

LOG NO: 0323	RD. 1	LOG NO: 1123	RD.
ACTION: Date received report back from amendments.		ACTION:	
FILE NO: 87-780-16470		FILE NO: 87-780 16470	

DIAMOND DRILLING REPORT

ON THE

WRICH 1, 2, AND 3 CLAIMS

TOODOGGONE RIVER AREA

OMENICA MINING DIVISION, B. C.

94E 2

(57°08' N. Lat., 126°45' W. Long.)

8/88

FOR

CHENI GOLD MINES INC.

STE. 2101 - 1055 WEST GEORGIA STREET

VANCOUVER, B. C.

(OWNER AND OPERATOR)

BY

PETER F. TEGART, B. Sc.,

DONALD C. PLECASH,

ROBERT E. REID, B. Sc., F. G. A. C.,

AND

KELLY L. ILLERBRUN, B. A. Sc.

OCTOBER, 1987

FILMED

GEOLOGICAL BRANCH ASSESSMENT REPORT

16,470

TABLE OF CONTENTS

	Page
<u>INTRODUCTION</u> . . . . .	1
<u>General</u> . . . . .	1
<u>Location and Access</u> . . . . .	1
<u>Physiography</u> . . . . .	1
<u>Property and Claim Status</u> . . . . .	4
<u>Property History</u> . . . . .	4
<u>GEOLOGY</u> . . . . .	5
<u>MINERALIZATION AND ALTERATION</u> . . . . .	6
<u>DIAMOND DRILLING PROGRAM</u> . . . . .	6
<u>CONCLUSIONS AND RECOMMENDATIONS</u> . . . . .	7
<u>STATEMENT OF EXPENDITURES</u> . . . . .	9
<u>REFERENCES</u> . . . . .	10
<u>STATEMENTS OF QUALIFICATIONS</u> . . . . .	11

LIST OF ILLUSTRATIONS

		Page
Location Plan	figure 1	2
Claim Plan	figure 2	3
Drill Hole Location Plan	figure 3	attached

## INTRODUCTION

### General

Diamond drilling was carried out on the property by D. J. Drilling Ltd. for Cheni Gold Mines under the supervision of company geologists. The Program was conducted between July 20, 1987 to August 8, 1987.

Logging of the diamond drill core was by Peter Tegart, Donald Plecash, Robert Reid, and Kelly Illerbrun, geologists employed by Cheni Gold Mines.

### Location and Access

The Wrich claim group is located between 57<sup>00</sup>7' and 57<sup>00</sup>9' N. latitude and between 126<sup>04</sup>3' and 126<sup>04</sup>7' W. longitude in the Sturdee River - Finlay River area, Toodoggone River Map Sheet, 94E 2, Omenica Mining Division (figures 1 and 2).

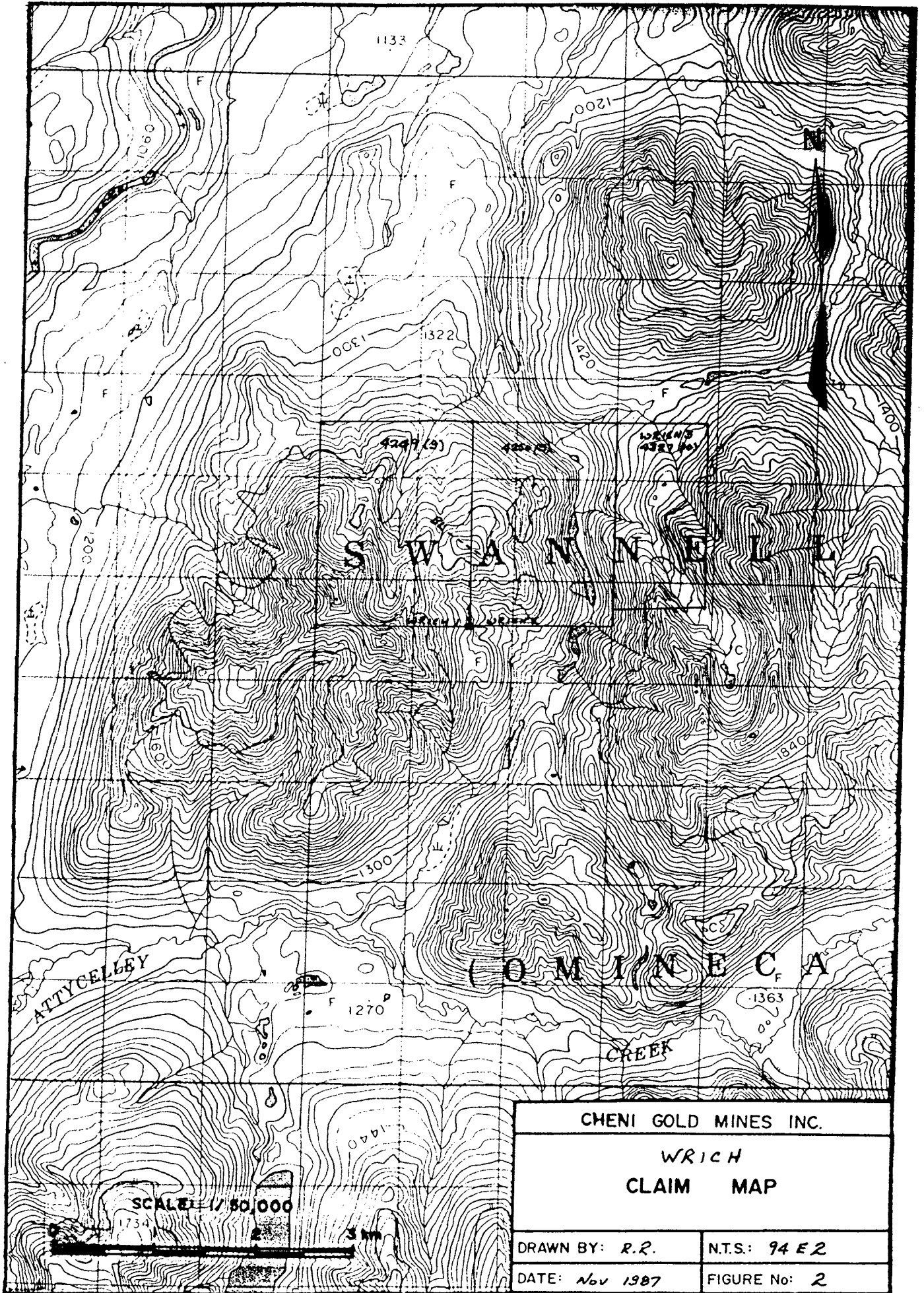
Access to the property is by fixed-wing aircraft from Smithers to the Sturdee Valley Airstrip, a distance of 280 km, from Sturdee Valley to Cheni's camp by road, a distance of 35 km, and from Cheni's camp to the property by helicopter, a distance of 35 km.

### Physiography

Topography is moderate to steep; elevation ranges from 1220 to 2020 meters above sea level. Outcrop exposure is poor over the grid area.

Higher elevations are above the tree line, while lower





elevations are covered with spruce and fir.

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 claims will be in good standing until 1992.

The claim consists of the following:

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Wrich 1	12	4249	Sept. 9, 1981
Wrich 2	12	4250	Sept. 9, 1981
Wrich 3	8	4327	Oct. 15, 1981

Property History

Cheni Gold Mines first carried out silt sampling in the area during 1980. Anomalous gold values were obtained and the ground was staked the following year.

Work during 1982 included geological mapping, rock sampling, and soil geochemical sampling. This work revealed a zone of fumarolic-type, clay-pyrophyllite alteration within the Toodoggone volcanic rocks. Coincidental with the alteration, anomalous gold values of up to 790 ppb, and anomalous silver values of up to 29.5 ppm were obtained in the soil geochemical program. Rock sampling did not provide any significant values, with the exception of one sample which returned 0.192 oz/ton gold and 20.42 oz/ton silver.

Work during 1985 consisted of detailed geologic mapping, prospecting, and VLF electromagnetic and VLF electromagnetic resistivity surveys. The VLF electromagnetic survey delineated four conductors thought to indicate the boundaries between different hydrothermally altered zones and post mineral faults. The VLF electromagnetic resistivity survey delineated two distinct, narrow zones of high resistivity within the clay-pyrophyllite alteration zone. These zones of high resistivity were thought to represent chalcedony-quartz breccia zones as seen in float and outcrop in the grid area.

#### GEOLOGY

The Wrich claim group is underlain by Toodoggone and Takla volcanic rocks.

The Toodoggone volcanic rocks consist of crystal, crystal lapilli, and welded tuffs. They occur on Wrich 2 and 3 claims and on the eastern portion of Wrich 1 claim. Rocks which have not been subjected to hydrothermal alteration have a purple to medium to dark grey groundmass. The purple colour results from the presence of hematite and the grey colour results from the presence of ferromagnesian minerals in the groundmass.

The Takla volcanic rocks occur in the western portion of Wrich 1 claim and are primarily a mafic volcanic sequence. They are in fault contact with the Toodoggone volcanics to the east.

The lithologic units and later chalcedony-quartz breccia zones are affected by several strong  $120^{\circ}$  trending fault zones



showing evidence of right lateral movement. Diamond drilling confirmed the presence of intense faulting; represented by thick clay seams.

#### MINERALIZATION AND ALTERATION

A zone of intense fumarolic-type clay-pyrophyllite alteration in association with chalcedony-quartz breccia zones occurs in the Toodoggone volcanic rocks in the grid area. Rocks are altered to clay + chalcedony + manganese oxides + iron oxides +/- quartz +/- alunite +/- pyrophyllite. Chalcedony occurs as matrix and as fragments in breccias and as narrow veinlets. Quartz is relatively rare but occurs in vugs and narrow fractures. Minor pyrophyllite is associated with quartz and chalcedony. Banded chalcedony was also observed. The banding as well as the chalcedony occurring as both matrix and fragments in breccia zones suggest a multi-stage episodicity of the mineralizing system.

#### DIAMOND DRILLING PROGRAM

During the period between July 20, 1987 and August 8, 1987 a total of 883.36 meters of BQ sized diamond drill holes were drilled in five holes (figure 3).

The purpose of drilling was to determine the nature of the conductors delineated by the VLF electromagnetic survey, and the nature of the highly resistive zones delineated by the VLF electromagnetic resistivity survey. It was believed that the conductors were related to the contact between the clay-

pyrophyllite alteration zone and post mineral faulting. The highly resistive zones were believed to be caused by chalcedony-quartz breccia zones within the Toodoggone volcanic rocks.

Drilling revealed the presence of intense faulting. This was characterized by several large clay zones.

#### CONCLUSIONS AND RECOMMENDATIONS

Due to intense faulting within the grid area, considerable difficulties were encountered during drilling. Hole 87-W1 was lost due to squeezing by the clay zones. Casing had to be set up to 30 meters deep due to poor subsurface ground conditions.

The dominant rock type in the grid area is a dacitic crystal tuff. It is characterized by small (millimetric) potassic feldspar phenocrysts in a grey to dark green chloritic altered tuffaceous groundmass. It also contains lapilli fragments and ash-flow sequences. This is underlain by a feldspar megacrystic tuff characterized by the occurrence of feldspar phenocrysts up to 5mm in a similar tuffaceous groundmass as above.

Mineralization is confined to the presence of quartz-chalcedony and pyrophyllite stringers and fracture breccias. Assays returned from the silicified sections show low to null gold and silver mineralization.

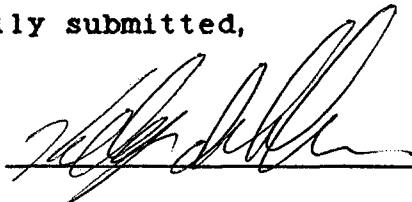
The faulting noted in the area appears to be largely post mineralization as the silicified section of the core are generally broken with clay gouge intermixed.

We recommend that no further work be performed in the

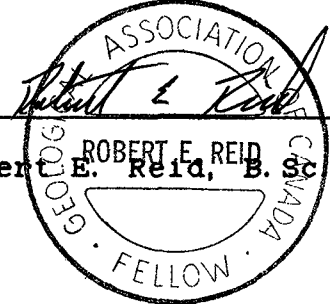
area of the grid that was drilled off.

Any further exploration on the property should consist of prospecting, a geochemical survey, and possible geophysical work to determine the cause of the previously obtained geochemical anomalies in the soils.

Respectfully submitted,



Kelly L. Illerbrun, B. A. Sc.



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

STATEMENT OF EXPENDITURES

## DRILLING

D. J. Drilling Ltd.	W1 = 73.15m	
	W2 = 283.77m	
	W3 = 108.51m	
	W4 = 149.40m	
	W5 = 268.53m	
	=====	
Total -	883.36m = 2898 ft	
	@ \$18/ft.....	\$ 52,166.93

## HELICOPTER

Northern Mountain Helicopters	
75.3 hours @ \$590/hr .....	\$ 44,427.00

## FIXED - WING

Central Mountain Air	
DC-3 Flights July, 25 1987	
Fuel and Supplies .....	\$ 3,494.25

## CAMP SUPPORT

89.3 Man-days @ \$30/day .....	\$ 2,679.00
--------------------------------	-------------

## LABOUR SUPPORT

Steward, J.	4.0 days @ 120.00/day = \$ 480.00	
Southeast, M.	1.9 days @ 65.00/day = \$ 123.50	
Morris, C.	2.4 days @ 65.00/day = \$ 156.00	
Plecash, D.	2.0 days @ 166.66/day = \$ 332.32	
Tegart, P.	3.0 days @ 230.00/day = \$ 690.00	
=====		
Total Labour Cost	= \$1782.82	
+ Fringes (15%)	= \$ 267.42	
.....		\$ 2,050.24

TOTAL PROPERTY ASSESSMENT COST .....	<u>\$104,817.42</u>
--------------------------------------	---------------------

REFERENCES

CRAWFORD, S.A. and VULIMIRI, M.R. (1982) Geological and Geochemical Report on the Wrich 1, 2, and 3 Claims, Omenica Mining Division.

VULIMIRI, M.R. and CROOKER, G.F. (1985) Geological and Geophysical Report on the Wrich 1, 2, and 3 Claims, Omenica Mining Division.

CERTIFICATE OF QUALIFICATIONS

I, Peter F. Tegart, of 3969 Sunnycrest drive, North Vancouver, B.C., 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 the industry 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.

Smithers, British Columbia


Peter F. Tegart

CERTIFICATE OF QUALIFICATIONS

I, Kelly L. Illerbrun, of Box 4569, #39 4430 Hwy 16 W. Smithers, B.C., certify that:

1. I am a geologist, employed by Cheni Gold Mines Inc.
2. I graduated from the University of British Columbia with a Bachelor of Applied Science in Geological Engineering.
3. I have been practising my profession as an exploration and mine geologist and engineer since 1987.
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.

Smithers, British Columbia

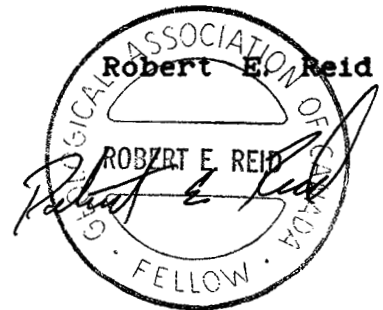
  
Kelly L. Illerbrun

CERTIFICATE OF QUALIFICATIONS

I, Robert E. Reid, of Box 3669, Elgin Ave, Smithers, B.C., 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 been practising my profession as an exploration and mine geologist since graduation in 1971.
4. I personally examined the property with respect to the 1987 field program.
5. I hold British Columbia Underground Shiftboss certificate #UG 1008.
6. I am a Fellow of the Geological Association of Canada and a member of the C.I.M.M.
7. I have no financial interest, either direct or indirect, in the property.

Smithers, British Columbia





CERTIFICATE OF QUALIFICATIONS

I, Donald C. Plecash, of Box 2694, 3869 - 12 th Ave Smithers, B.C., certify that:

1. I am a geologist, employed by Cheni Gold Mines Inc.
2. I attended Queens University, Kingston, ON, from 1947 to 1950.
3. I have been practising my profession as an exploration and mine geologist and engineer since 1950 with a hiatus between 1973 and 1980.
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.

Smithers, British Columbia

Donald C. Plecash

S E R E M L T D .

DIAMOND DRILL LOG

PROJECT: TODROGONE

HOLE NO. 87 W 1

ZONE: WRICH

CORE SIZE: START BQ

LOCATION (N.T.S.) 94 E 2

CHANGE \_\_\_\_\_

CLAIM: WRICH 1

DATE STARTED: JULY 20 1987

MINING DIVISION: OMINECA

DATE COMPLETED: JULY 22 1987

LOGGED BY: NR : KI

DATE: JULY 25 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) \_\_\_\_\_

TOTAL LENGTH 73.15 M.

GRID ZONE CO-ORDINATES 176.5 S 51.5 W

ELEVATION AT COLLAR 1690 M.

DIRECTION:

DEPTH AZIMUTH INCLINATION

DEPTH	AZIMUTH	INCLINATION
COLLAR	GRID NORTH 0400	-52°

DEPTH METERS	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
	0-27.43 CASE OVERBURDEN NO CORE RECOVERED		20					
			21					
			22					
			23					
			24					
			25					
			26					
27.43		27.43 - 73.15 <u>DACTE LAPILLI CRYSTAL TUFF</u>	27					
18%		15-20% DARK GREEN - EPIDOTIZED?	28					
28.9	28.96: 8cm GOSSE.	ELONGATED POIKILITIC LAPILLI	29					
		WITH 1% DARK PURPLISH ROUNDED						
65%		LAPILLI WITHIN A FINE GRAINED	30					
		PORPHYRITIC (K-FELDSPAR ? 10%) LIGHT	31					
31.7		GREY DACITIC GROUNDMASS.	32					
32.31		SOMEWHAT VAGUE ORIENTATION						
64%		OF EPIDOTIZED LAPILLI AT 30°	33					
33.53		TO AXIS	34					
27%		MATERIAL NEAR START OF HOLE						
35.36		CONTAINS 3-5% FINELY DISSEMINATED	35					
		MAFICS DECREASING DOWNWARDS.						
		AFTER 50 METERS NO MAFICS NOTED	36					
87%		31.70 - 35.36% WEAK EPIDOTIZATION	37					
		OF GROUNDMASS						
38.40			38					
			39					
35%			40					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
40.23	40.11 - 40.23		40			
20%	COARSE		41			
41.76			42			
44.70	43.3 - 43.5		43			
	BROKEN WITH COARSE		44			
44.81			45			
100%			46			
46.02			47			
82%			48			
47.85	47.75 - 47.85		49			
	COARSE		50			
27%			51			
50.6	50.6 3cm COARS.		52			
53%			53			
50.5			54			
36%			55			
52.73			56			
65%			57			
53.69			58			
62%			59			
54.41			60			
84%						
57.0						
38%		57.3 - 70.41 SHEAR ZONE.				
57.91		NUMEROUS NARROW GOUGE SECTIONS.				
86%						
59.13						
79%						
57.87						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
86%			60					
61.26 100% 61.72			61					
74%			62					
62.8			63					
75%			64					
67.8			65					
52%			66					
66.4			67					
21%			68					
68.28 67% 68.88			69					
59%			70					
70.41 37% 71.02		70.41 - 71.12 <u>MAJOR FAULT</u> Gouge.	71					
		71.12 - 73.15 <u>SHEAR ZONE</u> NUMEROUS SECTIONS FRAGMENTAL Gouge	72					
		<u>73.15 M E.O.H.</u>	73					
		HOLE ABANDONED DUE TO SQUEERING CLAY ZONES.						

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: TOODOGGONE

HOLE NO. 87 W2

ZONE: WRICH

CORE SIZE: START BQ

LOCATION (N.T.S.) 94E2

CHANGE \_\_\_\_\_

CLAIM: WRICH

DATE STARTED: July 22, 1987

MINING DIVISION: OMENICA

DATE COMPLETED: July 27, 1987

LOGGED BY: NR & KI

DATE: July 27, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) \_\_\_\_\_

TOTAL LENGTH 283.77

GRID ZONE CO-ORDINATES 1385 105W

ELEVATION AT COLLAR 1690 M

DIRECTION: DEPTH AZIMUTH INCLINATION

DIRECTION:	DEPTH	AZIMUTH	INCLINATION
	COLLAR	<u>GRID NORTH</u> <u>090°</u>	<u>- 52</u>
	<u>275.84</u>		<u>- 52.5</u>

DEPTH METRES	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
	CASING		1					
		2						
		3						
		4						
		5						
		6						
		7						
		8						
		9						
		10						
		12						
		14						
		16						
		18						
		20						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Al Oz/ton	Ag Oz/ton	
	0-30.48 casing		22				
			24				
				26			
				28			
				30			
		30.48 - 34.85 dacitic? xtal lapilli tuffs	30				
		30.48 - 35.05 light grey dacitic xtal tuff. 5-10% white lvs phenocrysts up to 3mm in light grey dacitic ground mass. contains 1-2% pyrite finely disseminated (whole lvs)	32				
		35.05 - 40.23 pale grey gouge in short an broken sections of lapilli tuff in dacitic ground mass. lapilli tuff ends at Al. 76.	34				
			36				
			38				
			40				



DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
		41.76-45.37 Light Grey Dacitic xtal Tuff.				
	42.9-44.69 Broken	contain several lapilli contains minor carbonate veinlets	42			
	45.37-45.7 Gouge		44			
		46.7-50.7 Pale grey green feldspathic ash. containing nondescript dark fragments, Numerous gouge sections	46			
			48			
	50.7-51.0 Gouge.	50.7-72.55 Pale Gray Dacite xtal Tuff. contains few lapilli	50			
			52			
	52.87-52.95					
	53.02-53.09					
	53.64-54.10					
	54.47-56.73					
	58.42-59.46					
	61.57-61.87 All are gouge within a shear zone					
			56			
			58			
			60			

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
			62				
			64				
			66				
			68				
			70				
		72.55-86.74	72				
		Pale grey green ash and mud. Few fragments at least three varieties. Several minor gougy shears and fractures.	74				
			76				
			78				
			80				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
	80.0-81.6 Gauge					
	82.1-82.21 cleared Gauge		82			
			84			
	85.33-86.5 Fault Gauge.		86			
		86.74-94.85 Grey Green dacitic xtal Tuff, weak pinkish hematization of feldspars pervasive throughout.	88			
		89.1-89.31 Breccia section containing a variety of fragments including jasper.	90			
			92			
		94.85-148.50 Dacitic Xtal Tuff - mm feldspar-clay	94			
	94.85-95.06 Gauge	94.85-100.0 Light grey dacitic xtal Tuff. - contains several irregular calcite veinlets. - no lapilli fragments	96			
			98			
			100			

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
		100.0 - 105.44 Medium green Dacitic xtal Tuff. Texturally same as the above.				
		105.53 - 107.69 Light grey Dacitic xtal. Tuff. Bottom contact is 25° CA.	102			
	105.72 - 105.53 Gauge.		104			
	105.77 - 106.7 Broken		106			
		107.69 - 148.5 Light to Medium Green Dacitic xtal Tuff.	108			
			110			
			112			
	112.9 - 113.1 Gauge.		114			
	113.5 - 115.31 several gangy structures.		116			
		- 118 - Round 3-4cm fragment	118			
			120			

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
		122 - darker lapilli frags start showing up 1-8 cm in size	122			
			124			
			126			
			128			
		130.37-130.92 Light grey dacitic tuff.	130			
			132			
			134			
			136			
			138			
			140			
132.6-132.67 Gauge. 132.5-132.2 Gauge						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
			142			
			144			
			146			
		<u>148.5 - 173.4</u>	148			
		Dark green Dacitic Lapilli xtal Tuff. Lapilli are preferentially epidotized in chloritized. preferential orientation at 60° to CA. more random towards bottom of unit.	150			
			152			
			154			
			156			
			158			
			160			

BT SW

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			162					
			164					
			166					
			168					
			170					
			172					
		173.4 - 232.17 Light grey Dacitic Xst + 2000 ft. - occasional stratified lapilli - Vol. Greywacke	174	26793	<0.01	<0.1		
		174.25 - 175.35 vein of white pyrophyllite.		26794	<0.01	<0.1		
		175.35 4cm of gouge						
		175.39 25cm of irregularly banded pyrophyllite pyrite	176					
		1 hairline to millimeter pyrophyllite stringer per meter	178					
			180					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			182					
			184					
		185.9-188 Fault Breccia. Fragments of Dacitic Tuff within gouge.		✓				
		186.7-186.8 grey chalc. fragments as fault breccia.	186	✓	26795	<0.01	<0.1	
		187.4 Irregular shaped darkgreen to black chalc. fragments haloed by a pyrite infilling In a .08m dark grey chalc band.		✓	26796	<0.01	0.3	
			188	✓	26797	<0.01	0.3	
		187.6-188 mainly chalc. fragments.		✓	26798	<0.01	<0.1	
		188-189.37 Light grey Dacitic tuff Tuff. contain several pyrophyllite stringers.	190	✓	26799	<0.01	<0.1	
				✓	26800	<0.01	<0.1	
		189.37-190.55 Grey chalc. vein with pyrophyllite stringers from 190-190.25 and 190.45-190.55	192	✓	26801	<0.01	<0.1	
				✓	26802	<0.01	<0.1	
		192.64-192.94 Grey chalc. - pyrophyllite vein.	194	✓	26803	<0.01	<0.1	
				✓	26804	<0.01	<0.1	
		193.47-193.87 Dark grey chalcedony- pyrophyllite fault bx.	196	✓	26805	0.01	<0.1	
		196.55-196.95 chalcedony-pyrophyllite bx vein. containing narrow bands of up to 15% pyrite. several jasperoid fragments on bottom contact.		✓	26806	0.01	<0.1	
			198	✓	26807	<0.01	<0.1	
				✓	26808	<0.01	<0.1	
			200	✓	26809	<0.01	<0.1	



DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		196.95-197.66 Fault Gouge		26810	<0.01	<0.1		
		197.66-205.87 Light Grey Dacite + TAL TUFF. pyrophyllite stringers at low angle to core axis	202	26811	<0.01	<0.1		
				26812	<0.01	<0.1		
			204	26813	0.01	<0.1		
				26814	<0.01	<0.1		
		205.87-221.24 Shear Zone 40% Gouge 60% Broken Core,	206	26815	<0.01	<0.1		
		206.05-206.73 auto breccia		26816	<0.01	<0.1		
		207.2-207.6 Fault brecciated chalcedony vein.		26817	0.01	<0.1		
	207.6-208.4 Gouge	208.4-209.6 Crackle chalcedonic pyrophyllitic fault bx.	208	26818	0.01	<0.1		
				26819	0.01	<0.1		
			210	26820	<0.01	<0.1		
				26821	0.01	0.1		
			212	26822	0.01	<0.1		
				26823	<0.01	<0.1		
			214	26824	<0.01	<0.1		
				26825	0.01	0.1		
			216	26826	0.01	0.5		
				26827	0.02	<0.1		
			218	26828	0.01	0.1		
			220	26829	0.01	0.1		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS				
					Au Oz/ton	Ag Oz/ton			
					26830	0.01	0.2		
					26831	0.02	<0.1		
			222		26832	<0.01	0.1		
					26833	0.01	<0.1		
			224		26834	0.03	0.1		
					26835	<0.01	0.1		
		226.6-228.6 sheared dacite tuff with pyrophyllite stringers.	226		26836	<0.01	0.2		
					26837	<0.01	0.1		
			228		26838	<0.01	0.2		
					26839	<0.01	0.1		
		229.6 - 230.28 sheared, fragmental epidotized dacite. Bottom contact is 1cm gouge.	230		26840	<0.01	0.1		
		231.34-232.3 Fragmental fault gouge.			26841	<0.01	0.2		
		232.3-233.0 welded lapilli tuff.	232		26842	0.01	0.1		
					26843	0.01	0.2		
		233-233.56 auto breccia - dacitic Bottom contact has 1cm gouge.	234		26844	0.01	0.3		
					26845	<0.01	0.1		
		233.56-245.2 Fractured & sheared Reworked chalcidonic Breccia. comprised of angular to subrounded chalc and dacite fragments within a siliceous and/or hematitic ground mass. Appears to be single phase med grey chalc.	236		26846	<0.01	0.1		
					26847	0.01	<0.1		
			238		26848	0.01	<0.1		
					26849	0.01	0.3		
			240						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS	
					Au Oz/ton	Ag Oz/ton
				✓ 26850	0.01	0.3
			242	✓ 26851	0.02	0.1
				✓ 26852	0.01	0.1
			244	✓ 26853	0.02	0.6
				✓ 26854	0.01	0.4
		245.2 - 245.6	246	✓ 26855	0.01	0.2
				26856	0.01	0.1
		245.6 - 283.77	248			
		Feldspar Megacrystic Tuff.				
		245.6 - 249.33	250			
		coarse fragmental autobrecciated Tuff, yellowish brown bleaching along fractures.				
		249.33 - 251.43				
		Fault Gouge.				
		251.43 - 259.4	252			
		Green Mega Crystic Tuff				
			254			
			256			
			258			
		259.4 →	260			
		ground mass becomes purple due to lematization.				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
		259.4-261.44 Numerous Fragments (lapilli?) in a Tuff.					
		261.44-263.04 Intense Ocreous hematization.	262				
	263.04-264.36 Gouge.	263.04-264.36 Gouge	264				
		264.36-263.77 Purple Groundmass Megacrystic Tuff.	266				
		269.66-269.74 Calcite fracture controlled breccia and/or intense stringer zone.	268				
			270				
			272				
			274				
			276				
			278				
			280				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
			282				
		283.77 EOH	284				
			286				
			288				
			290				
			292				
			294				
			296				
			298				
			300				

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-W-3

ZONE: WRICH

CORE SIZE: START 130

LOCATION (N.T.S.) 94E2

CHANGE \_\_\_\_\_

CLAIM: WRICH

DATE STARTED: JULY 27, 1987

DATE COMPLETED: JULY 30 1987

MINING DIVISION: OMULECA

LOGGED BY: D.C.P

DATE: AUG 1, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) \_\_\_\_\_

TOTAL LENGTH 108.5m

GRID ZONE CO-ORDINATES 47N 160W

ELEVATION AT COLLAR 1680.0

DIRECTION: DEPTH AZIMUTH INCLINATION

DIRECTION:	DEPTH	AZIMUTH	INCLINATION
COLLAR		190°	-48°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
		0-9.14 OVERBURDEN	0 2 4 6 8 10 12 14 16 18					
		9.14-17.35 MEDIUM TO DARK GREEN DACITIC XTAL TUFF 9.14-11.70 BLEACHED AND MUDDIED 13.3-17.07 GOLD WITH FRAGMENTS						
		17.35-19.96 - soft light grey fault gouge						
		17.35 - 19.20 Grey Lapilli Tuff - top of unit is stratified at 10° to c/a. grading into unsorted Vol. greywacke near middle of unit. to bottom. Fragments vary in composition and size from						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
21		millimetric to centi-metric at 10° c/a.					
22			22				
23							
24			24				
25							
26			26				
27							
28			28				
29							
30		28.96 - 32.50 MEDIUM TO LIGHT GREY DACITIC XTAL TUFF WITH SMALL STRINGERS AND BLEBS OF CALCITE	30				
31							
32		32.50 - 39.60 MEDIUM TO LIGHT GREY GOUGE	32				
33							
34			34				
35							
36			36				
37							
38			38				
39							
40		39.60 - 42.8 MEDIUM GREY GOUGE WITH SOME FRAGMENTS					



DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
41		OF MEDIUM TO DARK GREEN DACITIC XTAL TUFF.	41					
41			42					
43		42.5 - 44.65 MEDIUM GREY GOUGE	43					
44			44					
45		44.65 - 51.21 MEDIUM TO LIGHT GREY DACITIC XTAL TUFF WITH FRAGMENTS OF DARK DACITE AND CHALCEDONY	44.65					
46			45	25151	<0.01	<0.1		
47			46					
48				25152	<0.01	<0.1		
49			47					
50				25153	<0.01	<0.1		
51			48					
52				25154	<0.01	<0.1		
53			49					
54				25155	<0.01	<0.1		
55			50					
56				25156	<0.01	<0.1		
57		51.21 - 61.57 LIGHT TO MEDIUM GREY GOUGE WITH FRAGMENTS OF DACITE IN IT	51					
58				25157	<0.01	<0.1		
59			52					
60				25158	<0.01	<0.1		
			53					
				25159	<0.01	<0.1		
			54					
				25160	<0.01	<0.1		
			55					
				25161	<0.01	0.2		
			56					
				25162	<0.01	0.1		
			57					
				25163	<0.01	0.1		
			58					
				25164	<0.01	0.2		
			59					
				25165	<0.01	0.1		
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
61		- 61.57 - 82.0 Rebrecciated Volcanic BRECCIA WITH FRAGMENTS OF CHALCEDONY 80.5 - 81.82 CORE IS CARRYING 10% - 15% WHITE PYROPHYLITE	61	25166	40.01	0.4		
62	62		25167	40.01	0.1			
63	63		25168	40.01	0.1			
64	64		25169	40.01	0.4			
65	65		25170	40.01	40.1			
66	66		25171	40.01	40.1			
67	67		25172	40.01	0.1			
68	68		25173	40.01	0.1			
69	69		25174	40.01	0.4			
70	70		25175	40.01	0.3			
71	71		25176	40.01	0.3			
72	72		25177	40.01	0.3			
73	73		25178	40.01	0.1			
74	74		25179	40.01	0.4			
75	75		25180	40.01	<u>1.3</u>			
76	76		25181	40.01	0.1			
77	77		25182	0.02	<u>1.3</u>			
78	78		25183	40.01	0.1			
79	79		25184	40.01	40.1			
80	80		25185	40.01	40.1			

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
81				25186	0.01	0.40		
82		82.0-89.3 DARK GREEN DACITIC XTAL TUFF	81					
83			82	25187	0.04	3.70		
84			84					
85			86					
86			88					
87		87.3-89.7: REMOBLIZED DACITIC BRECCIA WITH FRAGS OF DREITE AND CHALCEDONY	88					
88			90					
89		89.7-90.4 DARK GREEN MEGACRYSTIC TUFF	92					
90			94					
91		<u>92.0-108.51 EAM Xal Tuff</u> - characterized by clay altered millimetric feldspars - little or no lapilli detectable.	96					
92			98					
93								
94								
95								
96		96.4-100.60 LIGHT GREY DACITIC XTAL TUFF.						
97								
98								
99								
100								

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
101		100.60-108.51 DARK GREEN MEGACRYSTIC LAPPILLI TUFF						
102		101.4-102.41-BROKEN AND RE-	102					
103		-MOBILIZED WITH GOUGE						
104		102.4-105.85 BLEACHED AND GOUGE MIXED WITH A FEW FRAGMENTS	104					
105		105.85-108.5 - SOME BLEACHING WITH LITTLE GOUGE						
106			106					
107								
108		108.51 - E.O.H.	108					
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								

87-W-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
0								
9.14								
35%	Mud							
10.06								
100%	BROKEN w SOME Mud.							
17.80								
20%	Mud w SOME FRAGS.							
17.07								
60%	BROKEN							
17.90								
50%	Mud.							
19.16								

OVERBURDEN

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
55.6	741471							
72.5	Broken							
100.7	741471							
13.7	Broken							
90.7								
25.6								
100.6								
28.94								
100.6								
2.0								
160.2	Mod & FRAGS.							
4.44								
85.7	Mud Gouge							
7.19								
100.2	Mud Gouge							
9.10								
	Mud Gouge & FRAGS							
7.6								

92

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
852	Mud Gouge							
1.3	Mud Gouge							
1002	FRACS							
2.8	Mud Gouge & FRACS							
906	Mud Gouge & FRACS							
1.52								
1002								
1.55								
602	Mud Gouge & FRACS							
0.6	Mud Gouge & FRACS							
902	Mud Gouge & FRACS							
1.20								
252								
2.43	Mud Gouge							
502								
547	Mud Gouge & FRACS							
1002								
352								

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
902	Mud Gouge & Broken Core							
1.57 1002 2.19	Mud & Broken FRAGS							
1002								
4.92								
1002	Mud Gouge & FRAGS							
67.97								
956	Mud Gouge & FRAGS							
1.02								
956	CLAY & FRAGS.							
1.07 802 5.29								
956	CLAY & FRAGS							
8.03								



DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAY			
					Au Oz/ton	Ag Oz/ton		
1006	CLAYEY - MUD GOUCE & FROGS							
20.9								
556	BROKEN - CLAY & MUD							
1.84								
852	1/2 MUD - CLAY BROKEN							
3.82								
590	BROKEN							
6.87								
1006								
9.0								
1062								
0.22								
1006								
1.14								
902	5 CM GOUCE (fault)							
3.27								
852	BROKEN							
4.18								
802								
6.62								
1609	BROKEN, SAND MUD.							
8.76								

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
24.28 1002 958								
27.48 1002 23.33	Mud Gouge in FRAS							
1002	Mud Gouge CLAY. FRAS							
26.7 956	STONEL, CRUSHED Mud.							
28.51		108.91 E.O.H.						

S E R E M L T D .

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

PROJECT: Toooogone

HOLE NO. 87 W4

ZONE: WRICH

CORE SIZE: START 30

LOCATION (N.T.S.) 99 E 2

CHANGE \_\_\_\_\_

CLAIM: WRICH

DATE STARTED: JULY 30/87

MINING DIVISION: OMINECA

DATE COMPLETED: \_\_\_\_\_

LOGGED BY: P.T.

DATE: AUG. 1/87

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) \_\_\_\_\_

TOTAL LENGTH 149.40

GRID ZONE CO-ORDINATES 90S 52.5W

ELEVATION AT COLLAR 1718 M.

DIRECTION:      DEPTH      AZIMUTH      INCLINATION

DIRECTION:	DEPTH	AZIMUTH	INCLINATION
COLLAR		39°	-48°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
			1				
			2				
			3				
			4				
			5				
			6				
			7				
			8				
			9	25188	40.01	0.1	
			10	25189	40.01	0.1	
			11	25190	40.01	0.1	
			12	25191	40.01	0.1	
			13	25192	40.01	40.1	
			14	25193	40.01	40.1	
			15				
			16				
			17				
			18				
			19				

CASING  
TO 3.96

3.96

40% R

5.18

10% R

6.01

10% R

7.00

10% R

7.95

60% R

8.84

60% R

10.06

70% R

11.89

90% R

13.72

95% R

15.55

90% K

16.92

CASING TO 3.96

3.96 - 39

Dacitic Vol Tuff - Brecciated  
 - feldspars completely altered to white  
 clay, average size 1-3 mm.  
 - matrix bleached to light grey  
 - texture of unit appears to fine  
 towards the bottom of hole  
 after which the unit - below 39m -  
 has a noticeable increase in  
 elongated lapilli fragments.

3.96 - 49.0

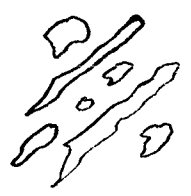
this section characterized by  
 by millimetric fractures containing  
 red hematitic pigment with  
 density of approx 50/meter  
 surrounding brecciated fragments  
 and as milli-metric slips.

3.96 - 14.50

- 0.5 - calcite veinlets - centimetric  
 30/meter about 70° c/h.

18.00 - 21.00 - Fault  
 white clay gouge - contact 30° c/h.  
 hematite fractures + slips  
 25-30° c/h.

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			21					
			22					
		24.2 - 31.0 - calcite fracture fillings surrounding rebrecciated fragments no orientation.	23					
			24					
		25.2 - 25.3 - Qtz vein 20° c/h.	25					
			26					
			27					
			28					
			29					
			30					
31		31.0 - 32.3 <u>Fault</u> total core loss	31					
10% R			32					
32.3		32.3 - 33.65 - relatively whole core	33					
		33.65 - 36.3 - Completely bleached soft clay - original rock is barely recognizable. - supergene alteration cracks @ 45° c/h.	34					
			35					
			36					
			37					
			38					
		39.0 - 99.4 <u>Lapilli Tuff</u> - fragments elongated	39					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		<p>approximately 45° C/A, bleached, chloritized hematized over various widths, often fragments are completely altered to clay. Ground mass is predominantly fine (1-2 mm) feldspar Xal tuff.</p> <p>49.2 hematitic fracture supergene alt. stops 49.2 - 53.10 - matrix between fragments of lapilli is bleached</p> <p>52.4 Fault - 50° C/A</p> <p>start 53.10 matrix hematized purple colour.</p>	41					
			42					
			43					
			44					
			45					
			46					
			47					
			48					
			49					
			50					
			51					
			52					
			53					
			54					
			55					
			56					
			57					
			58					
			59					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
			61					
			62					
			63					
			64					
			65					
			66					
			67					
			68					
			69					
	69.6	67.60-70.43. clay altered zone, possible fault, poor core recovery.	70					
	clay		71					
	70 40%R		72					
	71		73					
			74					
		74.5-79.0 dark purple hematized matrix	75					
			76					
			77					
			78					
			79					
		79.0-90.2 bleached light green matrix, clay.						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		81.8-83.8 - completely pale green clay altered section	81					
	81.6		82					
	clay		83					
	83.8		84					
			85					
		86.5-90.2 Recrystallized clay altered, surrounding rounded fragments	86					
	86.6		88					
	clay							
	88.7							
	89.6							
	clay							
	90.2		90					
		90.2 - 99.4 - 80% Lapilli Tuff with very little xal content contains high proportion of small lapilli, reducing in size to the bottom of unit						
			92					
			94					
			96					
		97.3-97.35 - minor clay filled fault						
			98					
		99.4 - 127.8 Fine grained Lapilli & xal Tuff						



DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		<p>107.8</p> <p>100.5-107.8 - start of bleaching and hematitic fractures</p> <p>- with hint of stratification at 50° c/h, occasional blocks of feldspar xol Tuff and aphanitic layered banding.</p>	<p>102</p> <p>104</p> <p>106</p> <p>108</p> <p>110</p> <p>112</p> <p>114</p> <p>116</p> <p>118</p>					
		<p>109.5 - 111.6 - oxidized fractures</p>						
		<p>115.40 - 122.2 - oxidized fractures</p> <p>115.40 - 132.3 - Bleached in part amorphous texture</p>						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
		122.9 - clay gouge	122				
	clay gouge 123.6 123.8	123.6 - 123.8 Fault	124				
		127.8 - EOH - Lapilli Tuff in part Vol. Breccia	126				
		129.8 - 132.3 - rebrecciated hemi filling unit	128				
		132.3 - 134.5 FAULT GOUDGE	130				
	132.3		132				
	clay gouge						
	134.5		134	25194	<0.01	0.1	
		135.2 - 139.1 - Pyrophyllite and quartz breccia filling, fragments altered to grey colour - silicified - disseminated pyrite 1-2%	136	25195	<0.01	<0.1	
				25196	<0.01	<0.1	
			138	25197	<0.01	<0.1	
				25198	0.01	<0.1	
		139.1 - 142.2 chloritic matrix		25199	0.01	<0.1	

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
		surrounding tuffaceous fragments 4-5 pyrophyllite fracture fillings/meter						
		142.2 - 148.2 - Vol xal & lappilli tuff bleached, fragments & xal's altered to clay. - pyrophyllite & gts stringers @ 4-5/meter	142 144					
		148.2 - 149.4 EOH - same as 142.2 - 148.2 but has dark green chloritic matrix.	146 148					

SEREM LTD.

DIAMOND DRILL LOG

PROJECT: Toodoggone

HOLE NO. 87-WS

ZONE: Wrich

CORE SIZE: START BQ

LOCATION (N.T.S.) 94E2

CHANGE \_\_\_\_\_

CLAIM: Wrich

DATE STARTED: Aug 3 1987

DATE COMPLETED: Aug 8 1988

MINING DIVISION: Omerica

LOGGED BY: D.C.P.

DATE: AUG. 10, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.) \_\_\_\_\_

TOTAL LENGTH 268.53

GRID ZONE CO-ORDINATES 1505 41.5E

ELEVATION AT COLLAR 1675 M.

DIRECTION: DEPTH AZIMUTH INCLINATION

DIRECTION:	DEPTH	AZIMUTH	INCLINATION
	COLLAR	<u>GRID NORTH 040°</u>	<u>-50°</u>
	<u>265.48</u>		<u>-51.5°</u>

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
	CASING		2				
			4				
			6				
			8				
			10				
12.19				12			
55 <sup>6</sup>		BROKEN	12.19-50.90 XTAL TUFFS				
14.02		BROKEN - SLIGHT OXIDIZED	12.19-50.90 DARK TO MEDIUM GREY WITH AN INCREASING BUILD UP OF CALCITE PNEUMOS FROM 39.90 TO 50.90. (3MM IN SIZE) Fe'S TO 5% VEHICULATED.	14			
35 <sup>6</sup>				16			
17.07				18			
12 <sup>9</sup>		OXIDIZED GOUGE		20			
20.12							

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS				
					Au Oz/ton	Ag Oz/ton			
20.12									
30%	LIGHT GREY OXIDIZED MUD GOUGE		22						
23.16									
100%	30% CRUSHED CORE		24						
24.38									
30%	50% CRUSHED CORE		26						
26.52									
95%	LITTLE FRAGS OF Mud GOUGE SLAMMED THROUGHOUT.		28						
29.26									
95%	29.26-31.47 MUD GOUGE		30						
31.67									
95%	31.67-32.27 MUD GOUGE		32						
33.83									
100%	33.71-34.03 MUD GOUGE		34						
35.36									
90%	35.36-35.70 BLANKS WITH MUD GOUGE		36						
37.8									
100%			38						
39.93									
			40						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
100%							
42.06 100% 42.98			42				
45.32 - 46.02	BROKEN WITH MUD GOUGE		44				
98%							
46.02		46.02 - 47.85 - FEW LAPILLI FRAGS	46				
100%							
47.85	BROKEN CORE WITH MUD SEAMS		48				
94%	@ 48.35 (10cm) 49.29 (28cm)						
50.6		50.90 - 120.0 XTIAL LAPILLI TUFFS	50				
100%		FLAT ELONGATED LAPILLI WITH CORE TO AXIS OF 30°, FROM 50.90 TO 53.0. 53.0 - 53.8 LAPILLI'S ARE OCCASIONALLY ROUNDED	52				
53.64			54				
100%							
56.69			56				
100%							
59.74		57.05 - 59.45 - ODD DARK TO WHITE QZ PHENO UP TO 1cm IN SIZE	58				
		59.45 - 59.60 - 2 SMALL BANDS QZ CALVE (10MM BAND)	60				





DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
81.08							
96 <sup>9</sup> 96.6	82.22-82.52 MUD SEAM		82				
94.12	84.28-24.98 MUD SEAM		84				
98 <sup>6</sup> 98.6		85.10-120.00 INCREASE IN SIZE AND QUANTITY OF LAPILLA WITH SPORADIC ZONES OF BLEACHED AREAS UP TO 0.7 M IN LENGTH.	86				
87.17		87.17-120.0 ZONE OF INTENSE CHLORITE	88				
100 <sup>7</sup> 100.7			90				
90.22			92				
100 <sup>7</sup> 100.7			94				
93.27		93.27-93.37 - MALACONNY ZONE	96				
100 <sup>7</sup> 100.7			98				
96.32			100				
99.36							



DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
120.40		120.00-130.44 PYROPHYLITIC ALTERED XTAL TUFFS		25551	<0.01	0.1		
108.2			122	25552	<0.01	0.1		
123.44				25553	0.01	0.1		
100.2			124	25554	<0.01	<0.1		
126.49		125.07 - 3CM BAND QTZ 45° TO CORE AXIS		25555	<0.01	<0.1		
100.2			126	25556	<0.01	<0.1		
129.54				25557	<0.01	<0.1		
100.2			128	25558	<0.01	0.1		
132.89				25559	<0.01	1.0		
100.2		130.44-133.20 LARGE LAPILLI IN SPORADIC BLEACH ZONES	130	25560	<0.01	0.6		
135.94			130.4	25561	<0.01	0.2		
100.2			132					
132.89	MUD GAUGE	133.20-134.64 REDRECIATED WITH MUD GAUGE AND MIXED XTAL LAPILLI TUFF	134					
100.2			134					
135.94		134.64-140.29 REDRECIATED XTAL TUFF WITH A PYROPHYLITIC ALTERATION	134.64	25562	<0.01	0.2		
100.2			136	25563	<0.01	0.3		
138.99	MUD GAUGE WITH WASHED CORE		138	25564	<0.01	0.2		
				25565	<0.01	0.2		
			140	25566	<0.01	0.9		
			140.29 -					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS				
					Au Oz/ton	Ag Oz/ton			
100%		140.29-142.94 REDUCED XTIAL TUFF WITH FRAGS UP TO 7 CM IN SIZE							
117.02			142						
150%		142.94-223.22 ANDRESITIC XTIAL TUFF							
145.08		148.63-149.83 - HEMATITIC STAINING.	144						
100%			146						
148.13			148						
100%									
150.27			150						
100%									
153.31		152.58-160.91 OCCASSIONAL THIN BANDS OF QTZ	152						
100%			154						
155.75			156						
100%									
158.80			158						
			160						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
160.0								
161.54								
160.0		162.29-162.44 - SUTTLE ZONE (ASH)	162					
162.59			164					
166.42			166					
100.0			168					
169.97			170					
171.20			172					
100.0		173-173.84 SMALL BAND OF QTR EVERY 25 CM.	174					
174.35			176					
100.0			178					
177.40		177.60-208.82 FELDSPARS SOMEWHAT MORE PROMINENT WITH AN ORANGE HUE AND GROUND MASS BEING MORE CHLORITIC.	180					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
180.42 10%								
181.07								
100%			182					
183.79								
100%			184					
186.84								
100%			186					
105%								
189.90								
100%			188					
193.10								
100%			190					
196.14								
100%			192					
199.19								
		199.0 67Z STRINGEL 1CM THICK 70° TO CORE AXIS						
			194					
			196					
			198					
			200					

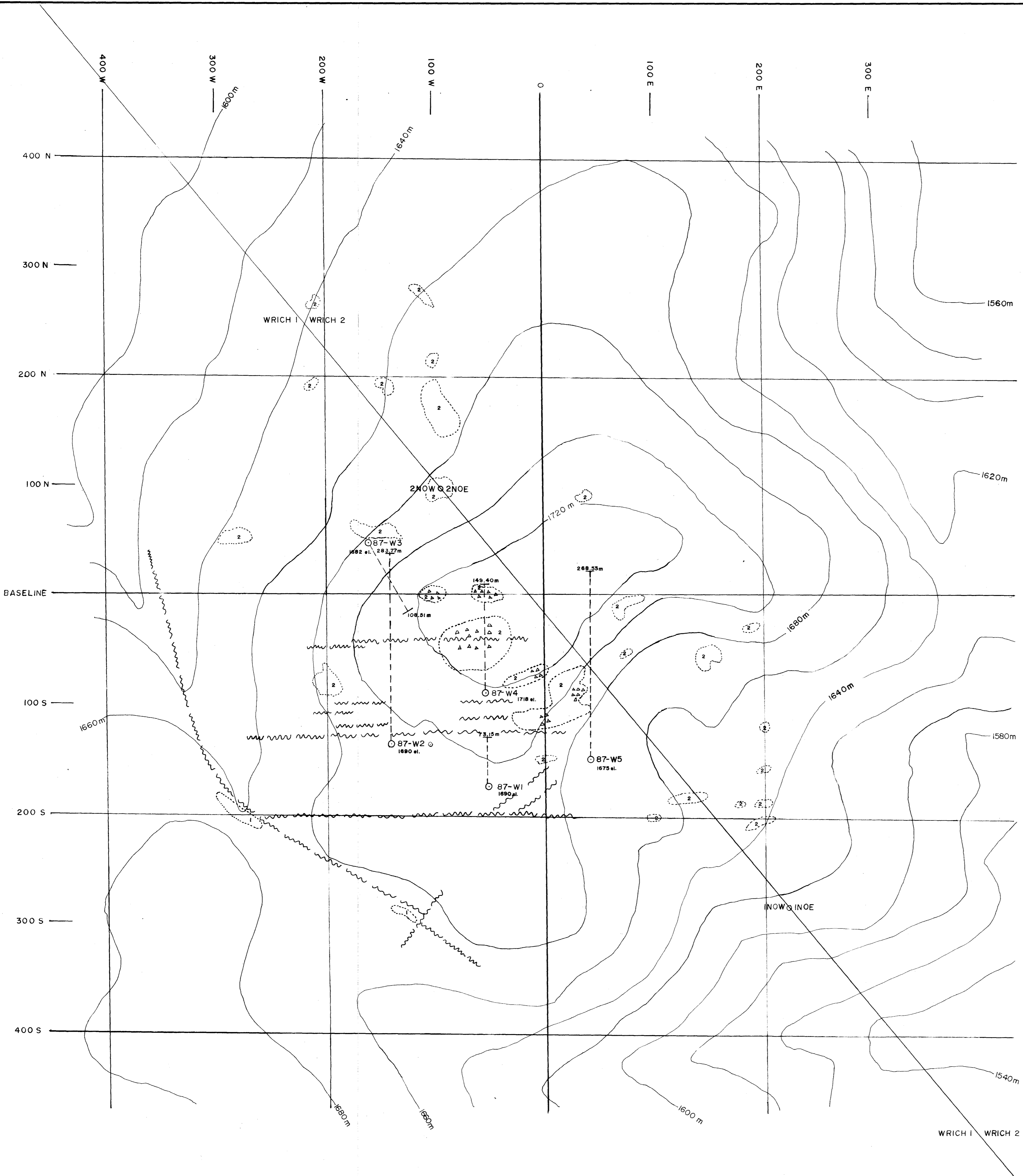
DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS		
					Au Oz/ton	Ag Oz/ton	
1007							
202.10			202				
1009							
204.83			204				
1006							
207.87			206				
1006							
208.42		208.42-208.60 SHEAR ZONE	208				
210.92		208.60-211.8 SMALL BANDS OF QTZ STAINCED @ 25° TO CORE AXIS	210				
1006							
213.96			212				
1009							
215.0		215.0-219.46 MORE SILICEOUS AMPHIBOLE TUFF WITH LESS FELDSPAR (Down to 152)	214				
217.02			216				
218.24							
1002			218				
119.96							
			220				

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
100 <sup>7</sup>   222.80		222.30 - 222.50 CRUSHED AND MUD ZONE (FAULT)	222					
100 <sup>7</sup>   225.80		223.22 - 233.17 REDUCED & REWORKED Qtz. (MAGC ZONE 58-82 FES.	224	25567	<0.01	<0.1		
100 <sup>7</sup>   225.80		223.22 - 226.30 (CRUSHED) & RECENTLY		25568	<0.01	<0.1		
100 <sup>7</sup>   225.80		226.30 - 233.17 MORE SILICEOUS WITH LARG FELDSPARS	226	25569	<0.01	<0.1		
100 <sup>7</sup>   229.04		231.05 - 231.95 BLEACHED OUT		25570	<0.01	<0.1		
100 <sup>7</sup>   229.04			228	25571	<0.01	<0.1		
100 <sup>7</sup>   229.04				25572	<0.01	<0.1		
100 <sup>7</sup>   231.65			230	25573	<0.01	<0.1		
65 <sup>7</sup>   233.17				25574	<0.01	<0.1		
100 <sup>7</sup>   236.22		233.17 - 238.65 CRUSHED & SLEAVED HEMATITE ANDERITE WITH ONE BOULDER UP TO 0.95 M THICK	232	25575	<0.01	<0.1		
94 <sup>7</sup>   239.27			234	25576	0.01	<0.1		
			236					
			238					
		238.65 - 242.90 BRECCIA REWORKED WITH SOME HEMATITE STAINING.	238.65	25577	0.02	<0.1		

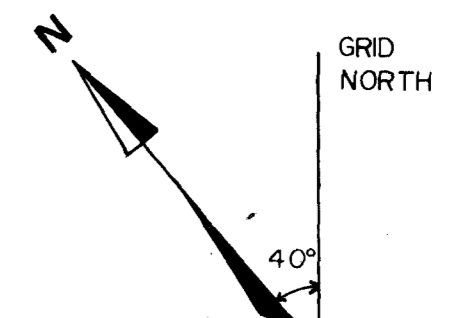




DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS			
					Au Oz/ton	Ag Oz/ton		
260.91		259.37-268.53 Chocolate Brown Tuff	261					
100			262					
263.91			263					
100			264					
265.48			265					
100			266					
268.53		268.53 E.O.H.	267					
			268					
			269					
			270					
			271					
			272					
			273					
			274					
			275					
			276					
			277					
			278					
			279					
			280					



- LEGEND**
- TOODOGGONE GROUP
  - 2 FRAGMENTAL CRYSTAL TUFF
  - TAKLA GROUP
  - 1 MAFIC VOLCANICS
  - ~~~~~ FAULT/SHEAR ZONE
  - - - - - OUTCROP
  - DIAMOND DRILL HOLE



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**16,470**

<b>CHENI GOLD MINES INC.</b>			
<b>TOODOGGONE PROJECT</b>			
<b>WRICH CLAIMS</b>			
<b>D. D. H. LOCATION PLAN</b>			
EXECUTED: CHENI	DATE: 1987	SCALE: 1/2000	
DATA: P.T., Q.C.E., KLI, RER	AUG 87	0 60 120 m	
INTERPRETED:		N.T.S:	REPORT No:
DRAFTED: RER, KLI	OCT 87	94E/2	MAP No: 3
REVISIONS:			