 206' (62.79) 51 396' (120.70) 49 600' (182.88) 47 836' (254.81) 48	
COMMENTS * NQ → BQ hole drilled to 247.19 m where bad ground lead to the hole being cemented. NQ was again reamed down to 234.09 m where it deviated from initial hole. BQ was drilled in this new hole to 254.81 after intersecting the Goat Vein at 243.84 m THE CORE IS STORED IN PERMANENT RACKS AT THE MT. SKUKUM CAMP.	

DDH No..... 89-554
 NORTHING... 73427.130
 EASTING... 76020.410
 ELEVATION.. 2084.64
 BASELINE... GOAT000
 TOTAL HORZ 159.5912
 TOTAL VERT -188.5437

DRILL CALC for

INITIAL HOLE →
 CEMENTED BOTTOM OF HOLE
 & HOLE DEVIATED WHEN
 NQ REAMED BACK DOWN

LONGITUDINAL PLOT

PLAN PLOT

SECTION PLOT

DDH No..... 89-554
 NORTHING... 73427.130
 EASTING.... 76020.410
 ELEVATION.. 2084.64
 BASELINE... GOAT000
 TOTAL HORZ 159.5912
 TOTAL VERT -188.5437

DRILL CALC for

INITIAL HOLE →
 CEMENTED BOTTOM OF HOLE
 & HOLE DEVIATED WHEN
 NQ REEMED BACK DOWN

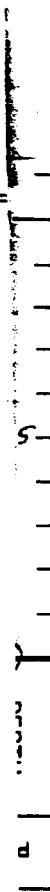
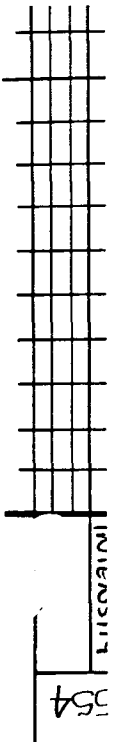
PLAN PLOT			LONGITUDINAL PLOT						
LENGTH	AZIMUTH	DIP	HORZ	ELEV	DIST FROM BL	SECTION	SEC OFFSET	DESCRIPTION	
0.00	106.19	-53.88	0.00	2084.64	142.00	W	7.0 N	10.02 S	COLLAR
31.40	106.19	-51.00	18.51	2059.28	123.51	W	7.0 N	9.43 S	DIP CHANGE
91.74	106.19	-49.00	56.49	2012.38	85.55	W	7.0 N	8.24 S	DIP CHANGE
117.03	106.19	-49.00	73.07	1993.30	68.97	W	7.0 N	7.71 S	HW-VNQC
117.18	106.19	-49.00	73.17	1993.18	68.87	W	7.0 N	7.71 S	FW-VNQC
151.79	106.19	-47.00	95.88	1967.05	46.17	W	7.0 N	6.99 S	DIP CHANGE
212.75	106.19	-50.00	137.45	1922.48	4.62	W	7.0 N	5.68 S	DIP CHANGE
247.19	0.00	0.00	159.59	1896.10	17.51	E	7.0 N	4.98 S	END OF HOLE

DDH No..... 89-554
 NORTHING... 73427.130
 EASTING.... 76020.410
 ELEVATION.. 2084.64
 BASELINE... GOAT000
 TOTAL HORZ 167.3297
 TOTAL VERT -194.5151

DRILL CALC for

DEVIATED HOLE →
 Assume dip of 47
 til 234.09m

PLAN PLOT			LONGITUDINAL PLOT						
LENGTH	AZIMUTH	DIP	HORZ	ELEV	DIST FROM BL	SECTION	SEC OFFSET	DESCRIPTION	
0.00	106.19	-53.88	0.00	2084.64	142.00	W	7.0 N	10.02 S	COLLAR
31.40	106.19	-51.00	18.51	2059.28	123.51	W	7.0 N	9.43 S	DIP CHANGE
91.74	106.19	-49.00	56.49	2012.38	85.55	W	7.0 N	8.24 S	DIP CHANGE
151.79	106.19	-47.00	95.88	1967.05	46.17	W	7.0 N	6.99 S	DIP CHANGE
208.49	106.19	-47.00	134.54	1925.60	7.53	W	7.0 N	5.77 S	DIP CHANGE
242.91	106.19	-47.00	159.02	1900.42	15.94	E	7.0 N	5.03 S	HW-VNQC (LOST 2.55)
244.45	106.19	-48.00	159.07	1899.30	16.99	E	7.0 N	4.99 S	DIP CHANGE
247.14	106.19	-48.00	160.37	1897.30	18.79	E	7.0 N	4.94 S	FW-VNQC (LOST 2.55)
256.79	0.00	0.00	167.33	1890.12	25.24	E	7.0 N	4.73 S	END OF HOLE



534

DEPTH (MET)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY	LITHO INTENSITY
					Sil A	Prop B	Phy C	Arg D	Pb E			
0-5.82		OIB		OIB								
5.82-17.20		OIB		ATBK dark green porphyritic, weakly magnetic core with brecciated with darker green andesitic fragments upto 3cm plus hematite fragments averaging ~1cm and upto 6cm intense prop alteration, ~30% plag phenocrysts								
5.82-6.88		OIB		fragments ~7mm average size of andesite and hematite; chlorite blebs weakly aligned 40° TCA, 2 chl veinlets 50° TCA								
6.88-6.90		OIB		brecciated silicified zone with 5% qtz fragments upto 6mm with hematite frags upto 1cm wide in a felsic fg matrix								
6.90-17.20		OIB		larger plag phenocrysts ~3mm upto 15% with random 3-6cm fragments of andesite ± hematite with abundant sp at 7.65-7.71, 9.24-9.37, intensely silicified zones occur 9.72-11.60, 13.42-14.12, 16.17-16.27 where the matrix is generally fine grained with fewer but larger hematite (~5-7cm) fragments								
16.77-16.84		OIB		runy green banded chlorite ± epidote								
17.20-18.78		R4/D		dusty purple pink color with 1% rusty vugs and 2% diss calcite blebs patchy flow banding 45° TCA, the contact is sheared 35° TCA; intense prop altered								
18.78-18.90		LOST		0.12m core missing								
18.90-32.80		R4/D		same as above, patchy flow banding 22.37-23.27 moderate argillic alteration and weak prop thylite with pyroclastic frags								
31.98-32.80		R4/D		sheared thylite with convoluted chlorite veinlets with sheared fragments of PPHN enclosed within upto 3cm								
32.80-34.97		ATBK		same as above with andesite fragments upto 15cm ± hematite and minor crude alignment of phenocrysts 35° TCA, plus circles of grainy sediment plus fragments of andesite								
34.97-35.26		GOUGE		unconsolidated intense argillic fragments of PPHN plus 10% white carbonate, minor hematite nodules								
35.26-35.4		PPHN		PPHN								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%		COMPOSITE ASSAYS
117.03 - 117.18 VNQC chalcidone qtz vein, fractured with fluorite moulds up to 10%, trace calcite abundant white clay gouge on fractures			0.15	18188	0.0011	0.053			

PAGE 10 OF 18		PROJECT: GOAT VEIN					HOLE No. 89 554		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
					oz/ton Au	oz/ton Ag			
189.97-190.72 PPAN with 21, sorted sheeted qtz veinlets, most 1-2mm wide but btwn 190.68-190.72 the fracture is coated with coarse qtz crystals open space filling, trace calcite 1% fg py causing rusty fragment selcages, minor leucosine			0.75	18189	0.0007	0.06			
196.90-197.43 PPAN with a qtz veinlet btwn 197.03-197.09 plus 8 qtz and calcite sheeted veinlets 60°TA plus random orientations			0.53	18190	0.0010	0.03			
197.43-198.43 PPAN with a qtz veinlet btwn 197.43-197.54 plus numerous striated veinlets 30°TA of calcite			1.00	18191	0.0003	0.04			

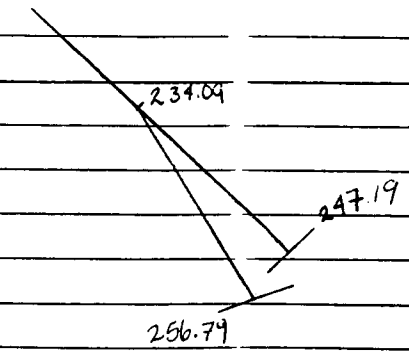
PAGE 12 OF 18		PROJECT: GOAT VEIN					HOLE No. 89 554		
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	COMPOSITE ASSAYS	
					Au	Ag			
200.93-201.43 PPAN with a 7cm qtz veinlet containing fluorite (purple), ~10% open space, veinlet appears ribboned with limonitic selvages			0.50	18192	0.0019	0.03			
206.47-206.62 ATBK with a ribboned qtz/calcite veinlet btwn 206.47-206.56 with 1% open space, chloritic/limonitic selvages			0.15	18193	0.0008	0.03			
209.71-209.98 PPAN with white veinlets btwn 209.72-209.75 and 209.87-209.98, the latter with 3% purple fluorite, intense prop PPAN with 10% green/yellow clay gouge			0.26	18194	0.0006	0.06			

DEPTH (M) (S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY
					Si A	Prop B	Phy C	Arg D	Po E		

230				219.46-245.61 PPAN CONT same as above with patches of hematite flooding in PPAN, otherwise prop altered								
				241.70-241.72, 241.77-241.78 drusy cockscomb qtz growth filling open spaces along a fracture, weak limonite along selvages, qtz crystals up to 4mm long, broken qtz fragments and individual 3mm crystals at 244.72m, core broken to rubble								
240		PPAN		245.61-245.97 LOST 0.36m core missing ground core pieces with abundant clay on fractures squeezing ground								
				245.97-246.89 PPAN same as above, hematite matrix								
245		LOST PPAN LOST		246.89-247.19 LOST 0.30m core missing BAD GROUND - try cementing hole but when reaming HQ back down, deviated from initial hole at 768' had to reduce to BQ again at 768' (234.09m)								

Log continues on
NEXT PAGE

new hole from 234.09m to 256.79 m




DEPTH (ML .S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY
					Si/A	Prop B	Phy C	Arg D	Po E		
233				new hole from 234.09-256.79 m							
235		PPAN		234.09-241.10 PPAN weak prop altered, weak-intense argillic, moderate to intensely fractured with patches of white clay up to 3mm, saussurized plagioclase phenocrysts, often altered to calcite, local pink clay on fractures. local gouge up to 3cm cementing PPAN fragments btwn 238.81-238.87, 239.62-239.80, 240.02-240.61.							
240		PPAN		238.92-238.93 1cm qtz cockscomb veinlets with crystals up to 4mm, inward growth							
		LOST PPAN		240.61-241.10 ground PPAN with 20% clay gouge cementing argillically altered PPAN							
		LOST PPAN		241.10-241.40 LOST 0.30m core missing							
		PPAN		241.46-241.60 PPAN dusty pink tan/oron andesite, ground							
		LOST PPAN		241.60-241.71 LOST 0.11m core missing							
		SKQC		241.71-241.82 PPAN ground as above with 3% qtz fragments with limonitized boxwork and cockscomb crystal growth							
		LOST SKQC		241.82-242.32 LOST 0.50m core missing							
245		SKQC		242.32-242.62 PPAN dark matrix with plag phenos altered to clay and white and limonitized clay on fractures							
		LOST SKQC		242.62-242.77 LOST 0.15m core missing							
		VNQC		242.77-242.91 PPAN badly ground with pieces of prop altered and limonitized PPAN with 2% qtz fragments							
		LOST VNQC		242.91-243.08 LOST 0.17 m core missing							
		SKQC		243.08-243.25 SKQC 60% pieces of badly ground core which are rusty with clear qtz veinlets (up to 20%) in a silicified tan matrix 40% black PPAN fragments with 3% hematite							
250		PPAN		243.25-243.64 LOST 0.39m core missing							
		PPAN		243.84-243.94 VNQC 50% pieces of brecciated white and clear qtz fragments in breccia up to 4mm, minor calcite in matrix; 50% PPAN fragments as above.							
		LOST PPAN		243.94-244.30 LOST 0.36m core missing							
		SKQC		244.30-244.90 SKQC intensely silicified ground fragments with 40% qtz veinlets up to 3mm at random orientation as well as qtz fragments, 40% clay gouge cementing SKQC fragments, rusty							
		LOST SKQC		244.90-245.67 LOST 0.77m core missing							
		SKQC		245.67-246.22 SKQC 20% pieces of prop altered							

ground or missing core

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%		COMPOSITE ASSAYS
					0210n Au	0210n Ag	
238.80-239.80 PPAN with var 1cm qtz stringer btwn 238.92-238.93m and local clay gouge zones btwn 239.56-239.80			1.0	18195	0.0008	0.02	
240.10 - 241.10 PPAN with local arg altered zones and clay gouge up to 20% cementing fragments			1.0	18196	0.0006	0.03	
241.71 ^o - 241.82 PPAN ground with 3% qtz fragments - limonitized boxwork (porosity ~1%), weak arg alteration			0.11	18197	0.0006	0.06	
242.32 - 242.62 PPAN dark matrix with limonitic clay on fractures, trace qtz			0.30	18198	0.0003	0.03	
242.77 - 242.91 PPAN badly ground, qtz fragments up to 2%			0.14	18199	0.0005	0.01	
243.08 - 243.25 SKQC 60% pieces of qtz / 40% PPAN pieces - badly ground; up to 20% qtz veinlets in a silicified matrix			0.17	18200	0.0002	0.01	
243.84 - 243.94 VNQC 50% bx qtz fragments / 50% PPAN fragments bx fragments up to 4mm, minor calcite			0.10	18201	0.0004	0.03	
244.30 - 244.90 SKQC ^{rusty} intensely silicified ground fragments with 40% qtz veinlets up to 3mm, <1% clay gouge			0.60	18202	0.0007	0.05	
245.67 - 246.22 SKQC 30% qtz veinlets up to 3mm wide in a mottled limonitic matrix which is brecciated			0.55	18203	0.0014	0.03	
246.22 - 246.38 VNQC ground core of limonitized ribbon vein (at least two stages of qtz injection), porosity is <1%			0.16	18204	0.0014	0.01	

INTERSECTION (H) 0.0538 / 4.27m
GOAT VEIN

PAGE 17 OF 18		PROJECT: GOAT VEIN				HOLE No. 89554						
DEPTH (M :S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	VEINLET INTENSITY	
					Si A	Prop B	Phy C	Arg D	Po E			
				245.67-246.22 SKQC CONT in a mottled rusty (limonite) and dark grey fragments matrix with remnant arg. altered plagioclase phenocrysts up to 20%								
				246.22-246.38 VNQC ground core of limonitized pieces of ribboned qtz fragments (at least two injections of qtz )								
				246.38-246.58 LOST 0.20m core missing								
				246.58-246.68 VNQC extremely ground core, same as above, intense limonite								
				246.68-247.14 LOST 0.46m core missing								
				247.14-256.79 PPAN 247.14 - 247.35 intense limonite giving andesite a buff bleached look with faint arg. altered phenocrysts up to 10%								
				247.35-255.88 narrow arg. altered andesite								
				248.28-248.30 2cm white qtz stringer with a 5mm selvage of of rockcomb crystal growth on Hw and 5mm Fw selvage of layered yellow chalcidonic qtz 85°C/A, stringer contains 2.1cm fragments of host andesite. - hematite flooded								
				251.38-251.42, 251.43-251.435 brecciated qtz stringers with milky white fragments up to 1cm in a clear chalcidonic matrix 55°C/A, minor andesite fragments within vein								
				251.76-255.19 local rusty zones with with ~2% hairline to 2mm qtz veinlets at various orientation to core axis, weak arg alteration (local lime green clay on fractures)								
				255.19-256.79 hematitic grading to prop altered PPAN at 255.88m, saussuritized phenocrysts with a abundant calcite hairline veinlets at random orientations								
				E.O. # 256.79m								

PAGE 18 OF 18		PROJECT: GOAT VEIN					HOLE No. 89554				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%			COMPOSITE ASSAYS	
					oz/ton Au	oz/ton Ag					
246.58 - 246.68 JNQC intensely ground core, limonitized pieces of broken qtz fragments			0.10	18205	0.0002	0.04					
247.14 - 247.35 PPAV limonitized with 3/m 2mm qtz veinlets, andesite looks bleached, 20% plag phenocrysts			0.21	18206	0.0002	0.02					
247.35 - 248.35 PPAV hematitic maroon arg. altered andesite with 2 cm white qtz stringer of cockscomb qtz crystals and chalcedonic Fe silage			1.0	18207	0.0008	0.02					
251.38 - 252.38 PPAV limonitic with bleached arg. altered plagioclase phenocrysts, ~3/m qtz veinlets upto 2 mm wide at random orientations 251.38 - 251.42, 251.43 - 251.435 brecciated qtz stringers with milky white fragments in a clear chalcedonic matrix			1.0	18208	0.0003	0.01					

INTERSECTION

DF TH (ME. S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	

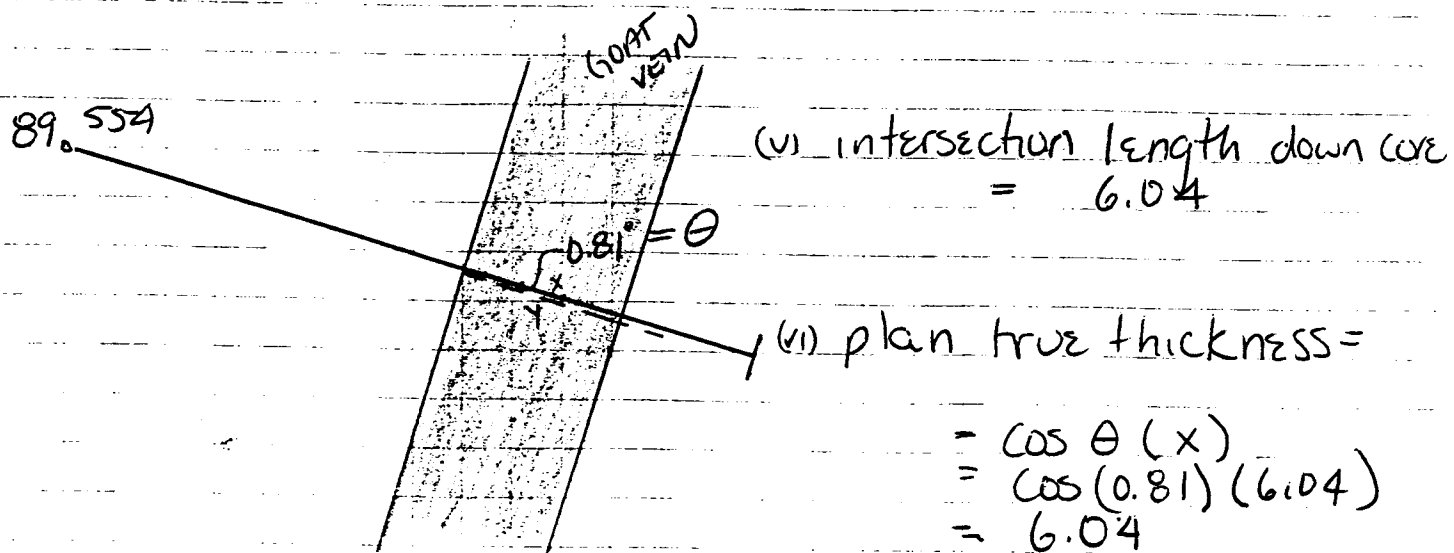
				HOLE SUMMARY						
				89 554 was drilled to test the GOAT vein structure at depth. The hole was a step out from 89-553. The hole consisted of prop altered PPAW with extensive sections of ATP and ATBK. A RYID was encountered between \approx 17-40m. As in 89553, numerous zones of intense argillic alteration were encountered - the most prominent being between \approx 210-225m. These clay zones resulted in drilling problems (squeezing ground) with NQ reducing to BQ at 216.41m. BQ was drilled to 247.19m where the hole was cemented. Upon re-seeing the NQ, the hole deviated at 234.09m. BQ was drilled in this new hole until 256.79m. Poor recovery resulted in 3.61 meters of core missing and extremely ground core through the GOAT vein intersection of 241.10-247.14. The vein fragments were rusty (limonitized) and either a stockwork of 20-40% clear qtz veinlets, or a drusy open space filling of rocks comb qtz crystal growth (VNQC). The true thickness of the intersection, (assuming all lost sections to be part of the intersection) was calculated to be 4.27m.						

(i) average strike of GOAT VEIN 017°

(ii) azimuth of 89554 106.19°

(iii) \perp to strike of vein 1.07°

(iv) angle btwn (iii) & (ii) = $\theta = 0.81$



(vii) average dip of GOAT VEIN 85°

(viii) dip of 89554 50°

(ix) y from (vi) = (6.04)

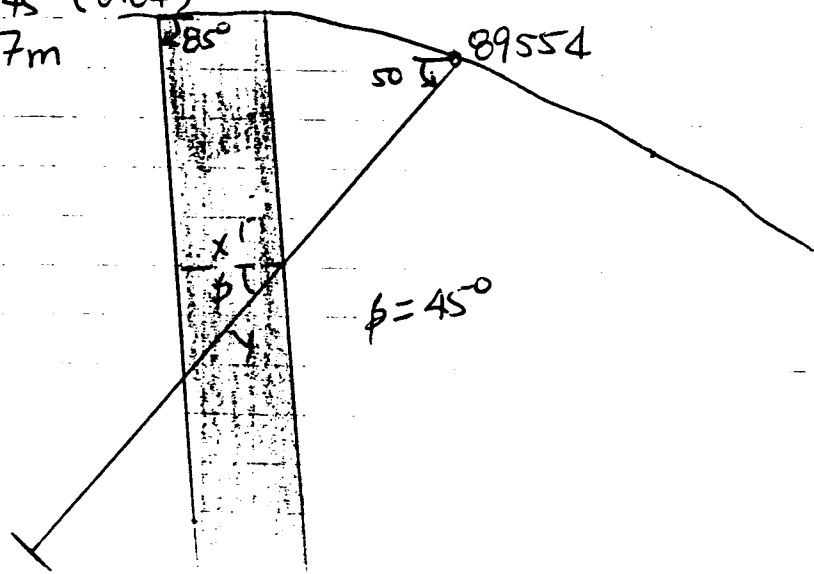
(x) true thickness = $\cos \beta (y) = x'$

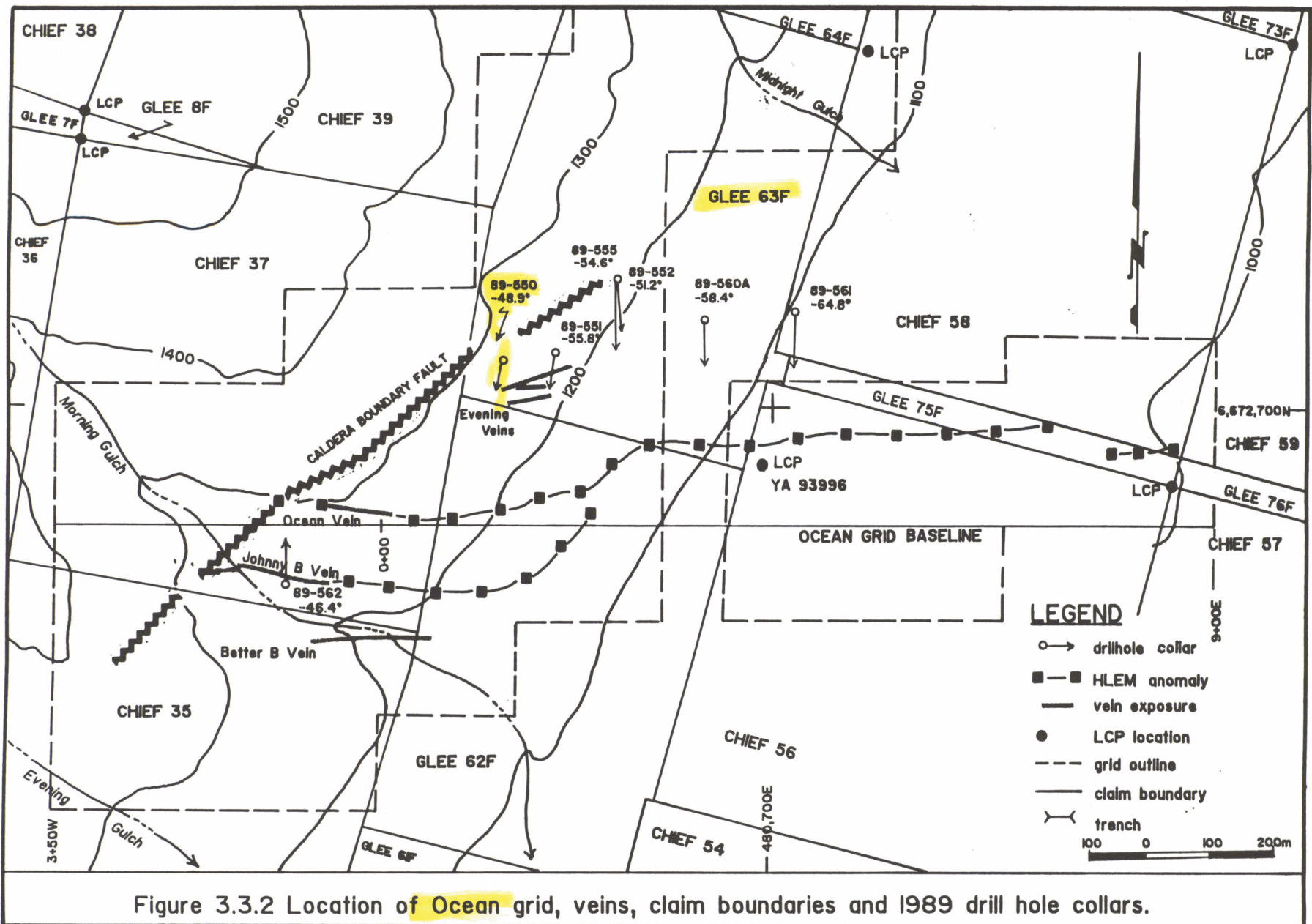
$$= \cos 45^\circ (6.04)$$

$$= 4.27\text{m}$$

True thickness

= 4.27m




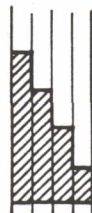


MOUNT SKUKUM GOLD MINING CORP.

40

MINERALS SECTION

DRILL LOG

PROJECT OCEAN VEIN	GROUND ELEV. 1279.037
HOLE No. 89 550	BEARING 193.03°
LOCATION NORTHING 72750.31 EASTING 80410.42	DIP -48.9°
	TOTAL LENGTH 242.93
LOGGED BY J BLACK	HORIZONTAL PROJECT 161.72
DATE JUNE 6 1989	VERTICAL PROJECT -181.25
CONTRACTOR ADVANCED DRILLING	ALTERATION SCALE  <ul style="list-style-type: none"> absent slight moderate intense
CORE SIZE BQ	
DATE STARTED JUNE 6, 89	TOTAL SULPHIDE SCALE  <ul style="list-style-type: none"> traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED JUNE 11 1989	
DIP TESTS 200' (60.96m) - 49° 400' (121.92m) - 48° 610' (185.93m) - 48° 797 (242.93m) - 47°	

COMMENTS
THE CORE IS STORED IN PERMANENT RACKS AT THE MT. SKUKUM CAMP.

LEGEND

LENGTH	AZIMUTH	DIP	HORZ	ELEV	DIST FROM BL	SECTION	SEC OFFSET	DESCRIPTION
0.00	193.03	-48.90	0.00	1279.04	176.91 N	5.0 E	6.92 E	COLLAR
29.06	193.03	-48.90	19.10	1257.14	158.30 N	5.0 E	2.61 E	HW->EVENING VEIN
29.22	193.03	-48.90	19.21	1257.02	158.20 N	5.0 E	2.59 E	PW->EVENING VEIN
30.48	193.03	-49.00	20.04	1256.07	157.39 N	5.0 E	2.40 E	DIP CHANGE
32.65	193.03	-49.00	21.46	1254.43	156.00 N	5.0 E	2.08 E	HW->EVENING VEIN
32.82	193.03	-49.00	21.57	1254.30	155.89 N	5.0 E	2.06 E	PW->EVENING VEIN
46.72	193.03	-49.00	30.69	1243.81	147.01 N	5.0 E	0.00 W	CL-SECTION
91.44	193.03	-48.00	60.03	1210.06	118.43 N	5.0 E	6.61 W	DIP CHANGE
130.45	193.03	-48.00	86.14	1181.07	92.99 N	4.0 E	13.00 W	X-SECTION
153.92	193.03	-48.00	101.84	1163.63	77.69 N	4.0 E	8.96 E	DIP CHANGE
213.31	193.03	-48.00	141.58	1119.49	38.98 N	4.0 E	0.00 W	CL-SECTION
214.43	193.03	-47.00	142.33	1118.66	38.25 N	4.0 E	0.17 W	DIP CHANGE
226.13	193.03	-47.00	150.31	1110.11	30.48 N	4.0 E	1.97 W	HW->GOUGE
226.40	193.03	-47.00	150.49	1109.91	30.30 N	4.0 E	2.01 W	HW->EVENING VEIN
226.40	193.03	-47.00	150.49	1109.91	30.30 N	4.0 E	2.01 W	PW->GOUGE
227.38	193.03	-47.00	151.16	1109.19	29.64 N	4.0 E	2.16 W	PW->EVENING VEIN
242.93	0.00	0.00	161.76	1097.82	19.31 N	4.0 E	4.55 W	END OF HOLE

PAGE 1 OF 55		PROJECT: OCEAN VEIN			HOLE No. 89						
DEPTH (METRES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					SIL A	PROP B	PHY C	ARG D	E		
0-2.35		OIB		OIB							
2.35-3.53		AN/D		AN/D							
3				intense propylitically altered andesite, <60% plagioclase phenocrysts up to 1mm in size <5% chlorite altered pyroxenes up to 3mm in size, 3mm calcite/qtz veinlets							
4			STRUCTURE	55° TCA at 2.6m in a 2cm zone where the veinlets are sheeted and scattered, minor limonite on fractures							
3.53-7.18		GRDR		GRDR							
6				equigranular feldspar & plag 3-4mm grains with abundant limonite giving rock a brownish color, scattered qtz veinlets 1-4mm, limonite blebs (replacing primary diss sx?) up to 2mm and coating fractures minor py in scattered veinlets chlorite along veins							
7.18-7.50		AN/D		AN/D							
8				as described above slightly more bleached, completely iron stained							
7.50-9.85		GRDR		GRDR							
				is above but becoming more bleached, sporadic 1-3mm chl-qtz veinlets with fig. diss py grains <1% calcite							

DEPTH (M)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					SIL A	PROP B	PHY C	ABX D	E	
10		AN/D		9.85-10.13 AN/D as above, minor limonite associated with fractures						
11		GRDR		10.13-11.10 GRDR same as above, minor limonite on fractures 10% intense phyllic alteration in fractures but sparsely distributed						
12		GRDR		11.10-11.34 AN/D as above with coarser 3-4 mm blebs of pyroxene crystals altered to chlorite, 1% fine diss. leucokene, minor hematite blebs assoc with chlorite clots and in 1mm veinlets						
13		AN/D		11.34-11.76 GRDR as above						
13		GRDR		11.76-12.85 AN/D as above with an increase in qtz feldspar veinlets ~ 7/m, local coarse up to 5mm blebs of py = 2% of rock						
14		AN/D		12.85-13.72 GRDR as above with a slight decrease in sulfide content						

DEPTH (ME. S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					SIL A	PROP B	PHY C	ART D	PO E	
22		GRDR		1940-22.22 GRDR CONIT veinlets with chlorite selvages 1mm-1cm, 5/m	█	█	█			
		AN/D		22.22-22.64 AN/D as above with 41% coarse py in fractures	█	█	█			
23		GRDR		22.64-24.38 GRDR as above	█	█	█			
		GRDR		24.38-25.38 AN/D as above	█	█	█			
24		GRDR		25.38-26.95 GRDR as above, 25.94*Fluorite veinlet* 3mm across	█	█	█			
		AN/D		26.95-27.13 AN/D as above with slightly more coarse (up to 3mm) euhedral diss py grains	█	█	█			
26		GRDR		27.13-27.53 GRDR intensely silicified and physically altered, qtz chl veinlets with py gr envelopes & fine granul diss py through- out rock	█	█	█			
		AN/D		27.53-28.58 AN/D slightly more abundant qtz euhedral diss py grains	█	█	█			

DF TH (ME. S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					SIL A	PROP B	PHY C	ARG D	E	
28		AN/D		27.53-28.58 AN/D CONT py < 2% persists, GRDR fragment enclosed and is 15 cm across						
29		GRDR		28.58-29.06 GRDR intense silicic and phyllic alteration, qtz veinlets with py on envelopes and selvages plus chlorite along selvages						
		VNSX		29.06-29.27 VNSX brecciated qtz vein with chlorite, and sx infilling 80% qtz, py < 3%, 7% chlorite minor sericite (evening vein??)						
30		GRDR		29.27-30.58 GRDR intensely silicified phyllic altered as above with py < minor qtz along qtz veinlets						
		AN/D		30.58-32.05 AN/D intense propylitic alteration with moderate calcite veinlets at random orientations up to 5mm wide, hematite coats fractures at 31.90m < 1% fine medium grained euhedral py mass through out interval						

PAGE 10 OF 55		PROJECT: OCEAN VEIN					HOLE No. 89 550				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	%	%	COMPOSITE ASSAYS	
					oz / ton	oz / ton	Cu	Pb	Zn		As
					Au	Ag					
28.58-29.06 - intense silicic and phyllic alteration qtz veinlets with py & gn < 2% or GRDR			0.33	18102	0.006	0.114	0.0157	0.1377	0.2560	0.0041	
29.06-29.22 VNSX, brecciated qtz vein with < 3% fine grained blebs of py up to 7mm wide + coarser euhedral crystals concentrated in veinlets, gn along fractures (EVENING VEIN) (T.0.125)			0.16	18103	0.006	2.23	0.0955	0.0923	0.2890	0.0130	
29.22-29.66 GRDR with ANID frags with < 1% py dms and concentrated along qtz veinlets with minor gn			0.44	18104	0.062	0.0292	0.0252	0.0603	0.3600	0.0060	

DEPTH (M ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Prop B	Pny C	A D	E	
32			ANID	32.65-32.81 V NSX intensely silicified GRDR host with up to 3cm wide bands of Qtz breccia (frags ≤ 1cm) with chlorite envelopes, 60° TCA < 2% finegrained pyrite blebs and < 1% fine grained galena concentrated along bands with 2cm frags of ANID (evening vein??)						
33			GRDR	32.81-34.02 GRDR intense phyllic and silicified altered with randomly oriented chl veinlets < 1% f.g. py cluss throughout, last 0.12m of interval is a convoluted mixture of intense silicified GRDR with propylitically altered ANID? as a HW to fault gouge below						
34				34.02-34.14 fault gouge (shear zone) < 2mm remnant frags with HW:FW contacts being limonitized						
36			GRDR	34.14-39.86 GRDR 34.14-35.20 1st 10cm of interval is intense silicification and phyllic alteration but becomes partially unconsolidated with ground core at 34.53m 34.61m an 11mm band contains 3% f.g. py blebs up to 1cm and medium grained galena oriented 85° TCA, 34.8-34.9% apatite which is						

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	%	%	COMPOSITE ASSAYS
					oz/t Au	g/t Ag	g/t Cu	g/t Pb	g/t Zn	
32.65 - 32.82 m intensely silicified GRDR with Qtz fragments <1cm in a black Chlorite matrix containing <2% fine grained py blebs & <1% fine grained galena concentrated along bands 600°C (EVENING VEIN) (TR 2.14)			0.17	18105	0.005	2.07	0.0664	2.93	2.66	0.0092
32.82 - 33.53 m FW to VNSX intensely silicified and phyllic alteration <1% f.g. py in distinct band of chlorite at random orientations			0.71	18106	0.002	0.0875	0.0015	0.0300	0.0337	0.0027
34.02 - 34.14 Fault gouge ~5% 2mm remnant frags of GRDR			0.12	18119	0.002	0.01%	0.0040	0.0070	0.0234	0.00235

DEPTH (M ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Prop B	Phy C	A D	P ₀ E	
34.14-39.86		GRDR		GRDR CONT aphanitic glassy looking with minor limonite on fractures 34.96-36.00m intense silicic/phyllitic GRDR which grades into a weakly silicified, moderately propylitized GRDR at 38.00m At 37.25m 12mm wide band of qtz/calcite veinlet with associated envelopes of f.g py blebs up to 5mm and medium grained galena, <2% SX, increased propylitic alteration towards end of interval, <1% diss py throughout						
39.86-40.12		ANID		ANID as above with only 1mm calcite veinlets and dyke is dark (almost black in color), limonite on fractures						
40.12-48.80		GRDR		GRDR intense propylitic altered, moderate to intense phyllic weak to moderate silicification <1% py diss throughout rusty limonite on fractures contains f.g dark green fragments, <7cm ANID?						
42.57-42.92		MISSING		MISSING CORE btwn 42.57 and 42.92 last 15cm of interval is intense limonite stained						
48.80-49.18		AN/D		AN/D with phenocrysts						

DEPTH (ML ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Prop B	Phy C	A D	Po E	
48				48.80-49.18 AN/D cont altered to calcite as well as <1mm veinlets of calcite						
				49.18-55.24 GRDR						
				49.18-52.14m intensely rusty GRDR						
50				49.79 5cm frag AN/D						
				49.89-49.99 band of hematite filled fractures giving a brecciated look, in a qtz calcite matrix 1cm blebs of fg. py <1% assoc with fractured zone						
52				50.50 2cm ground section of qtz calcite (breccia) <1% fg. py diss throughout, minor leaching of py to hematite						
				51.06-51.82 shear zone rusty limonitic zone with numerous qtz and calcite veinlets up to 2mm wide ~45° TCA, convoluted fracture						
54				51.82-57.00 GRDR weak to moderate silicification intense propylitic alteration moderate phyllic, <1% py						
				55.0m 0.7m intense silicification zone with chlorite bands containing gn + py <3mm up to 1%						

AN/D

GRDR

silicification

DEPTH (METERS)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Prop B	Phy C	A D	Po E	
56				49.18-55.26 GRDR CONV'T						
				55.26-56.18 LOST CORE MISSING						
57				56.18-83.94 57.00-64.0 GRDR weak silicification, intense propylitic alteration and moderate phyllic, <1% fg py diss						
58				57.94-59.33 intensely rusty zone along fractures						
				59.33-49.61 zone of moderate silicification with hematitic fractures with associated <1% fg. euhedral py and qtz calcite veinlets occur at ~80° TCA 3/cm spacing						
60		GRDR		64.01-71.39 same as interval 57.00-64.01 except phyllic alteration is increased to intense and py is decomposing leached to hematite debris diss throughout <2mm						
				63.37 1cm qtz calcite veinlet 30° TCA contains <1% medium grained euhedral py cubes along margins and envelopes to the veinlet						
62				70.18-70.43 chloritic bands 060° TCA with assoc qtz calcite veinlets up to 7mm wide containing less than 4mm plbs of fine grained py and at 70.43 0.06m cherty zone 060° TCA						

DEPTH (MEAS)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Prop B	Phy C	A D	Po E	
64				56.18-83.94 GRDR UNIT						
				70.18-70.43 cont'd and f.g. py <1% along edges of calcite fragments						
66				71.39-80.04 intense phyllic weak to moderate silicification with intense rusty fractures often with assoc pyrolusite intense propylitic alteration core is a pale drab green color (orange brown buff where limonite/pyrolusite occurs) <1% f.g. py diss persists small zoom zones where hematite is also diss. with the pyrite						
68		GRDR		80.04-83.94 same as above except core is less green and more buff colored as limonite becomes pervasive						
				79.68-82.5cm zone of qtz calcite breccia 60-70A with py selvages in chlorite envelopes py is coarse blebs <1% in and along fractures through the qtz fragments						
70				83.13 blebs of calcite and hematite <1cm with fine grained py are diss throughout unit until lower contact						
				83.62 4mm wide stringer of fine grained pyrite						

PAGE 22 OF 55		PROJECT: OCEAN VEIN					HOLE No. 39 550				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	%	%	%	Pb	Zn	COMPOSITE ASSAYS	
					oz/ton	Ag	Cu			As	
85.28-85.58m RYID minor fault gouge at 85.33 with assoc py <1% with chlorite and carbonate, sx diss over interval and along fracture			0.30	18107	0.010	0.5279	0.0020	0.0333	0.0741	0.0035	
85.58-85.77m RYID qtz calcite veinlet zone with 5% py and 10% gn with py diss throughout interval trace sphalerite with concentrated py + gn			0.19	18108	0.813	68.17	0.0048	0.4000	0.2860	0.0063	

S D H (ME .S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Prop B	Py C	A D	Po E	
87		RYD		87.28-95.86 GRDR as above with a rusty zone from 87.28-89.38 where fractures are coated with limonite and pyrolusite, py diss throughout interval is partially leached and concentrate along fractures <2%. At HW contact with PPDF from 87.21 to 87.37m						
88				qtz calcite veinlets with <3% gn and py <1cm wide, diss py occurs throughout interval bands of Po alteration up to 3cm wide with sharp boundaries 50°C TA occur and groundmass becomes Po altered below 89.38m						
90		GRDR		93.17-93.33 milky white calcite and clear qtz veinlet 1cm wide 45°C TA contains <2% Sx of fine grained py + ground limonite along fractures						
95				93.62-95.73 badly ground core						
		LOST		94.50-95.73 LOST 1.23 m ; 94.50-95.73 m core MISSING						
				95.86-96.31 ANID dark green, intense propylitic altered ANID randomly oriented calcite, qtz veinlets throughout, abundant leucokene						

D ^y H (ME ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S. A	Prop B	Phy C	A D	Po E	

96				96.31-99.59 GRDR as above with pervasive Po alteration, <1% diss py						
98		GRDR		97.80m irregular shaped patch of clear qtz and white calcite 5cm across with <1cm blebs of f.g. py and <1% gn; cp, one 2cm bleb of sprakerite						
100		* GRDR		99.59-102.72 RY/D as above with qtz eyes now distinct upto 5% and 4mm in size, siderite replaces feldspars and in patches are leached out, pyrolusite coats fractures and decreases towards FW, <7mm sized euhedral cubes of f.g. py occur sporadically and concentrate along fractures (99.70, 100.12, 101.58, 101.85)						
102		RY/D		102.72-104.85 GRDR coarse grained phyllic and propylitic altered phenocrysts, weak argillic alteration and minor limonite throughout, 3 7cm fragments of RY/D enclosed within GRDR ground rock at 104.53-104.85						
		* GRDR		104.78-104.85 minor shear convoluted chlorite veins						

DEPTH (ME S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					Si A	Pr B	Ph C	A D	Bo E	
128.00		AN/D		126.80-128.02 GRDR fresh looking GRDR, magnetic, pyroxene shaped chlorite filled phronocrysts, moderate phyllic and silicic alteration with intense propylitic. Calcite <3mm wide coats several fractures, minor leucoxene and only rare py diss						
130		GRDR		128.02-128.43 AN/D as above with no diss py and no leucoxene and only one hairline fracture filled with calcite and hematite at 35° TCA						
132				128.43-133.12 GRDR moderate to intense potassic alteration, same as above with <1% diss py						
134		AN/D		133.12-134.27 AN/D same as above with randomly oriented calcite hematite veinlets <8mm wide, color gradually changes down hole from dark grey green to dusty green, rare diss py						
		GRDR		134.27-142.51 GRDR same as above, core is magnetic and potassic alteration persists						

D TH (ML .ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Pr B	Ph C	A D	PO E	
148.07-150.94		GRDR		GRDR same as above with rare calcite / qtz veinlets < 2mm wide with < 1% f.g py 149.00-149.31 intense rusty zone with limonite and siderite on fractures						
150.94-151.16		AN/D		AN/D same as above but with calcite veinlets containing hematite, HW contact was sheared calcite / hematite veinlets at 40° TCA						
151.16-154.68		GRDR		GRDR same as above with rusty patches throughout and minor diss leucoxene 152.42-152.65 intense silicification with increased leucoxene, f.g. py diss < 1% as 4mm blbbs 5mm qtz stringer with < 1% f.g py on selvages 55° TCA, trace epidote						
154.52-154.68		AN/D		AN/D sheared contact with AN/D, rusty with hematitic qtz and calcite fragments in crude bands 50° TCA with chlorite envelopes < 1% f.g py diss						
154.68-154.70		AN/D		AN/D						

PAGE 35 OF		PROJECT: OCEAN VEIN				HOLE No. 89550					
DEPTH (M ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					S A	Pr B	Ph C	A D	PO E		
155				154.68-154.90 AN/D CONT same as above with an altered HW, intense limonite mark a chilled margin of a 3cm frag in the HW with calcite replaced phenocrysts							
160		GR DR		154.90-162.05 GR DR as above with continued potassic alteration, fractures are coated with <1mm of red hematite, <1% F.g diss py, core is still magnetic, minor leucoxene 157.34 <2mm veinlet of dark sphalerite and f.g. blebs of c.p							
162		AN/D		161.10-161.88 possible mismatch? with footage tag in incorrect spot, ground core just after improper tag - core cut twice (no core missing)							
164		GR DR		162.05-162.23 AN/D dark green dyke with abundant leucoxene, one 3mm calcite veinlet 40% Ca with 2 stages of fluid injection, one as a hairline selvage to the clearer center							
166				162.23-168.13 GR DR same as above with epidote veinlets < 2mm							

DEPTH (M)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Pr B	Ph C	A D	Po E	
166		GRDR		162.23-168.13 GRDR Conit along fractures						
				164.10 fracture with 2cm coating of very fine grained galena and py diss						
				166.45 - 166.94 <1% f.g cp diss plus <1% f.g py						
168		AN/D		168.13-169.27 AN/D same as above with less leucoxene, HW contact has <2cm of epidote veinlets 45° TCA, chlorite calcite veinlets with remnants are randomly oriented						
169		GRDR		167.27-174.60 GRDR same as above with more being strongly magnetic minor epidote bands of chlorite with calcite, minor diss leucoxene						
				174.60-175.16 AN/D same as above with chlorite epidote veinlets throughout, HW sheared with a 1cm qtz calcite veinlet at 45° TCA with <1% f.g diss pyrite						
174		GRDR		170.16-178.56 GRDR same as above with						

DEPTH (M. ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Pr B	Ph C	A D	Po E	
180.57-181.84		GRDR		GRDR same as above except an increase in silicification cleavage in phyllic and potassic alteration core is still magnetic						
181.84-182.35		ANID		ANID same as above with hematite rich Qtz calcite veinlets ≤ 3mm 60° TCA						
182.35-183.46		GRDR		GRDR as above, minor leucopene 183.5 8cm fragment of ANID enclosed						
185.46-185.71		ANID		ANID as above with abundant leucopene						
185.71-186.97		ANID		GRDR as above with < 7cm fragments of dyke enclosed, 2 1cm Qtz calcite stringers at 40° TCA with < 1% Fe py in subtidal blebs and along stringers py concentrated along dyke fragment selvages (< 1%)						
187.45		GRDR		GRDR 187.45 35mm fragment of sheared core with py and calcite and < 1% Fe py at base						

DEPTH (M ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	P B	Ph C	A D	Po E	
185.71-188.97		GRDR		GRDR CONT						
				Possible mismatch? tag 184.7 to 187.45 has 36 cm extra while btwn 187.45-189.28 has 28 cm missing (tag in wrong spot?)						
188.97-189.28		ANID		ANID same as above blocky core						
189.28-189.44		GRDR		GRDR same as above FW weak phyllic alteration						
189.44-189.78		ANID		ANID as above except not blocky core and py is 4% as 2mm central blks dis throughout						
189.78-191.50		GRDR		GRDR same as above FW & HW weak phyllic alteration contains 7cm fragments of dyke unit enclosed within GRDR						
191.65		*		4.5 cm zone of intense silicification including a 3cm milky white Qtz cement fragment with 4mm bits of G.P.						
191.40		ANID		ANID 10m ...						

DEPTH (ML ES)	Recy % C.	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					S A	Pr B	Ph C	A D	Po E	

96		ANID		194.50 - 195.68 ANID same as above with < 3cm fragments of GRDR						
				195.68 - 217.93 GRDR same as above with red hematite along fractures for 10cm down hole from HW contact, propyl. tie alteration increased to intense < 1% py f.g. diss and concentrated along fractures as 2mm seams near HW at random orientations core weakly magnetic						
98		GRDR		198.64 2cm qtz stringer with calcite, 60° TCA with < 1% f.g. py diss along margin						
				201.84 - 201.94 zone of intense silicification with numerous qtz + calcite veinlets, < 20% f.g. py as diss and fracture filling along splines of veinlets, minor hematite						
00				203.68 4mm band of qtz + calcite with < 3% gn, < 2% sphalerite and 2% py 50° TCA						
				203.80 25mm qtz veinlet with calcite and < 1% f.g. py and trace gn						
				204.00 - 204.45 zone of weak						

PAGE 47 OF		PROJECT: OCEAN VEIN			HOLE No. 89550					
DEPTH (M. ES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					
					Sil A	Prop B	Phy C	Arg D	Po E	FRACT INTENSITY
203				195.68-217.93 SRDR CON'T						
				207.78 5mm qtz calcite veinlet with <1% py and gn as selvages, trace sphalerite						
				209.69 15mm qtz calcite veinlet with 40% f.g gray ss plus <5% 3mm py nibs and gn						
204				211.27-211.38 moderate-intense silicification with chloritic qtz calcite veinlets with <1% py and rare gn in py						
				211.64-212.14 zone of intense argillic alteration core is partially unconsolidated with f.l.spr. phenocryst altered to clay						
206				22.45-212.53 silicified zone with <1% py and rare sphalerite nibs						
				2351-214.16 phyllic altered silicified interval with numerous qtz calcite veinlets with py and euhedral gn <1% along fractures and veinlet selvages, py also <2% diss throughout						
208				217.63-217.93 LOST 30cm core missing one ground piece						

DEPTH (ME .S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					Sil A	Prop B	Phy C	A D	B E	
223.03-226.13				GRDR						
224		GRDR		224.00-224.34 flow banded with convoluted chlorite veins and <1% py ds along joints. 224.15-224.34 fragment of matrix which has GRDR fragments within						
		GRDR		224.34-226.13 propylitic and phyllic altered GRDR with a decrease in chlorite veins having <1% py ds and grey lg ex 60°C						
226				226.13-226.40 GOUGE fault gouge grey green color gradually into dark grey down hole. 10% ds, 1% lg ex						
227		VN SX		226.40-227 VN SX (OCEAN VEIN) brecciated with ~60% glz fragments & iron with large veins. Brecciated into black siliceous, chlorite matrix, ~25% lg. py along fractures, ~10% f.g. gn with ~25% siliceous fill						

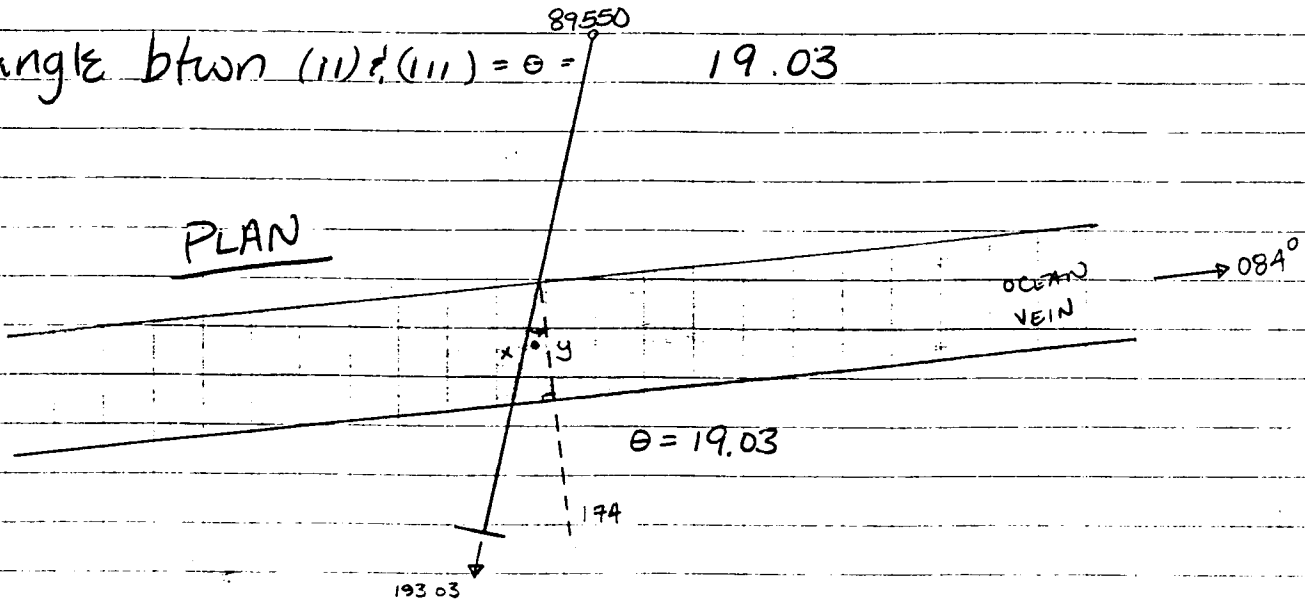
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	INTERVAL	WIDTH	ASSAY NUMBER	% oz/tm	%	%	Pb	Zn	COMPOSITE ASSAYS As
					Au	Ag	Cu			
225.44 - 225.94 GRDR intense phyllic and silicification, <1% diss py and concentrated along fractures			0.50	18111	0.005	0.045	0.026	0.0044	0.0068	0.0020
225.94 - 226.13 same as 18111 with increase in py into seams < 4mm wide plus fig			0.19	18112	0.002	0.0525	0.0034	0.0045	0.0091	0.0028
226.13 - 226.40 Fault gouge illw to Ocean vein <1% fig py (TT=0.21)			0.27	18113	0.016	0.2012	0.0064	0.0747	0.0960	>0.1000 Ocean Vein Intersect
226.40 - 226.73 Ocean vein 60% qtz, 40% black matrix of 15% fig py ~ 10% gn, 25% sl (TT=0.25)			0.33	18114	0.044	4.84	0.1127	1.13	1.234	>0.1000 COMPOSITE ASSAY = 0.042/
226.73 - 227.15 Ocean vein, 40% qtz with calcite matrix fig py 30%, 10% gn, 20% sl (TT=0.22)			0.42	18115	0.060	7.45	0.2280	1.44	2.42	5.05 0.15 1.25 TT=0.96 >0.1000 0.042, 505/0.96

DEPTH (ME .S)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY	
					Si A	Al B	Phy C	Arg D	Po E		
227		GRDR		227.38-231.97 GRDR FW to OCEAN VEIN, INTENSE phyllitic and silicification 21% Fg py							
30											
31											
32				ANID GRDR	230.37-230.96 'bleached' GRDR with weak propylitic intense phyllitic and moderate silicification 230.61 a fracture with iron oxide clay						
33		MISSING CORE		231.97-232.16 ANID broken core with abundant HEUCOXENE							
234											
239		GRDR		232.16-232.57 GRDR cores above with moderate silicification with rare cherty, last 5cm of core is ANID as above							
240											
241		GRDR		232.57-238.07 GRDR? LOST Box of core flipped during flight all but 1.04 m lost! Pieces left are phyllitic altered GRDR with weak to moderate silicification							
		GRDR		238.07-242.93 GRDR weak silicification moderate propylitic alteration last 40m 21% Fg py etc.							

D + 1 (METRES)	% Core Recy	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACT INTENSITY
					A	B	C	D	E	
				HOLE SUMMARY						
				89 550 was drilled to intersect the Ocean vein at depth where it was projected by a THEM anomaly, and to test possible extensions of the evening veins)						
				The majority of the hole consists of prop altered GRDR with numerous ANID and 3 RYID						
				NSX zones at 29.06-29.27 and 32.65-32.81 could represent the evening veins)						
				The target Ocean Vein was intersected at 226.13-227.38 m. The HW consists of a 27cm zone of gray green fault gouge. The vein is comprised of ~60% gtz fragments in a sulfide rich matrix of chlorite. Sulphides consist of ~15% py with 10% gn and ~25% sphalerite which occur along fractures. True thickness of the intersection was calculated to be 0.96 m						

DDH 89 550

- average strike of Ocean vein 084
 (ii) azimuth of 89550 193.03°
 (iii) \perp to strike of vein 174
 (iv) angle btwn (ii) & (iii) = $\theta = 19.03$



(v) hole length to intersection (x) = 1.25 m

(vi) true plan thickness (y) = $\cos \theta (x)$
 $= (\cos 19.03)(1.25)$
 $= 1.18$

(vii) dip of ocean vein 83°

(viii) dip of 89550 47

(ix) $y = y$ from (vi) = 1.18

$$\begin{aligned} TT = x' &= \cos \beta (y) \\ &= \cos 36 (1.18) \\ &= 0.96 \text{ m} \end{aligned}$$

