GEOLOGICAL BRANCH ASSESSMENT REPORT

11,715

DIAMOND DRILL ASSESSMENT REPORT

ON THE

SHASTA GROUP, OMINECA M.D.

N.T.S. 94E/2W, 7W, 3E, 6E

Latitude 57°14'N Longitude 126°53'W

OWNER: International Shasta Resources Limited

OPERATOR: Newmont Exploration of Canada Limited

By: Bruce Downing November 8, 1983

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1. INTRODUCTION

The Shasta Property consists of twelve claims comprising the Shasta Group, (Shas 31, 33, 35, 36, 37 & 38; Sha 1 & 2; Silver Reef; Silver Reef 3; Shasta 3 & 4). The work was done on Shas 35 & 36.

A drilling program to test areas of gold and silver mineralization below surface was carried out between August 17 and September 8, in which 674 metres (2211 feet) of BQ core were drilled from nine holes. The drilling was contracted to D. J. Drilling Co. Ltd., 13135-20th Avenue, Surrey, B.C. Most of the core was split with half being sent to Chemex Labs, North Vancouver for fire assay (Au & Ag) and the remainder labelled and stored in core boxes on the property at the campsite. The program was supervised and core logged by B. W. Downing for Newmont Exploration of Canada.

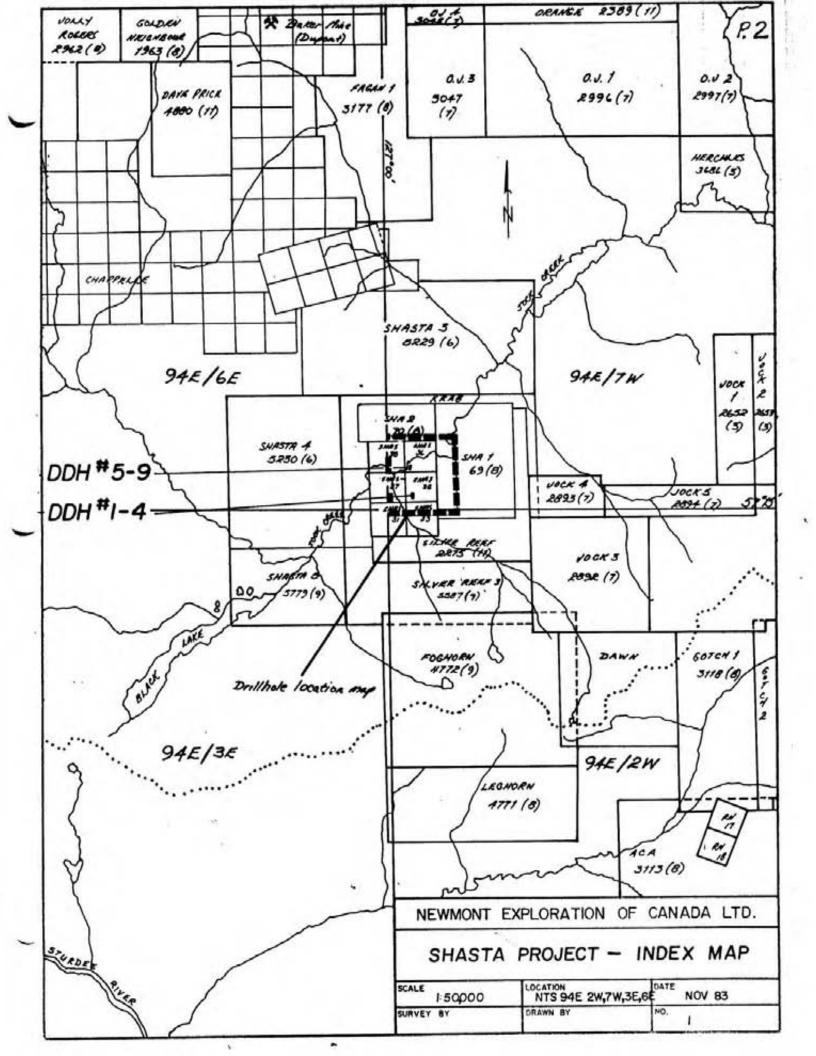
The Shasta group of claims were originally staked in 1972 and since then various surveys (geology, geochemistry) have been carried out on the property. An option was signed in April 1983 between Newmont and International Shasta.

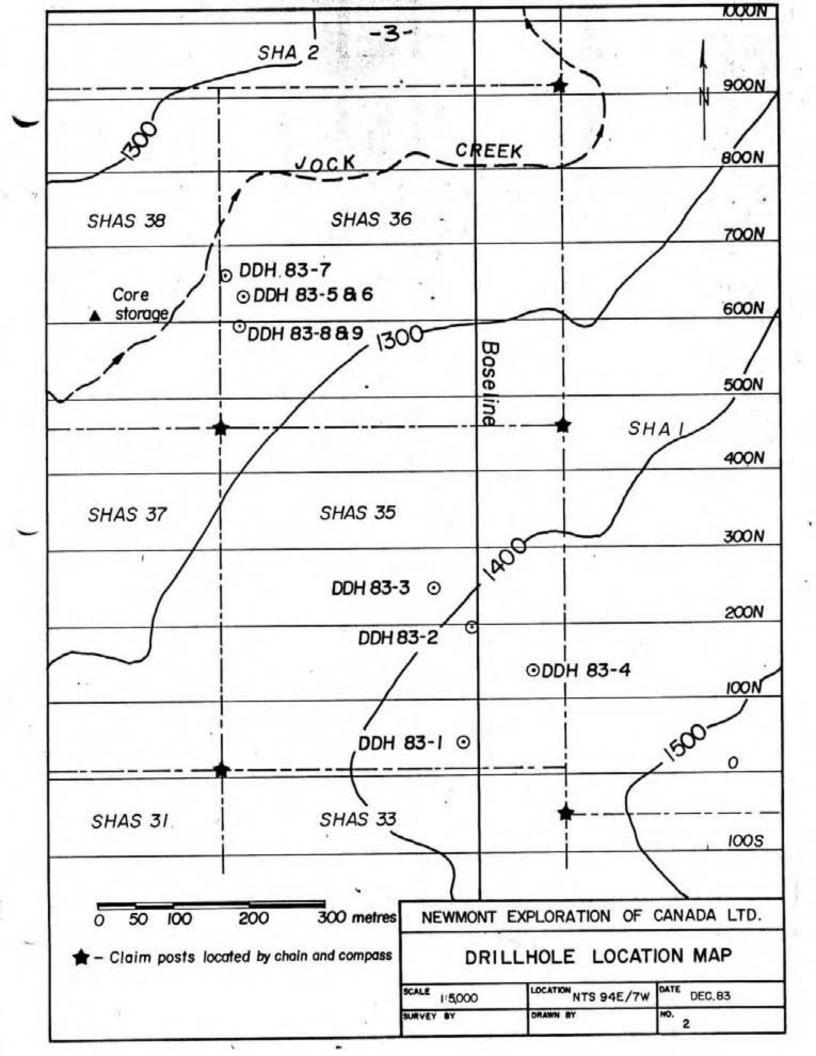
1.1 Location

The Shasta Group is located approximately 290 km north of Smithers in the Omineca Mining Division at the junction of four map sheets (94E/2W, 7W, 3E, 6E), Figure 1.

1.2 Topography/Access

The property occurs in the moderately rugged Toodoggone area of B.C. between the 1245 and 1700 metre elevations. It is located approximately two kilometres northeast of Black Lake which is accessible by float plane and wheel plane (abandoned 1000 metre dirt airstrip). The property is drained by Jock Creek (headwaters at Black Lake).





Access to the property is by fixed wing aircraft from Smithers to the Sturdee River all weather airstrip (1600 metres in length) located about five kilometres to the southwest; followed by a five minute helicopter trip. This airstrip serves both Dupont's Baker Mine and Serem's property.

GEOLOGY

2.1 Regional Geology

The Shasta property occurs near the eastern margin of the Intermontane Belt in the Cassiar-Omineca Mountains. rock exposed are wedges of crystalline limestone correlatable with the Asitka Group (Permian) in thrust fault contact with the Takla Group (middle Triassic age). The Takla Group consists of andesitic flows and pyroclastic rocks including augite-tremolite andesite porphyries and crystal and lapilli tuffs. The Takla is intruded by the Black Lake intrusive, a relatively unaltered granodiorite to quartz monzonite and part of the Omineca Intrusions. are overlain by the Toodoggone volcanics (lower Jurassic age) in which the Shasta property occurs. The Toodoggone volcanics consist of tuff, flow and pyroclastic breccias, volcanic sediments, andesitic flows and grey dacite, the latter being the most widespread and continuous rock type in the area. A distinctive characteristic of many of these units is the presence of quartz eyes. The Shasta property occurs within a quartz-eye feldspar crystal tuff (field name), a rock type similar to that at Serem's deposit (field name being quartz andesite). The Baker Mine occurs within the Takla Group; however, all three properties have similar style of mineralization (quartz veins, silicified breccia zones).

The Toodoggone Group rocks are unconformably overlain by relatively flat lying Sustut Group sediments of Upper Cretaceous to Tertiary age which outcrop along the eastern margin of the Spatzizi Plateau, several kilometres to the west.

Structurally, the Toodoggone area has undergone several periods of faulting, (thrust, normal, strike-slip) and folding. In the northwest portion of the area (Claw Mtn.), the Toodoggone rocks are apparently in fault contact (northwest trending) with the Takla. Many of the valleys display block faulting, associated with graben structures.

2.2 Property Geology

The Shasta Property comprises of three zones (Main, Creek and Jock) within a quartz-eye feldspar crystal tuff, and a fourth zone (Upper zone) in a feldspar crystal tuff. These units have a characteristic orange weathering surface due to fine hematite within the albite producing orange coloured feldspars. Bedding was recognized within the quartz-eye unit in several places. Mafic rich fiamme ranging from a few millimetres up to several centimetres occur in both units and vary from scattered to numerous, the long axes of which are subparallel indicating bedding attitudes. The quartz eyes decrease in frequency towards the feldspar crystal tuff unit and the contact is gradational. The feldspar unit is characterized by more epidote alteration and epidote-rich fractures. The upper part of the quartz-eye unit is fragmental (breccia) and is overlain by a purple tuff-tuff breccia unit. Contacts are poorly exposed due to faulting and overburden.

The northwest portion of the map-area consists of tuff-tuff breccias to lahars, and volcanic conglomerate and wackes (some of which show reworking) all of which range in colour from grey, green and maroon-purple.

The four potential mineralized zones (Upper, Main, Creek, and Jock) are areas that have undergone faulting and shearing resulting in localized fracturing and brecciation with the formation of dilatant zones, a favourable area for mineralization. The first stage of deformation was responsible for development of unmineralized drusy quartz veins up to a centimetre across as parallel veins and/

or stockwork. A second deformational period caused rebrecciation with introduction of mineralized quartz veins. The last stage of mineralization resulted in many of the quartz vein cavities being filled with calcite and mineralized calcite veins coincident with the stockwork, with unmineralized calcite veins occurring in the periphery of the zones. Silicification and propylitic alteration (chlorite, epidote) are associated with the mineralized zones.

Structurally, the map-area is extensively faulted forming part of a graben structure. Poles to bedding are scattered resulting from a combination of folding and faulting, the latter causing large blocks to be displaced. Numerous small faults are recognized in the field by slip planes and topographic depressions. Major orientations of faults/fractures/joints are north-northeast and southwest trending. A major northeast-southwest lineament observed from aerial photographs transects the property and may be a major source regarding mineralization.

DRILL SURVEY

Results of the drilling program (drill logs and assays) for holes 83-1 to 83-9 are shown in Appendix 1 and summarized in Table I. The drill holes were not surveyed, hence the locations are approximate with reference to flagged grid lines and elevations estimated from topographic maps.

4. MINERALIZATION

The visible mineralization consists of disseminated cubic pyrite and fine-grained pyrite to pyrite blebs, disseminated argentite, specks of electrum and/or native silver, chalcopyrite and galena in quartz veins and silicified breccia zones with minor amounts in calcite veins. The better grades of mineralization occur at the intersection of major silicified (quartz-rich) zones.

5. CONCLUSIONS

The areas drilled resulted from observation of mineralization in outcrop. Several interesting zones were encountered which indicate the presence of widespread gold and silver mineralization. Drilling results indicate the continuity of surface mineralization at depth. However, much of the property is overlain by glacial material which would necessitate several drill holes to fully evaluate the potential of the mineralized zones.

B. W. Downing, B.Sc., M.Sc.

November 8, 1983

SHASTA 1983 DRILL SUMMARY

-	DDH	Lat. metres	Dep. metres	Elev. metres	Brg.	Dip	Length metres	<u>F</u>	rom	To	Length metres	oz/t Au	oz/t Ag	
	1	043N	020W	1425	270°	-50°	91.8	4	9.4 11.8 57.3	10.3 43.0 62.2	0.9 1.2 4.9	0.050 0.070 0.040	0.96 4.36 2.70	
									11.9	74.9	2.8	0.042	2.88	
	2	198N	009W	1405	270°	-55°	83.5	6	56.0	67.1	1.1	0.012	0.30	
	-	05111	0570	1380	120°	-50°	92.7		21.0	26.2	5.2	0.153	1.69	
3.5	3	251N	057W	1380		s a section of			25.0	26.2	1.2	0.208	2.83)	
	4	139N	072E	1425	090°	-50°	82.3	1	12.2	14.9	2.7	0.003	0.12	
	ै	23311	4,12		***		02.15	-	10.10	5115	Distr	7.00.00		
	5	635N	305W	1260	090°	-45°	84.1		12.2	13.1	0.9	0.078	0.18 7.63	
					(include	s a section of		1	17.5	19.6	2.1	0.726	13.00)	
	6	635N	305W	1260	090°	-70° s a section of	60.0		16.5	27.7	11.2	0.209	4.47	
					(Include	s a section of			16.5	34.1	17.6	0.155	3.03	
	7	660N	330W	1245	090°	-45°	57.3		20.0	24.7	4.7	0.077	1.06	
								3	28.0 36.9	29.6 43.0	1.6 6.1	0.078	4.65	
								OR 3	32.0	45.7	13.7	0.037	2.60	
	8	596N	310W	1280	090°	-45°	56.7	3	32.0	32.5	0.5	0.150	13.14	
	9	596N	310W	1280	060°	-70°	64.6	2	25.3	25.9	0.4	0.046	1.32	
					(includes	a section of			47.5 52.7	58.1	10.6	0.110	3.84	
					(Lilozudes	a acception of		1.9	32.1	54.3	1.6	0.270	12.75)	

ò

APPENDIX 1 DRILL LOGS

And the second s				
PROJECT				GROUND ELEV.
SHASTA				1425 m
HOLE NO.				BEARING
SH-83-1				270°
LOCATION	- relativistical			DIP
	· · · ·			-50°
Main Zone (surrace)			TOTAL LENGTH
				91.8 m(301 ft)
LOGGED BY				HORIZONTAL PROJECT
B.W. Downin	g	Susin	I.	043N
DATE			- 0	VERTICAL PROJECT
	0.6			020W
CONTRACTOR				ALTERATION SCALE
D.J. Drilli	ng Co.			0123
13135 - 20t	h Avenue			absent
Surrey, B.C	. V4A 1Z1	C		slight
CORE SIZE				moderate
BQ				intense
DATE STARTED	1002			444
August 21,	1963			TOTAL SULPHIDE SCALE
DATE COMPLETED				01234
August 23,	1983			traces only < 1%
DIP TESTS				1% - 3%
None				3% - 10%
10				> 10%
COMMENTS				LEGEND
Mineralizat	don			Specimens
nineralizat	ton			ft m
from to	length	Au	Ag	(85) 25.9 TS
		oz/t	oz/t	(106) 32.3 (128) 39.0 TS
9.4 - 10.3 m	0.9 m	0.050	0.96	(128) 39.0 TS (138) 42.1 PTS
41.8 - 43.0 m	1.5 m	0.070	4.36	(160) 48.8
57.3 - 62.2 m 71.9 -74.7 m	4.9 m	0.040		(203.5) 62.0 PTS
11.9 -/4./·m	2.8 m	0.042	2.88	(230) 70.1 (231) 70.4 TS
Purpose: To te				(301) 91.7 TS
(8 m C	0.043 oz/t	Au, 1.70 c	z/t Ag)	
Claim: Sha # 3	35			qft-quartz eye feldspar tuf:
				by - breccia
TS - thin secti				qtz - quartz diss'd - dissiminated
PTS- polish thi	n section			diss d - dissiminated
				14

GE \		OF	3	PROJECT:	SHASTA				1	HOLE	NO. 8	33-	1
	2	>	щ				ALT	ERATI	ON			Z.	
	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION		chlorite	С	D	F	FRACTURE	% VEIN QTZ	
			Ť	0 - 3.0	CASING	H.	-	4	JI	-		Ť	Ţ
	75				3.8 - 9.8 cosing blocky caving								
	56			3.0-20.1	quartz-eve feldspar tuff (9ft).		-		Ħ				
10	80				tark orange feldspars; disseminated								
	67 A				f.gr. py 2-3%; quarty-coloits stockwork, childritic alteration of matics								Ť
					with of stak, silverfied oft from								
20					greenish quanty streaks, specks py.	s.							
					greenish quanto streaks, specks py. 6								
					calcite blebs(sicm) zone at 80°; vuggy; dist'd by 2.3% greenwhichy alteration as sontleved blebs.	•							
30	VOC				as son thereof blebs.					H			
					140-143: 912-cal com at 800 a long charte patches along vein.								
100					15.4-15.5: blocky py greyish gtz								
40		-	~~		20.1-21,1 ! silicified zone 60700;	,					Ħ		
					18.4-18.5: blocky py greyish at 19.2-193: colore blocks, py epy speck 20.1-21,1! silicitied zone 6070; greenwh at streolis; py 1-2%; dark grey atz; f.g. sulphides								
					9 9 7 3 1								
50				204 - 22.9	silicified breccio zone; very broken core		4					4	
					3.655.300 (1.110.000.0.3118), 25-21-2-21-2-21-2-2-2-2-2-2-2-2-2-2-2-2-						H		
60			-	22.9-23.0	no mineralization					H			
				230 - 23.1									
				25.1	gtz stockwork, byzone, 157.								
70				23.1 - 30.0	atty stockwork; diss of py 5-10%								
		_			24.4 - 24.5 à silicified 2000 @ 25°								
					and stockwork; diss'd py 5.10%. Dishlovitic matrix 24.4-24.5: silicified gone (25°; diss'd py; specks golena.								
. 80					strong to intense sitisification,				1				
				308-433	aft; pale orange feldspars; strong to intense silicition;								
90	111		=		STORY TO INTENSE STITUTED TON		TT.				1		1

IGE 2 OF 3 PROJECT:	SHIA							HOLE NO. 83.
	w		SAMPLES				ASSAYS	
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	3мютн	SAMPLE NUMBER	03/4	03/2	
		m	·m	m		411	gA	
		30	5.5	10,000,000	C560	2.003	0.22	
	- 111	5.5	7.0	1.5	61	0.003	0.05	
		7.0	9.4	2.4	62	0.005	0.12	
		9.4	10.4	1.0	63	0.050	2.35	
		10.4	11.0	0.6		530.0	0.42	
		11.0	14.0	3.0	65	0.007	0.04	
		14.0	15.5	1.5	66	0.00#	0.24	
		15.5	19.1	3.6	67	0.003	0.12	
	H	19.1	19.4	0.3	68	0.012	0.74	
		19.4	201	0.7	69	0.014	0.20	
		20.1	21.1	1.0		0.010	0.13	0.41
		21.1	229	1.8		0.022	0.20	The second second
***************************************		22.9	24.3	J. Je	72	0.00%	G 12	
		24.3	24.5	0.2	73	0.020	0.14	
		24.5	29.0	4.5	74	0.020	0.00	
					75			
		29.0	30.8	1.8	76	0.003	0 10	
		30.8	32.3	1.5	77	0.010	3, 33	
		32.3		2.8	78	1	-	
		35.1	39.6	4.5			0.35	
		39.6	41.8	2.2	79	2015	0.35	
10-14-150-150-150-150-150-150-150-150-150-150		41.8	43.0	1.2	80	0.070	4.32	
		43.0	46.0	3.0	81	0.004	2, 3	
		46.0	148.8	2.8	82	0.003	0. 8	
AND THE RESERVE OF THE PROPERTY OF THE PERSON OF THE PERSO		48.8	52.1	3.3	83	0.006	0.54	Language Company
WHEN WEST AND STREET STREET, S		52.1	57.3	5.2	84	0,004	0.35	V - V - 20 100 -
		57.3	62,2	4.9	89	0,040	2.70	
		622		3.6	86	0 00%	0 17	
				3.1	87	0.003	4.25	
		68.9	71.9	3.0	88	2.012	0.50	
		71.9	74.7	2.8	29	0012	2.55	
		747	77.7	3.0		0.003	0.07	
		and the second second	82.3				0.13	
		77.7	86.9	H. 6		0.008	0.01	
					4503	0.003		
	- 111	86.7	91.8	4.4	0593	5.803	0.02	
		1	+	-		-		
		-		-	-	-	-	
		-	-	-		-	-	
		-	-	-			-	
			-					
		1						
				-	-			
		1000	-					
					4			
		111111111111111111111111111111111111111			1			

3		OF	3	PROJECT:	SHASTA		G				HOLE	NO.	33.	- 1
	S	>	w		E. L.			ALT	ERATI	ION			7	Γ
	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION		A	Chlarite	С	D	E	FRACTURE	% VEIN QTZ	
	Ì			3	4.1: dk. aver at 1cm wide @	030		-			-		H	t
				3	11.1: dk.grey at 1cm wide of 12.2-31.4: grey-black sulphu along fractiones at out	des		1		-			-	1
- 4		-			along fractiones at obse					H1			11:	1
				3	vein 60380 913; cal	ate		1					过	1
					rem 600 800									+
					36.9: calcute vein Icm De cuts intensense silicified: 18-430: intense silicified b gray-black qtz; vuggy; frag 9010 altered, some fragme	262°			-1					F
					cuts intensense silicitied	one						13		1
		-		4	18-430: Intense siliciaco o	recti	30	me				7		1
				- 7	oslo altered some in an	int.						Ħ.	1	1
		-	-	-	ill show off, stockwork I dis by 1-2%, specks opy; green	ho'es	-					111		ŧ
				7	u 1-2%, specks Qui aveen	ish			++					Ŧ
					atz. streaks									I
			+		43.9-43.0: fault gouge		11			1	10			1
				. 4	13.0-43.3: bleach gore (mod.				111	111		11	1
					~		#	1						‡
			TT'	33.3-52.1	aft; dkorange feldspars; qt	3					H		H	Ŧ
					Stockwork 9		+	-		++		-	44	Ŧ
		-	-		50.4: cal very 1 cm @ 030°		1					-		ł
				ED 1-573	oft, sale surre feldense:	= fum			-					t
				321 0113	aft; pale orange feidspers;	Siror	7				1		17	ŧ
- 8			-		w price to principle to the						-	1		Ŧ
			-	87.3-62.2 K	interse silicitication zone: 91	eyisk				3.1				Ŧ
			-		colorived frags (50-100% a St	ered)								1
					interse silicification zone: gi colorived frags (50-100% a the dissid py 1-20%; specks cpi color blobs (courty fills throughout; py blobs; f.s associated with grey 913.	15 .						111	17	1
					calate bloos (cavity fills	ngs)	#					111	7	†
					throughout; by bleds it is	179		17		11	H	117	-11	1
		-		-	associated with grey 913.			44			113			1
				1007/17	2M / ±	-			-					Ŧ
				699-14-1	Transe solar to green-	louite								1
					9ft; greenish to green- Jorange colour Elue to ch Piamme (lithic fragments) Chloritized; 19.1: Phodochroste in a Urun, chl along urun edl 10.4-71.0: mod-Strong lote	MAN	3							1
					chloritized:	, ~ .	•				H		1	1
		_	-	1	eall: phodochrosde in a	45.					13			Ŧ
			-		vein, chi along vein ed	103								Ŧ
					10.4-71.0: mod-Strong 646	dehie	19							1
			4 - 2				-		#			th	1	1
	П			74.7-91.8	qtt, dkorange teldspars;	-,-		11				##	1	#
					gft, dkovange feldspars; scattered gtg. veins, sp	ecks be	7						11	+
						-								1
				91.8	END OF HOLE							111		1
									#		1			1
										11		113	#	#
3														+

NEWMONT EXPLORATION OF CANADA LIMITED

PROJECT					GROUND ELEV.
					Control of the Contro
SHASTA					1405 m.
HOLE NO.					BEARING
SH-83-2					270°
LOCATION					DIP
MATN 20	NE (surfa	1001			-55°
MAIN 20	NE (SULL	ice)			TOTAL LENGTH
					83.5 m (274 ft.)
LOGGED BY					HORIZONTAL PROJECT
B. W.	Downing		3,cc Pou	may	198N
DATE				-,	VERTICAL PROJECT
					The state of the s
CONTRACTO	R				0 9 W ALTERATION SCALE
	Drilling	Co.			10440000
5. 0.					0 1 2 3
					slight
CORE SIZE					
BQ					moderate
DATE STARTE	ED	\\			intense
August	24, 1983				TOTAL SULPHIDE SCALE
DATE COMPL	ETED .			-	01234
August	25, 1983				traces only
DIP TESTS	23, 2303				< 1%
					1% – 3%
None					3% - 10%
					> 10%
COMMENTS	- IV 1	V 16 - 280 500	e viet		LEGEND
Purpose	: To test	trench 8	3-7 t Au, 10.2	7 07/+7-	Specimens
	(2.5 m	0.300 02/	E Au, 10.2	/ 02/ CAG	ft m ft m
Mineral	ization				(40) 12.2 (257) 78.3 (86) 26.2 (271) 82.6
		12 32			(95.5) 29.1
from	to	length	Au oz/ton	Ag oz/ton	(112) 34.1
m	m	m	02/ton	OZ/CON	(203) 01.9
66.0	67.1	1.1	0.012	0.30	(221) 67.4 (236) 71.9
	15				3550 (512
					-61
CLAIM:	SHA #35				qft-quartz eye feldspar tuf: by-breccia
CLMITT:	SIM #33				qtz-quartz
					diss'd-disseminated
				-	k _{oj}
	+				

GE		OF		PROJECT:	SHASTA					HOLE	NO. 5	33	0.5
	2	>	w				ALT	ERAT	ION			N	
0	% CORE REC	гтногоду	STRUCTURE		GEOLOGICAL DESCRIPTION	A	Colerite	С	D	E	FRACTURE	% VEIN QTZ	
	0			0 -3.0	casing								10
	20				1 011 1 001 011				-	11			H
				3.0-46.3	quanteur Feldspar tuff (qft); dk. cravge feldspars; scattered quantz-calcite (calcite yeins at		•					4	
					dk. orotige teldspars; scattered		-	-	-	1	111		4
10	100				quarty-colorte colorte veins at								Н
		-			oso-osoo; f.gv. disseminated py 3.5°10; patches of s bokworld up to 0.3 m; small patches of breceia up to 2 cm. wide.	-		-		-63		-	+
	-	-			3.500; patches of 5 boxwork				1	-			-
	90	-	\sim		apto 0.3m; small patches of				-		115		
					brecera up to 2 cm. wide.	11							
20					131-155: light orange teldspar					111			
					associated with several narrow								
					fault zones with fault goinge, dissid by in goinge 3-5% (149-1502 - fault zone)								
		-			dissid by in gauge 3-5%	1					111		
	\perp		≈≈		(149-150 - faut zone).								
30	1	-			140: 1cm silicified me, grey 247: 6 0300 more chloritic			++					1
30	1 1				ats , 6 0200	H		H		1	-		
	11		-		24.7-38.3: makes more charitie		-	11					
	100				27.1-273: fault zone.	-11			Ш				
	100				97.4-97.5: " "		H	77			111		
(4)(00)	1 1				293-294: Silicified breccia zone;		111	11	177		III		
40	13			a contract	tracks are ates light and are	-1-1-						-1.	
	13			The state of the s	streaks grey at 1 light apple grown								
					382-29.6: calate vem @ 012.								
	1.1			-				11					
	1.1	-			34.5, 34.7,34.8: narrow siliceous-	-	+++		+-	17	11		-
50					at ois < 2cm wide, strake	-	-	11	11.7	-	-	-	-
			22	,	at ois & scm wide, streats		-1-1-			71		4	
	1.4				gray of chlorite selveges;				FI				
					o theoretes		111	-1-1	117				1
	63				37.1, 45.6, 45.8: faults, minor		Ħ						
60					uide, berpentini? along faul							Strie	
	11				wide, Gerpentin (?) along faul	4			tit				
	1.1				0					111	111		
	1 1			46.3-47.5	aft; Light orange feldspar fign dissid pd 5-10%			di					
					fan 8/135'd pg 5-10%	Н		34	11				
OF			-					11	1				1
	100	-		47.5-52.1	aft: dk ovavae feldspar: f.av.	-		-11					
					diss'd pu 3-9 %, odd at		HF	-11	H	11			
					aft; dk orange feldspar; f.gr. dies'd py 3-9 %, odd gtz.				17			H	
					20012	41	14					7	
200				521 - 53.D	faultone 1281 francitet					11	11.	井	
80	1			23.0	fault zone; alt fragments +	11						+	
					gorde 1 specks bod .					13		11	1
				No /					1	100	1		
	11			23.0-55.6	aft; light orange feld pars;			44				+1	
		-	-		highly bootund, humerous fr's with serpentine; numerous at a veinlets to hairline veine			-	H	-		7	H
	1				mysto serbelyine; immerais			17	7.1				

	SHE		AMPLES				ASSAYS	
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	3міртн	SAMPLE NUMBER	31£	Ag	
	- 111	m	m				3 F	
		3.0	6.7	3.7	0594	0.003	0.01	-
		6.7	9,4	27		0.008	0.04	
		9.1	13.1	H.O	96	0.003	0.04	
		13.1	15.5	2.4		0.303	C.12	
	$-\Pi$	15.5	19.2	3.7		0.003	0.14	
	- 111	19.2	22.3	3.1		3.333	C. CH	
		22.3	25.3	3.0	0 600	0.003	0.36	
		053	000	2-				
			28.3	The second second	1000		0.32	
		28.3		1.0		0.003	0.20	
		The second second second	29.6	0.3		0.003	0.26	
			34.4	2.1		0.003	0.16	-
		34.4	34.9			0.003	2 114	
		34.9	Annual Control of Street,	3.5		C.003	0.26	
			38.4	1 7 7 7		3.303	0.18	_
		38.4	44.8	4.0	The second secon	2.303	0.18	The Street
		40.8	46.3		11000	0.003	0.08	
		46.3	47.5	1.5		0.003	0.06	
		47.5	52./	1.2		0.005	0.15	
		52.1	53.0			800.0	0.28	
		53.0	55.8	2.8	14	0.003	0.16	
		55.8	61.4	5.6		0.003	0.18	
		61.4	62.8	1.4		2.003	0.18	
		62.8	63,4	0.6		0.010	0.26	
		63.4	65.5			0.006	0.16	
			66.0			800.0	0.18	1 2 1 11 11 11
The state of the s		66.0		11		0.012	0.30	
			69.6	2.5	0.	0.003	1,00	
		1.9.6	70.7	1.1		0.003	0.40	
		70.7	72.2	1.5		0.003	0.20	
		722	73.8	1.6		0.008	0.32	
		73.8	74.1	0.3	85	0.603	0.18	
		74.1	75.6	1.5		0.003	0.06	
		75.6	78.0	2.4	27	0.003	0.02	
		78.0	81.1	3.1		0.003	0.02	
					0929		0.10	
		E TENTONIO		SOUTHER)			
					-			
		Same.						
		6772 44			6			22
		1-21/	-	-				

: 3)	OF	3	PROJECT:	SHASTA					HOLE	NO.	33	- 6
	O	_	w		SHITSTILL		ALT	ERAT	_				Γ
4	CORE REC	лтносову	STRUCTURE		GEOLOGICAL DESCRIPTION		Chilbrite				FRACTURE	% VEIN OTZ.	
	8	Ē	STR			A	BU	С	D	E	FRA	7 %	
				556-61.14	ft; dk grange feldepax quarty-colcited stockwork								
	,				quarty-colcited stockwark	1		17			11	1	Ħ
					11.0.11	-11	13/	11	117				H
				614-660	silicified brecciazone; of z-calcito	H	1		17			14	H
- 1			\Box		verns cutting 1st generation	H						H	
		-	-		912 veins ashed breezia (6x) 1627-1632: bx zone with carite blebs similar to those in trench		-		-1-	1			H
					1934-1939: DX 3006 must contre								H
					blebs similar to those in heigh			-	15			11	
				-	83-5, f.gr. quentyose matrix diss'd								H
			-			-11	11		11		-		H
					692-655: bx-stockwork zone.		-			HI	44		H
1					65.5-65.7: bx with calcit blebs.	1			-				
				660-69.4	calcite by zone bounde	g			-				H
			-		by chalcedary, dissiding 1-2% by chalcedary, dissiding by 1-2%	14	- 111				34	-	
		_			671-69.4: silverticed by 30xe, pale					-	-		H
		-			coloured feldepais; rist to stron bleaching; diss'd by 5-10%; streaks dk gtg; 69,2; rhodochrosite?	9			-14			-	H
					bleaching; diss'd by 5-10%; streaks	Ĭ.			71		H		F
					ak 341; 164.3; chodochiosite;			-	19				F
				69.4-70.7	att . silicition or some orange	2			H				F
					given colour -chloritic alkration						11		F
					01		11						
				10.1-128	aft; green to green - orange colour atz-calcite / Exlate vern stockus some veins have streaks of ak grey	٥.			1			-13	H
			-		attacke contente nom stocking	VK.							
			-		same neinz have stream of an dren				+++				
				200 71 2	carpinate							-	
				12.8- 14'0	silicitied by zone; pale orange feldspars, mod-strong bleach patches; streaks dk grey carb.								
					telaspars, mod - strong bleach		1.0	111					H
					batches; streaks ak doed carp.	1		-		111	134		H
				14.0 -8 3.5	att areen to areen or thing		32					-	
		-			Colour; chlarte alteration;		+15	J.E		1		31	
9					+ dr. aisz a ba c. A.D. scattered								
		7 - 10			2+3-con and carcite verns					11			
- 1					(000 - 070; ak grey consenate					-	-		
					sucare in contro of many		1			111	1		
					aft: green to green or winge colour; chlorite alteration; f.gr. diss'd py 6-8%; scattered atz-cal and calcite veins areals in centre of many calcite veins.	11							
		-										11	
				83.5	END OF HOLE			1					
									1-1				
							-12-	11					
- 3				-						1111	11	11	+
						1						1	
				-		-		-		Hi	14		F
						1		5			13	3.7	H

NEWMONT EXPLORATION OF CANADA LIMITED

PROJECT				GROUND ELEV.		
SHASTA .				A CONTRACTOR OF THE PARTY OF TH	30 m.	
HOLE NO.				BEARING	11/1/	-
				120	0	
SH-83-3 LOCATION				DIP	,	
N 7500000 1 NO.0					Ô	
MAIN ZONE (su	rface)			-50	, ,	
					7 m (304	ft)
LOGGED BY			131	HORIZONTAL PRO	JECT	
B. W. Downing	J. Ser	worm	Lein-	25	LN .	
DATE	,			VERTICAL PROJEC	T	
				05	7W	
CONTRACTOR					TERATION SCAL	E
				0 1 2 3		
D. J. Drillin	ng Co.			absent		
CORE SIZE	950 PERSON			slight		
BQ BQ				moder	ate	
DATE STARTED				intense)	
August 26, 19	183			TOTA	AL SULPHIDE SCA	ALE
DATE COMPLETED	,,,,			01234		
	202			traces	only	
August 28, 19	983			< 1%		
None				1% -		
				3% - > 109		
COMMENTS				LEGEND		
	boat trongh	92_11		Specimens		
Purpose: To t	metre 0.668	oz/t Au,	5.33 oz/t	fr m		
(-3	occordinate automotiva		Ag)	(34) 10.		
Mineralizatio	on			(54.9) 16. (56) 17.		
X-14-77-	_	(11 ₄ 17,19) = 47,11,100,100 =	A PANEL SALES AND	(70) 21.	3	
from to	width	Au oz/t		(102) 31. (112) 34.		
21.0 26.2	5.2	0.153	1.69	(149) 45.		
(includes a	section of			(206) 62.		
25.0 26.2	1.2	0.208	2.83)	(256) 78. (275) 83.		4
				(364) 92.		1.40
CLAIM: SHA	#35					
				E.		
				1		

GE	l.	OF		PROJECT:	SHASTA				HOLI	NO	33	-
	S	>	W.				ALTE	RATIO	N		7	Г
0	% CORE REC	ПТНОСОБУ	STRUCTURE		GEOLOGICAL DESCRIPTION	A	chlorite	Spidete	D E	FRACTURE	% VEIN QTZ	
	0			0-3.7	CASING							4
	芙											
	*			3.7-18.6	quartz eye feldspar tutt (aft) scattered quartz calcite écolcite		- 39			Ħ		H
10	-11				veins at 025-0350, lew at 10659						-	
					quartz-eye feldspar tuff (aft) scattered quartz-calcite écalcite veins at 025-035°, tem at 065°; f.gr. olisseminated by 5-10°lo 3.7-168: ak orange feldspars 168-186: light orange feldspars, cock is generally grey-orange colour aft; orange-brown colour rock, silicified							
			1		16.8-18.6: light ordinge feldspars,							
	Ш		H		rock is devisedly died-orande copin					111		
90			~~	18.6-18.9	silicitied brown colors rock,							
									#	##		1
				184-39/4	gst, light orange colour, silicified breceta zone- 195-198: fault, gauge, broker rock							
30			-		19.5-19.8: toult, gauge, broker rock	-			1		11	
					The state of the s							
	- 11			354.354	aft; grey-orange colour							
		-		229-27-7	silicified by zone; pale ovange colon					11	11	
. 40				24.7	manufacte : dier die eine Eine We en ele	Andre ber				111	#	Ħ
. 40	1		-		con sal: dissid argentitela-s	0/		- 12	111	-	4	
	11		~		cpy, gal; diss'd argentite(0 5						11	Ħ
		-	-		by tragment	44			+++			H
					244-26.8: dk grey ato 25.3-25.6: frags. 1000/0 attends						-	
50	0	-			25.3- 25.6: frags. 100°/0 attened ;							
	0				bleached to dirfy grey colour					111		
	1		-		24.5: argentite sceners along	++			1	1++		
	,		-		vein edges.				11		++-	
	5	1	+				-	-				
60		-	-	27.7-48.2	aft; greenish crange; framme ric atz-cal stockwork, reddish selves along most veins	h:					11	
-	144	-	-		a fr-cal stockwork, readish selves	es			1	111	10	H
		-			along most veins	2						H
	11		22		435? faultzone lom @ 065°,				4	1	-1-	
		-			orner serbentine							
	-11	-	1	482-481	pre mineralized faultzme; atz vem vitact in fault atous, Ro	44.				##	41	H
70			-		were intact in fault atous and					444	14	
	- 11				mineralization and slavered & h							
	11				mineralization, rock sheaved & bocemented with garage, serpentur							
					along fractures							
					and wande							
80	11			101-110	124 1 42 42 42 42 42 42 42 42 42 42 42 42 42 42			9 5	9			
				400-04.4	aft; dk orange; light yellow-green				1 4	111		
					flecke throughout (epidote) scattere	•				1-1-		
					913-cakite Seins				1		44	H
	1		1		588-649: numerous flecks and		17			-		H
90		-			blebs lateration of framme,		7				11	
17,17	2				matics) of epidote			711	3 1		11	

	1 100		SAMPLES			11334	ASSAYS	1
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	3міртн	SAMPLE NUMBER	Au	BA	
		m	m			03 F	03/F	
		3.7	7.6	3.9	0930	0.003	0.51	
		7.6	107	3.1	31	0.003	0.16	
		1017	13.7	3.0	32	0.003	0.00	
		13.7	16.8	3.1	33	0.003	0.16	
		_	18.6	1.8	34	0.003	0.12	
		18.6	210	2.4	35	0.003	0.30	
		21.0	224	1.4	36	0.146	0.42	
*			229	0.5	37	0.003	0.12	
The same of the sa		22.9	24.4	1.5	38	0.142	1.80	
	1111	24,4	25.0	0.6	39	0.19%	3.20	
		25.0	26.2	1.2	40	0.208	2.83	•
		26.2	27.7	1.5	41	0.004	0.36	
		27.7	29.0	1.3	42	0.003	0.1%	
		29.0		1,5	43	0.003	0.18	
		30.5	33.5	3.0	44	0.003	0.20	COO I I CONTRACTOR
		33.5	366	3.1	45	6.603	0.10	
		36.6	39.6	3.0	46	0.303	0.14	
		39.6	42.7	3.1	47	D 003	0.14	
		42.7	45.7	3.0	48	0.003 0.003	0.14	
		45.7	48.8	3.1	49	0.003	0.04	725
		48.8	51.8	3.0		2,003 .		
		51.8	54.9	3.1	The second second second second	0.003	0.14	
		54.9	57.9	3.0		0.003	0.16	
		57.9	61.0	3.1	53	0.003	9.20	
		61.0	64.9	3.9	54	0.003	0.04	
		64.9			55	0.008	0.16	
		100.4	67.8	1.4	56	0.006	0.30	
		67.8	69.8	2.0	57	0.003	0.12	
		19.8	70,4	0.6		0.003	0.52	-
		70.4	71.9	1.5		0.007	0.24	
		71.9	728	0.9			0.18	
		72.8	744	1.6		0.010	0.20	
		7/1/4	76.5	2.1	.0	0.006	0.10	
		76.5	78.0	1.5	10	0.003		
		78.0	79.9	1.9	64		0.04	
		_	83.5	3.6	65			_
			86.6	127		0.003	0.06	
		86.6	891	3.1	17	0.603	0.06	
				3.0		0.003	0.03	
		89.6	927	3.1	0968	0.003	0.01	
		-			_	-	_	
				-				
		-	-	-			-	
					-	-	-	
		-					-	

€ 3		OF	3	PROJECT:	SHASTA					HOLE	NO.	83	-
317.7	8	>	щ				ALT	ERATIO	ON			7	Г
	% CORE RE	птносову	STRUCTURE		GEOLOGICAL DESCRIPTION	A	chlorite	Pidate	D	E	FRACTURE	% VEIN QTZ	
					634-649: very broken core due to				Ť			-	F
		-			faulting	-	4		H		-		F
	1			649-65-4	calcite usen (som) a orso change	wat					110		F
					to 900, cuts at vein stockwork	1	- 4						F
					dissid by 2 33%					H			
				65.4-66.4	to 90° cuts atz vein stockwork diss'd by 2 3 1/6 v. broken core, fault zone							-	E
		-								1			ŀ
				66.4-99.7	aft; dk grange; atz-cal stockwork core quite blocky								
		-	-		66.4-66.7: cal-at vers @ 070° rhomb	her	low		11	11		+	t
					calcite grains; dissid py 3-50%, avgentite (0-10%), gal 0-150%, speaks electrum or hative silver								F
		-			avgentite (0-1010), gal 0-5010,					111			t
					specks electrum or Sative silver				1	111			1
					68.4-678: med bleaching							11	t
			-		167.4-67.61 cal-atz bx zone pu 1-2%		7		11	111	77		t
					67.4-67.61 cal-atz by zono py 1.3% 670-69.5: lightyellow green & ammo								t
					throughout, epidote		2	25	11				t
		-			69.8 = amethustine quarts		11		11				E
			1		70.0 - 70.4 : dk a reu by some with avail	inz			Ħ				1
		-			rhombohedral collite, dissiday S-	5%			##			1	1
					argentite ox-1010								t
					70.4.71.9: blocky, faultzono,						Ħ	1	ŧ
					70.4.71.9: blocky, faultzone, 13.0-73.2: cal-qtz byzone, few grains rhombohedral calate; diss'd			111	#			11	ŧ
				1	grams rhombohedral calate; dissid				Ħ			1	1
					Py 2-3%, argentite 0.5-1%	11		111	Ħ			17	Ŧ
					72.5-7314: mod bleashed tragments	.5		T.	ŦF	H		77	F
					74.1-744: broken core, calcute				H	111		4	F
		-			74.4-74.7: silicified bx. zone, grayoff		-		H		H		F
					780-78.3: silicified by zone, gred at	3			11				
					with flecks bematite impartible				Н	-		-	F
					aredaish him to chuartz.				Ш				£
					50.1-817: U. blaky core, faultza	e			tt				1
					88.1-88.5: silicified by zone, moderat	9							t
					bleaching granish-gray gtz.				11			##	t
					few calcite epidote Gractures.				Ħ		1		t
	-		-		90 5 007: was likely some	1			11	13,			t
					92.5-927: very blocky core,	1				115		H	1
					taus jon.				Ħ				1
		-		92.7	END OF HOLE				ш	111			ŧ
				100	LAND OF HOLE	11				11			+
				100		11							1
							111	111			1	11	1
							74					11.	1
1		-	-	-		1				11		11	1
							11						+

PROJECT	GROUND ELEV.
SHASTA	1425 m.
HOLE NO.	BEARING
SH-83-4	0900
LOCATION	DIP
EAST MAIN ZONE (geological-surface)	-50° TOTAL LENGTH 82.3 m (270 ft)
LOGGED BY	HORIZONTAL PROJECT
B. W. Downing Descripting	139N
DATE	VERTICAL PROJECT 72E
CONTRACTOR	ALTERATION SCALE
D. J. Drilling	0 1 2 3 absent slight
	moderate
BQ DATE STARTED	intense
August 29, 1983	TOTAL SULPHIDE SCALE
DATE COMPLETED	0 1 2 3 4
August 30, 1983 DIP TESTS None	- traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS	LEGEND
Purpose: To test trenches 83-16 & 17 and two intersecting veins on surface Mineralization from to width Au oz/t Ag oz/t 12.2 14.9 2.7 0.003 0.12 . CLAIM: SHA #35	(26) 7.9 (40) 12.2 (50) 15.2

AGE		OF	3	PROJECT:	SHASTA					HOLE	NO.5	33.	- 4
	0	_	w				ALTE	RATIO	ON			N	Г
	% CORE REC	итносоду	STRUCTURE		GEOLOGICAL DESCRIPTION		Chlorite	epidote	D	E	FRACTURE	% VEIN OTZ	
		-		0-6.7	Casing, glacial till				Н			-	
	P		#										1
	٢	-		67-7.9	ery broken cove, quarty-eye				H.			#	H
	25			fe	lockpar tuff (aft); dark								
10	00			CVC	ange; quarty-calcite				11			+	
	100			S,	bollwork; dissid py 0-30	0			Ħ				
	95				9				H				
		-		7.9-8.8 9-	ft; dkorange; atz stockwar eccia zone; diss'd by 2-3%	14			3.1	1			1
			-	DY.	socia sove? Aires & AA 3-30	0			H				
20					N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-	H			11	1
				8.8-10.4 d	ft; at stockwork/brecounts; aft fragments chloritis by 2-366; specks cpy, flect emotite; calcite filled condition								
	1		-	30	we; at a tradmente culturals	ed;			11			74	
	1		-	1.8	of 3-300; specks con theco	25		71	-	-			
	1			- h	emotite; calcite filled cowitie	2			#			4	
30			10000000						Ħ			1	
				10.4-14.9	ft; dirty green colour; attered extrueins; py 3-5% attered extrueins; py 3-5% at 070° at 070° at 19.11.4: fault gouge 30% at 19.14.6: why bleached	- 11		11	11			4	1
				50	attered of veins; py 3-5%				T				
				11	3-11.4: 948 vein at 070°				tr	111			
				11.	8-11.9: fault gouge				Ш				
40				19	6-127: ata breecia zone								
		-		10	13-14.6: with bleached				1		111		
	1				3		1		+	111		11	
	1			14.9-18.9 a	It: brown orange cobur:			+++	H		111		
	1			\$	iamme - rich; odd at ver	mt			H				-
50			-	£.0	It; brown orange cobus; iamme - rich; odd oftzver ge. diss'd py 8-10% of zver y-15.8: at \$1 calcute bx 30 ags. chloritized.	1			Н				
30	0			15	9-158: atiff calcite bx 20	A @		1	H			+	1
	0	4-1-1		D	4 2-3%. Specks cou: few			111	н			74	H
	17			£	as chloritized			111	Ħ				
	v				3			111	Ħ		111	44	-
60	0		-	18.9-204 0-	ft: aveen brown a solous high	Lake.			Ħ			4	
دی .				T.	arthured with numerous	13"		1	Ħ				H
			-	0	to hairling fractions		44		H			4	1
			-	3	ft; green brown cokney high actored with numerous to hairline fractures: 0.3: fracture at 075° with			11					
	1			2.2	gr. black sulphides as coati	2			#			41.	
			-	130	y. Diach scriptures as eca .	2		111	#				
70		-		7 010-1100	as 1, 12, around her we calou	7		11					
				acia allo	the organish clots Clarks as	24						#	
		-	-+-		a all ause fair a serior	icio ie	5	11					1
				- N	gr.tuft; grange brown colou ith greenish clots/flecks epi 0 qtz eyes; f.gv. py 8-12%		111	11	H				1
4	1	-				- Kelinda	11	111	1	11	11	11	1
80	1			7118-22-9 0	it i dreenist wands : scotts	vec							1
				Ğ	alcité veins; qt èles dimin amount down wards, abund	IZV		11	H				
	1	-		- Ku	amount downwards, abund	TOLOR	+-	11	-			11	4
			-		amme, py decreases	- 33			-	-1-1			1
			-	3'	amme, py decreases 3.2: shear zone at osso				H	-1-1		7	H
90	I b		-		Icm wide.	-		111	11	111		11	1

LE NO.83-4	HO				15 J	ATE	1175	24	PROJECT:	of 3	AGE 2
		SSAYS			20111112	AMPLES					112.5
		Ag	Au 03/t	SAMPLE NUMBER	Уміртн	то %	FROM	SULPHIDE	ION	MINERALIZA DESCRIPT	
					44.7	***	117	H			
		0.92	0.003	0969	0.9	8.0	P.7	-			
		0.01	0.003		1.6	10.4		111			
		0.08	0.003	ור	1.8	12.2	10.4	1			
		0.12	0.003	72	1.5	13.7	12.2	11			
		0.12	0.003		1.2	14.9					
		0.08	0.003		1.9						
		0.04	0.003	75	2.1	18.9	16.8	H			
		0.10	0.003	76	1.5	20.4	18.9	H			
10.0		0.02	0.003	77	1.8	20.4	20.4	+			
Live Landy	35	0.01	0.003	78	2.0	23.8	21.8	\mathbb{H}			Styles-ye
								+			
		0.10	0.003	979	1.8	65.8	64.0	-			
			30601014			000163076		\mathbb{H}			
						2012		+			
	-		7	Lucies est			Sever 8				
							-				- American
			77.55				2000				
								\blacksquare			
					211/25	Some garden		+			ausper = = A
					Contract of	com and	Service !			Name and Advanced	
					19324			11			
						1		++-			
								-			_ =
								-			
				Lana and a							
				71000-240				-			
								-			
								-			
								-			
WIND SEE SHEET IN	10.000					0.00		H			
								-			
								\mathbb{H}			
	00.0			accuments and		S 7.3					
								\Box			
Control of the Contro							57 - 7 V	\mathbb{H}			E WIEST
						11111		1			
					-			+			
								144			
								#			Ingersa and
				No.				#			Mark Carlotte
	53.5					-		-			
THE PARTY					7500		-	#			
	-	-						1000			

GE 3		OF	3	PROJECT:	SHASTA.					HOLE	NO. §	33.	-4
	2	*	#				ALT	ERAT	ION			7	
	% CORE REC	гиногову	STRUCTURE		GEOLOGICAL DESCRIPTION	A	В	c	D	E	FRACTURE	S VEIN OTZ	
	0	_	0)	337-38 LL	folderer Life scattered					-	-	9.	4
	,			22,4 - 2017	feldspar tuff; scattered calcite veins; abundant lianne	3			苗	Ħ		Ħ	
				38.4 - 45.7	gradational contact of aft		- 17						
					gradational contact of aft with purplish dank brown tuff; specks py; several fr's with gauge/serpentine contings at oco-odo?								ļ
					405: Slip plane at 0900								
				457-483	tuff with small angular marcon fragments								
					aphanitic marcon tuff								
				4	greyish green tull breccia; north exes; f.gr. dissid py 5-10%; scattered calate								
					HIPLIAC								
					48.6, 49.65 clay (fault) zones at 00° 2 ch wide. 53.4: fault gouge 54.2-54.4: f.gr. tuff								
					640-658: WK-mod. bleach 30me Cd6.3-66.6 : fault gouge bx.								
					CG.3-66.6, So tant gonde px.								
				85.3	END OF HOLE								
					The second sector is the second secon								

	LL LOG
ROJECT	GROUND ELEV.
SHASTA	1260 m.
OLE NO.	BEARING
SH-83-5	090°
OCATION	DIP
CDDDY COME (audiona)	-45°
CREEK ZONE (surface)	TOTAL LENGTH
	84.1 m (276 ft)
OGGED BY	
DOGGED BY	
B. W. Downing	635N VERTICAL PROJECT
ONTRACTOR	305W
UNITACION	ALTERATION SCALE
D. J. Drilling	0 1 2 3 absent
	bos
ORE SIZE	slight
BO	moderate
ATE STARTED	intense
August 31, 1983	TOTAL SULPHIDE SCALE
ATE COMPLETED	01234
AND TO THE TAXABLE PARTY OF THE	traces only
September 1, 1983	< 1%
	1% – 3%
None	3% - 10%
	> 10%
OMMENTS	LEGEND
Purpose: To test new trenches at	
	(55) 10 ^m 1
Mineralization	(52) 15.8
from the state to only the	
	(127) 38 7
그래프리카 프로그	(136) 41.5
	1/4.3/ 33.2
	1 07 (224) 66.3
	(276) 84.1
17.	3000000
CLAIM: SHA # 36	
	54
Mineralization from to width Au oz/t Ag 12.2 13.1 0.9 0.078 0 14.6 19.6 1.2 0.659 7 17.5 19.6 4.9 0.776 13 12.2 19.6 2.8 0.403 4	(33) 10.1 (52) 15.8 (60) 18.3 (81) 24.7 (100) 30.5 (127) 38.7 (136) 41.5 7.63 (174.5) 53.2 (224) 68.3 (255) 77.7

PAGE		OF	3	PROJECT:	SHASTA				н	OLE	NO. 5	33.	-5
	8	>	7		The second secon		ALTE	RATIO	ON			Z	
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	A	Chlorite	Spidote	В	E	FRACTURE	% VEIN OTZ	
	0			0-3.7	Casing					Ħ			
	96			07 50	maroon tull					1		#	
	Ĭ			31-58	5.3-5.5: maroon sediments								
- 10				5.8 - 12.2	grey tuff								
				12.2-14.6	silvified gray tuff; sharp contact at 1200 durb a slipplane	3							
- 20					4122.4 by 2-1010					H			
				14.6-14.9	quarty-eye felokpan tuff breccio selicificat, dk grange fragments. gradational contact with	j							
30	100			14.9- 15.7	silkifled off breccia, pale orange frags.								
- 40			1	18.7-17.5	silicitied by zono; divty pale green frage; chlorite								
40						ite.	0-1	90					
50	500				14.6-17.0: dissid py 10-15%, avgent 17.0-17.5: dissid py 5-10%, argentite 2-3% 17.4-17.5: hemalite associated with fractures.								
- 60	35			17.5-19.7	calcite-ruch silvedied by some sharp contacts; py1-3%, argenti	te(5-19	<i>(</i> a)					Ì
					calcite-rich silichied by zone sharp contacts; py1-3%, argenti 195-197: streaks argentite, specks nature silver andlor electrum 1971: slip plane								
70				197-503	aft; we to strongly silveified;								
	100				aft; who strongly silveified; brange to green evange colous; patches mad bleaching ats- calcide calcite stockwork.								
- 80													
27					aft by; light arange colour; atz-calcite stock work; why bleathed.								
					57-625: lost core, blocky, pebble	\$							Ħ
90	1 1	-	-		faulting		++-					++	1

PAGE Q OF 3 PROJECT:	SHE							-	NO. 83-S
			AMPLES				ASSAYS		
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	3 мютн	SAMPLE NUMBER	Au	Aq		
	777	w	·w	m		03/f	03/E		
		110	155	1.2	0980		10.0	-	
		15.5	131	0.9	The second secon	810.0	0.18		
		131	1416	1.5		0.012	0.16		
		14.6	15.8	12		0.592	2 60		
		15.8	175	1.7		0.558	14.44	-	
		17.5	19.6	2.1	85	955.0	13.00	-	
			21.3	1,10	86	2.018	0.50	-	
		21.3	229	1.6		0.020	1.34	-	
		229	25.9	3.0		850.0	0 - 7	-	
			29.0	10.10.10.10.11		0.022	0.36	-	
		24.0	32.0	3.0	40	0.008	0.48		
		320	35.1	3.1	91	0.010	1.00	-	
		22.1	28.	3.0	92	0,004	0.46	-	
			41.1	3.0	- 43	0.063	0.13	-	
			44.3	3.1		0.003	C.22	-	
		44.9	47.2	3.0	95	0.020	0.1%		
			50.3	3.1		0.020	0.12		
		503	53.3	3.0		0.010	0.32		
		53.3	202	3,4	98	0.024	0.24		
			59.7	3.0		0.026	0.25	-	
			628	3.1	1000		0.16	-	
			65.8	3.0	9901		0.28		
		65.8	68.9	3.1		0.003	0.10		
	- 111	68.9	71.9	3.0		0.003	0.12	-	
		71.9	45.0	3.1		0.005	0.64	-	
		75.0	77.1	2.1	05	2,003	0.28		
		77.1	79.2	2.1	06	0.006	0170	-	
		79.2	81.7	2.5	06 07 9908	0.003	0.32	-	-
		81.7	84.1	2.4	9908	0.010	0.84		
						_		-	
							-	-	
		Щ.				-			
				-				-	
			_	_		-		_	
				445	-		-		
	- 11		-				-	-	-
			-	-			-		
			-	-				_	
		_							
			-	-				-	
		-	-		-			-	
					7.3		-		
				-					

3E 3		OF	3	PROJECT:	SHASTA					HOLE	NO.	33.	5
	O		ш		***************************************	100	ALT	ERATI	ON			N	
	% CORE REC	ІТНОСОВУ	STRUCTURE		GEOLOGICAL DESCRIPTION	A	В	С	D	E	FRACTURE	% VEIN QTZ	
					59.7-? coloite-rich by zone				Ē	13	H		+
								itt	##		Tit.	1	
		7		62.5-77.1	aft; green orange colour;								
					+ tranme - rich of flecks and							3.1	
					fracture coatings of epidote							7	
				the state of the state of	throughout "			111	Ħ		111		
					oft; green crange colour; framme-rich; flicks and fracture coatings of epidote throughout 72.2-97.1: calcite vens ocs°	H	H						
					01 1-14	E FY	11						
		-	-	771-811	aft; light avange to green- orange; framme rich; 78.4-78.8: calcite rich by					11			
					crange; training cruck;					-		41	
					78.4-78:8: calcute ruch by				-				
					zone; irregular thin grey bands in centre of calcite veins; epidote thicks fracture								
				Trouble Service	bands in centre of collite	11			##	1		-	
					veins; epidote flecks fracture			1		113		11	
		-	-		coatings.					111		47	-
	3				٥							-11-	
	Ш			Q17-801	aft; Fale green orange;				11	111			
				01.1-04.1	grey pare green orange,								
		-			Par Camme-Orden	-		-					
					835-838: calcite vem cutting		-			111	-	-	-
					dy now specke doiero olund				11			-	
					Jehn edges; then gray can bands in centre of caracte	4			177	111			1
		-			bands in centre of calate					111			
		-			vem (<.25 cm).	111							
											111		1
			-			++							
		-				-		+	#	-			-
				84.1	END OF HOLE								
				O 1	0, 11000	-	H	44	4				
		-				11							
		-											
				_		-	-	+1	-	11		-	
			-1-					41		111			1
										-			-
								H		144	1	-11	
								11.	11				
							111		11		111	1	
												11	1
			-	to Survey Land	THE WASTERS OF THE PROPERTY OF THE PARTY OF	1		10			1	++	-
		-				-11	111				1	11	1
											T.	11	
											TIT	11	
		-				1		14	1	111		11	-
	1	-				11						41	-
						11	15				FI	11	
		- 11	1								H		
9			2012	(++	1-1-1	1	-	+
		-				-			+	111	-	-14-	-

PROJECT					GROUND ELEV.		
SHAST	מיד				1260		
	ın				A STATE OF THE PARTY OF THE PAR	76.	
HOLE NO.					BEARING 0	į.	
SH-8:	3-6				090		
LOCATION					DIP		
CREE	K ZONE (s	urface-sar	me setup as	SH-83-5) -70 ^C		
					TOTAL LENGTH		
						m (197	ft)
LOGGED BY			with		HORIZONTAL PR	ROJECT	
B. W	. Downing			3	635N	1	
DATE					VERTICAL PRO.	JECT	
				(25)	305W	1	
CONTRACTOR	R					ALTERATION S	CALE
1429 52	2.022.0				0123		
D. J	. Drillin	ıg			abs	ent	
	*				slig	ht	
CORE SIZE				- A POST TO	mox	derate	
BQ					inte	nse	
DATE STARTE	D				1444		
Septe	ember 1,	1983			TO	TAL SULPHIDE	SCALE
o-p-	The second secon	The Control of the Co					
DATE COMPL	ETED				01234		
DATE COMPL	ETED		¥		trac	es only	
DATE COMPL	ember 1,		*		trac	%	
Sept. DIP TESTS	ember 1,	1983	. V		trac < 1 1%	% - 3%	
DATE COMPL	ember 1,		•		trac < 1 1% 3%	%	
Sept. DIP TESTS None	ember 1,	1983	*		trac < 1 1% 3% > 1	% - 3% - 10%	
Sept. Sept. DIP TESTS None COMMENTS	ember 1,	1983		02.5	trac < 1 1% 3%	% - 3% - 10% 0%	
Sept. DIP TESTS None	ember 1,	1983	and DDH-SH-	-83 - 5 at	trac <1 1% 3% >1 LEGEND Specimens ft	% - 3% - 10% 00%	
Sept. Sept. DIP TESTS None COMMENTS	ember 1,	1983		-83 - 5 at	trac <1 1% 3% >1 LEGEND Specimens ft (28) 8	% - 3% - 10% 0%	
Sept. Sept. DIP TESTS None COMMENTS Purpose	ember 1, : To test depth.	1983		-83-5 at	trac <1 1% 3% >1 LEGEND Specimens ft (28) 8 (39) 11	% - 3% - 10% 0% m 3.5 L.9 TS	
Sept. Sept. DIP TESTS None COMMENTS Purpose	ember 1, : To test depth.	1983		-83-5 at	trac <1 1% 3% >1 LEGEND Specimens ft (28) 8 (39) 11 (57) 17 (70) 23	% - 3% - 10% 0%	
None COMMENTS Purpose Mineral	ember l, : To test depth. ization	1983		-83-5 at	trac <1 1% 3% >1 LEGEND Specimens ft (28) 8 (39) 13 (57) 17 (70) 23 (94) 28	% - 3% - 10% 00% 5 m 8.5 L.9 TS 7.4 TS L.3 PTS 8.7 TS	
None COMMENTS Purpose Mineral from	ember 1, : To test depth. ization to	1983 st trench width	and DDH-SH-	Ag oz/t	LEGEND Specimens ft (28) 8 (39) 11 (57) 17 (70) 23 (94) 28 (107) 32	% - 3% - 10% 00% 5 m 3.5 L.9 TS 7.4 TS L.3 PTS 3.7 TS 2.6 TS	
None COMMENTS Purpose Mineral from 16.5	ember 1. : To test depth. ization to 27.7	1983 st trench width	Au oz/t	Ag oz/t	trac	% - 3% - 10% 00% - 3 TS	
None COMMENTS Purpose Mineral from 16.5 18.6	ember 1, : To test depth. ization to	1983 st trench width	and DDH-SH-	Ag oz/t		% - 3% - 10% 0% 5 m 5 . 5 TS 2. 6 TS 3. 4 7. 9 3. 2 TS	
None COMMENTS Purpose Mineral from 16.5	ember 1. : To test depth. ization to 27.7	1983 st trench width	Au oz/t	Ag oz/t	trac	% - 3% - 10% 00% - 3 TS	
None COMMENTS Purpose Mineral from 16.5 18.6 OR	ember 1, To test depth. ization to 27.7 19.8	1983 st trench width 11.2 1.2	Au oz/t 0.209 0.610	Ag oz/t 4.47 11.23		% - 3% - 10% 0% 5 m 5 . 5 TS 2. 6 TS 3. 4 7. 9 3. 2 TS	t.
None COMMENTS Purpose Mineral from 16.5 18.6 OR 16.5	ember 1, : To test depth. ization to 27.7 19.8-34.1	1983 st trench width 11.2 1.2	Au oz/t 0.209 0.610	Ag oz/t 4.47 11.23		% - 3% - 10% 0% 5 m 5 . 5 TS 2. 6 TS 3. 4 7. 9 3. 2 TS	
None COMMENTS Purpose Mineral from 16.5 18.6 OR 16.5	ember 1, To test depth. ization to 27.7 19.8	1983 st trench width 11.2 1.2	Au oz/t 0.209 0.610	Ag oz/t 4.47 11.23		% - 3% - 10% 0% 5 m 5 . 5 TS 2. 6 TS 3. 4 7. 9 3. 2 TS	
None COMMENTS Purpose Mineral from 16.5 18.6 OR 16.5	ember 1, : To test depth. ization to 27.7 19.8-34.1	1983 st trench width 11.2 1.2	Au oz/t 0.209 0.610	Ag oz/t 4.47 11.23		% - 3% - 10% 0% 5 m 5 . 5 TS 2. 6 TS 3. 4 7. 9 3. 2 TS	

,	101				ATZAHZ		***		_		NO. 8	_	_
0	% CORE REC	гиногову	STRUCTURE		GEOLOGICAL DESCRIPTION	A	B	C	D	E	FRACTURE	% VEIN QTZ	
	0		-	0-37	Casing	-	-			111			
		-	-		0		-11		++	-	1		+
10	A			<u> </u>	grey fragmental tuff; maron frags (maroon plag, purphyry) specks by								
					4.4.4.6: maroon sediments or figr. tuff, bedding at 0450			Ħ					
			~~	5.8-11.0	grey tuff greenish grey tuff, chloritic scattered delicite veins								
20				11.0 -13.3	scattered delate veins							#	1
									H				
				13.3-16.5	silicified grey tuff; dissid py 5. 135-137: blocky, faultzone, 1cm dk grey gtz. 155-156: fault gouge	-7%							
30			-+-		Irm dk grey atz.			-			-		
50		-			15.5-15.6: fault gouge -ilicified breccia zone; pale to light aft frags; patches mod to string bleaching; dk green - gree atz; he matite of chlorite fr s. a 16.5-16.1: dk grey at cal, can 18.6-19.8: green-grelfth with colorto filled conities; to -15% py 3-5% argentite, specks cpy. 19.8-21.2: numerous vugs with atz xtols, coloite evoded out. 19.8-20.1: white atz, 5-10% py. 19.8-20.1: white atz, 5-10% py. 20.1-21.2: green-greyatz; 10-15% p 21.2-22.3: Shite atz with grey str 21.2-22.3: Shockwark 21.2-23.5: atz by zone 21.2-21.1: at by zone 21.2-21.8: v. broken core, foult 21.8-29.2: atz, stockwork hemolite-chlorite fractures 21.2-29.8: dirty green-grey silificit aft: all frags. Coolo attered, dk								
			1	1105-34.1	silicified breceia some: male to								
	8		~~	10.5	helpt all from satches mad to					H			
	-	-	1		Sarra bleaching dk ann = ann			112	H			#	I
40	S		-		atild matite Scholette from	5				H	11.7	1	1
	0				18 5 16 70 dk aven of cal can	Lie					111	#	F
					18 1-19.8: green - grettith His	110			##	14		#	1
	Ш				calcite lilled countries: 45 75%			-			111	#	Į.
~~					3-5% bragentite, specks could					-		#	-
50	Ш		-		19.8 - 21.9 : numerous 1995 dust	L			-	-1-1		1	-
	Ш				at ytals, colcite evoded out.			1		111		#	-
	Ш		-		19.8-201: white ato 5-10% by	1	-	H		FH		7	-
			-		specks cour 1-2 % avagentite				1			H.	-
60	V	_			20.7-21.2: Green-grey ata: 10-15/0 p	4			1				1
			-		2-30/2 assentite 175	1		44	-	H		-1-	+
	Н				21.2-22.3: Shite at with over st	eak	5					44	H
					223-235: at by some			-	4		144	7	
	Н				23.5.25.3: Stock work	-		-	-	-			H
70			-		25.3 - 27.7 ! at bx 2000	-			-	H			1
70		-			267-268: V. broken core. fault		34	H	-	-	14	-	1
		_	-		21.8 - 29.2: ata stock work			H	-	H	H		F
			-		hemotite-chlorite fractures	11		HE				#	-
			-		29.2 - 29.8 : dirty aveen - arey silifici	h		H			1		-
					29.2-29.8: dirty green-grey silificion aft; all frags. 100% aftered, dk grey atz streaks; hematite-chi tractures, py 2.3%, specks cpy s' argentite 29.8-3111: q-13 stockwork					1	1	7	1
					arey at straks hematite-chi			11	-1-1		1	-	-
					Africaries ou 2-30/2 specks				11	H		1	
					CDU & Orgentite		11	H	H		111	1	
		Total de			28.83 sil : als stockwark					H		11	1
			7		and the second					H		11	
	1 1		-			-	-	-	_	1	1	-	-

3/

AGE Q OF S PROJECT:			STF					HOLE NO.83-6
			AMPLES				ASSAYS	
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	3 МІВТН	SAMPLE NUMBER	Au	Ag	
	- 111	m	m			03/t	03/F	_
The second second		11.0	13.3		9909	0.003	0.08	
		13.3				0.003	0.30	
		16.5	18.6		11	0.308	1.77	
		18.6				0.610	11.23	
		19.8	22.3	2.5	13	0.072	4.17	
		22.3	23.5	1.2	14	0.094	2.94	
			25.3	1.8	15	0.138	2.34	
		25.3		24		3.168	6.13	
		27.7	29.2	1.5		0.058	0.66	
		29.2	29.8	-	18	0.062	0.03	
		29.8		1.9		0.078	0.54	
			34.1	2.4		0.018	0.25	
		34.1	37.2	3.1	21	0.046	0.35	
			38.9		22	0.020		
		37.2		1.7	22	0.00#	0.18	77
		38.9	40.5	1.10		0.005	0.24	_
		40.5	42.7	2.2		0.003	0.22	
		42.7	44.6	1.9	25	0.003	0.23	
		144-6	47.5	2.9	26	0.003	0.14	
		47.5	50.6	3.1	27	0.006	D. 14	
		50,6	53.9	3.3	28	0.020	0.18	
		53.9	54.9	10	29	0-003	2.02	
		34.9	55.8	0.9	30	0.014	1.20	
		55.8	60.0			3.003	2.4	
THE RESERVE OF THE PARTY OF THE								Je Joga I Rosente - parieta -
							-	The same of the same
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				-	-			
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			1					
			and the second					
					R. C.			
					16			
			70000	-				
			_	_		_	_	

5	3 OF 3 PROJECT: SHASTA									HOLE	NO.83-L		
	2	>	ш		The state of the s		ALT	ERAT	ION		7		Г
	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	A	В	С	D	E	FRACTURE	% VEIN OTZ	
					31.5-31]: calate-city by zone. 31.7-341: qty stockwark, nu merau hematite-chi fractures 326-33.2! highly fr'd; possible fault	-	-11-		-	1			
		-			317-341: at stockwork ou mercu					111	-		
	1		11		benefite all fortures					H			
					201 3331 dl 514 - 1 1 1 1								
					200- 225 Higher In at bossien Anti			-					
				200	1 P : 1 - 4 - 1 - 4 - 1 - 1 - 1	1		-		11			
			-	241- 2014	aft; green brown, mod, silicitat 341-37.2: numerous insegulare col- -913 veins, non-mineralized 36.0-364: faut bx gouge zone breezested cabite vein, no mineralization	ion		15	-1		100	-11-11-	H
					341-37.8: numerous megulare co	CHA	\mathbf{H}	-1-1-	- 1				H
					-912 veins, non-mineralized		44			17.5		41	П
					36.0-364: faut bx gouge some					111			
			-		preceded cabite usin, no minero	1-				111	1		
					isation	H				1			H
					368-369: broken care, blocky. faul	+						-	F
	}				9	1000							
				200-1411-	all 1 dt coddel accesses	111							
			-	שידריאים	gre; light recaise crange;	+++			11	-	1-1-1	-	-
***					38.4-402: 2+3 STOCK MULK	1			-			-	
	1				aft; light reddish orange; 38.9-405: atz stockwork 40.5-44.6: scottered atz veins	-					100	1	H
						TIT.							
				44.6-53.9	aft; brown-orange colour;								
	H		-		abundant fiamme scattered	1		-	1		-	++	
	H				colcite (± a+) veus oss-0650				11	\mathbf{H}			H
		-			aft; brown-orange colour; abundant fiamme; scattered calcite (1912) verns 055-065° scattered batches epidate alteration, associated with larger	44-					-	-110	
				7/2 1977	alteration associated with large						111		
				III III III	fiamme				111			111	Ħ
					Tiamm								
			-		-0	111			++	111			Н
			-	53.9-60.0	get i reddish brown to orange;	+++	-	-	1	-	-	-	
					States epidote 55.4-555: chalcedonic (green gray) 9th vein with blebs calcite 57.7-58.1: calcite vein 58.8-59.0: colcite vein innegate greenish chlorite hairline firs 58.1-58.8: tew amethystine guartz veins.	H						44-	
					55.4-555: chalcedonic (green gray)				11				
					att vein with blebs calcite				11			111	
					57.7-58.1: calate vein								
		-	-		58.8-59.0: calcite vein inegal	ir		1					
	l	-			areenish chlorite hairline fors			-	-	1	117		H
					Osperks au galena			13	-		-		H
- 3					581-50 8 1010 amotherstine	1	111	111			LIL	III.	
				*******	Jon Vard . Tax directings into			11		ш			
					quariz seus.			H				115	
)			11	-				Н
	1				5 - 11 - 5			1					H
				60.0	END OF HOLE				11	111		-11	F
						11		11					
						1	11	111	1			111	
		-				11			-				-
				V 100			++	-					F
								16		111		11	F
						11	17	25.7			13		
1													
						110			1	11	111	-	H
	1 [77			13				

PROJECT					GROUND ELEV.
SHAS	מיים				1245 m
HOLE NO.	711				BEARING
SH-8	3-7				090°
LOCATION	55-7				DIP
LUUNIUM					
CREE	EK ZONE	(surface	:)		-45 ⁰
					TOTAL LENGTH
					57.3 m (188 ft)
LOGGED BY					HORIZONTAL PROJECT
B. V	. Downi	ng	JUF-	Linn	660 N
DATE	e manne	-			VERTICAL PROJECT
					W 100 Per 1000
CONTRACTO	50				330 W
CONTRACTO	an .				ALTERATION SCALE
D. 3	J. Drill	ing			0 1 2 3
					l wa l l
CORE SIZE					slight
BQ					moderate
- 7					intense
DATE START					1444
	tember 3	, 1983			TOTAL SULPHIDE SCALE
DATE COMP	LETED				01234
Sent	tember 4	. 1983			traces only
DIP TESTS	COMMON T	, 2000			< 1%
					1% – 3%
None	2				3% - 10%
					> 10%
COMMENTS					LEGEND
Purpose	e: To	test ext	ension of	Creek Zone.	
					ft m
					(56) 17.1 (69) 21.0
Minera	lization	í			(69) 21.0 (80) 24.4
TITHEL C.	LILUCIOI	÷10			(82) 25.0
from	to	width	Au oz/t	Ag oz/t	(103) 31.4
				1 00	(111) 33.8
20.0	24.7	4.7 1.6	0.077 0.078	1.06 0.68	(143) 43.6 (188) 57.3
	43.0	6.1	0.056	4.65	12007
313 4	45.0	0.1	0.000		1
36.9 OR		13.7	0.037	2.60	
OR 32.0	45.7				
OR	45.7				
OR 32.0		36			
OR		36			

AG	E \	E OF 3 PROJECT: SHASTIA																	
	1117-11-	O		ш	10.4	V		ALT	ERAT	ION		1000	7						
	0	% CORE REC	гтногоду	STRUCTURE		GEOLOGICAL DESCRIPTION	A	В	С	D	E	FRACTURE	% VEIN OTZ						
		0			0-3.0	Casing					111			1					
		1			3.0-11.9	purplish grey tuff													
					1 9-19.5	francestal tulli marray					Ħ	111							
. 10	10	-			11.2	fragmental tuff; maroon feldspar porphyry frags., matri becomes greenish from 13.4 b 19.2 - chloritic 15.1-15.21 minor brecciation	*												
	20			~~															
	100	100		~~		19.6-19.8: faultgrige, broken cove													
	30	- 95 -			20.0-21.8	aft; deep reddish grange; disseminated white internal (barite or anhydrite?)													
				~ ^	-	()	ćs.												
	40						silicified breccia zone, streat grey city; rale orange to green. France fragments dissid Ry 3-5%; argentite 0.5-1%												
							~^		29.3-\$%; Orgentite 0.5-1% 22.4-23.6: greenish grey 9tz; Py 3-5%, argentite bondat both ends of 9tz vein 25.8-25.9: fault gouge										
	50			~ ^		25.8-25.9: tault gouge													
	60	¥				aft; silicified; atz stockwork; light brown orange to green - orange colour; patcher modito strong blear hing 297-3012; grey atz 31.5-317: facilt gouge													
	40					31.5-317: facity of 3													
					32.0-34.4	aft; silicified; brown avange; mod. blearling; scattered oft; news.													
			The second second	Contract of		The second				34.4-36.9	aft; silicified; reddish orange								
		100 mm (mm)				aft; silicified; reddish orange phtches breceintion and aft; stockwork; scattered irredular atz-col-chi fr's veins stom.													
		Secretary and			369-45.7	9ft; silicified; green crarge to crange; numerous short zones of gty-cal-chl-epidote													
						zones of aty-cal-chl-epidote						H		E					

		AS	AMPLES		4.5		ASSAYS		
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	3 міртн	SAMPLE NUMBER	Au	Ag		
	111	m	m	m	0000	03 t	as f		
		19.5			9932		0,10		
			21.8	1.8	33	0000	0.42		
		21.8	22.9	1.1	34	0.068	2.76		
		22.9	24.7	1.8	35	0.070	0.72		
			26.5		36	0.036	1,60		
		26.5	28.0	1.5	37	0.003	0.30		
		28.0	29.6	1.6	38	0.078	0.68		
		29.6	31-1	1.5		0.010	0,30		
			32.0	1.1	40	0.006	0,25		
			34.4		41	0.020	0.60		
			36.9			0.026	1.24		The system of the
			39.9		42	0.040	2.70		
		29 9	43.0	2.0	1 110	0.030	6.60		
			45.7			0.072	1.02		
				2.2	113	0.020		-	
		43.1			46	0.000	0.18	_	
		41.4	50.9	3.0		0.022	0.44	-	
		20.4	53.0	2.1	48	0.018	0,18	-	
		53.0	57.3	4.3	9949	0.010	0.40	-	
	1111								
				your.					
				4,40,149	olus assess				
	711				Aug - U				
	- 11								
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	- 111						-		
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					The same of				
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	OF	3	PROJECT:	SHASTIA				Š	HOLE	NO. S	33.	
% CORE REC	гиногову	STRUCTURE		GEOLOGICAL DESCRIPTION			ERAT			FRACTURE	% VEIN QTZ.	The state of the s
38	5	- ES	-	1127-1139 : Pault 201108	A	В	С	D	E	EΞ	8	
		-		43.7-439: fault gouge			H		11		11	
,			45.7-47.9	aft; willy silveitied; orange; and calcute vein; at 075°								
				odd calcite vein;			4		H			
				47.0; slip plane at 075°						1		
											1	
			47.9-53.0	aft; wkly silicified; light reddish orange; scattered aty-cal-chi-edidote zones.		TIT.	112			11		
				reddish orange; scattered							11	
		-		aty-cal-chi-edidate zenes.	曲				111	HT		į
		-		152,1-52,3: fault gouge	H							į
				00						##		Ì
	-		53.0-57.3	aft; brown crange;						Ш		ľ
		1		gft; brown crange; epidote conted frontures, 53.6-53.7: gtz-cal breccia	-		111		111	111	#	
				53.6-53.7: 9-12-cal breccia		117		H	Hi		1	
				some of 0800		H	111	1				ļ
	-	-			111		111		111	111	H	ļ
	-				41	1		H	H	114	4	1
	_	-	57.3	END OF HOLE	-11		11-	H	-	-	4	Ī
		-			111-		-				1	ļ
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			-				11					
			-		11					111	1	-
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7									111		1	Ì
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			1				11	H	H	11	-	1
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		-		- Allower						11	-	
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DRILL LOG

PROJECT	GROUND ELEV.
	7.75.75.75.75.75.77
SHASTA	1280 m
HOLE NO.	The state of the s
SH-83-8	090 ^O
LOCATION	(FESA)
CREEK ZONE (surface)	-45°
CAEER BONE (BULLECO)	TOTAL LENGTH
	56.7 m (186 ft)
B. W. Downing	HORIZONTAL PROJECT
B. W. Downing	596 N
DATE	VERTICAL PROJECT
	310 W
CONTRACTOR	ALTERATION SCALE
	0123
D. J. Drilling	absent
	slight
CORE SIZE	moderate
BQ	intense
DATE STARTED	
September 4, 1983	TOTAL SULPHIDE SCALE
DATE COMPLETED .	0 1 2 3 4
September 5, 1983	< 1%
DIP TESTS	1% - 3%
None	3% - 10%
	> 10%
COMMENTS	LEGEND
Purpose: To test extension of the Creek	Specimens
Zone	
a de la companya de l	ft m
Mineralization	14.6
	29.9
from to width Au oz/t Ag oz/t	(136) 41.5
32.0 32.0 0.5 0.150 13.14	(163) 49.7 (186) 56.7
	(130)
7.	
	- 1
CLAIM: SHA # 36	

GE \		OF	2	PROJECT:	SHASTA					HOLE	NO. 8	33	- 9
	EC	>	¥				ALTE	RATIO	NC			Z.	Γ
0	% CORE REC	итносоду	STRUCTURE		GEOLOGICAL DESCRIPTION	A	Blorite	epidete.	D	E	FRACTURE	% VEIN QTZ	
	0			0-3.7	Casing				H				
				27-219	otales Lovettes 22.1 tower	111			Ħ			11	F
				3.1 -5.1	grey tuff; scattered calcite	111	14.		#			11	t
10		-	-		muneralized;	1		11	77.		111	1	F
10					189-219: green-grey tuff, chlori	4e		1	H	+	-	-	F
	100				20.7.219: Otulf becomes				H				
			Ħ		fine-nedium grained.				Ħ				
00		-	-	21.9- 22.0	silicitied arey tuff. disseminat	A			Ħ	-	111	#	F
20		= -	-		silicified grey tuff; disseminat	1	-	1	++	-	11	4	F
	45		2	00.0-22.1	fautt gouge	++	-		H				F
			-			1		+	4			11	E
	1			22.1-28.7	quartz eye feldspar tuff (qft)	;			ti				
30					Feddish Grange; silicitied;				Ħ			1	E
5 K	11	_			quartz eye feldspar tuff (qft) Feddish Grange; silicified; quartz stockwork.	111			Ħ	11			F
			- 1	Live and the second			344	111	11	11			F
	Ш			28.7-32.0	aft; green-brown orange colour; why silkified, odd	1			Ħ	H	111	4	F
	0				, COLOUR! WHA ZINCITIED BAY	H		-	Ŧ	4			
40	2				2+3-calcite vem				Н			-	F
	56	_		200-225	calcite win it alt love								
	1			22.0 -24.5	calcite vein with aft frags diss'd py 2-3%, argentite	1			Н				
	Ш				1-20/2: Rating silvers and low	144			#	#			F
					electrum (flakes)	111	11	111	Ħ		H.	77	F
50	Ш	-	-			H	11			-11		+	Г
	Ш			32.5-38-9	aft; brownish orange, med				H			1	
	1				silicified; scattered Etz-cal	1			ti			11	E
					veins; rumerous frattures	1							E
60					35.4-36.1: strongly silicified			111	1		111		L
					aft; brownish orange, med silicified; scattered fitz-cal veins; numerous frattures 35.4-36.1: strongly silicified streaks gray quartz				Ħ				
	1			38.9-41.8	aft: moderately silicified:	-		+++	H.	1	1		F
					politices ofthe stockwork;	1		11	H				
	1		1		'calcite # 972 + chl veins.	111	+++		1		-		L
		-			39.2-39.5, 40.72410 : calcite	111			H				
					aft; moderately silicified; politices at 3 stockwork; calcite ± 972 + chl veins. 39.2-39.5, 40.72410; calcite breccia, aft frags. altered (chl)				Ħ			Ħ	
	1	-		41.8-56.7	aft: green-brown avance:	111			Ŧ				
	1		-		aft; green-brown avange; scattered calcite = atz Beins 49.1-36.7: epidote associated with veins and fractures	1	4.1		H				F
	1				49.1-36.7: epidote associated	1	11						
			1		with vein's and fractures	H			H	11		+	H
	1					11		1				#	
			-	56.7	END OF HOLE				tit.				
	1 1						-	1	Ħ	11	11	116	

erangement and the

IGE 2 OF 2 PROJECT:	>		+ 57		-			HOLE NO. 83-8
	w	S	SAMPLES			-	SSAYS	
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	Зміотн	SAMPLE NUMBER	Au	Ag 03/t	
	- 111	m	m	m		0316	0316	_
	- 111		5.0		0050		-	
	$-\Pi\Pi$	18.9	21.4	3.0	9950		0.06	
	$-\Pi\Pi$	21.9	23.8	19	21	0.003	0.214	
		23.8	25.9	2.1	52	0.005	0.27	
		25.9	2007	1.2	53	0.028	0.30	
	- 111	27.1	28.7	1:10	24	0.020	0.42	
		20.1	32.0	3.3	23	0.003	0.10 13.14	
		25.0	32.5	0.5	36	3.150		
		32.5	33.8 35.4	1.3	51	0.003	0.96	
		25.8	2/ 0	1.6	28	0.002	0.27	-
		33.4		1.5		0.010		
		20.7	38.9		90	0.004	0.20	
		38.7	40.5	1.6	61	0.005	C.142	
		40.5	41.8	1.3	90	0.010	0.74	
	- 111	44.8	44.8	3.0	(0.3	0:014	0.70	-
		44.8	47.9	3.1	64	0.003	0.22	
	- 111	41.9	50.7	3.0	65	0.004	81.0	
	- 111	50.9	53.4	25	00.47	0.005	0.08	
		53.4	56.7	3.3	9967	p.003	0.10	
	- 111	-	-	-	-		-	
	- 1111	-	-	-	-		-	
		-	-		-			
		-	-	-		-		
		-		-	-	-		
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	- Indone	-						

1		OF		PROJECT:						HOLE	NO.	5	1
1	2	>	w		- K		ALT	ERAT	ION			K	T
000	% CORE MEC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	A	В	c	D	E/	FRACTURE	% VEIN OTZ	
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are the same

NEWMONT EXPLORATION OF CANADA LIMITED

DRILL LOG

PROJECT					GROUND ELEV.
SHASTA					1280 m.
HOLE NO.					BEARING
SH-83-9	9				060°
LOCATION			-		DIP
17 Street Barber 17 St				PPI 01	-70°
CREEK 2	ZONE (sur	riace-sam	e setup as	DDH-8)	TOTAL LENGTH
					LUSTING THE PROPERTY.
LOGGED BY					64.6 m (212 ft) HORIZONTAL PROJECT
LOGGED BY		5	and Dow	prin	TIOTIZOTTIAL PROSECT
B. W. I	Downing			7	596 N
DATE					VERTICAL PROJECT
					310 W
CONTRACTOR					ALTERATION SCALE
					9123
D. J. I	Drilling				absent
					slight
CORE SIZE					moderate
BQ					intense
DATE STARTED		D'ATA-II			A A A A A A A A A A A A A A A A A A A
Septemb	ber 6, 19	983			TOTAL SULPHIDE SCALE
DATE COMPLET	TED				01234
Septemb	ber 7, 19	983			traces only
DIP TESTS	and the same of th				< 1%
					1% – 3%
None					3% - 10%
					> 10%
COMMENTS	11 -5				LEGEND
			sion of th	on Crook	Specimens
Purpose	Zone		iston of th	ie creek	
	Zone				m 8.5
					18.6
	1:				24.1
W1					28.0
Minera	lization				36.6
Minera from	to	width	Au oz/t	Ag oz/t	
from	to				42.7 59.1
from 25.3	to 25.79	0.4	0.046	1.32	42.7
from 25.3 47.5	to 25.79 58.1	0.4	0.046	1.32	42.7 59.1
from 25.3 47.5 *52.7	to 25.79 58.1 54.3	0.4 10.6 1.6	0.046	1.32	42.7 59.1
from 25.3 47.5 *52.7	to 25.79 58.1	0.4 10.6 1.6	0.046	1.32	42.7 59.1
from 25.3 47.5 *52.7	to 25.79 58.1 54.3 des a se	0.4 10.6 1.6 ction of	0.046	1.32	42.7 59.1

AGE \		OF	3	PROJECT:	SHASTA					HOLE	NO. 5	33	0
	0		w		- 11.13 1.14		ALTE	ERATIO	ON			N	
OErin (m)	% CORE REC	гтногосу	STRUCTURE	3+	GEOLOGICAL DESCRIPTION	A	ch lor ite	epidote	0	E	FRACTURE	% VEIN QTZ	
	0	-		0 - 3.0	Casing				13			-	
									Ш				-
	1		+	3.0-25.3	grey tuff 1919-1501 fault gouge, 0750 21.0-229: highly fractured several slip planes	1			11				
					149.45,01 fault gouge, 0750		- 3		Н			+	
10			-		21.0-229: highly fractured				++				-
10					several slip planes		-+-		**		44		-
		-			several slip planes 20.7-25.3: green grey tuff, chlorite alteration. 24.1-25.3: f-m.gr tuff, silicitied, dissid py 2-3% 25.0, 25.5: fault gouge < 2 cm. wide.	11			1				-
	100	-	~~		chlorite alteration.	++			14	Ш	-111	-	
		-	-		241-25.3: f-m.gr tuff.	-			-		111	-	
22				TOTAL	silicified, diss'd on 2-3%		-1-		H	-	+	-	-
- 20					25.0 , 25.5 : fault gauge	+	-	1	H	111	111		
				ma da is	< 2 cm wide.			1	11			4	
	80	-	~~			44		111	11			#	
				253-259	quartz-eye feldspar tuff (qff silicified; brecciated, frags 100010 altered; streaks and				77			-	
	95			40.0	sticitied: brecciated frank	1			Ħ			41	Π.
30	90		≈≈		unole altered; streaks and	4			17	111	1	-	
			-		irregular this bank area augus	2			1		-11		
			-		irregular thin bands grey quar streaks greenish 913, diss'd py 3-5%, argentite <1%	8		111	12	111	11		
			~~		dissid = 0 3-5 % avantile 51%	#		111	11			1	
0.01				The same	aissor by a so tardenine in			111	Ħ	111	Ħ	#	1
- 40			~~	259-27.4	aft. Lighty fractioned: anakto				Ħ	111			4
				23.1 2/21	aft; highly fractured; quarts			111	##		11	#	
	loa				SIBERGOFIE	11		111	17		111	##	
				201-299	aft: manage 'aumerais	11			II	111	111		
				ans and	aft; orange; numerous irregular chloritic fractures				Ħ			Ш	
50	1				calate/ gtz-cal veins @	•		111		111			
		-			Catate 1 d. 13 - car sens (0)	11		111		111	11		
	П				009.000				苴	11	11	11	
		-		200-00 5	Co 14 co c 1 co c 4 co c c	111				111			
				ann 3015	major fault zone; sand, gouge								
60					mineralization								
					mineralization			111	計			1	
-	H		-	255-217	11 - 2 - 12 - 13 -					11		1	
		-		20.2.211	aft, crange, similar to				H				
					1				1	-			
40				217-770									
				21.1-21.4	die diande to dien-dien	14	1						
	1		-		orange; sincities, partities		11		H				
					aft; orange to green-grey orange; silterfied; patches wh mod bleaching; scattered atz-cal calcite breezin zones up to 20cm unde with py sargentite; scattered atz veins with py sargentite 37.5-37.7; strongly bleached 30.5-37.1; fault gouge	+1			1			+	
		-			d+3- cal carcile precen some	++			H			11	
-15	1				ind to go ch muse mith by	11						diam'r.	
					= argentite;			11	H		-1-1-	-	
			-		scattered off name with	14	-111	-	H		11		
			-		py sargentite	17	-111		H			H	
			-1-		37.5-37.7: strongly bleached	H	311		Ħ			11	
	1 1				37.5.37.6: fault gouge.	75.0	15.2		tt	111-1-	1111	11	

AGE Q OF 3 PROJECT			STF	1		-	ASSAYS	HOLE NO. 83-9
	۳ ا	. 8	AMPLES	-	SAMPLE	-		$\overline{}$
MINERALIZATION DESCRIPTION	TOTAL	FROM	то	ЗМІРТН	NUMBER	Au 03/4	Aq	
		m	m	m	201.0			_
		24.1	25.3			0.003	80.0	
		25.3	25.9	0.6		0.046	132	
		259	27.4	1.5		0.006	0.28	
		27.4	299	2.5	71	0.003	0.24	
		30.5	31.7	1,2		0003	0.28	
		31.7	32.9	1,2	73	0.003	0.50	
			34.1	112	74	0.018	1.32	
-A1	1	34.1	35.4	1.3	75	0.006	0.42	
		35.4	36.6	1.2	76	0.010	0.50	
		36.6	37.9	1.3	77	5.010	0.65	
		37.9	40,2	2.3	78	0.065	0.08	
		11150	43.0	2.8	79	0.022	1.02	
		1.0.0	111 6	3.0	C/	0.00	0.30	
			46.0		00	0.010	0.25	
		46.0	47.5	113	00	0.010	1,02	
				1.6	0.4	0.140		
		49.1	50.6	1.5	83	0.052	0.90	
Cara and the caracter of the		150.6	527	2.1	84	0.012	0,40	
		527	54.3 56.4 58.1	1.6	85	0.270	12.75	
		154.3	56.4	2.1	86	0.068	3.74	
		56.4	58.1	1.7	8/	0.170	5.50	
		158.1	60.4	2.3	88	0.022	0.96	
		60.4	62.8	12.4	89	0,003	0,20	
		628	64.6	1.8	9990	0.00	035	
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No. 27 - 128 No. 28 - 12	111		1			1		
							RO	

3	0	F 3	3	PROJECT: SHASTA					HOLE	NO. {	33	.0
D.	3	-	W.			ALT	ERAT	ION			7	Г
CORE REC	2000000	SOUL OF THE PROPERTY OF THE PR	STRUCTURE	GEOLOGICAL DESCRIPTION	A	В	С	D	E	FRACTURE	% VEIN OTZ	
			3	7.9-46.0 aft; green orange to orange; Why Silicified; scattered atz-cal calcite veins; patches who mad bleaching 405-40.6; 40.7-408; fault								
	F (1) 1 (1)			gouge is stor		45	To the second					
				bo-58.1 aft; avange to reddish orange, highly fractured; wk mod. bleath patches; serpentine along fractures. 52.7-54.3: breaciazone; py 2.3% spects argentite 0.5-1%, 53.4: calcite vem @ 070°;	٥							
	1100011		5	B.I-60.4 aft; green-brown to change; patches mod-strong silveifield; scattered atz-cal veins with by a argentite; epidote fractures	on;							
				py i argentite; epidote fractures 0.4-64.6 aft; green-brown orange; odd talcite vem; epidote along fractures								
	1			epidote along fractures								

APPENDIX II

STATEMENT OF EXPENSES

Labour

B. W. Downing (geologist) 23 days @ \$163.50/day = \$3,760.50 P. Bohme (assistant) 23 days @ \$60.00/day = \$1,380.00 M. Schlosser (cook) 23 days @ \$97.50/day = \$2,242.50

\$ 7,383.00

Transportation/mobilization

B. W. Downing/P. Bohme (Vancouver-camp-Vancouver = \$ 900.00 Helicopter 18.5 hrs @ \$540/hr = \$9,990.00 \$10,890.00

Drilling

D. J. Drilling Co., Surrey, B.C. (9 holes, 674 metres)

\$51,778.50

Assays

231 assays @ \$14.25/sample

\$ 3,291.00

Room & Board (Camp Costs)

B. W. Downing/P. Bohme/M. Schlosser 23 x 3 man/days @ \$40.00 man day drill crew (4 men) 23 x 4 man days/\$40.00/manday

\$ 2,760.00 \$ 3,680.00

\$ 6,440.00

Miscellaneous

diesel fuel 12 barrels @ \$86/barrel

\$ 1,032.00

Report Preparation

490.00

\$81,305.25

APPENDIX III

STATEMENT OF QUALIFICATIONS

I, B. W. Downing, am a graduate of Queen's University with an honours B.Sc. in geology (1970) and a M.Sc. in geology (1973) from the University of Toronto.

I am a fellow of the Geological Association of Canada since 1978 and a member in good standing with the Canadian Institute of Mining and Metallurgy.

I have been continuously employed in mining exploration work since 1974.