

DRILLING REPORT ON THE  
GAZA 1 AND JERICHO 1 AND 2 MINERAL CLAIMS  
(RECORD NUMBERS 159, 492 AND 161)  
HIGHLAND VALLEY, KAMLOOPS MINING DIVISION,  
LATITUDE 50° 26' N; LONGITUDE 120° 55' W; NTS 92-I/7W

OWNED BY

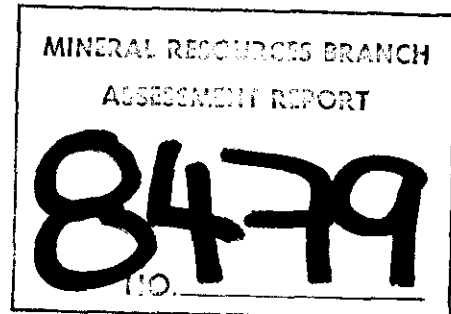
GAZA MINES LTD., NEW JERICHO DEVELOPMENT  
AND TECK CORPORATION

WORK PAID FOR BY

HIGHMONT OPERATING CORPORATION

L. H. C. TSANG

OCTOBER 8, 1980



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Appendix A: Rotary drill hole Logo.

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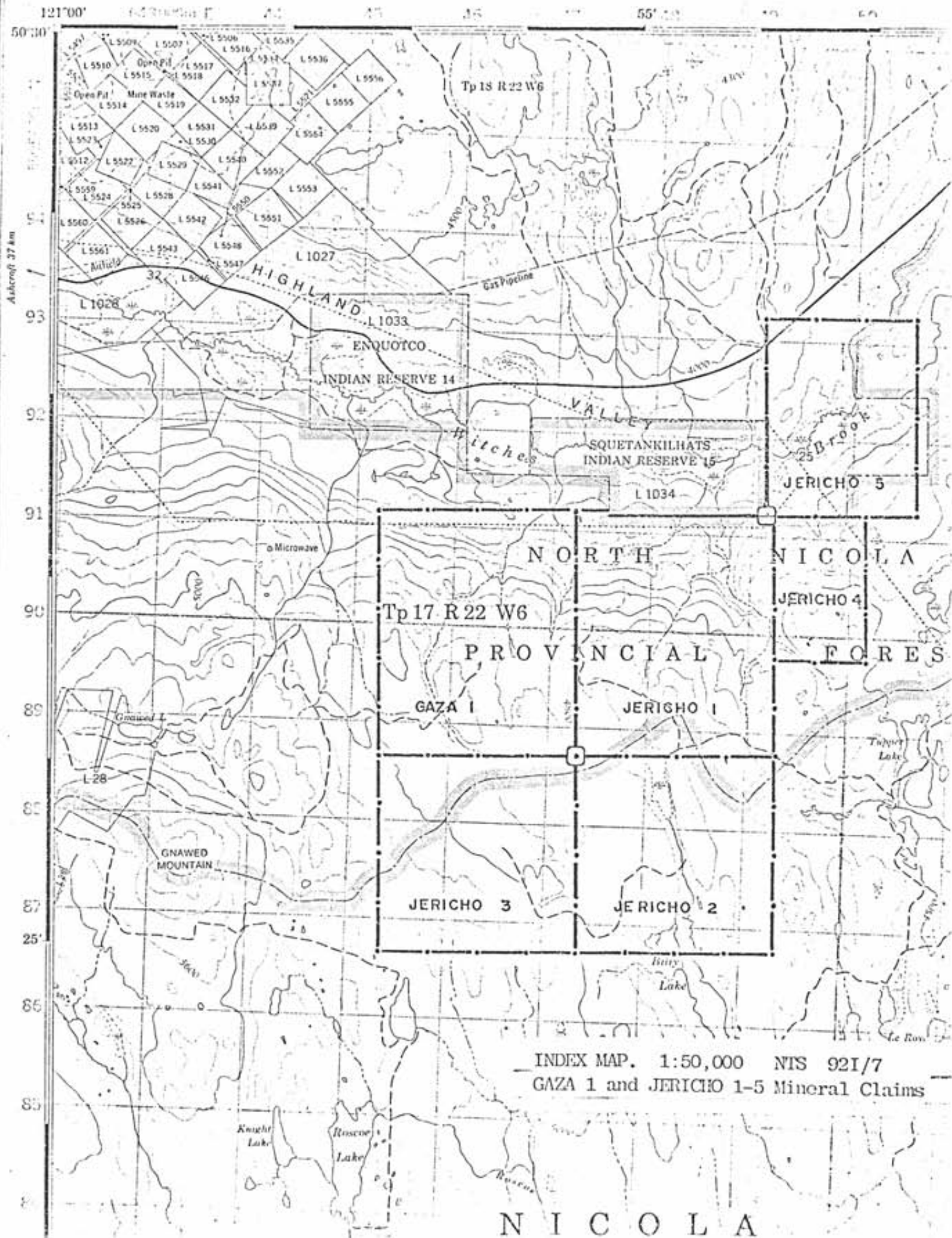
Index Map	- After Page 1
Figure 1: Rotary drill holes on Gaza 1 and Jericho 1 & 2 mineral claims	- In Pocket

### Introduction

The Gaza and Jericho mineral claims are located in the eastern part of the Highland Valley at elevations from 1150 to 1585 metres above sea level. Access to the claim is by the Ashcroft to Logan Lake paved highway which crosses the northwest corner of the Jericho 5 mineral claim approximately 7 km west of Logan Lake (see index map). The Gaza 1 mineral claim was located by A. J. Reed, agent for Gaza Mines Ltd. on December 12th, 1975. The Jericho 1 mineral claim was located by A. J. Reed, agent for New Jericho Development Corporation on September 8th, 1976. The Jericho 2 mineral claim was located by A. J. Reed, agent for New Jericho Development Corporation on December 12th, 1975. A small bornite-chalcopyrite orebody on the Jericho 1 mineral claim has been explored by percussion drilling, diamond drilling and by two adits indicating reserves of approximately 75,000 tonnes at an average grade of 1.17% copper.

During the period August 6th, 1980 to August 16th, 1980, Highmont paid for the following exploration and development to be done.

- 1) 13.7 metres of 6" diameter rotary drilling on Gaza 1 claim.
- 2) 25.9 metres of 6" diameter rotary drilling on Jericho 1 claim.
- 3) 16.8 metres of 6" diameter rotary drilling on Jericho 2 claim.



INDEX MAP. 1:50,000 NIS 921/7  
GAZA 1 and JERICHO 1-5 Mineral Claims

Rotary Drilling

56.4 metres of 6" diameter vertical holes were drilled on the Gaza 1 and Jericho 1 and 2 mineral claims to test the character of the bedrock adjacent to the tailings pond area. No significant mineralization was encountered with this program. These holes will be used as monitoring holes of the seepage from the tailings pond.

Statement of Costs

1. WAGES FOR HIGHMONT EMPLOYEES.
  - (a) Tsang, Louis H. C.  
#210 - 1680, Tranquille Road  
Kamloops, B. C. V2B 3L4  
  
Chief Geologist: \$110.00/day (August 6 - 16)  
2 days - total cost \$220.00
  - (b) Porter, Merlin  
Post Office Box 144  
Savona, B. C. VOK 2J0  
  
Drilling Supervisor: \$92.00/day (August 6 - 16)  
6 days - total cost \$552.00
2. FOOD AND ACCOMMODATION FOR DRILLER & HELPER OF A & H CONSTRUCTION LTD.
  - (a) Ian McDonald  
3 days @ \$14./day - total cost \$ 42.00
  - (b) Mike McDonald  
3 days @ \$14./day - total cost \$ 42.00
3. TRANSPORTATION.
 

Geologist's truck used: \$12.00/day  
1 day - total cost \$ 12.00

Drilling Supervisor's truck used: \$12.00/day  
8 days - total cost \$ 96.00
4. SURVEYING COST FOR DRILL HOLES.
  - (a) Nickerson, Gordon  
Box 622  
Logan Lake, B.C . VOK 1W0  
  
Chief Surveyor: \$12.00/hour  
1 hour - total cost \$ 12.00

(b) Kirkpatrick, Greg  
 2911 Bank Road  
 Kamloops, B. C. V2B 6Y6

Surveyor: \$11.00/hour  
 6 hours - total cost \$ 66.00

(c) Wager, Al  
 General Delivery  
 Logan Lake, B.C. VOK 1W0

Surveyor's helper: \$10.00/hour  
 6 hours - total cost \$ 60.00

5. ANALYSIS COST.

Highmont Laboratory: 21 samples @ \$10./sample

Total Cost \$ 210.00

6. DRILL SITE PREPARATION.

By the Cat unit of Pooley Construction (Merritt, B. C.)  
 (July 28 - August 11, 1980)

3 days - total cost \$3,352.50

7. AIR ROTARY DRILLING CONTRACT COSTS.

A & H Drillers Ltd.  
 1681 Salton Road, P.O. Box 38  
 Abbotsford, B. C.

56.4 metres of drilling - total cost \$6,827.25

8. PREPARATION OF REPORT.

Total Cost \$ 500.00

TOTAL \$11,991.75

APPORTIONMENT OF COST

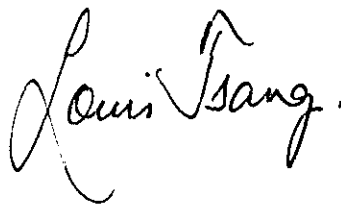
1. TO GAZA 1.	
(a) 13.7/56.4 of rotary drilling (item 7)	\$1,658.39
(b) 13.7/56.4 of rotary drilling direct costs (item 1, 2, 3, 5)	\$ 285.17
(c) 1/3 of surveying and site preparation costs (item 4 & 6)	\$1,163.50
(d) 1/3 cost of report preparation (item 8)	\$ 166.00
	<u>\$3,273.06</u>
2. TO JERICHO 1.	
(a) 25.9/56.4 of rotary drilling (item 7)	\$3,135.21
(b) 25.9/56.4 of rotary drilling direct costs (item 1, 2, 3, 5)	\$ 539.13
(c) 1/3 of surveying and site preparation costs (item 4 & 6)	\$1,163.50
(d) 1/3 cost of report preparation (item 8)	\$ 167.00
	<u>\$5,004.84</u>
3. TO JERICHO 2.	
(a) 16.8/56.4 of rotary drilling (item 7)	\$2,033.65
(b) 16.8/56.4 of rotary drilling direct costs (item 1, 2, 3, 5)	\$ 349.70
(c) 1/3 of surveying and site preparation costs (item 4 & 6)	\$1,163.50
(d) 1/3 cost of report preparation (item 8)	\$ 167.00
	<u>\$3,713.85</u>



Author's Certificate

I, Louis Tsang, of the City of Kamloops, British Columbia, do hereby certify that:

1. I am a member of the Geological Association of Canada.
2. I am a graduate of the University of British Columbia with a B. Sc. degree (1972) in geology and geophysics.
3. I have practiced my profession since 1972 while employed by Bacon & Crowhurst Consulting Engineering Ltd. (one summer season), and by Zapata-Granby Corporation, Granisle Division (seven years).
4. Present, I am employed by Highmont Operating Corporation Ltd., Post Office Box 300, Logan Lake, B. C.
5. I have examined and logged all the cuttings from rotary drill holes S1 to S3 at the Highmont mine site.

A handwritten signature in cursive script that reads "Louis Tsang." The signature is written in black ink and is positioned above the typed name and title.

Louis H. C. Tsang  
Chief Geologist of  
Highmont Operating Corporation

APPENDIX A: ROTARY DRILL HOLE LOGS

DRILLING RECORD

Hole No.	Sample No.	*Hole Depth	*Collar Elevation	*Remarks
R. D. H. - S1	1	12.2 - 13.7	1434.69	0/B 0 - 12.2
	2	13.7 - 15.2		
	3	15.2 - 16.8		
	4	16.8 - 18.3		
	5	18.3 - 19.8		
	6	19.8 - 21.3		
	7	21.3 - 22.9		
	8	22.9 - 24.4		
	9	24.4 - 25.9		
R. D. H. - S2	1	3.4 - 7.6	1452.37	0/B 0 - 3.4
	2	7.6 - 9.1		
	3	9.1 - 10.7		
	4	10.7 - 12.2		
	5	12.2 - 13.7		
R. D. H. - S3	1	7.6 - 9.1	1454.81	0/B 0 - 7.6
	2	9.1 - 10.7		
	3	10.7 - 12.2		
	4	12.2 - 13.7		
	5	13.7 - 15.2		
	6	15.2 - 16.8		

\* Units in metres

LEGEND & CODING USED FOR LOGGING CUTTING

Legend

S= <5%	✓ mineral present	L lightly altered
A= 5-10%	* mineral significant	M medium alteration
H= >10%	** mineral very significant	I intensely altered

CODING

CODING

ROCKS: Plutonic: mafic ind.-0, H-1; M/h-2; (h-3); H/h+4; H-5; gabbro-1; diorite-2; rhyolite-3; granodiorite-4; rhyolite-5; granite-6; syenite-7; syenodiorite-8.

<u>Other:</u>	Coal, plut-CP	phyllite-PP	tuff-TU
arcillite-AM	dacite-DA	pillow lava-PL	uncl ammatite-UN
arkose-AK	granulite-GA	quartzite-QU	uncl gneiss-UN
alkalite-AL	greenstone-GS	rhyolite-PP	uncl ss rock-UN
androsite-AN	greywacke-GW	sandstone-SS	uncl plut rock-UN
androsite-AN	hornfels-HF	Schist-SC	uncl sediment-UN
aplite-AP	limestone-LS	shale-SH	uncl ultrahss-UN
basalt-BA	marble-MA	skarn-SK	uncl volcanic-UN
chert-CH	pegmatite-PG	slate-SL	uncl migmatite-UN
conglomerate-CD			volc breccia-VB

<u>Minerals:</u>	chromite-CH	leucite-LU	rutile-RU
actinolite-AC	chrysothile-CH	limonite-LI	sanadine-SA
andalusite-AN	cordierite-CD	magnetite-MA	scheelite-SC
apatite-AP	diopside-DI	malachite-ML	serpentine-SL
arsenopyrite-AS	epidote-EP	muscovite-MU	sillimanite-SI
augite-AU	galena-GL	mica (MUSBI)-MI	enhalorite-SL
azurite-AZ	garnet-GA	molybdenite-MO	sphene-SP
barite-BA	glass (vol)-GS	olivine-OL	staurolite-ST
beryl-BE	glaucochane-GC	opal-OP	stibnite-SB
biotite-BI	graphite-GR	orthoclase-OP	talca-TA
bornite-BO	hematite-HE	plagioclase-PC	tourmaline-TO
calcite-CA	hornblende-HO	pyrite-PY	tremolite-TR
chalcedony-CD	hyperthene-HY	pyroxene-PX	tealite-TE
chalcopyrite-CC	limonite-LI	pyrrhotite-PR	zircon-ZI
Chalcopyrite-CP	kyanite-KY	quartz-QU	zoisite-ZO
chlorite-CL			

<u>Migmatites:</u>	<u>Dikes:</u>	<u>Folds:</u>
stockwork-ST	(rock code above +)	gentle (100°-120°)-G
banded gneiss-BG	syplutonic-SP	open (120°-70°)-O
irreg. b. gneiss-IG	feldspar porph-PP	close (70°-30°)-C
veined gneiss-VG	qtz-feld -OF	tight (30°-5°)-T
angular ammatite-AA	lanprophyre-LA	isoclinal (5°-0°)-I
rounded ammatite-RA	swarm, basalt-SB	drag (limbs unnp)-D
elongate ammatite-EA	swarm, andesite-SA	chevron ("equal")-V
Schlieren gneiss-SG	swarm, rhyolite-SR	zig-zag ("unnp")-Z
nebulite-NE	swarm, sypluton-SS	box fold -B
		'M' fold -M
		flowage (irrequil) -F

<u>Glaciation, joints:</u>	<u>Grain sizes:</u>	<u>Foliations:</u>	<u>Heterogen:</u>
glac. feat. uncl-G	Granitoid:	massive -G	homogen -H
joints, prominent-J	fine -F	faint -F	cl. het -S
drumlin-D	medium -M	moderate -M	mod het -M
erratic-E	coarse -C	good -G	very " -V
esker -K	pegmatitic-P	excellent-E	
lake deposit-L	Other:	shearing -S	
moraine-M	aphanitic -A	gneissic -N	
nunatak-N	very fine -V	<u>Faults:</u>	
outwash channel-C	fine -F	major-M	
rock glacier-R	medium -M	minor-X	
strian-S	coarse -C	shear-S	
till-T	very coarse-F		

<u>Veins:</u>	<u>Inclusions:</u>	<u>type:</u>
marble-M	shape:	bedded-B
pegmatite-P	mainly angular-A	foliated-F
quartzite-QU	mainly rounded-R	nebulous-N
epidote-E	mainly elongate-E	porphyroblastic-P
calcite-C		
qtz stringers-X	abundance:	
unclass vein-U	<1%-0; >1 <5-1; >5 <10-2; >10 <20-2;	
	>20-30-4; >30-50-2	

BOREHOLE CUTTING LOG

Hole	Sample No.	Essential Minerals				Secondary minerals								Intensity of A <sub>1</sub>	Rock Type	Mineralization						Assay		Remarks/Date			
		Feldspar KF PC	QU	Mafic BI HO		QU	KF	BI	MU	PY	CY	CL	EP			CS	CP	MO	BN	CC	PY	HE	Mo		Cu		
	1	Yellow talc	S	S	S				✓	✓	*			M													Date: August 12, 1960
	2	Yellow talc	A	A	S					✓	✓	✓		L													partly oxidized
	3	White	A	S		✓		✓	✓	*	*	✓		M			?										
	4	Yellow talc	S	S	S	✓		*	*	*	✓	✓		M			?										partly oxidized
S-1	5	White	S	A										L													
A224	6	White	A	A	S			✓		*	✓			L													
A224	7	White	A	S						✓	*	✓	✓	M													
	8	White	A	A						✓	✓			L													
	9	White	S	A	S					✓	✓			L													
	1		S	S	S					✓	*			M													Date August 12, 1960 oxidized rock
S-1	2	White	A	S	S	*				✓	*			M													
	3	White	A	A	S			✓		✓	✓			L													
A224	4	White	A	A	S	✓				✓	*			L-M													
	5	White	A	A	S			✓		✓	✓			L													
	1	White	A	H		?				✓				L			?										Date: August 22, 1960
	2	White	A	H						✓				L													
B	3	White	A	A						✓	✓			L													
S-1	4	White	A	S						✓	*			M													
A224	5	White	A	A						*	✓			L													
	6	White	A	S		?				*	*			M													

*Louis Tsang*

APPENDIX B: ROTARY DRILL HOLE ASSAYS

HIGHMONT OPERATING CORPORATION  
P.O. Box 3000  
LOGAN LAKE, B.C.  
VOK IWO  
Tel: (604) 575-2471  
Telex: 048-774

TO:

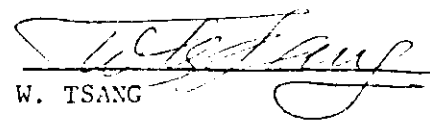
LOUIS TSANG

CERTIFICATE OF ANALYSIS

DATE: August 22, 1980

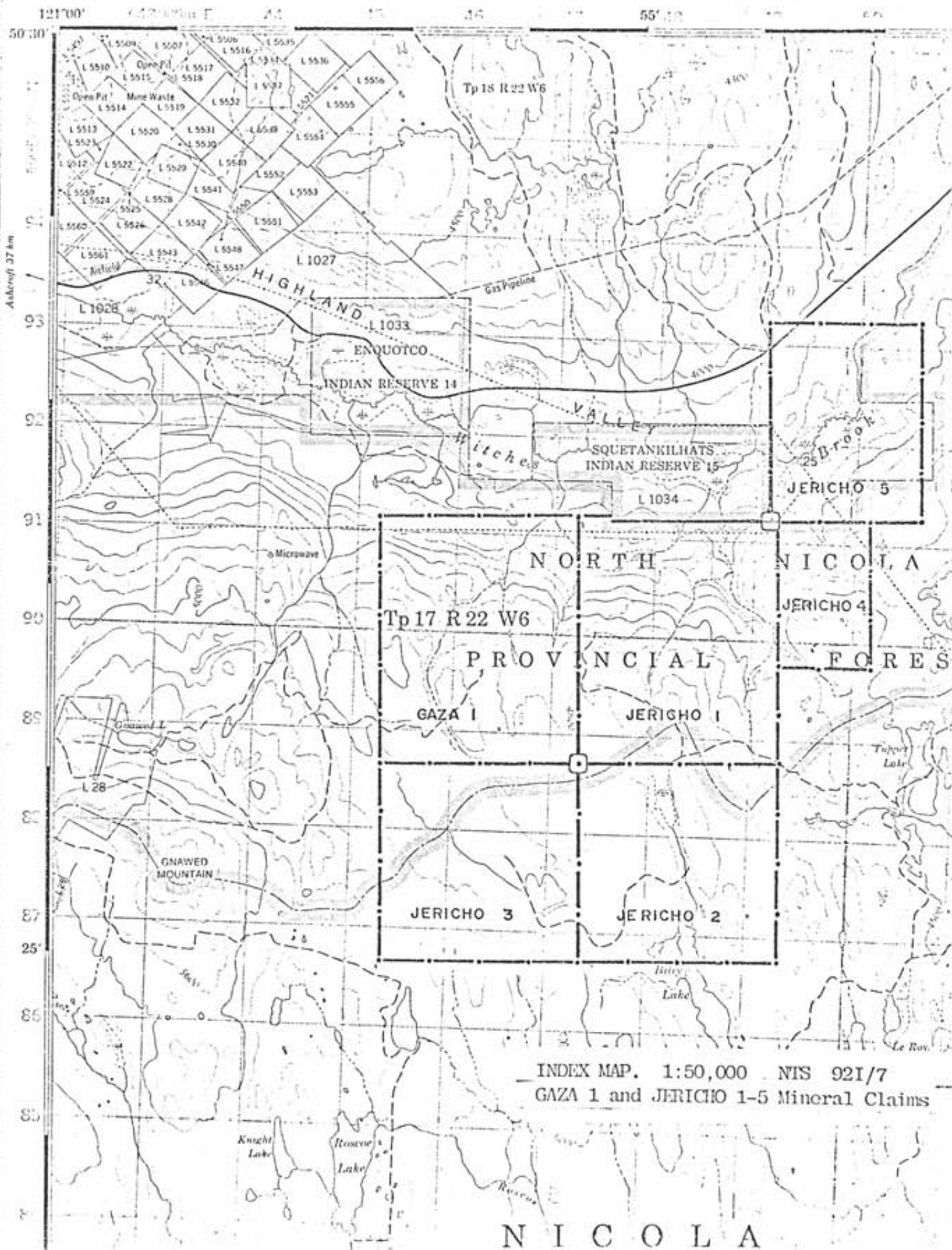
NO: 0001

MARK:	Sample No	%Mo	%Cu
RDH S-1	1	0.004	0.02
	2	0.003	0.01
	3	0.001	0.06
	4	0.001	0.04
	5	0.001	0.01
	6	TR.	0.01
	7	TR.	0.01
	8	TR.	0.01
	9	0.001	0.01
RDH S-2	1	0.002	TR.
	2	0.001	0.01
	3	0.001	TR.
	4	0.003	TR.
	5	0.001	TR.
RDH S-3	1	0.001	0.04
	2	0.002	0.02
	3	0.002	0.02
	4	0.002	0.02
	5	0.003	0.02
	6	0.002	0.02



W. TSANG

CHIEF CHEMIST



INDEX MAP, 1:50,000 NIS 921/7  
 GAZA 1 and JERICHIO 1-5 Mineral Claims

N I C O L A





PURCHASE ORDER		
NO. ORDERED TO VENDOR	NUMBER	DESCRIPTION

NEEDS FOR CONTROL		
ASSOCIATED DRAWINGS		

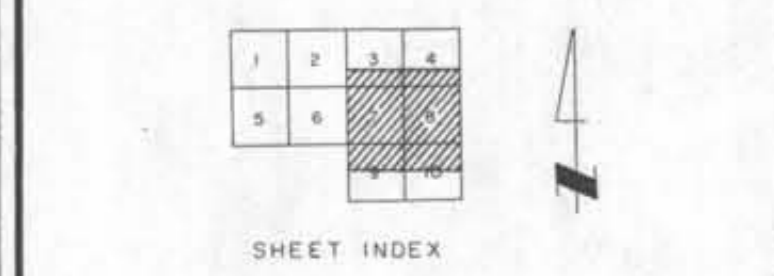
McELHANNY SURVEYING & ENGINEERING LTD.  
VANCOUVER BC.

Scale Bar 0 200 400  
Scale 1 inch to 400 feet  
Contour Interval 10 feet

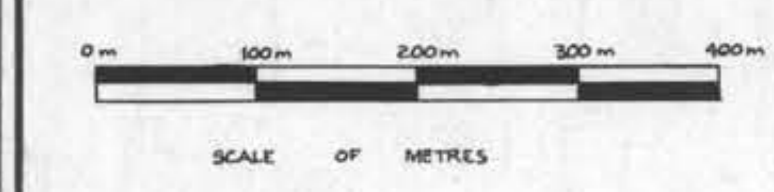
COMPILATION NOTE  
Topographic Mapping compiled from aerial photography flown on August 27, 1971 at the approximate scale of 1:12000

CONTROL NOTE  
Coordinate origin based on M.S.E.L. station Mc 1140 as 100,000 N, 100,000 E  
Bearings are astronomic from stellar observations referred to the meridian through Mc 1140  
Lat. 30°-30'-00", Long. 122°-03'-00"  
Elevations are on geoidic datum. See M.S.E.L. Drawing No. DB200-0 Rev.1

LEGEND	
Horiz. control	△ Spot elev.
Photo centre	⊙ Spot elev.
Secondary road	— Tree line
Trail	— Pile
Building	— Cut line
Shoreline	— Trench
Creek	— Swamp



KEY  
○ ROTARY DRILL HOLE



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8479**  
NO.

ISSUE NO.	DATE	ISSUE	DR.	CHK.	APP.
CERTIFIED FOR CONSTRUCTION					
TECK CORPORATION HIGHMONT PROJECT					
FIGURE 1: TO ACCOMPANY ASSESSMENT REPORT BY LOUIS H.C. TSANG 7 OCT 1980					
AREA GAZA 1, JERICO 1, 2, N.C.'s					
SUBJECT 1980 DRILL PROGRAM					
SCALE 1" = 400'		DRN.	CHK.	APP.	
TECK DRAWING NO. 519-0000-31		DRN. NO. RD-13	CHK.	APP.	