

87-73-15569
3/88

DIAMOND DRILL REPORT

ON THE

ZE GROUP

Cariboo Mining Division

93 B/9W

(Latitude 52° ~~35'~~ 37.4', Longitude 122° ~~47'~~ 18.1')

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

FILMED

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,569

Author: G. D. Bysouth

Submitted: February 25, 1987

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Drill Log: Hole 86-64

Drill Log: Hole 86-65

1 INTRODUCTION

The Ze Group lies about 6.5 km. north of the Gibraltar Mines plantsite at an elevation of 1100 to 1500 meters. The claims cover a series of low rocky hills separated by broad tracts of poorly drained ground. Access is via a network of logging and exploration roads which link up with the Gibraltar Mines tailings pond road just north of the pond. General location of the claims is shown in Figure 1.

The original claims of the Ze Group were first staked in 1977 to cover a large I.P. anomaly. Drilling in 1978, 1981, and 1985 revealed the anomaly was caused by a graphitic argillite unit which also contained abundant pyrite mineralization of possible syngenetic origin. Widespread gold anomalies developed in soils overlying the graphitic rocks, large zones of zinc enrichment associated with the syngenetic pyrite and pervasive quartz-ankerite veining developed in the argillite and adjacent rocks, provided the chief impetus for continued exploration. These drilling programs have been covered in four assessment reports.*

This report deals with a 1986 drill program aimed at testing a strong E.M. conductor. Three short vertical N.Q. diamond drill holes totalling 1048-feet (320-meters) were completed during the period August 30 to September 5 by J. T. Thomas Diamond Drilling Ltd. of Smithers, B.C. The core is stored at Gibraltar Mines Limited.

* Assessment Reports by G. D. Bysouth

1. Percussion Drilling Report, Ze Mineral Claims, July 1978
2. Diamond Drill Report, Ze Group, 1981
3. Diamond Drill Report, Ze Group, 1985
4. Diamond Drill Report, Ze Group, 1986

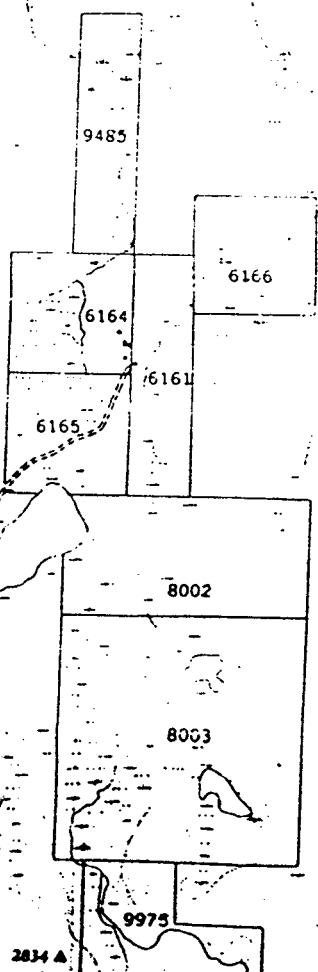
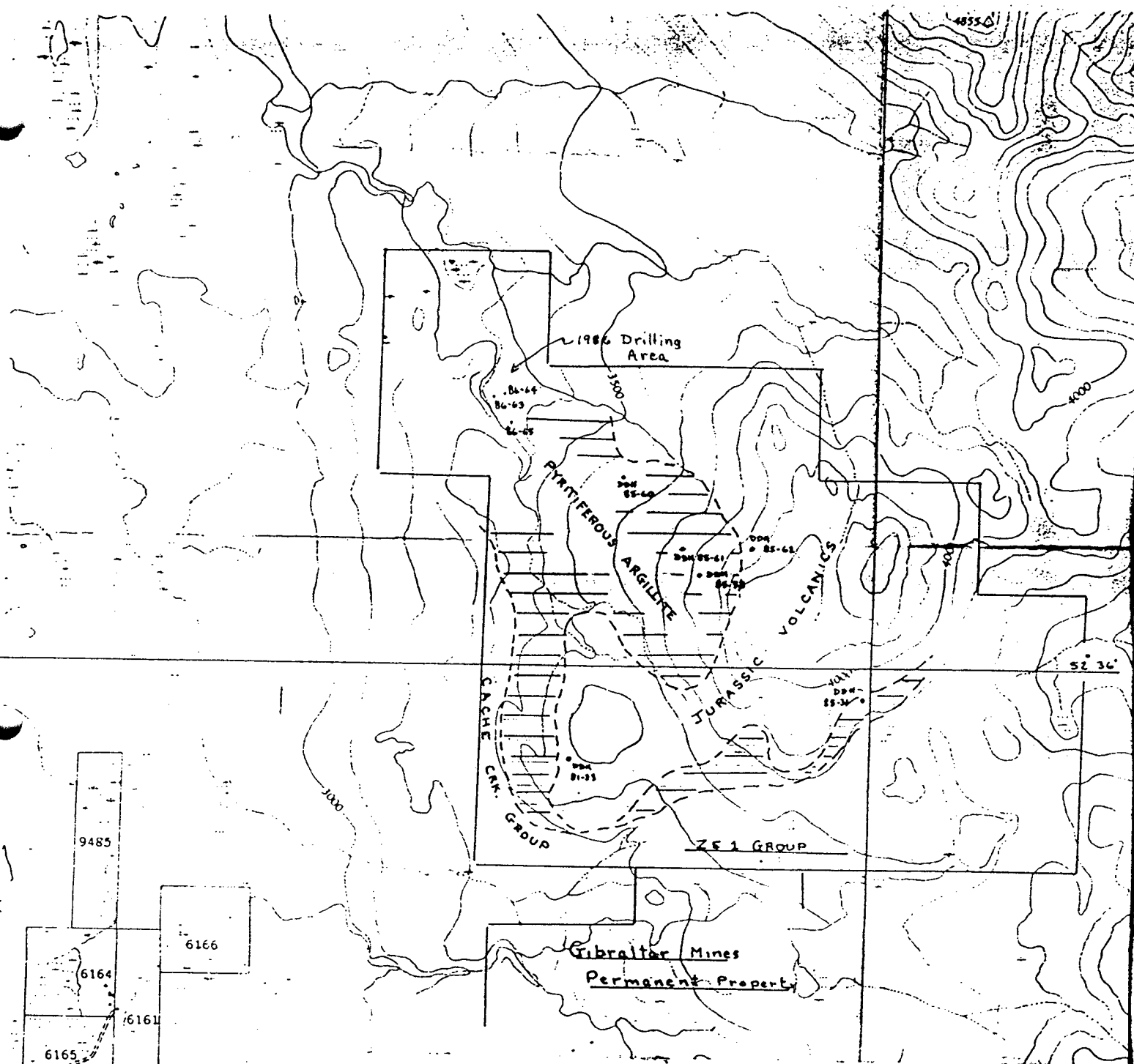
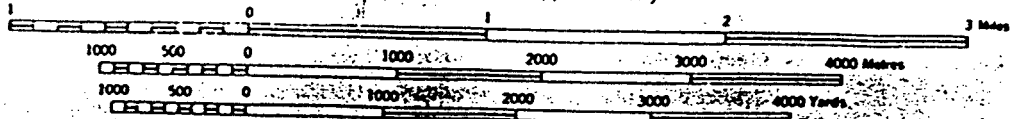


FIGURE 1
ZE 1 GROUP LOCATION MAP

93 B9

SCALE 1:50,000

1.25 inches to 1 mile approximately



CONTOUR INTERVAL 100 FEET
 Elevations in Feet above Mean Sea Level
 North American Datum 1927

2 MINERAL CLAIMS

The Ze 1 Group mineral claims are shown in Figure 2. Claim details are provided below:

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>NO. OF UNITS</u>	<u>ANNIVERSARY DATE</u>
Ze 1	458	15	July 22
Ze 2	6621	20	Nov. 01
Ze 3	3927	20	Aug. 17
Ze 4	6620	10	Nov. 01
Ze 5	07101	6	Aug. 16
Ze 6	07099	10	Aug. 16
Ze 7	07100	2	Aug. 16
Ze 8	07190	12	Oct. 25

3 DRILL PROGRAM

1 ft = 30.5 cm

3.1 Objectives

The purpose of this program was to explore a strong E.M. conductor located upstream from a large copper-zinc drainage anomaly. The geochemical anomaly was of particular interest because it appeared to be down stream from a pyritiferous zinc-bearing argillite. It was hoped the anomaly was a reflection of a copper-rich phase of the argillite sequence. Hole locations are shown in Figure 2.

3.2 Results

Drill hole 86-63 was cased to 171-feet. From 171-feet to the bottom of the hole at 305-feet, a medium grained quartz diorite was intersected which, in both composition and general appearance, resembled the quartz diorite host rock of the Gibraltar ore bodies. The rock was totally barren. The only structure of interest was an eight-foot quartz-ankerite zone which contained about one percent specularite. The core was not assayed.

Drill hole 86-64 was cased to 147-feet. From 147- to 184-feet, a limonite stained fault zone was intersected. Rock fragments within the fault appeared to have been acid leached; this plus the abundant limonite suggested the presence of oxidized sulphides. From 148-feet to the bottom of the hole at 439-feet, a quartz diorite identical to that of 86-63 was encountered. This hole was also barren but did contain several leucocratic zones, which in the mine area, are indications of mineralized systems. The zones have gradational boundaries and consist essentially of quartz, ankerite, white feldspar and about one percent specularite. They appear to be alteration zones rather than intrusive dykes. The core was not assayed.

Drill hole 86-65 was cased to 60 feet. From 60-feet to 111-feet, a quartz diorite was intersected which was similar to that of holes 86-63 and 86-64. This hole however, appeared silicified, and at about 80- to 96-feet showed a gradual transformation to a molybdenite-bearing leucocratic zone. A well-defined leucocratic zone was encountered from 111- to 209-feet which also contained significant molybdenite mineralization, associated with quartz veining. From 209-feet to the end of the hole at 304-feet a silicified quartz diorite was again intersected which also showed several gradations to leucocratic zones. The leucocratic zones in all cases appeared to consist essentially of quartz, white feldspar and ankerite. The core was assayed down to 160-feet which gave 100-feet of 0.051% molybdenite but only negligible copper.

3.3 Interpretation

The results obtained in this program were totally unexpected. The E.M. anomaly and the copper-zinc drainage anomaly were originally interpreted as being caused by the sulfide-bearing black argillite unit. The relationship between the argillite and quartz diorite is at this point unknown. The argillite is interpreted to be the basal member of a Jurassic(?) sequence of sedimentary and volcanic rocks, and is also interpreted to stratigraphically overlie metavolcanic rocks of the Cache Creek Group. The quartz diorite appears correlative with the Gibraltar host rock, and may therefore be of Upper Triassic age. If this is so, these quartz diorites may also be overlain by the argillite. The lack of any hornfelsic alteration in nearby argillite exposures adds some support to this idea.

The quartz diorite has obviously undergone some sort of silica-carbonate alteration which was also responsible for the molybdenite and specularite mineralization. Trenches several hundred feet south of hole 86-65 have shown similar alteration patterns but with abundant pyrite and chalcopyrite rather than molybdenite. A significant mineralized system has therefore, been indicated but the amount of sulfide seen does not account for the E.M. anomaly. The fault zone intersected in hole 86-64 may have acted as a conductor, but since it was intersected in only one hole, this is not a satisfactory explanation.

4 STATEMENT OF EXPENDITURES

(1) Drilling Costs

Direct Footage Charges

Hole 86-63	305'	@ \$13.50/foot	=	\$ 4,041.25
Hole 86-64	433'	@ \$13.50/foot	=	\$ 5,737.25
Hole 86-65	<u>498'</u>	@ \$13.50/foot	=	<u>\$ 4,028.00</u>
	1,042'			\$13,806.50

Man and Machine Hours

33 man hours @ \$21.00/hr.	=	\$ 693.00
11 machine hours @ \$40.00/hr.	=	\$ 440.00
Water Truck	=	<u>\$ 4,500.00</u>
		\$ 5,633.00

Lost Equipment	=	<u>\$ 1,570.00</u>
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Total Drilling		\$21,009.50
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(2) Supplies

Core boxes: 50 boxes @ \$6.00/box	\$	300.00
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(3) Vehicle Costs

Rental 4x4, 1986 pick-up		
4 days @ \$35.40/day	\$	141.60

(4) Assay Costs

10 Cu-MoS2 assays at \$4.40/assay	\$	44.00
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(5) Personnel Costs

Core Logging and Supervision

G. D. Bysouth

Dec 4	8 hrs.	
Dec 11	8 hrs.	
Feb 10	<u>8 hrs.</u>	
	24 hrs. @ \$31.00/hr.	= \$ 744.00

Field Work and Core Preparation

B. Locke

Sep 2	8 hrs.	
Sep 4	<u>4 hrs.</u>	
	12 hrs. @ \$14.29/hr.	= <u>\$ 171.48</u>

Total Personnel Costs	\$	<u>915.48</u>
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TOTAL EXPENDITURE

\$22,410.58

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5 CONCLUSIONS

This drill program has not adequately explained the E.M. conductor, but it has raised the possibility of there being a porphyry-type mineralized system within the Ze Group. This possibility must be investigated further.

G. D. Bysouth

G. D. Bysouth
Senior Geologist
Gibraltar Mines Limited

APPENDIX I. Statement of Qualifications

I, Garry D. Bysouth, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

1. I am a geologist.
2. I am a graduate of the University of British Columbia, with a B.Sc. degree in Geology in 1966.
3. From 1966 to the present I have been engaged in mining and exploration geology in British Columbia.
4. I personally logged the core and assessed the results of this drill program.

Garry D. Bysouth

Garry D. Bysouth

APPENDIX II. List of Abbreviations

alt'd.....	altered
cal.....	calcite
carb.....	carbonate
chl.....	chlorite
cp.....	chalcopyrite
cren.....	crenulated
dissem.....	disseminated
foln.....	foliation
grn.....	grained
h.....	hardness
py.....	pyrite
qtz.....	quartz
rx.....	rock
sphal.....	sphalerite
str.....	strong
stkwk.....	stockwork
wk.....	weak
x-cutting.....	cross-cutting

1 foot = 30.5 cm

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-63
SHEET No. 1 of 3

LOCATION <u>Zc GROUP</u>	BEARING _____	LATITUDE _____	CORE SIZE <u>N.O.W.</u>	LOGGED BY <u>G.D.B.</u>
DATE COLLARED <u>30-Aug-86</u>	LENGTH <u>305'</u>	DEPARTURE _____	SCALE OF LOG <u>1"=10'</u>	DATE <u>Dec. 11 1986</u>
DATE COMPLETED <u>31-Aug-86</u>	DIP <u>-90°</u>	ELEVATION _____	REMARKS _____	

ROCK TYPES & ALTERATION			GRAPHIC LOG		Valve ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			Estimated Grade
			∠ to Core Foliation	Alteration Footings						LEACH CAP	LIM. ZONE			SUPERGENE	Footage Block.	Sample Number	
Casing To 171'																	
QUARTZ DIORITE (171' - 305') - poss. Mine Phase - grn size ranges 1/20 - 1/8, avg 1/10"			ND	180					0		173	95					01
~ 15% ragged chl ~ 30% qtz - tends to be interstitial to spinel and not relict minerals.			ND	180	15	1/3	gg-hem		0		177						01
~ 50% sauss blag. - often as subhedral prisms.			ND	180	5 x 3	nlcrs	nlcrs		0		187						01
			ND	200	40°	2 1/2	teucocratic zone with nlcrs and carb. spec. qtz-carb.		0		197						01
			ND	200	3	1/4			0		80						01
			ND	210	25°	12"	gg-hem + chl		0		203						01
				210							207	95					01

GRID _____

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HOLE No. 86-43
SHEET No. 2 of 3

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG	Vein L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE			Sample Number	% Cu	% Mo	Estimated Grade
		Nb	220	45°	8"		0			217	95					.01
		Nb	230	10°	1/2"	qtz-ank (spec.) zone (appears to be a leucocratic zone well-mineralised with dk. brown carb. qtz and disse. metallic hem.)	0			221	95					.01
		Nb	240	60°	3"	hem	0			236 237	98					.01
		Nb	250	50°	1/10"	chl	0			247	100					.01
		Nb	260				0			257	100					.01
			270	50°	1/20"	carb-hem				267	98					

GRID _____

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HOLE No. 86-64
SHEET No. 2 of 6

ROCK TYPES & ALTERATION		L to Core Foliation Alteration Fracture Stratigraphy	GRAPHIC LOG	Values L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM ZONE			SUPERGENE	REMARKS	Sample Number	% Cu
	<p>this rx resembles Mine Phase ~ 15% chl, usually as ragged clks. ~ 30% qtz - generally interstitial to other grns but in some sections forms large (1/4") clots. ~ 50% saus. plag as subhedral prisms - avg grn size is about 1/16" (range 1/20-1/8")</p>	ND	200	40 x 2 50 35	1/4 x 2 1/3 1"	lim-spec x2 qtz-lim-vug carb-spec		0		194						.01
	<p>~ 50% saus. plag as subhedral prisms - avg grn size is about 1/16" (range 1/20-1/8")</p>	ND	210	45 ?	5" 3" 2"	qtz-ank* ank-spec ank-spec		0	deep brown weathering carb.	204						.01
	<p>- rx is mineralized with two types of hem - a red powdery hem - a metallic hem which is often spec. - in this log the powdery var.</p>	ND	220	20	1/8	gg-hem		0		214						.01
	<p>will be referred to as hem. and the metallic var. as spec.</p>		230	5 x 4 60	1/20 x 4 1/10	hem-carb x 4 carb-spec		0		224						.01
	<p>LEUCOCRATIC ZONE (234-251)</p>		240	70 60 x 2	1/4 1/10 x 2	qtz-carb qtz-carb x 2		0		234						.01
	<p>This appears to be an alteration in which plag and chl have been totally replaced or partially replaced by qtz & carb (light brown) also present is dissemi. metallic hem (2.5-1 1/2) - There are various</p>		250	40	1/2	carb-spec		0		244						.01

GRID _____

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HOLE No. 84-64
SHEET No. 3 of 6

ROCK TYPES & ALTERATION	L to Core Foliation Alteration Feetage	GRAPHIC LOG TEXTURE	Veins L to Core Alt	WIDTH OF VEIN	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feetage Direct	Estimated Core Recovery %	R O D	ASSAY RESULTS								
								LEACH CAP	LIM. ZONE				SUPPERGENE	REMARKS	Sample Number	% Cu	% Mo	Estimated Grade			
Stages of alt - the end product is a pale grey rx consisting of white plag and grey qtz (~so:so) which is often laced by qtz-carb. veinlets	0	260	45	1/2	gg-chl	}	hem stained core	0		251	90										
								10													
								20													
								30													
								40													
								50													
								60													
								70													
								80													
								90													
QUARTZ DIORITE (251-287) as above	0	260	45x2	1/10x2	hem-carbaz		0	0		257	95										
								10													
								20													
								30													
								40													
								50													
								60													
								70													
								80													
								90													
	0	270	5	1/10	qtz		0	0		264	100										
								10													
								20													
								30													
								40													
								50													
								60													
								70													
								80													
								90													
	0	280	10	3"	gg-bx-hem	}	0	hem stained core	0		267	98									
									10												
									20												
									30												
									40												
									50												
									60												
									70												
									80												
									90												
	0	280	70	6"	ep-qtz zone		0		0		276	95									
									10												
									20												
									30												
									40												
									50												
									60												
									70												
									80												
									90												
	0	280	60	2"	ep-qtz		0		0		286										
									10												
									20												
									30												
									40												
									50												
									60												
									70												
									80												
									90												
	0	290	5x3	1/20x1/2x1/10	carb-hem-spec. rx		0		0		295	98									
									10												
									20												
									30												
									40												
									50												
									60												
									70												
									80												
									90												
LEUCOCRATIC ZONE (297-338') (same as 251-251') ~ 1.0% dissim hem.	15-25 Green SPR.	300	20	1/8	qtz(vug)		0		0		305	100									
									10												
									20												
									30												
									40												
									50												
									60												
									70												
									80												
									90												
	15-25 Green SPR.	310	15-25	5'	qtz-carb (ser) zone		0		0		305										
									10												
									20												
									30												
									40												
									50												
									60												
									70												
									80												
									90												

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-64
SHEET No. 4 of 6

ROCK TYPES & ALTERATION		L to Core Foliation Alteration Fracture Stress	GRAPHIC LOG	Veins L to Core All	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE			SUPERGENE	REMARKS	Sample Number	% Cu
	the carb spec veins consist of a fine spec dust in a carb. (or qtz-carb) matrix - without magnification the veins appear as a dk grey to bluish grey zone	15-ND	320	15-20	3'	qtz-carb-ser	0				98					.01
				20	2"	carb-spec	0		315.6							
		ND	330	5-20x2	1/4 x 1	carb-spec	0			98						.01
				45x2	6" x 2	carb-spec x2	0			326						
		60 WK- 110d	340	20 x 40	1/2 x 2	carb-spec	0			100						.01
	QUARTZ DIORITE (338-439) same as 251-297'	ND		20	2"	qtz-ep	0			336						
			350	30	1/4	qtz-carb	0			100						.01
		ND		15 x 2	1/20 x 2	carb-hem x2	0			346						
		ND	360				0			100						.01
		Nb					0			356						
			370				0			98						.01
							0			366						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. B6-64
SHEET No. 5 of 6

ROCK TYPES & ALTERATION			L to Core Foliation Alteration Footage SIZES	GRAPHIC LOG	Vain L to Core Alt	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			Estimated Grade
										LEACH CAP	LIM. ZONE			Feetage Direct	Sample Number	% Cu	
			ND	380	45	3'	qtz-carb-spec	0	0		98					.01	
			ND	390				0	0		95					.01	
			ND	400	20x2 10 60x50	1/20x2 1/10 1/4 = 1/20	carb-hem x2 carb-hem carb-hem x2	0	0		98					.01	
			ND	410	5-10x3 20-30 x3	1/20x3 1/20 x3	carb-hem x3 carb-hem x3	0	0		98					.01	
			ND	420	40x2	1/2 + 1	ep x2	0	0		100					.01	
			ND	430	30	6"	qtz(ep)	0	0		100					.01	

1 foot = 30.5 cm

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-65
SHEET No. 1 of 5

LOCATION Ze Group BEARINGS _____ LATITUDE _____ CORE SIZE N.Q.W LOGGED BY G.D.B.
 DATE COLLECTED 23-Sep-86 LENGTH 304' DEPARTURE _____ SCALE OF LOG 1"=10' DATE Dec 4, 1986
 DATE COMPLETED 24-Sep-86 DIP -90° ELEVATION _____ REMARKS _____

ROCK TYPES & ALTERATION	L to Core Foliation Alteration	GRAPHIC LOG Feet Meters	Veins L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feet Meters	Estimated Core Recovery %	R O D	ASSAY RESULTS					
								LEACH CAP	0				Sample Number	% Cu	% Mo	Estimated Grade		
<u>Casing To 60'</u>		60								60								
<u>MEDIUM GEN QUARTZ DIORITE</u> This is a hard compact rx - appears altered, possibly silicified in that the grain boundaries are indistinct - qtz cannot be distinguished from spgr without magnification. Chl. occurs as ragged clots with fuzzy boundaries - under mag. the chl. appears corroded and embayed by qtz, and in part replaced by some pale pink mineral, a pale mica (sericite?) and pyrite or chloropyrite. In places, the rx is obviously silicified and grade to various leucocratic zones. General comp. of least alt'd rx is:	ND	70	3x3 5 15x2	1/4x3 1/2 1/2x1/4	qtz, carb x 3 qtz (Mo) qtz (carb)*		<0.3	fine dissem py (sp) mainly along chl. hilc frac.		64 95		96562	.06	.026		.01		
Chl. occurs as ragged clots with fuzzy boundaries - under mag. the chl. appears corroded and embayed by qtz, and in part replaced by some pale pink mineral, a pale mica (sericite?) and pyrite or chloropyrite. In places, the rx is obviously silicified and grade to various leucocratic zones. General comp. of least alt'd rx is:	ND	80	20 30x3 6-10 10	1/4 1/4-1/2x3 1/2 1/2	qtz qtz-carb-chl. ((mag)) qtz qtz-chl-carb-py (sp)		<0.5			70 77	95		96563	.05	.002		.01	
Some pale pink mineral, a pale mica (sericite?) and pyrite or chloropyrite. In places, the rx is obviously silicified and grade to various leucocratic zones. General comp. of least alt'd rx is:	ND	90	20 30 80x10 15 60x2	1/2 1/2 1/2x1 2 1/2 1/2 1/2x2	qtz-gg. (Mo) (cp) qtz-carb (Mo) Mo x 2 high broken zone - some gg. qtz-chl-carb Mo x 2		<0.5			84 87 89	95 60		96564	.03	.004		.01	
30% chl. 60-70% combined qtz and spgr which form a hard pale green (caust) matrix for the chl. (60' - 111')	50 wk. Mod	100	15 30 30 80 90x10	1/2 1/2 3' 1/2 1/2x1	qtz-carb. qtz-Mo qtz-carb - be zone healed with Mo ((sp)) Mo Mo x 2		<0.5			96 97 100	90		96565	.02	.004		.08 (.10 Mo)	

leucocratic zone -
appears to be a
thin zone rather than
a dyke - chl. has been
almost totally lost and
remains only as small
relict spots - some
pale brown carb. has
been added along micro
fract - qtz-carb-alt?

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-65
SHEET No. 2 of 5

ROCK TYPES & ALTERATION	L to Core Foliation	GRAPHIC LOG	Veins L to Core Alt.	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Foliation Dip	Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE				Sample Number	% Cu	% Mo	Estimated Grade
	ND	110	20 10 4 70	3' 1/4 1/8 4'	qts-carb zone chl-carb qts-carb-chl qts-py highly broken zone.	0 10 20 30 40 50 60 70 80 90	<0.5			107	98	96566	.01	.004	.01	
<u>LEUCOCRATIC ZONE (111-209)</u> - a pale hard rx composed of qtz and white spar + ~10-15% brown weathering carb - assumed to be an alt'd Q.D. - relict chl patches as evident (brownish ragged clots) cut by numerous qtz & qtz-carb veins - prob. the chl. has been largely replaced by carb.	ND	120	30 80 30 70+80 70 30 10 40+2+80	1/2 1/16 1/8 1/4+1 1/16 2' 1/2+2+8	qtz Mo qtz-carb qtz Mo gg-ba qtz-carb (Mo) qtz	0 10 20 30 40 50 60 70 80 90	<0.5			113 117	85 80	96567	.01	.008	.01	
	ND	130	20 15+8 70+8 70 60 70	1/2 1/2+2" 1/4+1/8 6" 1/2 2"	qtz-ser. (MoXpy) - green ser.? qtz (Mo) + qtz qtz-Mo+2 qtz-Mo (shattered qtz healed qtz-Mo) (by Mo) qtz	0 10 20 30 40 50 60 70 80 90	<0.5			125 90	95	96568	<.01	.088	.01 (.10Mo?)	
3' zone of Q.D.	ND	140	40 70 60+50	2" 1/2" 1/4+1/8 6"	qtz-carb vug qtz-Mo-gg qtz (Mo) qtz (Mo)	0 10 20 30 40 50 60 70 80 90	<0.5			127	85	96569	<.01	.034	.01 .02 Mo	
	ND	150	66 70 60+2 50+6	1" 1" 1/2+2 3' 1/2+2	ep-chl-hen-py qtz-Mo qtz highly broken zone qtz	0 10 20 30 40 50 60 70 80 90	<0.5			143 147	90 85	96570	<.01	.024	.01	
3' zone of Q.D.	ND	160	60 45	6" 3' 1/2'	qtz (Mo) broken qtz-carb-gg (Mo) zone Mo qtz (Mo)	0 10 20 30 40 50 60 70 80 90	<0.5			153	90	96571	.01	.110	.01 .02 Mo	

GRID _____

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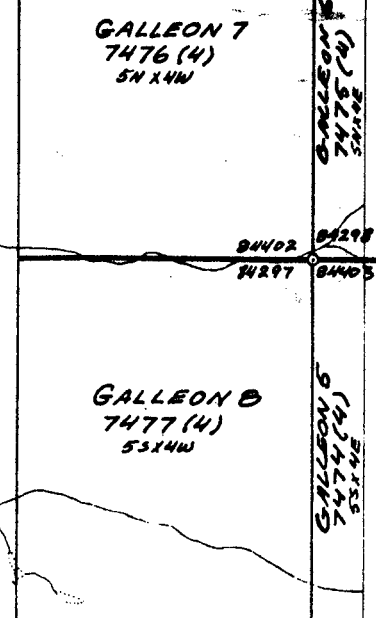
HOLE No. 86-65
SHEET No. 5 of 5

ROCK TYPES & ALTERATION		Z in Core Feilithes	GRAPHIC LOG				Vain Z in Core Alt	Width of Vain	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS																																																																																																																																																																		
			Leach Cap	LIM. ZONE	SUPERGENE	REMARKS						Feilithes Blacks	Sample Number			% Cu	% Mo	Estimated Grade																																																																																																																																																																
a partial leucocratic zone - that is, an incomplete silicification of Q.D.	ND	290	5+60A	60	1"	1/4 x 5	1"	qtz-carb x 5	qtz	0		287	95																																																																																																																																																																					
																				60	70	1/4	1"	qtz	0		236	90																																																																																																																																																						
																																								60	70	1/4	1"	qtz	0		304	90																																																																																																																																		
																																																												60	70	1/4	1"	qtz	0																																																																																																																	
																																																																																60	70	1/4	1"	qtz	0																																																																																													
																																																																																																				60	70	1/4	1"	qtz	0																																																																									
																																																																																																																								60	70	1/4	1"	qtz	0																																																					
																																																																																																																																												60	70	1/4	1"	qtz	0																																	
																																																																																																																																																																60	70	1/4	1"	qtz	0													

FDH 304

A. D. B.

50459	50461	50463	50465	50467	50469	50471	50473	50475	50477	50479	50481	50483	50485	50487	50489	50491
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
5C	18	50465	50467	50469	50471	50473	50475	50477	50479	50481	50483	50485	50487	50489	50491	50493
76	80	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
50455	50457	50459	50461	50463	50465	50467	50469	50471	50473	50475	50477	50479	50481	50483	50485	50487
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
5A	5B	5C	5D	5E	5F	5G	5H	5I	5J	5K	5L	5M	5N	5O	5P	5Q
37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
50461	50463	50465	50467	50469	50471	50473	50475	50477	50479	50481	50483	50485	50487	50489	50491	50493
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
5R	5S	5T	5U	5V	5W	5X	5Y	5Z	5AA	5AB	5AC	5AD	5AE	5AF	5AG	5AH
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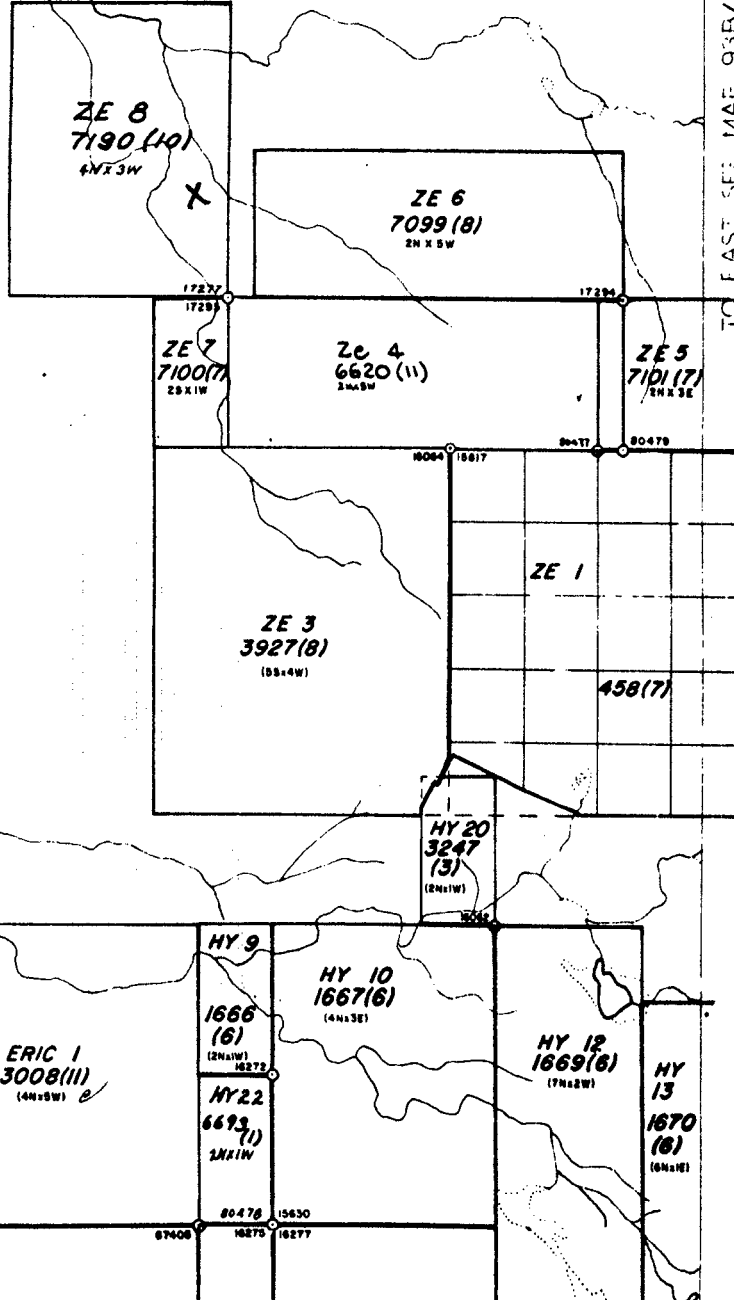


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4

N.T.S. 93B/9W

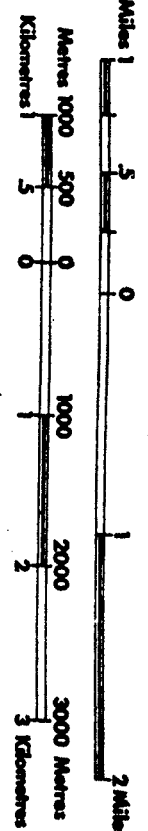
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VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
50527	50529	50531	50533	50535	50537	50539	50541	50543	50545	50547	50549	50551	50553	50555	50557	50559
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
50565	50567	50569	50571	50573	50575	50577	50579	50581	50583	50585	50587	50589	50591	50593	50595	50597
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
50601	50603	50605	50607	50609	50611	50613	50615	50617	50619	50621	50623	50625	50627	50629	50631	50633
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
50639	50641	50643	50645	50647	50649	50651	50653	50655	50657	50659	50661	50663	50665	50667	50669	50671
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
50677	50679	50681	50683	50685	50687	50689	50691	50693	50695	50697	50699	50701	50703	50705	50707	50709
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG
50715	50717	50719	50721	50723	50725	50727	50729	50731	50733	50735	50737	50739	50741	50743	50745	50747
VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG	VUG



TO EAST SEE MAP 93B/9E

- LEGEND**
- CROWN-GRANTED MINERAL CLAIM
 - REVERTED C.G. MINERAL CLAIM
 - FORGOTTEN MINERAL CLAIM
 - VERIFIED LEGAL CORNER POST
 - LEGAL SURVEY
 - LEGAL CORNER POST & TAG NUMBER OTHER

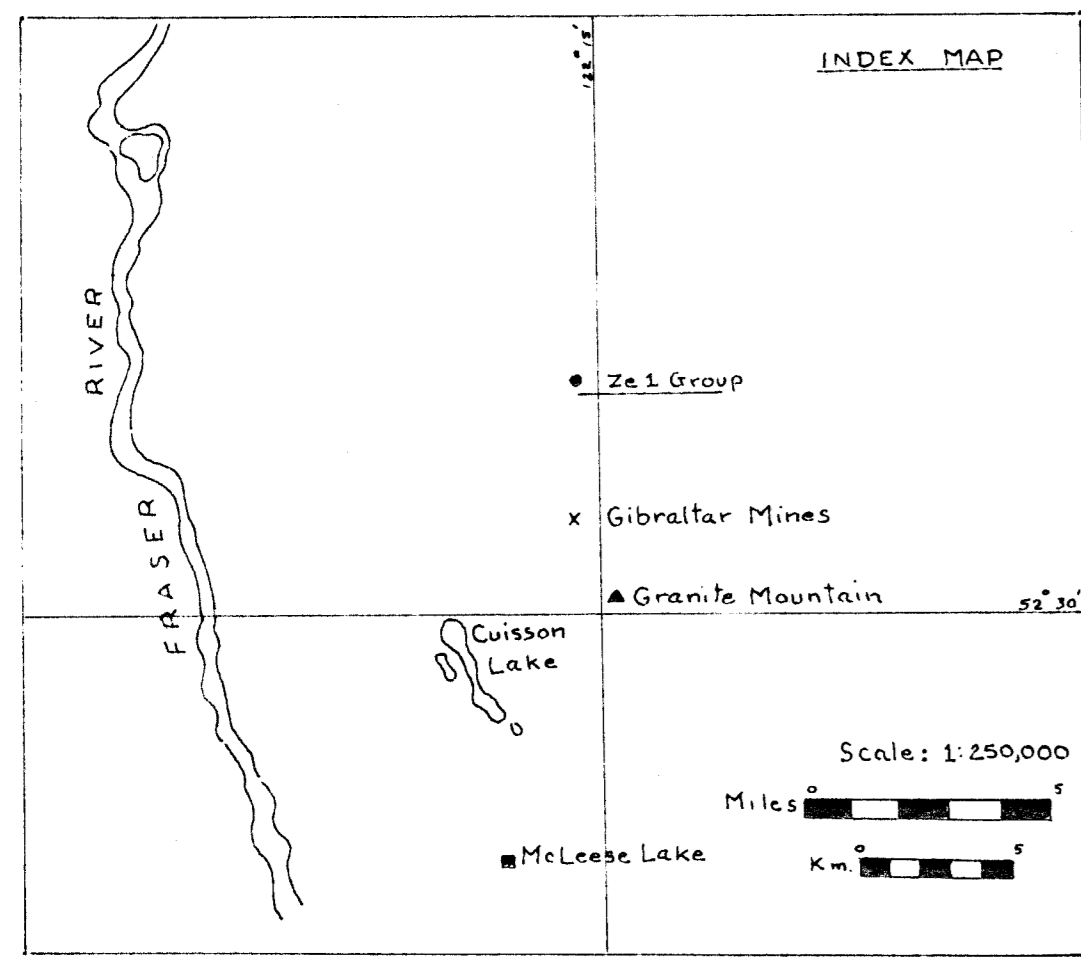
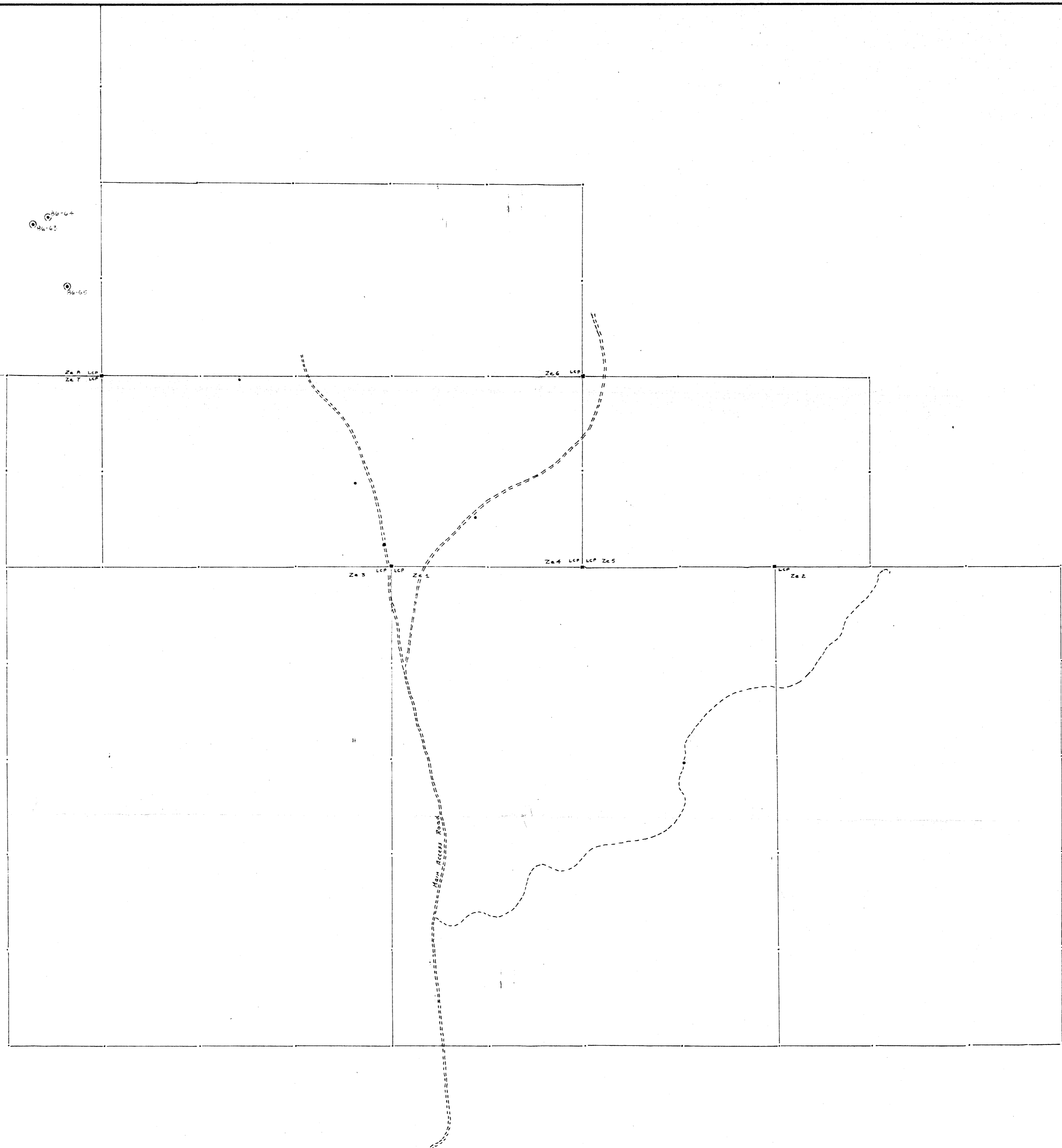


Produced in British Columbia
Ministry of Energy, Mines & Petroleum Resources



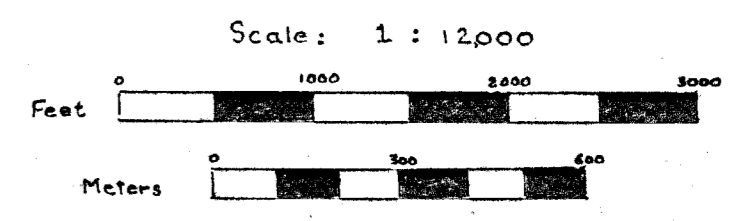
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,569



GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,569



DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	REFERENCE	No.	DWG. No.

GIBRALTAR MINES LIMITED		Control by chain and compass
ZE 1 GROUP		DRILL HOLE LOCATIONS
FILE No.		

SCALE 1 inch = 1000 feet