

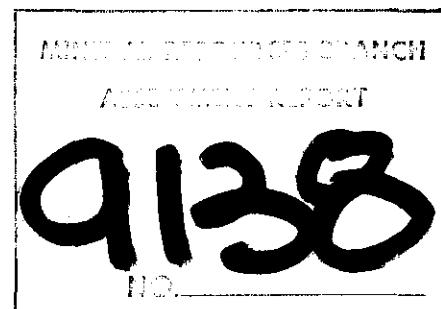
DIAMOND DRILLING REPORT ON THE ELF GROUP

Akie River Area
Omineca Mining Division

N.T.S. 94-F-7

Latitude: $57^{\circ} 18' N$

Longitude: $124^{\circ} 42' W$



By:

W.J. Roberts

CYPRUS ANVIL MINING CORPORATION

June 11, 1981

Field Work Done During The Period: June - September, 1980

PLEASE NOTE: THIS REPORT IS TO BE KEPT
CONFIDENTIAL FOR ONE YEAR. IT WILL BE
AVAILABLE TO THE PUBLIC ON June 17/82

BRITISH COLUMBIA MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT COVER SHEET

Name..... Fig..... No.....

Mining Inventory Nos..... NTS

Lat. 57° 19.5' Long. 124° 45' NTS 94F 17E 4W

Mining Division... Omineca Location Approx 39 Km S.W.

to the junction of Akie R & Finlay R, with
Akie R flowing through the N tip of the property.

Claims (Central Records) Elf 1 & 2 (6 units), EIF 3 (4), EIF 4

Claims (total) (10), EIF 5 (4), EIF 6 (10), EIF 7 (4), EIF 8
(18), EIF 9 (8), EIF 10 (8), EIF 11 (12), EIF 12 (1), EIF
13 (20), EIF 14 (20), EIF 15 (2), EIF 16 (5), EIF 17 (3)

Owner 1. CYPRUS ANVILL MINING CORPORATION 2. EIF 18 (4), EIF 19 (4)

Address 300-355 Burrard Street, Vancouver EIF 21 (3)

Operator 1. Same as Above 2.

Address.....

Owner/Operator 3.....

Metals.....

Geological description Underlain by Lower Devonian to Mississippian sediments
of the Elf Group: Wimberley Formation of shale with minor
silification; Gauntlet Formation of thin shale, carbonaceous shale with
o-basite surface horizon near its base; and Paul River silicic acid
References 1271, 7308, 8042 / graphitic shale.

Work done... Drilling

Type	Amount	Claims Worked On
DiAD: 4101: 3 m; 10 holes; NQ,		EIF 2, 4, 5

Author(s) W.J. Roberts

Aff. date June 17, 1981 Year of work 1980 To geology July 13, 1981

Attention Information class 3

Comments COK

Value work done (from report) 665,484.47 Name of PAC Account Amount

Value of work approved 665,484.47 Cyprus Anvil Mining Co. Ltd 419,184.47

Value claimed (from statement) 246,300.00

Value credited to PAC account 419,184.47

Value debited to PAC account

Accepted M. J. Roberts Date 3/8/81 Report No. 81-#402 9138

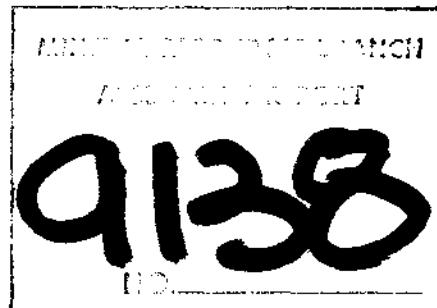
NTS 94F 17E 4W

DIAMOND DRILLING REPORT ON THE ELF GROUP

Akie River Area
Omineca Mining Division

N.T.S. 94-F-7

Latitude: 57° 18' N
Longitude: 124° 42' W



By:
W.J. Roberts
CYPRUS ANVIL MINING CORPORATION
June 11, 1981

Field Work Done During The Period: June - September, 1980

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Appendix II - Summary of Costs

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Maps

	<u>Scale</u>
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Map No. 2 Diamond Drill Hole Plan	1:5,000
Map No. 3 Cross Section 95W	1:1000
Map No. 4 Cross Section 99W	1:1000
Map No. 5 Cross Section 102W	1:1000
Map No. 6 Cross Section 105W	1:1000

LIST OF CLAIMS - ELF GROUP

<u>Claim No.</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Recording Date</u>
1	1215	6	June 23, 1978
2	1216	6	June 23, 1978
3	1217	4	June 23, 1978
4	1218	10	June 23, 1978
5	1219	4	June 23, 1978
6	1220	10	June 23, 1978
7	1221	4	June 23, 1978
8	1222	18	June 23, 1978
9	1223	8	June 23, 1978
10	1224	8	June 23, 1978
11	1225	12	June 23, 1978
12	1226	1	June 23, 1978
13	1247	20	July 18, 1978
14	1248	20	July 18, 1978
15	1249	2	July 18, 1978
15 ?	1295	9	August 1, 1978
16	1804	5	June 22, 1979
17	1805	3	June 22, 1979
18	1951	4	August 13, 1978
19	2898	4	July 11, 1980
21	3180	3	September 11, 1980

Cyprus Anvil Mining Corporation

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INTRODUCTION

The ELF GROUP, totalling 161 units, was staked in early June, 1978, to cover several moderate lead-zinc anomalies in tributaries of the Akie River and a float occurrence of high-grade stratiform barite-lead-zinc mineralization in a thick succession of Upper Devonian "Black Clastics" which host potentially economic lead-zinc deposits on the nearby Cirque Group. During 1979 a high grade showing of stratiform barite-sphalerite-galena mineralization was located in Elf Creek and drill tested by four holes late in the fall. Results of this program were encouraging enough to propose a 3000 meter drilling budget in 1980.

In 1980 ten holes, totalling 4101.3 meters, were completed in the area of the showing with little success of a major high grade intersection.

LOCATION AND ACCESS

The ELF GROUP is located in the Williston Lake area in northern British Columbia. The claims cover the south slope of the Akie River valley between the river and interfluve ridge to the south (Figure 1). The center of the claim group, located

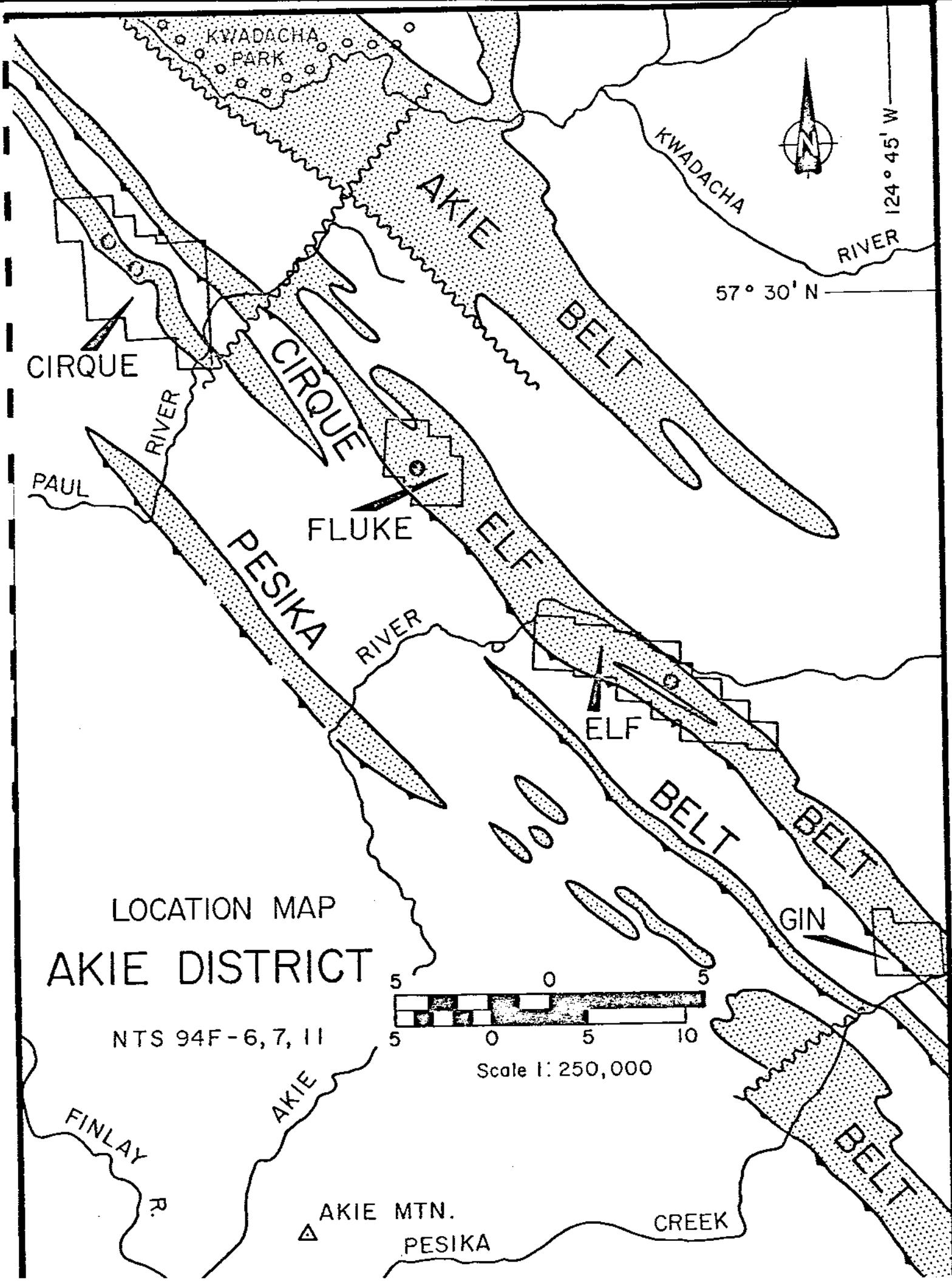
CYPRUS ANVIL

LOCATION MAP AKIE DISTRICT

NTS 94F-6, 7, 11



Scale 1: 250,000



at latitude $57^{\circ} 124^{\circ} 42' W$, is roughly 35 kilometers on a bearing of 035 degrees from Akie Mountain.

Field work on the ELF GROUP was conducted with a helicopter borne program based at Finbow, 40 kilometers to the northwest. Logistical support was provided by fixed wing aircraft based at Mackenzie, 250 kilometers to the south.

REGIONAL GEOLOGY

Lower Devonian to Mississippian rocks are preserved in a series of synformal fold keels and thrust plates that form four sinuous, semi-continuous, northwest-trending belts. This package overlies and is overthrust by Upper Cambrian to Silurian strata belonging to the Kechika and Road River Groups. The Devonian to Lower Mississippian section can be split into four main subdivisions. The Lower to Middle Devonian limestones and shales are characterized by massive, grey, fossiliferous limestone (Kwadacha and Pesika Reefs), limestone debris flows and chert breccias that interfinger laterally with graptolitic shales, cherts and distal calcareous turbidites (Paul River Formation).

The Akie Formation comprises rusty brown and grey-weathering shale, silty shale and siliceous shale which unconformably

overlie the lower to Middle Devonian strata. Some shales which have been mapped as Akie Formation may be facies equivalents of the Lower to Middle Devonian units, or basal shales of the Gunsteel Formation. An unconformity between the top of the Silurian and the base of the Upper Devonian is indicated in drill core by the conglomeratic, reworked top of the Silurian Siltstone. The duration and regional nature of the unconformity are poorly understood. The problem is complicated by depositional thickness and facies changes in Lower to Middle Devonian strata and lack of paleontologic control.

The Gunsteel Formation consists of silvery-grey weathering, black, siliceous, carbonaceous shale and chert, and overlies the Lower to Middle Devonian package. The Gunsteel Formation is host for all known barite-sulphide mineralization and most of the known stratiform barite deposits in the region.

The Warneford Formation is Upper Devonian to Lower Mississippian submarine fans of chert and shale conglomerates in the west interbedded to the east with silty distinctly laminated shales which have thin dolomitic siltstone interbeds. The Warneford Formation is interbedded with and overlies the Gunsteel Formation.

E1f Group Table of Geological Formations

WARNEFORD FORMATION

- 9B** - soft grey foliated shale with indistinct siltstone laminae
- 9E** - dark grey shale with very few siltstone interbeds
- 9F** - speckled siltstone, minor grey shale

GUNSTEEL FORMATION

- 8U** - soft phyllitic grey shale
- 8T** - black laminated shale with <1 cm light grey siltstone turbidites
- 8S** - massive bedded black shale often with carbonate nodules and varying amounts of laminar banded pyrite
- 8R** - massive bedded black shale with >5% laminar banded pyrite
- 8B** - massive white to light grey crystalline barite with <20% sulphides
- 8P** - massive fine grained laminated pyrite
- 8D** - black very siliceous shale

PAUL RIVER FORMATION

- 6S** - black siliceous shale with crinoidal limestone debris flows
- 6A** - black graphitic shale

SILURIAN SILTSTONE

- 5D** - light grey variably bioturbated to laminated dolomitic siltstone

ROAD RIVER FORMATION

- 4J** - dark grey massive to flaggy bedded limestone

DIAMOND DRILLING PROGRAM

One Longyear Super 38 drill, contracted from J.T. Thomas of Smithers, B.C., was used for the 1980 drill program. All coring was completed using NQ equipment. Problems were encountered in long holes with excessive drill hole deviation and gouge zones related to normal faults. Drill holes were all surveyed at 50 to 100 meter intervals using Sperry-Sun, down-hole magnetic surveying equipment. All core from the drilling program is stored on the property in a large field along the Akie River.

Four sections were constructed at a scale of 1:1000 at 030 degrees in the Elf Creek valley. The locations of drill holes were determined by topography and projected onto the sections. Projection problems involved drill hole deviation, several faults oblique to the section and bedding trends not parallel to section projections.

Section 95 W

Drill holes 80-E-08 and 80-E-09 were collared approximately 700 meters southeast and along strike from the surface exposure of stratiform barite-lead-zinc mineralization. As may be noted on Map No. 3, both drill holes intersected an overturned section of Warneford silty shale and siltstone, Gunsteel Formation,

unit 8, and Paul River Formation. The Gunsteel largely consists of Pregnant Shale, unit 8S, with less than 20 meter intervals of laminar banded pyrite. Massive pyrite, barite and galena-sphalerite mineralization was notably absent in both holes. Horizons of Laminar Banded pyrite appear to be the distal facies of the surface exposure of barite-sulphide mineralization.

Section 99 W

Section 99 W, constructed using drill holes 80-E-05 and 80-E-02, also outlines an overturned sequence of Gunsteel Formation interfingering with Warneford siltstones overlying a 30 meter interval of Paul River Formation, unit 6. The section of Gunsteel Formation, unit 8, with a true thickness of approximately 100 meters, contains several horizons of laminar banded pyrite of which two were assayed. Both assays yielded high zinc-lead ratios with high silver values. Sampling of all laminar banded pyrite in hole 80-C-05 will be completed during the 1981 field season.

Section 102 W

Drill hole 80-E-10 was collared directly below the known showing on grid line 102 W and intersected five meters of white crystalline barite at a depth of 430 meters. Although visible

coarse crystalline galena was visible in the barite, assays yielded very low grades of lead, zinc and silver. A 20 centimeter bed of barite intersected at 401 meters contained six per cent combined lead-zinc with 18 grams per tonne silver may also be the facies equivalent of the high grade surface mineralization. Although there is a notable increase of laminar banded pyrite in hole 80-E-10, only the baritic sections were assayed in 1980. Further assaying will be completed in 1981.

Drill hole 80-E-01 was placed 800 meters northeast of the known showing to test for mineralization in what was though to be the shallow core of the Elf Syncline. As one may note, the hole terminated in overlying Warneford Formation at a depth of 531.3 meters.

Section 105 W

Drill holes 80-E-03 and 80-E-04 were collared in Road River Formation and attempted to intersect west dipping mineralization below the thrust panels. Both holes terminated in fault gouge before reaching the proposed mineralized horizon near the base of the Gunsteel Formation.

A second attempt to test for a strike projection of mineralization to the northwest of the showing was undertaken later in the

season. Both drill holes 80-E-06 and 80-E-07 intersected barren Pregnant Shale, unit 8S overlying the Paul River Formation.

CONCLUSIONS AND RECOMMENDATIONS

The 1980 drilling program was not successful in delineating potentially economic lead-zinc-silver mineralization exposed in the western overturned limb of the Elf Syncline. Since most of the holes, with the exception of 80-E-10, tested the strike projections of mineralization, the 1981 recommended drilling program will test for the down dip rate of mineralization between grid lines 100 and 104 west.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "W. J. Roberts". The signature is written in a cursive style with a large, stylized initial 'W' and 'J'.

W. J. Roberts

Cyprus Anvil Mining Corporation
Appendix I

300, 355 Burrard Street Telex 04508594
Vancouver, British Columbia
V6C 2G8
Telephone (604) 687-2586

STATEMENT OF QUALIFICATIONS

I, WAYNE J. ROBERTS, Geologist, with business address in Vancouver, British Columbia, and residential address in Coquitlam, British Columbia, hereby certify that:

- 1) I graduated from the University of British Columbia in 1968 with a BSc majoring in Geology.
- 2) From 1968 to the present I have been actively engaged as a geologist in mineral exploration in British Columbia and the Yukon Territory.
- 3) I am a Fellow of the Geological Association of Canada.
- 4) I personally supervised the field work on the ELF GROUP and have interpreted all data resulting from this work.



WAYNE J. ROBERTS

DATE

June 15/81

CYPRUS ANVIL

SUMMARY OF COSTS

Appendix II

Salaries and Wages:

G. Fisher	June 22 - 27	6 days @ \$43.70/day	\$ 262.20
J. Lucas	June 22 - 31	10 days @ \$66.50/day	665.00
R. Bray	June 11 - 14, 29, 30	6 days @ \$75.00/day	450.00
C. Jefferson	June 17 - 21	5 days @ \$76.66/day	\$ 383.30
	August 17, 21 - 27	8 days @ \$76.66/day	<u>613.28</u> 996.58
W. Roberts	June 17	1 day @ \$145.24/day	145.24
	Aug. 4, 16-22, 27-29	11 days @ \$145.24/day	1,597.64
	Sept. 3 - 7	6 days @ \$145.24/day	<u>871.44</u> 2614.32
M. Biedler	July 9 - 13	5 days @ \$44.19/day	220.95
	Aug. 3-5, 15-16, 18-20, 22, 23, 26, 31	12 days @ \$44.19/day	\$ 530.28
	Sept. 7 - 10	4 days @ \$44.19/day	<u>176.76</u> 927.99
K. Borthwick	July 9 - 11, 13 - 16	7 days @ \$43.55/day	304.85
N. Laube	July 8 - 11, 13 - 16	8 days @ \$40.45/day	\$ 323.60
	Aug. 2-4, 18-20, 22-24	9 days @ \$54.16/day	<u>487.44</u> 811.04
D. Kilby	July 15 - 30	15 days @ 145.24/day	2178.60
P. Bates	Aug. 15 - 22	8 days @ \$46.82/day	374.56
B. Youngman	Aug. 3, 8 - 10	4 days @ \$53.32/day	213.28

TOTAL SALARIES \$ 9798.42

Diamond Drilling:

<u>Drill Hole</u>	<u>Claim</u>	<u>Depth</u>	<u>Cost</u>
80-E-01	Elf 2	531.3 m x \$ 104.32/m =	\$ 55,425.22
80-E-02	Elf 2	565.7 m x 104.32/m =	59,013.82
80-E-03	Elf 4	203.6 m x 104.32/m =	21,239.55
80-E-04	Elf 4	327.0 m x 104.32/m =	34,112.64
80-E-05	Elf 2	484.6 m x 104.32/m =	50,553.47
80-E-06	Elf 4	202.4 m x 104.32/m =	21,114.37
80-E-07	Elf 4	286.8 m x 104.32/m =	29,918.98
80-E-08	Elf 5	385.3 m x 104.32/m =	40,194.50
80-E-09	Elf 5	655.9 m x 104.32/m =	68,423.49
80-E-10	Elf 4	458.7 m x 104.32/m =	47,851.58
<hr/>			
4101.3 m x \$104.32/m =			\$ 427,847.62

Drill Site Preparation

McCrory Associates - 2 men @ \$200/day/man

July - 6 days

August - 12 days

September - 5 days

October - 12 days

35 days @ \$400 = \$ 14,000

Field Equipment and Supplies \$ 15,086.99

Camp Maintenance 635 man days x \$20/man/day = \$ 12,700.00

Fuel:

Helicopters	-	9484 gallons @ \$ 2.50/gal.	\$ 23,710
Diamond Drill and Pumps	-	9180 gallons @ \$ 2.00/gal.	<u>18,360</u>
			\$ 42,070

Rotary Wing:

Viking Helicopters - two - 5000 aircraft

June	-	53.1 hours
July	-	70.0 hours
August	-	87.7 hours
September	-	34.0 hours

Total 244.8 hours x \$ 300/hour = \$ 73,440

Shirley Helicopters - one - 204 aircraft

June	-	9.1 hours
July	-	20.1 hours
August	-	21.6 hours
September	-	11.6 hours

Total 62.4 hours x \$ 600/hour = \$ 37,440 \$ 110,880

Fixed Wing:

20 Beech trips from Mackenzie over the three month period

20 x 330 miles x \$ 1.70/mile = \$ 11,220.00

Miscellaneous Transportation:

Plane fares, truck rentals, air freight, etc. \$ 16,726.53

District Expense:

Expediting, etc. \$ 4,080.91

Drafting:

C.L. Cory - 24 hours @ \$16.00/hour = \$ 384.00

Report Writing:

W.J. Roberts - 3 days @ \$230/day = \$ 690.00

TOTAL DIRECT EXPENDITURES \$ 665,484.47

Cyprus Anvil Mining Corporation

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Appendix III

AFFIDAVIT SUPPORTING SUMMARY OF COSTS

I, WAYNE J. ROBERTS, Geologist, Cyprus Anvil Mining Corporation, of Vancouver, British Columbia, do hereby state, that, to the best of my knowledge and belief the Statement of Costs in this report (Report of the ELF GROUP Diamond Drilling) is a true account of expenditures incurred from exploration on the ELF property.



WAYNE J. ROBERTS

June 15/81

DATE

CYPRUS ANVIL

DIAMOND DRILL LOGS

A P P E N D I X I V

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-01

Fabric Orientation Diagram:

Project: GATAGALocation: ELF GROUP, 94-F-7Claim: ELF #2Terr. Plane
Co-ords.: 6 353 500 N397 640 EGrid
Co-ords.: 103+50W, 206+30NInclination: VerticalAll symmetry determinations looking
NW with S₁ dipping 74°Elevation: 1050 mNE with dip azimuth 030.Total Depth: 531.3 mPurpose: Test for possible mineralization beneath Akie ShaleLogged by: C. Jefferson Date(s) Logged: _____Drilling Contractor: J.T. Thomas Core: Size From To Collar Cased and Capped: _____NQ 0 531.3Started: June 3/80 Completed: June 14/80

DDH L-F-O-L
2 8

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I	2	810	1617	2425	3234
T	80-1E-01	111950	16353590	39176410	NOT SURVEYED

DDH 80 E 01
2 8

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log

Date: June 14 Logged By: C.W.J.S.

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-02

Fabric Orientation Diagram:

Project: GATAGALocation: ELF CLAIM GROUPClaim: ELF #2Terr. Plane 6 352 680
Co-ords.: N397 570
EGrid
Co-ords.: Inclination: vertical Zenith 180° (less than)

All symmetry determinations looking

with _____ dipping

Elevation: 1085 m (not surveyed)

with dip azimuth _____.

Total Depth: 565.7 mPurpose: To test mineralization potential of proposed syncline which contains showing.Logged by: C. JeffersonDate(s) Logged: June 19, 1980Drilling Contractor: J.T. Thomas

Core: Size From To Collar Cased and Capped: _____

NQ 0 565.7 m Started: June 15/80Completed: June 27/80

DDH 8.5,-E,-0.2
2 8

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I	2	8	10	16	17
T	80-E-02	~1085M	6352480	397570	NOT SURVEYED

DDH 80 E. O. Z.
2 8

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log Date: June 27, 2013 Logged By: CWJ

Date: June 27, 2023 Logged By: CWJ

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-03

Fabric Orientation Diagram:

Project: GATAGALocation: ELF CLAIM GROUPClaim: ELF #16Terr. Plane Co-ords.: 6 352 865 N397 010 E

Grid Co-ords.: _____

Inclination: -60° at 030°All symmetry determinations looking
NW with _____ dippingElevation: 1360 m (not surveyed)

with dip azimuth _____.

Total Depth: 203.6 mPurpose: To test strike extension of Elf surface showingLogged by: G. Simpson Date(s) Logged: _____Drilling Contractor: J.T. Thomas Core: Size From To Collar Cased and Capped: _____NQ 0 197.5BQ 197.5 203.6

* BQ & NQ rods stuck in hole _____

Started: June 28/80 Completed: July 8/80

DDH 10-5-03
2 8

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I	2	810	1617	2425	3234
T	80- E-03	11360	6352865	397101	NOT SURVEYED

DDH 80503

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log

Date: July 8

Date: July 8 Logged By: J.G.S., DBK

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-04

Fabric Orientation Diagram:

Project: GATAGALocation: ELF GROUPClaim: ELF #16Terr. Plane 6 352 865
Co-ords.: N397 010 EGrid
Co-ords.: Inclination: -70° at 030°All symmetry determinations looking
NW with S₁ dippingElevation: 1360 m

with dip azimuth _____.

Total Depth: 327.0 m (not surveyed)Purpose: To test strike extension of Elf surface showingLogged by: G. Simpson/D. Kilby Date(s) Logged: _____Drilling Contractor: J.T. Thomas Core: Size From To Collar Cased and Capped: _____NQ 0 163.7BQ 163.7 327.0Started: July 9, 1980 Completed: July 19, 1980

DDH 80- E - 04

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I 2	8	10	16 17	24 25	32 34
T 0,0 E 0,4	1	1131610	163529165	3970110	14001 SURVEYED

DDH 8.0 E.04
2 8

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log Date: July 1980 Logged By: JGS, D.B.Kilby

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-05

Fabric Orientation Diagram:

Project: GATAGALocation: ELF GROUPClaim: ELF #2 at collar into ELF #4Terr. Plane
Co-ords.: 6 352 680 N397 570 EGrid
Co-ords.: _____Inclination: -60° at 240° Az.All symmetry determinations looking
NW with _____ dippingElevation: 1085 m (not surveyed)

with dip azimuth _____.

Total Depth: 484.6 mPurpose: To test down-dip extension of Elf surface showing

Logged by: _____ Date(s) Logged: _____

Drilling
Contractor: J.T. Thomas Core: Size From To Collar Cased
and Capped: _____

(80-E-05) NQ 0 44.8

(80-E-05A) NQ 0 484.6

Started: July 19/80 Completed: Aug. 1/80

DDH 8.0,- E,-0.5
2 8

8

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I 2	8	10	16 17	24 25	32 34
T 30 E 05		1085	16352630	397570	NOT SURVEYED

DDH 80.E.05
2 8

Cyprus Anvil Mining Corp.

Lithologic Log

Page _____ of _____

Date: August 1981 Logged By: D. Kirby, w/ Roberts

Code	From	To	Recov.	No.	Unit	Description
	10	14	16	20	22 24 26 28 30 34 35	
	600	608	11	11	11	overburden
		712	11	11	11	P.B. dark grey, weakly laminated shale
		750	11	11	11	Dominated black shale
		1570	11	11	11	massive, poorly laminated black shale with large pyrite and septarian carbonate nodules < 20cm
		120114	11	11	11	massive competent black shale. Non-thickly laminated, minor pyrite nodules with carbonate rims - several fault zones within section suggested by lithology change
		2277	11	11	11	massive competent black shale with large septarian carbonate nodules.
		23115	11	11	11	black shale as above with nodular carbonate horizon < 1cm.
	2813			11	11	black shale with increased sulfation. Dominant and associated minor fine pyrite laminae
		2824	11	11	11	massive Dominated fine grained pyrite
		2954	11	11	11	massive black shale with < 20% fine pyrite, banding pyrite
		3033	11	11	11	competent massive black shale, with minor Dominant banding pyrite
		3055	11	11	11	Dominant banding pyrite in black shale, est ~ 40% pyrite.
	3652			11	11	massive black shale with minor pyrite, dominat and small oncotic nodules.
		3655	11	11	11	fault zone - black geyser
		37120	11	11	11	black shale with 20-30% dominat banding pyrite.
		38128	11	11	11	blackish silty shale with several 1-5 foot meter interval D) laminar banding pyrite.
		40004	11	11	11	black shale with only minor pyrite, minor bedding bands.

DDH 8.05.05

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log

Date: Dec 4/80 Logged By: D.Killen W.L.Brown

DDH 80E05

Cyprus Anvil Mining Corp

Page _____ of _____

Logged by

Sampled by —

ASSAY LOG (SAMPLER'S COPY)

Date: _____

Sampled by -

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-06

Fabric Orientation Diagram:

Project: GATAGALocation: ELF CLAIM GROUPClaim: ELF #4Terr. Plane 6 353 160
Co-ords.: N397 090
EGrid
Co-ords.: Inclination: -45° at 211° Az.All symmetry determinations looking
_____ with _____ dippingElevation: 1255 m

_____ with dip azimuth _____.

Total Depth: 202.4 mPurpose: To test strike extension of Elf showing.Logged by: J.T. ThomasDate(s) Logged: Drilling
Contractor: Core: Size From To Collar Cased
 NQ 0 202.4 and Capped: Started: Aug. 2/80Completed: Aug. 7/80

DDH E.O.-E.-06

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Eastng	Comments
I	2	8	10	16 17	24 25
T	E.O.-E.-06	112551	163531	1610 1391701901	MOIST SURFACE

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
I	2	8	10	14 22	26 28 32 34
R	E.O.-E.-06	1100	1350	2111.0	AT COLLAR
R	E.O.-E.-06	11951	1281.0	2110.0	
R	E.O.-E.-06	11850	1111.5	2115.0	
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					
R					

Code	Drillhole	Comments, Errant Remarks, Snivellings and/or Lewd Suggestions
I	2	8
		HOLE STOPPED DUE TO ETC SHALLOW
		BUT CROWN BAIL LOST DUE TO RUST
		SHOULD HAVE BEEN SPOTTED
		IF RUSTED

DDH 50000

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log

Date: 11/17/84 Logged By: B. V. Thompson

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-07

Fabric Orientation Diagram:

Project: GATAGALocation: ELF CLAIMSClaim: ELF #4Terr. Plane
Co-ords.: 6 353 160 N397 090 EGrid
Co-ords.: _____Inclination: -65° at 210° Az.All symmetry determinations looking
NW with S₁ dippingElevation: 1255 m (not surveyed)SW with dip azimuth 210.Total Depth: 286.8 m at 210° Az.Purpose: To test northern extension of Elf mineralization.Logged by: C. Jefferson Date(s) Logged: _____Drilling Contractor: J.T. Thomas Core: Size From To Collar Cased and Capped: _____NQ θ 286.8

Started: Aug. 7/80 Completed: Aug. 11/80

Cyprus Anvil Mining Corp.

DDH S.C. - F. - G.T.

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I 2	8	10	16	17	24 25 32 34 48
T	80-E-07	12551	163531	1610 1397090	NOT SURVEYED

DDH 80 E 07
2 8

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log

Date: Aug 11/80

. Logged By: C. Jefferson

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-08

Fabric Orientation Diagram:

Project: GATAGALocation: ELF CLAIMSClaim: ELF #5Terr. Plane
Co-ords.: 6 352 350 N397 850 EGrid
Co-ords.: Inclination: -60° at 230°All symmetry determinations looking
_____ with _____ dippingElevation: 1340 m (not surveyed)

with dip azimuth _____.

Total Depth: 385.3 mPurpose: Logged by: C. Jefferson Date(s) Logged: August 17, 1980Drilling Contractor: J.T. Thomas Core: Size From To Collar Cased and Capped: _____
NQ 0 355.3Started: Aug. 12/80 Completed: Aug. 21/80

DDH  5

Diamond Drill Core Log

ID	Drillhole	Elevation	Northing	Easting	Comments				
					1	2	3	4	5
T	E01-F-08	81340	16352350	397357	NOT	SURVEYED			48

A. - seen 1.

DDH 8.0.E.08

Cyprus Anvil Mining Corp.

Page _____ of _____

Lithologic Log

Date: Aug 21/20 Logged By: C. Jefferson, W. Roberts

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-09

Fabric Orientation Diagram:

Project: GATAGALocation: ELF GROUPClaim: ELF #5Terr. Plane Co-ords.: 6 352 350 N397 850 E

Grid Co-ords.: _____

Inclination: -80° towards 230°All symmetry determinations looking
NW with _____ dippingElevation: 1340 m

with dip azimuth _____.

Total Depth: 655.9 m

Purpose: _____

Logged by: C. Jefferson/W. RobertsDate(s) Logged: September 7, 1980Drilling Contractor: J.T. Thomas

Core:	Size	From	To	Collar Cased and Capped:
<u>NQ</u>	<u>0</u>	<u>655.9</u>		
_____	_____	_____		
_____	_____	_____		
_____	_____	_____		

Started: Aug. 21/80 Completed: Sept. 2/80

Cyprus Anvil Mining Corp.

DDH 5-5-79
2 8

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments					
1	2	8	10	16	17	24	25	32	34	4
T	80-5-09	111340	1613523510	181317191510	140T	1848191601				

Code	Drillhole	Depth	Zenith Angle	True Azimuth	Comments
R	801-E-08	101.1	1422.1	2628.1	3234.1
R	801-E-09	131.4	1701.0	0230.0	0230.0 AT COLLAR
R	801-E-09	115.24	1701.0	0270.0	
R	801-E-09	122.68	1751.0	0257.0	
R	801-E-09	127.43	1721.0	0253.0	
R	801-E-09	132.53	1711.0	025121.0	
R	801-E-09	141.21	1641.5	2481.0	
R	801-E-09	149.43	1511.0	025101.0	
R	801-E-09	157.15	1441.0	02514.0	
R	801-E-09	161.14	1451.0	025121.0	
R	801-E-09	165.29	149.0	025121.0	
R					
R					
R					
R					
R					

DDH 80 E.09
2 8

Cyprus Anvil Mining Corp.

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Lithologic Log

Date: Sep 2/80

Logged By: E. Jefferson Roberts

Code	From	To	Recov.	No.	Unit	Description						
	10	14	16	20	22	24	26	28	30	34	35	
	100	1120	11	11	11	11	11	11	11	11	11	overburden
	111	1108	11	11	11	11	11	11	11	11	11	- dark grey shale with siltstone interbeds < 1m.
	111	11186	11	11	11	11	11	11	11	11	11	- grey shale
	111	11199	11	11	11	11	11	11	11	11	11	- very siliceous black shale
	111	12076	11	11	11	11	11	11	11	11	11	- massive bedded black shale often with blebs of calcite + barite < 2mm.
	111	12096	11	11	11	11	11	11	11	11	11	- massive thick bedded black shale with < 10cm horizons of laminar banded pyrite
	111	131578	11	11	11	11	11	11	11	11	11	- massive featureless, compact black shale with carbonate nodules < 10cm and minor disseminated pyrite.
	111	13584	11	11	11	11	11	11	11	11	11	- massive streaked siltstone.
	111	13908	11	11	11	11	11	11	11	11	11	- massive bedded black shale, several spherical lamellar nodules.
	111	14340	11	11	11	11	11	11	11	11	11	- laminae banded pyrite in black shale
	111	14430	11	11	11	11	11	11	11	11	11	- black siliceous shale with < 5cm siltstone laminae.
	111	14828	11	11	11	11	11	11	11	11	11	- massive black shale with discontinuous beds of < 5mm barite nodules.
	111	14983	11	11	11	11	11	11	11	11	11	- massive black shale with blebby nodular pyrite < 3mm and laminar banded pyrite.
	111	15182	11	11	11	11	11	11	11	11	11	- massive black shale with minor laminar banded pyrite
	111	15870	11	11	11	11	11	11	11	11	11	- massive black shale with good 10-30cm intervals of laminar banded pyrite.
	111	16212	11	11	11	11	11	11	11	11	11	- black shale with < 3cm siltstone laminae.
	111	16559	11	11	11	11	11	11	11	11	11	- black shale with carbonate crinoidal debris flows and minor pyrite laminae.
												— END OF HOLE —

CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 80-E-10

Fabric Orientation Diagram:

Project: GATAGALocation: ELF CLAIMSClaim: ELF #4Terr. Plane
Co-ords.: 6 352 950 N (not surveyed)397 400 E (not surveyed)Grid
Co-ords.: 101+98W 200+20NInclination: -60° towards 210°All symmetry determinations looking
_____ with _____ dippingElevation: 1130 m (not surveyed)

with dip azimuth _____.

Total Depth: 458.7 m

Purpose: To trace extension of Elf showing down dip

Logged by: C. Jefferson Date(s) Logged: September 10, 1980Drilling Contractor: J.T. Thomas Core: Size From To Collar Cased and Capped: _____
NQ 0 458.7

_____Started: Sept. 3/80 Completed: Sept. 13/80

DDH 8.0 - F - 10
2 8

Diamond Drill Core Log

Code	Drillhole	Elevation	Northing	Easting	Comments
I 2	8	10	16 17	24 25	32 34
T	EP - E - 10	11130	6352930	297442	10T 515443

DDH 8.0 E 1.0

Cyprus Anvil Mining Corp.

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2 8

Lithologic Log

Date: Sept 3/81 Logged By: C. Jefferson

Code #	From	To	Recov.	No.	Unit	Description
	10	14	16	20	22 24 26 28 30	34 35
	1100	1124	11	11	1111	overburden
	117A8	118	11	11	1111	B.R. dark grey to medium grey shale with good phyllitic partings parallel to foliation.
	12438	11	11	11	1111	- massive bedded black siliceous shale with several spherical carbonate nodules < 10cm and indistinct calc. siltite beds < 1cm.
	12500	11	11	11	1111	- Fault zone several clay gouge zones in brecciated black massive bedded shale.
	12551	11	11	11	1111	- massive black shale with tabby barite beds (< 3cm) every 5-20 cm.
	12613	11	11	11	1111	- massive black shale with minor nodular barite beds and very graphitic rich horizons.
	13179	11	11	11	1111	8.S massive bedded, competent, black siliceous shale with locally abundant sphaeroidal septarian carbonate nodules < 5cm.
	13603	11	11	11	1111	8.R - massive bedded black siliceous shale with < 30% laminae banded pyrite
	13866	11	11	11	1111	8.S - massive bedded black shale
	40117	11	11	11	1111	8.R - massive black shale with 10-20 percent common banded pyrite.
	40119	11	11	11	1111	8.B - massive white crystalline barite with < 15 percent pyrite
	41119	11	11	11	1111	8.S
	41165	11	11	11	1111	8.R
	42220	11	11	11	1111	8.S
	42270	11	11	11	1111	8.R

DDH 8.0 E. 10
3 8

Cyprus Anvil Mining Corp.

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Lithologic Log

Date: Sept 13/80 Logged By: C. Jefferson

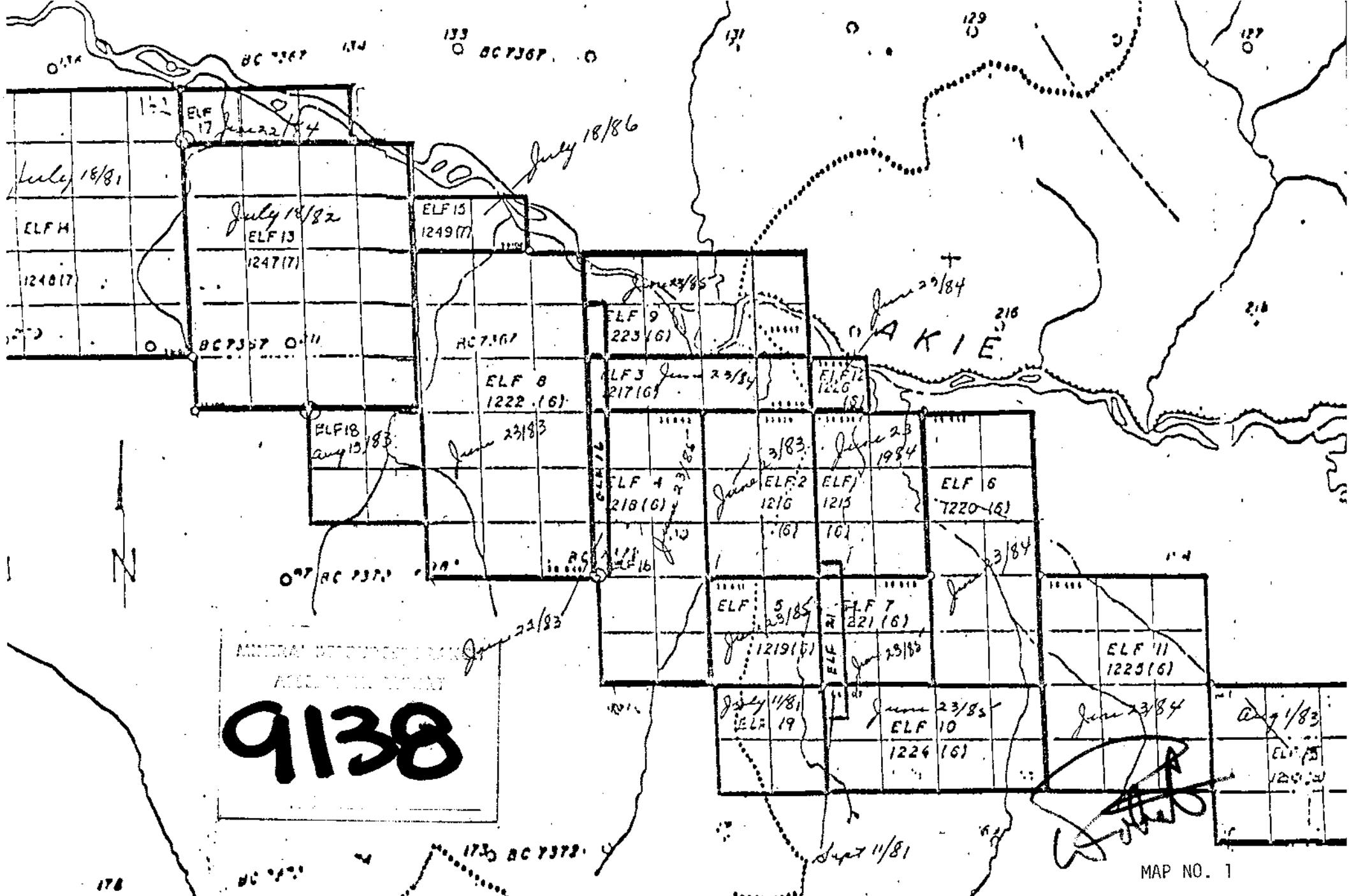
DDH 80E10 Cyprus Anvil Mining Corp Page _____ of _____
Logged by _____

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Logged by _____

Sampled by _____

ASSAY LOG (SAMPLER'S COPY) Date _____ Sampled by _____



MAP NO. 1

ELF GROUP
 NTS 94-F-7
 Scale 1:50,000



MINERAL RESOURCES BRANCH
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Legend

- Legend

Cut Line

• • • • Pace & Compass Line

Legal Corner Post

→ Diamond Drill Hole

Scale and elevation datum based on limited ground control resulting in good relative, uncertain absolute map accuracy.

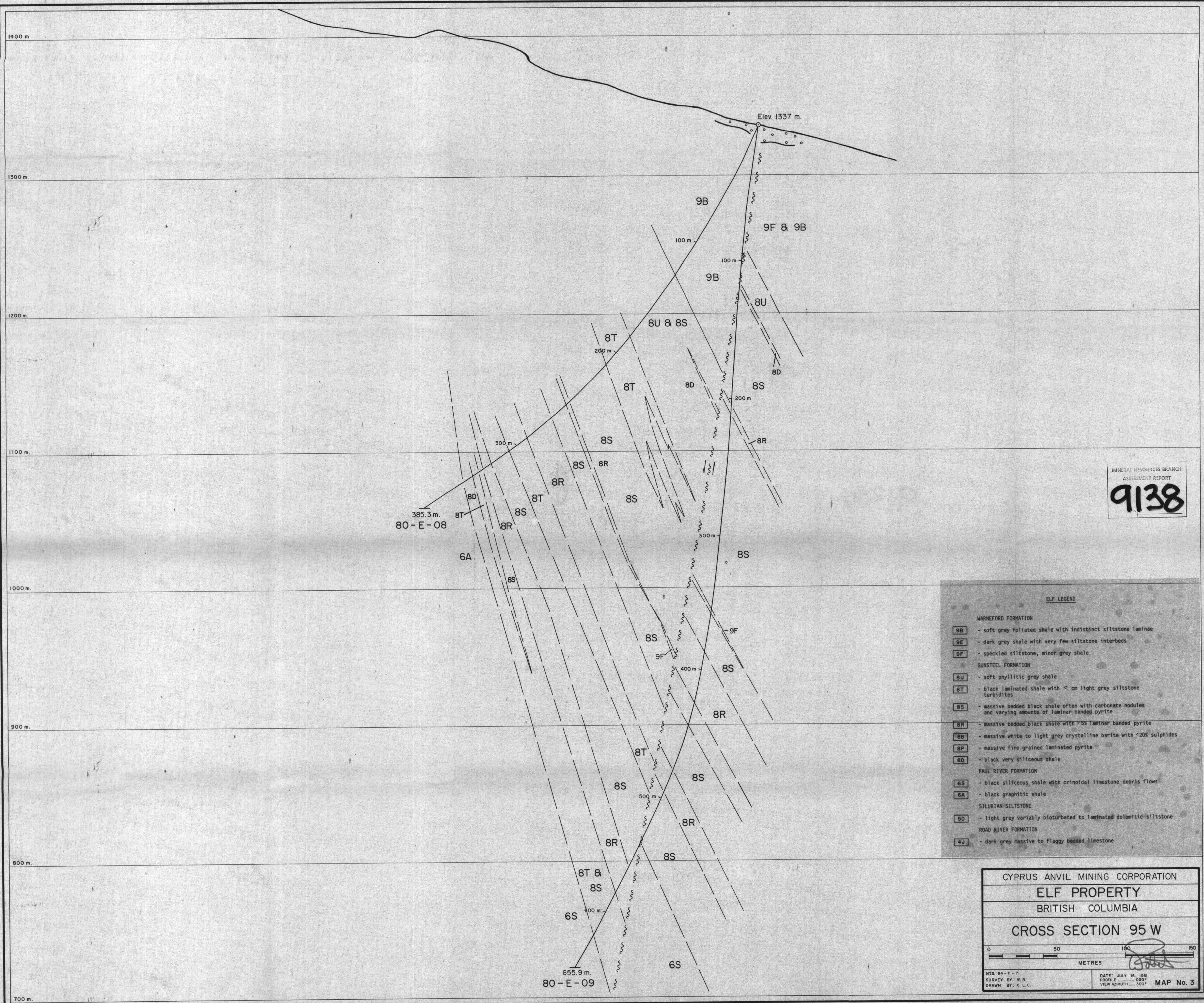
A scale bar and text block from a historical map. The scale bar at the top shows distances of 0, 100, 200, 300, and 400 meters. Below it, the text 'SCALE IN METRES (1:5000)' is printed.

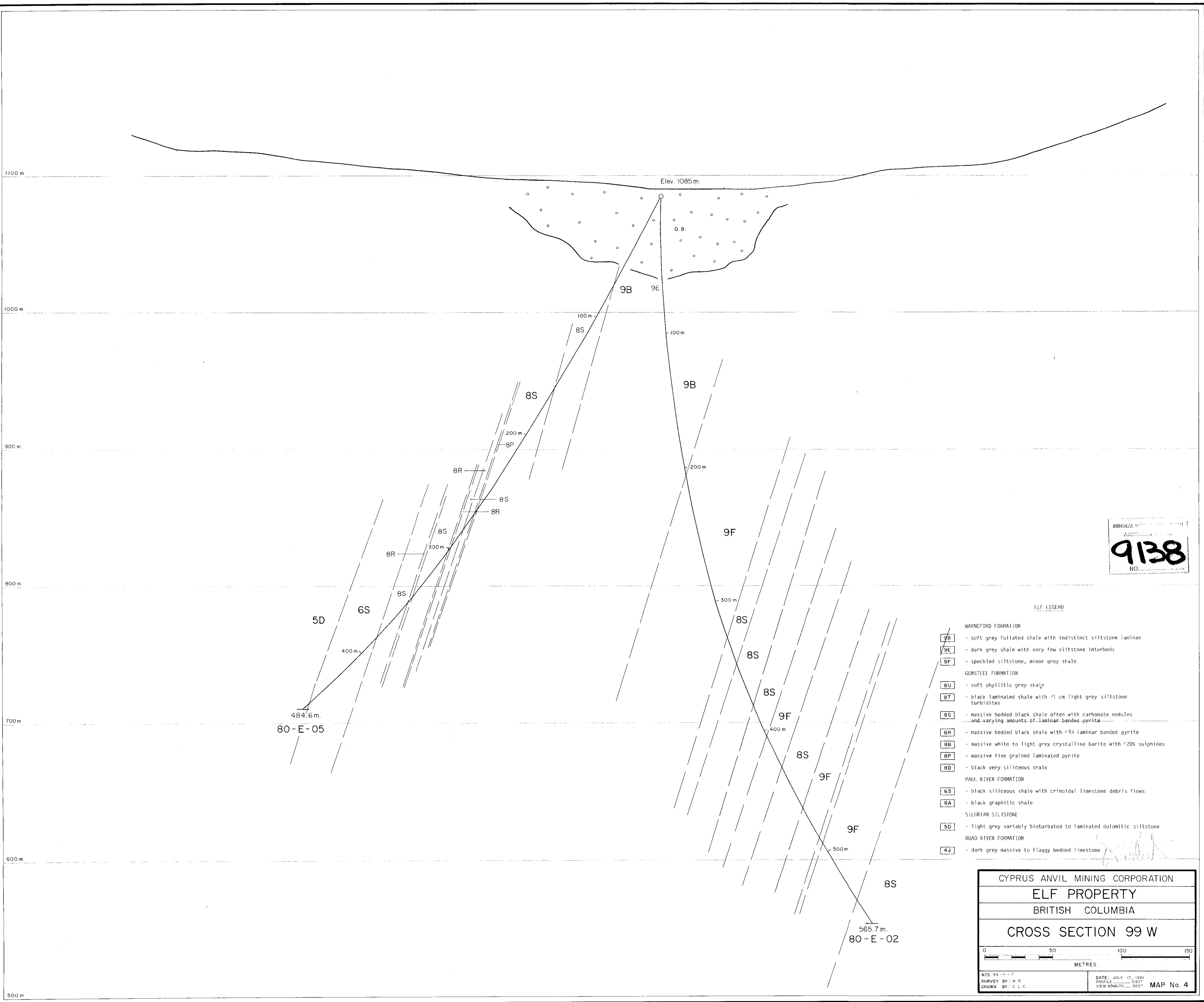
CYPRUS ANVIL MINING CORP.


ELF CLAIM

DRILL HOLE LOCATION MAP

Map N







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CYPRUS ANVIL MINING CORPORATION ELF PROPERTY CROSS SECTION

102 W

AP No. 5

