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PHYSICAL WORK AND DIAMOND DRILLING REPORT

ON THE
PUL, SUN, AND STAR CLAIMS
(ACAPULCO GROUP)
TOODOGGONE RIVER AREA
OMENICA MINING DIVISION, B.C.
94E 2W
(57°12' N. Lat., 126°55' W. Long.)

8/88

FOR

FILMED

CHENI GOLD MINES INC.
STE. 2101 - 1055 WEST GEORGIA STREET
VANCOUVER, B.C.
(OWNER AND OPERATOR)

BY

DONALD C. PLECASH,
ROBERT E. REID, B.Sc., F.G.A.C.,
MOHAN R. VULIMURI, B.Sc., M.Sc.,
AND
KELLY L. ILLERBRUN, B.A.Sc.

MARCH 1988

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,463

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INTRODUCTION

General

A grid was established on the property for which a total of 13.2 line kilometers were cut by Van Alphen Exploration Services for Cheni Gold Mines under the direction of company geologists. A total field magnetometer survey was conducted over the southern portion of the grid to delineate the geological contacts in the area and provide a guide for spotting drill holes.

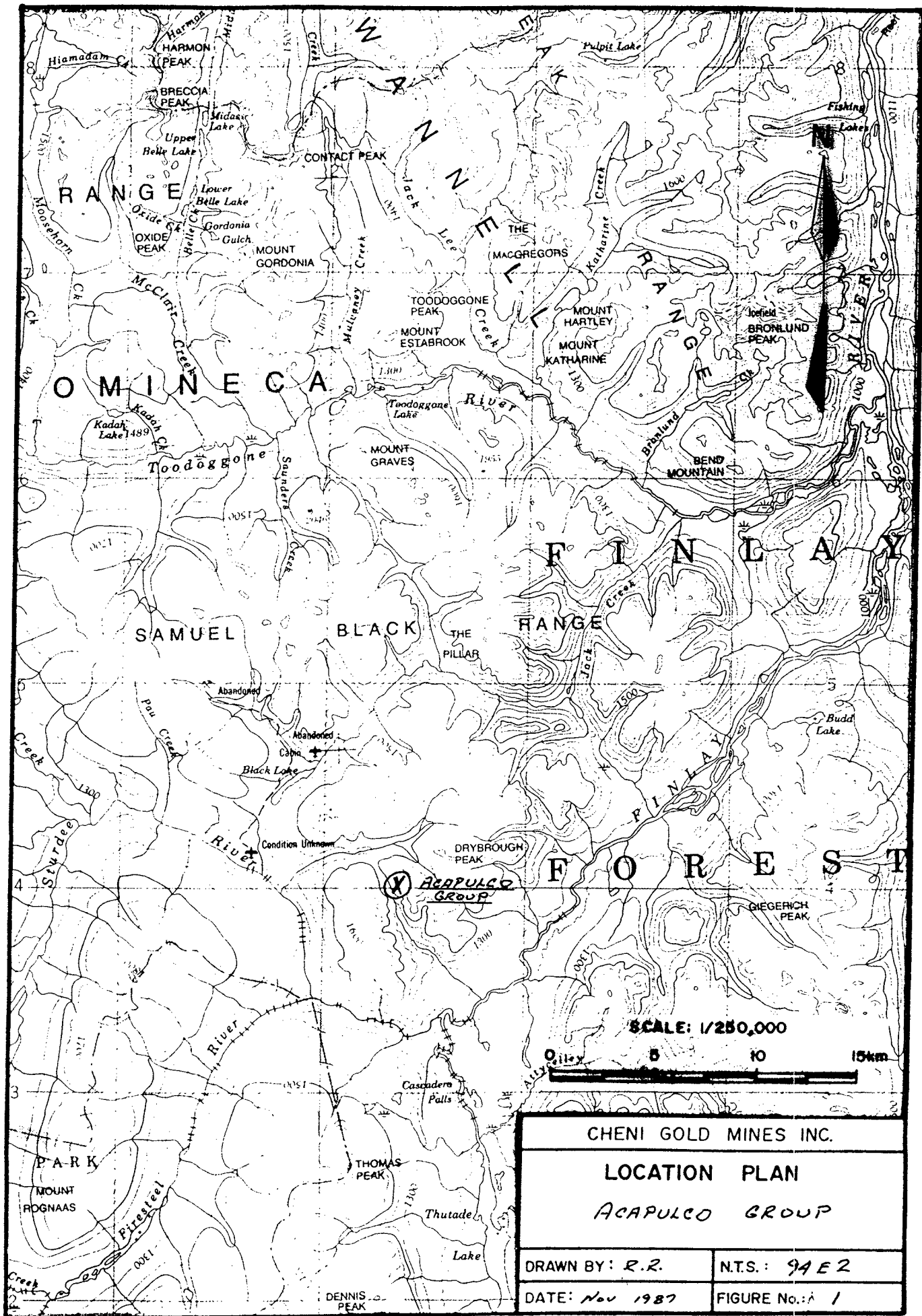
A diamond drilling program was carried out on the property during the 1987 field season by D.J. Drilling Ltd. for Cheni Gold Mines under the supervision of company geologists. A total of 864.67 meters of BQ core was drilled.

Logging of the diamond drill core was done by Donald Plecash, Robert Reid, and Mohan Vulimiri; geologists employed by Cheni Gold Mines. The diamond drill core is in storage at Cheni's Lawyers property.

Location and Access

The Acapulco claim group is located between $57^{\circ}11'$ and $57^{\circ}13'$ N. latitude and between $126^{\circ}52'$ and $126^{\circ}57'$ W. longitude in the Sturdee River - Finlay River area, Toodoggone River Map Sheet, 94E 2W, Omenica Mining Division (figures 1 and 2).

Access to the property is by fixed-wing aircraft from Smithers to the Sturdee Valley Airstrip, a distance of 280 km, from Sturdee Valley to Cheni's camp by road, a distance of 35 km, and from Cheni's camp to the property by helicopter, a distance of



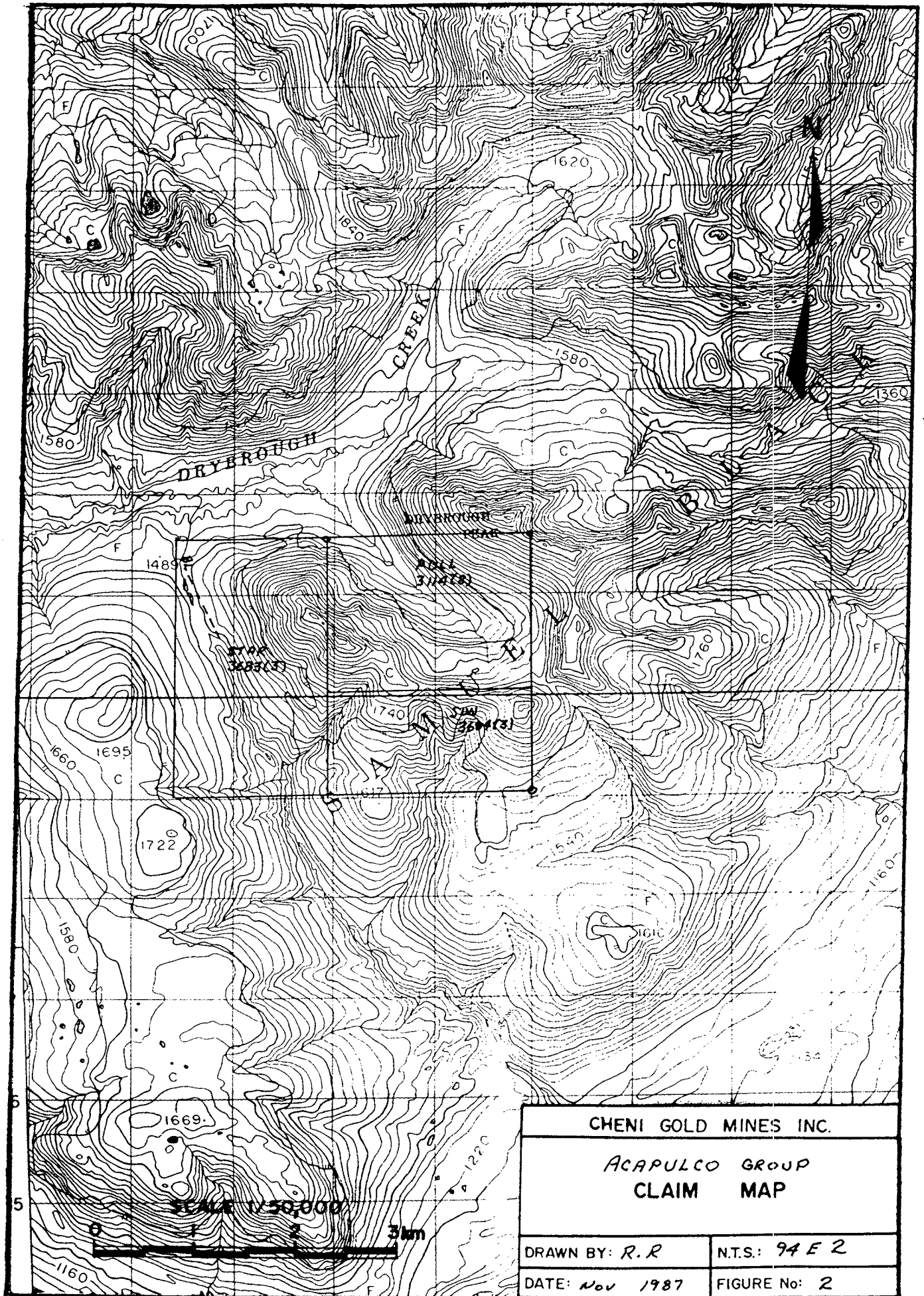
CHENI GOLD MINES INC.
 LOCATION PLAN
 ACAPULCO GROUP

DRAWN BY: R.R.

N.T.S.: 94E2

DATE: Nov 1987

FIGURE No.: 1



CHENI GOLD MINES INC.	
ACAPULCO GROUP CLAIM MAP	
DRAWN BY: R.R	N.T.S.: 94 E 2
DATE: Nov 1987	FIGURE No: 2

25 km.

Physiography

Topography is moderate to steep; elevation ranges from 1400 to 2065 meters above sea level. Treeline occurs between 1520 and 1650 meters above sea level. Outcrop varies from 50 to 100 percent on the mountains, and is confined to a few small gullies on the lower slopes and valleys. Glacial till forms undulating topography in the valleys.

Property and Claim Status

The claims (figure 2) are owned and operated by Cheni Gold Mines Inc., Box 11175, 1055 West Georgia St., Vancouver, B.C. Upon acceptance of this report the Pul claim will be in good standing until 1997, and the Sun and Star claims will be in good standing until 1999.

The claims consist of the following:

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Pul	12	3114	Aug. 15, 1980
Sun	8	3684	Mar. 26, 1981
Star	15	3683	Mar. 26. 1981

Property History

Previous work in the area consists of exploration for copper and molybdenum by Cordilleran Engineering in 1968 and by

Mines de Cerro Dorado in 1973.

In 1980 Cheni Gold Mines conducted silt sampling of the streams draining the property, grid soil sampling, and preliminary geological mapping and prospecting.

In 1982 work consisted of detailed geologic mapping and intensive prospecting over the limestone - intrusive contact area. Minor gold - bearing magnetite-chalcopyrite skarn float was found.

In 1985 a VLF electromagnetic survey was conducted to delineate the western limestone - intrusive contact. Hand trenching of the skarn returned values of up to 0.78 oz/ton gold.

Bulldozer and backhoe trenching of the contact area in 1986 failed to reach bedrock.

GEOLOGY

The claims are underlain by Permian Asitka Group limestones and Lower Jurassic Omenica intrusions.

The Asitka Group consists of mainly recrystallized limestone and marble with minor interbeds of andesitic volcanic rocks. The Omenica intrusive rocks consist of quartz diorite to quartz monzonite with minor feldspar porphyritic phases.

Skarns, consisting primarily of magnetite, chalcopyrite, diopside, epidote, grossular garnet, and minor wollastonite, are present at the limestone - intrusive contact.

MINERALIZATION AND ALTERATION

Three primary types of mineralization occur on the

property, as follows:

1. Magnetite, chalcopyrite, pyrite, bornite, malachite, minor galena and sphalerite with anomalous gold values is associated with the skarn zones.
2. Galena with minor sphalerite occurs in narrow veinlets within the limestone.
3. Chalcopyrite and molybdenite is associated with potassic alteration within the quartz monzonite phase of the intrusion.

Propylitic alteration, consisting of chlorite and epidote enveloping calcite fractures is developed in the volcanics adjacent to the intrusive as well as within the intrusive itself.

Potassic alteration occurs along abundant fractures within the quartz monzonite phase of the intrusive. Small amounts of chalcopyrite are common in the zones of more intense alteration.

PHYSICAL WORK

A total of 13.2 line kilometers were cut during a period of 10 days by Van Alphen Exploration Services of Smithers B.C. The line cutting was completed on a grid with the baseline and crosslines every 50 meters being cut.

This work was done in preparation for a magnetometer survey used to delineate the contact between the Omenica intrusions and the Asitka limestones. Which, in turn, was used as a basis for spotting the location of diamond drill holes.

DIAMOND DRILLING

During the period between August 9, 1987 and August 21, 1987 a total of 864.67 meters of BQ diamond drilling was conducted in a total of five holes (figure 3).

The purpose of drilling was to determine the nature of the contact between the Lower Jurassic Omenica intrusives and the Permian Asitka Group limestones. It was expected that the magnetite-chalcopyrite skarn, located by hand trenching in 1982, would extend along this contact zone at depth.

A magnetic field high located over the 1982 hand trench was used as a target for drilling. This drilling revealed the continuation of the magnetite skarn at depth. It occurs as a near vertical zone with intersections of up to 12 meters thick.

CONCLUSIONS AND RECOMMENDATIONS

The linecutting and subsequent magnetometer survey revealed the presence of a magnetic field high in the same location as a 1982 hand trench that revealed the presence of a magnetite-chalcopyrite skarn. This discovery area was used as the drill target.

The drill was located at 1373 S and 45E on the grid and two holes 87-A1 and 87-A2 intercepted magnetite skarn at a depth of 103 and 40 meters respectively, vertically below the location of the hand trench. The drill was then rotated 45° south and holes 87-A3 and 87-A4 were drilled. Hole 87-A3 intercepted two magnetite

skarn zones with intercepts up to 12 meters thick, and hole 87-A4 intercepted an epidote-magnetite skarn.

The drill was then moved and another magnetic anomaly was drilled. Hole 87-A5 intercepted a silicate skarn comprised of actinolite, diopside, and epidote with minor associated magnetite.

The magnetite skarn returned anomalous values of copper, gold, and silver. The values were up to 2.67% Cu, 0.053 oz/ton Au, and 2.73 oz/ton Ag for chalcopyrite rich skarn. Values up to 0.134 oz/ton Au and 0.57 oz/ton Ag with no copper assaying were also returned.

The silicate skarn in hole 87-A5 returned low gold and silver assays, however, one fire assay of 0.385 oz/ton Au and 7.09 oz/ton Ag was returned in a one meter section of the granodiorite containing chloritic shears and calcite fracture fillings.

In the future, we recommend the following:

- 1) Extension of the magnetometer survey over the north part of the grid area to further delineate the contact between the intrusives and the limestone. Systematic trenching and diamond drilling should be conducted if warranted.

- 2) Trenching along strike of the magnetite-chalcopyrite outcrop to further delineate the surface expression of the mineralized zone.

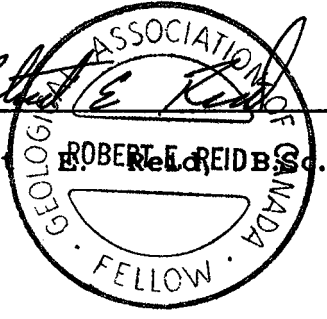
- 3) Further drilling of the magnetite-chalcopyrite skarn to further delineate reserves is warranted.

[Handwritten signature]

Kelly L. Illerbrun, B.A.Sc.

[Handwritten signature]

Robert E. Reid, B.Sc., F.G.A.C.



STATEMENT OF EXPENDITURES

HELICOPTER

Northern Mountain Helicopters

49.7 hours @ \$595.00/hr. \$ 29,571.00

FIXED WING

Central Mountain Air

Aug 3 \$ 1687.50

Aug 8 \$ 1800.00

Aug 10 \$ 925.00

Aug 10 \$ 1800.00

..... \$ 6,212.50

CAMP SUPPORT

71 Man-days @ \$30.00/man-day \$ 2,130.00

DRILLING

864.67 meters BQ core \$ 44,442.00

LINE CUTTING

10 days @ \$425.00/day \$ 4,250.00

LABOUR

7 days @ \$315/day

4 days @ \$230/day

2 days @ \$150/day

8 days @ \$100/day

3 days @ \$ 92/day

..... \$ 4,501.00

=====
TOTAL \$ 91,106.50

REFERENCES

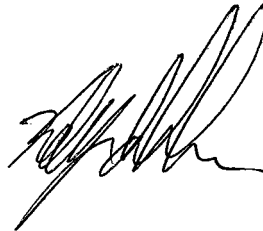
CRAWFORD, S.A. and VULIMIRI, M.R. (1981) Geochemical and Geological Report on the Acapulco, Aca, and Pul Claims, Omenica Mining Division.

VULIMIRI, M.R. and CROOKER, G.F. (1985) Geological and Geophysical Report on the Pul, Sun, and Star Claims (Acapulco Group), Omenica Mining Division.

CERTIFICATE OF QUALIFICATIONS

I, Kelly L. Illerbrun, certify that:

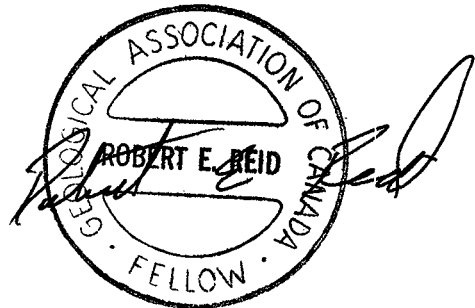
1. I am a geologist employed by Cheni Gold Mines Inc.
2. I have a Bachelor of Applied Science Degree in Geological Engineering from the University of British Columbia.
3. I personally examined the property with respect to the 1987 field program.
5. I have no financial interest, either direct or indirect, in the property.



CERTIFICATE OF QUALIFICATIONS

I, Robert E. Reid, certify that:

1. I am a geologist employed by Cheni Gold Mines Inc.
2. I have a Bachelor of Science Degree in Geology from the University of British Columbia.
3. I personally examined the property with respect to the 1987 field program.
4. I have worked in the industry from 1971 to present.
5. I have no financial interest, either direct or indirect, in the property.
6. I am a Fellow of the Geological Association of Canada and a member of the C.I.M.M.



CERTIFICATE OF QUALIFICATIONS

I, Peter F. Tegart, certify that:

1. I am a geologist employed by Cheni Gold Mines Inc.
2. I have a Bachelor of Science Degree in Geology from the University of British Columbia.
3. I have worked in mineral exploration or geological mapping since 1966 and have acted in responsible positions since 1971.
4. I personally examined the property with respect to the 1987 field program.
5. I have no financial interest, either direct or indirect, in the property.

CERTIFICATE OF QUALIFICATIONS

I, Donald C. Plecash, certify that:

1. I am a geologist employed by Cheni Gold Mines Inc.
2. I have attended Queens University from 1947 to 1950.
3. I personally examined the property with respect to the 1987 field program.
4. I have worked in the industry from 1950 to present with a hiatus between 1973 to 1980.
5. I have no financial interest, either direct or indirect, in the property.

CERTIFICATE OF QUALIFICATIONS

I, Mohan R. Vulimiri, certify that:

1. I am a geologist, employed by Cheni Gold Mines Inc.
2. I have a Bachelor of Science Honors Degree and a Master of Science Degree in Geology.
3. I have been practising my profession as an exploration geologist since graduation.
4. I personally examined the property with respect to the 1987 field program.

Smithers, British Columbia

Mohan R. Vulimiri

Mike Waskett-Myers. **MIN-EN Laboratories Ltd.**

Specialists in Mineral Environments

Corner 18th Street and Sewicks
705 WEST 18TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PROCEDURE FOR CHENI GOLD CAMP

- 1.) Weigh 5.0 gm sample into 250 ml beaker.
- 2.) Add 100 ml 1:1 aqua regia (Aqua regia should be made more than 2 hours earlier. See mixing procedure for aqua regia).
- 3.) Put the hot plate on VERY LOW heat and simmer samples for 30 minutes.
- 4.) Turn up hot plate to ALMOST BOILING for 30 minutes.
- 5.) Add D.I. water (up to roughly 175 ml mark), remove from hot plate, and let cool for approx. 10 minutes.
- 6.) Transfer into 250 ml volumetric flasks.
- 7.) Make up to volume and shake.
Allow to stand for 15 minutes (to allow settling of sediments to avoid plugging the A.A. capillary).
- 8.) Read silver.
- 9.) Take 75 ml aliquot into 125 ml separatory funnel. Add 2 mls concentrated HBr, THEN 10 ml M.I.B.K.
- 10.) Shake for 5 minutes on shaker table.
- 11.) Drain aqueous layer (bottom layer) into beakers and discard.
Wash M.I.B.K. layer with 15 ml Gold Wash twice.
- 12.) Wipe tops of separatory funnels with paper towel.
- 13.) Collect M.I.B.K. layer into vials.
- 14.) Read gold.

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 18th Street and Bewicke
708 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PROCEDURE FOR CHENI GOLD CAMP

1:1 Aqua Regia

A.) MIXING BOTTLE (plastic HCl bottle)

- i) measure (and mark) 1500 mls
- ii) measure (and mark) 500 mls
- iii) measure (and mark) 2000 mls

B. CHEMICALS

- i) pour in concentrated HCl to 1.5 litre mark
- ii) pour in concentrated HNO₃ to 0.5 litre mark
- iii) let stand at least 2 hours, without lid (much better if left overnight in fumehood).
- iv) (the next morning) add D.I. water to 4.0 litre mark.
- v) allow to stand for 15 minutes.
- vi) put on lid, invert bottle, upright bottle, cautiously release pressure build-up inside bottle (via removing lid) immediately. Continue this "shake and release" operation until the aqua regia is mixed.

It is alright to leave the lid off after this, BUT keep in fumehood.

N.B. Plan ahead so that you make up enough 1:1 aqua regia to get you through the following day. The 1:1 aqua regia is at its best when fresh so do NOT make up enough for a week to try and get ahead -- just plan for one day at a time.

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: TOODOGONE

HOLE NO. 87-A-1

ZONE: ACAPULCO

CORE SIZE: START B.9

LOCATION (N.T.S.) _____

CHANGE _____

CLAIM: STAR

DATE STARTED: AUG 9, 1987

MINING DIVISION: OMINECA

DATE COMPLETED: AUG. 12, 1987

LOGGED BY: D.C.P.

DATE: AUG 11 / 87

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) _____

TOTAL LENGTH 170.69

GRID ZONE CO-ORDINATES 1370 S 33 E

ELEVATION AT COLLAR 5200M

DIRECTION: DEPTH AZIMUTH INCLINATION

DEPTH	AZIMUTH	INCLINATION
COLLAR	<u>281°</u>	<u>-70°</u>

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		0 - 3.05 OVERBURDEN	1					
			2					
3.05		3.05 - 132.74 WHITE TO MEDIUM GREY	3					
85%		LIMESTONE WITH A MARBLE	4					
5.18		EFFECT. SMALL BANDS OF CHLORITIC	5					
		SHIST AND HEMATITE STAINING	6					
93%		THROUGHOUT.	7					
8.22			8					
			9					
98%		9.42 - 14.0 CHLORITIC SHIST BANDS	10					
10.67		RUNNING FROM 75° TO 90° FROM	11					
100%		CORE AXIS	12					
12.19			13					
100%			14					
4.33			15					
			16					
100%			17					
7.07			18					
			19					
100%			20					
20.12								

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
20.12			21				
1056			22				
23.32			23				
			24				
1006			25				
26.52			26				
			27				
1002			28				
29.26	29.0-29.2 BROKEN RUSTY LEDC	29.86 - 43.20 INCREASE IN HEMATITE STAINING.	29				
1006			30				
32.31			31				
856			32				
34.14			33				
			34				
906			35				
			36				
37.49	37.0-37.4 BROKEN RUST STAINED LEDC		37				
101			38				
38.71			39				
456			40				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
40.51			41					
1007			42					
43.59		43.20 - 54.35 LIMESTONE MORE HOMOGENEOUS.	43					
1002			44					
46.63			45					
1002			46					
49.38			47					
07			48					
52.12			49					
1006			50					
53.95			51					
1006			52					
7.05		54.35 - 66.70 LIGHT TO MEDIUM GREY LIMESTONE	53					
1006			54					
9.44			55					
			56					
			57					
			58					
			59					
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
62.48			61					
			62					
			63					
			64					
65.53			65					
			66					
67.66		66.50 - 82.30 BUILDUP OF HEAVY STAINING	67					
			68					
			69					
70.71			70					
			71					
			72					
73.76			73					
			74					
			75					
76.81			76					
			77					
			78					
			79					
79.86			80					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
100%			81					
87.30			82					
100%		82.30-98.50 MORE HOMOGENEOUS LIMESTONE WITH AN INCREASE OF CRYSTAL SIZE	83					
85.35			84					
100%			85					
83.39			86					
100%			87					
71.44			88					
100%			89					
74.49			90					
100%			91					
77.54			92					
100%			93					
			94					
			95					
			96					
			97					
			98					
		98.50 FRACTURE CONTACT AT 65° TO CORE AXIS WITH MUCH HEMATITE STAINING	99					
			100					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
100.59		TO 99.47 HEAVY METAL STAIN BURKUP	101					
102.72			102					
105.77		105.2 - 107.17 BANDS OF ALLOTIC SHEET RUNNING SPORADICALLY THROUGH THE CORE AT RANDOM. TO 10CM THICK	103					
108.81		105.77. CRYSTAL STRUCTURE SIZE IS INCREASING	104					
111.56		108.81 - 109.40 AS ABOVE	105					
114.45			106					
117.50			107					
			108					
			109					
			110					
			111					
			112					
			113					
			114					
			115					
			116					
			117					
			118					
			119					
			120					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
126.49			121					
100%			122					
128.45			123					
100%			124					
125.27		127.13-128.28 CHLORITIC SHAFT SPALLS RUNNING FROM 15° TO 35° TO CORE AXIS AND FROM 10CM TO 25CM THICK	125					
100%			126					
128.32			127					
100%			128					
131.37			129					
80%			130					
132.71-134.11 HAS 0.2M CORE LOSS	132.71-136.55	MAGNETITE CONTAINS @ 81° TO CORE AXIS. BLACK MAGNETITE WITH BLENDS AND STRINGS OF EPIDOTE AND HEMITITE. HEMITITE UP TO 2MM IN SIZE	131					
134.11	133.65-134.15 CRUSHED CORE		132					
71%	135.04-136.55 SOME BROKEN CORE WITH 0.78M CORE LOSS		133	25581	0.01	40.1		
136.55		132.91-133.01 MEDIUM GREY MARBLED LIMESTONE	134	25582	0.01	40.1		
85%		134.15-134.27 GREY LIMESTONE	135	25583	0.01	0.2		
139.30		134.91-135.04 GREY LIMESTONE 135.18-136.55 CHALCOPYRITE THROUGHOUT 136.55-136.99 GREEN SKARN WITH EPIDOTE & HEMITITE; CHALCOPYRITE IN BLENDS 136.99 RECEMENTED SKARN WITH A LARGE AMOUNT OF HEMITITE STAIN TO 137.19 (DIOPSIDIC SKARN)	136	25584	0.06	3.6		
			137	25585	40.01	0.3		
			138	25586	40.01	40.1		
			139	25587	40.01	40.1		
			140	25588	40.01	0.1		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
90.1		137.19-139.85 DIOPSIDIC SKARN WITH LITTLE CALCITIC 139.80-139.85 BLACK CHLORITIC ALTERATION	141				
142.34		139.80-145.50 <u>INJO SKARN</u> WITH EPIDOTE AND 2MM STRINGS OF CALCITE	142 143				
100.6		141.10-141.27 CRUSHED ZONE	144				
145.37		141.27 FAULT @ 45°E CORE AXIS WITH 10MM GOUGE.	145				
98.2		141.27-141.34 BLACK CHLORITIC ALTERATION	146 147				
47.52			148 149				
50.57		150.99-170.69 <u>GRANITE</u> INTRUSION - COMPLETE	150 151				
153.02		153.02 - 6cm CALCITE INTRUSION	152 153 154				
56.67		156.23 - BENDING ? 32° C.A.	155 156 157				
59.11			158 159 160				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			161					
62.15			162					
63.37		162.55 - 1 CM CALCITE VEIN	163					
			164					
			165					
66.42			166					
			167					
			168					
67.64			169					
		167.84 - 170.96 MORE ALTERED WITH REDDISH BROWN HUC	170					
		168.14 - 168.34 - 3 VEINLETS OF CALCITE MM IN SIZE TO 1 CM.	171					
70.69		170.69 - E.O.H.	172					
			173					
			174					
			175					
			176					
			177					
			178					
			179					
			180					

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: TOODOGONE

HOLE NO. 87-A-2

ZONE: ACAPULCO

CORE SIZE: START B. Q

LOCATION (N.T.S.) _____

CHANGE _____

CLAIM: STAR

DATE STARTED: AUGUST 12, 1987

MINING DIVISION: OMINECA

DATE COMPLETED: AUGUST 13, 1987

LOGGED BY: D.C.P.

DATE: AUG 16, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) _____

TOTAL LENGTH 144.78 m

GRID ZONE CO-ORDINATES 1370S 33E

ELEVATION AT COLLAR 5200

DIRECTION: DEPTH AZIMUTH INCLINATION

DEPTH	AZIMUTH	INCLINATION
COLLAR	<u>284°</u>	<u>-55°</u>

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		0 - 3.36 OVERTURDEN	1					
			2					
			3					
3.36		3.36 - 21.85 LIGHT TO MEDIUM GREY LIMESTONE.	4					
856		3.36 - 8.62 SMALL MM VEINLETS - HENITIC STAINED	5					
4.88		5.20 - 5.40 STAINED & BROKEN - FAULT	6					
1002			7					
6.40			8					
986			9					
7.92			10					
		8.62 - 9.28 - CLEARER LIMESTONE WITH 6 MM VEINLETS & COARSE CRYSTALS	11					
		9.28 - 15.82 DARKER LIMESTONE WITH INTENSLY NUMBERED VEINLETS	12					
			13					
		13.41 - 13.81 BLACK TO DARK GREEN EPIDOTE TO SERPENTINE BANDED 350 TO CORE AXIS WITH INTRUSIONS OF BANUSTO BLENDS OF CARBONATE-	14					
		13.81 - 21.85 CLEARER LIMESTONE	15					
			16					
			17					
		17.78 - 17.98 - BROKEN WITH OXID STAINING OR FRACTURE	18					
			19					
			20					

CASING

3.36
856
4.88
1002
6.40
986
7.92
986
10.97
806
3.41
1001
4.94
959
7.98
982

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
100%								
21.03		20.83 - 1cm ORIVE GOUGE	21					
476		21.85-27.00	22					
23.46		INDO SKARN WITH SOME PINKISH STAINING (RHEODIOCHALCITE?)	23					
616		21.85- 4cm MUD.	24					
26.21		21.85- 2cm DARK EPIDOTE 50°C.A.	25					
		23.66-28.81 LIMESTONE	26					
		21.85-27.00 SKARN BROKEN WITH MINER SECTIONS OF GRANODIORITE	27					
		27.00-28.81 - MEDIUM TO DARK GREY LIMESTONE	28					
		27.32-27.86 ZONES TO 2.5cm WIDE of FeS	29					
29.26		27.00-28.06 LIMESTONE DARK GREY	30					
		28.81-29.46- INDO SKARN	31					
		29.46-34.95- MEDIUM TO DARK GREY LIMESTONE	32					
31.39			33					
			34					
33.53			35					
			36					
35.53			37					
			38					
			39					
37.77			40					
		35.80-36.15 DARK MUSTARD COLOUR BAND OF EPIDOTE 25°C.C.A.						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton	Au	Ag
95		59.84-65.98 LIGHTER LIMESTONE WITH FINE EPIDOTE BANDING @ 80° C.A.	61					
62.35			62					
			63					
97			64					
65.68		64.04-65.12 FINE EPIDOTE BANDING	65					
		65.68-65.78 } 66.16-66.20 } DARK MOTTLED LIMESTONE 66.58-66.61 }	66					
95		65.58-66.64 ZONES OF PINKISH LIMESTONE 85° TO C.A.	67					
68.25			68					
68.88		66.53-74.95 DARKER GREY LIMESTONE WITH BUILDUP OF CHLORITE ALTERED TO BLACK COLOUR.	69					
107			70					
71.93			71					
95			72					
			73					
24.98		74.95-79.25 MAGNETITE WITH INTRUSIONS OF EPIDOTE AND SOME CHALCOPIRITE	74					
		74.95-74.98 MIXED MAGNETITE & LIMESTONE	75	27051	0.04	0.80	0.044	0.59
		74.98-75.11 LIMESTONE	76	27052	0.06	0.50	0.028	0.53
		75.11-75.21 MIXED MAGNETITE & LIMESTONE	77					
		75.21-75.91 DIOPHIC EPIDOTIZED SKARN						
		75.91-77.12 BLACK MAGNETITE WITH UP TO 10% CHALCOPIRITE	78	27053	0.03	0.50	0.036	0.60
		77.14-78.53 BLACK MAGNETITE WITH SMALL VEINLET CHALCOPIRITE						
		78.53-79.25 MIXED SKARN-EPIDOTE-MAGNETITE	79	27054	0.02	0.20	0.010	0.18
78.03		79.25-144.78 INDO SKARN.						
70.9	78.53-79.25 - 4cm CORE LOG							
9.25	79.25-80.57 - 10cm							

DEPTH
metres

GRAPHIC LOG

GEOLOGIC DESCRIPTION

DEPTH
Metres

SAMPLE
NUMBER

AU
Oz/ton

Ag
Oz/ton

ASSAYS

139.20 - 141.25
141.25 - 144.75
144.75 - 146.00
146.00 - 147.50
147.50 - 149.00
149.00 - 150.50
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144.75 - E.O.H.

141

142

143

144

145

146

S E R E M L T D .

D I A M O N D D R I L L L O G

PROJECT: TOODOGONE

HOLE NO. 87-A-3

ZONE: ACAPULCO

CORE SIZE: START B. Q

LOCATION (N.T.S.) _____

CHANGE _____

CLAIM: STAR

DATE STARTED: AUG 13, 1987

DATE COMPLETED: AUG 15, 1987

MINING DIVISION: OMINECA

LOGGED BY: D.C.P.

DATE: AUG 18/87

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) _____

TOTAL LENGTH 158.44

GRID ZONE CO-ORDINATES 1370S 33E

ELEVATION AT COLLAR 5200

DIRECTION: DEPTH AZIMUTH INCLINATION

DEPTH	AZIMUTH	INCLINATION
COLLAR	234°	-60°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
CASING 3.05 6.71 10.06 13.89 17.94 21.34		0 - 3.05 OVERBURDEN	1					
		3.05 - 93.36 LIGHT TO MEDIUM GREY LIMESTONE	2					
		3.05 - 13.66 LIGHT GRAY TO DARKER GREY LIMESTONE WITH ZONES OF DARK FRACTURE FILLED BY 45°E 53°N AND 56°E 26°S.	3					
		5.91 - 6.11 FRACTURE FILLED HEMATITE STAINING WITH QUARTZ	4					
			5					
			6					
			7					
			8					
			9					
			10.06 - 13.13 LIGHT RECRYSTALLIZED WITH LITTLE HEMATITE STAINING ON FRACTURE	10				
			11.29 REA. CHLORITE GOUGE 85° C.A.	11				
				12				
				13				
			13.19 - 17.27 DARK GREY FRACTURED EPHORITIC FOLDED LIMESTONE WITH FRACTURING ANYWHERE FROM 45° TO C.A. TO RUNNING ALONG AXIS.	14				
				15				
				16				
			16.97 - 17.27 INCREASE EPIDOTE DECIMINATION WITH CARNETIZED BUILDUP	17				
			17.00 - 1.5 CM CARBONATE VEBN 80° C.A.	18				
			17.27 - 24.79 RECRYSTALL MARBLE LOOKING LIMESTONIC.	19				
			18.07 - 20.86 MORE HEMATITE STAINING ON FRACTURES	20				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
20.42		20.36-25.73 LIGHTER GREY LIMESTONE WITH LESS FRACTURING	21					
22.25			22					
			23					
			24					
24.99			25					
		25.73-36.85 DARK GREY LIMESTONE WITH ZONES OF EPIDOTE SLIGHTLY GARNETIZED AT 29.58 TO 31.12	26					
			27					
28.04			28					
		29.14-29.28 WHITE CARBONATE WITH CHLORITE BINDINGS ON EACH SIDE	29					
			30					
30.78			31					
			32					
			33					
33.83			34					
			35					
			36					
36.85		36.85-41.89 LIGHT RECRYSTALLIZED LIMESTONE WITH SMALL VEINLETS APPROX IN SIZE RUNNING 40° CA.	37					
			38					
39.10			39					
			40					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
10.54			41				
12.06			42				
13.89		41.89- 42.76 BRECCIATED LIMESTONE IN A MAFIC OF DARK GREEN TO BLACK CHLORITE	43				
16.94		42.76- 71.73 MEDIUM GREY HARDLE LOOKING RECRYSTALLIZED LIMESTONE WITH CRYSTAL STRUCTURE BEING LARGER THAN NORMAL.	44				
			45				
			46				
			47				
			48				
			49				
20.29			50				
			51				
			52				
23.04			53				
			54				
25.02			55				
			56				
			57				
28.06			58				
			59				
			60				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
0.05								
3.09			61					
			62					
			63					
			64					
			65					
6.14		66.14-66.87 MEDIUM TO DARK GREENISH SAND EPIDOTE WITH SOME GARNETIZATION AND DARK GREEN TO BLACK ALTERED CALCITE	66					
			67					
			68					
9.19			69					
			70					
			71					
2.24		71.73-79.53 MEDIUM GREY LIMESTONE WITH NETWORK OF MM SIZE VESICLES OF CALCITE 78.88-79.18 BAND OF CHLORITE & EPIDOTE 60° C.A.	72					
			73					
			74					
5.29			75					
			76					
			77					
8.33			78					
			79					
9.40		79.53-93.36 MEDIUM TO LIGHT GREY MARBLE LOOKING LIMESTONE WITH	80					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS				
					Au Oz/ton	Ag Oz/ton	Au	Ag	
31.99			81						
			82						
33.82			83						
			84						
			85						
36.57			86						
			87						
			88						
39.91			89						
			90						
			91						
			92						
42.76			93						
	93.36 - 105.57 SAME GROUND CORE - 80% GLE REGOVCKY	93.36 - 105.57 MAGNETITE WITH LITTLE CHALCOPYRITE - EPIDOTE CARBONATE BLEBS & VEINLETS	93.36	27057	0.10	0.6	0.116	0.61	
			94	27058	0.06	0.4	0.067	0.36	
		94.70 - 98.4 - EPIDOTE & CHALCOPYRITE INTRUSIONS IN CORE IN LARGER AMOUNTS THAN BASIC CORE	95.36	27059	0.01	0.1	0.032	0.2A	
		101.08 - 101.14 AS ABOVE.	96.36	27060	0.01	0.2	0.034	0.29	
46.01			97	27061	0.28	0.6	0.13A	0.57	
			98	27062	0.19	0.5	0.099	0.58	
49.21			99	27063	0.10	0.7	0.093	0.71	
			100						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS				
					Au Oz/ton	Ag Oz/ton	Ar	Ag	
			100.36						
			101	27064	0.12	0.7	0.125	0.81	
			101.36						
102.71			102	27065	0.10	0.6	0.093	0.63	
			102.36						
			103	27066	0.07	0.4	0.063	0.47	
			103.36						
			104	27067	0.08	0.3	0.069	0.36	
			104.36						
105.46		105.57-119.80 LIGHT TO MEDIUM GREY LIME STONE	105	27068	0.06	0.4	0.046	0.36	
			105.57						
		105.57-113.54 RECRYSTALLIZED LIMESTONE WITH MINOR VEINLETS OF MM SIZE CHLORITIC FILLINGS	106						
			107						
108.51	108.53-116.0 RUST STAINING ON FRACTURE FACES	113.54-119.80 MEDIUM TO DARK GREY LIMESTONE WITH A NETWORK OF VEINLETS OF CHLORITE.	108						
			109						
109.95			110						
			111						
			112						
113.69			113						
			114						
115.92			115						
			116						
117.65			117						
			118						
118.87		119.80-132.69 MAGNETITE WITH CHALOPYRITE EPIDOTE-CARBONATE BLENDS & VEINLETS	119						
			119.80						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton	Au	Ag
	119.80-132.69 SOME GROUND CORE WITH 85% CORE RECOVERY.	119.80 - 120.50 HEAVY EPIDOTE WITH CHALCO- PYRITE AND BLENDS OF WHITE CARBON- ATE UP TO 7CM IN SIZE	119.80 120.50	27069	0.12	0.3	0.099	0.29
21.92			121 121.5	27070	0.06	0.1	0.037	0.19
			122 122.5	27071	0.03	0.1	0.007	0.12
23.75			123 123.5	27072	0.02	<0.1	0.011	0.14
			124 124.5	27073	0.06	0.3	0.041	0.37
			125 125.5	27074	0.09	0.4	0.065	0.36
26.80			126 126.5	27075	0.10	0.5	0.168	0.54
			127 127.5	27076	0.09	0.3	0.071	0.36
			128 128.5	27077	0.04	0.2	0.018	0.19
29.84		128.59 - 132.69. HEAVY EPIDOTE WITH CHALCO- -PYRITE	128.6 129.6	27078	0.07	0.2	0.052	0.27
			130 130.6	27079	0.06	0.2	0.031	0.21
			131 131.6	27080	0.03	<0.1	0.020	0.12
32.89		132.69 - 152.24 EPIDOTIC SKARN WITH TRACES OF CHALCOPYRITIC. HEMATITE STAINING SMALL CARBONATE VEHLGTS	132 132.69	27081	0.04	0.3	0.036	0.31
			133 134	27082	0.08	0.7	0.047	0.66
			135	27083	0.06	0.5	0.031	0.48
35.97		136.50 - 136.60 FAULT ZONE (Ae 80°)	136	27084	0.02	0.5	0.032	0.46
			137	27085	<0.01	<0.1	0.006	0.11
			138	27086	0.01	<0.1		
			139	27087	<0.01	<0.1		
39.01			140	27088	<0.01	<0.1		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS				
					Au Oz/ton	Ag Oz/ton			
				141	27089	<0.01	<0.1		
41.77				142	27090	<0.01	<0.1		
				143	27091	<0.01	<0.1		
43.90				144	27092	0.01	0.1		
				145	27093	<0.01	<0.1		
				146	27094	<0.01	<0.1		
46.95				147	27095	<0.01	<0.1		
		147.10-147.64		148	27096	<0.01	<0.1		
		MAFIC DARK GREEN CHLORITE WITH SOME FINE MM VEINETS CARBONATE		149	27097	<0.01	<0.1		
49.89				150	27098	<0.01	<0.1		
				151	27099	<0.01	<0.1		
		152.24-158.54		152	27100	<0.01	0.1		
52.47				153	27101	<0.01	<0.1		
53.20		152.44		154	27102	<0.01	0.4		
		FIRST GRANODIORITE APPEARING THEN SCATTERED THROUGHOUT CORE. SMALL STOCKWORK OF CARBONATE VEINING FROM MM TO 1CM IN SIZE		155					
				156					
56.10		157.20-1CM		157					
		CARBONATE VEIN 70°C/A.		158					
58.54		158.54 - E.O.H.		159					
				160					

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: TOODOGONE

HOLE NO. 87-A-4

ZONE: ACAPULCO

CORE SIZE: START B. Q

LOCATION (N.T.S.) _____

CHANGE _____

CLAIM: STAR

DATE STARTED: AUGUST 15, 1987

DATE COMPLETED: AUGUST 18, 1987

MINING DIVISION: OMINECA

LOGGED BY: Robert L. Lill

DATE: AUG 19 & 20 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) _____

TOTAL LENGTH 229.52 m.

GRID ZONE CO-ORDINATES 1370S 33E

ELEVATION AT COLLAR 5200

DIRECTION: DEPTH AZIMUTH INCLINATION

DEPTH	AZIMUTH	INCLINATION
COLLAR	<u>234°</u>	<u>-76°-55'</u>

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
0-3.09	CASING AND OVERBURDEN NO CORE RECOVERED		1					
			2					
			3					
		3.09-46.05 <u>LIMESTONE:</u> WHITE, MASSIVE. LOCAL MINOR RECRYSTALLIZATION AROUND LATER CARBONATE STRINGERS. OHNEZOUS HEMATITE PERVIOUS IN FRACTURES TO 27	4					
			5					
			6					
		7.63-7.74 MEDIUM GRADE: GARNET-EPIDOTE DISSEMINATION AROUND 7MM REDDISH K-FELDSPAR STRINGER. 7.72 2 CM LATE STAGE CARBONATE STRINGER. 90° TO RHS.	7					
			8					
			9					
			10					
			11					
			12					
			13					
		18.85 2CM EPIDOTE BAND 90°	14					
		14.22-14.32 SWIRKENSIDED ENHORITIC FRACTURE WITH CARBONATE STRINGER.	15					
			16					
			17					
			18					
		16.57-18.76 SLUMP BRECCIA - PALE TAN OXIDATION TO MATRIX. CONTACTS AT 30°	19					
			20					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
		20.9-20.97 MINOR GARNET - EPIDOTE DEVELOPMENT ALONG BEDDING ? OR FRACTURING AT 35°	21				
		22.12-22.95 WEAK GARNET DEVELOPMENT AROUND SEVERAL CARBONATE STRINGERS	22				
		22.99-23.5 CHLORITIC HAEMATITIC FRACTURE FILLINGS IN SLUMP AT LOW ANGLE TO AXIS.	23				
		23.9-24.07 WEAKLY OXIDIZED CARBONATE STRINGER ZONE.	24				
		WEAK GARNETIFEROUS DEVELOPMENT ASSOCIATED WITH CARBONATE STRINGERS AT 28.95, 29.83, 31.1	25				
			26				
			27				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
			35				
			36				
			37				
			38				
			39				
			40				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			41					
			42					
			43					
			44					
		44.3 - CHLORITE - MINOR HEMATITE FILLING FRACTURES.						
		44.87 - GOBBY CLORITIC FRACTURE AT 30°	45					
		45.9 - 46 MEDIUM GRADE EPIDOTE SKARN WITH OBEROUS HEMATITE BLEBS ALONG EDGE OF CORE.	46					
46.05 - 46.9 BROKEN WITH GLACIERSIDED FRACTURE		46.05 - 46.92. <u>GARNET EPIDOTE DIOPSIDE SKARN</u> MAINLY BROWN GARNETS WITH 3% POORLY DEVELOPED DIOPSIDE? OR POSSIBLY FELDSPARS WITH MINOR EPIDOTE CHLORITIC FRACTURES WITH OBEROUS HEMATITE; AND CARBONATE FRACTURE FILLINGS. TRACES PYRITE - NO MAGNETITE OR CHALCOPYRITE.	47					
			48					
			49					
		46.92 - 51.43 <u>GRANODIORITE</u> - FINE GRAINED SUBHEDRAL GRANULAR; 30% MAFICS; 25% QUARTZ. HIGHLY FRACTURED WITH; PINK AND WHITE CARBONATES, EPIDOTE AND CHLORITE FRACTURE FILLINGS. VALVE FOLIATION AND PROMINENT FRACTURE DIRECTION INCLUDING CONTACTS AT 30°	50					
		BOTTOM CONTACT 0.15M EPIDOTIZED INTRUSIVE BEFORE SHARP FRACTURE CONTACT WITH LIMESTONE.	51					
		FIND PINKISH BLEACHED HALO'S AROUND MORE INTENSELY EPIDOTIZED FRACTURES.	52					
			53					
		51.43 - <u>LIMESTONE</u>	54					
		MASSIVE WHITE TO LIGHT GREY	55					
			56					
			57					
			58					
			59					
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			61					
			62					
	61.73 - 62.4 Broken	61.73 - 62.4 RECRYSTALLIZED	63					
			64					
		64.33 - 70.1 RECRYSTALLIZED	65					
			66					
			67					
			68					
			69					
		70.1 - 70.16 MASSIVE MAGNETITE CONTACTS AT 70°	70					
			71					
		70.16 - 74.35 - MODERATE DENSITY CHLORITE - OCHEROUS HEMATITE FRICTION FILLINGS	72					
			73					
			74					
			75					
		75.36 - 75.5 WEAK GARNET - EPIDOTE DEVELOPMENT ASSOCIATED WITH CARBONATE STRINGERS AT LOW ANGLE TO AXIS.	76					
			77					
		77.99 - 77.88 LOW - MEDIUM GRADE GARNET - EPIDOTE SLARN DEVELOPMENT AROUND GREENISH ITHAMITE CARBONATE AROUND BROKEN WEAKLY SILICIOUS VEINLET? AT 20° TO AXIS. CONTAINS L 1% PYRITE WITHIN DARK GREEN CHLORITE.	78					
			79					
			80					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
		77.89-84 Low to MEDIUM GRADE GARNET-EPIDOTE DEVELOPMENT ASSOCIATED WITH CARBONATE STRINGERS AND AS FRACTURE FILLINGS GARNET-EPIDOTE 1/2 OF SECTION.	81				
			82				
			83				
			84				
			85				
			86				
		87.2-88.1 Low-MEDIUM DENSITY CHLORITE-OSHEROUS HEMITITE FRACTURE FILLINGS.	87				
		88.1 5 mm CHLORITIC BRECCIA	88				
			89				
			90				
			91				
			92				
			93				
			94				
		94.65-101.45 RECRYSTALLIZED.	95				
			96				
			97				
			98				
			99				
			100				
97.7-98.5 BROKEN							

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSA.			
					Au Oz/ton	Ag Oz/ton		
			101					
			102					
		103.2 3 CM GARNET-DIOPSIDE-EPIDOTE SKARN BAND.	103					
		103.2-104.14 GARNET-EPIDOTE DEVELOPED IN HAIRLINE FRACTURES.	104					
		104.3-105.99 RECRYSTALLIZED	105					
		105.99-106.16 GARNETIFEROUS - GARNET UP TO 1 CM.	106					
105.99-106.14 BROKEN		105.99-106.14 RECRYSTALLIZED	106					
			107					
		108.18-108.45 LOW GRADE GARNET, DIOPSIDE EPIDOTE DEVELOPMENT.	108					
		108.45-109.95 RECRYSTALLIZED	109					
		109.95-123.95 MODERATE TO HIGH DENSITY CHAROTIC FRACTURE FILLINGS. IN RECRYSTALLIZED LIMESTONE. TRACES EPIDOTE AND GARNET.	110					
		110.9 TRACES CHALCOPYRITE AND CHALCOITE? AFTER 1187 MAJORITY OF MATERIAL APPEARS TO BE A SLUMP BRECCIA AT LOW ANGLE TO AXIS. CONTAINS SEVERAL FRAGMENTS OF FOLIA MARBLE SILICIOUS OR MARBLED MATERIAL.	111					
			112					
			113					
			114					
			115					
			116					
			117					
			118					
			119					
			120					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			121					
			122					
			123					
		123.95-138.15 RECRYSTALLIZED	124					
		123.67 2mm MAUVE STRINGER AT 50°	125					
		124.0-125 2-3 cm MAUVE MARBLE	126					
		FRAGMENT SKIMP? BRECCIA RUNNING	127					
		ALONG F.F.15.	128					
			129					
			130					
			131					
			132					
			133					
			134					
			135					
			136					
		136.09 4 cm CHLORITIC BAND AT 50°	137					
			138					
		138.15-151.76 SKARN ZONE.	138.1	27183	20.01	0.2	0.013	0.27
		128.15-139.08 EPIDOTIC - MAGNETITE	139					
		QUARTZ ZONE. 70% EPIDOTE - 25% QUARTZ		27184	0.01	0.3	0.006	0.36
		MAGNETITE BANDS AND BLAGS - 5% QUARTZ	140					
138.07								
86%								
40.51								

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton	Au	Ag
140.51		195 IRREGULAR VEINLETS AND OPEN SPACES FILLINGS. 21% CHALCOPYRITE		27185	0.01	0.3	0.035	0.35
95%		139.08-139.97. 90% MAGNETITE WITH 7% EPIDOTE BLEBS AND BANDS AND 3% QUARTZ AS IRREGULAR STRINGER NEAR START OF SECTION	141	27186	0.02	0.1	0.018	0.25
143.56		139.97-140.44. HEAVILY BROKEN CORE FRAGMENTS OF MASSIVE PYRITE - CHALCOPYRITE WITH MINOR MAGNETITE IN MEDIUM GRADE EPIDOTE SKARN CUT BY SEVERAL CARBONATE STRINGERS	142	27187	0.03	0.2	0.059	0.30
78%		140.44-142.15 NEAR SOLID MAGNETITE WITH EPIDOTE & MINOR QUARTZ. TRACE CHALCOPYRITE NEAR BOTTOM CONTACT.	143	27188	0.02	0.3	0.003	0.24
145.69		142.15-149.9. FINE GRAINED - MASSIVE EPIDOTE SKARN. 3% MAGNETITE AS BLEBS AND BANDS TO 149.5 1% AS BARS TO 149.5 AND 1% TO RARE FROM 149.5 ON. MODERATE TO HEAVY FRACTURED WITH OBLIQUE HEMATITE FACES.	144	27189	0.01	<0.1	0.002	0.15
95%		149.9-150.21 LIMESTONE - MAUVE MARBLE WITH CHLORITIC BAND SEPARATING - 30° TO AXIS	145	27190	<0.01	0.1		
148.49		150.21-150.27 GARNET-EPIDOTE BAND AT 20°	146	27191	0.01	0.1		
83%		150.27-151.03 SOFT BROKEN APHANITIC EPIDOTE CONTAINING FRAGMENTS OF GARNETIFEROUS MATERIAL	147	27192	0.01	<0.1		
150.88		151.03-151.28 MASSIVE GARNETIFEROUS MATERIAL FOR 3/4 CORE WITH 1/4 BEING MAUVE SILICIOUS MATERIAL RUNNING ALONG AXIS.	148	27193	<0.01	<0.1		
92%		151.23-151.76 CHLORITIC SOFT APHANITIC EPIDOTE SIMILAR TO 150.27-151.03.	149	27194	0.01	<0.1		
153.92		151.76-152.41 GRANODIORITE	150	27195	0.01	0.1		
96%		152.41-152.89 FINISH MARBLED ENDOSKARN.	151	27196	<0.01	0.1		
156.97		152.89-155.06. BIOTITE ? PORPHYRY ANDESITE DYKE 3-5% COARSE SUBHEDRAL DARK SPOTS IN A FINE GRAINED DARK GREEN CHLORITIC GROUNDMASS	152	27197	<0.01	<0.1		
73%		155.06-155.16 ENDOSKARN - GRANODIORITE	153					
58.8	159.0-159.2 FAULT	155.16-162.85 LOW-MEDIUM GRADE GARNET-EPIDOTE	154	27198	<0.01	<0.1		
93%			155	27199	<0.01	<0.1		
160.63			156	27200	<0.01	<0.1		
			157	27201	<0.01	<0.1		
			158					
			159					
			160					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
160.63		<u>SKARN:</u>				
161.15-161.3	HIGHLY BROKEN.	156.97-157.2 GRANODIORITE ASSIMILATION.	161	27202	20.01	20.1
99%		157.34 OPEN VUGGY CALCITE VEIN		27203	20.01	20.1
163.37		159.0-159.2 CARBONACEOUS GOUGE.	162	27204	20.01	20.1
85%		162.45-163.7 <u>ENDOSKARN:</u> AMORPHOUS MIXTURE	163	27205	20.01	20.1
165.2		OF APHANITIC EPIDOTE-CARNET AND	164	27206	20.01	20.1
103%		SKELER WITH LOCAL AREAS OF GRANITIC	165			
166.22		TEXTURE. NUMEROUS LATE STAGE	166			
		CARBONATE FRACTURE FILLINGS.	167			
		163.7-229.51 <u>GRANODIORITE</u>	168			
		FINE GRAINED; 30-55% MAFICS	169			
		5% QUARTZ. MEDIUM DENSITY	170			
		FRACTURING WITH WHITE & REDDISH	171			
		CARBONATE FILLINGS. AVERAGE 5-10/	172			
		METER.	173			
		163.7-170.64. HIGHLY BLEACHED	174			
		WITH PARTIAL DESTRUCTION OF MAFICS	175			
		GIVING VAGUE CHAOTIC REMNANTS	176			
		WITHIN A GRAY FELSIC GROUNDMASS.	177			
		177.4-177.72 SERPENTINE-CARBONATE	178			
		ZONE.	179			
			180			

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		180.3 - 184.37 SERPENTINE CARBONATE ZONE MAINLY FINE GRAINED WHITE CARBONATE GRAINS (90%) WITH A DARK GREEN SERPENTINITIC BOUNDARIES.	181					
			182					
		182.7 - 183.6 CHLORITIC CARBONACEOUS SERPENTINE SHEAR AT 300 CM CARBONATE ALONG UPPER CONTACT	183					
			184					
		184.57 - 186.43 INTERMIXED GRANO-DIORITE AND SERPENTINITIC SECTIONS.	185					
			186					
			187					
			188					
			189					
	190.07 - 190.55 BROKEN.		190					
			191					
			192					
			193					
			194					
			195					
			196					
			197					
			198					
			199					
			200					
	195.B - 197.7 HIGHLY BROKEN & FRAGMENTED. REMANENTS PINK CARBONATE STRINGER ALONG AXIS.							

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
		199.2 - 201.19. PINK CARBONATE AND CHLORITE SHEAR BRECCIA ALONG CORE AXIS. SERPENTINIZED AT CONTACTS.	201				
			202				
			203				
			204				
			205				
			206				
		AFTER 207.8 GROUNDMASS WHITE TO PALE GREEN.	207				
			208				
			209				
			210				
			211				
	211.9 - 212.6 BROKEN.		212				
			213				
	214.08 - 216.38 MODERATE - HIGH BROKE.		214				
			215				
			216				
			217				
			218				
			219				
			220				

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: TOODOSGONE

HOLE NO. 87-A-5

ZONE: ACAPULCO

CORE SIZE: START B.Q.

LOCATION (N.T.S.) _____

CHANGE _____

CLAIM: STAR

DATE STARTED: August 18, 1987

DATE COMPLETED: August 21, 1987

MINING DIVISION: OMINECA

LOGGED BY: M.V.

DATE: Aug 22, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) _____

TOTAL LENGTH 161.24

GRID ZONE CO-ORDINATES 14395 5W

ELEVATION AT COLLAR 5178.0M

DIRECTION: DEPTH AZIMUTH INCLINATION

DEPTH	AZIMUTH	INCLINATION
COLLAR	281°	-55°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
		0-5.3 <u>CASING</u> No core.	1					
			2					
			3					
			4					
			5					
		5.3 - 93.40 <u>Recrystallized Limestone</u> white to light grey limestone cross-cut by dark grey fractures. Coarse grained calcite in places. Patchy low grade garnetiferous (?) skarns towards lower contact. Limonitic fractures in places.	6					
			7					
			8					
		9.10 - 10.27 Well recrystallized with graphitic fracture fillings.	9					
			10					
		10.97 - 14.02 Intense recrystallization.	11					
			12					
			13					
			14					
		14.02 - 14.30 Broken core.	15					
			16					
		16.76 - 17.50 Breccia with chlorite + diopside in matrix.	17					
			18					
			19					
			20					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		22.30 - 26.00 Brecciated in places with chloritic (?) + graphitic shears pyrite in matrix.	21					
			22					
			23					
			24					
			25					
			26					
			27					
			28					
			29					
			30					
			31					
		32.5 - 32.8 Cross-cut by limonite fracture filling 0°-5° to core axis.	32					
			33					
			34					
		35.36 - 36.36 Same as 22.30 - 26.00	35					
			36					
			37					
			38					
			39					
			40					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		40.55, 42.30 Cross-cut by graphitic shears or fracture fillings at 45° to core axis.	41					
			42					
			43					
			44					
			45					
			46					
			47					
		48.60, 51.60 Same as 40.55, 42.30	48					
			49					
			50					
			51					
			52					
			53					
			54					
			55					
			56					
			57					
		58.0 - 58.10 Patches of low-grade chlorite + actinolite - minor pyrite skarn (upto 2% pyrite).	58					
			59					
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
			61					
			62					
		63.30 - 65.84 Same as 40.55, 42.30 with limonite fractures at 63.40, 64.90 and 65.74.	63					
			64					
			65					
			66					
			67					
			68					
			69					
		71.93 - 72.0 Patches of 2mm to 5mm diopside - minor garnet skarn along fractures. minor garnet dispersed in wallrock.	70					
			71					
			72					
			73					
		74.40 - 74.45 Grossular garnet in breccia matrix.	74					
			75					
			76					
		77.61 - 81.08 Chlorite + actinolite + diopside (?) + minor pyrite in matrix.	77					
			78					
			79					
			80					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		81.08 - 82.20 limonitic fractures.	81					
			82					
			83					
			84					
		84.50 - 86.26 Same as 77.61 - 81.08	85					
			86					
		87.40 - 87.65 Patches of diopside-grossular- minor epidote + minor pyrite skarn	87					
			88	27394	<0.01	0.1		
			89	27395	<0.01	0.1		
		89.35 - 90.70 Cross-cut in places by graphitic and limonitic shears.	90	27396	<0.01	0.1		
			91	27397	<0.01	0.1		
			92	27398	<0.01	0.1		
		93.40 - 99.50 <u>Skarn Zone</u>	93	27399	<0.01	0.1		
		93.40 - 93.55 Actinolite - diopside - pyrite Skarn both fracture and bedding controlled. Cross-cut by hematitic fractures. upto 40% actinolite, 2% pyrite.	94	27400	<0.01	0.1		
			95	27401	<0.01	0.1		
		93.55 - 94.40 : same as above but more limestone and lesser skarn mineralogy.	96	27402	<0.01	0.1		
			97	27403	<0.01	0.1	0.004	0.07
		94.40 - 95.60. Same as above but with more pyrite (eg. 95.50).	98	27404	0.01	0.2	0.023	0.22
		95.60 - 97.0 Silicious epidote - minor actinobite minor pyrite skarn cross-cut by calcite stringers and hematitic fracture fillings.	99	27405	0.05	0.4	0.070	0.53
		99.50 - 99.70 minor shears limonite fracture.	100	27406	<0.01	0.1	0.006	0.10

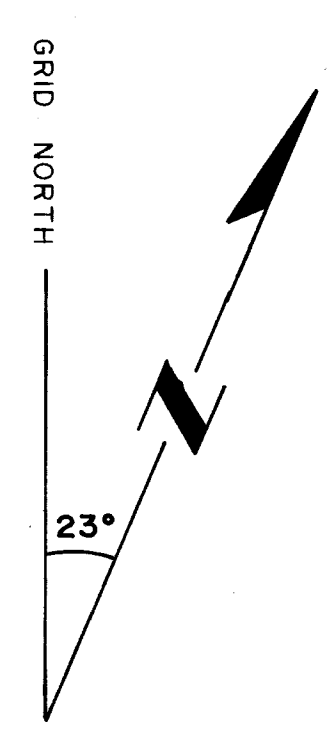
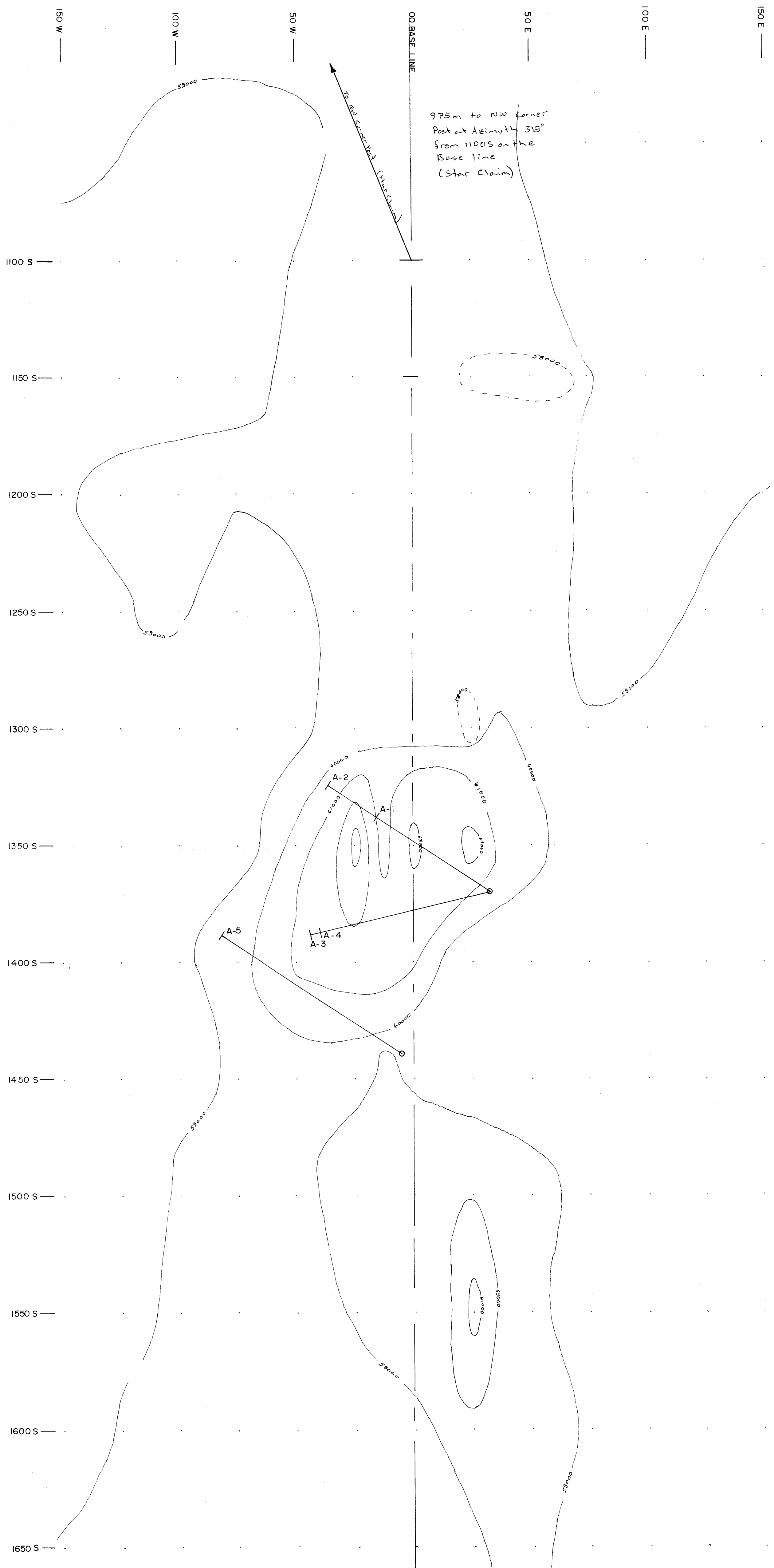
DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
		97.20- 97.60 <u>Banded epidote - diopside magnetite skarn</u> with magnetite at lower end. cross-cut by calcite stringers. Some pyrite. upto 5% magnetite.	101	27407	<0.01	0.1		
			102	27408	<0.01	0.1		
		97.60 - 97.75 Same as 93.40 - 93.55.	103	27409	<0.01	0.1		
		97.75 - 98.10 <u>Diopside - epidote - minor magnetite - minor pyrite skarn</u> patches of calcite and cross-cut by calcite fracture fillings. contact 60° to CA.	103.5	27410	<0.01	0.1		
			104	27411	<0.01	0.1		
			105	27412	<0.01	0.1		
		98.10 - 98.40 <u>Magnetite - Calcite - rich portion.</u> upto 60% magnetite. cross-cutting calcite stringers. Disseminated Chalcopyrite upto 2%. minor pyrite.	106	27413	<0.01	0.1		
			107	27414	<0.01	0.1		
			107.3	27415	<0.01	0.1		
		98.40 - 98.60 <u>Diopside - epidote - minor calcite skarn.</u> cross-cutting calcite stringers.	108	27416	<0.01	0.1		
108.50 - 108.60	Broken Core.		109	27417	<0.01	0.1		
		98.60 - 99.30 Same as 98.10 - 98.40 lesser magnetite. cross-cut by calcite stringers.	110	27418	<0.01	0.1		
		99.50 Limonite fracture filling.	111	27419	<0.01	0.1		
		99.50 - 118.14 <u>Recrystallized Limestone</u> with patches of diopside - minor garnet skarn and low grade chlorite - rich zones and fractured throughout. Siliceous portions in places.	112	27420	<0.01	0.1		
			113	27421	<0.01	0.1		
			114	27422	<0.01	0.1		
		103.3 - 103.45 chlorite - magnetite - calcite skarn with 2% magnetite. (Wollastonite?)	114	27423	<0.01	0.2		
		106.37 - 106.50 chlorite - minor epidote (Wollastonite?) skarn cross-cut by hematitic ffs.	115	27424	<0.01	0.2		
		106.58 - 107.16 epidote - diopside - minor garnet skarn. Contact 60° to CA. minor banding parallel to bedding?	116	27425	<0.01	0.3		
117.20 - 117.25	Hematitic fractures parallel to core axis	107.6 - 107.8 chlorite fracture fillings and minor patches of garnet. (grossular). minor pyrite	117	27426	<0.01	0.2		
		112.2 .5cm wide calcite breccia cross-cutting at 60° to CA.	118	27427	<0.01	0.2		
119.70 - 119.74	slit-sided shears.	114.45 - 114.6 pyrite + pyrrhotite fracture fillings at 30° to CA. (3mm wide).	119	27428	<0.01	0.2		
			120					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton	Au	Ag
		116.4 - 116.60 Siliceous diopside - minor epidote - minor garnet skarn. upto 15% pyrite	120	27429	0.01	0.2		
			121	27430	0.01	0.2		
	122.30 - 1cm wide shear with gouge	116.95 - 117.25 Breccia with limestone fragments and hematite matrix, cross-cut by hematitic fractures parallel to core axis	122	27431	0.01	0.1		
		117.87 - 117.90 Breccia with limestone fragments in skarned matrix. 80° to core axis.	123	27432	0.01	0.1		
	124.20 - 124.25 Broken core with chloritic gouge	118.14 - 118.5 Banded Magnetite - Hematite - pyrite - Chlorite? Skarn. Banding 60° to core axis, upto 10% magnetite, 5% pyrite, and 5% hematite.	124	27433	0.01	0.1		
	124.90 - 124.95 Broken core with gouge		125	27434	0.01	0.1		
	126.30 - 126.34 chloritic - hematitic shears.	118.5 - 120.09 Banded Hematite - Epidote - minor chlorite - minor pyrite - Siliceous Skarn. upto 60% hematite patches of calcite and cross-cut by calcite fracture fillings. Brecciated in places with hematitic matrix.	126	27435	0.01	0.1		
	127.30 - 127.40 Broken core with chloritic gouge		127	27436	0.01	0.1		
	128.85 - 129.10 Broken core with clay fractures	120.09 - 125.9 Epidote - minor hematite Skarn. Cross-cut by hematitic fracture fillings and minor calcite veinlets.	128	27437	0.01	0.1		
	132.0 - 132.50 Highly broken core with limonite chlorite & clay fractures parallel to core axis.	124.20 - 124.25 Chloritic gouge.	129	27438	0.01	0.1		
	132.81 - 135 Clay fractures + calcite fractures 1-2cm apart.	124.80 - 124.96 Chloritic & clayey gouge.	130	27439	0.01	0.8	0.002	0.66
		125.90 - 125.95 Diopside-rich portion cross-cut by calcite and quartz veinlets at 70° to core axis.	131	27440	0.01	0.8	0.001	0.52
		125.95 - 128.80 Siliceous Epidote - minor chlorite Skarn cross-cut by calcite fracture fillings and hematitic fractures.	132	27441	0.02	0.4	0.385	7.09
		127.21 - 127.91 Siliceous brecciated chlorite - epidote skarn. cross-cut by minor calcite fractures. minor pyrite.	133	27442	0.01	0.1	0.001	0.6A
		128.80 - 129.79 Chlorite - epidote Endoskarn. Relict intrusive texture. cross-cut by dark green chlorite fractures. quartz-rich and coarser-grained portions. minor calcite veinlets.	134	27443	0.01	0.1		
			135	27444	0.01	0.1		
			136	27445	0.01	0.1		
			137	27446	0.01	0.1		
			138	27447	0.01	0.1		
			139	27448	0.01	0.1		
			140	27448	0.01	0.1		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		132.10 - 132.50 Broken Core: Chloritic shears. minor calcite fractures.	141	27449	<0.01	<0.1		
		129.79 - 161.24 <u>Granodiorite</u> Medium grained intrusive texture with upto 50% mafic minerals cross-cut by calcite and rhodochrosite (?) fracture fillings every 1 to 2 cm. Hematite - magnetite fractures with bleached wall- rock envelopes. Pyrite in matrix.	142	27450	<0.01	<0.1		
			143					
			144					
			145					
		129.79 - 140.20 Bleached intrusion with complete destruction of mafics to sericite ± clay. Cross-cut by clay fractures	146					
			147					
		141.8 Magnetite + hematite + calcite + quartz veinlet 0.4 cm wide 25° to CA.	148					
		146.2 minor shear zone.	149					
		147.1 0.5 cm wide quartz veinlet cutting across calcite + rhodochrosite veinlet.	150					
			151					
			152					
			153					
			154					
			155					
			156					
			157					
			158					
			159					
		161.24 End of Hole.	160					

44.7
3 cm wide
fault.

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,463

CHENI GOLD MINES INC.			
TOODOGGONE PROJECT ACAPULCO GROUP			
D. D. H. LOCATION PLAN AND PORTION OF MAGNETOMETER SURVEY			
EXECUTED: CHENI	DATE: 1987	SCALE: 1/1000	
DATA: P.T., D.P., M.V., K.L.R.R.	1987	0 20 40 60m	
INTERPRETED: R.R.	1987	N.T.S.	REPORT No.
DRAFTED: R.R.	1987	94E/2	MAP No. 3
REVISIONS:			