GEOLOGICAL REPORT

DONA AND IRENE CLAIMS

VERNON MINING DIVISION

BRITISH COLUMBIA

MONASHEE MOUNTAINS AREA

11/86

· NTS 82 1/1W (LAT. 50008'N and 118024'W)

OPERATOR AND OWNER

#1410 - 650 West Georgia Street
Vancouver, B.C. V6B 4N8



by

L.A. Bayrock, Ph.D., P.Geol. 1899 Queens Avenue West Vancouver, B.C.

GEOLOGICAL BRANCH ESSMENT REPORT

September 1985

14,567

TABLE OF CONTENTS

INTRODUCTION		1
i) ii) iii)	Terms of Reference Location and Access Topography Claims	1 1 2
147	or a ring	2
GEOLOGY		3
i) ii)	Regional Geology Local	3 4
CURRENT INVEST	rigations	6
BUDGET		7
BIBLIOGRAPHY		9
EXPENDITURES		10
CERTIFICATE		11
DETAILED COST	STATEMENTS	Schedule A
	ILLUSTRATIONS	
Location Map		Figure l
Claim Map		Figure 2
Trench Plan		Figure 3
Segment C		Figure 4
Segment E		Figure 5
Sample Results	· ·	Figure 6
Attitude of Be	adding/Cample Beculte	Figure 7

Geological Report on the Dona and Irene Claims Vernon Mining Division, Monashee Mountains

Introduction

Terms of Reference:

Mr. Daniel Small, Keefer Resources Inc. approached the writer in September 1985 to compile an assessment report on the Dona and Irene claims for the year ending July, 1985. Considerable work has been done on the claims in October 1984. The work was supervised by F.M. Smith, P.Eng., who also described the geology and sampled the trenches. The author of this report visited the claims for one day on September 21, 1985. The maps and mapping results of the trenches performed by Mr. F. M. Smith were presented to the author as a basis for this report. An assessment report on the property of July 1984 and authored by Shannon Grant, B.Sc. and F.M. Smith, P.Eng., serves as a background for this report.

Location and Access:

The general location of the property is shown on Figure 1. The claims are located in the Monashee Mountains in the upper reaches of the Kettle River. The Dona claims are situated on the south slope of a hill at elevations from 1,300 to 1,700 meters. The claims are in the Vernon Mining Division, British Columbia. The nearest town is Lumby, which is approximately 50 kilometers west on Highway 6. A gravel road leads from Highway 6 to the property (Keefer Lake Road) for five kilometers and then a logging road leads to the central portion of the claims. The distance on the logging road is approximately two kilometers.

Topography and Vegetation:

All of the work performed during October, 1984 was on the Dona claims. The topography is that of a mountain side with slopes from 10^{0} to 30^{0} in the lower portions and near the upper portions, trench T 84-6 the slopes are below 10^{0} . Vegetation of the Dona group is comprised of spruce, hemlock, cedar and Douglas fir, all immature because the area has been burned over. Mature forest is present only near T84-6.

The Irene claims surround the Dona claims on all sides except the west, Figure 2. These claims are located on both sides of the Kettle River and cover slopes of mountains facing south and north. Surrounding the Kettle River are wide and flat alluvial plains which are also covered by the claims groups. No work has been done on the Irene claims.

The Irene claims have forest vegetation both mature and immature. Small meadows are present along the Kettle River.

Claims:

The Dona-Irene group consist of three owner groups with all claims subject of an option agreement with previous owners. The Dona claims are recorded in the name of G.A.Noel and Associates Ltd., the Irene 1 is owned by Salmet Resources Corporation (and located by V.Ryback-Hardy P.Eng.). The Irene 2 through 5 and Irene Fraction are owned by Granex Resources Corporation. Right, title and interest in and to all of these claims have recently been acquired by Keefer Resources Inc.

Claim Name	Туре	Record No.	Expirty Date
DONA 1-11	2 post	17281-17291	July 27, 1985
DONA 12-17	2 post	17390-17395	Sept. 28, 1985
IRENE 1 2N 2W	metric	964 (12)	Dec. 11, 1985
IRENE 2 IN x 8E	metric	1231 (8)	July 9, 1985
IRENE 3 3S x 6E	metric	1232 (8)	July 9, 1985
IRENE 4 3S x 6E	metric	1233 (8)	July 9, 1985
IRENE 5 3S x 3W	metric	1234 (8)	July 9, 1985
IRENE Fraction	metric	1235 (8)	July 9, 198 <i>5</i>

The expiry dates will be advanced one year for all of the claims upon acceptance of this report.

Posts for Dona and Irene claims were examined in the field in October 1983, by Mr. F.M Smith and were found to be in order.

The locations of the claims are shown of Figure 2.

GEOLOGY

Regional Geology:

The regional geology of the claims group has been compiled from existing liturature by F.M. Smith and was presented in his 1984 report. For the sake of completion, his description is reproduced below.

The DONA group lies in a 27 km (North-South) by 16 km (East-West) belt of sedimentary and volcanic rocks mapped as Carboniferous-Permian "Cache-Creek" group (Jones 1959). According to A.V. Okulitch and R.B. Campbell (1980, Open File 637), the DONA claims are in the "Thompson Assemblage", the renamed "Cache-Creek" group.

"The Assemblage is typified by argilaceous sediments, vocaniclastic rocks, and limestone pods". (OF 637)

Fossils have been located with ages from Late Mississippian to upper Triassic from within the same region and most of the massive limestone pods have recently been dated as Triassic.

Immediately south of the Kettle River is outcrop of Jurassic age granodiorite which cuts off the north west trending belt of Thompson Assemblage on the south and south western side. To the north and north west, the Thompson Assemblage is overlain by the Triassic age Nicola group. To the east the rocks merge into the "Shuswap Complex" of highly altered rocks.

The Thompson Assemblage appears to be equivalent to the Slocan Group (and Milford Group) rocks on the east side of Arrow Lake about 75 km (40 m) east in the Tillicum Mountain area. Preliminary evaluation of gold and silver bearing mineralization in the Tillicum-Nakusp district indicates most of the values are located in "skarn" at or immediately above the (paleo) top of lenticular flows of dacitic composition.

Local:

The Dona claims cover a large geochemical arsenic and gold anomaly. This anomaly forms the central exploration area of the claims group. All of the 1984 work was concentrated on the anomalies. This reporting years work was concentrated on further exploration of the anomalies.

The geology of the anomalies and surrounding area is that of a

volcanic pile comprising intermediate to acid rocks and ranging from volcanoclastic deposits to flows. The individual flows were altered by epithermal action depending on perosity variations. Thus, one may find the tops of some flow preferably altered as opposed to the bases. Numerous small fractures of diverse orientation, ranging is size to small faults, were also hydrothermally altered. Most of the alterations carry sulfide mineralization. The sulfides are pyrite, arsenopyrite with minor galina, sphelerite, and chalcopyrite.

Quartz veins follow many of the fractures, faults and stratigraphic disconuities. The quartz veins are also mineralized with the above sulfides. No visible gold has been encountered. The gold is associated not only with the quartz veins but also with the alteration zones.

Beside the above mineralizations, sulfides occurr also as disceminations and pods within the individual volcanic deposits. The occurrence of the pod is remenescent of some low grade massive sulfide deposits.

Interbedded with the volcanics are calcarious deposits. These lime rich horizons have been altered by the hydrothermal fluids to scarns with actinolite and clinozoisite being the common minerals.

The volcanic pile with calcarious interbeds may represent a volcanic arc environment of sub-tropical to temperate climate. Under such conditions sulfer rich fumeroles and hot water vents mineralize the volcanic pile. Thus the geology of the claims area has a potential for economic deposits not only of gold but also of base metals.

The volcanic pile was intruded by dykes and stocks of diorite. The diorite is medium grained and massive. The relationship of the diorite to the mineralization of the area is not known.

CURRENT INVESTIGATIONS

Extensive trenching through the anomaly area has been done in the past. The results of the previous work are presented by Shannon Grant and F.M. Smith in the report of July 1984. The present report deals only with additional work performed during October 1984.

A total of 390 meters of trenches were dug during October 1984. The locations of the trenches are shown on Figure 3. Access roads rehabilitated or constructed for the trenching are shown by a dash line on Figure 3. The trenches are T84-4, T84-6 and T84-10. Trench T84-4 is comprised of five segments, four of which were sampled and mapped. The results of the sampling and mapping, including the assays, are given on Figure 4 and 5. No high values were encountered, although interesting alterations and sulfide mineralization is present in the trenches.

Trench T84-6 has been sampled but not mapped. The results are shown on Figure 6. No high mineralization was encountered, but some values are interesting.

Trench T84-10 has been sampled and mapped and the results are shown on Figure 7. Again, no high values of gold or silver were encountered.

The assay results of the October 1984 sampling are discouraging. This does not mean that the area under investigation does not have an economic deposit of gold and silver. During previous investigations, it was found that high values of gold and silver were found in trenches #5, #1 and #1a. It is recommended that future exploration be concentrated in the above mentioned areas.

BUDGET

In the 1984 report, F.M.Smith recommends future work in three phases. Phase 1A, trenching and sampling, Phase 1B, preliminary drilling, and Phase 2, developmental drilling. Obviously, trenching and sampling has not produced the desired results. Consequently, Phase 1B and Phase 2 should be postponed until such a time when trenching and sampling exploration will delineate areas or targets for drilling. Thus, it is recommended to repeat Phase 1A-trenching and sampling. The following budget for exploration and drilling is set up following the budget presentation of F.M. Smith of July 1984 report.

Preliminar	ry Work Programme	
Phase 1A -	Trenching and Sampling	
1.	Cant trenching and roads @ \$65/hr.	\$ 4,000.
2.	Back-hoe trenching on zones	3,000.
3.	Truch, travel, mob/demob	3,000.
4.	Geology	2,000.
5.	Report, supervision, assays	2,000.
6.	Room, board and comsumables	1,000.
	Total Phase IA	\$15,000
Phase IB		
1.	Core drilling, 500 m @ \$80/m (all inclusive	\$40,000.
2.	Cat roads and drill pads	2,000.
3.	Supervision and geology	5,000.
4.	Room, board and consumables	3,000.
5.	Truck, mob/demob, travel	3,000.
6.	Reports	2,000.
	Contingencies	<u>5,000</u> .
	Total Phase 1B	\$60,000.

Total Phase 1A & 1B

\$85,000.

Budget (cont.)

Phase II

1.	Diamond Drilling 1,500 m @ \$80/m all	
	inclusive of assays	\$120,000.
2.	Road and drill support	20,000.
3.	Supervision	10,000.
4.	Room, board, consumables, equipment rental	5,000.
5.	Reports ,assessment filing, fees and licenses	10,000.
6.	Truck rental	5,000.
7.	Travel costs	2,000.
8.	Compilation and project evaluation	8,000.
	Contingencies	20,000.
	Total Phase II	\$200,000.
	Total Phase 1A, 1B, and II	\$285,000.

BIBLIOGRAPHY

British Columbia Department of Mines Annual 1913, 1924

Jones, A.G.

Vernon Map Area, British Columbia GSC Memoir 296, 1959

Jones H.M.

Report on the Exploration Program DONA claim, December 4, 1974

MacKenzie, M.J.

Summary Report 1973 Field Work, December 6, 1973.

Okulitch, A.V. and Campbell, R.B.

GSC. Open file 637, Thompson-Shuswap-Okanagan.

Ryback-Hardy, V.

Geochemical and Geophysical Report on the DONA Group of Claims, November 21, 1973.

Ryback-Hardy, V.

Report on the DONA Group of Claims for Selmet Resources Corp., Oct. 30, 1980

Smith, F.M.

Report on the DONA and Irene claims, for Keefer Resources Inc, July, 1984

EXPENDITURES

1984-85 Fiscal Year:

	account) Total	\$20,409.63
Chemex Labs Ltd.	(included in F.M. Smith	
Bondar-Clegg		330.00
Mohawk Oil Compa	ny Ltd.	11,166.60
F. Marshall Smit	h	\$8,913.03

CERTIFICATE

I, L.A.Bayrock, of 1899 Queens Avenue, West Vancouver, British Columbia, certify that:

- 1) I am a registered member of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.
- 2) I graduated from the University of Alberta majoring in geology in 1953, B.Sc., and 1954, M.Sc., I graduated from the University of Wisconsin in 1960, Ph.D.
- 3) I have practiced my profession continuously since graduation.
- 4) Neither I, nor any member of my family has any interest in Keefer Resources Inc.
- I have examined the property on September 21, 1984 and found the workings and the geology to be as shown on the maps produced by F.M. Smith, P.Eng.. I have examined the locations of the samplings and have read previous data on the property.
- 6) This report may be used only for assessment purposes.

Dated at West Vancouver, in the Province of British Columbia, this the 27 day of September, 1985.

L.A. Bayrock, Ph.D., P. Geol.

Andre CReg & Company Ltd. 5420 Canotek Rd., Ottawa, Ontario, Canada K1J 8X5 Phone: (613) 749-2220 Telex: 053-3233



GOLDEN PORPHYRITE GOLDEN PORPHYRITE 403 750 W. PENDER VANCOUVER.B.C. VGC 217 Invoice: 15239

Date: January 18, 1985

Report No: 425-0055

Project: NONE GIVEN

Te Dona PROJECT

24 Analyses of Silver	at	7.50	180.00	
24 Analyses of BOLD - FIRE ASSAY	at	3.00	72.00	
Subtotal			252.00	252.00
Sample Preparation				
24 Samples of ASSAY PREP	at	3.25	78.00	
Subtotal	•		78.00	78.00
Invoice Tot	al	•	•	\$330.00

** FINAL INVOICE **

SCHEDULE A



Chemex Labs Ltd.

212 Brooksbank North Vancouver,

Canada V7J

Telephone: (604) 984-Telex: 043-5

Analytical Chemists • Geochemists • Registered Assayers

CERTIFICATE OF ASSAY

TO : GOLDEN PORPHYRITE LTD.

403 - 750 WO. PENDER ST.

VANCOUVER, B.C.

V6C 2T7

CERT. # : A8417549-00

INVOICE # : 18417549 DATE : 13-NOV-84

P.O. # : NONE

ATTN: MARSHALL SMITH

	LL SMITH						
Sample	Prep	Ag FA	Au FA				
description	code	oz/T	oz/T				
10225	207	0.10	0.004	~ =			
10226	207	0.06	0.003				
10227	207	0.05	0.004				
10228	207	0.06	0.004				
10229	207	0.03	<0.003				
10230	207	0.02	<0.003				
10231	207	0.04	<0.003				
10232	207	0.05	0.003				
10233	207	0.09	0.003				
10234	207	0.37	0.045	- →			
10235	207	0.08	0.004				
10236	207	0.08	0.011				
10237	207	0.16	800.0				
10238	207	0.15	0.097				
10239	207	0.07	0.006				
10240	207	0.02	0.003				
10241	207	0.08	0.003				
10242	207	0.09	<0.003				
76851	207	0.02	<0.003				
76852	207	0.57	0.010				
76853	207	0.05	0.004				
76854	207	0.06	0.006				
76855	207	0.06	<0.003				
76856 T34-E	207	0.14	0.009	 .			
76857	207	0.06	0.003				
76858	207	0.02	0.004				
76859	207	0.23	0.070				
76860	207	0.16	0.050				
76861	207	0.20	0.005				
76362 134/	207	0.08	<0.003				
76863 "	207	0.51	0.003				
76864 7943	207	0.14	0.003				
76865 "	207	0.15	0.003				
76866 "	207	0.22	0.004				
76867	207	0.04	0.005				
76368	207	0.04	0.003				
76869	207	0.01	0.005				
76370	207	0.02	<0.003				
76871	207	0.08	0.004				
76872	207	0.05	0.003		. -		

Registered Assayer, Province of British Columb



Chemex Labs Ltd.

Analytical Chemists •

Geochemists • Registered Assayers

212 Brooksbank Ave. North Vancouver, B.C. Canada V7J 2C1

Telephone:(604) 984-0221

Telex: 043-52597

CERTIFICATE OF ASSAY

TO : GOLDEN PORPHYRITE LTD.

403 - 750 WO. PENDER ST.

VANCOUVER, B.C.

V6C 2T7

CERT. # : A8417549-002-

INVUICE # : 18417549

DATE : 13-NOV-84

P.O. # : NONE

Sample	Prep	Ag FA	AU FA				
description	code	oz/T	oz/T				
76873	207	0.01	0.016				
76874	207 .	0.06	0.004				
76875	207	0.01	<0.003				
76876	207	0.08	0.007				
76877	207	0.02	<0.003				
76878	207	0.08	<0.003			- <i>-</i>	
76879	207	0.03	<0.003				
76880	207	0.02	<0.003				
76381	207	0.01	<0.003				
76882	207	0.03	<0.003				
76883	207	0.01	<0.003				
76884	207	0.06	<0.003				
76885	207	0.06	<0.003				
76886	207	0.06	0.009				
76887	207	0.08	<0.003				
76888	207	0.13	0.015		· · ·	· 	
76889	207	0.06	0.013				
76890	207	0.05	0.009				
76891	207	0.11	0.043				
76892	207	0.05	0.006				
76893	207	0.05	<0.003				
76894	207	0.03	<0.003	·			
76895	207	0.04	<0.003	_ =			
76896	207	0.11	0.003				
76897	207	0.07	<0.003				
76898	207	0.06	<0.003	_			
76899	207	0.06	<0.003				
76900	207	0.06	<0.003		_		

Annu Chroice





6580 MAYFLOWER DRIVE, RICHMOND, B.C. CANADA V7C 3X6 TELEPHONE (604) 271-6556 115 - 100 WEST GROVE STREET RENO, NEVADA, USA 89509

INVOICE

TO:	Keefer Resources Inc. \$1410-650 W. Georgia Street Vancouver, B.C. V6B 4N8	DATE: Febru	eary 20, 1985 85-13
DESC	RIPTION:		
	• •		
COST	<u> </u>		
	Total days - 13 days Room Travel Vehicle Materials Assays Report	12.94 429.75 960.18 95.75 1,026.63 1,387.78	8,913.03
	Advance		4,500.00
	Plea	se pay this amount.	\$4,413.03

BALANCE DUE UPON RECEIPT OF THIS INVOICE



MOHAWK OIL CO. LTD.

MINING DIVISION
PLEASANT VALLEY ROAD
BOX 610, VERNON, B.C. VIT 6M6
PHONE 545-3301 • TELEX 048-85365

November 15, 1984

INVOICE

#40369

Keefer Resources 1410 - 650 West Georgia Street P.O. Box 11563, Vancouver Center VANCOUVER, B.C. V6B 4N6

Attention: Dan Small

RE: DONA CLAIMS - KEEFER LAKE RESOURCES

October 12 - 25, 1984 D6C - 46 hrs @ \$70/hr \$ 3,220.00 FL9 Backhoe - 46 hrs @ \$65/hr. 2,990.00 Travel Time - 2 hrs/day @ \$15/hr - 24 hrs 360.00 Standby Time - 6 hrs @ \$15/hr 90.00 Mob-Demob - 16 hrs @ \$15/hr 240.00 1 Geologist - 3½ days @ \$125/day 437.50 600.00 1 Geologist - 4 days @ \$150/day Room & Board - 20 man days @ \$61.75/day 1,235.00 247.00 Marshall Smith - 4 man days @ \$61.75/day VEHICLE CHARGES - flat rate for on-site vehicles 525.00 1 Ford 4x4 - 7 days @ \$75/day all inclusive 1 Crewcab 4x4 - 3 days @ \$75/day all inclusive 225.00 -Day rate + kilometer & gas charge 1 Dodge 4x4 - 1 day @ \$45+(394 kilo's x .18)+ 0 fuel 115.92 1 GMC 4x4 - 1 day @ \$45+(192 kilo's x .18)+ \$30 fuel 109.56 SUB-TOTAL \$10,394.98

Page 2

Invoice #40369

	\$10,394.98
1 Lowbed Truck Vernon - Kettle - Keefer Lake	<u>e</u>
\$54/hr 6½ hrs	351.00
1 Lowbed Truck Vernon - Keefer Lake - Kettle	<u>a</u>
\$54/hr 6½ hrs	351.00
Freight - samples	69,62
	TOTAL \$11,166.60
Net 30 days (1.5 per cent monthly)	Nos

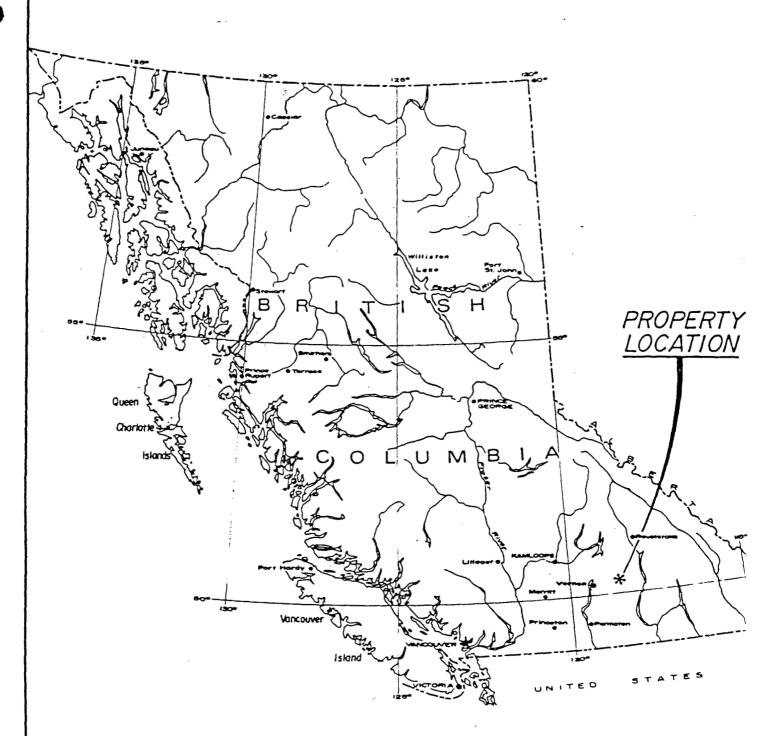
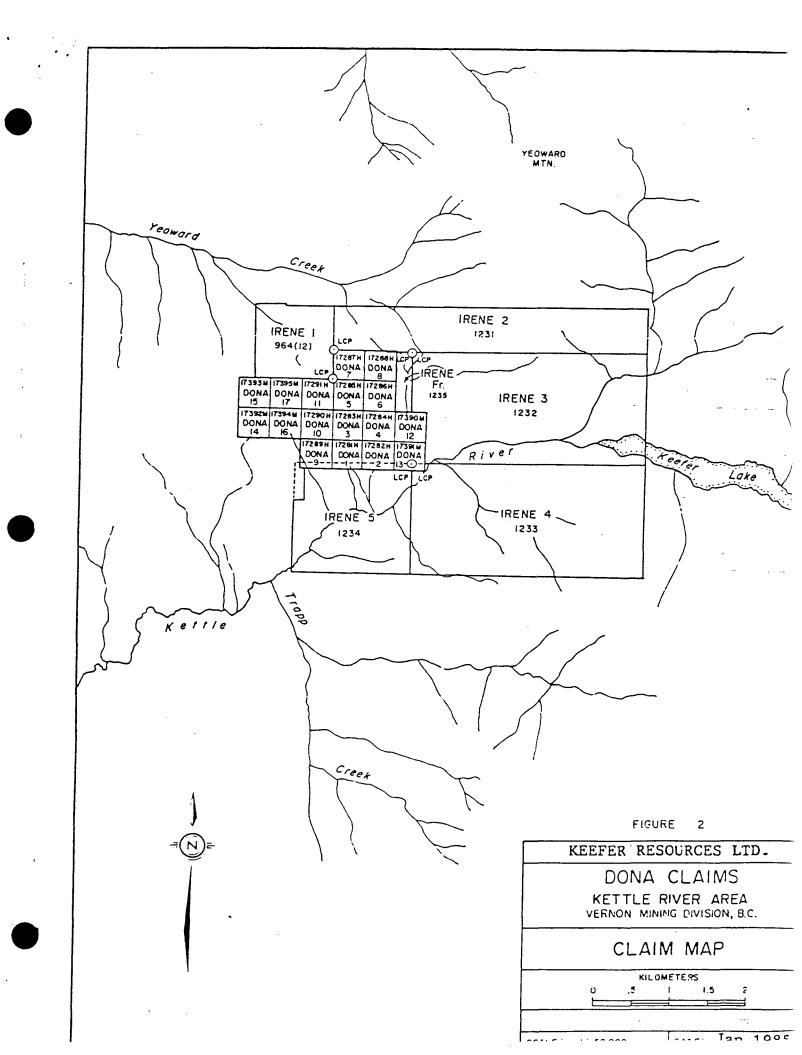


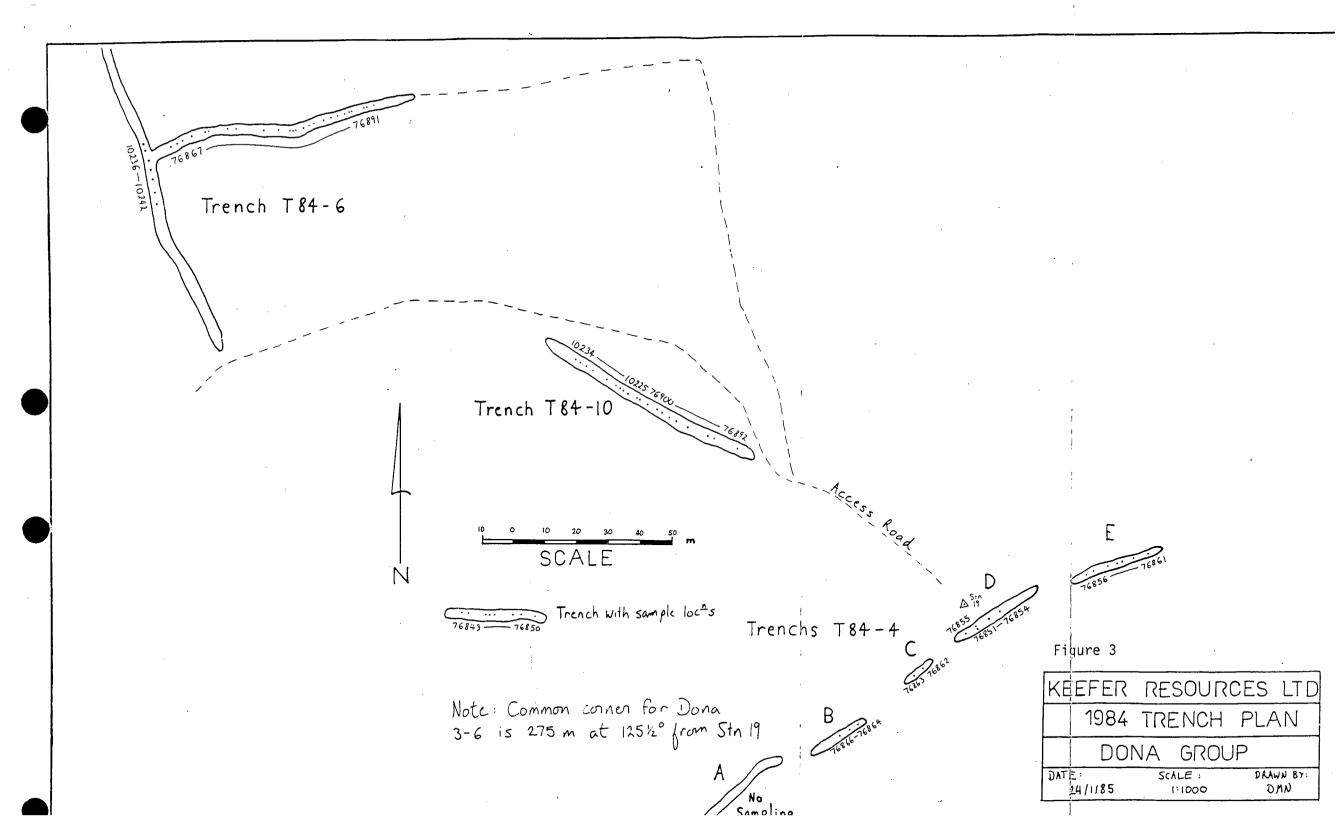
FIGURE . I

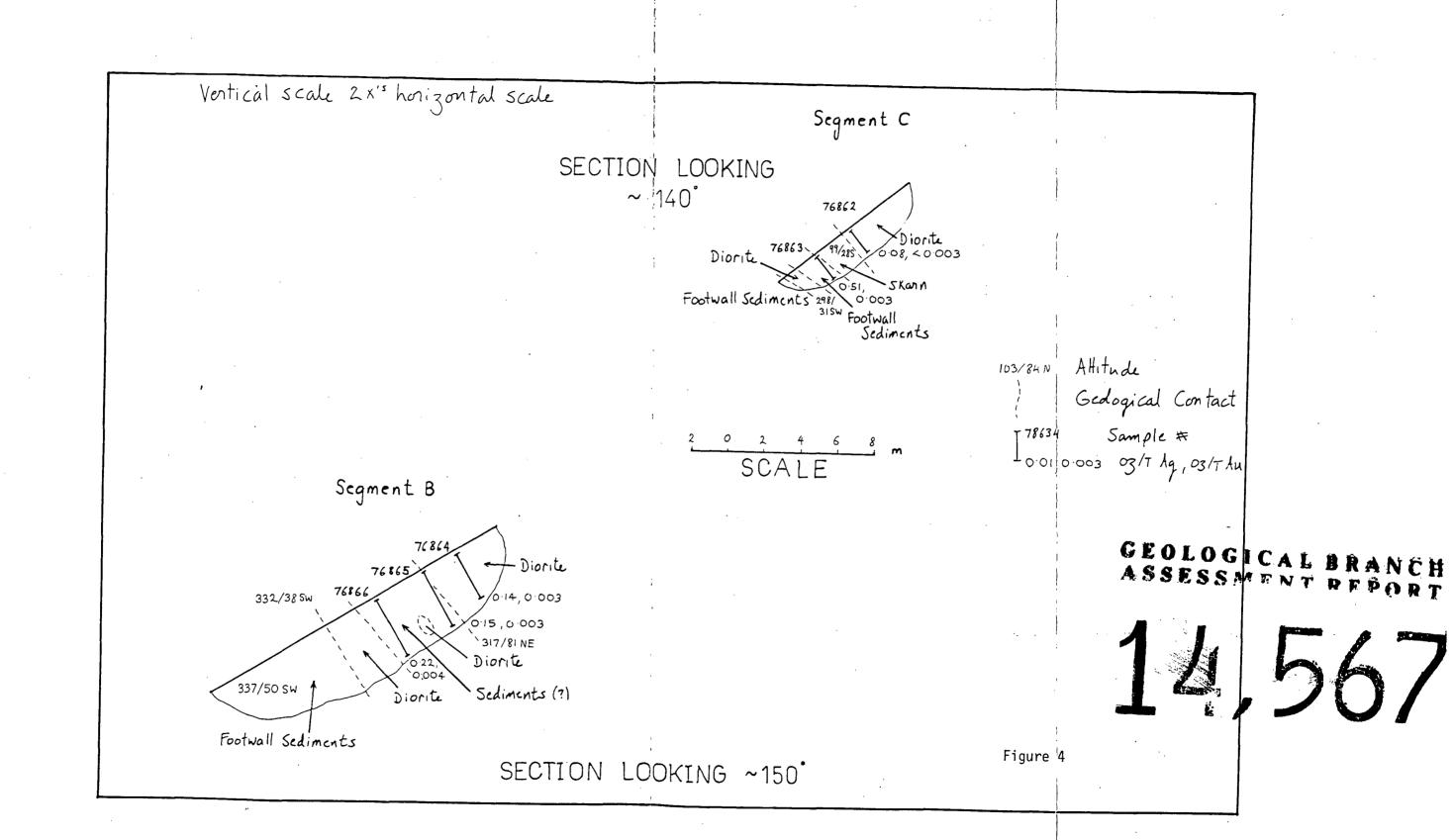
DONA MINERAL CLAIMS LOCATION MAP

SCALE						
Km. 100 5		100	200	300	400	Kr
MI 100	50	0	100)	200	Mil

A1 TA10

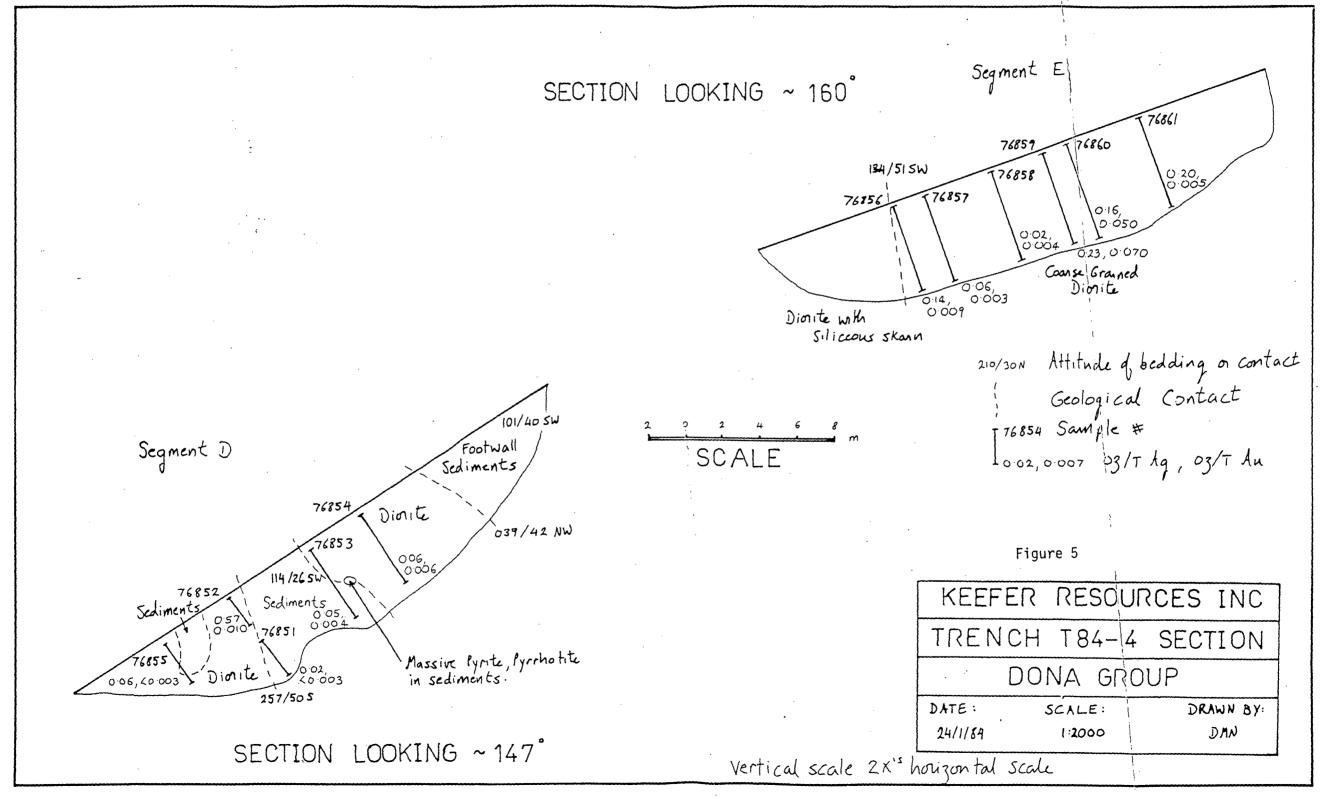


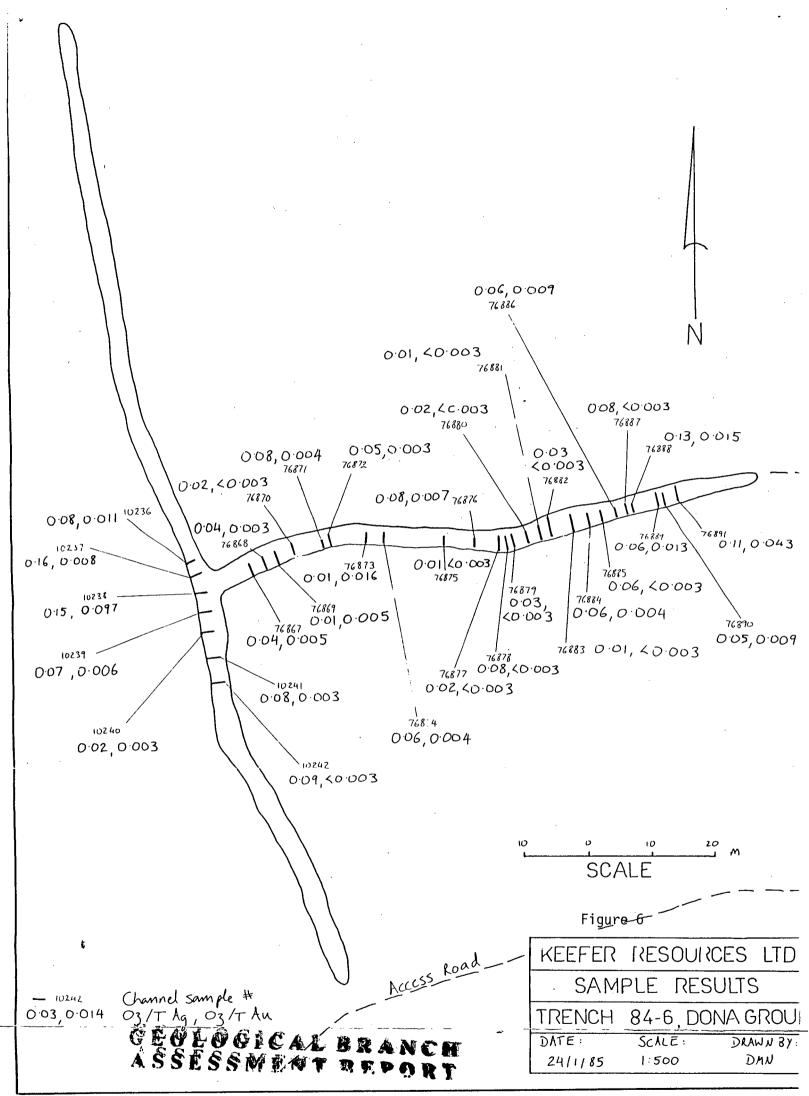




:

14,567





14,567

