F.A.M.E. REPORT

SUMMIT LAKE MINE

ROYAL SCOT RESOURCES LTD.

JULY to OCTOBER 1987

D.L. DICK, B.Sc.

SUMMARY

During the latter part of 1987 a geological and diamond drilling programwas carried out by Royal Scot Resources Ltd., on the Summit Lake Mine Property (formerly Scottie Gold Mines Ltd.) with the intention of assessing the remaining potential of this former producer.

Approximately 1589 m of BQ core was drilled and a comprehensive geological review of all available data was carried out.It is concluded that additional potential exists for the mine and that a more advanced program be prepared.

TABLE OF CONTENTS

A. INTRODUCTION

This report is prepared as part of the requirement for the financial assistance for mineral exploration made on behalf of Royal Scot Resources Ltd.

Herein described is the program carried out by the company during the latter part of 1987 on its property, the Summit Lake Mine (formerly Scottie Gold Mines Ltd.).

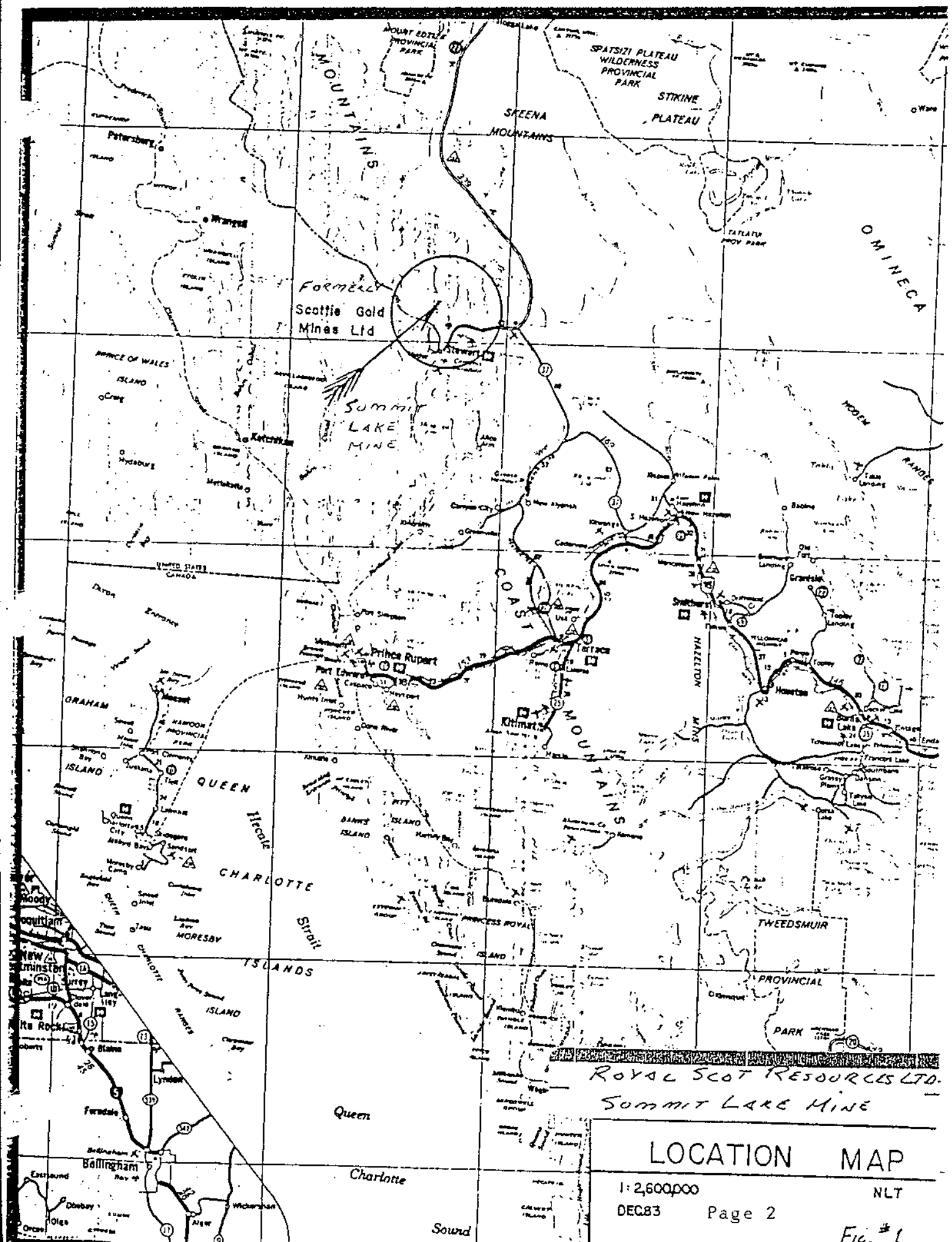
B. LOCATION

The property is located 30 miles north of the town of Stewart, B.C.. The claim block lies on the east slope of Morris Summit Mountain and extends to the eastern shore of Summit Lake and occurs on N.T.S. area 104-B-1 (see fig. 1). The main portal (3000) is approximately 56 30' north latitude and 130 05' west longitude at an elevation of 3000 feet.

C. ACCESS

Access to the property is over approximately 24 miles of good gravel road from Stewart to the mine camp which is located on the N.E. shore of Summit Lake. At present the facilities are established for 15 to 25 men. A summer road winds from the camp to the main Portal for approximately 1 1/2 miles above the western shore of the lake. An underground tracked tunnel 7300' long also accesses the Main Portal and underground mill area from the campsite. This tunnel is accessed by 4 portals along its route. The mill and powerhouse are accessed by two portals immediately below the Main Portal at elevations a.s.l. 2800' and 2900' respectively. The mine workings are accessed by three portals more or less on an east-west trend at elevations a.s.l. 3000', 3600' and 3900'. The latter portal is a lateral break through from an alimak raise development and is not presently serviceable.

The access road to the campsite has been historically maintained as an all-season road but at present it is essentially a summer road open from June to November. Other mining developments in the region utilize the road as far as the Tide Lake Strip (2 miles further north of Summit Lake) as a logistical base and this fall pooled their resources to extend the road season through collective maintenance.



ROYAL SCOT RESOURCES LTD.

SUMMIT LAKE MINE

LOCATION MAP

1:2,600,000 NLT

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FIG. #1

D. CONDITION OF WORKINGS

The minesite camp originally provided accomodation for 80 men in shed supported double tiered trailers. At present, facilities are established for 15 to 25 men. As well a large garage suitable for H.D. equipment, a small refining shed and a small storage shed remain standing and serviceable. Snow damage on all the buildings was repaired and the structures were re-inforced. The garage was utilized as a corehouse for the 1987 program and the core was stored in an adjoinging lean-to.

The 3000 level was re-activated. Air lines were overhauled and re-fitted and water dams were built. The ramp descending from 3000 level was pumped down approximately 25 vertical feet by two Wilden 2" Model M8 air-operated diaparagm pumps. Progress was slow but it was sufficient to allow westerly access for the diamond drill.

The diamond drill utilized was a BBU2 driven by two 750 c.f.m. Garder-Davis compressors which were located outside and just below the Main Portal. The core size was BQ. The combined c.f.m. of 1500 was adequate to drive the drill and the two water pumps.

The air was fresh and exhausting abundantly but was subject to reversal when the ouside temperature fell. Consequently some allowance was made in positioning the compressors so that the engine exhaust was not in drawn to the mine.

The walls and backs were dry. The back of the 1/2 mile long access drift was tight but the ground conditions generally loosened in the vicinity of the mine workings. The immediate working areas and approaches were properly sealed. The extreme f.w. area, an important drill target, had to be essentially abandoned because of bad ground and the lack of manpower and equipment to secure the area.

The Adit was serviced by hand tram. The large drill while necessary for long hole drilling was burdensome and time consuming to move by hand and to some extent these factors determined drill priorities.

The 3000 level adit and camp were left in a condition that reactivation could be realized with minimum cost and effort.

E. TOPOGRAPHY & CLIMATE

The topography of the area is very rugged with elevations ranging from 2600' a.s.l. to 6500' a.s.l.. Morris Summit Mountain slopes upward at 25 to 45. It is estimated that more than half of the claim group area is occupied by snowfields, icefields or glaciers. Out crops near the icefields are generally well exposed and free of overburden and vegetation. Areas removed from the ice and generally below 4000' are covered with heavy alpine vegetation, slide alder, scrub hemlock, blueberries and heather.

The ice and snowfields are ablating rapidly in the area. Turbulent streams draining the fields have incised narrow steep valleys.

Summit Lake has purged itself annually for years. The lake completely empties during the autumn and the lake level drops over 100 feet to its silt bed, re-filling itself during the summer months.

The climate is northern marine coast type. The summer field season is short, primarily only July and August with cyclical rain and snow following until mid to late October when snow tends to stay. Ice falls are common in early fall and avalanche danger becomes prevalent at the first heavy build-up.

Annual precipitation is over 100 inches with as much as 1100 inches of snow falling during the winter months.

F. CLAIMS

The property consists of 11 claims and 14 Crown Grants as listed below (see fig. 2)

Claims	Record No.
Scot 1	1601
Scot 11	1602
Scot 3	2029
Scot 4	2030
Scot 5	2200
Scot 6	3238
Scot 7	3239
Scotty	680
Royal 1	Pending
Royal 2	Pending
Royal 3	Pending

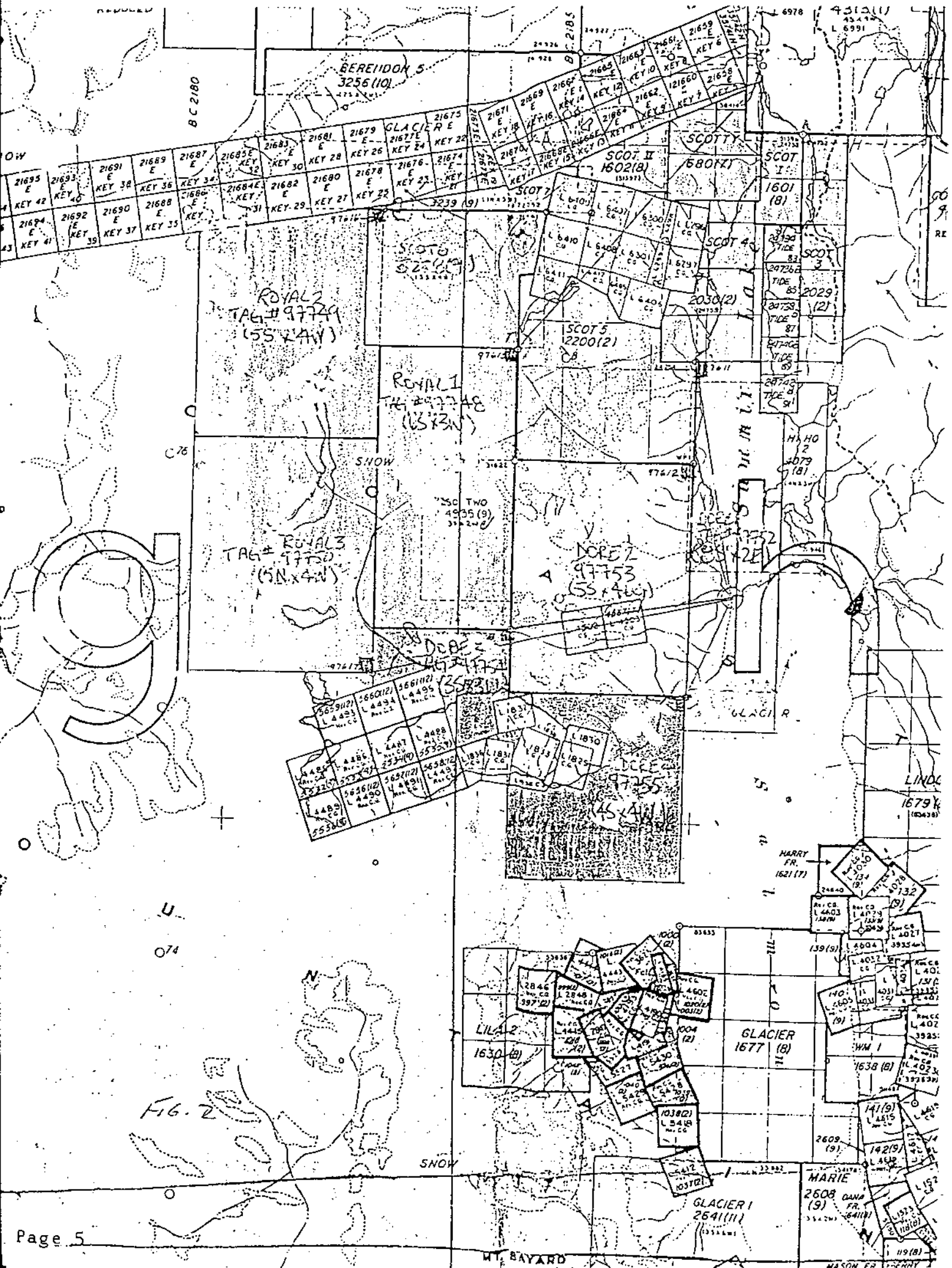
BC 2180
BEREIIDON 5
3256 (10)
SCOTTY
SCOT I
1601 (8)
SCOT II
1602 (8)
SCOT 2
SCOT 4
SCOT 3
2029 (2)
2030 (2)
SCOT 5
2200 (2)
ROYAL 2
TAG # 97749
(55 x 4W)
ROYAL 1
TAG # 97748
(55 x 3W)
SNOW
SCO TWO
4935 (9)
TAG # ROYAL 3
97750
(55N x 4W)
NORE 1
97753
(55 x 4W)
DORE 2
97754
(55 x 3W)
DORE 3
97755
(45 x 4W)
GLACIER
HARRY FR.
1621 (7)
LILLA 2
1630 (8)
GLACIER
1677 (8)
GLACIER 1
2641 (11)
MARIE
2608 (9)
MT. BAYARD

FIG. 2

Crown Grants	Record No.
Prince No. 1	L6407
Prince No. 2	L6408
Prince No. 4	L6409
Prince No. 5	L6410
Prince No. 6	L6411
Prince Fraction	L6412
Summit Lake No. 1	L6296
Summit Lake No. 2	L6297
Summit Lake No. 3	L6298
Summit Lake No. 4	L6299
Summit Lake No. 5	L6300
Summit Lake No. 6	L6301
Summit Lake No. 7 Fr.	L6405
Summit Lake No. 8	L6406

G. HISTORY

The main surface showings were staked in 1928 by Ted Morris and Associates of Stewart, B.C. under the group name "Salmon Gold." It was originally optioned to Premier Gold Mining Company in 1931. Surface trenching disclosed ore-grade mineralization at two points with indicated strike lengths of 85 to 350 feet.

Ten diamond drill holes were drilled and six of these indicated a downward extension of the veins.

In 1934 the property of the newly incorporated Salmon Gold Mines Ltd., was optioned to Consolidated Mining and Smelting Company of Canada Ltd. Several surface diamond drill holes were drilled that year with encouraging results. Between 1935 and 1938 CM & S developed the property by a hand-steeled adit located at the 3600 foot elevations. During that period some 1650 feet of crosscutting and drifting were done, disclosing a 210 foot strike length of ore grading 0.357 oz. Au/ton over a width of 2.4 feet. The results of three thousand feet of underground diamond drilling suggested that one zone had a potential vertical height of at least 1000 feet. Drifting to intersect the upward projection of this zone at the 3600 foot level was not followed up. In July 1939, CM & S relinquished its option due to disappointing results at its Big Missouri Mine and to the impending war.

In 1945 a new company was formed under the name of Morris Summit Gold Mines Ltd. Between 1946 and 1948 some 4000 feet of lateral work and raise development were done from a new portal located at the 3000 foot elevation. In addition some 17,000 feet of diamond drilling was done. A spur cross-cut directed toward an old CM & S diamond drill intersection disclosed the McLeod East zone, (N Zone) which was subsequently developed on that level. Three other ore shoots were also found but the company was unable to obtain financial backing to further develop the property. A joint venture between Newmont Mining Company and Granby Mining & Smelting Company gained control of the company in 1952. These companies re-sampled the workings and diamond drill holes, substantiating the results of Morris Summit Gold Mines Ltd. Surface prospecting and geophysics done in 1956 disclosed the presence of several more gold-bearing veins, but no follow-up work was done on any of these. The property essentially remained idle until 1978 when controlling interest of Morris Summit Gold Mines Ltd., was sold to D.A. McLeod and Associates of Vancouver. During the autumn of 1978 a rough road was punched through to the 3000 foot level adit.

In 1944 the Scotty prospect was located by E.G. Langelle and H. Melville of Premier, B.C.. Letal Explorations optioned the property and explored it with 400 meters of hand trenches and 2730 feet of diamond drilling during the summers of 1945 and 1946.

The prospect occurs to the north and immediately adjoins the original Morris Sumiit claim block and encompasses the Scottie and Scot Crown Grant Group.

In 1978 the claim group was folded in with the McLeod interests.

The McLeod Group began the formation of Scottie Gold Mines Ltd., to develop and proceed in planning and financing towards bringing the mine to commerical production.

The mine came into production on October 1, 1981 and continued in production for approximately 4 1/2 years until Feb. 18, 1985.

Total production from October 1, 1981 to February 18, 1985 amounted to 95,426 ounces of gold from 201,462 tons milled, for an average recovered grade of 0.474 oz. Au/ton (subject to final report of production). The mine was able to supply the mill at rate varing from 135 to 185 tons per day during this period. Recovered grade average 0.51 oz. Au/ton for the

first two years, but dropped to 0.41 oz. Au/ton in 1984, even though mill recoveries were improved from about 75% in 1981 to 92-95% in 1984. This was due partly to narrower vein widths, with attendant higher dilution, and mining lower grade material in an effort to maintain tonnage.

Operating performance steadily improved with costs decreased from $270/ton in 1982 to $203/ton in 1984. An operating loss was sustained each year, but would have been reversed to modest operating profits without interest charges. However, provision for depreciation and depletion resulted in major net losses.

The mine workings are accessible year round by a 7300 ft. tracked adit from the camp on the 2800 level or by road during the snow free months to the 2800 and 2900 and 3000 levels. The main plant installations are situated underground at the end of the adit, with the 200 ton per day mill on the 2800 level, the crushers on the 2900 level and the power house on the 3000 level. Internal access to these installations is by the #1 Alimak Shaft, which services the production levels, at 100 ft. intervals from 3000 to 3600 elevation (with the exception of 3100) is located 1700 ft. west of #1 shaft. There is access to surface via timbered service raises. A 15% downramp, commenced 200 ft. west of #2 shaft on the 3000 level, has reached 2925 elevation.

During the summers of 1983 and 1984 comprehensive surface exploration programs were carried out. The programs primarily involved surface diamond drilling, extensive geo-physical surveys, 1" - 40' scale mapping of the immediate mine surface and 1" - 200' scale mapping of the claim block and underground exploration of the immediate vicinity of the main workings.

At the time of writing, 1987, an underground drilling program and general property review is just being completed.

H. GENERAL GEOLOGY

The Summit Lake Mine Property is overlain by volcanic fragmental rocks of the Hazelton Group. This Group is composed of a number of volcanic and sedimentary units of Jurrassic age. The gold veins of the Summit Lake deposit are hosted by the lower volcanic assemblage (Unuk River Formation) which is primarily comprised by a matrix supported breccia of andesitic composition with local occurrences in the sequence of a fine-grained arentie. The upper unit is sedimentary (and includes tuffs) and outcrops along the eastern boundary of the property. Significant mineralization has not yet been found in this unit.

The main eastern contact of The Coast Range Batholith passes about five miles west of Summit Lake. Buddington has mapped three phases of intrusive which are regionally known as the Texas Creek Granodiorite, The Hyder Quartz Monzonite and The Boundary Granite.

The Texas Creek Granodiorite has been sheared and altered by both of the other later intrusives.

The Hazelton Volcanics on the property have been intruded by a 5 to 6 mile long elongated west trending stock of horneblende quartz monzonite or horneblende granodiorite. It is uncertain whether this intrusion is related to The Texas Creek Granodiorite (mid-Jurrassic) or to the later intrusive phases (Cretaceous or Triassic).

Associated with the coast range intrusives are two primary suites of dykes. The first, a microdiorite, is related to the regional dyke swarm which passes in a northwesterly direction through the entire suite of rocks in the Stewart area, from Alice Arm to the Unuk River. The second, a biotite lamprophy, strikes generally north-south and is localized in the area of property's showings.

The volcanics appear to be steeply folded but marker horizons have not been found to determine the specific nature of the folding. Mapping by Grove indicated a syncline striking north-south and passing just east of Summit Lake and a syncline structure striking north-south and through August Mountain west of the Lake. Tribe (1983) speculates that an anticlinal structure probably exists assoicated with the two synclines which would overlie the property.

Mapping by Grove also indicates an east-west striking syncline just north of the Berendon Glacier and paralleling the trend of the granodiorite stock and the trend of the main showings. The writer agrees with Tribe's anticlinal suggestion and goes further to speculate that the regional controls of the gold-bearing structure is a complex cymoid loop fracture system that is related to the intersection of the two major cross-folded anticlines.

A major north trending fault passes through the immediate mine area between 3000 and 3600 portals. The fault dips westerly at approximately 45. In the hanging wall of the fault the mineralized breaks trend westerly, dipping steeply, in an anastomosing swarm. The fault is known locally as the Morris Summit Fault.

The primary alteration process on the property is the propylitization of the andesites which involves the chloritization of the mafic minerals with lesser epidote alteration. When alteration is particularily intense as near the stock or ore zones the epidote-chlorite replaces the matrix of tne andesite lapilli tuff.

Pyrrhotite, pyrite and trace amounts of chalcopyrite occur with the intense alteration and fracture-coated and dessiminated pyrite are pervasive throughout the area.

The majority of the gold-bearing mineralized showings occur in 3 to 4 localized fracture zones which include:

1. quartz carbonate veins, with pyrite/pyrrohotite
2. pyrrohotite bearing shear zones/fracutres
3. irregular pyrite bearing shears
4. pyrite/pyrrohotite in an altered volcanic host rock
5. hematite bearing shear zones.

The most important zone occurs as the Summit Lake (Scottie) ore body. Here the gold mineralization is hosted primarily by massive sulphide and less quartz carbonate veins which strike sub-parallel and plunge steeply to the northwest to a depth of at least 1200 feet below surface.

The gold mineralization occurs in approximately 1:1 ratio with silver and is contained as small inclusions in the sulphides, principally pyrrohotite and chalcopyrite.

I. DIAMOND DRILL PROGRAM

1. General

The drill program was slated to commence August 21. Because of a general scarity of drill crews, the first drill crew did not arrive until August 28. Temperment, drill breakdowns, and personality conflicts among the cross-shifts hindered productivity. Drilling did not stabilize on a double shift basis until mid-September. After this date consistent and satisfactory drill productivity was achieved. However, because of time, weather and budget constraints the total footage (6000 feet) had to be revised. The total footage realized was 5214 feet comprised in 18 drill holes.

The 3000 level ramp was pumped down approximately 30 vertical feet. The exercise yeilded a 40% advantage in drill footage for the westerly drilling.

Drilling access was confined to 3000 level as access to the other levels would have required hoisting facilities.

A BBU2 drill, coring BQ size core, was employed. The large drill proved to be very laborious and time consuming to move by hand and this consideration guided the drilling priorities to some extent. Nevertheless, the drill was productive (+100 feet per drill shift) and its capability for drilling long holes proved necessary.

2. DRILL PROGRAM RESULTS AND DISCUSSION

The drill program was part of a larger scope geological program involving the comprehensive re-working and review of the mine's surface and underground data. The drill footage was divided into two main categories of activity:

1. The extension of existing ore blocks and the exploration for new but secondary ore shoots. (3908 feet)

2. Drilling related to geological control. (1306 feet)

A total of 5214 feet of BQ core was returned from 18 drill holes. Approximately 625 feet of drilling was lost to bad ground short of vein intersections.

The program drill footage was distributed as follows:

1. (a) Development drilling extending known ore blocks (measured reserves) (47% of total footage)

   (b) Exentended development drilling (indicated and inferred reserves) (15% of total footage)

   (366 feet lost to cave)

Results

Drill holes that intercepted ore grade are:

U87-690 2.3 oz Au/ton over 7'
.143 oz Au/ton over 2'

U87-689 3.3 oz Au/ton over 2'

U87-691 .423 oz Au/ton over 3' (7.05 oz Ag/ton)
.458 oz Au/ton over 2'
.42 oz Au/ton over 5'

U87-694 .23 oz Au/ton over 8'

U87-685 .42 oz Au/ton over 4'

(values undiluted)

Additional		
Production Reserves	4725 tons @	1.18 Au/ton
Indicated	4000 tons @	.30 oz Au/ton
Inferred	1500 tons @	.75 oz Au/ton
Total	10225 tons @	.70 oz Au/ton

Approximate Value insitu: 7873 ounces of Au x $500/oz $3.9 million
7873 ounces of Au x $620/ox $4.9 million

(NOTE: Ore reserves figures are diluted by a minimum of 40% and are preliminary)

Discussion

The new tonnage was realized from tight pattern systematic drilling on the western flank of an anomalous 13000 ton block of ore along strike to the west of the Main Zone. The status of this existing block of ore is upgraded because the new values returned from the structure were drilled on a tighter drill spacing than was utilized on the original block.

The indicated reserves are based on a drill hole down dip approximately 150 feet from the bottom of the area of the tight drill pattern. The inferred reserves are a nominal figure which assumes that the major block will extend at least in part to depth east of this year's drilling.

The results are statistically important in that they display that the mine ore structure will still yield incremental ore reserve increases in response to development drilling.

D.D.H. U87-694 intersected an ore shoot that has been randomly intersected over a vertical distance of 1000 feet. The ore shoot has not been explored by mining but may be occurring as a series of periodic ore shoots along a consistent trend. D.D.H. U87-695 was drilled to intersect 150 feet below and slightly to the west of the shoot but the hole had to be abandoned due to caving.

Other ore reserve blocks above and below 3000 level could also be extended if access and/or drill footage were available. The Western Zone was prioritized for development drilling because of its apparent geological signifigance to a rake of ore on the Main vein to the west and possibly down dip.

(c) General exploration drilling - (13% of total footage)

Two holes, U87-581 and U87-682 were collared in the #2 shaft chamber and were drilled on a horizontal splay to the southeast towards the Morris Summit Fault.

Numerous zones of veinlets (leaders) corresponding to the M, Footwall and N ore zones were intersected in a weakly to moderately proplyitic altered volcanic conglomerate. No significant gold values were returned but two multi ounce silver values were returned over narrow widths.

The area was selected for several reasons:

(1) To test a 500 foot unexplored gap, east of and between the "M" zone and the Morris Summit Fault along the "M" vein fault trend.

(2) To study the inter-relationship of the M and N zone trends as these veins approach the fault.

(3) To explore down plunge for an easterly ore shoot mined above 3600 level and which bottoms in ore on 3600 level.

(4) To broaden our knowledge of the immediate hanging wall of the Morris Summit Fault downstrike of the Main Zone.

Other exploration targets were developed by the geological staff as the program progressed. Some of these targets would have been drilled if alternate drill targets had been immediately necessary (i.e. if the development drilling had failed to prove up reserves).

2. Drilling related to geological control - (25% of total footage)

The gold bearing ore shoots of the Scottie Mine are part of atechnically complex vein system. The known ore shoots and related diamond drilling formats give form to perhaps 25% of the total vein complex above the Morris Summit Fault. In order to assess the remaining 75% of the complex the understanding of the overall geological controls of ore concentration need to be supplemented.

For the purposes of this program (under the guidelines of appraising the economic status of the operation) information was required to:

1. Determine the overall trend of the Main ore zone to depth and/or

2. Indicate an alternate major ore occurence to the Main zone and/or

3. Determine the geological character of the Morris Summit Fault.

The Morris Summit Fault was drilled in two locations, located and mapped in detail on 3000 Access Adit and reconnoitered on surface. The Fault, which had not been drilled through before, was found to be steeper and deeper than previously postulated. Valuable insights into the role of the Morris Summit Fault in the control of the overall ore trends was realized. In particular there is a preliminary indication that the Main ore zone rather than being truncated by the fault may be raking and rolling into the H.W. down the dip trend of the fault.

Geological analysis indicates two general areas or directions that could contain major ore occurences similar to the Main ore zone in scope. One exploration direction is to the west along the Main vein fault beyond the current limits of westerly drifting. The other is the deep footwall, 12 to 1500 south and parallel to the Main vein fault (i.e. on the south side of the glacier). The testing of both target areas was beyond the scope of this year's program.

J. CONCLUSIONS

Preliminary indications suggest positively that the Scottie Mine has remaining economic potential to expand development tonnages and to outline new ore shoots.

The practical experience gained this year from re-opening the mine, re-habilitating the camp and re-establishing the logistical base (local and/or practical supply sources, available personnel and the resolution of many technical problems curious to the mine's situtation) and the fact that in the face of many unknown factors the program closed on budget provides an invaluable foundation for a more comprehensive program.

D.L. Dick, B.Sc.

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CERTIFICATE

I, Donald L. Dick, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a consulting geologist with an office at #112 - 1235 Nelson Street, Vancouver, B.C.

2. I am a graduate with a Bachelor of Science degree in geology from the University of Saskatchewan (1972).

3. I have practiced my profession for 15 years and have been engaged in the mining industry for approximately 23 years.

4. I have no direct, indirect or contingent interest in the claims described herein.

5. This report dated February 1, 1988 is based on information gathered from working on the property in August of 1987.

D. Dick.

DONALD L. DICK, B.Sc.
Consulting Geologist

APPENDIX

ASSAYING

TECHNIQUE

FIRE ASSAYING METHOD

One assay ton of ore is treated using a litharge - nitre/flour crucible assay. Cupellation, weighing for silver content, parting with a solution of 1:6 nitric acid follows. The resultant bead is annealed and weighed again obtaining gold content in ounces per ton.

DIAMOND DRILL

LOGS

1987

S— [redacted]

- Royal Scot Resources Ltd. 1987

Work Place _____

ASSAY SUMMARY _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Sept/87	1187-681	34029	130.7	131.0	0.045	2.71		
"	"	30	138.4	139.1	0.006	.04		
"	"	31	144.7	144.8	0.012	.06		
"	"	32	152.6	156.6	.007	.06		
"	"	33	157.1	158.8	.009	.09		
"	"	34	158.8	159.2	.014	.60		
"	"	35	159.2	159.7	.010	.90		
"	"	36	159.7	160.5	.005	.07		
"	"	37	160.0	163.0	.006	.07		
"	"	38	163.0	166.9	.007	.55		
"	"	39	167.0	171	.005	.07		
"	"	40	171	175	.004	.03		
"	"	41	175	178.3	.003	.04		
"	"	42	185	185.5	.034	4.30		

D: — Rorac Scot Resources Ltd. Work Place _____

ASSAY SUMMARY _____ 1987 _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Sept 87	U87-682	34106	209	211	.009	.07		
"		34107	130	132.5	.006	<0.01		
"		34108	135.5	137.5	.005	0.01		
	U87-683	34126	26.5	27	.005	<.01		
"		127	76.8	78.3	.004	<.01		
		128	86.0	86.8	.005	<.01		
"		129	110	111	0.671	0.52	•	
		34130	128	130	0.006	<.01		
"	U87-684	34131	10.1	12	0.066	<.01		
		132	12	14	0.014	<.01		
"		133	14	17.5	.006	<.01		
		134	25	27	.069	.03		
"		135	79.4	79.6	.005	<.01		
		136	105	116.5	.053	.56		
	U87-685	34137	389.5	391.2	.009	<0.01		
		138	391.2	393.7	.076	<.01		
		139	393.7	395	.185	.19	•	
		140	395	396.6	.565	.03	•	
		141	396.6	397.5	.115	<.01		
		142	397.5	400.5	.005	<.01		
		143	407	408	.007	.03		
		144	105	116.5	.004	<.01		
		145	117.5	119.3	.005	<.01		

S—

—D:— Rona Scot Resources Ltd. Work Place _____

ASSAY SUMMARY _____ 1987 _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Sept 87	U87-685	34146	232	240	.004	<.01		
		147	240	245	.003	<.01		
		148	259	261.2	.002	<.01		
		149	277	280	.006	.02		
		150	299	301.2	.002	<.01		
	U87-686	151	56	58	.004	<.01		
		152	61	63	.003	.01		
		153	63	65.5	.005	.02		
		154	65.5	68.5	.006	.01		
		155	68.5	70.5	.024	.02		
		156	70.5	72	.004	<.01		
		157	170.5	172	.012	.02		
		158	172	174	.005	.02		
		159	174	176	.026	.07		
		160	186	188	.006	.02		
		161	188	191	.004	<.01		
	U87-687	172	75.2	78	.003	<.01		
		173	95	98	.002	.01		
		174	176.2	176.2	.005	.01		
		175	193	195	.006	.02		
		176	195	198	.007	<.01		
		177	198	202	.005	.02		
		178	202	205	.012	.56		

—By: Ronne Scott
Resources Ltd.
1987

Work Place _____

ASSAY SUMMARY _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Sept/87	1187-681	34179	203	205	.024	.13		
		180	205	208	.016	.01		
	1184-683	162	27	92.8	.004	.02		
		163	145	196	.022	.02		
		164	174	176	.003	<.01		
		165	228.2	229.2	.009	<.01		
		166	225.2	225.5	.014	.11		
		167	229	231	.020	<.01		
		168	231	234	.036	.01		
		169	234	238.5	.071	.01		
		170	238.5	242	.017	<.01		
		171	242	245	.009	<.01		
	1187-689	201	157.5	159.5	3.310	0.28		
		202	154	155	.033	<.01		
		203	160.5	162.5	.035	<.01		
		204	51	52	.004	<.01		
		205	116	117.5	.002	<.01		
		206	181	184	.004	<.01		
		207	184	187	.005	<.01		
		208	188.5	190	.001	<.01		
		209	190	192	.005	<.01		
		210	193	194.6	.002	<.01		
		211	227	229.5	.003	<.01		

D. - Rove Scot Resources Ltd. Work Place _____

ASSAY SUMMARY _____ 1987 _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Sept/87	487-690	34212	139	142	4.453	0.424	•	
"		213	142	144	0.654	0.140	•	
"		214	144	145	0.762	0.042	•	
		215	39	41	0.004	.01		
		216	[illegible]	[illegible]	.003	.01		
		217	[illegible]	152	.004	<.01		
		218	[illegible]	[illegible]	.003	<.01		
		219	134	[illegible]	[illegible]	<.01		
		220	[illegible]	139	.005	<.01		
		221	146	148	.004	<.01		
		222	148	150	.006	<.01		
		223	150	162	.148	.02	•	
		224	[illegible]	154	.041	.23		
	487-691	225	79	82	.010	.16		
		226	109	111	.423	7.05	•	
"		227	115	117.5	.024	.24		
"		228	104	126	.004	.01		
		229	154	157	.004	.06		
		230	157	158	.001	.06		
		231	160.5	161.5	.010	.19		
		232	161.5	165	[illegible]	[illegible]		
"		[illegible]	171	[illegible]	[illegible]	<.01		
		[illegible]	176	120	[illegible]	.01		

S— T. - Kobex Scot Work Place _____

Resources Ltd.

ASSAY SUMMARY _____ 1987 _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Scot/87	1187-691	34235	180	182	.458	.01		
"		236	186	189		.01		
		237	191	193.5		.02		
		238	195	197		.01		
		239	201.5	203		.01		
	1187-692	240	206	208.5		.01		
		241	208.5	210		.02		
		242	210	212		.06		
		243	15	16.5		<.01		
		244	52.5	55.5		.02		
		245	70	74		<.01		
		246	190	192		<.01		
		247	192	195		.01		
		248	195	198		.01		
		249	198	201		.01		
		250				.10		
		251	204	206		<.01		
		252	67	68		<.01		
	1187 693	253	128	130		.01		
		254	174	175		.07		
		255	201	203		<.01		
		256	211	208				
		257	214	216		<.01		

—D.— Rome Slot Resources Ltd. 1987 Work Place _____

ASSAY SUMMARY _____

D·M·Y	LOCATION	SAMPLE NO.	WIDTH		ASSAY		REMARKS	SUMMARY
			Smpl.	Break	Au	Ag		
Sept 87	1187-693	34258	2215	2215	.002	.01		
"		268	227	230	.003	.01		
'		269	230	232	.003	.01		
'		270	232	235	.01	.11		
'		271	235	238	.007	.01		
'		272	238	241				
'		273	241	244	.008	.02		
'		274	244	247	.011	.02		
'		275	247	250	.009	.02		
'		276	250	252	.004	.01		
'	1187-694	259	179	182	.011	.04		
'		260	184	185.5	.009	.02		
'		261	208.5	210	.007	.01		
'		262	213.5	215	.011	.005		
'		263	227.5	229	.008	.03		
'		277	270	272	.015	.03	•	
'		278	272	275	.015	.05	•	
'		279	275	278	.200	.09	•	
'		280	278	281	.006	.01		
'		281	281	284	.005	.01		
'		282	284	287	.014	.09		
'		283	287	291	.012	.01		
'	1187-695	39264	120	123	.009	.03		

D. — Rio Sol Resources Ltd. Work Place

ASSAY SUMMARY 1987

D·M·Y	LOCATION	SAMPLE NO.	WIDTH Smpl.	WIDTH Break	ASSAY Au	ASSAY Ag	REMARKS	SUMMARY
Oct 87	U87-695	34265	223	226	.006	.02		
"		266	251.5	253.5	.007	<.01		
"		267	264	266	.003	<.01		
"	U87-696	34286	7.0	8.6	.004	<.01		
"		287	8.0	9.5	.006	<.01		
"		288	9.5	11.0	.004	<.01		
"	U87-697	34289	7	9.5	.003	<.01		
"		290	16.5	18	.006	<.01		
"		291	104	105.5	.005	<.01		
"		292	110	112	.004	<.01		
"		293	116	117	.005	<.01		
		294	143	144	.004	<.01		
"		295	155	156	.005	<.01		
"		296	156	160	.005	<.01		
		297	160	162.2	.005	<.01		
		298	VOID					
		299	352	354	.003	<.01		
"		300	357	359	.004	<.01		
		301	505.5	506.5	.003	<.01		
		302	542.5	543.5	.005	<.01		
		303	326	326.5	.003	<.01		
		304	617	620	.006	<.01		

-S- -D. - Royal Scot Resources LTD. Work Place

ASSAY SUMMARY 1987

D·M·Y	LOCATION	SAMPLE NO.	WIDTH Smpl.	WIDTH Break	ASSAY Au	ASSAY Ag	REMARKS	SUMMARY
Oct/87	UG7-698	34326	168	171	.003	<.01		
"		327	171	174	.003	<.01		
"		34318	268	271	.007	0.05		
"		319	271	274	.005	0.01		
"		320	274	277	.004	<.01		
"		321	277	280	.004	<.01		
"		322	280	283	.005	<.01		
"		323	285	287.5	.004	<.01		
"		324	287.5	293	.005	<.01		
"		325	297	302	.006	0.01		
"		34328	397	450	.003	<.01		
"		329	405	409.5	.004	<.01		
"		330	VOID					
"		331	472	475	.004	<.01		
"		332	475	478	.005	<.01		
"		333	478	481	.004	<.01		
"		334	485	486	.003	<.01		
"		335	481	483	.003	<.01		
"		336	483	485	.003	<.01		
"		337	266	267	.007	0.02	out of order	
"		338	4325	492	.006	0.01		

ROYAL SCOT

DDH NO. 681

DIAMOND DRILL RECORD

Page 1/____

LOCATION #2 Shaft off 3000 drift

COLLAR	Northing	30+60	REMARKS
	Easting	72+81	
	Elevation	3010'	
DRILLED	Azimuth	182°	
	Dip	0°	
	Depth	402'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept/87	
EQUIPMENT	Machine	BTU2	
	Core Size	BQ	
	Dip Tests	-	

PURPOSE To test : eastward extension of Main Zone and L Zone

RESULTS S 34029 - 34046

GEOLOGIST Rory Macintosh Da·Mo·Yr Sept 10 '87

PRINTED ON CLEAN BOND PAPER

DDH U87-682

Dip 0°

Az. 182°

Length 402'

PLAN VIEW

1" = 40'

50+00N

52+00N

No. 2 SHAFT

90H

U87-682

98+00W

97+00W

96+00W

V - VOLCANO CONGLOMERATE

S - SILICEOUS BANDING

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. U87-(681)

DIAMOND DRILL RECORD ——

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		General - volcanoglom host. m-dk gn. usually matrix supported min clast size ~ 1/8", max size 5" model size ~ 3/4 - 1" subrounded to subangular clasts; qtz + QC veins at 45° to 70° to CA, some veins showing mild shearing. Sx accompanies qtz enrichment 152'-178' Usually mild prop alteration to unaltered in Sx zone									
0	3.5'	volcanoglom - m-dk gn matrix sup. QC veining 70° to core, min chl. alt Sx: py, po in blebs up to 1/4", 1% of rock									
3.5	5	volcanoglom - becomes clast supported, with clasts 0.5" to 4" mostly rounded. Sx infilling between clasts, mainly py, min po, 1% total rock.									
7.9	8	white qtz stringer, rock becomes matrix supported again									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 6981

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
14.9	15'	wh. qtz. w/ fds						
21.5	21.6'	wh qtz w/ fds vein ⊥ to core. min chl alt						
23.9	25.7'	wh. qtz. w/ fds vein chl. alt. 5x blebs 1/4"						
		+ the stringers 1/8"; some shearing w/						
		elongated wall rock frags in shear						
57.4	59.5'	qz stringer 45° to core w/ dissem 5x						
		25% of stringer						
69.1	69.2'	qtz shear, 45° to core. 5x blebs up to						
		1/4" make up 25% of shear.						
	72.8	qtz shear 2", wall rock frags in min						
		brecciation aligned parallel to shear						
		min. chl. alt. minor 5x						
75.9	80.5	strong chl. alt.; rock colour lt. green;						
		clast bodys obscured by alt; pore						
		spaces appear filled w/ qtz + 5x						
80.5	80.7	highly altered zone w/ bleached clasts;						
		matrix replaced by qtz w/ min fds						
		+ 5x in 1/8" blebs + fine stringers.						
81.4	81.5	qtz shear w/ bl-gn chl.; strong						
		chl. alt. w/ 5x blebs + stringers.						
82	82.6	shear zone perp. to core; frags						
		obscured by strong alteration textures						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 681

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		cf chert fracs aligned w/ shear;						
		chl: 15% qtz 15% Sx in blebs +						
		stringers aligned w/ shear.						
82.6	83	mod. prop. alt chert bodies dev'd						
		blebs up to 1½" sheary, chloritization						
83	88	mild prop. alt.						
88	90.4	unaltered rocks						
93.6	94.5	shear zone w/ chl. alt. + bleaching						
		of fracs; 5x blebs in qtz at 90°						
96.5	98	mod prop alt.; chert bodies bleached						
101.5	103	broken core						
117.9	118	minor fracs; min chl. alt.						
120	122	mild prop alt.; chert bodies bleached						
	122.1	qtz vein w/ bl chl + mod chlor alt;						
		5x blebs + stringers						
128	130.7	mod. prop. alt.; chert bodies sheared						
		local mafic mins locally concentrated						
		cores 5x stringers near qtz vein alt						
130.7	131	qtz vein sheared while sheary red			34029	.3'	.015	0.71
		alt in fracs, chloride blebs + stringers						
		hematite 10% in stringers near vein						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 6081

DIAMOND DRILL RECORD

DISTANCES		DESCRIPTION	Sx			SAMPLE		ASSAYS	
From	To		Py	Po		Number	Width	Au	Ag
139.5	144.1'	qtz enriched zone w/ chl. alt. + 5% stringers				34030	.6'	.026	.04
144.7	144.8	qtz vein w/ bl + anch chl. py, po bleached				34031	.1'	.012	.06
		stringers; hematite stringers							
144.8	152.6	mild prop alt. to unaltered							
152.6	156.6	qtz enriched zone, locally fractured				34032	4'	.007	.06
		unaltered to mildly prop. altered w/							
		bleached clasts py, po infilling							
		between clasts + in fracs (10% of rock)							
156.6	156.8	qtz vein brecciated unaltered w/ min" x							
157.1	158.8	qtz enrich. zone, weakly brecciated altered				34033	1.7'	.001	.03
		bleached, sheared and frac clasts 5%							
		frac-filling along sheared areas and							
		infilling between clasts; clasts, dotte							
		along shears + distorted; py, po upto 15% of							
158.8	159.2	qtz vein, white fragmented w/ blebs of 5% +				34034	.4'	.014	.60
		stringers in fracs							
159.2	159.7	qtz-enrich. zone similar 157.1-158.8; some				34035	.5'	.01	.9
		oxidation of sulphides							
159.7	160.5	qtz vein, wh + gy, fragmented (upto 1/2")				34036	.8'	.005	.07
		fracs, strongly altered + sheared							
160	160.3	qtz-enrich. zone, sheared as for 157.6-158.				34037	3'	.006	.07
160.3	160.9	qtz veins upto 2" some hematite clasts				34038	3.9'	.007	.55

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 681

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
167	171 }	unaltered to weakly altered locally,			340339	4'	.005	.07
171	175 }	mildly sheared, min qtz veins (5%) clasts			340340	4'	.004	.03
175	178.3 }	unaltered to slightly deformed local			340341	3.3'	.005	.04
		chl. ; py+po qtz veins along fract. +						
		infilling between clasts (5x 10-15%)						
195	185.5	qtz enrich. ; sheared, chl. + py+po all, 5x			340342	.5'	.024	4.3
		; py, po, asp (5-10%), hematite 10%; total						
		5x ~ 25% 5x in blebs up to ¼"						
185.5	204.5	Volcanoclastic ; unaltered to mild sericitic						
		alt; qtz veins up to 1" perp. to core w/						
		py, po he make up <5% of rock <5% 5x						
		infilling between clasts.						
201.5	206	qtz enrich. zone sheared (60° to core			340343	1.5	.016	.51
		axis clasts recrystal, elongated double						
		5x: py. po + hem.						
206	227	Volcanoclastic - unaltered occ. qtz						
		veins up to 1" w/ mild local chl alt;						
		py+po in blebs + disseminated throughout						
		<5% of total rock						
227	228.1	qtz-enrich. vein w/ po+hem			340344	1.1	.15	.05
228	234	unaltered						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 081

Page 7/9

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
234	235	qtz vein, wh. w/ min bl. + gn chlor									
		2" across, 20° to core axis, no Sx									
235	239	unaltered volcanoglom									
239	239.2	qtz. vein, white, bl. + gn chl; py, po									
239.2	245.2	unaltered volcanoglom									
245.2	245.5	qtz vein perp to core, fds; bl. + gn					34045	.3'	.004	.01	
		chl.; sulphide in adjacent wall rx for									
		1" talcy-fault gouge?									
245.5	256	mild prop. alt.; clast boundaries									
		obscured possibly									
256	257	broken core									
257	258.5	strong prop. alt.; no clasts visible									
		rock, uniform dk. gn, homogeneous									
		w/ min. Sx blebs									
258.5	284.9	volcanoglom; unaltered to weakly alt.									
		locally siliceous, minor local qtz chl									
		Sx disem or blebs, <1% total Sx									
284.9	285	qtz vein; white w/ minor gn chl. + fds									
		minor wall rock breccia, no Sx									
		45° to core axis									
285	301	volcanoglom; unaltered to weakly									
		alt. locally siliceous, w/ qtz/fds veins									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 681

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
301	306.5	mod. prop. alt.; clasts bodies observed						
		2" qtz. vein at 305'						
306.5	307.5	qtz vein with wall rock frags.			340416	1'	.004	.01
		chloritized; v. min. dissem Sx, bl + gn.						
		chl. soft crumbly fault						
307.5	313.5	volcanoclastic; mildly alt., slightly						
		bleached clasts defined w/ Sx in						
		blebs + stringers between clasts.						
313.5	314.5	Core broken and missing.						
315	326	volcanoclastic; unaltered to mildly alt.						
326	355	unaltered to mildly alt; minor dissem						
		Sx qtz veining up to 1" at 45° (10% of						
		rock); core badly broken.						
355	357.8	mildly alt., occas qtz stringers w/						
		chl. alt. + Sx.						
357.5	383.5	moderately alt. clasts obscured						
		min qtz veining at 45° to CA						
		dissem Sx						
383.5	384	Silicia enriched, strongly altered						
		bl + gn chl. 20% Sx						
384	400	mildly alt. dissem Sx; clasts obscured						
		recorded.						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. L0851

DIAMOND DRILL RECORD

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DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
400	402	Silica enriched, steadily altered									
		bl+gn chl. 20% Sx, hem.									
		EOH 402'									

ROYAL SCOT

DDH NO. 82

DIAMOND DRILL RECORD

Page 1 / 6

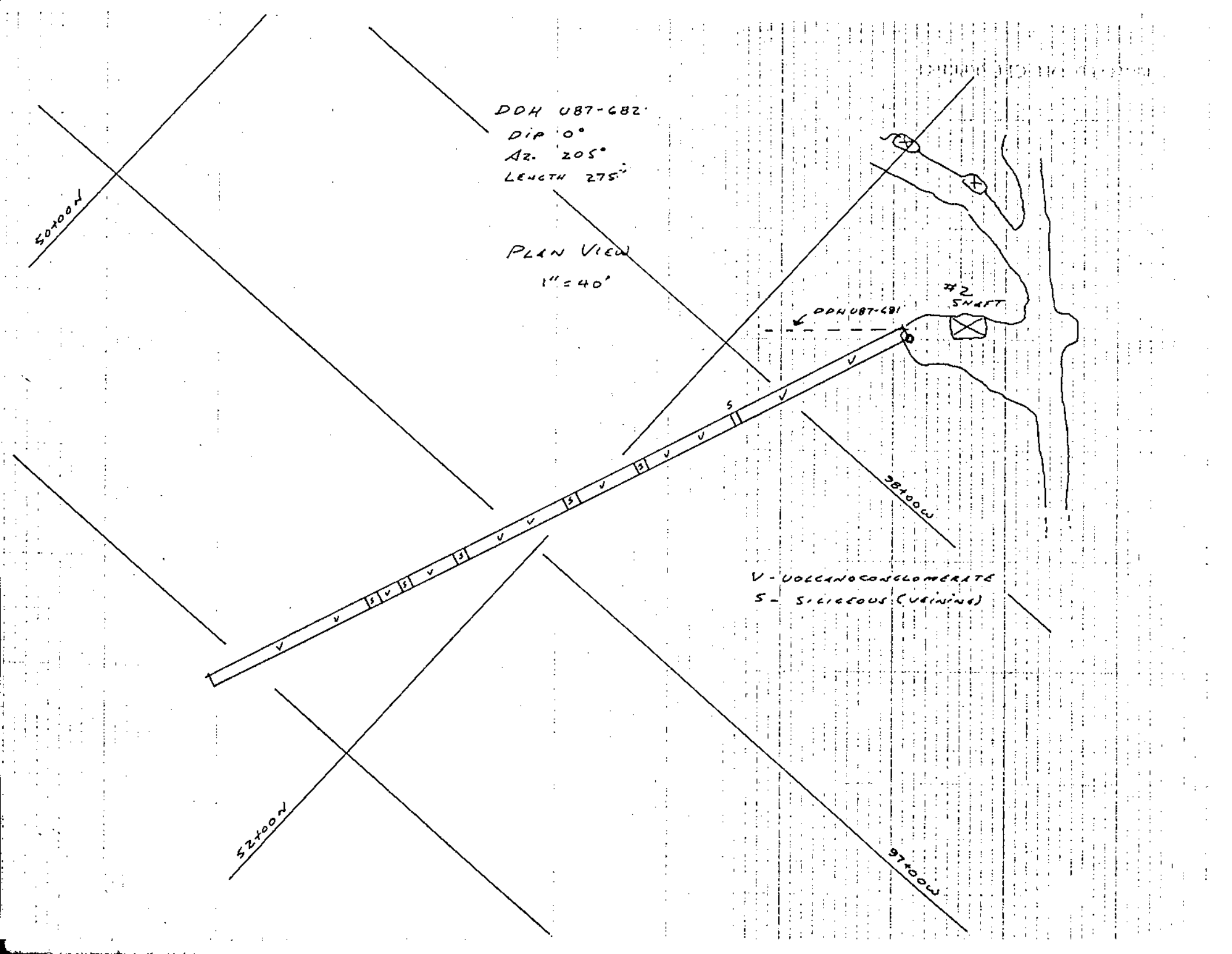
LOCATION 3000 level #2 shaft

COLLAR	Northing	52+46 N	REMARKS Samples Au Ag/width
	Easting	98+45 W	34101 - 34109
	Elevation	3004'	
DRILLED	Azimuth	205°	
	Dip	0°	
	Depth	275'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept 16/87	
EQUIPMENT	Machine	BRU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To delineate eastern extent of the main and L zones on 3000 level

RESULTS Best assay 34105 Au 0.011, Ag 0.20
196-198' width 2'

GEOLOGIST Jo Larkin Da·Mo·Yr Sept 17/87


DDH U87-682
DIP 0°
Az. 205°
LENGTH 275'
PLAN VIEW
1" = 40'
50+00N
#2 SHAFT
DDH U87-681
38+00W
V - VOLCANOCONGLOMERATE
S - SILICEOUS (VEINING)
52+00N
97+00W

ROYAL SCOT

DDH NO. 622

DIAMOND DRILL RECORD

Page 1 / 6

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	18	Volcanoglomerate – mod alt'd, light green fragms to up to 4" generally about ½ to 1" mild prop alteration, few QC stringers, minor disseminated Sx mainly fg, minor green chlorite 1" thick quartz-feldspar vein ¼-½" thick chlorite blebs minor Py						
18	18.3	banded siliceous core, blebs of fg dk, Py, Po weak prop alt						
18.3	20	broken core, mod siliceous, erratic QC stringers mild prop alt						
20	22	Py blebs + stringers up to ½" thick, mild to mod alt'd few QC stringers, minor chlorite						
22	23	broken core, erratic x-cutting stringers Sx blebs, mild prop alt						
23	29	mild-mod prop alt, erratic Q-stringers, few Py blebs						
29	30	broken core						
30	31	strongly prop alt, banded siliceous with green chlorite, 10% Sx						
31	39	mild-mod alt, minor disseminated Sx, erratic Q stringers						
39	40	1" Q vein 30° CA, Py chlorite blebs and minor Py						
40	42	mod strong alt, 5% talky blebs, Py, chlorite Py Po						

ROYAL SCOT

DDH NO. 682

DIAMOND DRILL RECORD

Page 2 / 6

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
42	45	2" thick quartz vein, 10% Sx blebs & stringers mod strong prop alt									
45	67.5	mod-weak prop alteration, minor disem Sx, few erratic Q stringers, few Q veins up to 1" thick 45-60° to CA with associated bl chlorite & minor Sx blebs									
67.5	68	strong alt, banded rocky Q vein, 20% Sx stringers filling fractures					34101	1'	0.007	0.35	
68	68.5	mod prop alt minor Sx									
68.5	69.5	banded siliceous core, Sx blebs up to ¼", stringers prop alt									
69.5	78	mod-mod prop alt, few Q stringers, minor disem Sx									
78	79	strong prop alt, siliceous matrix, minor Sx									
79	83	mod-strong alt, few Q stringers with associated Sx stringers <5%									
83	85.5	strong prop alt. 1" thick Q vein 45° to CA with Sx blebs and stringers up to ½" thick, banded siliceous core with smoky quartz, 15% Sx.									
85.5	88.5	mod-strong alt minor Sx									
89.5	90	strong alt, banded siliceous core, 10% Sx stringers									
90	91	broken core, bl chlorite blebs in gouge fractures mod alt									

ROYAL SCOT

DDH NO. 682

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
91	96	mod alt, occ. vn Sx, few Q stringers									
96	96.5	light green strongly chloritic, Po + bl chlorite blebs									
96.5	104	mod - strong alt, zones of brecciated core at 97-104, 103-104, mod siliceous matrix, <5% Sx and bl. chlorite blebs									
104	106	strong alt banded siliceous core, Q veins up to ½" thick 90° to CA, 20% Sx					34102	4.3	0.006	0.01	
106	109	strong alt, 3' core ½" quartz vein // to CA interwoven with Po stringers (40% of Q vein)									
109	113.5	strong alt, siliceous core 10-20% Po, bl chlorite, occ. 3" thick quartz vein, 45° CA, bl green chlorite mimos Sx									
	114.5	bl chlorite filled shear // thick									
114.5	118	mod alt, few Q stringers minor disseminated Sx									
119	120	intensely alt siliceous brecciated core. 50% Po/Py, minor bl chlorite					34103	1.5'	0.007	0.01	
120	124	mod - strong alt, sporadic Q stringers, minor Sx									
124	124.5	bl chlorite / Po filled shear 45° to CA									
124.5	151	mod altered, few Q stringers, minor Sx					34108	2.5	0.005	0.01	
		some broken core 126-127, 3, ¼" thick stringers at 145' 45° CA		34	107		(130-132.5)		0.006	0.01	
151	152	Po / bl chlorite filled shear, strong alt									

ROYAL SCOT

DDH NO. ____

DIAMOND DRILL RECORD ___

DISTANCES		DESCRIPTION	Sx			SAMPLE		ASSAYS		
From	To		Py	Po		Number	Width	Au	Ag	
152	156	mod alt, few stringers, minor Sx								
156	157	banded siliceous gtzite, strong alt, bcg bl chlorite blebs, Po stringers <10%								
157	162.5	mod-strong alt, few 1" thick Q veins 90° CA, gen/ll chlorite, minor Sx, 2" banded siliceous shear, bl chlorite & Po blebs at 162.5								
163	168	mod alt, few stringers, 1" thick Q veins minor Sx								
169	171	strong alt, siliceous, minor Py, Sx								
171	176.5	broken core, mod alt, minor Sx								
176.5	178	moderate alt, very siliceous banded core stringers of Po ¼" to CA 30° alteration				34104	1'	0.005	<0.01	
178	193.5	broken/blocky core minor Sx & bl chlorite mod alt								
194	199.5	strong alt, 30% Sx blebs & bl chlorite banded siliceous matrix				34105 (196-198)	2'	0.011	0.20	
199.5	201	strong alt, banded siliceous matrix, minor Sx								
201	209	strongly alt siliceous matrix, Q+Po stringers 80° CA <10% Sx								
209	213.5	strong alt banded siliceous vein; Po blebs up to ½", 10-50%, minor bl chlorite				34106	2'	0.004	0.07	
213.5	214.3	mod strong alt, few Po blebs								
214.3	214.75	banded siliceous core, 10% Po stringers/blebs								
214.75	216	mod-strong alt, minor Po stringers								

ROYAL SCOT

DDH NO. ____

DIAMOND DRILL RECORD ____

Page 5 / 6

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
216	216.75	strong alt, banded quartz, minor disseminated Po						
216.75	217	mod alt no Sx / Q						
217	217.5	smoky banded Q veins 45° CA, disseminated Po blebs / stringers 10%						
217.5	220	mod alt minor Po						
220	221	banded siliceous core, Sx 20%, minor bl chlorite	bl chl					
221	229.5	mild - mod alt, some broken core minor Sx	Sx					
229.5	232.5	strong alt banded Q 30% Sx minor Sx						
232.5	235.25	mod alt, mod siliceous well core banding minor Sx / bl chlorite						
235.25	236.25	strong alt, banded siliceous core, numerous Q veins (10-15% Sx)						
236.25	252	mod alt, minor Sx, few Q stringers						
252	252.3	banded siliceous core / Q - occ ¼" Q blebs 30% Sx, bl chlorite blebs						
252.3	253.5	mild alt						
253.5	255	mod alt siliceous core, Mild ch. blebs, Sx blebs up to ¼" 10-20%						
255	257	dark grey silty matrix, no Sx, green flecks in matrix						
257	261.5	mild - mod alt, few Q ½" bands, minor Sx / chl	chl					
261.5	262.5	strong alt, mod sil. 10% Po thru core, green bl chlorite	bl chl					

ROYAL SCOT

DDH NO. _____

DIAMOND DRILL RECORD ___

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DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
262.5	263	str alt, strongly siliceous, 20% Po blebs, smoky Q, grn/lt chlorite									
263	271	mild - mod alt, broken/blocky core, minor & few Q stringers									
271	272	mod - str alt siliceous core 30% Q-stringers 2" clear white Q vein // to CA, blebs of Bl ch.					34109	1'			
272	276	mild - mod alt, minor Sx, few Q strings									
		EOH 276									

ROYAL SCOT

DDH NO. 683

DIAMOND DRILL RECORD

Page 1 /

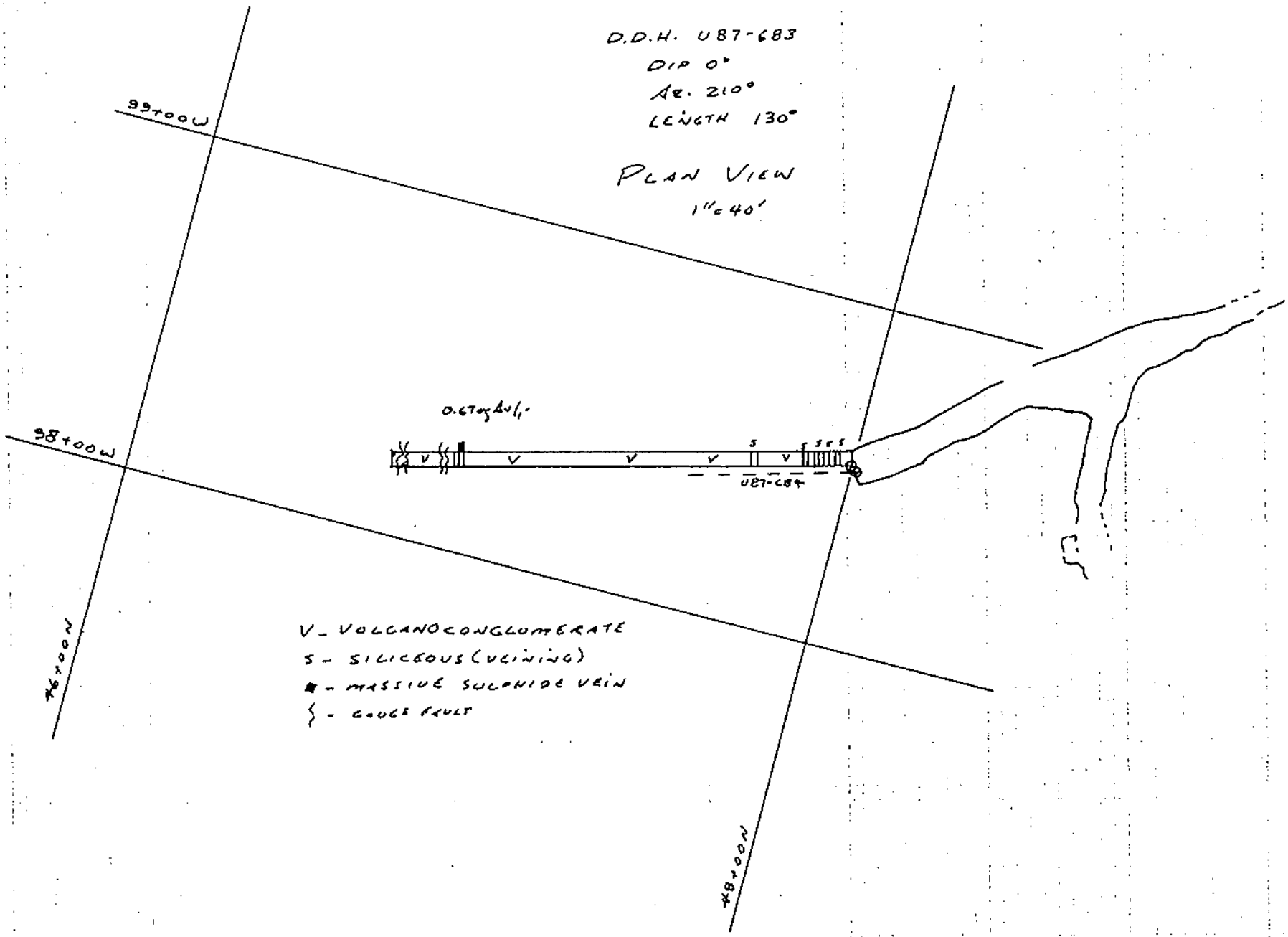
LOCATION 3000 level

COLLAR	Northing	27+55 ~~27+58~~	REMARKS
	Easting	69+62	
	Elevation	30 10	
DRILLED	Azimuth	210°	
	Dip	0°	
	Depth	130'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept 15/87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	-	

PURPOSE To test West extension of 'L' Zone

RESULTS

GEOLOGIST Rory Mackubin Da·Mo·Yr Sept 87


D.D.H. U87-683
DIP 0°
AZ. 210°
LENGTH 130'
PLAN VIEW
1"=40'
99+00W
98+00W
86+00N
88+00N
0.67 oz Au/t
V
S
U87-683
V - VOLCANOCONGLOMERATE
S - SILICEOUS (VEINING)
■ - MASSIVE SULPHIDE VEIN
} - GAUGE FAULT

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 087-03

Page 2/5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		General: volcanic clasts ± lt to dk gn mtx; clasts subangular-rounded w/ qtz veinlets ¼"-1" oriented to stratigraphy, overall of two occurrences over as little as 13'									
		Minor Sx veining at: 0-14, 26.5-27									
		110-111; Sx free veining at: 76.3-78.3, 86-88									
		Faulting: 108-110; 111-115, 126-130									
0	7.8	volcanic clast: lt gn mtx sup. w/ bleached clasts, some local frac. brecciation, clast outlines, oxidized marl prop alt. Sx (marcasite, minor py) 5%; infilling between clasts and in fracs.									
7.8	14	volcanic clast: mottled med lt gn-wh ± bn. silicified, stratal, alt. veinlet qtz veins at irreg angles, 10% po in stringers at 45° to CA and in blebs, minor cpy.									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 683

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
14	40.5	mod. alt., m.gn., locally banded						
26.5	27	clasts, carbonated + outlines bleached			34126	.5	.005	.01
		5x 5% (mostly as mineral stringers)						
		chl. alt. 26.5 27 w/ blue chl						
		clast size increases to 2-3" from						
		34-40' and prop. alt. increasing						
40.5	50	speckled m.gn.+bl.; prop alt						
		increasing form'mod at 40.5' to						
		strong at 50', where clasts no						
		longer distinguishable; speckling						
		(1mm) is black lapilli, angular to						
		rounded; Qtz (<2%) in irreg veins						
		around clasts, 5x <1%						
50	59.4	speckled m.gn. +bl w/ occ. wh.						
		streaks; strong prop alt; clasts						
		only visible where outlines, but						
		infilling qtz veining (<2%), min						
		frac. brecciation (45.4-45.7), w/						
		infilling qtz.						
59.4	76.8	dk gn w/ bl. speckles; mod prop alt						
		w/ blurred +/- bleached clasts;						
		qtz + fds veins 1/8-1½" at 45° to CA						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 683

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		At 70-76.8' - broken core w/ wh.									
		qtz + strong chl. alt. Qtz veins									
		5-10% of rock. no Sx									
76.8	78.3	Qtz fds vein: banded w/ wh. qtz					34127	1.5'			
		cream fds and streaks of									
		speckled gn + bl. highly alt.									
		wall rock. Bands at 45° CA									
		Strong chl + prop alt w/ 5%									
		fds. no Sx									
78.3	86	Volcano clast: as for 59.4-76.8									
86	86.8	Qtz fds vein: as for 76.8-78.3					34128	.8'			
		but banding less distinct; wall									
		rock frags visible in vein, no Sx									
87	88	Qtz fds vein: as above but									
		less qtz, banding becomes									
		poorer in qtz towards 88. no Sx									
88	95	Volcano clast: dk gn w/ lt gn									
		blebs - strong alt. clasts not									
		visible, 1" wh. qtz vein w/ min									
		bl chl. at 93'. no Sx									
95	108	dk gn w/ bl speckles, moderate									
		alt: clasts visible but blurred									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 633

Page 5 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		very min sil banding at 45°						
		to core Rare po stringers, 1/8"						
		thick total Sx << 1%						
108	110	core broken apparently mod						
		alt. at the pres. unit fault						
110	111	dk gn w/ bl. speckles, clasts			31129	1'	.071	.52
		elongate perp to CA, streaked						
		+ banded w/ qtz + bl chl qtz						
		increasing towards 111. po blebs						
		10% minor red mineral present						
111	115	core shattered volcanic clay fault						
115	122	dk gn strongly alt qtz veins 1/4" at						
		30° CA no Sx						
122	126	dk gn w/ bl. speckles, mod alt.						
		minor sphn of qtz. fds vein subpll						
		to CA at 124						
126	130	badly broken core fault zone chl + 10% Sx						
		apparently mod alt. volcanic clay						
129	130				32130	.2'	.004	.01
		130' EOH						

ROYAL SCOT

DDH NO. 684

DIAMOND DRILL RECORD

Page 1/

LOCATION

COLLAR	Northing	27+55	REMARKS
	Easting	69+62	
	Elevation	3010	
DRILLED	Azimuth	210°	
	Dip	-45°	
	Depth	127'	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	-	

PURPOSE To test: Westward extension of 'L' Zone to depth.

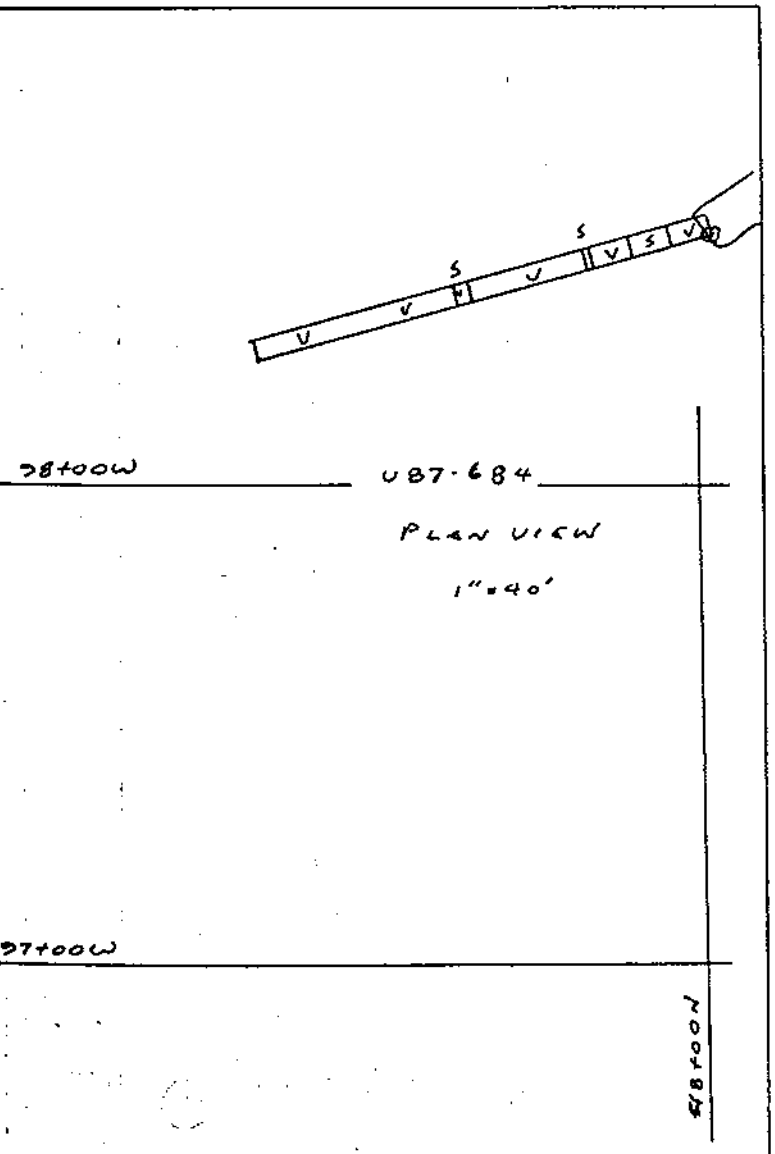
RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr

DD.H. UB7-684
DIP -45°
AZ. 210°
LENGTH 127'

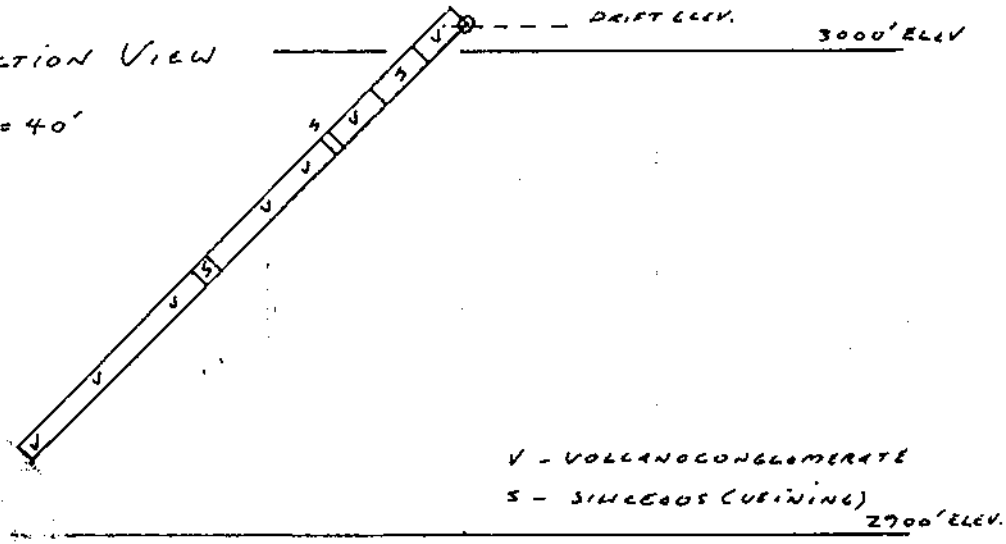
TRUE SECTION VIEW

1" = 40'



PLAN VIEW

1" = 40'



V - VOLCANOCONGLOMERATE
S - SILICEOUS (VEINING)

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. 87-434

Page 2 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	10.1'	Volcanoclast. m. gn; unaltered, clast supported, clasts rounded to sub rounded, 1/8-1" dia. 5% Qtz infilling between clasts, 1% Qtz. Vein: 1/2" 30° CA @ 4'						
10.1	17.5	Volcanoclast. m. gn; mildly altered						
10	12'	clasts locally brecciated Qtz			34131	2'	0.01	0.01
12	14'	disseminated blebs 10% gnp			34132	2'	0.01	0.01
14	17.5	alt. Stronger down hole			34133	2.5	0.01	0.01
17.5	20.5	Volcanoclast: dk gn, strongly altered clasts visible only where outlined by thread of 1% Qtz, some banded bl. Chl ± Sx increase						
20.5	20.6	fracture: crosscut Qtz						
20.6	25	Volcanoclast: as for 17.5-20.5						
25	25	Volcanoclast: m-lt gn w/ 10% blotches						
25	27'	10% bl chl, mod-strongly altered, strongly silicified, 5% Sx			34134	2'	0.01	0.2
35	45.5	Volcanoclast: dk gn. w/ bl speckle strongly altered. 1% Qtz/Cpy veins @ 45° at 42', 45'						
45.5	51'	Volcanoclast. m. gn. mildly altered						

Sample

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 684

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		some bleached clasts; no Sx						
51	52	altered rock: volcanoclastic, gy-gn bands w/ dk gn. min bl. chl.						
		strong hydrothermal alt'n;						
		erased clast outlines + replaced						
		texture w/ banded vnlt clasts						
		visible at edges of this v. strong						
		v. local alteration zone						
52	53.8	volcanoclastic: mildly altered						
53.8	64	volcanoclastic, m.gn. w/ bl sparkle						
		alteration increases from 61.4 to						
		med dk gn mafic bleached matrix; nil Sx						
64	71.5	volcanoclastic mod alt'd; nil/fds						
		stringers + veins at 70-90° CA (x2) to						
		3/4" local areas of strong alt'n (as						
		in 51.-52') at 68-68' nil Sx						
71.5	73.6	volcanoclastic: as 0x prev unit						
		but no qtz stringers or veins						
73.6	73.7	qtz vein: perp. to CA						
73.7	79.4	volcanoclastic: mod [illegible]						
		no qtz veins						
79.4	79.6	Qtz vein: banded w/ chlorite [illegible]			34135	.2'	[illegible]	[illegible]

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 684

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DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
79.6	105	volcanoglom: dk-med gn w/ bl speckles									
		locally weakly silicified, min blebs									
		py, po, <<1%									
105	106.5	vein: banded gn, wh, dk red w/					34136	1.5	.073	.2	
		blebs + stringers 5x (py+po: 25%)									
		Sphalerite ~ 15%.									
106.5	109.4	volcanoglom: strong-med ppalt.									
		occas bleached clasts thin qtz stringers									
109.4	109.5	vein: as for 105-106.5 but v. thin									
109.5	127	volcanoglom: dk-med gn w/ bl									
		speckles strong banding alt clasts									
		obscured or ill defined qtz veins									
		¼-1" at 70° CA occas bleached									
		clasts; disseminated Po or Py < 1%									
		EOH 127'									

ROYAL SCOT

DDH NO. 685

DIAMOND DRILL RECORD

Page 1/____

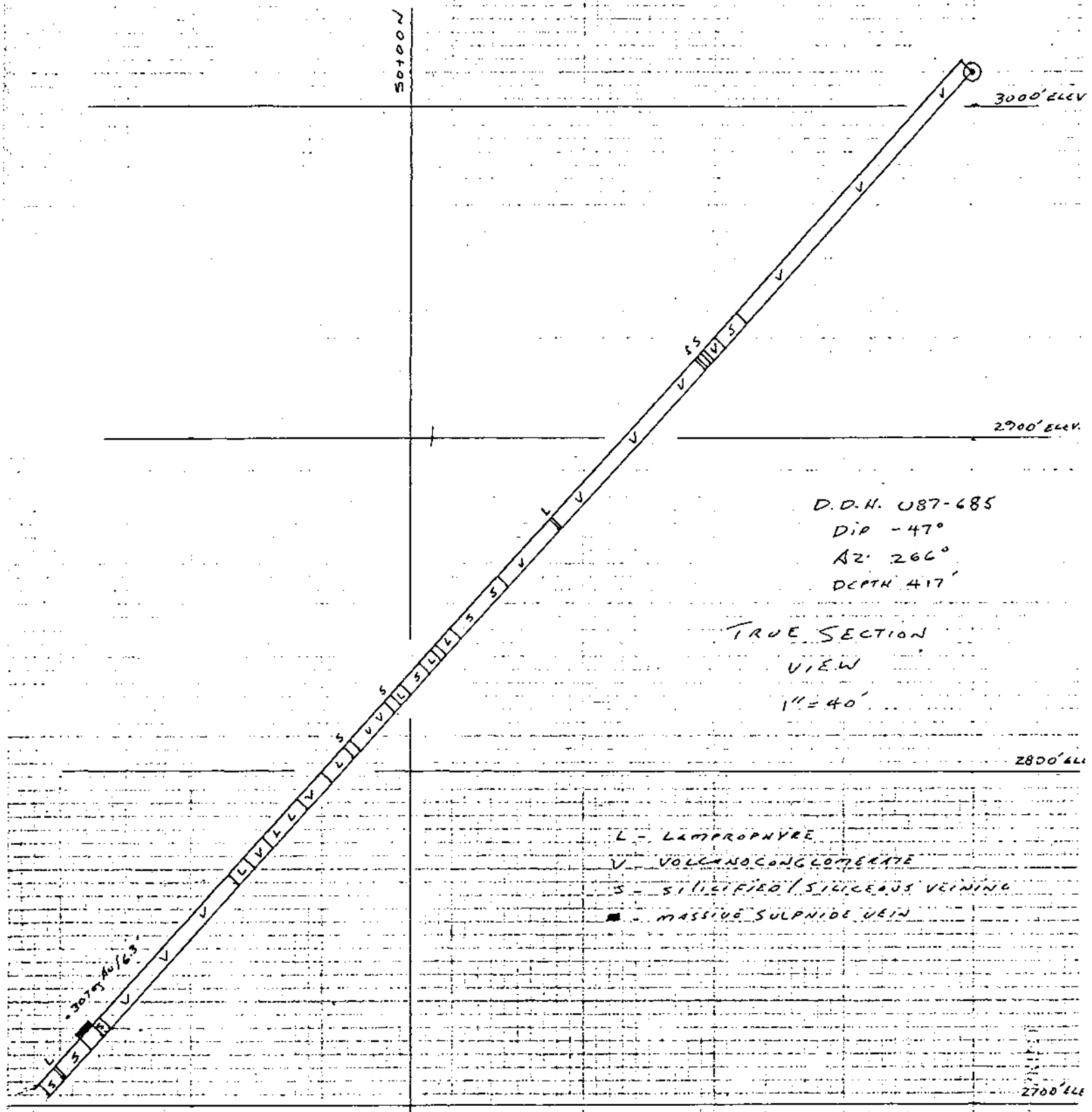
LOCATION 3000 LEVEL - UPPER RAMP

COLLAR	Northing	31+92	REMARKS
	Easting	69+94	
	Elevation	3010	
DRILLED	Azimuth	266°	
	Dip	-47°	
	Depth	417'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept 23, 87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	-	

PURPOSE To test depth extension of West Zone

RESULTS

GEOLOGIST Rory MacIntosh Da·Mo·Yr Sept 23 87


5100N
3000' ELEV
2900' ELEV.
2800' ELE
2700' ELE
D.D.H. U87-685
DIP -47°
AZ. 266°
DEPTH 417'
TRUE SECTION
VIEW
1"=40'
L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED/SILICEOUS VEINING
■ - MASSIVE SULPHIDE VEIN
.307 oz/t Au/6.3'

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 87-68

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General - mainly volcano glom, dk red						
		gy, gn, mod alteration locally						
		silicified w/ qtz veins + breciation						
		around veins. Sulphide mineralization						
		(po) accompanies veining. Highest						
		sulphides (po) 393.7 - 3% (e w/ sericite)						
		brecciated qtz/volcano glom for 1.3'						
		on either side. Intersection angle						
		vary approx 20° CA Other qtz.						
		veins - suggest hole may be drilled						
		down structure making true thickness						
		5x 1.'						
		Spherolitic lamprophyre dykes						
		occur frequently from 238'-417' (run)						
		Dikes poorly mineralized						
0	19'	Volcano glom: m-dk gn w/ wh.						
		streaks + grey mottles, clasts size						
		1/4-2" matrix supported, contained						
		to mildly altered qtz veins, 1/8" to 1"						
		in 2 directions at 30° CA and 70°						
		CA min. bl chl. mafic						
		15-17' - matrix altered + mainly						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 685

DIAMOND DRILL RECORD ——

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		silicified w/ 5% Sx bounded qtz									
		stwb. w/ 5% bl. chl.									
19	50'	volcano clast: m a.con. width,									
		altered: bte. / stwd alt. chlor									
		at 30°CA – 70°CA Rounded									
		brecciated qtz veins. 30°CA at 21'									
		36', 43', 48'. These all contain Sx									
		up to 20% and are probably same									
		veining system. Wall Sx altered									
		up to 1" away from veins. Non qtz									
		Sx have no Sx. Thickness of veins									
		~ 4" - 6"									
50	71'	volcano clast: dk gy on wh. wh.									
		streaks mild - mod alteration mottled									
		dk w/ occ. bleached chert clasts									
		subrounded. Qtz vns 10% w/ alt									
		stringers up to ½" Mineralized									
		stringers as above at 58.2'									
		5 (58.2 - 58.4)									
71	90.2	volcano clast: dk gy on gy w/ rounded									
		altered from unaltered to slightly									
		altered, no Sx 84' - 85' mild									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. 83

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		sintered texture of breccia (¼")						
		of qtz between fgmt - ¼" matrix						
		87-89 mild fgmt brecciation						
		veining - some qtz veins						
		cracking clasts						
91	102'	volcanic breccia dk green mildly						
		altered w/ some brecciation						
		+ alteration around clasts (more						
		alteration beside qtz veins)						
		qtz stringers & qtz veins make						
		up 5% no Sx (abundant qtz						
		veins at 20°CA at 0.5 for 2"						
		5% bl chl 10% no sample						
102	112'	very altered int volcanic ash						
105	107.5'	massive to poss. bedded ash tuff			24/4W	1.5'	.004	.01
		with bn clasts. Pervasive qtz						
		veining, 1-3% Py						
		recrystallized, 1-3% Py						
		(po) as interstitial grains & veins of						
		qtz + chl. Weakly to moderately						
		calcareous rock & bleached pale brown						
		clasts + stringers of qtz + chl						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. ____

Page ____

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
113	117.5	Volcano clast dk green matrix						
		altered to chl + carbonate						
		clasts up to 1cm in size						
117.5	119.3	Vein: calcite + qtz + minor			34145	1.8'	.005	.01
		volcano clast clasts rounded						
		fine qtz + trace pyrite + Mag						
		fine disc ~ 20°CA Sericite						
		to 10% mafics Hairline						
119.3	121	Volcano clast: Hard, chloritic						
		altered clasts, rounded						
121	121.9	Qtz-vein: coarse white						
		bull, minor pyrite bull altered						
		volcano clasts 10% fg cpy						
		is contact at qtz/wallrock						
121.9	133	Volcano clast dk green						
		mod alt, occas 1/4" qtz vein						
		70°CA; qtz eds vein 1/2 70°CA						
		129' no py						
133	167	Volcano clast: dk green walled						
		to mildly alt clasts, angular						
		to rounded, qtz veins at 70°CA						
		make up 20% of rock 1mm						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 88-5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
167	183.5	volcanoclastic dk grey medium bedded to mildly altered ; as above						
183.5	186.5	volcanoclastic m grey as to mild alteration as above						
186.5	187.8	homogeneous dike : dk grey speckled w/ phenos of quartz hbl. plag 1/16" - 1/8" matrix 30% of rock. Case bodies at contacts 11:4						
187.8	210.6	volcanoclastic m grey as above 187.8 - 188.3 contact quartz w/ dike. It as previous described						
210.6	230.9	bx volcanoclastic : lt to med grey, mild alt w/ some bleached clasts, silicified + laced w/ qtz veins w/ dk veinlets + rare (vugs 1/16") 5% (pyrite) or 20°CA						
230.9	233	homo dike : as bx 186.5 - 187.8						
233	240	bx volcanoclastic silicified bx w/ dk veins, vugs as above 230.9 -			34146	2'	.004	.01

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 685

Page 7/10

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
240	245.2	lamp dyke: as before dk			34117	5.2'	.03	.01
		intersection approx 20° CA						
245.2	253.5	bx volcano clam: silicified bx						
		w/ qtz veins as bx 210.6-230.9						
		veining 10-20° CA						
253.5	259	lamp dyke as before intersects						
		angle ~30° Phenocrysts larger up						
		to 1/4" some angular						
259	261.2	bx volcano clam: silicified bx			34148	2.2'	.005	.01
		10% po blebs as bx 210.6-230.9						
261.2	277	volcano clam: m-dk gn mildly						
		alt. not silicified clasts clearly						
		visible on Sx H-S						
277	280	bx volcano clam: sheeted in gn			34149	3'	.006	.02
		wh+ bx. qtz veining alt as bx						
		210.6-230.9 veins 10°CA 10% Sx(ph)						
280	290	lamp dyke: as above little alt						
		w/ bl+wh. mafic minerals						
		recorded plag+ blo phenocrysts 1/8"						
		-1/4" blk hornblend clam						
		concentrated in bands up						
		wide Intersects 20° CA						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 685

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
290	301.8	volcanic clast m gn, bl bio qtz			34150	0.8'	.003	.01
		f.g. bleaches, m alteration						
		silicified, accas bx (3%) lapilli						
		volcanic, bl. on chlor.						
		- interpret 290 - 301.8						
301.8	316	lamp dyke : as for 280 - 290						
		intersect 15° CA						
316	324	volcanic clast m gn, bio, chl.						
		bleaches, silicified, sand - lapilli						
		alt ; some andesitic alt. in bx						
		10% Sx (po), 316 - 318 core is						
		½ this unit ½ lamprophyre dykes						
		0° CA						
324	331	lamp dyke ; as for 280 - 290						
331	359.5	volcanic clast lt gn to lt. m. gn						
		bl. mottled, streaked, lapilli,						
		bio clast, locally in fg. layers						
		strongly chloritized w/ bl. - gn.						
		chlor bl. chlor. over on chlor						
		in core, splotches + bands						
		1% 3-5 mm lapilli in areas of bio						
		chlor ; 5x 5% in volcanic areas						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 685

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DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
2983	[illegible]	[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
2967	2981.5	[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
[illegible]	2981.2	[illegible]					24137	1.7'	[illegible]	[illegible]	
		[illegible]									
		[illegible]									
		[illegible]									
2981.2	[illegible]	[illegible]					24138	2.3'	[illegible]	[illegible]	
		[illegible]									
		[illegible]									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. 685

Page 1 of 10

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		wall rx (pxx) fg w/ chl alt 10%									
		Sx 10% in blebs									
393.7	398.6	Fault zone: alt brn/fgl. core									
292.3	295.2	Sx fine disd mafic + chlor					3d/139	1.3'		.19	
295	299.6	split. Massive (qtz-sericite) w/ 10%					3d/140	1.6'			
		bl. chl. Qtz veins 1-3" in places.									
		Rx intersected @ approx 20° CA									
299.6	299.5	Qtz vein: massive fg Sx bearing w/					3d/141	.9'			
		Smeared chl + wall rx inclusions 25% Sx									
299.5	300.9	volcanic clast: altered + brecciated									
		Hgn chl + qtz matrix w/ 1-2% Sx									
300.5	303.5	dependent on Sx content					3d/142	3'			
		407-408 silicified wall rock					3d/143	1'			
		20° to CA									
403.9	410.9	Immediate wall rock alteration by qtz									
		Hgn mafic alt + veining 10° CA									
		Sx in veins + wall rock									
410.9	411.9	volcanic clast mafic + qtz vein									
		Sparse coarse Sx in vein									
		Irregular qtz + chl veining + Sx									
		10° CA									
		EOH 411.9'									

ROYAL SCOT

DDH NO. 686

DIAMOND DRILL RECORD

Page 1 / 5

LOCATION Run off 3000 level drive to 2900

			REMARKS
COLLAR	Northing	5090	
	Easting	10265	
	Elevation	2981	
DRILLED	Azimuth	255°	
	Dip	-10°	
	Depth	196'	
Da·Mo·Yr	Started		
	Completed		
	Logged	24/9/87	
EQUIPMENT	Machine	RBU 2	
	Core Size	BQ	
	Dip Tests		

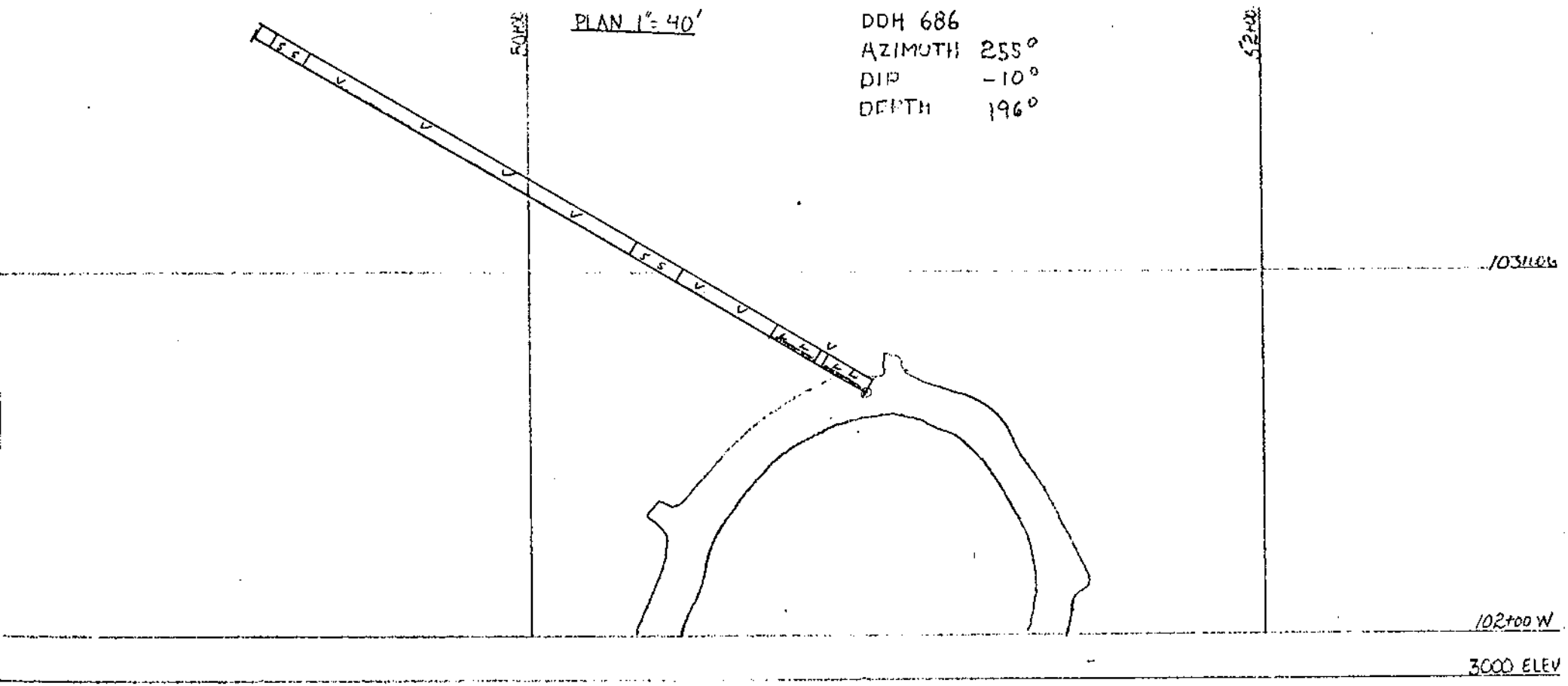
PURPOSE To extend westward the West drift zone by drilling from the 2900 level 70 RMD.

RESULTS

GEOLOGIST [signature] Da·Mo·Yr 24/9/87

PLAN 1"=40'

DDH 686
AZIMUTH 255°
DIP -10°
DEPTH 196°



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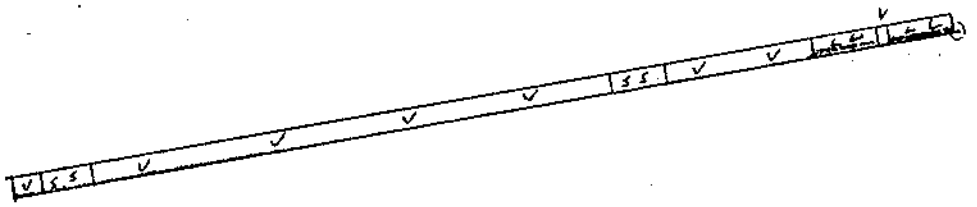

L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED / SILICEOUS (VEINING)

2900 ELEV.

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 087-6836

DIAMOND DRILL RECORD — J Packin

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		General: Azimuth 255°, Dip -10°, length 196' purpose: drillin from 2000 level ramp to north and beneath the west drift zone. Two veins were intersected at 61' and 179' the latter being the stronger of the two, with zones of massive fault and bol chl. The wallrock is a mafic dyke generally with subangular to rounded clasts (3" dia, mild prop alt and chloritic alt. Minor disseminated Sx were noted throughout. The first 30' is characterized by alternating lamprophyre dykes + wallrock. The lamprophyre dykes showed chloritic alt of hornblendic crystals near the first vein intersection where are silicified & sheared bol/qtz chloritic alt + Sx mineralization but - low vert little brecciation									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 6830

DIAMOND DRILL RECORD ____

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	3.5'	lamp dyke: lt m gy, coarsd to						
		elong. blk hornblende crystals						
		rounded wh. feldspar. 2mm dia.						
		no ∥ H:<5						
3.4	4.5'	Volcano clast: dk gy to blk						
		matrix H:>5, rounded to subangular						
		clasts, lt gy, gn, ½-1" dia, minor diss						
		Sx, weak alt						
4.5	11.5'	lamp dyke: m gy, lt gy bleached						
		at 9.6', minor diss Py usually						
		associated with lt gn chl. alt.						
		hornblende + feldspar ∥ to below						
11.5	15'	lamp dyke: m-dk gy, darkening						
		to end 15' v thin fractures 30°						
		diss Py increasing toward vgl						
		contact at 15' coarse 11 CA						
15	18'	lamp-Volcano clast contact: coarse						
		11 CA, marked by lt gn chl. filled						
		frac. lamp-dk gy, minor Sx						
		vgl-dk gy-blk. matrix clasts						
		v abundant ½" thick qtz stringer						
		45° CA w/ Py + bl. chl. blebs						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. 6860

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		diss Py in erratic frac ≃ 30%						
19	19'	lamp dyke: broken core, minor						
		Sx + gn chl.						
19	31.5'	lamp dyke: dk gy hbl-bleached						
		chloritically altered to rock to black						
		H: 2-3, rounded; rounded feldspars						
		as before, no Sx						
31.5	46'	Volcano clast: m gy, matrix, mod prop						
		alt, stockwork of erratic qtz						
		stringers, fe. chl. present						
		obscurable, are weakly altered						
		no Sx						
46	49.75'	Volcano clast: dk gy gn, fe. qtz						
		stringers w/ scattered Py blebs,						
		minor black/gn chl.						
49.75	50.5'	lamp - volcan: contact: 11 CA no Sx						
50.5	52'	Volcano clast: m gy gn, unaltered,						
		large (2" lt gy, black speckled						
		clasts w/ minor diss Sx, zero						
		qtz. stringers, 45° CA						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 6886

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
53	56'	Bx volcanic clast lt gy qtz brecciated matrix with minor erratic qtz stringers w/ scattered Py blebs matrix is mildly - mod silicear.									
56	58'	Bx volcanic clast - qtz vein lt gy strongly brecciated - clasts silicear matrix, clasts are mildly altered, few qtz stringers 10% Py blebs					34151	2'	.004	.01	
58	61'	volcanic clast: m gy heavily fragmented matrix partly clast supported mildly silicear, few qtz stringers, scattered Py blebs minor diss Py scattered bl. chl. blebs.									
61	72'	vein: lt - m gy silicear.									
61	63'	brecciated matrix, Sx 20-40%					34152	2'	.004	.01	
63	66'	bl./gn. chl. alteration at 63'					34153	3'	.005	.02	
66	69'	Sx stringers + alterations					34154	3'	.004	.01	
69	72'	fracture 45° to CA, gn chl. blebs 5-15%					34155	2'	.004	.01	

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 1030

DIAMOND DRILL RECORD

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
72	75'	Volcanoclastic: dk gy gn mod brecciated clasts sub angular - angular, 5x 15% in blebs + stringers, matrix mild mod silic						
75	76'	Banded qtz vein - banding 30° CA, strong gn. chl. alteration, 5x blebs 5%						
76	80'	Volcanoclastic: m gy gn, strong chl. alt qtz feldspar bands 75° CA, minor 5x, occur as blebs mod silic. matrix.						
80	125.5	Volcanoclastic: m-dk gy gn mild pop alt clasts up to 3" dia generally rounded, qtz feld-car bands ≈ 45° CA up to 1" thick scattered throughout every 1-2' minor 5x blebs + bl. chl stringers, occas. qtz stringers approx 3x-5% CA scattered throughout, mild mod chl. alt alt						
125.5	126'	Volcanoclastic; bleached lt gy gn mod chl. alt, bl. chl. blebs						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 1080

Page 7 / 8

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		up to ½" 10% Sx blebs clasts are rounded + mod obscured						
124.5	126.5	Volcanoclam: dk gn/bl matrix large angular-subangular clast fe.,qtz stringers, 5% diss Sx. bleaching to lt gn alt 132 - 134 w/ mod prop alt fe.,Sx.						
137.5	165.5	Core box dumped and sorted together Volcanoclam - mdk gy gn clasts up to 4", sub angular to rounded, minor diss Sx minor chl alt, mild-mod prop alt.						
165.5	177	Volcanoclam: m gn gy fe., clasts sub angular-rounded mod prop alt. mod chl alt 5% bl. chl blebs 1-2% diss sulphides throughout fe.,qtz stringers						
177	179.5	Volcanoclam. mdk gn gy 5% diss em Sx 1' qtz fold jcn 11 CA mod chl. alt bl. chl blebs 15%						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 086

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
179.5	191.5'	Vein - strongly silicified matrix						
		Po/Py 30-40% of core. Strong						
		chl. alt w/ bl. gn chl. 20-30%						
		massive Po at 182.25 - 182.5						
		broken qtz/bl. gn. chl core at						
		181 - 181.75 Sulphides diminishing						
		to 10% 189 - 191.5 strong chl						
		alt. throughout banding 90°CA						
191.5	196'	Volcano clast. lt gn gy - dk gn						
		as distance from vein increases						
		erratic qtz. stringers minor diss						
		Sx, clasts are small mildly						
		obscured, 3" of strong chl. alt.						
		at 195'						
		EOH 196'						

ROYAL SCOT

DDH NO. 687

DIAMOND DRILL RECORD

Page 1 / 5

LOCATION Ramp off 3050 level to 2900 s

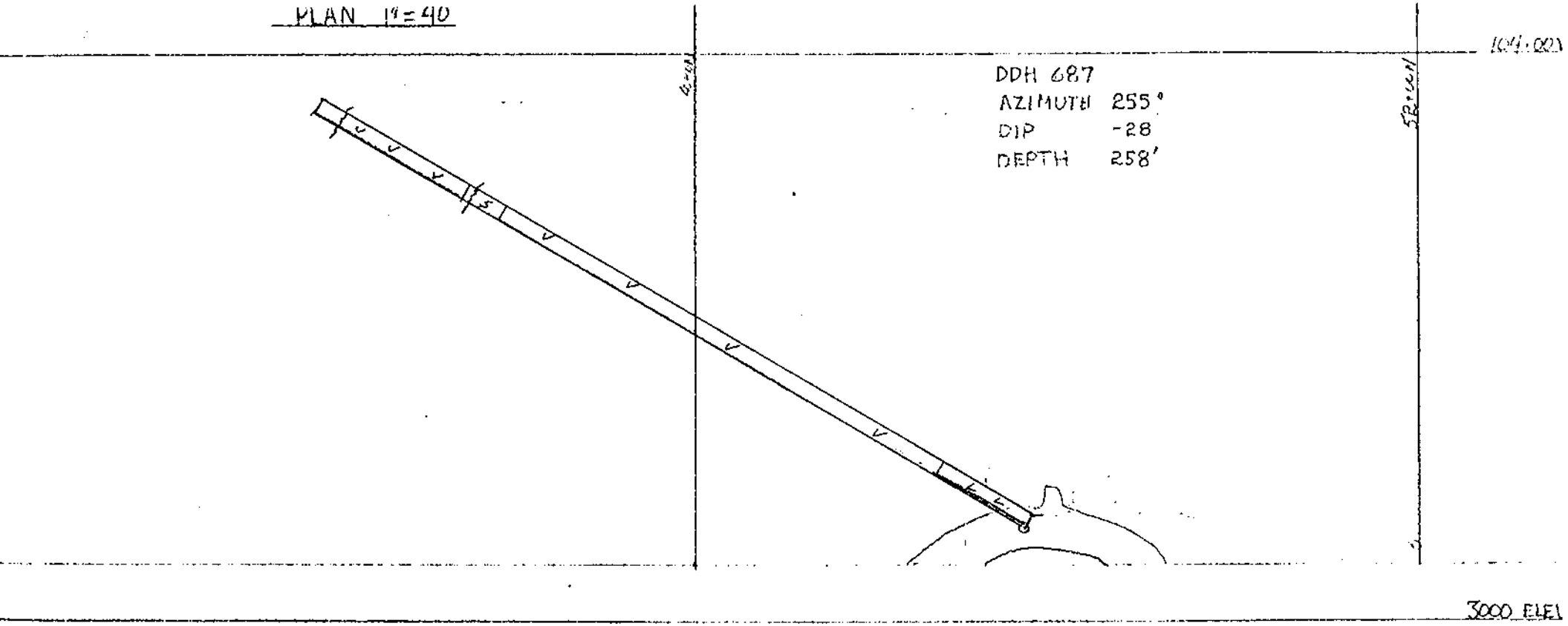
			REMARKS
COLLAR	Northing	5090	
	Easting	10265	
	Elevation	2981	
DRILLED	Azimuth	255	
	Dip	-28	
	Depth	258	
Da·Mo·Yr	Started	Sept 24	
	Completed	25	
	Logged	26	
EQUIPMENT	Machine	BRC 2	
	Core Size	BQ	
	Dip Tests	—	

PURPOSE To test extension to depth of Trace level 1 vein zone.

RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr Sept 27 87

PLAN 1"=40



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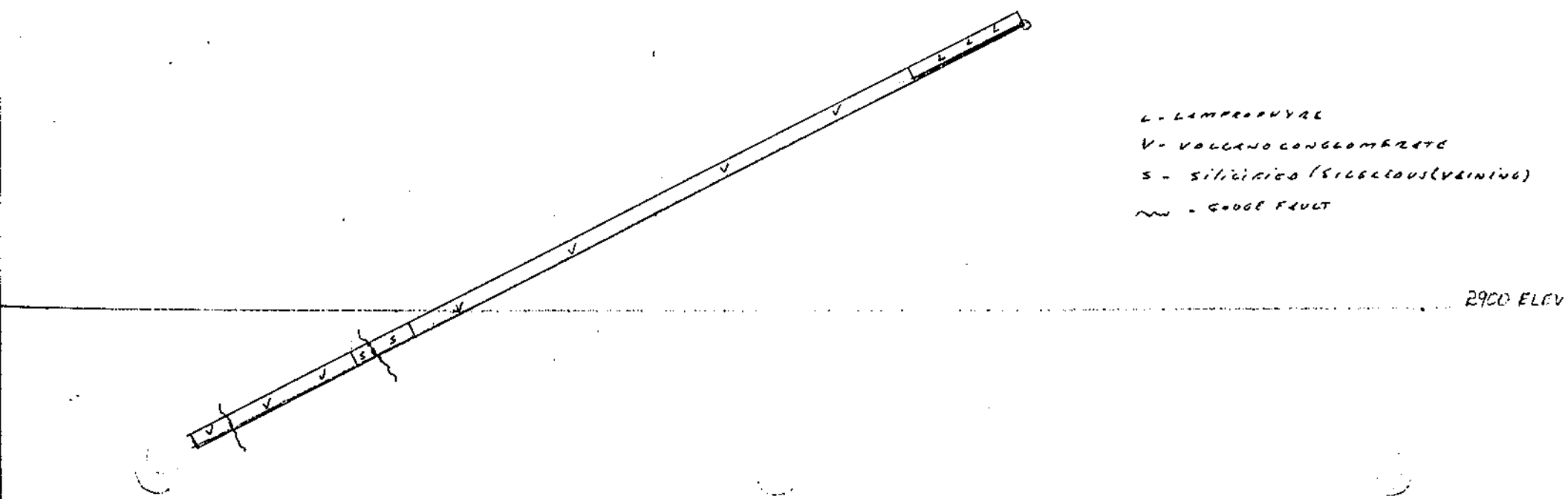

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 84-684

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DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		General logging duke [illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		The hole was abandoned at [illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
0	33	[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
33	[illegible]	[illegible]									
		[illegible]									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 68-4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		[illegible]						
		w/ core lost [illegible]						
		[illegible]						
		55.5 [illegible]						
43.5	98	[illegible]						
98	93	[illegible]			3x1176	2'	.003	.01
		[illegible]						
		[illegible]						
		[illegible]						
98	160	[illegible]						
93	98	chl ser [illegible]			3x1175	2'	.005	.01
		[illegible]						
		90-98 [illegible]						
		[illegible]						
		[illegible]						
160	175	[illegible]						
		[illegible]						
175	[illegible]	[illegible]			3x1174	1.2'	.005	.01
		[illegible]						
		[illegible]						
		[illegible]						
		[illegible]						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 687

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DISTANCES		DESCRIPTION	Sx		SAMPLE		ASSAYS		
From	To		Py	Po	Number	Width	Au	Ag	
190	192	[illegible]							
192	195	[illegible]	3%		[illegible]	3'	.036	.02	
195	198	[illegible]	10%		[illegible]	3'	.014	.01	
198	202	[illegible]	10%		[illegible]	4'	.005	.0	
202	206	[illegible]	3%		[illegible]	1'	.002	.1	
206	208	[illegible]	1%		[illegible]	2'	.054	.13	
208	210	[illegible]	10%		[illegible]	2'	.010	.3	
208	243	Volcaniclastic [illegible]							
		silicified [illegible]							
		obscured by [illegible]							
243	248	Fault Contact [illegible]							
248	254	Volcaniclastic [illegible]							
		as for 208 unit							
254	258	Volcaniclastic as [illegible]							
		HBX							
		EOH 258'							

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL · RECORD

Page 1 / 5

LOCATION Ramp off 3000 level drift to 2900

COLLAR
- Northing 5090
- Easting 10265
- Elevation 2981

DRILLED
- Azimuth 255
- Dip -40°
- Depth 245

Da·Mo·Yr
- Started Sept 23
- Completed Sept 25, 87
- Logged Sept 25, 87

EQUIPMENT
- Machine RBU2
- Core Size BQ
- Dip Tests —

REMARKS

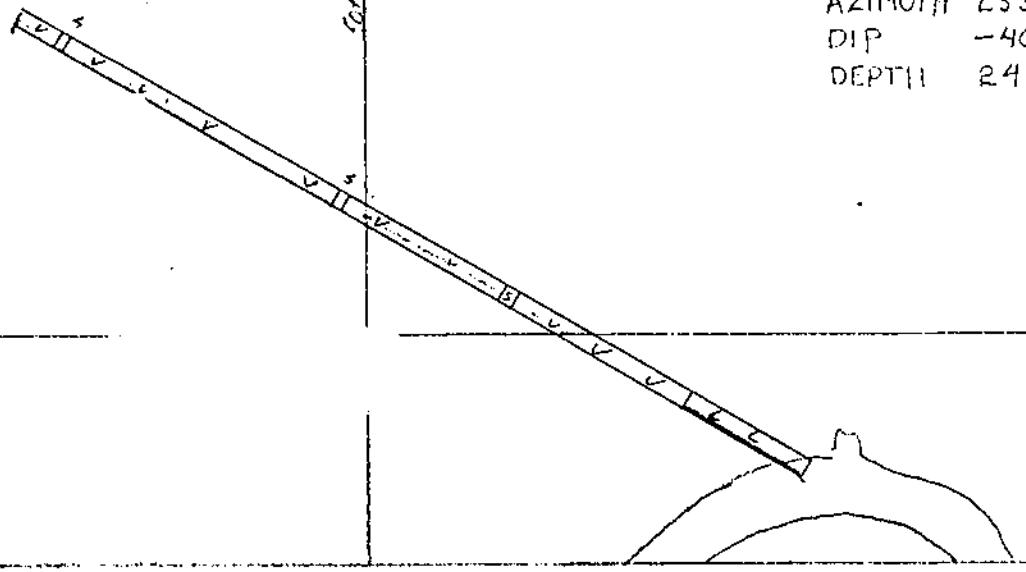
PURPOSE To test depth extension of 11 zone @ 2900 level

RESULTS

GEOLOGIST Rory MacIntosh Da·Mo·Yr Sept 25 87

PLAN 1"=40'

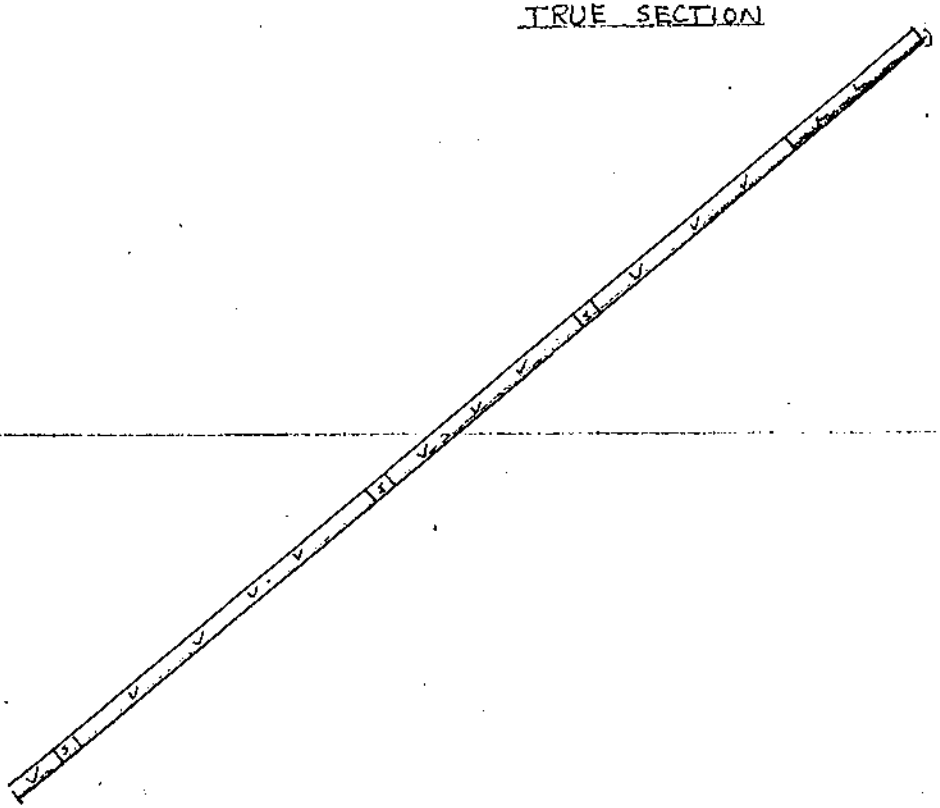
DDH 68
AZIMUTH 255°
DIP −40°
DEPTH 245'



103+00W

3000 ELEV.

TRUE SECTION



298'

L - LAMPROPHYRE
V - VOLCANO CONGLOMERATE
S - SILICEOUS (VEINING)

2900 ELEV

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD ___

Page 2 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx % Py	Sx % Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	2'	Casing						
2'	35'	Lamprophyre dk grey-brn aphanitic intercepts: plag (+ some qtz) phenos 1/8-1/2", rarely showing xtl faces (0.1 - 1 inch); hbl is corroded blades, but acicular cpx/opx? from 5'-13' (5-20% of rock) matrix: dk grey-med grey, aphanitic mostly chloritized. 4'-5' appears to -lose alt; no alt 5'-13'	-	-				
35	57	Volcaniclastic lt gy-grn, 2-4.5 highly altered & qtz + Ox veinlets at 45° and 70° (at 54). Less intensely = + qtz stockwork 54'-55' Lo fr lamprophyre intervals 69.5 lamp dike + lots of lots above	1%	1%				
57	90.8	Quartz vein white 2-7 massive Soft white qtz + Hbl + ... inclusions of ... altered ...	10	5	53415	3.8'	.001	.02

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

Page 3 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx% Py	Sx% Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
90.8	124.7	Volcaniclastic H: 5 [illegible] mild wkly locally strong, clay? closely visible c/ [illegible] 10.3-10.3 [illegible] chlor alt. qtz + qc stringers (5%) at 45° CA. Flesh qcc. contain 2 [illegible]						
124.7	141.5	Volcaniclastic H: 4-6 [illegible] mottled silicified + chloritized c/ strong prop. alt., clasts obscured, and grained to [illegible] silicified areas. 1-2% Sx (pyr+po in equal parts) throughout [illegible]	1	1				
141.5	145	Volcaniclastic H: 5 [illegible] mild prop alt -- [illegible]						
[illegible]	146	Qtz vein H: ? calc. c [illegible] stringers + lt. cld.			S34103	1'	.09	.02
146	149	Volcaniclastic [illegible] 10.3 - 147						

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

Page 4 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx% Py	Sx% Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
145	165	Volcanoclastic H:5.5-7, m gy gk wood frag. aft w/ chloritized clasts and silicification: frac bx i fibrous qtz + qtz/fds stringers at 45° CA. 5% Sx (po+py) blebs + stringers 145-151 qtz veining + frac bx sub // to CA 154-155 qtz veining as 145-151						
165	229.5	Volcaniclastic, highly altered m-lt gy, mottled. H:6. silicified + bleached clasts + matx. Heavy bl/gk chlor + late qtz/fds veins. 5% Sx (py+po) 5% in blebs + stringers. Tuffaceous. From 228.2-229.0 : 174-176			5-1166	2.9	.014	.11
					5-1167	1	.003	1.01
					5-1168	1	.009	1.01
229.0	231	Qtz vein. H:7 chlorite w/ sheets bl chlor + 15% Sx (po+py). Intense angle: 20° CA	.5	10	34167	2'	.02	1.01

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

Page 5 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
231	238.5	Volcaniclastic: highly altered pyritized silicified + bxd Rock fabric Hydrothermal breccia ~ Brecciation 1% (1.5%) pervasive						
		231 - 234			34168	3'	.036	.01
		234 238.5			34169	4.5'	.071	.01
238.5	245	Volcaniclastic, as above, with						
		238.5 - 245			34170	3.5'	.017	<.01
		245			34171	3'	.009	<.01
		EOH						

ROYAL SCOT

DDH NO. 689

DIAMOND DRILL RECORD

Page 1 / 6

LOCATION _____

			REMARKS
COLLAR	Northing	50+80N	
	Easting	102+70W	
	Elevation	2981	
DRILLED	Azimuth	238°	
	Dip	-30°	
	Depth	322'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept 26/87	
EQUIPMENT	Machine	BB02	
	Core Size	BQ	
	Dip Tests		

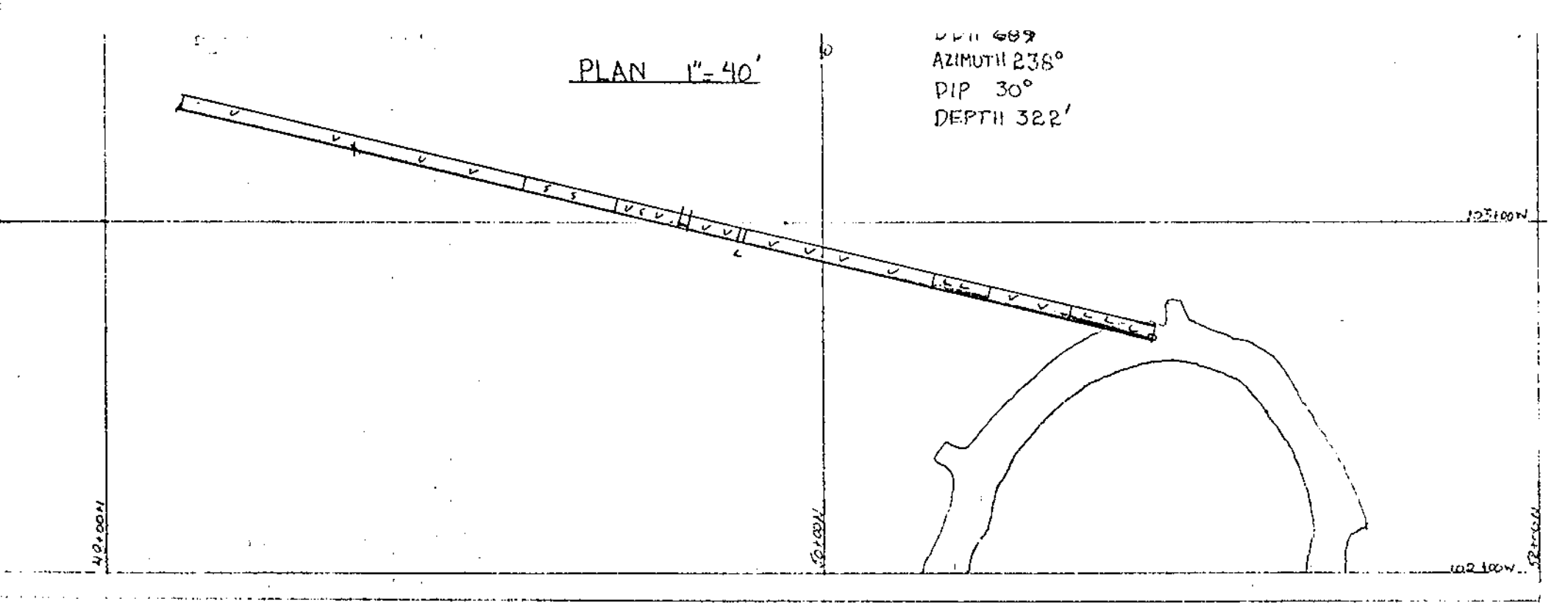
PURPOSE To extend and block out westward the west drift ore zone

RESULTS

GEOLOGIST _____ Da·Mo·Yr 26/09/87

DEPTH 689
AZIMUTH 238°
DIP 30°
DEPTH 322'

PLAN 1"=40'



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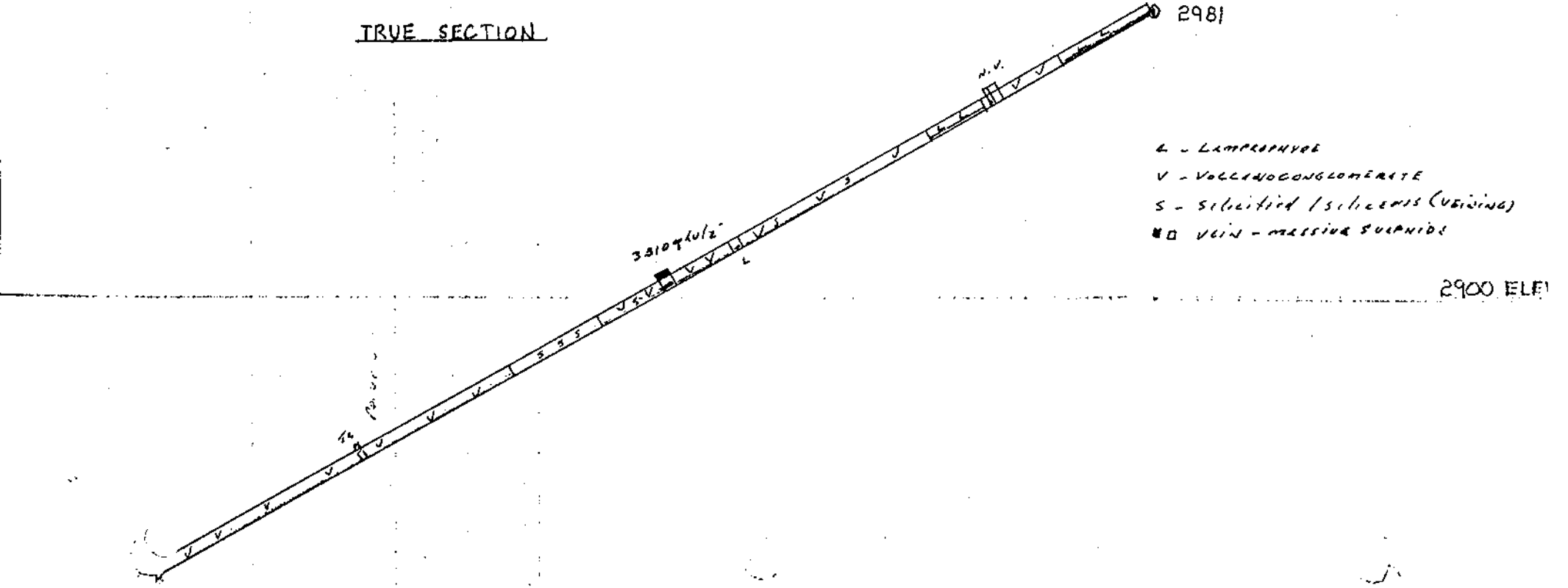

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. [illegible]

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
0	30	(illegible)									
		(illegible)									
		(illegible)									
		(illegible)									
30	31	(illegible)									
		(illegible)									
		(illegible)									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 689

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DISTANCES		DESCRIPTION	Sx			SAMPLE		ASSAYS		
From	To		Py	Po		Number	Width	Au	Ag	
		Sx H [illegible]								
		bedded [illegible]								
51	53	Q vein bounded [illegible]				3[illegible]4	1'	[illegible]	[illegible]	
		Sx 10% [illegible]								
		[illegible]								
53	[illegible]	[illegible]								
		[illegible]								
		[illegible]								
[illegible]	54	Volcanoclastic [illegible]								
		[illegible]								
		[illegible]								
54	72.5	[illegible]								
[illegible]	[illegible]	[illegible]								
		[illegible]								
		[illegible]								
72.5	78	Volcanoclastic [illegible]								
		[illegible]								
		[illegible]								
		[illegible]								
		[illegible]								
78	82.5'	[illegible]								
		[illegible]								

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 689

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		Sub rounded to LCA to mod. fine						
		U. to CA 5-10%						
9.5	110	Volcaniclastic dk grey mod comp						
		ml. to 10% clasts to 1"						
		Hornblende Bio ph. to 1 mm mod						
		L. to CA - local mod to well						
		101-10' 5-10% hornblende ph						
		wide to 111' increasing # of clasts						
		Sub rounded to sub angular 110-115'						
110	117.5	Vein: siltstone graphitic ml. Strongly			34205	1.5'	.005	.01
		siliceous mod to well, 5-10%						
		Hematite color						
117.5	118	Volcaniclastic mod comp, clast supp						
		clasts to 1" 10%						
118	123.5	Volcaniclastic Hematite color supp						
		ml. mod ml. all mod well comp						
		erratic 5% clasts to 1" local 10%						
		bl. chl 10%						
123.5	125.5	volcaniclastic dk grn mod comp						
		ml. to sub rounded mod. clasts						
		rounded clasts to 2" mod 5%						
125.5	125	Lamp dyke ? fine grained dk grey						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 689

Page 5 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		speckles of blebby [illegible]						
		on either side						
153	154.5	[illegible]						
154	155	pop/chl alt [illegible]			34203	1'	.03	.01
		blocky fractured [illegible]						
		[illegible]						
		bottom core mix [illegible]						
		5-10% [illegible]						
		156 - 157						
157.5	159.5	vein: massive, po, pods of chl. 2"			34201	2'	3.21	.22
		dia qtz 10%						
159.5	162.5	vein: strg pop/chl. alt, md-dk gn			34203	3'	.03	.01
		gy w/ some reddish carb in qtz Pebbles						
		15%, gn/bl. chl. 40%, mod siliceous						
162.5	171	Volcanoglom: ltgy, mod pop alt,						
171	173.5	mildly siliceous, few qtz stringers, minor			34211	1.5'	.01	.01
173	174.5	5x occurrences [illegible]			34210	1.5'	.03	.01
171	172	bordered on vein [illegible], strong			[illegible]			
174	174	pop/chl alt bl chl 20%, strongly			34206	3'	.04	.01
174	177	siliceous minor Sx			34207	3'	.01	.01
254.5	257	[illegible]			[illegible]		.01	.01
177.5	180	chunks, sub rounded, 1/4" dia [illegible]			34208	1.5'	.01	.01

ROYAL SCOT

DDH NO. 6 90

DIAMOND DRILL RECORD

Page 1 /

LOCATION 1m west to 7900 of 3500 l.v.l

COLLAR
- Northing
- Easting
- Elevation

DRILLED
- Azimuth
- Dip
- Depth 158

Da · Mo · Yr
- Started
- Completed Sept 26
- Logged Sept 29

EQUIPMENT
- Machine
- Core Size
- Dip Tests

REMARKS Vein 139'-146' no massive sulphides, but poorly 15-50% with abundant black chlorite; siliceous in places.

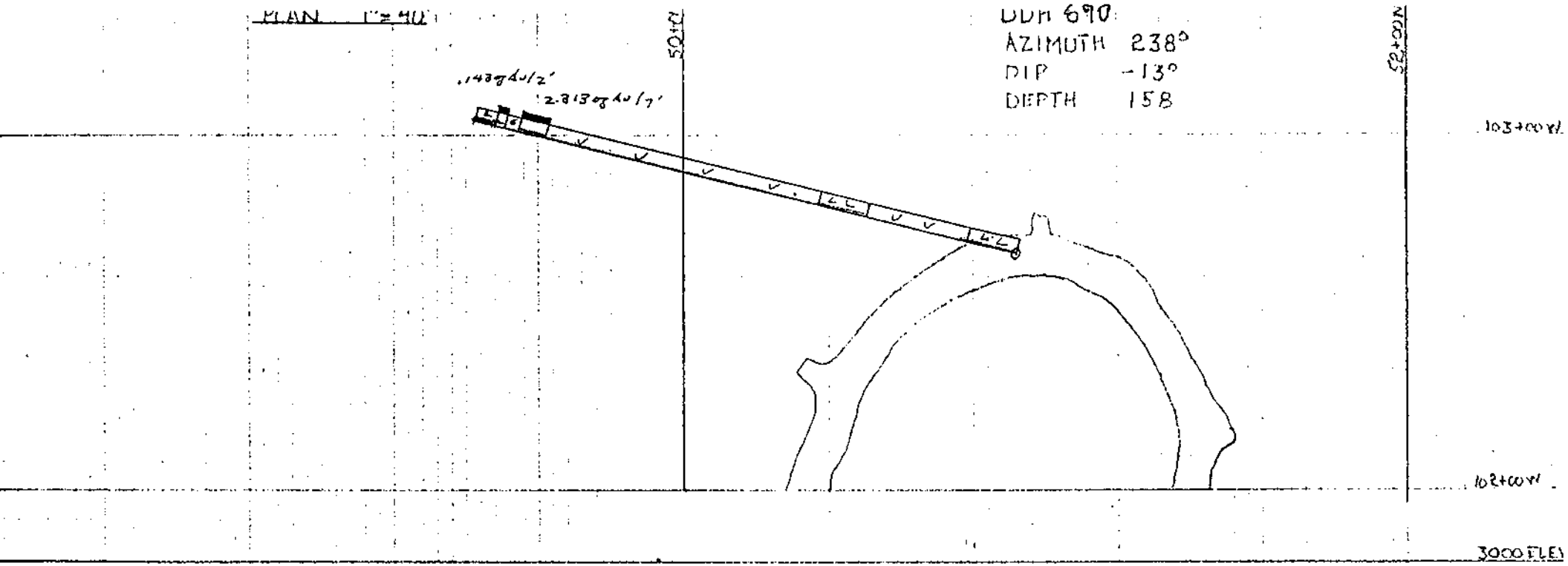
PURPOSE To test extension of West vein

RESULTS Best assay: 4.45 oz/Av / 3.0 feet, with others, gives 2.3 oz / 7.0 feet.

GEOLOGIST Rory MacIntosh Da · Mo · Yr Sept 29 87

PLAN 1"=40'

DDH 690
AZIMUTH 238°
DIP -13°
DEPTH 158



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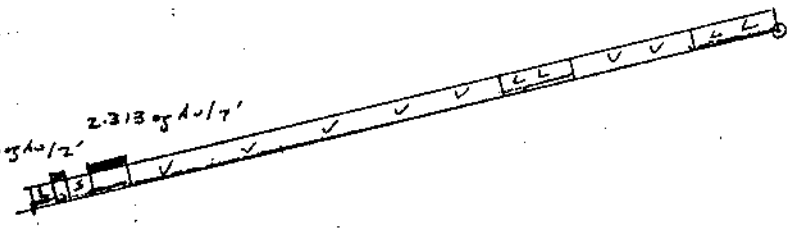

L - LAMPROPHYRE
V - VOLCANO CONGLOMERATE
S - SILICIFIED/SILICEOUS (VEINING)
■ - VEIN

ROYAL SCOT

Royal Scot Resources Ltd.
Summit Lake Mine

DDH NO. 606

DIAMOND DRILL RECORD

Page 3 /

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
0	151	[illegible]	-	-							
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
151	451.1	[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]	5	5			S 3424	3'	.004	.01	
		[illegible]									
		[illegible]									
		[illegible]									
451.1	597.3	[illegible]	-	-							
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									

1.

ROYAL SCOT

DDH NO. 600

DIAMOND DRILL RECORD ___

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DISTANCES		DESCRIPTION	Sx			SAMPLE		ASSAYS		
From	To		Py	Po		Number	Width	Au	Ag	
59.3	60.4	Very [illegible] dyke ... 1/2 cm to CA								
		2) Volcanics ...								
60.4	121.5	[illegible]								
		[illegible]								
		[illegible]								
		[illegible]								
		[illegible]	3	7		[illegible]216	1.6	.003	.01	
		[illegible]	[illegible]	[illegible]		34217	1.4'	.001	L.01	
		[illegible]								
121.5	139	[illegible]	[illegible]	[illegible]						
		[illegible]								
		cut.								
		[illegible]				[illegible]213	1.1'	.003	L.01	
		134 - 136 [illegible]				19	2.5	.003	L.01	
		136.5 - 139 [illegible]				220	2.5	.005	L.01	
[illegible]		Ex Vein [illegible]								
		[illegible] 130 - 134	15	15		[illegible]212	3'	4.453	0.424	
		134 - 136	5	15		213	2'	0.654	0.140	
		[illegible] - 146	7	8		214	2'	0.762	0.042	

ROYAL SCOT

DDH NO. [illegible]

DIAMOND DRILL RECORD ___

Page [illegible] / ___

DISTANCES		DESCRIPTION	Sx			SAMPLE		ASSAYS		
From	To		Py	Po		Number	Width	Au	Ag	
146	154	Vein: siliceous [illegible]								
		qtz + sil alt.								
		146-148				[illegible]221	2'	.004	L.01	
		148-150				222	2'	.006	L.01	
		150-152				223	2'	0.143	.002	
		152-154				224	2'	.041	.23	
154	155	Volcanics silicified								
		1" qtz								
		Lamprophyre dyke in [illegible] core								
		155' - 155.5								
		155.5' EOH								

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD

Page 1 / 6

LOCATION 1187 - 691

COLLAR
- Northing 50 + 80 N
- Easting 102 + 70 W
- Elevation 2981'

DRILLED
- Azimuth 238
- Dip -43°
- Depth 211'

Da · Mo · Yr
- Started
- Completed
- Logged Oct 2/87

EQUIPMENT
- Machine BBU2
- Core Size BQ
- Dip Tests

REMARKS General description: Volcanoclastic with lamprophyre dike intrusions for 0 - 122'. The volcanoclastic is generally medium to dark green grey, with subangular to rounded clasts < 3" diameter. Disseminated sulphides were found throughout and the matrix was mildly to moderately propylitized. From 125 - 211' the dikelets content generally increased, and the matrix was moderately to strongly propylitized. The significant vein intersections are listed below under Results

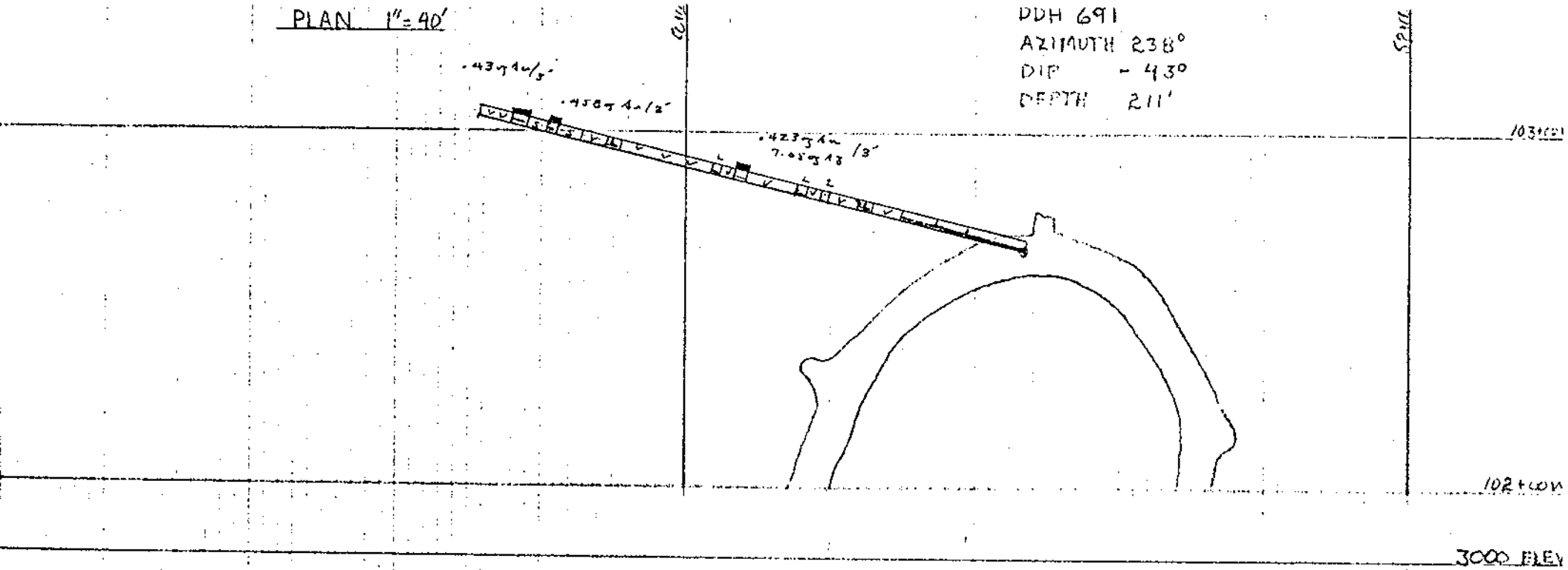
PURPOSE To delineate the depth and westward extent of the west zone ore block

RESULTS Best assays - 0.831, 191 - 193.5
0.635, 195 - 196.80
0.458, 180 - 182
0.036, 186.5 - 189

GEOLOGIST [signature] Da · Mo · Yr 6/10/87

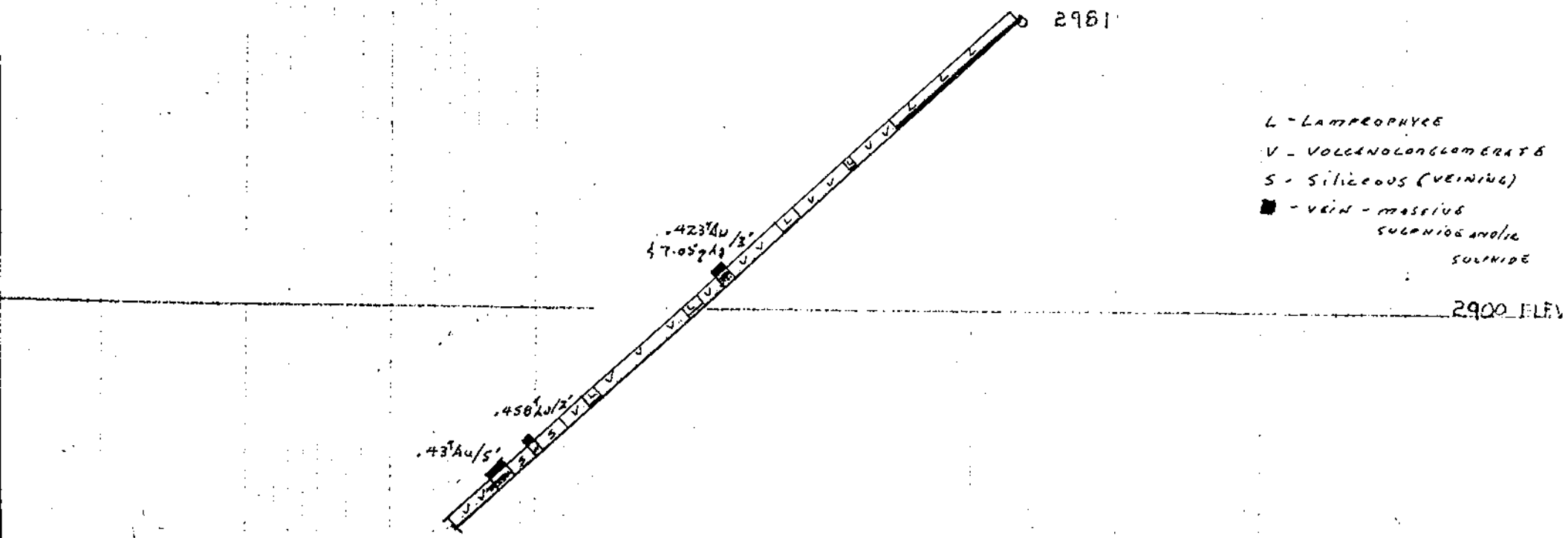
PLAN 1"=40'

DDH 691
AZIMUTH 238°
DIP -43°
DEPTH 211'



3000 ELEV

TRUE SECTION



2900 ELEV

ROYAL SCOT

DDH NO. 697

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	45	lamp dike med-dark grey hornblend rectangular to sub-rounded, grdy, chlorite fills 3" veg at 18.5', few round felds. phens. Contact at 45' 45° CA						
45	↓	no Sx						
45	48'	Volcanoclastic - med-dark grey grn, mod-strong prop alt, mod siliceous, 5x stringers <5%, Vuggy Q 4" at 48' minor Sx, chlorite						
48	60	Volcanglm - med grey grn, mod prop alt, mod-ly siliceous, few erratic Q stringers, minor Sx						
60	62	Lamp - dark grey, rounded hornblends, no Sx, 5° sub parallel contact						
62	79	Vglm light-med grey grn, mild-mod prop alt, erratic Q stringers minor Sx, 5" Q vein at 62' 20% grn chlorite, minor Sx, 3" lamp at 65'						
79	82	Vglm Qvein lamp contact			34225	5'	.010	.16
		Vglm - light grn grey, mild prop alt		10%				

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD

Page 3 / 6

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
77	82	(cont') 10% fg marks in blebs, Q vein – 10% Po 5-10% green chl. lamp dike contact 20° CA, sub rounded phenocrysts						
82	88.5	lamp dike ~~med~~ dk grey, sub-rounded hornblends, few felds (-) 5-10% Sx from 87.5 - 88.5						
88.5	97.5	Vglm med green grey, med-v fg pap alt, 5x 10-15% class, lamp intrusion at 89.5 (½") and 93.5 (8") no Sx rounded pheno, minor chl in Vglm		10-15%				
98	103	lamp dike as before, Vglm in Direction sub parallel CA, at 102 10% diss Po						
103	115	Vglm med green grey, med pap alt, large subangular – rounded clasts, alternating clast / matrix sup. good Sx min sup to 20% in blebs generally 10-15% throughout mod chl alt. Q fold 1" bands at 112-112.5 Sx min 20%		15%				

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD ____

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
115	118.5	Vglom light grn grey, mod prop alt, rounded clasts, Sx 15%		15	34227	3.5'	.009	.34
		1" thick Q vein with 15% Sx blebs & stringers, dissem Sx 3.5' 75 - 10° - parallel CA						
118.5	122	damp dike as before, minor Sx						
122	128	Vglom light grn grey, mod - strong prop alt, mod silicified with stringers bending to parallel CA, mild chl alt, Sx 10% - 15% in blebs & stringers		10-15%	34229	124-126	.007	<.01
128	154	Vfglom, dark grn grey, mod prop alt, sub-angular - rounded clasts, 5% diss Sx throughout		5%				
154	157	Vglom dark black grn, strong - mod prop alt, mod chl alt, 20%, Sx, mildly silicified increasing to strongly sil c/ Sx increasing to 25 - 30% toward 157		20%	34231	3'	.004	<.6
157	158	Q vein mod chloritic alt grns black chlorite present, 20-25% Sx, bounding 15° CA		25%	34230	1'	.004	<.6

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
158	160.5	lamprophyre as before, no Sx						
160.5	165	Vein strongest at 160.5–161.5			34031	1.5'	.010	.44
		w/ Sx 30-40%, strongly siliceous		30-40%	34032	3.5'	.003	<.01
		banding 60° to CA; 161.5→ mod						
		strong prop alt, mod chl alt,						
		mod siliceous, 20-30% Sx, 10%		20-30%				
		bl chl, med grn grey color,						
165	171.5	str min Vglm, med grn grey,						
		mod-strong prop alt, sub-angular		20%				
		clasts, 20% Po blebs & disp,						
~~171.5~~		mildly siliceous, mod-mod chlor alt						
171.5	173.5	Qvein, banded with grn			34033	2.5'	.004	<.01
		chl and wallrock, 30% Sx blebs		30%				
173.5	178.5	Vglm strong Sx min, frequent						
		blebs, 10-20% Po, strong prop		10-20%				
		alt, mod siliceous, mdl-mod						
		chl alt, erratic sheared & stringer						
178.5	182	Vein strong prop/chl alt,		40% - 60%	34034	178-180	.01	.01
		large Po blebs 40%, 20%			34035	180-182	0.455	0.01
		bl chlorite, mod siliceous,						
		banding 10° to CA						

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD ___

Page 6 16

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
192	186.5	Vglm Strongly mineralized as before 15% Sx, strong prop alt, mod-strong chl alt, rounded clasts when not obscured, mod siliceous		15%				
186.5	189	Vein str prop/chl alt, bl chlorite up to 40%, 5x ~~25~~ 30%,		~~25~~ 30%	34236	2.5	0.076	0.01
189	191	Vglm as 192-186.5		15%				
191	193.5	Vein grn black color, strong prop/chl alt, black chlorite 10-20%, coarse grained Py blebs up to 80% of core		40-80%	34237	2.5	0.831	0.02
193.5	195	Vglm - med grn grey, mod prop alt mod chl alt 5-10% Sx		5%				
195	195.5	massive Py bl chlorite vein		50%	[illegible]	195-196	[illegible]	[illegible]
195.5	198	Vglm med grn grey, mod prop alt/chl alt, mildly sil, 10% disem Sx		10%				
198	200	Vglm broken core, Vglm as above						
200	211	Vglm med grn grey, mod prop alt mild chl alt, mild sil, 5% Sx		5%	34239	1'	.006	2.01

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD

Page 1 / 4

LOCATION 3000 LEVEL - RAMP

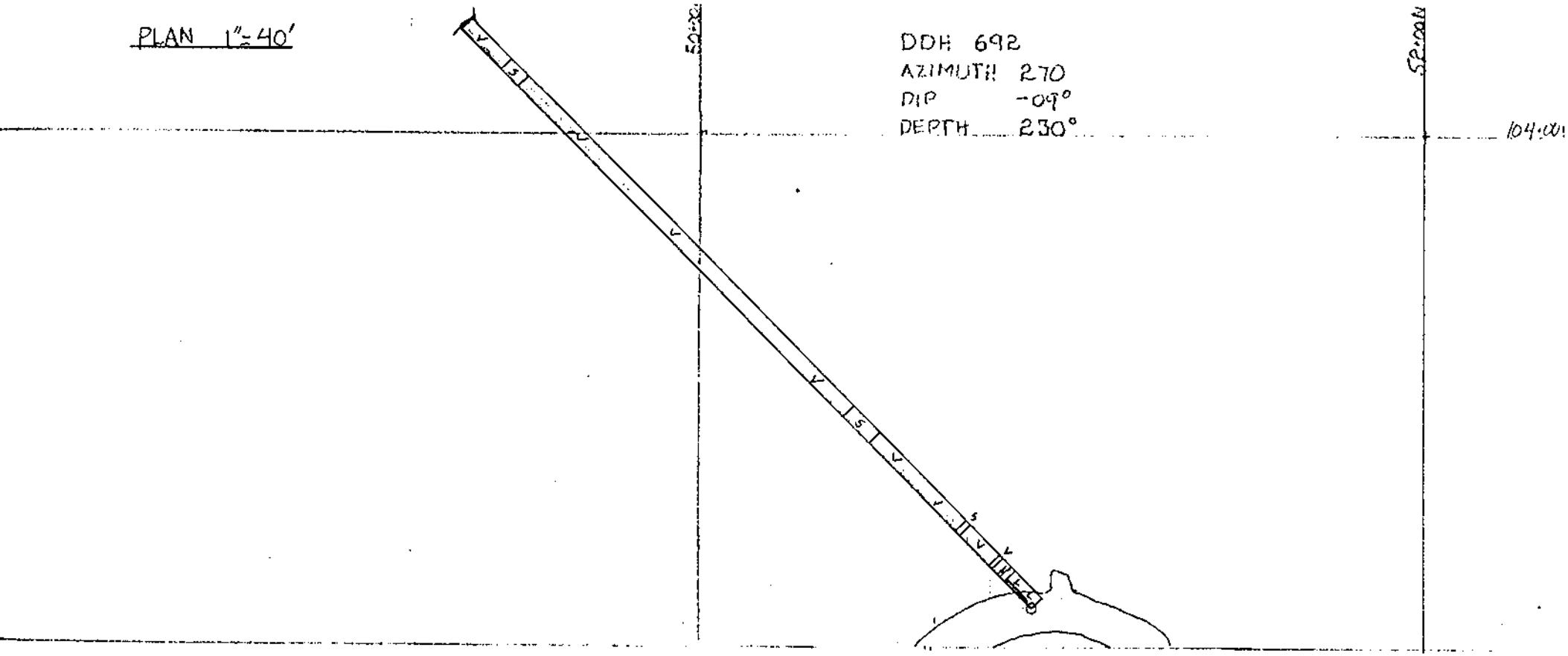
			REMARKS
COLLAR	Northing	50+80 N	
	Easting	102+70 W	
	Elevation	2981	
DRILLED	Azimuth	270	
	Dip	-09°	
	Depth	230'	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To delineate depth & western extent of West zone vein

RESULTS

GEOLOGIST [signature] Da·Mo·Yr 6/10/87

PLAN 1"=40'



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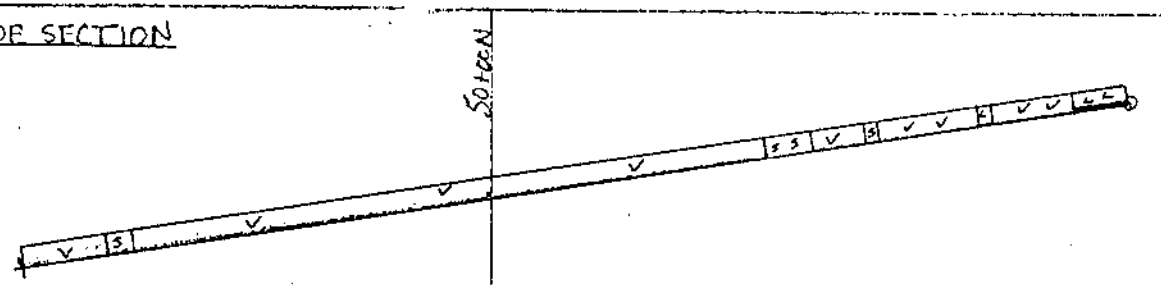


L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED/SILICEOUS (VEINING)

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD ___

Page 2 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	11	lamp dike, med grey, rectangular to sub-rounded hornblends, few rounded feldspars, blebs of green hardness > 5, trace Sx									
11	15.5	Vglm, dark green, mod strong prop alt, mod chl alt, minor Sx Pdl chl blebs, ½" thick bands of QF 45° CA,									
15.5	16	Q vein banded with grn chlorite & wall rock, 20% Po	20%				34243	1.25	.003	.01	
16	23	Vglm as above, scattered Q & QF stringers throughout									
23	25.5	lamp dike - black, rounded hornblends, no alter plag, no Sx									
25.5	54	Vglm mod - dark green grey mod prop alt, weak chl alt, mildly sil. with scattered QF bands 45° CA, minor Sx 3" of 10-15% Po @ 45'					34244	2'	.001	.02	
54	55.5	Vein - strongly prop/chl altered wall rock, pods of mass. Sx, large veins of Pl chl.	massive								

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
55.5	65	Vglm Q vein - light - med grey grey strong prop alt, v strongly siliceous, 50% Quartz feldspar matrix erratic stringers & thick QF bands minor dk chl, minor Po blebs								
65	68	Q vein 90% Quartz feld matrix no Sx, minor grn chl & wall rock				S	34252	1'	.001	.01
68	74.5	Vglm Q vein - med grn, v strongly		30%						
70	74	Siliceous 40-50% QF matrix, heavily banded & twisted matrix, very strong prop alt / chl alt, 5x blebs and bands up to 30%				S	34245	4'	.001	.01
74.5	90	Vglm, med-dark grn grey, mod-strong prop alt, mildly sil, rounded partially obscured clasts, 5x diss & blebs 5%		5%						
90	145	Vglm, med-dark grn grey (black), mod prop alt, large 3" rounded clasts scattered throughout, mildly sil w QF bands occasionally, few stringers, 5x <5% generally in blebs								

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
145	170	Vglm med grey grn, mod – strong prop alt, mdly – mod siliceous, 5" thick Q-Feld band @ 147 -30° CA Q stringers scattered throughout >60° CA 5% class Sx in stringers, few large rounded clasts		5%					
170	190	Vglm light grn, mod – strong alt, strong sil, 5-10% class Sx stringers		5-10%	S	341246	2'	.011	.01
190	192	mdly – mod chl alt			S	341247	3'	.011	.01
192	195	mdly – mod chl alt			S	341248	3'	.007	.01
190	~~198~~ 206	~~Vglm~~ Vein – light grn, strong prop/chl alt, strongly siliceous, 30-40% class Sx, coarse grained		30-40					
195	198	massive to semi massive Sx			S	341249	3'	.011	.01
206	211	Vein massive bl chlorite and		>50%					
198	201	Vglm med-dark grn, mod-strong prop alt, mod-strongly siliceous,			S	341250	3'	.005	.10
201	201	erratic Q ± QF stringers, minor Sx			S	341251	2'	.011	.01
~~211~~	~~230~~				S	~~341252~~			
206	206.5	~~EOH 230~~			S	341240	2.5'	.012	.01
206.5	210				S	341241	1.5'	.011	.50
211	211.5	EOH 230			S	341242	3'	.009	.01

ROYAL SCOT

DDH NO. 693

DIAMOND DRILL RECORD

Page 1 / 4

LOCATION: Ramp below 3000' level

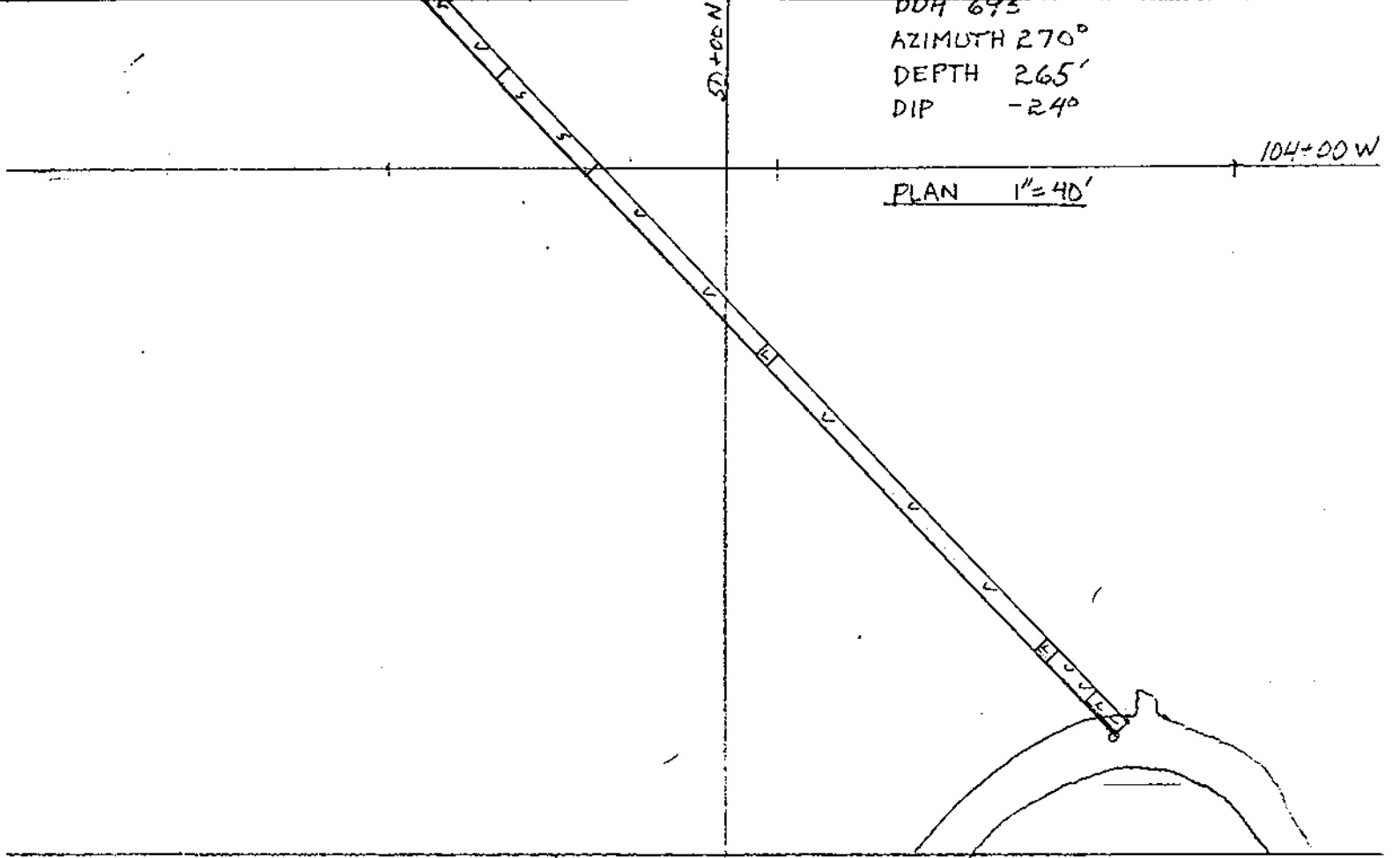
			REMARKS
COLLAR	Northing	50+80 N	
	Easting	102+70 W	
	Elevation	2981	
DRILLED	Azimuth	270	
	Dip	-24	
	Depth	265	
Da · Mo · Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE: To delineate depth & western extent of west drift zone.

RESULTS:

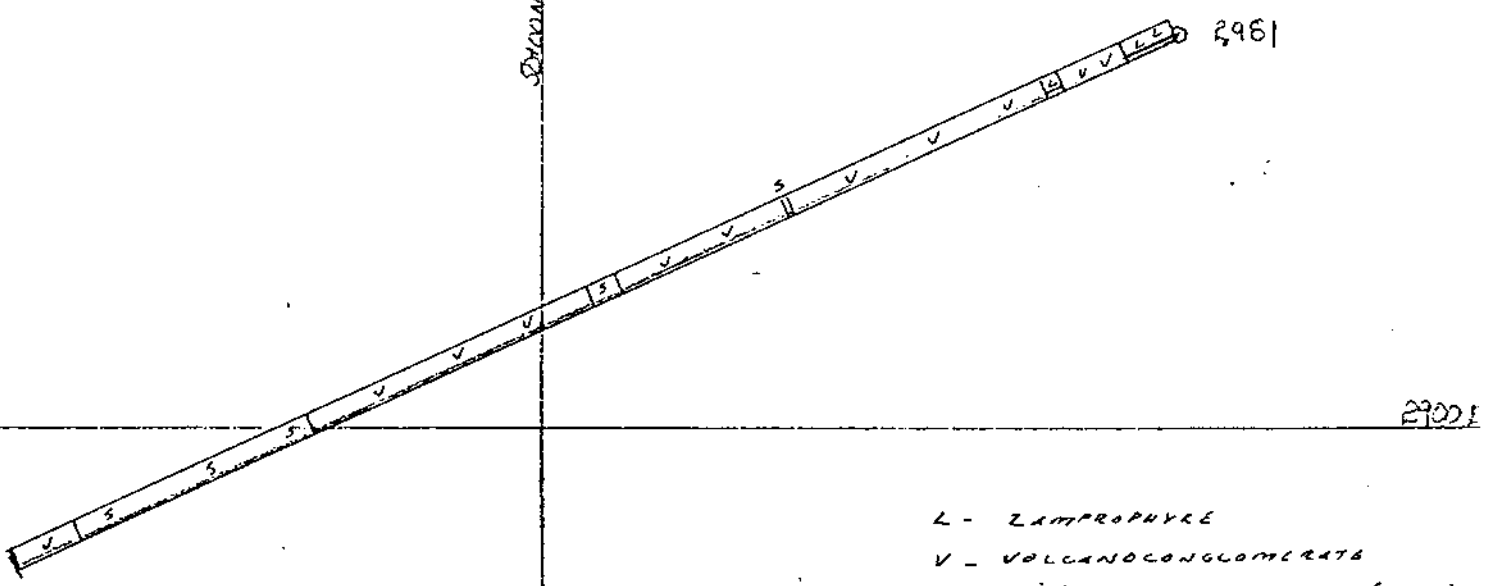
GEOLOGIST: [signature] Da·Mo·Yr 06/10/87

DDH 693
AZIMUTH 270°
DEPTH 265'
DIP -24°



PLAN 1"=40'

TRUE SECTION



L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED / SILICEOUS (VEINING,

ROYAL SCOT

DDH NO. 693

DIAMOND DRILL RECORD ___

Page 2 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	11	Lamp dike med grey to grey grn rounded hornblends, green feldspar phenocrysts								
11	26	Vglm med grn, med prop alt, scattered QF stringers 30-45° CA, sub rounded clasts minor Sx, banded Q at 12'-13' Sx 20-30%								
26	28	lamp dyke - black, rounded hornblends, no Sx								
28	44	Vglm as 11-26, ¼" Q vein 20% Sx parallel to CA 39-44'								
44	47	Vglm, light grn, 1' broken core 44-45, mod - ~~strong~~ alt, mod sil, scattered QF stringers minor Sx blebs, minor bl chl								
47	87.5	Vglm, med - dark grn grey mild - mod alt, large ¼-3" sub rounded clasts, few QF stringers, minor diss Sx								
87.5	88	Vglm ~~strong~~ alt, 30% Sx banding 80° CA		30%						

ROYAL SCOT

DDH NO. 693

DIAMOND DRILL RECORD ___

Page 3 of 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
55	115	Vq[illegible] – [illegible]		3%							
		[illegible]									
1		[illegible]									
		[illegible]									
115	118	Vqlm – [illegible]									
		[illegible]	1	%							
118	120	VqCm, – med grey grn [illegible]									
120	130	[illegible]				S	34253	2'	.006	.01	
		[illegible]									
125	131	Vqlm, [illegible]									
		[illegible]		2%							
131	161	Vqlm – med dark grn [illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]		1%							
		[illegible]									
161	195	Vqlm, med-dark grn grey									
174	175	mafel – med prop alt,				S	34254	1'	.007	.01	
		scattered blebs of Sx, diss Sx <5%									
		large 1-2" sub-angular – rounded									
		clasts, 1' Q hanging-vein at									

171 – 175

ROYAL SCOT

DDH NO. 673

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
198	227	Vglm - vein v strongly altered,							
201	203	mod chlorite alt, mod siliceous			S	34255	2'	.003	<.01
211	213	5% stringers & blebs 10-20%,		10-20%	S	34256	2'	.005	.01
214	216	blebs of bl chl <10%			S	34257	2'	.001	<.01
221.5	224.5				S	34258	3'	.001	.01
227	230	EOH 227			S	34259	3'	.003	<.01
227	250	vein			Sn				
227	232.5	dark grey qzm, v strong prop alt, strong							
232.5	235	chl alt, very siliceous matrix, Po		20	S	34270	3'	.005	.01
235	238	blebs & stringers 20%, dark chl 25%			S	34271	3'	.011	.11
232.5	247	massive bl chl & Po 60%, Q 40%							
241	244	with purple cast, most bearing at			S	34273	3'	.008	.01
244	247	45° CA			S	34274	3'	.011	.01
247	250	med-dark grey, massive, Po at 249.5-			S	34275	3'	.001	.01
250	252	249.75, strong chl alt 20-30% bl			S	34276	2'	.001	.01
		chl, Po blebs & stringers <20%	<2%						
250	255	Vglm light - med grey, brecciated							
		matrix, mod - strong prop alt, Q stringers							
		10-20% CA, minor Po blebs							
255	265	Vglm med grey qzm, mod prop alt, sub							
		angular clasts <3/4", brecciation 255-257							
		mod - mod silic, minor Sx blebs							

EOH @ 265'

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD

Page 1 / 3

LOCATION 3000 LEVEL – RAMP

COLLAR	Northing	60+80N	REMARKS
	Easting	102+70W	
	Elevation	2981	
DRILLED	Azimuth	270	
	Dip	-35	
	Depth	290	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To delineate western extent and depth of west drift zone vein

RESULTS

GEOLOGIST Bob Fleck Da·Mo·Yr 06/10/87

PLAN 1" = 40'

DDH 694
AZIMUTH 270°
DIP -35°
DEPTH 290'

.238 oz Au/8'

5010N

5210N

10400N

10300N

3000 ELEV

TRUE SECTION

5010N

2900 ELEV

L - LAMPROPHYRE
V - VOLCANO CONGLOMERATE
S - SILICIFIED/SILICEOUS
■ - VEIN - MASSIVE SULPHIDE

.234 oz Au/8'

ROYAL SCOT

DIAMOND DRILL RECORD ___

DDH NO. 694

Page 2 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	15	Lamprophyre dike med-dk grey rounded clasts, grain size of felsic phases									
15	85	Vglm - med dk gry, mod prop alt, clasts up to 3", sub rounded, scattered QF stringers, 70-85° CA, scattered Po blebs and vein diss Sx 5" lamp extension at 33.5', scattered blebs of Py Chl									
85	103	Vglm med gy grey, strong prop alt; Quartz vein at 90-95°, Vglm - mildly sericitic, Sx blebs, stringers + diss upto 10-15% locally,	10-15								
103	145	Vglm as per 15-85									
145	165	Vglm as per 85-103, Sx diss <10%, erratic stringers of Q,									
165	175	Vglm, mod dk grey, clasts sub-rounded up to 5", mod prop alt, mildly sericitic,									

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD ____

Page 3 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
165	175 cont	mod chl alt, minor diss Sx + blebs									
175	180	Volm med gen grey, mod prop alt, mod chl alt, locally 30% gen chlorite, minor diss Sx				S	34251	3'	.04	.01	
179	180					S	34260	1.5'	.01	.03	
180	184	Volm strong prop alt, medium to dark gen mod-mod sil, minor diss Sx				S	34261	1.5'	.01	.01	
183.5	210					S	34262	1.5'	.01	.08	
184	185.5	Q stwin, V strong alt, very sil, med grey, banding, banding to parallel CA, <10% to diss Sx				S	34263	1.5'	.03	.03	
197.5	199					S	34277	3'	.165	.05	
210	213										
1855	207	Volm mod-strong prop alt, mod grey grey, mod chl alt mod-mod sil, subrounded clasts, minor diss Sx				S	34278	3'	.215	.05	
213	215					S	34279	3'	.05	.01	
215	218					S	34280	3'	.01	.01	
218	221										
221	224	Volm strong prop alt, mod sil, mod chl alt, scattered blebs				S	34281	3'	.05	.01	
224	227	lt chl, 3" bleached Q vein @ 225'				S	34282	3'	.01	.09	
227	229	scattered 1-2" QF bands, 2' broken core at 235', erratic Q stringers 240' - 250'				S	34284	3'	.01	.01	

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD ___

Page 4 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
250	272	Valm: brecciated matrix mod pcp alt, mod-stg siliceous, med gy, minor 5x blebs.						
272	287	Vein:						
272	275	siliceous bl. chl. matrix, Po 15-20% dk gy bl. color						
275	282	massive bl. chl + Po mildly siliceous						
282	287	brecciated siliceous matrix Po blebs 30%, bl. chl 10-20%						
287	290	brecciated Valm - strongly siliceous <10% Po blebs, med gy color minor chl. alt.						
		EOH 290'						

ROYAL SCOT

DDH NO. 695

DIAMOND DRILL RECORD

Page 1 / 5

LOCATION 3000 CROSS RAMP

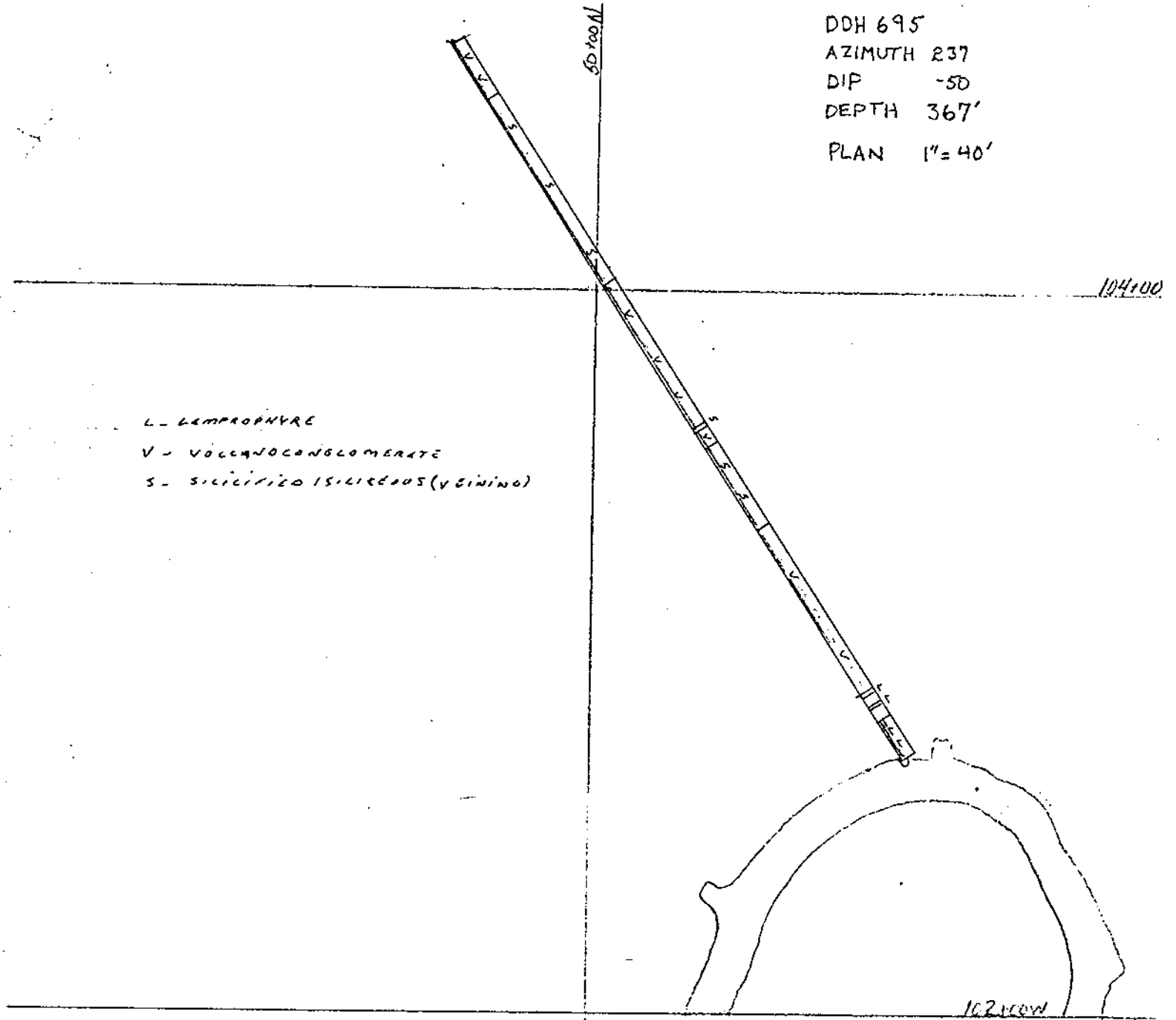
COLLAR	Northing	50+80N	REMARKS alternating lamprophyre and volcanoglomerate for the first 32'. Volcanoglomerate generally medium grey-green with moderate to strongly siliceous matrix. Core matrix 236-367 is very siliceous, banded brecciated, with minor quartz stringers and minor sulphides. Original depth was projected to 385' but drilling was shut down due to a fault at 365.
	Easting	102+70W	
	Elevation	2981	
DRILLED	Azimuth	237	
	Dip	367°-50	
	Depth	367'	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBUL	
	Core Size	BQ	
	Dip Tests	—	

PURPOSE To delineate depth & western extent of west drift zone

RESULTS Hole shut down before vein intersection reached because of drilling difficulties in faults.

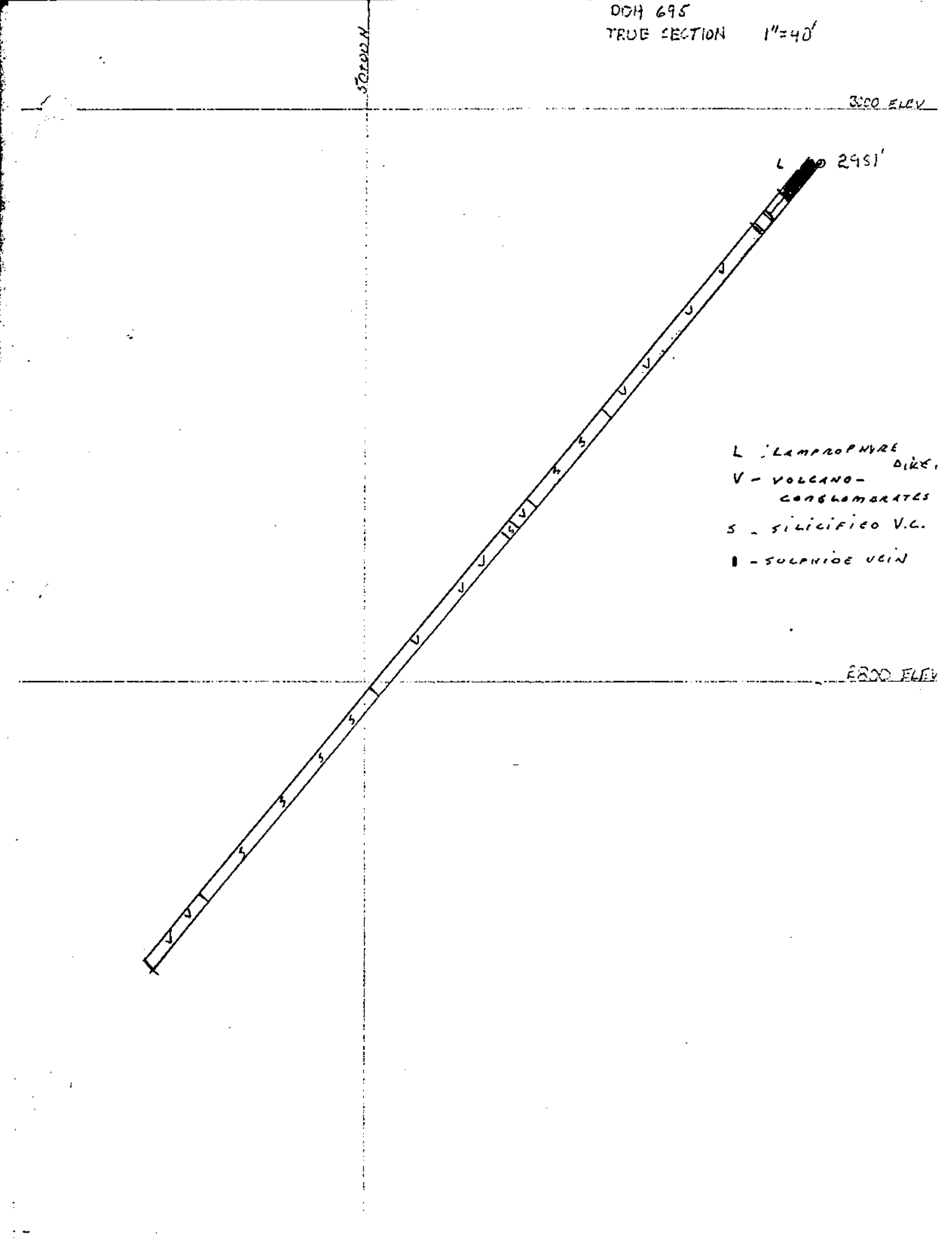
GEOLOGIST [signature] Da·Mo·Yr 06/10/87

DDH 695
AZIMUTH 237
DIP -50
DEPTH 367'
PLAN 1" = 40'



L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED ISILICEOUS (VEINING)

DDH 695
TRUE SECTION 1"=40'



ROYAL SCOT

DDH NO. 6735

DIAMOND DRILL RECORD ___

Page 2 of 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	17.5	lamprophyre dyke - mod - dark grey, minor alt of hornblend phen. 0-11' Sew fold; 11-17.5 → 30% felsic phens chloritically alt, fgm intxr, rounded bxnds. propylitic alt									
17.5	25.5	Vglm mod - strongly chlor alt, clast <1" subangular, dark grey grn, erratic Q stringers, minor diss Sx, 4" lamp. intrusion at 4' grey grn chloritic alt;									
25.5	26	Lamp dike black, silicified contact w/ ~~contact~~ Sx blebs									
26	31	Vglm mod - strong prop alt, dark grn grey, clasts <1" dia, subangular - rounded, erratic Q stringers, ¼" stitch shear Q vein 28-29°, blebs of Sx; minor diss Sx throughout									
31	32	Lamp Vglm contact - black lamp rounded blebs, minor silicification contact, Vglm as before, contact parallels CA curving to perpendicular									

ROYAL SCOT

DDH NO. 65

DIAMOND DRILL RECORD

Page 3 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
32	91	Vglm med grn grey, mod prop alt, clasts < 1" dia, subrounded-rounded, minor diss Sx & occasional Sx blebs & vein Q stringers						
91	110	Vglm med grey grn, strong - mod prop alt, mod siliceous, 96-97.5 Sx stringers 5-10% minor bl chl, QF band 3" thick at 95', minor diss Sx throughout <5%.						
110	110.5	Vglm & vein. Vglm as above & vein 1½" wide ¼" thick, sheeted with wall rock						
110.5	116	Vglm as above						
116	127	Vein med grey grn / white strong prop, mod chl alt, siliceous matrix 30-70% Q, diss Sx throughout, locally up to 30-40%		20-40%	34264	120-123	.008	.03
127	137	Vein med grey grn, strong prop alt, mod chl alt, Cbs siliceous matrix thr- above approx 20% throughout, diss Sx 10-20%		10-20				

ROYAL SCOT

DDH NO 695

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
37	144	Vein as per 116-127						
144	151	Q vein white - gm grey, primarily Q (80%) with strongly altered Vglm, diss Sx in Vglm 10%		1%				
151	157	Vglm mod grey grn, strong prop alt, mod siliceous, mild-mod chl alt, diss Sx and stringers 5%						
157	167	Vglm mild-mod alt, mod-dk grn grey, clasts up to 3" dia rounded-sub rounded, fine Q stringers minor diss Sx, broken core 161-163						
167	169	Siliceous Vglm vein? similar to 137-144 but not as strongly prop alt, minor diss Sx						
169	187	Vglm mod-dk grn, mod-strong prop alt, mod siliceous, mod chl alt, diss Sx throughout, frequent blebby stringers, locally up to 20% broken core 184-186						
187	236	Vglm med grn grey, mod prop alt, mild-mod bl, occ Q stringers			34265	223-23		

ROYAL SCOT

DDH NO. ~~575~~ 595

DIAMOND DRILL RECORD ___

Page 5 of 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
236	243.5	Vglm mod grey, ~~strong~~ prop alt, mod chl alt, ~~mod~~ - strong sil, minor diss Sx <5%, ~~mod~~									
243.5	273	Vglm Vein med grey, V. strong siliceous matrix, broken fractured core throughout, mod - strong chloritic alt, diss Sx / bleb locally 10-15% erratic Q stringers, brecciation ~~gouge~~ 255 - 267, gouge 256 - 258,					34266	25/5-7	35 ppb	.02	
							34267	2M 26	100	<.01	
273	336	Vglm QVein ~~strong~~ prop alt, mod ~~strong chl~~ alt, very slt siliceous, erratic stockwork Q-stringers, light med grey color, minor diss Sx									
311		Broken core for 1' at 311 & 316, fractured 326 - 331 brecciated matrix									
336	349	Vglm QVein, broken core, brecciated matrix as per 273 - 336 with ~~increasing amount of green~~ chlorite ~~laumont~~ 349, minor diss Sx									
349	367	as above, ~~strong chlorite alt~~ locally,									

ROYAL SCOT

DDH NO. 696

DIAMOND DRILL RECORD

Page 1 / 2

LOCATION: Above ramp to 2900' level

			REMARKS
COLLAR	Northing		
	Easting		
	Elevation		
DRILLED	Azimuth		
	Dip		
	Depth	14'	
Da · Mo · Yr	Started	Oct 6	
	Completed	Oct 6	
	Logged	Oct 7	
EQUIPMENT	Machine	BBU 2	
	Core Size	BQ	
	Dip Tests	—	

PURPOSE

RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr 10/10/87

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. U87-69

Page 2 / 2

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	2'	Casing						
2	7'	Valm: mod alt, m br. qn, 1:5, mildly silicified cross qtz veins 1/2" w/ frac bx chats 2% Sx in blebs + stringers						
7	11	Vein:						
7	8	strgly silicified, strgly alt valm m. qn 1:5 10% Sx (py+po) in Blebs + stringers						
8	9.5	70% wh. qtz + 20% altred (distorted, sheared bx) wall Rock, 10-15% Sx (qn py) in blebs of wh. qtz/wallrock contact + in stringers in bands of alt wall rock						
9.5	11	Alt. valm: as for 7-8'						
11	11.5	Valm: as for 2-7'						
11.5	12.8	missing core.						
12.8	14	Valm: silicified, w/ chlrd qtz Sec wh. qtz						
		14' EOH.						

ROYAL SCOT

DDH NO. 697

DIAMOND DRILL RECORD

Page 1 / 10

LOCATION Just above ramp to 2900 level

			REMARKS
COLLAR	Northing	32+44N	
	Easting	49+44E	
	Elevation	2991	
DRILLED	Azimuth	126°	
	Dip	74°	
	Depth	~~698'~~ 692	
Da·Mo·Yr	Started	Oct 6	
	Completed	Oct 10	
	Logged	Oct 10 87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To drill through Morris Summit Fault; to test extension of Main Zone below fault.

RESULTS Established geology of Morris Summit Fault. Main Zone not intersected

GEOLOGIST Ray MacIntosh Da·Mo·Yr 10/10/87

NORTH

2900'

D.D.H. U87-697
DIP -74°
Az. 126°
DEPTH 692'
TRUE SECTION
1"=40'

2800'

L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED/SILICEOUS U&IN
T - ANDESITE LAPILLI TUFF
H - HORNBLENDE ANDESITE
A - BRECCIA
{ - SOUCE SEAM

2700'

2600'

MORRIS
SUMMIT
FAULT

NUMEROUS
GOUGE SEAMS

2500'

2400'

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 087-057

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General: This hole passes through the Morris Summit Fault beneath the Main Zone at roughly 2700' elevation. No massive sulphide veins were encountered. Fault gouge occurred in four locations from 160-224' - 460' with the thickest and most clay-rich one at 408-413'. This is probably the Morris Summit Fault. The entire faulted region contains strongly silicified (in situ) breccias with silicification obscuring all original rock features, and from 213-217.5 passes into pure quartz. The hanging wall of the fault contains fragmental volcano-clastic rocks, the footwall andesite lapilli tuff.						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 087-013

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	2'	casing									
2	10'	Volcanomerate: m br gn, H: 5+; silicified bodies obscured. Very weak frac bx w/ quartz infilling. 5% Sx (po) in blebs throughout, but come in qtz veins where it occurs w/ min bt. chl.									
7	9.5'						34289	2.5'			
10	16.5'	Volcanoglomerate: m-dk gn H5+; mod altered, clast bodies obscured; 5% thin (1/8") qtz stringers 45° CA.									
16.5	18'	Quartz-sulphide vein: w/ volcanoglom as above, contact 11 CA. Quartz white w/ frags of val wall. 5x 75% 5x (po) in blebs come at qtz/val enter, but also in blebs throughout qtz.					34290	1.5'			
18	47.5'	Volcanoglom: m-dk gy gn H5+ mod alt to mild prop alt, mtx > clast 10-30%, 1/4"-2"; 5% Qtz/fds veinlets (1/8") at 45° CA									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 97-697

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
47.5	48.8'	Lamprophyre dyke: dk gy, H:4						
		Groundmass: dk gy, aphanitic.						
		Phenocrysts: 1) bbl: corroded blades						
		+ black blebs (1/16") 10% of rock						
		+ white calcite blebs 5% 1/16"						
		deroyed Cs-plag?						
48.8	54.5'	Volcanic clast: m gy gn, H:3 a:						
		for prev unit						
54.5	65'	lamprophyre dyke: dk gy H:3						
		groundmass: dk gy, aphanitic;						
		Phenocrysts: 1) bbl: corroded blades						
		+ blebs, 10%, 1/16-1/8"						
		2) calcite blebs, 10% of						
		rock 1/8-1/4" (deroyed Cs-plag?)						
		in Sx.						
65	104	Volcanic clast. m-dk gy gn H:3+						
		unaltered to mild prop alt: matx						
		supp. 10-30% clasts 1/4-2" angular						
		to subangular outlines locally						
		(1-2") obscured in Sx.						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 0287-097

Page 5 / 14

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
93	104'	10% qtz and qtz/fds veinlets + stringers at ~80°CA prop alt stronger within reg.						
104	105.5'	Vo hx volcanoclast: mgy gn + pink + white patchwork 80% vgl as above but strongly frac'd w/ 20% qtz infilling. (Quartz pink from 104-104.5)			34291	1.5'		
105.5	110'	Volcanoclast: m. brn gn ht: 5+ mod-strg prop alt: silicified from 109-109						
110	112'	Volcanoclast/qtz vein: contact ~CA Vol as above, qtz vein: ~2% qtz 30% silicified zones, bleached wall rock 10% 5x (po) in blebs some at contact			34292	2'		
112	143'	Volcanoclast: dk gy gn ht: 5 mod prop alt; clasts corroded and obscured. 116-117: Qtz vein w/ 5x as for 110-112 121-1215 broken core + min. chl. alt.			29293	31'		

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 087-6993

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
143	144'	Brecciated qtz vein: gy qtz + white			34294	1'		
		boards w/ 10% Sx (py) inclus.						
		calcareous. Bands of bx altered wall						
		Sx in qtz vein						
149	152.5'	Volcanic clast: dk gy H:5+ clasts						
		obscured by mod. para alt. not						
		silicified. no Sx						
		145-146 - broken core 150.5-151:						
		broken core						
152.5	155'	Volcanic clast: m gy qtz H:5+						
		silicified m-xh broken core Sx 1-2 1%						
155	156	bx volcanic clast: m gy H:5 silicified			34295	1'		
		laced w/ qtz stringers + veinlets 20%						
		15-20% Sx (py) (Po) blebs not visible						
		host rx bx Grades to rx + wall w/						
		increasing qtz, Sx.						
156	160'	Qtz Sulphide vein: mottled +			34296	4'		
		streaked m gy, wh. + bx. H:5-7 Hard						
		rx + qtz near h. homogenized w/ some						
		banding and flow bx 20-25% Sx (a						
		Grades into wall rx as with						
		veins						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 087-697

DIAMOND DRILL RECORD ____

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
1600	1602.2	bx volcanoclast: m gy, H:5+ as			34297	2.2'		
		for 155-156						
1602.2	1606	Faulted Area: 2 rock types w/ grad						
		contact 1) bx volcanoclast m gy H:5+						
		as 155-156 2) fault gouge: m gy						
		white salt + pepper H:1-2 gouge						
		contains bx frags of vol crmll						
		+ sandy units of bx vol + gouge						
		~ 2'-4" alternating						
1606	1608.4'	Breccia zone: m gy + white H:5+						
		w/ soft (3) seams. To site frac bx						
		of altered vol and qtz. Elsewhere						
		silicified						
1608.4	1609.6	Fault Gouge: dk gy w/ lt. gy bx						
		frags H:<1, w/ bx frags H:5 sandy						
		grnll non graphitic						
1609.6	2015	Silicified Breccia: mottled m-lt gy						
		+ white H:7 in situ bx. Extensive						
		silicification + alteration on						
		original bx textures visible. Qtz						
		veinlet at 45° CA (late stage?) Bx						
		extreme thru out w/ 70-90%						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 87-69

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		Frags in 20% qtz Ground						
		smearing + solution of bx from						
		F? Core fractured + recemented broken						
		from 169-180 no Sx						
201.5	202'	Quartz vein: white, qtz H:7						
202	203.7'	Silicified Breccia mauve matrix.						
		H:7 similar to 169.6-201.5 but						
		clast bnd is less clear, defined.						
203.7	213	Extreme Silicified Breccia: translucent						
		tuff. w/ pale yellow frags. H:7 to						
		site bx Mass total silica replacement						
		of clasts. Mx recrystallized, visible						
		Multiple bx of all clasts w/ pale qtz						
		content 85% or more w/ pale yellow						
		alt indirectly clast shape. Pyrite (<1%)						
		black wisps (bt chl?) Late: large?						
		qtz veinlets 11 CA. Contact w/ next						
		unit 203.7' sharp at 30° CA Contact						
		w/ next unit 213' gradational over						
		1.5'						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 087-097

DIAMOND DRILL RECORD ——

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
211	217.5	White quartz · H:7 chloritic occasional									
		patches 2" smoky Blue Ghost by									
		1 frag (10%) pale yellow-white.									
		Veined at 213.5, 214 216.3									
214	215						31285	1.5'			
217.5	203	Silicified Breccia: as per 203-211									
		w/ 2-3% +/- 1% H:7 in situ by									
		Extreme silicification no original									
		text F? Broken core 220.5-221									
		Fault? 220.5-223									
203	251.5	Silicified unit · H:7 duo chloritic									
		silicified no original text qtz									
		jewels not by min (<1%) 5-10%									
251.5	254.5	Volcano clast dike as per 203-211									
		H:6-7 silicified brecciated chloritic									
		altered as 5x									
254.5	211	Silicified Breccia: duo w/ white chloritic									
		H:6-7 in situ by chloritic									
		silicified no original texture like									
		unit 203-251.5 but 5% qtz									
		infillings between clasts									
		size 1/4-3" medial size - 1/2									

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SUMMIT LAKE MINE

DDH NO. 021-092

DIAMOND DRILL RECORD ___

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		Volcaniclastic (10-15%) altered									
		1/16-1/2" SDA Pebbles, strong									
		pervasive ~ 20-30° to CA									
		234' to 239' - 20°-30° and becomes									
		mottled w/ black chert clasts									
		clasts no Sx									
231	239'	Volcaniclastic mottled m gy gy									
		w/ HF silicified clasts (20%									
		of some recrystallized matrix									
		239-252 Banded altered volc ash									
252	318'	Silicified breccia dark gy/blk									
		sheared, recrystallized matrix w									
		no mod dk gy patches									
		Strongly silicified and altered									
		Volcanic but Textures hard w/ clast									
		size 1/8" - 2" most are rounded									
		1/2" - 1" pervasive bedding 20°									
		min Sx 1-2% Py									
252	254'						34299	2'			
257	259'						34300	2'			
312	314'	[illegible]									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 87-692

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
397	408	Silicified breccia: dk. H:1 a- for									
		352-372									
408	412.	Fault Gouge: wh. clay bounded									
		marl salt+pepper H:1 w/ Silicate									
		blebs (?) Arenaceous, qtz-ill min.									
		calcite Mod bodded ox 412-412.5:									
		clay tan wet fluid Major fault?									
		Morris Summit Fault?									
413	418	Silicified breccia: H argillation									
		H:7 but breaks readily along									
		fracs many oxidized									
418	422.5	Silicified Breccia + Silicified marl:									
		salt and pepper H:7 1-5 in altered									
		areas in situ breccia w/ qtz									
		filled local qtz veining. Fractured									
		broken core									
422.5	450.5	Silicified Breccia w/ Fault gouge:									
		broken core altered, loss of structure									
		of H + dk qtz patches 429-449									
		Gouge 451-458.									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 87-07

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
459.5	464	Fault zone + brokencore in gy						
		salt + pepper basalt. Clean sharp						
		angle 30° CA						
464	467.5	Silicified breccia: mottled lt gy						
		fn gy, lt grey in H-7 in situ bx						
		strongly silicified no orig						
		text: clasts remain replaced by qtz						
467.5	519	Silicified breccia: mottled and						
		banded. H-7 locally faulted						
		in situ bx. Remnant clasts of orig.						
		rx interrelated w/ strongly						
		silicified replacement on scale						
		of 1/4-1" 477.5-478 silicified						
		fault zone 50% 5-5x60° 5x			5			
		diebase (po 5%)						
519	532	Silicified unit: (andesite lapilli tuff)						
		H-7 mgy-dk grey-green. Mixed						
		in situ bx strong silicification						
532	565	Andesite lapilli tuff: dk gy-gn						
		H-6-7 silicified mild in situ bx						
		Black lapilli 1/20-1/10" locally						
		obscured by sil. alt min disseminated						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. [illegible]

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
542.5	543.5	po blebs ~5%			5			
565	579	Silicified unit: lgn w grey bs qy						
		br pink m qn br streaks ~ 10°CA						
		HI-7 mild bx 567-569 No ox text						
579	589	Andesite lapilli tuff: m gy qn HI-7						
		silicified bot block lapilli 1/32-1/16"						
		Visible mild sil bx Occas. 1%						
		5x (po) blebs + stringers						
589	617	Andesite lapilli tuff: m gy qn						
		as for prev unit mild sil bx						
		607-610						
617	620	Lamprophyre dyke: dk gy qn			5			
		HI-5 qm xl mass: dk gy qn						
		w/ hornbl. phenocrysts: 1-2 mm 1/8"						
		xlaclase, subhed white plagioclase 1/4"						
		2% 5x (po)						
620	622	Andesite lapilli tuff: m gy HI-2						
		black lapilli 1/32" peppered throughout						
		Qtz stringers 1.5% multi directions						
		mild sil bx in places, Occas 1%						
		5x (po) blebs						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 087-087

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
1052	1081	Silicified unit mottled m gy bn m bn gn white qtz stringers 1:5 Mild sil bx; distortion of rx Host text + dissol text Possible orig clasts 1/2-1" but orig text obscured <1% Sx (py) blebs						
1081	1092	Hornblendic andesite: m gn gy 1:5 mtx: aphanitic m gn gy / phenocrysts: hbl in blades, accas rounded 1/16-1/4" 15% of rx. Stringers qtz + Qc 30°CA (5%) no Sx						
		EOH						

ROYAL SCOT

DDH NO. U87-698

DIAMOND DRILL RECORD

Page 1/

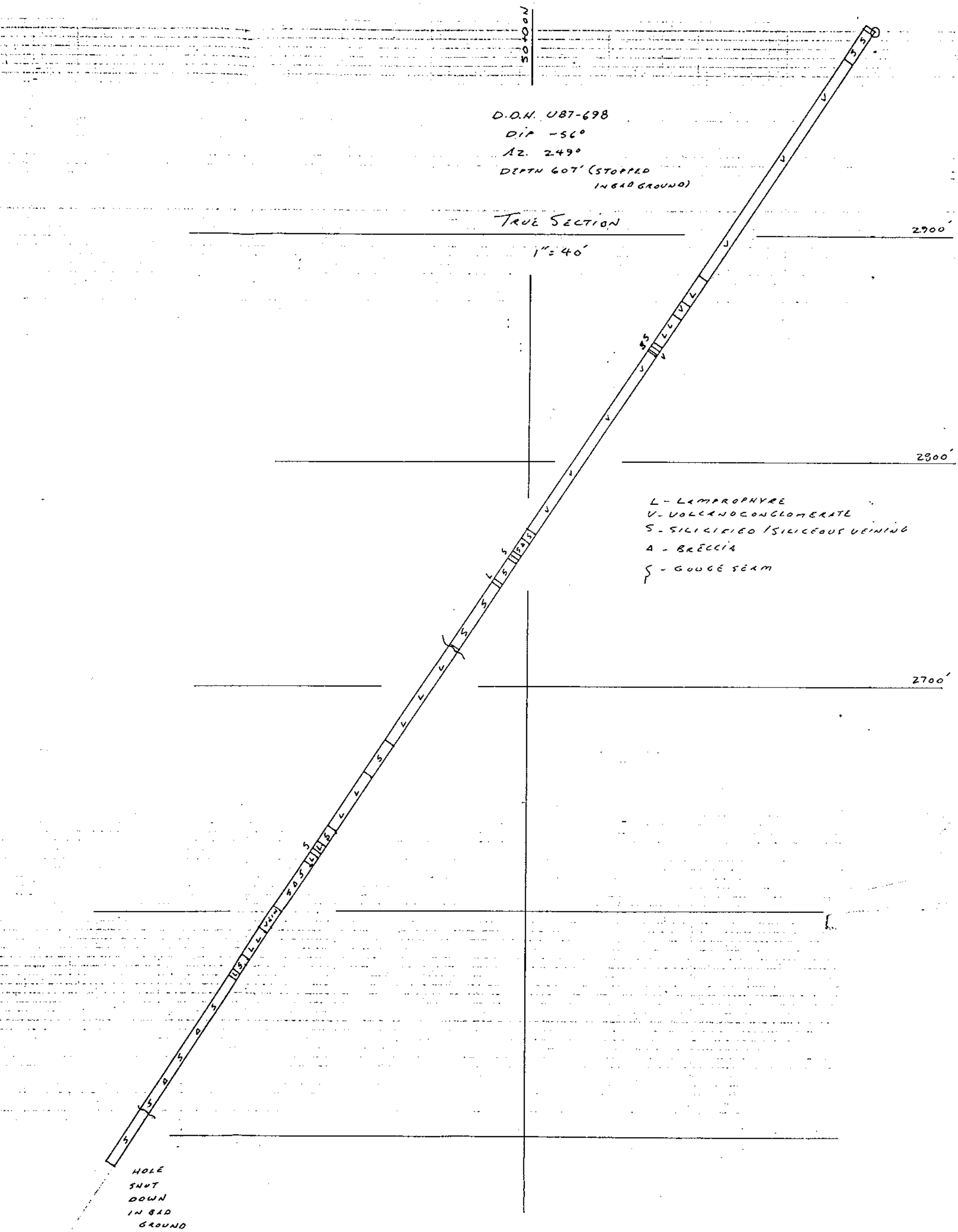
LOCATION JUST ABOVE RAMP ON 3000 LEVEL

COLLAR	Northing	32+54N	REMARKS
	Easting	69+54E	
	Elevation	2991	
DRILLED	Azimuth	239°	
	Dip	-56°	
	Depth	607'	
Da·Mo·Yr	Started	OCT 11/87	
	Completed	OCT 14/87	
	Logged	OCT 14/87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE DRILL IMMEDIATE N.W. OF FAULT BACK TO WEST.

RESULTS SITUATION CONFUSED BY MAJOR SWARM OF LAMPROPHYRE DIKES. HOLE LOST AT 607' - NOT M.S. FAULT.

GEOLOGIST R. MACINTOSH Da·Mo·Yr 14/10/87


SOUTH
D.D.H. U87-698
Dip -56°
Az. 249°
Depth 607' (stopped in bad ground)
True Section
1"=40'
2900'
2900'
2700'
L - Lamprophyre
V - Volcanoconglomerate
S - Silicified / Siliceous veining
A - Breccia
ʃ - Gouge seam
HOLE SHUT DOWN IN BAD GROUND

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 87-69

DIAMOND DRILL RECORD ——

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
0	2	Casing									
2	18.5	Siltstone, dolomitic, argillaceous, calcareous									
		slg pop. alt. mild to mod. alt. throughout core									
		4/6° qtz stringers 80°CA barren to 25									
		sub parallel to CA fracturing up to 20%									
18.5	67	Dolomitic argillaceous mod. to well alt.									
		usually 1-3" sub parallel stringers QF									
		+ QC stringers sub perpendicular to									
		CA 3/8" thick trace Sx									
107	133.5	Dolomitic argillaceous mod. strong to well alt.									
		generally obscured fracturing									
		QF + QC stringers mostly < trace Chl. alt									
77	78'	QC vein 1/2" Chl. alt. trace Sx									
73	74	broken core, pebble zone									
133.5	147.5	Dolomitic argillaceous siltstone									
		brecciated, cemented by QFA									
		strong alt. 141.5 - 147.5 fracturing									
		soft 145 fold zone, fracturing									
		Sx throughout									
147.5	[illegible]	Dolomitic argillaceous mod. to well alt.									
		banded QFA 1/2-1" QC stringers with									
		mod. Chl. alt. throughout, trace Sx									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 098

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		Po <10% throughout · [illegible]									
		[illegible]									
154	169.5	[illegible]					S				
		+ felds trace to minor diss Sx strong									
		alt 168-169.5 Po/Py filled fractures up									
		to 40%									
169	171.5	Q Calcite vein strongly alt wallr?									
		QC vein - 20% Sx bone white calc no									
		chl. visible · wallr? pale gn color, 1mm									
		(1/16") bl. frags. H<5 erratic veins QC									
		stringers no other visible chl. [illegible]									
		difficult to distinguished [illegible]									
		[illegible]									
[illegible]	[illegible]	[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
		[illegible]									
[illegible]	[illegible]	[illegible]									
		[illegible]									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 645

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		5x 30% w-blanks									
[illegible]	[illegible]	Volcaniclastic sub-angular to									
		closely fractured dacite rock [illegible]									
		pervasive chlorite-sericite alteration									
		moderate to strong chl-ser alt									
		localized by chl veins, <1% disS									
		Intermixed with transport sil									
[illegible]	[illegible]	blocky broken core Volcaniclastic									
		dk grey, mod strong chl alt									
		closely 1" core breaks, 2½" block									
		PERA disSed blebs 5-10% mild-									
		mod mil localized by chl veins									
[illegible]	[illegible]	massive breccia									
[illegible]	[illegible]	Volcaniclastic sedimentary units									
		mod strong chl-sericite alteration									
		less fine breccia									
[illegible]	[illegible]	volcaniclastic sedimentary units									
		mod-strong chl-sericite altered									
		blocky core 1-2" chl-sericite									
		fractured & brecciated clasts & matrix									
		block core pebble-mod bx 6"									
		645-1682.5-1685									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. 98

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DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
2.05	207.5	Coarse grained Sheared Diorite									
		Pale Siliceous Alteration									
207.5	208.5	Siliceous breccia zone with quartz									
		Core is 20% mafic fragments									
		Fragments in Pale									
208.5	209.5	Siliceous Intermediate Dyke									
		quartz chlorite matrix with									
		up to 2% blebby pyrite									
209.5	210	Coarse Intermediate Dyke									
		209.5 - 210.5									
210.5	211.5	Siliceous Intermediate Dyke									
		Fragments with chlorite									
		Intermediate Dyke									
		Intermediate Dyke									
		Pale Dyke									
211.5	212.5	Intermediate Dyke									
		Intermediate Dyke									
		Intermediate Dyke									
		Pale Dyke									
212.5	213	Intermediate Dyke									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. [illegible]

Page 6 / 10

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
		Silt to pebble breccia, rock chips,									
		clasts strongly chloritized, minor									
		1/4" qtz veinlets, chl alt									
[illegible]	[illegible]	Silicified breccia, weak qtz veining									
		bleached, hematite & chl veinlets,									
		minor chl & hem clots, weak									
		med to locally strong chl alt, weak									
[illegible]	[illegible]	gouge - silt to pebble sized									
		broken core									
[illegible]	[illegible]	lamprophyre dyke - fine grained,									
		medium grey, 2% 1-2 mm qtz eyes,									
		all moderately chloritized, strongly									
		fractured, broken, fault gouge,									
		silt to pebble size, 20% chrysotile									
		5% 1-5% limonite, 2% red brown									
		blebs 10% and fgt.									
[illegible]	[illegible]	Silicified breccia, bleached, weak									
		med grey, bleached & chloritized									
		bleeding slag on all core surfaces,									
		clay gouge on all core surfaces,									
		[illegible]									
[illegible]	[illegible]	Lamprophyre dyke (silicified breccia)									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. [illegible]

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
391.5	400	Sil breccia lamp contact: lamp									
		breccia clast in all rock									
		breccia lamp. brecciated in									
		stringers, diss Sx 10%									
400	405	lamp dike: dk gy - porphyritic w/									
		rounded lt. hornblende phenocrysts									
		in dk. fine grained matrix									
405	428	lamp dike - med gy, brecciated									
		Sx's very abundant throughout									
		brecciated by quartz veins									
		408-409.5 rock broken up by									
		water, solute rock crushed									
428	437	Black fine grained dike									
		lt. yellow-green phenocrysts									
		diss Sx and chalcopyrite									
		all clast supported									
		435									
437	441	lamp dike: and dk gy med-fine									
		ash fine hornblende crystals									
		in fine grained dk matrix									
		flaked with.									
441	447	siliceous breccia grades to									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 92-

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		boarder of all lamprhyre dikes calcium veinlets						
443	447	lamprhyre dikes as in 423-441						
447	457	v.f. brecciated blue qtz. / carbonate matrix Cloudy w/ abundant stringers stockwork throughout core locally 5%						
457	472.5	v.f. brecciated pale grey silicified similar to 447-457 interval of lamprhyre dike sub parallel to CA 428-432.5 blocky core zone						
472.5	474	banded grey stockwork of recrystallized wallrock breccia, blocky core						
474	480	interbedded v.f. brecciated to bl. stockwork recrystallized grey qtz. veins, blocky core to 475 then increasing breccia to 480						
480	497	lamprhyre dikes v.f. stockwork veining all 485-487 zone of 5% pyrite 487-488 is crushed and all blocky core thereafter to 491-492.						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 68-8

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
494	525	Quartz-pyrite qtz-carb. alt/breccia zone									
		Andesite intensely silicified, well sch									
525	528	lamprophyre: bl. brn. fine, phenocrysts extremely abundant & oriented									
		& silicified silty sediment fragments.									
528	532	Silicified int. breccia - blue-gy.									
		w/ numerous sub-angular sediment									
		breccia clasts <1/4" dia. trace py									
532	539	Int breccia: bleached cryptocrystalline									
		med-strong alt of clasts, intensely									
		sil. chl. bearing II to CA between									
		537-539' trace-1% py blebby/vein									
539	557	Int breccia: blue-gy, very low %									
		large 2-3" qtz-carb clasts (some of									
		which are bleached throughout									
		clasts) with med-strong sericite, local									
		banding & chl alt, trace-1% py									
		blebby/vein									
557	574	Int breccia: blue-gy-green									
		intensely silicified fragments throughout									
		from 532-557, scattered chl. alt.									
		veining & bl. chl.									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 699

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
579	581	Sil gouge - broken vesicular qtz vein									
581	592	brecciated qtz veins w/ - med qy QC & QF breccia clasts in sil matrix.									
592	602	Vol breccia: blue qy as for 557-579									
602	607	missing (fault)?									
		EOH 607'									

ROYAL E 10963-M6

DDH NO. 681

DIAMOND D

Page 1 /

LOCATION #2 Shaft off 3000 drift

COLLAR	Northing	30+60	REMARKS
	Easting	72+81	
	Elevation	3010'	
DRILLED	Azimuth	182°	
	Dip	0°	
	Depth	402'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept/87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	-	

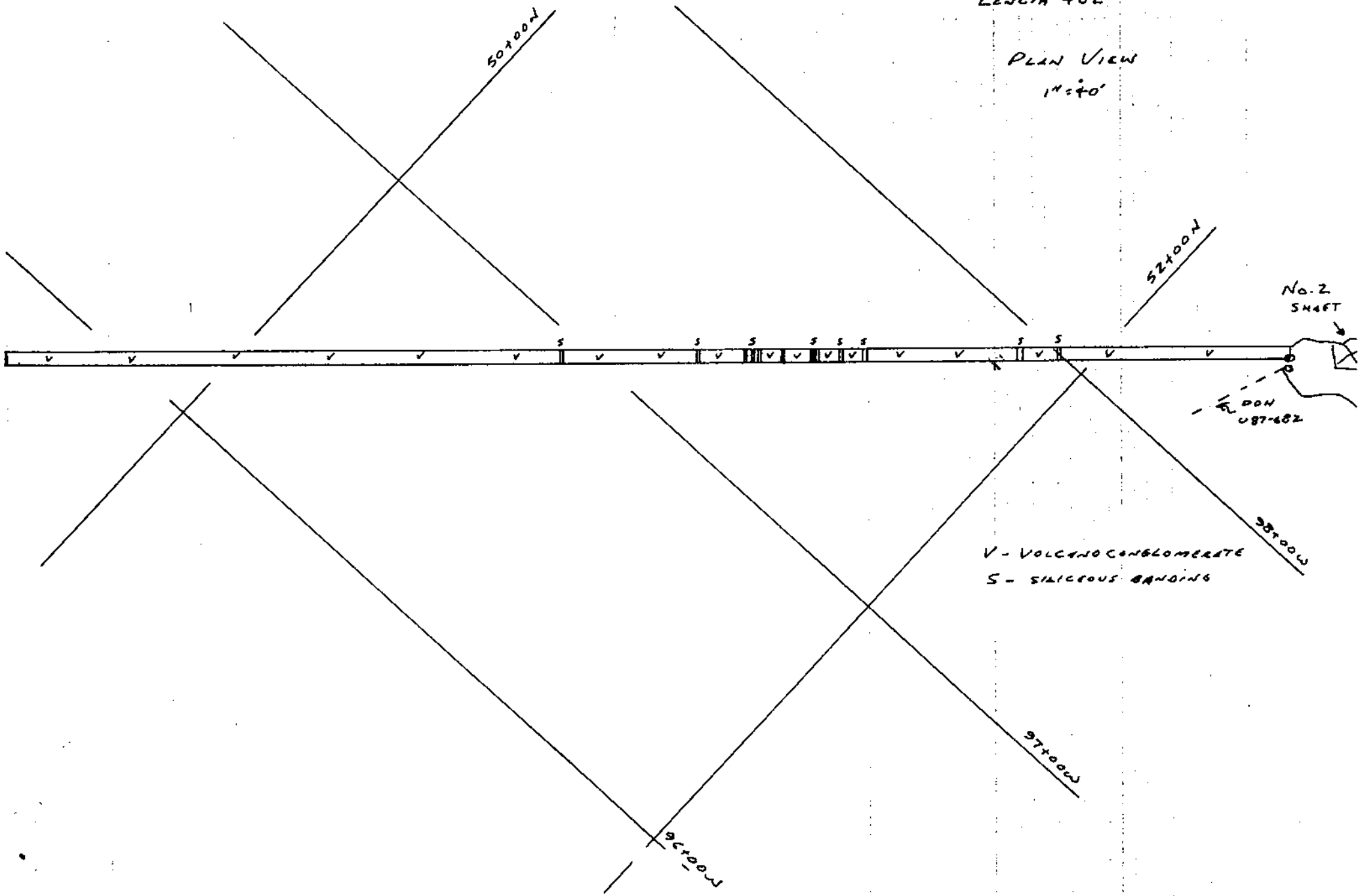
PURPOSE To test eastward extension of Main Zone and L Zone

RESULTS S 34029-34042

GEOLOGIST Rory Mackintosh Da·Mo·Yr Sept 10 '87

DDH U87-681
Dip 0°
Az. 182°
Length 402'

PLAN VIEW
1" = 40'



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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. U87-681

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General - volcano glom host. m-dk gn, usually matrix supported min clast size ~ 1/8", max size 5" model size ~ 3/4 - 1" subrounded to subangular clasts; qtz + QC veins at 45° to 70° to CA, some veins showing mild shearing. Sx accompanies qtz enrichment 152'-178'. Unusually mild prop alteration to unaltered in Sx zone.						
0	3.5'	Volcano glom - m-dk gn matrix sup. QC veining 70° to core, min chl. alt Sx: py, po in blebs up to 1/4", 1% of rock						
3.5	5	Volcano glom - becomes clast supported, with clasts 0.5" to 4" mostly rounded. Sx infilling between clasts, mainly py, min po. 1% total rock.						
7.9	8	white qtz stringer, rock becomes matrix supported again						

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SUMMIT LAKE MINE

DDH NO. 681

DIAMOND DRILL RECORD

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
14.9	15'	wh. qtz w/ fds						
21.5	21.6'	wh qtz w/ fds vein ⊥ to core - min. chl. alt						
23.9	23.7'	wh. qtz w/ fds vein, chl. alt; 5x blebs 1/4" + the stringers 1/8"; some shearing w/ elongated wall rock frags in shear						
57.4	59.5'	QC stringer 45° to core, w/ dissem 5x 25% of stringer						
69.1	69.2'	qtz shear, 45° to core. 5x blebs up to 1/4" make up 25% of shear.						
	72.8	qtz shear 2", wall rock frags in min brecciation aligned parallel to shear, min. chl. alt. minor 5x						
75.9	80.5	strong chl. alt.; rock colour lt. green; clast bndys obscured by alt; pore spaces appear filled w/ qtz + 5x						
80.5	80.7	highly altered zone w/ bleached clasts matrix replaced by qtz w/ min fds + 5x in 1/8" blebs + fine stringers.						
81.4	81.5	qtz shear w/ bl-gn chl.; strong chl. alt. w/ 5x blebs + stringers.						
82	82.6	shear zone perp. to core; frags obscured by strong alteration, textures						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 681

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		of ghost fracs aligned w/ shear;						
		chl.; 15% qtz, 15% Sx in blebs +						
		stringers aligned w/ shear.						
82.6	85	mod. prop. alt clast bodies obscured						
		blebs up to 1½" strong chloritization						
85	88	mild prop. alt.						
88	93.4	unaltered rocks						
93.6	94.5	shear zone w/ chl. alt. + bleaching						
		of fracs; Sx blebs in qtz at 94.'						
96.5	98	mod. prop. alt.; clast bodies blurred						
101.5	102.5	broken core						
117.9	118	minor fracs, min chl. alt.						
120	122	mild prop alt.; clast bodies blurred						
	122.1	qtz vein w/ bl. chl. + mod. chlor. alt;						
		Sx blebs + stringers						
128	130.7	mod. prop. alt.; clast bodies obscured;						
		local mafic mins have corroded						
		edges Sx stringers near qtz vein at 130.7						
130.7	131	qtz vein, sheared, white + smokey; chl.			34029	.3'	.095	2.71
		alt in fracs, sulphide blebs + stringers						
		hematite 10% in stringers in shears						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 681

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
138.5	139.1'	qtz enriched zone w/ chl. alt. + Sx stringers			34030	.6'	.006	.04
144.7	144.8	qtz vein w/ bl + gn chl. py, po blebs + stringers; hematite stringers			34031	.1'	.012	.06
144.8	151.8	mild prop alt. to unaltered						
152.6	156.6	qtz enriched zone, locally fractured, unaltered to mildly prop altered w/ bleached clasts py, po, infilling between clasts + in fracs (10% of rock)			34032	4'	.007	.06
156.6	156.8	qtz vein, brecciated, unaltered w/ min Sx						
157.1	158.8	qtz enrich. zone weakly to mod altered bleached, sheared and frac clasts, Sx frac-filling along sheared areas ad infilling between clasts: clasts dotte along shear + distorted; py+po up to 15% of rock			34033	1.7'	.009	.08
158.8	159.2	qtz vein, white, fragmented w/ blebs of Sx + stringers in fracs			34034	.4'	.014	.60
159.2	159.7	qtz-enrich. zone as for 157.1-158.8; some oxidizing of sulphides			34035	.5'	.01	.9
159.7	160.5	qtz vein, wh + gy; fragmented (up to 1/2") fragm, strongly altered, sheared			34036	.8'	.005	.07
160	163	qtz-enrich. zone, sheared as for 157.6-158.6			34037	3'	.006	.07
163	166.9	qtz veins up to 2", some hematite clasts			34038	3.9'	.007	.55

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SUMMIT LAKE MINE

DDH NO. 681

DIAMOND DRILL RECORD ——

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
167	171?	unaltered to weakly altered locally			34039	4'	.005	.07
171	175	mildly sheared, min qtz veins (5%) clasts			34040	4'	.004	.03
175	178.3	unaltered to slightly distorted local chl.; py+po in qtz veins, along fracs + infilling between clasts (5x 10-15%) Min hematite stringers			34041	3.3'	.005	.04
185	185.5	qtz enrich.; sheared, chl. + prop alt, 5x py, po, asp (5-10%); hematite, 10%; total 5x ~25% 5x in blebs up to 1/4"			34042	.5'	.024	4.30
185.5	204.5	Volcano glom; unaltered to mild prop alt; qtz veins up to 1" perp. to core w/ py, po, he make up <5% of rock <5% 5x infilling between clasts						
204.5	206	qtz enrich. zone sheared (60° to core axis. clasts scumbled, distorted oblate 5x: py, po + hem.			34043	1.5	.016	.51
206	227	Volcano glom - unaltered, occ. qtz veins up to 1" w/ mild local chl alt; py+po in blebs + dissem throughout <5% of total rock						
227	228.1	qtz-enrich. vein w/ po+hem			34044	1.1	.15	.05
228	234	unaltered						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 681

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
234	235	qtz. vein, wh. w/ min bl. + gn. chlor 2" across 20° to core axis, no Sx									
235	239	unaltered volcano glom									
239.	239.2	qtz. vein, white, bl. + gn chl; py, po									
239.2	245.2	unaltered volcano glom									
245.2	245.5	qtz. vein perp. to core, fds; bl. + gn. chl.; sulphide in adjacent wall rx for 1" talcy - fault gouge?					34045	.3'	.004	.01	
245.5	256	mild prop. alt.; clast boundaries obscured poss. gouge									
256	257	broken core									
257	258.5	strong prop. alt.; no clasts visible rock, uniform dk. gn, homogenous, w/ min. Sx blebs									
258.5	284.9	volcano glom: unaltered to weakly alt. locally siliceous, minor local gr chl Sx dissem or blebs < 1% total rock									
284.9	285	qtz vein; white w/ minor gn. chl. + fds minor wall rock breccia, no Sx 45° to core axis.									
285	301	volcano glom: unaltered to weakly alt., locally siliceous, w/ qtz/fds veins;									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 681

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
301	306.5	mod. prop. alt.; clast bodies obscured 2" qtz vein at 305'						
306.5	307.5	qtz vein, wh., wall rock frags chloritized; V. min. dissem Sx; bl. +gn. chl; soft crumbly fault?			34046	1'	.004	.01
307.5	315	volcano glom; mildly alt., slightly bleached; clasts distorted w/ Sx in blebs + stringers between clasts.						
313.5	314.5	core broken and missing.						
315	326	volcano glom: unaltered to mildly alt.						
326	355	unaltered to mildly alt; minor dissem Sx qtz veining up to 1" at 45° (10% of rock); core badly broken.						
355	357.8	mildly alt., occas qtz. stringers w/ chl. alt. + Sx.						
357.5	383.5	moderately alt. clasts obscured, min qtz. veining at 45° to CA dissem Sx						
383.5	384	Silicia enriched, strongly altered bl + gn. chl., 20% Sx						
384	400	mildly alt. dissem Sx; clasts occas. corroded.						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 681

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DISTANCES		DESCRIPTION	Sx		SAMPLE		ASSAYS		
From	To		Py	Po	Number	Width	Au	Ag	
400	402	silica enriched, strongly altered							
		bl+gn chl. 20% Sx, hem.							
		EOH 402'							

ROYAL SCOT

DDH NO. 82

DIAMOND DRILL RECORD

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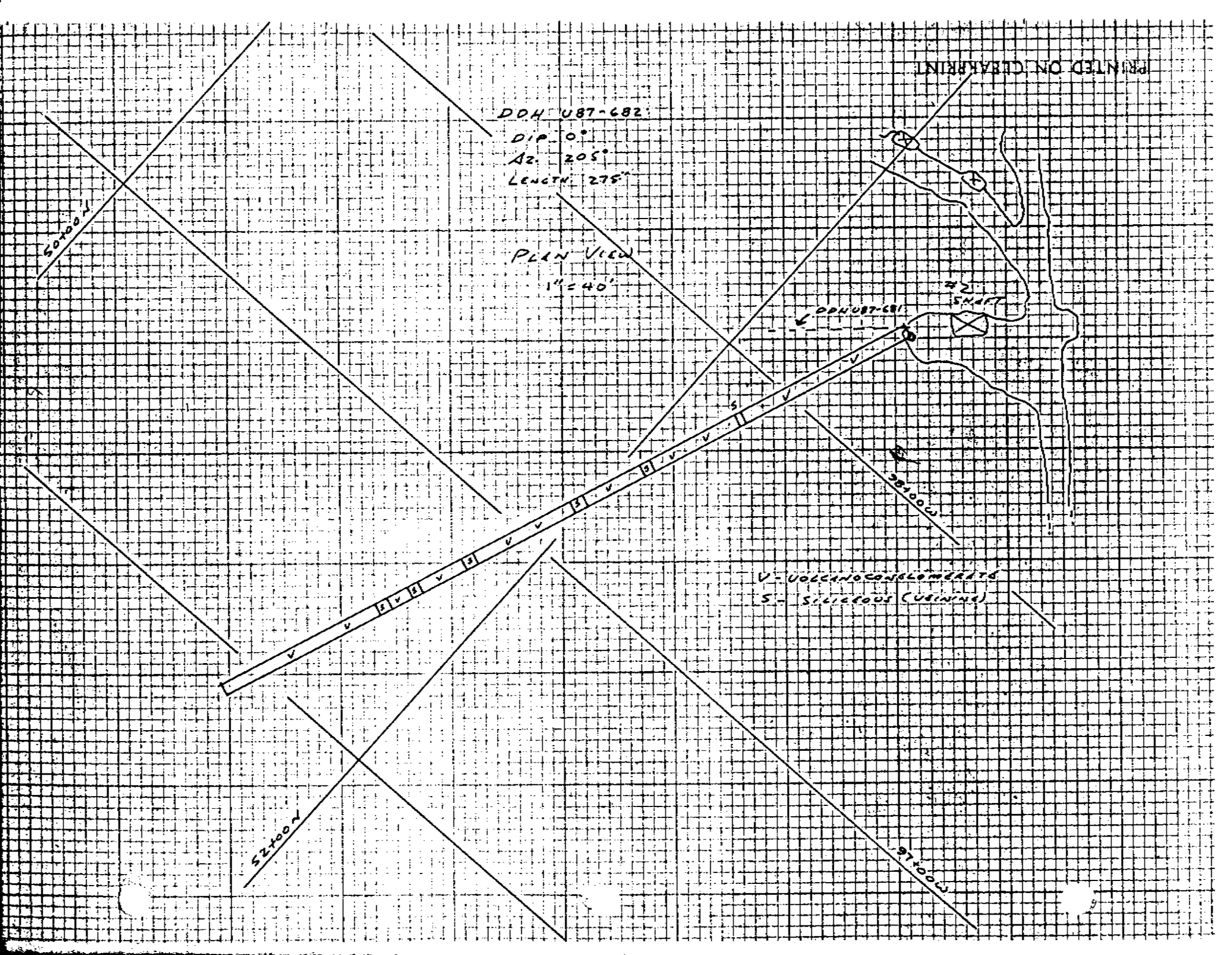
LOCATION 3000 level #2 shaft

COLLAR	Northing	52+46 N	REMARKS Samples Au Ag / width
	Easting	98+45 W	34101 - 34109
	Elevation	3004'	
DRILLED	Azimuth	205°	
	Dip	0°	
	Depth	275'	
Da · Mo · Yr	Started		
	Completed		
	Logged	Sept 16/87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To delineate eastern extent of the main and L zones on 3000 level

RESULTS Best assay 34105 Au 0.011, Ag 0.20 196-198' width 2'

GEOLOGIST Jo Larkin Da·Mo·Yr Sept 17/87


PRINTED ON CLEARPRINT
DDH U87-682
DIP 0°
Az. 205°
LENGTH 275'
PLAN VIEW
1" = 40'
#2 SHAFT
DDH U87-681
50+00 N
36+00 W
52+00 N
97+00 W
V - VOLCANOCONGLOMERATE
S - SILICEOUS (UDININE)

ROYAL SCOT

DDH NO. 682

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	18	Volcanic breccia – mod to dk green, light grey fragments up to 4", generally about ¼ to 1" mild prop alteration, few QC stringers, minor disseminated Sx mainly Po, minor green chlorite						
	95	1" thick quartz-feldspar vein, ¼-½" black chlorite blebs minor Po						
18	18.3	banded siliceous core, blebs of bl. chl., Py, Po weak prop alt						
18.3	20	broken core, mod siliceous, erratic QC stringers mild prop alt						
20	22	Po blebs & stringers up to ½" thick, mild to mod alt, few thin QC stringers, minor black chlorite						
22	23	broken core, erratic x-cutting stringers Sx blebs, mild prop alt						
23	29	mild-mod prop alt, erratic Q stringers, few Po blebs						
29	30	broken core						
30	31	strongly prop alt, banded siliceous core, green black chlorite, 10% Sx						
31	39	mild-mod alt, minor dissem Sx and chlorite, erratic Q stringers						
39	40	1" Q vein 80° CA, bl. chlorite blebs and minor Po						
40	42	mod to strong alt, 5% bitty blebs, large chlorite blebs						

ROYAL SCOT

DDH NO. 682

DIAMOND DRILL RECORD

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
42	45	2" thick quartz vein, 10% Po blebs & stringers mod strong prop alt						
45	67.5	mod - mild prop alteration, minor dissem Sx, few erratic Q stringers, few Q veins up to 1" thick 45-60° to CA with associated bl chlorite & minor Sx blebs						
67.5	68	strong alt, banded smoky Q vein, 20% Sx stringers filling fractures			34101	1'	0.007	0.35
68	68.5	mod prop alt minor Sx						
68.5	69.5	banded siliceous core, Sx blebs up to ¼" strong prop alt						
69.5	78	mild - mod prop alt, few Q stringers, minor dissem Sx						
78	79	strong prop alt, siliceous matrix, minor Sx						
79	93	mod - strong alt, few Q stringers with assoc Po stringers <5%						
93	85.5	strong prop alt, 1" thick Q vein 45° to CA with Po blebs and stringers up to ¼" thick, banded siliceous core with smoky quartz, 15% Sx.						
85.5	88.5	mod - strong alt minor Sx						
89.5	90	strong alt, banded siliceous core, 10% Sx stringers						
90	91	broken core, bl chlorite blebs in quartz fractures mod alt						

ROYAL SCOT

DDH NO. 682

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
91	96	mod alt, minor Sx, few Q stringers						
96	96.5	light green strongly altered matrix, Po & bl chlorite blebs						
96.5	104	mod + strong alt, zones of broken core at 97-104, 103-104, mod siliceous matrix, <5% Sx and bl chlorite blebs						
104	106	strong alt banded siliceous core, Q veins up to ¼" thick 90° to CA, 20% Sx			34102	4.3	0.006	0.01
106	109	strong alt, 3' cont ½" quartz vein // to CA interwoven with Po stringers (40% of Q vein)						
109	113.5	strong alt, siliceous core 10-20% Po, bl chlorite present						
	113.5	3" thick quartz vein, 45° CA, bl green chlorite minor Sx						
	114.5	bl chlorite filled shear ¼" thick						
114.5	118	mod alt, few Q stringers minor disseminated Sx						
114	120	intensely alt siliceous banded core, 30% Po/Py, minor bl chlorite			34103	1.5'	0.004	0.01
120	124	mod-strong alt, erratic Q stringers, minor Sx						
124	124.5	bl chlorite / Po filled shear 25° to CA						
124.5	151	mod altered, few Q stringers, minor Sx			34108	2.5	0.095	0.01
		some broken core 126-127, 3, ¼" chl stringers at 145' 45° CA		34107	(130-132.5)		0.006	<0.01
151	152	Po / bl chlorite filled shear, strong alt						

ROYAL SCOT

DDH NO. ____

DIAMOND DRILL RECORD ____

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
152	156	mod alt, few stringers, minor Sx						
156	157	banded siliceous zone; strong alt, bxg & chlorite blebs, Po stringers <10%						
157	162.5	mod-strong alt, few 1" thick Q veins 90° CA, gen/ & chlorite, minor Sx, 2" banded siliceous shear, & chlorite & Po blebs at 162.5						
163	168	mod alt, few stringers, 1" thick Q veins minor Sx						
169	171	strong alt, siliceous, minor chlorite, Sx						
171	176.5	broken core, mod alt, minor Sx						
176.5	178	intense alt, very siliceous banded core stringers of Po ¼ to CA 30% of core			34104	1'	0.005	<0.01
178	193.5	broken/blocky core minor Sx & & chlorite, mod alt						
194	199.5	strong alt, 30% Sx blebs & & chlorite banded siliceous matrix			34105 (196-198)	2'	0.011	0.20
199.5	201	strong alt, banded siliceous matrix, minor Sx						
201	209	strongly alt siliceous matrix, Q & Po stringers 80° CA <10% Sx						
209	213.5	strong alt banded siliceous vein, Po blebs up to ½", 10-50%, minor & chlorite			34106	2'	0.009	0.07
213.5	214.3	mod strong alt, few Po blebs						
214.3	214.75	banded siliceous core, 10% Po stringers/blebs						

ROYAL SCOT

DDH NO. ____

DIAMOND DRILL RECORD ____

DISTANCES		DESCRIPTION	Sx				SAMPLE		ASSAYS		
From	To		Py	Po			Number	Width	Au	Ag	
216	216.75	strong alt, banded quartz, minor disem Po									
216.75	217	mod alt no Sx/Q									
217	217.5	smoky banded Q vein 45° CA, disem Po blebs / stringers 10%									
217.5	220	mod alt minor Po									
220	221	banded siliceous core, Sx 20%, minor bl chlorite									
221	229.5	mild-mod alt, some broken core minor Sx									
229.5	232.5	strong alt banded Q, 30% Sx minor Sx									
232.5	235.25	mod alt, mod siliceous with some banding minor Sx/bl chlorite									
235.25	236.25	strong alt, banded siliceous core, numerous Po stringers (10-15% Sx)									
236.25	252	mod alt, minor Sx, few Q stringers									
252	252.3	banded siliceous core / Q-vein ¼" Po blebs 30% Sx, bl chlorite blebs									
252.3	253.5	mild alt									
253.5	255	mod alt siliceous core, bl chlorite blebs, Sx blebs up to ¼" 10-20%									
256	257	dark grey silty matrix, no Sx, green flecks in matrix									
257	261.5	mild-mod alt, few Q ½" bands, minor Sx/alt									
261.5	262.5	str. alt, mod sil. 10% Po stringers / gen bl chlorite									

ROYAL SCOT

DDH NO. ____

DIAMOND DRILL RECORD ____

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
262.5	263	str alt, strongly siliceous, 20% Po blebs, smoky Q, grn/bl chlorite						
263	271	mild - mod alt, broken/blocky core, minor & few Q stringers						
271	272	mod - str alt siliceous core 30% Sx stringers 2" <stock white Q vein // to CA, blebs of bl ch.			34109	1'		
272	276	mild - mod alt, minor Sx, few Q string						
		EOH 276						

ROYAL SCOT

DDH NO. 683

DIAMOND DRILL RECORD

Page 1 / ____

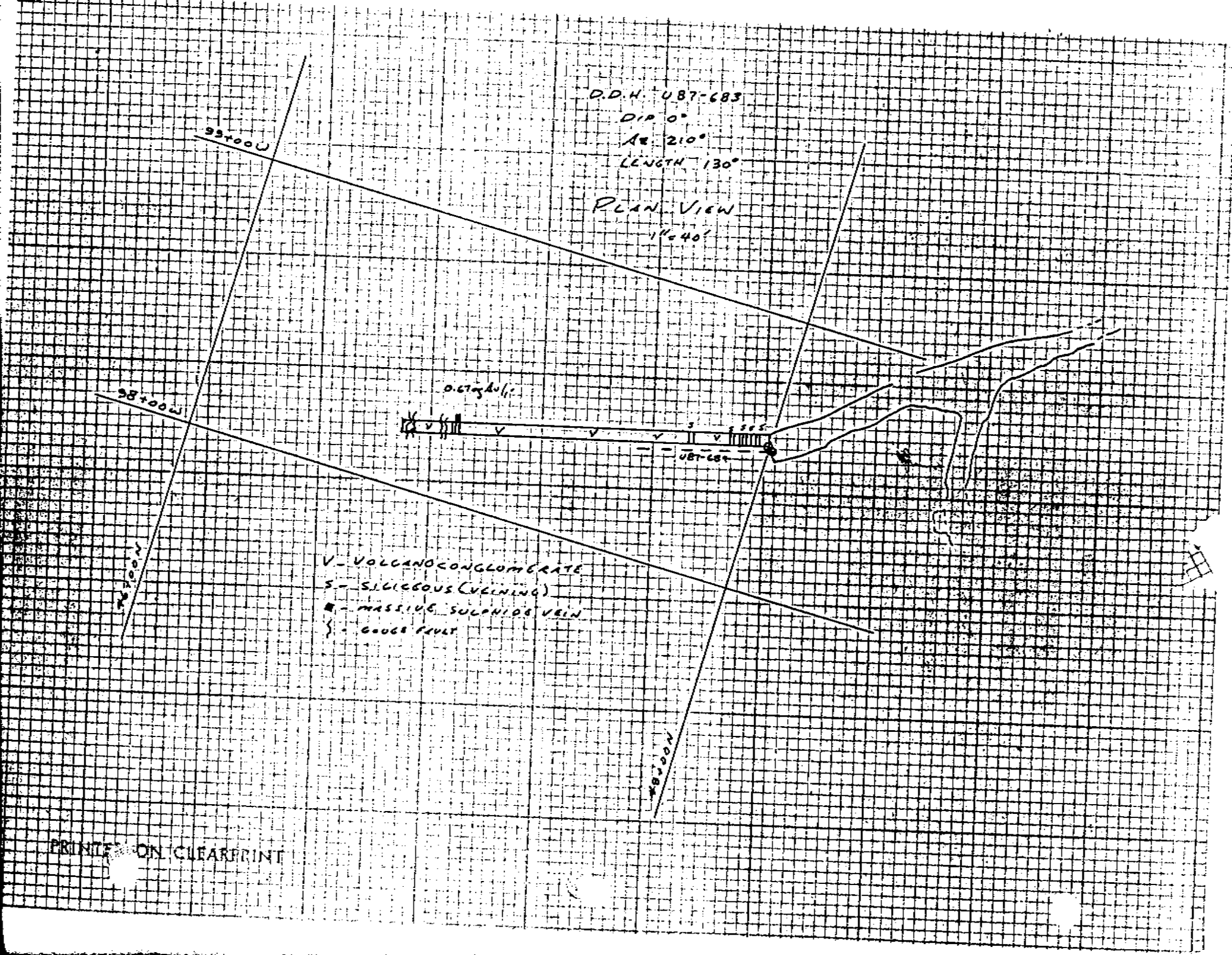
LOCATION 3000 level

COLLAR	Northing	27+55 ~~27+58~~	REMARKS
	Easting	69+62	
	Elevation	3010	
DRILLED	Azimuth	210°	
	Dip	0°	
	Depth	130'	
Da · Mo · Yr	Started		
	Completed		
	Logged	Sept 15/87	
EQUIPMENT	Machine	BTBU2	
	Core Size	BQ	
	Dip Tests	-	

PURPOSE To test West extension of 'L' Zone

RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr Sept 87


D.D.H. UBT-683
DIP 0°
AZ 210°
LENGTH 130'
PLAN VIEW
1" = 40'
99+00 W
98+00 W
0.67 oz Au/t
UBT-683
V - VOLCANOCONGLOMERATE
S - SILICEOUS (VEINING)
■ - MASSIVE SULPHIDE VEIN
} - GOUGE FAULT
N 210°
PRINTED ON CLEARPRINT

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 87-68

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		General: volcano glom: lt to dk gn., mtx + clast supported laced w/ qtz veinlets 1/4"-1", unaltred to strongly alt., alteration often occuring over as little as 18"									
		Minor Sx veining at: 0-14, 26.5-27, 110-111; Sx free veins at: 76.8-78.3, 86-88									
		Faulting: 108-110; 111-115, 126-130									
0	7.8	Volcano glom: lt gn, mtx sup. w/ bleached clasts, some local frac. brecciation, clast outlines corroded, mod. prop. alt., Sx (mostly po, min py) 5%; infilling between clasts and in fracs.									
7.8	14	Volcano glom: mottled med lt gn. wh + bn. silicified, strongly alt., banded qtz veins at irreg. angles, 10% po in stringers at 45° to CA and in blebs, min lor chl.									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 683

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
14	40.5	mod. alt., m. gn., locally banded									
26.5	27	clasts corroded + outlines blurred					34126	.5	.005	.01	
		5x 5% (mostly po. min py); strong									
		chl. alt. 26.5 27 w/ bl+gr chl.									
		Clast size increases to 2-3" from									
		34-40' and prop. alt. increasing									
40.5	50	speckled m. gn. + bl.; prop alt									
		increasing from mod at 40.5 to									
		strong at 50' where clasts no									
		longer distinguishable; speckling									
		(1mm) is black lapilli, angular to									
		rounded; Qtz (<2%) in irreg veins									
		around clasts 5x <1%									
50	59.4	speckled m. gn + bl w/ occ. wh.									
		streaks; strong prop alt; clasts									
		only visible where outlines by									
		infilling qtz veining (<2%); min									
		frac. brecciation (45.4-45.7) w/									
		infilling qtz.									
59.4	76.8	dk gn w/ bl. speckles; mod prop alt									
		w/ blurred + la bleached clasts									
		qtz + fds veins 1/8-1½" @ 45° to CA									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 683

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		At 70'-69.8' - broken core w/ wh. qtz + strong chl. alt. Qtz veins 5-10% of rock; no Sx.						
76.8	78.3	Qtz fds vein: banded w/ wh. qtz cream fds and streaks of speckled gn.+bl. highly alt. wallrock. Bands at +45° CA strong chl.+prop alt w/25% fds no Sx			34127	1.5'	.004	<.01
78.3	86	Volcano glom: as for 59.4-76.8						
86	86.8	Qtz fds vein: as for 76.8-78.3 but banding less distinct; wall rock frags visible in vein, no Sx			34128	.8'	.005	<.01
87	88	Qtz fds vein: as above, but less qtz, banding becoming poorer in qtz towards 88 no Sx						
88	95	Volcano glom: dk gn. w/ lt gn. blebs strongly alt. clasts not visible, 1" wh. qtz vein w/ min bl. chl. at 93' no Sx						
95	108	dk gn w/ bl speckles, mod prop alt: clasts visible but blurred						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 683

DIAMOND DRILL RECORD ——

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		very min. sil. banding at 45°						
		to core Rare po stringers 1/8"						
		thick total 5x << 1%						
108	110	core broken apparently mod						
		alt. as for prev. unit fault						
110	111	dk gn w/ bl. speckles; clasts			34129	1'	.671	.52
		elongate perp. to CA, streaked						
		+ banded w/ qtz + bl chl, qtz						
		increasing towards 111. po blebs						
		10% minor red mineral present.						
111	115	core shattered volcano glom fault						
115	122	dk gn strongly alt qtz veins 1/4" at						
		30° CA, no Sx						
122	126	dk gn w/ bl. speckles; mod alt.						
		minor splay of qtz. fds vein sub //						
		to CA at 124 fault						
126	130	badly broken core bl. chl. + 10% Sx						
		apparently mod. alt. volcano glom						
128	130				34130	2'	.006	<.01
		130' EOH						

ROYAL SCOT

DDH NO. 684

DIAMOND DRILL RECORD

Page 1 /

LOCATION

			REMARKS
COLLAR	Northing	27+55	
	Easting	69+62	
	Elevation	3010	
DRILLED	Azimuth	210°	
	Dip	-45°	
	Depth	127'	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	-	

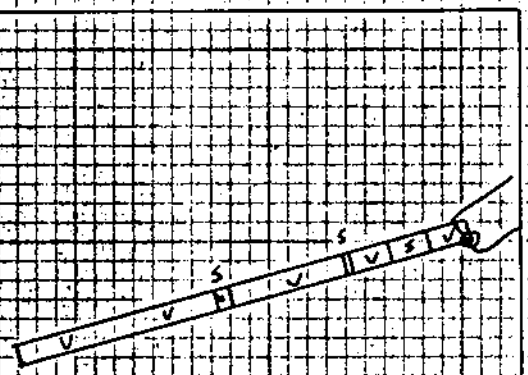
PURPOSE To test: Westward extension of 'L' Zone to depth.

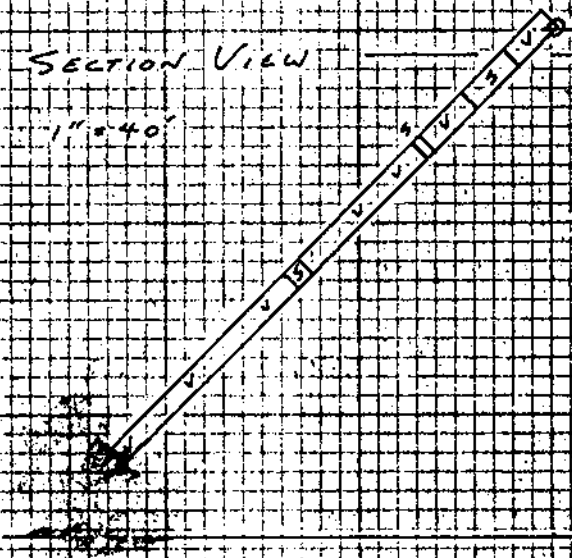
RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr

D.D.H. U87-684
DIP -45°
AZ. 210°
LENGTH 127'

TRUE SECTION VIEW
1" = 40'





V - VOLCANOCONGLOMERATE
S - SILICEOUS (ALTERING)

28+00W

U87-684

PLAN VIEW
1" = 40'

27+00W

NORTH

PRINT ON CLEARPRINT

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 87-684

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	10.1'	Volcano glom - m. gn; unaltered, clast supported, clasts subangular to sub rounded ~ 1/8 - 1" dia. 5% Sx infilling between clasts. wh qtz vein ~ 1/2" 30° CA @ 4'						
10.1	17.5	Volcano glom: m. gn; mildly altered						
samples 10	12'	clasts locally brecciated 5x			34131	2'	.066	∠.01
samples 12	14'	disseminated in blebs, 10%; prop			34132	2'	.014	∠.01
samples 14	17.5	alt, stronger down hole			34133	3.5'	.006	∠.01
17.5	20.5	Volcano glom: dk gn, strongly altered clasts visible only where outlined by thread of wh. qtz; some banded bl. chl + 5x stringers						
20.5	20.6	fracture: prismatic qtz.						
20.6	25	Volcano glom: as for 17.5 - 20.5						
25	35	Volcano glom: m-lt gn. w/ wh. blotches						
5 → 25	27	10% bl. chl; mod - strongly altered. strongly silicified. 5% Sx			34134	2'	.069	.03
35	45.5	Volcano glom: dk gn. w/ bl. speckle strongly altered. qtz/fds veins, 2" at 42', 45'						
45.5	51'	Volcano glom: m. gn., mildly altered						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 684

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		some bleached clasts; no Sx						
51	52	altered rock: volcano glom.: gy-gn. banded w/ dk gn. min bl. chl. strong hydrothermal alt. has erased clast outlines + replaced texture w/ banded unit. Clasts visible at edges of this v. strong, v. local. alterative zone.						
52	53.8	volcano glom: mildly altered						
53.8	64	volcano glom: m.gn. w/ bl. speckles alteration increasing from mild to med down hole, bleached matrix; No Sx						
64	71.5	volcano glom: mod. alt. qtz/fds stringers + veins at 70°-90°CA up to 3/4" local areas of strong alt (as in 51.-52') at 68.-69' no Sx						
71.5	78.6	volcano glom: as for prev. unit but no qtz stringers or veins						
78.6	78.7	qtz vein: perp. to CA, wh., no Sx						
78.7	79.4	volcano glom: st. mod alt. as before no qtz vein.						
79.4	79.6	Qtz vein: banded w/ bl + gn chl. 50°CA			34135	.2'	.005	∠.01

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 684

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
79.6	105	volcano glom: dk-med gn w/ bl. speckles locally weakly silicified, min blebs py, po, << 1%						
105	106.5	vein: banded gn, wh, dk red w/ blebs + stringers 5x (py+po = 25%) Sphalerite ~ 15%.			34136	1.5	.053	.56
106.5	109.4	volcano glom: strong-mod propalt. occas bleached clasts, thin qtz stringers						
109.4	109.5	vein: as for 105-106.5 but v. thin						
109.5	127	volcano glom: dk-med gn w/ bl speckles, strong to mod alt, clasts obscured or ill defined; qtz veins ¼-1" at 70° CA occas bleached clasts; dissem fn gr. 5x < 1%						
		EOH 127'						

ROYAL SCOT

DDH NO. 685

DIAMOND DRILL RECORD

Page 1 /

LOCATION 3000 LEVEL - UPPER RAMP

COLLAR	Northing	31+92	REMARKS
	Easting	69+94	
	Elevation	3010	
DRILLED	Azimuth	266°	
	Dip	-47°	
	Depth	417'	
Da · Mo · Yr	Started		
	Completed		
	Logged	Sept 23, 87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	-	

PURPOSE To test depth extension of West Zone

RESULTS

GEOLOGIST Rory Maclutad Da·Mo·Yr Sept 23, 87

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. 087-685

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General - mainly volcano glom, dk red gy, gn, mod alteration locally silicified w/ qtz veins + brecciation around veins. Sulphide mineralization (po) accompanies veining. Massive sulphides (po) 393.7-396.6, w/ smeared brecciated qtz/volcano glom for 1-2' on either side. Intersection angle vary approx 20° CA. Other qtz veins suggest hole may be drilled down structure making true thickness 5x 1.'						
		Spherolitic lamprophyre dykes occur frequently from 280'-417 (EOH) Dykes poorly mineralized						
0	19'	Volcano glom: m-dk gn w/ wh. streaks + grey mottles: clast size 1/4-2", matrix supported, unaltered to mildly altered, qtz veins 1/8" to 1" in 2 directions at 30° CA and 70° CA min. bt chl. no Sx						
		15-17' - matrix altered + highly						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 685

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		silicified w/ 5% Sx banded qn +wh. w/ 5% bl. chl.									
19	50'	Volcano alam: m. gy. qn; mildly altered; late ✓ stage qtz. stringers at 30°CA + 70°CA. Banded + brecciated qtz veins 30°CA at 27', 36'-43', 48'. These all contain Sx up to 20% and are probably same veining system. Wall rx altered up to 1" away from vein. Non-vein rx have no Sx. Thickness of veins ~4"-6"									
50	71'	Volcano alam: dk gy qn.; w/ wh. streaks mild-med alteration; matrix dk w/ occas bleached clasts; clasts subrounded. Qtz, qtz/fds w/ qtz. stringers up to ½" Mineralized stringers as above at 58.2' S (58.2-58.4)									
71	90.3	Volcano alam: dk gn gy; variably altered from unaltered to strongly altered, no Sx 84.5-85 mild									

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DIAMOND DRILL RECORD ____

DDH NO. 685

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		sintered texture w/ threads (1/32")						
		of qtz between fragg ~ 1/4"; no Sx						
		87-88 mild frac brecciation ad						
		veining ~ 30° CA w/ qtz veins						
		cracking clasts						
91	102'	volcano glom: dk gy gn: mildly						
		altered w/ some bleached clasts						
		+ alteration around clasts (nice						
		alteration halo eg at 93.5')						
		qtz stringers 1/4" at 80° CA make						
		up 5% no Sx wh. banded qtz						
		vein at 30° CA at 100.5 for 2"						
		5% bl. chl. 10% po sampled						
102	112'	vein silicified, intensely altered volc.-						
105	106.5	ano glom, lt gy gn, streaked + mottled			34144	1.5'	.004	<.01
		wh. + bn. clasts frequently dissolved						
		or squeezed out. ll to core						
		accompanied by brecciation; Sx ~ 5-10%						
		(po) po infilling fracs + pores; zone of						
		most intense alteration at 105-106.5						
		where rock is bleached pale tan +						
		strongly streaked + mottled w/ qtz +						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 6085

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
112	117.5	Volcano glom: dk gy gn; mildly altered to strongly altered: late stage qtz veining at 70°CA						
117.5	119.3	Vein: silicified intensely altered volcano glom clasts corroded frac w/ qtz, tpo infilling. Main frac dir ~ 20°CA Similar unit to 105-106.5 lt gy gn-buff			34145	1.8'	.005	∠.01
119.3	121	Volcano glom: lt gn, strongly altered clasts not visible						
121	121.9	Qtz vein: running ll to core half core qtz, half altered volcano glom. 10% po at ic contact of qtz/wall rock						
121.9	133	Volcano glom: dk gy gn; sl-mod alt; occas 1/4" qtz veins 70°CA; qtz fds vein 1½, 70°CA 129' no Sx						
133	167	Volcano glom: dk gy gn unaltered to mildly alt; clasts angular to rounded, qtz veins at 70°CA make up 2% of rock No Sx						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 685

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
167	183.5	volcano glom: dk gy gn, unaltered to mildly altered; as above									
183.5	186.5	volcano glom: m gy gn, no to mild alteration as above.									
186.5	187.8	lamprophyre dyke: v dk gy spherulitic w/ spheres of corroded hbl+plag 1/16" - 1/8" make up 20% of rock. Core broken at contacts H:4									
187.8	210.6	volcano glom: m. gy gn, as above 187.8 - 188.2: contact aureole w/ dyke. lt gn chloritized silicified									
210.6	230.9	bx volcano glom: lt to med gy gn, mild alt w/ some bleached clasts silicified + laced w/ qtz veins w/ vein bx + rare ruggy patches (vugs 1/16") 5% Sx (po) Frac 20° CA									
230.9	238	lamo dyke: as for 186.5 - 187.8									
238	240	bx volcano glom: silicified bx w/					34146	2'	.004	< .01	

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 685

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
240	245.2	lamp dyke: as before dk intersection approx 20° CA			34147	5.2'	.003	<.01
245.2	253.5	bx volcano glom: silicified bx w/ qtz veins as for 210.6-230.9 veining 10-20° CA						
253.5	259	lamp dyke as before intersection angle ~30°. Phenocrysts larger, up to 1/4" some angular.						
259	261.2	bx volcano glom: silicified bx 10% po blebs as for 210.6-230.9			34148	2.2'	.003	<.01
261.2	277	volcano glom: m-dk gn mildly alt. not silicified clasts clearly visible no Sx H:5						
277	280	bx volcano glom: streaked m.gn wh+ br. qtz vein alt as for 210.6-230.9 vein 10°CA 10% Sx(py)			34149	3'	.006	.02
280	290	lamp dyke: as above: dk gy w/ bl+wh. spots; rounded corroded plag+hbl phenocrysts, 1/16" - 1/4" hbl throughout plag concentrated in bands ~4" wide Intersects 20° CA						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 685

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
290	301.8	volcano glom: m gn, bl. brn. gy f.-m. blotches m. alteration silicified, occas bx (2°) from veining. Bl + gn chlor, 5x 5-20% sampled 299 - 301.8 - 20% 5x			34150	2.8'	.003	<.01
301.8	316	lamp dyke: as for 280-290 intersect 15° CA						
316	324	volcano glom: m gn, brn wh. blotchy silicified, mod-strong alt; some 2ndary qtz vein bx 10% 5x (po); 316-318 core is ½ this unit, ½ lamp dyke inters 0° CA						
324	331	lamp dyke: as for 280-290						
331	358.5	volcano glom: lt gn to dk gn to bl. mottled, streaked. Highly alt, but clasts visible in a few places Strongly chloritized w/ bl. + gn. chlor. Bl. chlor. mass; gn chlor in irreg splotches + stringers; H: 3-5 soft in areas of high chlor; 5x: 5% in blebs + accas						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 685

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		w/ chl. stringers throughout (po) (py), min <<1% (p). Qtz + QC veinlets ('/4") 11 + 1 to CA									
		vuggy w/ drusy qtz. at 332.5 + 336.9									
358.5	367	Volcanoglom: med-lt gn w/ wh. splotches + streaks w bl. speckles altered + silicified blotchy gn chl. + areas of uniform dk gy chlor alt. H:4.5 except where stongly chlor (H:3) 5x (po, py) 5% in blebs + stringers									
367	389.5	Volcano glom: dk gn gy mild to mod. alt thin qtz stringers (1/2") 1% of core. local min gn chlor not silicified no Sx									
389.5	391.2	Volcano glom: med gn + bl. streaks subtl to CA intense alt, silicified strong chl alt, w/ much bl. + gn chl. H:3.5					34137	1.7'	.009	<.01	
391.2	393.7	Qtz vein: wh. gn + brn streaks + blotches, contains frags + stringers of altered bl. chlor.					34138	2.5'	.076	<.01	

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ____

DDH NO. 685

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		wall rx (20%) Fds w/ chl. alt, 10%									
		Sx 10% in blebs									
393.7	396.6	Sulphide vein: dk brn/bl. core									
393.7	395	surface: gold metallic when					34139	1.3'	.485	.19	
395	396.6	split. Massive (90 %+) po w/ 10%					34140	1.6'	.555	.03	
		bl. chl. Qtz upto 20% in places									
		vein intersection ∠ approx 20° CA									
396.6	397.5	Qtz vein: as fx 391.2-393.7 w/					34141	.9'	.115	< .01	
		smeared alt wall rx and 20% po									
397.5	409.9	volcano glom: silicified strongly alt									
		ltgn-dkgn; much gn chl. H: 3-4.5									
397.5	400.5	depending on chlor content;					34142	3'	.005	< .01	
		407-409: qtz vein w/ alt wall rock					34143	1.'	.007	.03	
		20% po sub // CA									
409.9	410.9	lamp dyke: v dk gy w/ bl. specks									
		H: 4 much alt + corroded ? bl									
		phenocrysts (1/16 - 1/8") 2%									
410.9	417	volcano glom: med gy gn w/ bl.									
		speckles mod-strong alt w/ bl.									
		lapilli (hbl) rounded to subrounded									
		(1/8 - 1/16") 20%									
		EOH 417'									

ROYAL SCOT

DDH NO. 686

DIAMOND DRILL RECORD

Page 1 / 5

LOCATION Ramp off 3000 level down to 2900

			REMARKS
COLLAR	Northing	5090	
	Easting	10265	
	Elevation	2981	
DRILLED	Azimuth	255°	
	Dip	-10°	
	Depth	196'	
Da·Mo·Yr	Started		
	Completed		
	Logged	24/9/87	
EQUIPMENT	Machine	BBU 2	
	Core Size	BQ	
	Dip Tests		

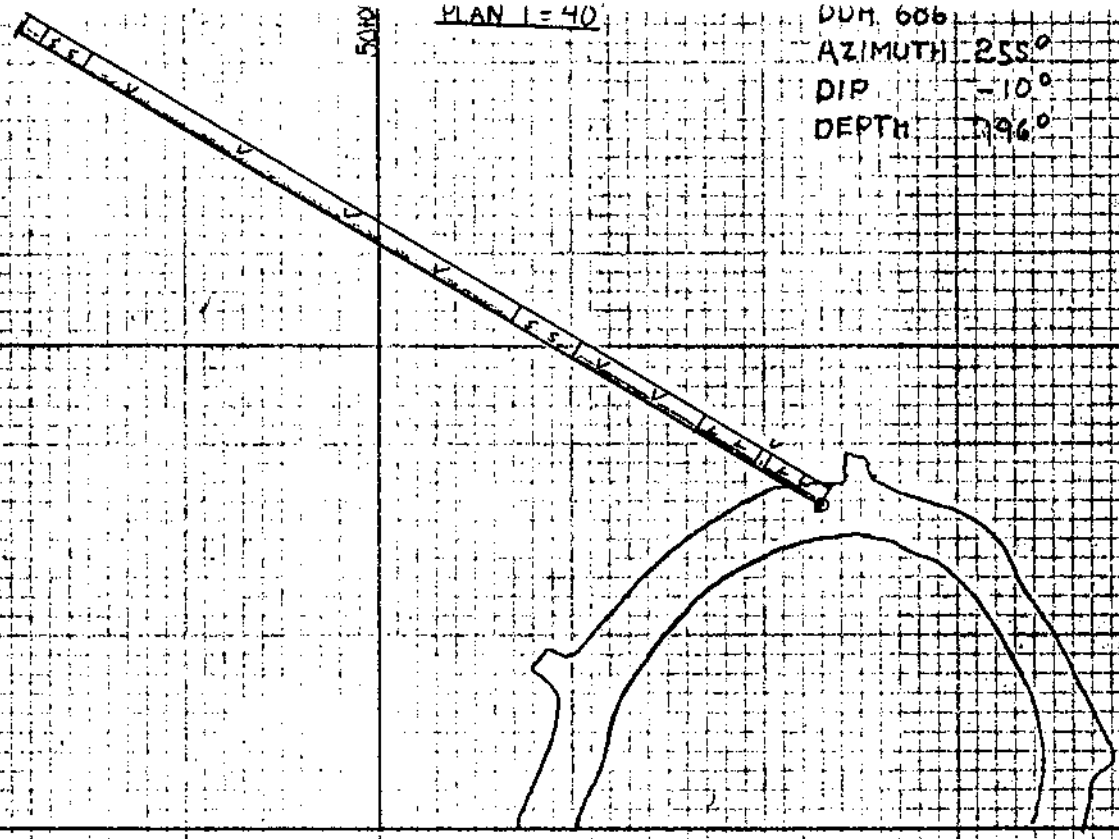
PURPOSE To extend westward, the West drift zone by drilling from the 3000 level ramp.

RESULTS

GEOLOGIST [signature] Da·Mo·Yr 24/9/87

PLAN 1 = 40

DDH 606
AZIMUTH 255°
DIP -10°
DEPTH 796'



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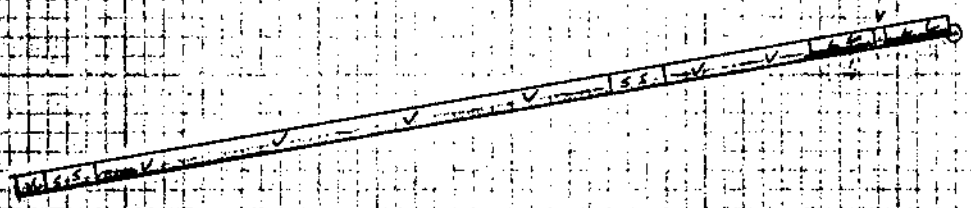

L - LEMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED/SILICEOUS (VEINING)

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 087-686

DIAMOND DRILL RECORD — J Parkin

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General: azimuth 255°, Dip -10° length 196' purpose; drilling from 3000 level ramp towards and beneath the West drift zone. Two veins were intersected at 61' and 179', the latter being the stronger of the two, with zones of massive (po) and bl. chl. The wall rock is a m gy gn vol generally with sub angular to rounded clasts <3" dia, mild prop alt and chloritic alt. Minor disseminated Sx were noted throughout. The first 50' is characterized by alternating lamprophyre dykes + wall rock. The lamprophyre dykes showed chloritic alt of hornblendic crystals near the first vein intersection veins are siliceous w/ strong bl/gn chloritic alt + Sx mineralization but showed little banding.						

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SUMMIT LAKE MINE

DDH NO. 6886

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	3.5'	lamp dyke: lt m gy, round to elong. black horn blende crystals, rounded wh. feldspars 2mm dia no Sx H:<5						
3.4	4.5'	Volcano glom: dk gy to black matrix, H:>5, rounded to sub angular clasts, lt gy gn, ½-1" dia, minor diss Sx, weak alt						
4.5	11.5'	lamp dyke: m gy, lt gy bleaching at 9.6', minor diss Py usually associated with lt gn chl. alt: hornblends + feldspars as before						
11.5	15'	lamp dyke: m-dk gy, darkening toward 15' v thin fractures 30% diss Py increasing toward vgl contact at 15' contact 11 CA						
15	18'	lamp - Volcano glom contact: contact 11 CA, marked by lt gn chl. filled frac. lamp - dk gy, minor Sx vgl - dk gy - black matrix, clasts v. obscure ½" thick qtz stringer 45° CA w/ Py + bl. chl. blebs						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 6886

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		diss Py in erratic frac ≃ 30%						
18	19'	lamp dyke: broken core, minor Sx + gn chl.						
19	31.5'	lamp dyke: dk gy hornblende chloritically altered to reddish-black H: 2-3, rounded; rounded feldspars as before, no Sx						
31.5	46'	Volcano glom: m gy, matrix, mod prop alt, stockwork of erratic qtz stringers, few clasts present observable are weakly altered, no Sx.						
46	49.75'	Volcano glom: dk gy gn, few qtz stringers w/ scattered Py blebs, minor black/gn chl.						
49.75	50.5'	lamp - volcan: contact; 11 CA no Sx						
50.5	53'	Volcano glom: m gy gn, unaltered, large (6" lt gy, black speckled clasts w/ minor diss Sx. zero qtz stringers 45° CA						

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SUMMIT LAKE MINE

DDH NO. 686

DIAMOND DRILL RECORD ____

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
53	56'	Bx Volcano glom: lt gy qz, brecciated matrix with many erratic qtz stringers w/scattered Py blebs matrix is mildly - mod siliceous.						
56	58'	Bx Volcano glom - qtz vein: lt gy qz strongly brecciated strongly siliceous matrix, clasts are mildly altered, few qtz stringers 10% Py blebs			34151	2'	.004	<.01
58	61'	Volcano glom: m gy, heavily fragmented matrix partly clast supported, mildly siliceous few qtz stringers, scattered Py blebs minor diss Py scattered bl. chl. blebs.						
61	72'	Vein: lt - m gy, siliceous						
61	63?	brecciated matrix, Sx 20-40%			34152	2'	.003	.01
63	65.5	bl./gn. chl. alteration at 63'			34153	2.5'	.005	.02
65.5	68.5	Sx stringers + alterations			34154	3'	.006	.01
68.5	70.5	trending 45° to CA, gn chl. blebs 5-15%			34155	2'	.004	<.01

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SUMMIT LAKE MINE

DDH NO. 6860

DIAMOND DRILL RECORD ___

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
72	75'	Volcano glom - dk gy gn mod brecciated clasts - sub angular - angular, 5x 15% in blebs + stringers, matrix mild mod-silic						
75	76'	Banded qtz vein - banding 30° CA, strong gn. chl. alteration, 5x blebs 5%						
76	80'	Volcano glom: m gy gn, strong chl. alt qtz feldspar bands 75°CA, minor 5x, occur as blebs mod silc. matrix.						
80	124.5'	Volcano glom: m-dk gy gn, mild prop alt clasts up to 3" dia. generally rounded, qtz feldspar bands ≈ 45°CA up to 1" thick scattered throughout every 1-2' minor 5x blebs + bl. chl sometimes cgbac, qtz stringers approx. 30-50% CA scattered throughout, mild mod chl. alt at 110						
124.5	126'	Volcano glom; bleached lt gy gn mod chl. alt, bl. chl. blebs						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 686

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		up to ½" 10% Sx blebs, clasts are rounded + mod obscured						
124.5	126.5	Volcano glom: dk gn/bl. matrix large angular - sub angular clasts few qtz stringers, 5% diss Sx, bleaching to lt gn at 132 - 134 w/ mod prop alt, few Sx.						
137.5	165.5	Core box dumped and pieced together Volcano glom - m dk gy gn clasts up to 4", sub angular to rounded, minor diss Sx, minor chl alt, mild mod prop alt.						
165.5	177	Volcano glom: m gn gy, few clasts, sub angular - rounded mod prop alt, mod chl. alt, 5% bl. chl blebs, 1-2% diss sulphides throughout, few qtz stringers						
177	179.5	Volcano glom: m dk gn gy, 5% dissem Sx, 1 qtz feld vein 11 CA mod chl. alt bl. Chl. blebs 15% clasts are small < ½"						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 686

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
179.5	191.5'	Vein - strongly siliceous matrix						
179.5	182	Po/Py 30-40% of core. Strong			34157	2.5'	.067	.02
182	184	chl. alt. w/ bl. & gn chl. 20-30%			34158	2'	.005	.02
184	186	massive Po at 182.25-182.5,			34159	2'	.008	.07
186	188	broken qtz/bl. gn. chl core at			34160	2'	.006	.02
188	191	181-181.75 sulphides diminishing			34161	3'	.004	<.01
		to 10%. 189-191.5 strong chl						
		alt. throughout, banding 90°CA						
191.5	196'	volcano clom: lt gn gy - dk gn						
		as distance from vein increases						
		erratic qtz stringers, minor diss						
		Sx, clasts are small mildly						
		obsixed, 3" of strong chl. alt.						
		at 195'						
		EOH 196'						

ROYAL SCOT

DDH NO. 687

DIAMOND DRILL RECORD

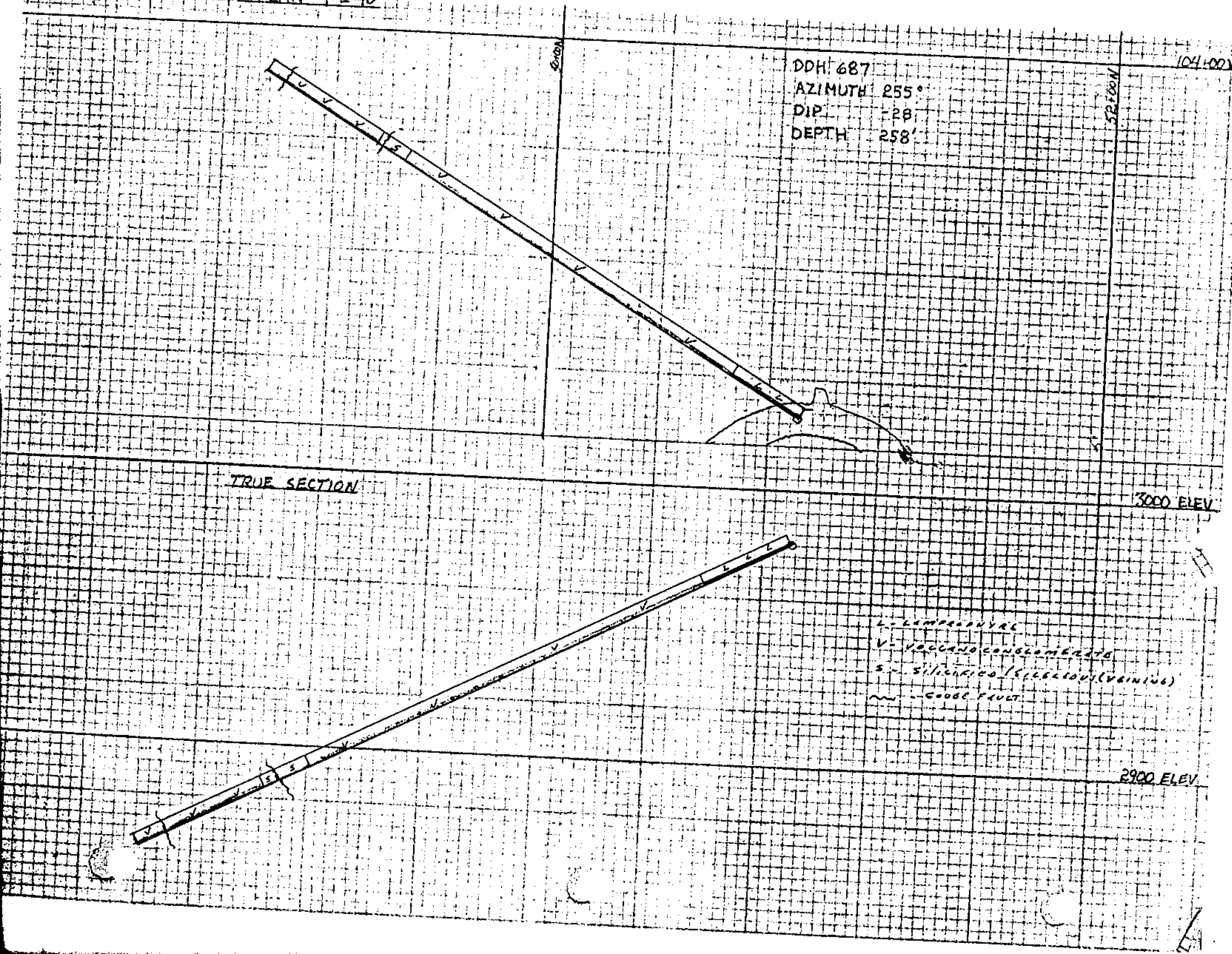
LOCATION Ramp off 3000 level to 2900 s

			REMARKS
COLLAR	Northing	5090	
	Easting	10265	
	Elevation	2981	
DRILLED	Azimuth	255	
	Dip	-28	
	Depth	258	
Da · Mo · Yr	Started	Sept 24	
	Completed	25	
	Logged	26	
EQUIPMENT	Machine	BBU 2	
	Core Size	BQ	
	Dip Tests	—	

PURPOSE To test extension to depth of 3000 level West Zone.

RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr Sept 27 87


DDH 687
AZIMUTH 255°
DIP -28°
DEPTH 258'
104+00N
52+00W
TRUE SECTION
3000 ELEV.
2900 ELEV.
L- LAMPROPHYRE
V- VOLCANO CONGLOMERATE
S- SILICIFIED/SILICEOUS (VEINING)
~ - COOGE FAULT

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 87-687

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General: lamp dyke 0-33'						
		volcan glom 33-258'						
		-vein (weak) 192-207'						
		-faults 203.5' 247'						
		This hole is dominated by volcanic m-dk gy gn matrix supported clasts size 1/8"-2" (generally they show mod-strong prop. alt. w/ strong bleaching & silicification. Vein region though wide is poorly mineralized.						
0	33	lamp dyke: dk gy-dk gy gn: H: 3.5-4.5 phenocrysts? Hbl: corroded + rounded 1/16"-1/8" 10-20% of rock locally acicular-subhedral where not alt. Plag wh.-pale gn corroded spheres 1/16-1/4" 15% of rock. Mtx dk gy to dk gn aphanitic Chl alt from 0-5' 9-15' no Sx						
33	72.5	volcanic glom: m-dk gn mod alt w/ clast bodies corroded often obscure						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 687

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		not silicified, no Sx Mod. chl. alt						
		w/ core bl. chl.						
		54-55 banded qtz vein w/ blu gn chl.						
		55.5-56 lamp dyke.						
72.5	78	volcano glom: m gn. Hi:4-7, mod to						
S 75.2	78	strg prop alt, silicified w/ qtz veins +			34172	2'	.008	L.01
		fracs, bx at 20° CA 5% Sx (po+py)						
		in blebs + stringers in fracs 78-80'						
		20% Sx (po: py)						
78	160	volcano glom: dk gy gn, Hi:5 some						
S 95	98	chl alt generally mod prop alt			34173	3'	.00X	.01
		matrix stained bl.						
		90-98: silicified, banded w/ host ox						
		smeared + highly alt. 5% Sx (py+po)						
		in blebs + stringers						
160	192	volcano glom: highly prop. alt: lt						
		gy gn silicified, bleached w/ original						
S 175	176.23	textures obscured. Faint pink			34174	1.2'	.005	.01
		cast over 2' sections 186-188						
		5x (py+po) concentrated in veins						
		approx 30° CA w/ 60% Sx + bl.						
		Chl. (sampled						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 687

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
192	208	vein bx volcano glom: lt gy strg						
193	195	pop alt banded bleached w/	2-5%		34175	2'	.006	.02
195	198	alt wall rx qtz ad Sx(py+po)	10%		34176	3'	.007	<.01
199	202	Banding 20°CA Sx 10-75%	10%		34177	4'	.005	.02
202	203	Fault - 203.5 gy gy clay/fault	7-9%		34178	1'	.013	.57
203	205	gouge	10%		34179	2'	.024	.13
205	208		10%		34180	3'	.016	.01
208	247	Volcano glom: lt gy gn, strongly alt						
		silicified some vein bx, but strgly						
		obscured by pop alt + bleaching						
247	247.2	Fault Gouge: lt gn. clays						
247.2	254	Volcano glom: lt gy gn strongly alt						
		as for 208-247						
254	258	Volcano glom: dk gn, mod alt						
		H:S						
		EOH 258'						

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

Page 1 / 5

LOCATION Ramp off 3000 level down to 2900

COLLAR	Northing	5090	REMARKS
	Easting	10265	
	Elevation	2981	
DRILLED	Azimuth	255	
	Dip	-40°	
	Depth	245	
Da · Mo · Yr	Started	Sept 23	
	Completed	Sept 25, 87	
	Logged	Sept 25, 87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests	—	

PURPOSE To test depth extension of W zone @ 3000 level

RESULTS

GEOLOGIST Rory Mackintosh Da·Mo·Yr Sept 25 87

PLAN 1"=40'

DDH	600
AZIMUTH	255°
DIP	-40°
DEPTH	245'

5200

5100

103+00W

3000 ELEV

TRUE SECTION

2981'

L - LAMPROPHYRE
V - VOLCANO CONGLOMERATE
S - SILICEOUS (VEINING)

2900 ELEV

ROYAL SCOT

DDH NO. 685

DIAMOND DRILL RECORD ____

Page 2 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx % Py	Sx % Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	2'	Casing						
2'	35'	Lamprophyre dyke dk grey-med grey-grn phenocrysts: plag in corroded spikes ¼-½", rarely showing xtal faces (10% of rock); hbl in corroded blades, but acicular euhedral from 5'-13' (5-20% of rock) matrix: dk grey-med grey-grn, aphanitic mostly chloritized. H:4-5.5 depending on chlor alt; no alt 5'-13'	-	-				
35	87	Volcanoglomerate mgy-gn. H:4.5. highly altered w qtz + QC veinlets at 45° and 70° (A) (5%). Local silicification w banded qtz + blk chlor vein 54'-55' bx for 1' on either side of vein.	1%	¾%				
		64-65' lamp. dyke w/ layer + as above	-	-				
87	90.8	Quartz vein white H:7 massive bull white qtz w blebs of py, po, + streaks of sheared altered wall rock.	10	5	S34102	3.8'	.004	.02

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx% Py	Sx% Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
90.8	124.7	Volcanoglomerate H:5 : m. gy gn mild alt, locally strong; clasts clearly visible w/ accas corroded bndies; 102-103 mild silicification + chlor alt. qtz + QC stringers (5%) at 45° CA; these occ. contain 2ndry fds.						
124.7	141.5	Volcanoglomerate H: 4-6. m-lt gy gn, mottled: silicified + chloritized, w/ strong prop. alt., clasts obscured, and sheared into bands in silicified areas. 1-2% Sx (py+po in equal amts) dissem throughout, ad in blebs.	1	1				
141.5	145	Volcanoglom H:5 m gy gn mild prop alt as for 90.8 – 124.7.						
145	146	Qtz vein H:7 wht ± py+po stringers + bl. chl.			S34163	1'	.09	.02
146	148	Volcanoglom mild alt, as for 90.8 – 124.7						

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

Page 4 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx% Py	Sx% Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
148	165	Volcanoclomerate H:5.5-7, m gy gn mod prop alt incl obscured clasts and silicification; frac bx in places qtz + qtz/fds stringers at 45° CA. 5% Sx (po+py) blebs + stringers 148-151 qtz veining + frac bx sub ll to CA: 154-155 qtz veining as 148-151									
165	229.5	Volcanoglomerate, highly altered mod gn, mottled. H:6 silicified w bleached clasts + mtx throut bl + gn chlor, w/ late qtz/fds veins. Sx (py + po) 5% in blebs & stringers. Red tint from 228.2-229.0 ; 174-176 ; 228.2-229.0			22°	1	34166	2.9	.014	.11	
							S 34164	2	.003	L.01	
							S 34165	1'	.009	L.01	
229.0	231	Qtz vein, H:7, white w/ streaks bl chlor + 15% Sx (po+py). Intersx angle: 20° CA	.5	10			34167	2'	.02	L.01	

ROYAL SCOT

DDH NO. 688

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
231	238.5	Volcanoglomerate: highly altered pyritized silicified + frac'd bx. Red tinting throughout - Pyrargyrite ?? NO Sx (5-15%) pot+py						
		231-234			34168	3'	.036	.01
		234-238.5			34169	4.5'	.071	.01
238.5	245	Volcanoglomerate, as above, red tint						
		238.5-242			34170	3.5'	.017	<.01
		242-245			34171	3'	.009	<.01
		EOH						

ROYAL SCOT

DDH NO. 689

DIAMOND DRILL RECORD

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LOCATION _____

COLLAR	Northing	50+80N	REMARKS
	Easting	102+70W	
	Elevation	2981	
DRILLED	Azimuth	238°	
	Dip	-30°	
	Depth	322'	
Da·Mo·Yr	Started		
	Completed		
	Logged	Sept 26/87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

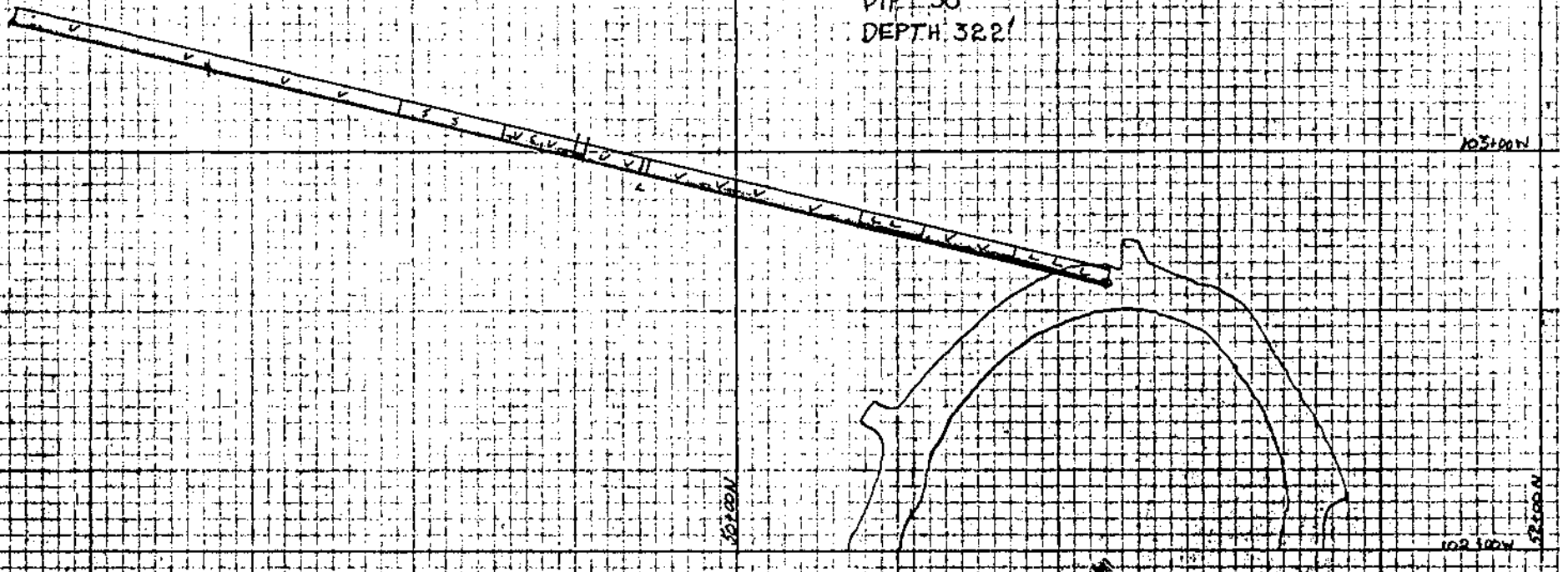
PURPOSE To extend and block out westward, the west dyke ore zone

RESULTS

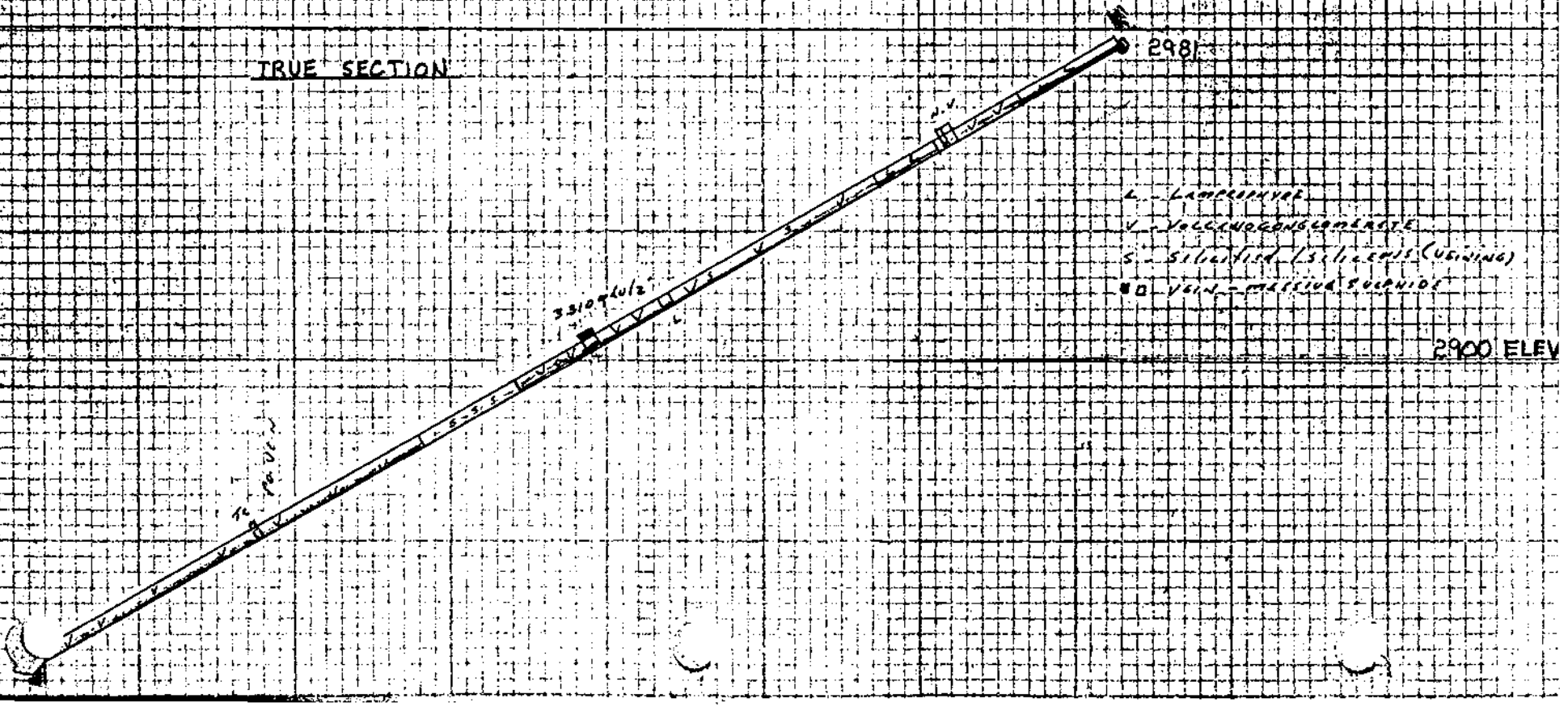
GEOLOGIST _____ Da·Mo·Yr 26/09/87

PLAN 1"=40'

AZIMUTH 238°
DIP -30°
DEPTH 322'



TRUE SECTION



L - LAMPROPHYRE
V - VOLCANIC CONGLOMERATE
S - SILICIFIED (SILICIFIS (USHING)
■ □ VEIN - MASSIVE SULPHIDE

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 87-689

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General: one massive po vein was intersected at 157.5 - 159.5'. Strong siliceous prop. chl. alt w/ 15% po blebs contin. to 162.5'. Two other weaker veins were intersected at 181 + 253'. The former extended to 207' while the latter was only 5' long. Both were stronglly alt. + siliceous w/ 15-30% Sx. Volcano glom were generally dk gn gy, mod prop alt w/ minor dissem. sulphides + mortally siliceous. Lamp dykes mainly unmineralized alternated w/ the volcano glom for the first 70'. Phenocrysts were usually corroded + rounded.						
0	30	Lamp dyke: med-dk gy, hornblend crystals bl. + rectangular, minor fds phenocrysts rounded 1/16 - 1/8" little to no Sx broken core 0-3'						
30	51	Volcano glom: gy/bl. to dk gy gn few clasts, mod prop alt, erratic QF stringers through out, very minor diss.						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 1689

Page 3 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		Sx, lt gy on matrix @ 41-42', 3"						
		banded Q/bl chlorite vein Sx 10%						
51	52	Q vein: banded Q / bl gn chl.			34204	1'	.004	<.01
		Sx 10% banding 45° CA, 1" lamp						
		dyke w/ chilled margin 45° CA						
52	53.75	Lamp dyke: dk gy, rounded bl						
		hornblend hardness <5 chilled						
		contact 15° CA, no Sx						
53.75	54	Volcano glom: dk gy bl mod prop						
		alt, large clasts (3") no Sx clasts						
		rounded - sub angular						
54	72.5	lamp dyke: dk gy, rounded						
(fault)		hornblends ± 1/8" dia Cds, hornbld						
		hard <5, gouge zone at 72'						
		chilled contact at 72.5', trace Sx						
72.5	78	volcano glom: dk gn gy, mod.-strg						
		prop alt, erratic Sx stringers +						
		scattered po blebs 10%, mildly						
		silicious, Sx Q stringers, stringers						
		bending to 11 CA, minor chl. alt						
78	82.5	volcano glom / Q vein: med gy gn, strg						
		prop alt, Sx stringers + blebs 15-20%						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 689

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		sub parallel to CA, Q vein 1½" thick						
		ll to CA, 5x 40%						
82.5	116	Volcano glom: dk gn gy · mod prop						
		alt 5x 10% dissem + stringers						
		throughout few Q stringers mainly						
		⊥ to CA, strongly alt + siliceous @						
		101-103 5x 25% lamp dyke 5"						
		wide @ 111' increasing # of clasts						
		sub rounded to sub angular 110-116'						
116	117.5	Vein: strong prop/chl. alt, strongly			34205	1.5'	.003	<.01
		siliceous minor banding, 5x 25%						
		lt gy gn color						
117.5	118	volcanoglom: med gn gy, clast sup						
		clasts appox 2-3" dia 5x 10%						
118	123.5	volcano glom: lt gn gy strong prop						
		alt., mod chl. alt, mod siliceous						
		erratic 5x stringers throughout 10%						
		bl. chl 10%						
123.5	133.5	volcano glom: dk gn, mild mod prop						
		alt. few qtz stringers, mildly siliceous						
		rounded clasts to 2" minor 5x						
133.5	135	Lamp dyke: dk gy-bl rounded hornblende						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 689

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		speckles of feldspar contact 45° CA						
		on either end						
135	157.5	Volcano glom: med-dk gn gy mod						
154	155	prop alt, large sub rounded-round			34202	1'	.033	<.01
		clasts scattered Q stringers						
		throughout 80° to CA. minor Sx						
		broken core 147-148 30% bl chl						
		5-10% Sx in blebs broken core						
		156-157.5						
157.5	159.5	vein: massive po, pods of bl. chl. 2"			34201	2'	3.31	.88
		dia, qtz 10%						
159.5	162.5	vein: strg. prop/chl. alt, md-dk gn			34203	3'	.035	<.01
		gy w/ some reddish cast in qtz. Po blebs						
		15%, gn/bl. chl. 40%, mod silicious						
162.5	171	Volcano glom: lt gy, mod prop alt,						
227	228.5	mildly silicious, few qtz stringers, minor			34211	1.5'	.004	<.01
193	194.5	Sx occuring as veins			34210	1.5'	.005	<.01
171	172	banded QF vein, reddish gy, strong			~~34208~~	~~0~~		
181	184	prop/chl alt, bl chl 20%, strongly			34206	3'	.004	<.01
184	187	silicious minor Sx			34207	3'	.005	<.01
254.5	267	Volm: md gy gn mod sil., mod prop alt.			~~34209~~	~~XXX~~	~~XXX~~	~~XXX~~
188.5	190	clasts sub roded. <1" dia, few Q			34208	1.5'	.004	<.01

ROYAL SCOT

DDH NO. 690

DIAMOND DRILL RECORD

Page 1/

LOCATION In ramp to 2900 off 3000 level

COLLAR
- Northing 50+80N
- Easting 10270W
- Elevation 2921

DRILLED
- Azimuth 238°(232°Grid)
- Dip -45°
- Depth 158

Da·Mo·Yr
- Started
- Completed Sept 28
- Logged Sept 29

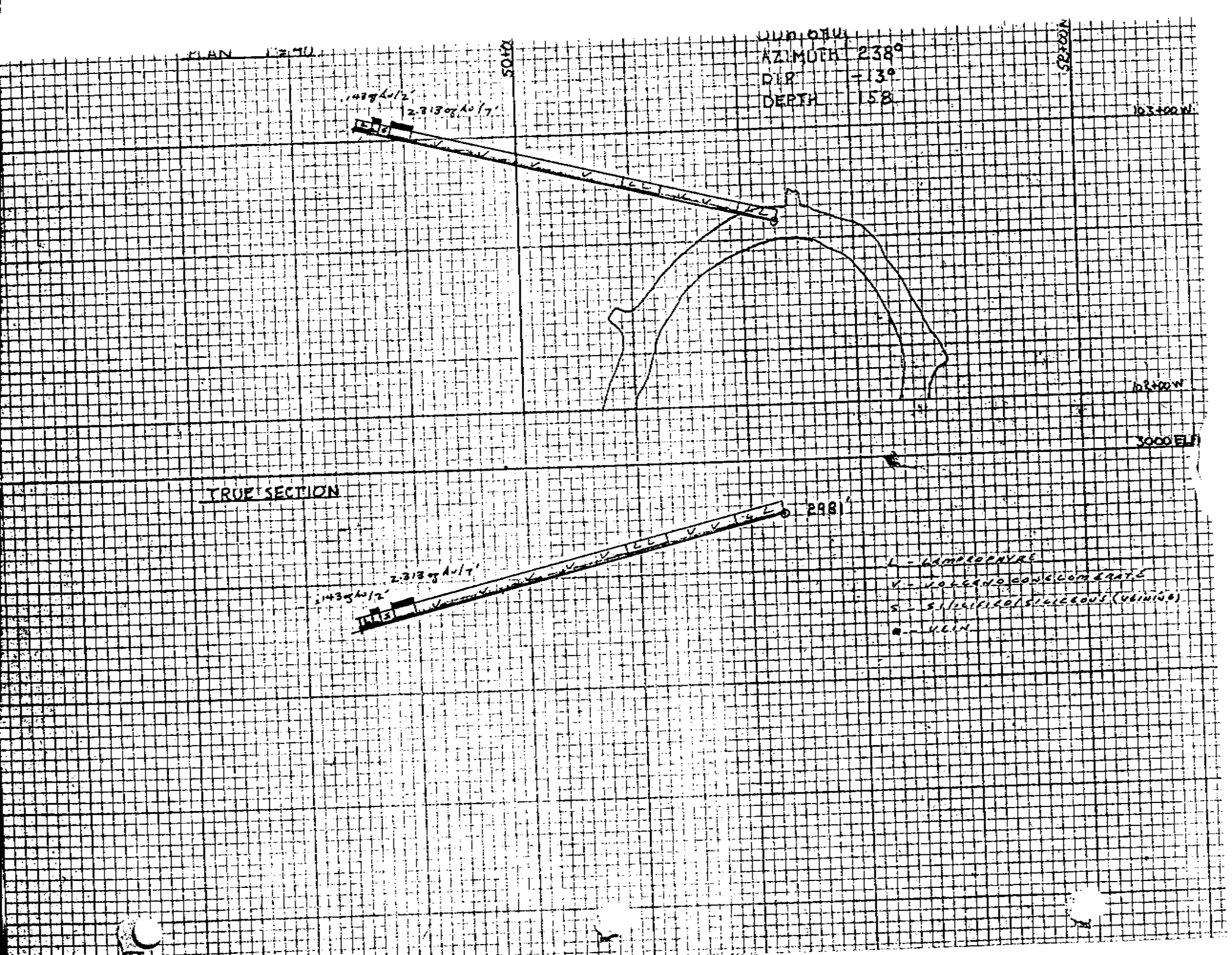
EQUIPMENT
- Machine BBU2
- Core Size BQ
- Dip Tests —

REMARKS Vein 139'-146' no massive sulphides, but po+py 15-50% with abundant black chlorite; siliceous in places.

PURPOSE To test extension of West vein

RESULTS Best assay: 4.45 oz/Av / 3.0 feet, with others, gives 2.3 oz / 7.0 feet.

GEOLOGIST Rory MacIntosh Da·Mo·Yr Sept 29.87


PLAN 1"=70'
AZIMUTH 238°
DIP -13°
DEPTH 158'
.143 gAu/T'
2.313 gAu/T'
103+00 W
102+00 W
3000 ELEV
TRUE SECTION
298'
.143 gAu/T'
2.313 gAu/T'
L - LAMPROPHYRE
V - VOLCANIC CONGLOMERATE
S - SILICIFIED SILICEOUS (VEINING)
● - VEIN

ROYAL SCOT

Royal Scot Resources Ltd.
Summit Lake Mine

DDH NO. 696

DIAMOND DRILL RECORD

Page 2 / ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	19	Lamprophyre dyke m-dk gy H: 4-5	-	-				
		Phenocrysts: hbl, 10-15% aligned 15-19° to c.a. 1/16-1/4", 15% of rock, calcite-(decayed Ca plag?) in spheres 1/4" (5%) from 0-16'						
		Groundmass: aphanitic m-dk gy no Sx						
19	45.1	Volcanic conglomerate m-dk gy to gy H: 5-6. Matrix supported. Clasts: 1/4"-2" 20% of rock, locally corroded & oblate // showing foliation: fn grd. volcanics / Numerous stringers at 35° CA.						
		39-42: QC vein, 5% bl chl, some gn chlor.	5	5	S 3424	3'	.004	.01
		41.1-45.1 silicified wall rock = the hydrothermal alt of dike/flows						
45.1	59.3	Lamprophyre dyke m-dk gy H: 0-45	-	-				
		Phenocrysts: Hbl corroded blebs 1/4" 20% of rock, giving very spotted appearance						
		groundmass: aphanitic, chlor m gy gn.						

ROYAL SCOT

DDH NO. 690

DIAMOND DRILL RECORD

Page 3 /

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
59.3	60.4	1) Lamprophyre dyke, as above 1/2 core | CA							
		2) Volcanoglom, as below 1/2 core | CA							
60.4	121.5	Volcanoglomerate m-dk gy gn lt: 5-6 intr supported, clasts up to 2" l+d alt to unalt. Up to 10% Sx (py+po) locally, near qtz stringers.							
		83.4 - 85: 10% Sx in blebs.	3	7		341216	1.6'	.003	.01
		110.4 - 111.8 QC vein. Sx up to 10% in adjacent wall rx	3	3		341217	1.4'	.004	<.01
121.5	139	Volcanoglom mottled dk gy-gn, lt gy-gn, mod - strng prop alt. 5% Sx blebs throughout.	7	3					
		125.5 - 126.8 - QC vein, 1" clot min Sx				341218	1.1'	.003	<.01
		134 - 136.5 Volcanoglom				19	2.5	.003	<.01
		136.5 - 139 "				20	2.5	.005	<.01
139	146	Sx Vein = bl. clots, silicified, clasts							
		15-50% Sx | 139 - 142	15	15		341221	3'	4.453	0.424
		| 142 - 144	5	15		213	2'	0.654	0.140
		| 144 - 146	7	8		214	2'	0.762	0.042

ROYAL SCOT

DDH NO. 640

DIAMOND DRILL RECORD

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
146	154	Vein: silicified volcaniclastic, strong prop + sil alt.						
		146-148			70221	2'	.004	L.01
		148-150			222	2'	.006	L.01
		150-152			223	2'	0.143	0.02
		152-154			224	2'	.041	.23
154	158	Volcaniclastic, silicified, no Sx. lt gy						
		Lamp dyke in most of core 154 - 155.5						
		15-8' EOH						

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD

Page 1 / 6

LOCATION 1187 - 691

COLLAR
- Northing 50 + 80N
- Easting 102 + 70W
- Elevation 2981'

DRILLED
- Azimuth 238
- Dip -43°
- Depth 211'

Da·Mo·Yr
- Started
- Completed
- Logged Oct 2/87

EQUIPMENT
- Machine BBU2
- Core Size BQ
- Dip Tests

REMARKS General description: Volcanoglomerate with feldspar porphyry dike intrusions for 0 - 122'. The volcanoglomerate is generally medium to dark green grey, with subangular to rounded clasts < 3" diameter. Disseminated sulphides were found throughout and the matrix was mildly to moderately propylitized. From 125 - 211' the sulphide content generally increased, and the matrix was moderately to strongly propylitized. The significant vein intersections are listed below under Results

PURPOSE To delineate the depth and westward extent of the west zone ore block

RESULTS best assays - 0.831, 191 - 193.5
0.635, 195 - 196.0
0.458, 180 - 182
0.036, 186.5 - 189

GEOLOGIST [signature] Da·Mo·Yr 6/10/87

PLAN 1"=40'

DDH 6411
AZIMUTH 283°
DIP -43°
DEPTH 211'

.43oz Au/T

.458oz Au/T

.423oz Au/T
7.01oz Ag/T

103+00W

102+00W

3000 ELEV

TRUE SECTION

2981

L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICEOUS (VEINING)
■ - VEIN - MASSIVE SULPHIDE

.423oz Au/T
47.05oz Ag/T

.458oz Au/T

.43oz Au/T

2900 ELEV

ROYAL SCOT

DDH NO. 69

DIAMOND DRILL RECORD

Page 2 16

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	45	lamp dike med-dark grey, hornblend rectangular to sub rounded, gravity chlorite filled 3" veg at 18.5'. Few round feld. phenos. Contact at 45' 45° CA								
45	L	no Sx								
45	48'	Volcanoclastic - med-dark grey grn, mod-strong prop alt, mod siliceous, Sx stringers <5%. Vuggy Q #" at 48' minor Sx, chlorite								
48	60	Volcanolyn - med grey grn, mod prop alt, mildly siliceous, few erratic Q stringers, minor Sx								
60	62	Lamp - dark grey, rounded hornblends, no Sx, 0° sub parallel contact								
62	79	Vglm light-med grey grn, mild-mod prop alt, erratic Q stringers minor Sx, 5" Q vein at 62' 20% grn chlorite, minor Sx, 3" lamp at 65'								
79	92	Vglm Qvein lamp contact				34225	3'	.010	.16	
		Vglm - light grn grey, mild prop alt		10%						

ROYAL SCOT

DDH NO. 191

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
79	82	(cont') 10% Po mainly in blebs, Q vein – 10% Po, 5-10% green chl. Lamp dike contact 20° CA, sub rounded phenocrysts						
82	88.5	Lamp dike ~~dark~~ dk grey, sub rounded hornblends, few feldsp, 5-10% Sx from 87.5-88.5						
88.5	97.5	Vglm med grn grey, mod-sto prop alt, Sx 10-15% diss, Lamp intrusions at 89.5 (½") and 93.5 (8") no Sx rounded plums, minor chl in Vglm		10-15%				
98	103	Lamp dike as before, Vglm intersection sub parallel CA, at 100 10% diss Po						
103	115	Vglm med grn grey, mod prop alt, large subangular – rounded clasts, alternating clast / matrix sup. good Sx min up to 20% in blebs generally 10-15% throughout mod chl alt. Q-feld 1" bands at 112-112.5 Sx min 20%		15%				

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD

Page 4 / 6

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
115	118.5	Vlglm light grn grey, mod prop alt, rounded clasts, Sx 15%		15	34227	3.5'	0.024	.24
		1" strick Q vein with 15% Sx blebs & stringers, discont for 3.5' 76 ~~60~~ 10° - parallel CA						
118.5	122	lamp dike as before, minor Sx						
122	128	Vlglm light grn grey, mod-strong prop alt, mod silicific with Stringers tending to parallel CA, mild chl alt, Sx 10%-15% in blebs & stringers		10-13%	34229	124-126	.003	<.01
128	154	Vlglm, dark grn grey, mod prop alt, sub-angular-rounded clasts, 5% diss Sx throughout		5%				
154	157	Vlglm. dark black grn, strong - mod prop alt, mod chl alt, 20%, Sx, mildly siliceous increasing to strongly sil c/ Sx increasing to 25-30% toward 157		20%	34229	3'	.004	.06
157	158	Q vein mod chloritic alt grn & black chlorite present, 20-25% Sx, banding 15° CA.		25%	34230	1'	.004	.06

ROYAL SCOT

DDH NO. 691

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
192	186.5	Vglm strongly mineralized as before 15% Sx, strong prop alt, mod-strong chl alt, rounded clasts when not obscured, mod siliceous.		15%				
186.5	189	Vein str prop/chl alt, bl chlorite up to 40%, Sx 20-30%,		20-30%	34236	2.5	0.036	0.01
189	191	Vglm as 192-186.5		15%				
191	193.5	Vein grn black color, strong prop/chl alt, black chlorite 10-20%, coarse grained Po blebs up to 80% of core		40-80%	34237	2.5	0.831	0.02
193.5	195	Vglm - med grn grey, mod prop alt mod chl alt 5-10% Sx		5%				
195	195.5	massive Po bl chlorite vein		50%	34238	195-196	0.635	.03
195.5	198	Vglm - med grn grey, mod prop alt/chl alt, mildly sil, 10% disem Sx		10%				
198	200	Vglm broken core, Vglm as above						
200	211	Vglm med grn grey, mod prop alt mod chl alt, mild sil, 5% Sx.		5%	34239	1'	.006	<.01

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD

Page 1 / 4

LOCATION 3000 LEVEL - RAMP

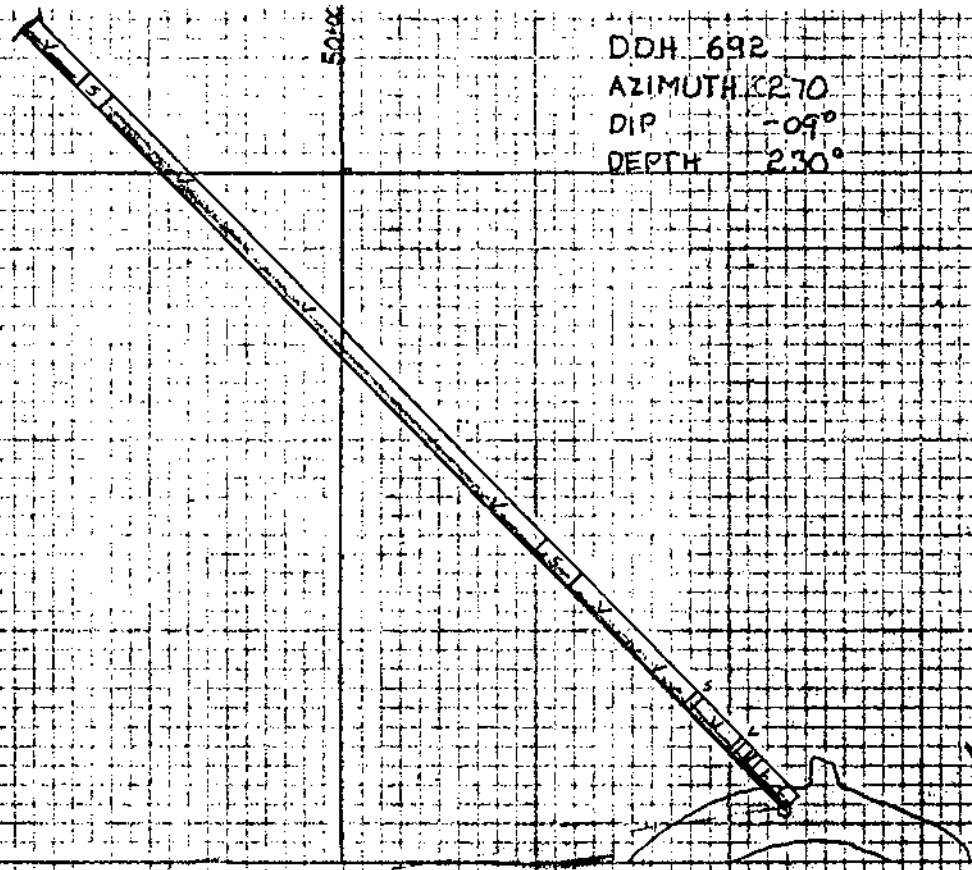
			REMARKS
COLLAR	Northing	50+80 N	
	Easting	102+70 W	
	Elevation	2981	
DRILLED	Azimuth	270	
	Dip	-09°	
	Depth	230'	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To delineate depth & western extent of west zone ore

RESULTS

GEOLOGIST [signature] Da·Mo·Yr 6/10/87

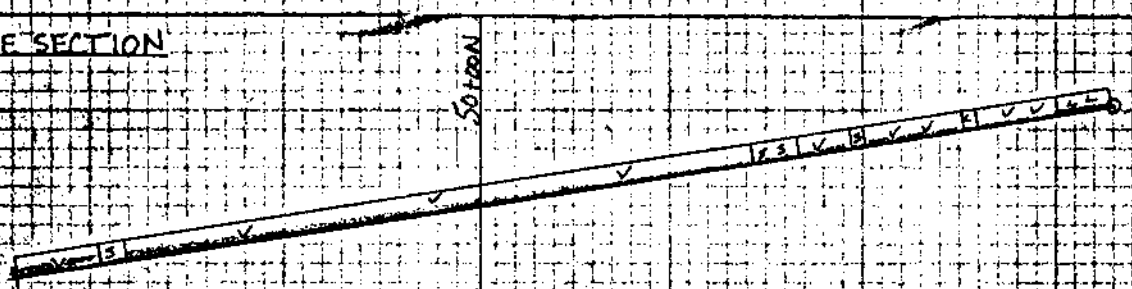
PLAN 1"=40'



DDH 692
AZIMUTH 270
DIP -09°
DEPTH 230'

3000 ELEV

TRUE SECTION



L - LAMPROPHYRE
V - VOLCANO CONGLOMERATE
S - SILICIFIED / SILICEOUS (VEINING)

2900' ELEV

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	11	lamp dike, med grey, rectangular to sub-rounded hornblends, few rounded feldspars, blebs of green hardness > 5, trace Sx								
11	15.5	Vglm, dark green, mod strong prop alt, mod chl alt, minor Sx Pbl chl blebs, ½" thick bands of QF 45° CA,								
15.5	16	Q vein banded with grn chlorite & wall rock, 20% Po		20%		S 34243	1.25	.003	<.01	
16	23	Vglm as above, scattered Q & QF stringers throughout								
23	25.5	lamp dike - black, rounded hornblends, no other phens, no Sx								
25.5	54	Vglm med-dark green grey								
53.5	55.5	mod prop alt, weak chl alt, mildly sil with scattered QF bands 45° CA, minor Sx 3" of 10-15% Po @ 45°				S 34244	2'	.005	.02	
54	55.5	Vein - strongly prop/chl altered wall rock, pods of mass. Sx, large veins of lt chl.	massive							

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
55.5	65	Valm Q vein - light - med grn grey strong prop alt, v strongly siliceous, 50% Quartz feldspar matrix erratic stringers & thick QF bands minor ch, minor Po blebs						
65	68	Q vein 90% Quartz feld matrix no Sx, minor grn ch. & wall rock			S 34252	1'	.004	<.01
67	68							
68	74.5	Valm Q vein - med grn, v strongly		3%				
70	74	Siliceous 40-50% QF matrix, heavily banded & twisted matrix, very strong prop alt / ch alt, 5% blebs and bands up to 30%,			S 34245	4'	.004	<.01
74.5	90	Valm, med-dark grn grey, mod-strong prop alt, mildly sil, rounded partially obscured clasts, 5% diss & blebs 5%		5%				
90	145	Valm, med-dark grn grey (dk ch), mod prop alt, large 3" rounded clasts scattered throughout, mildly sil w QF bands occasionally, few stringers, 5% <5% generally in blebs						

ROYAL SCOT

DDH NO. 692

DIAMOND DRILL RECORD

Page 4 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
145	170	~~Vglm~~ med grey grn, mod – strong prop alt, mdstly – mod siliceous, 5" thick Q Feld band @ 147 · 30° CA Q stringers scattered throughout >60° CA 5% diss Sx in stringers, few large rounded clasts		5%						
170	190	~~Vglm~~ light grn, mod – strong alt, strong sil, 5–10% diss Sx stringers	5–10%		S	34246	2'	.004	<.01	
190	192	mod – mod chl alt			S	34247	3'	.011	.01	
190	~~196~~	~~Vglm~~ Vein – light grn, strong prop/chl alt, strongly siliceous,		30–40						
	206	30–40% diss Sx, coarse grained			S	34248	3'	.003	.01	
206	211	Vein massive lt chlorite and		>50%						
195	198	massive to semimassive Sx			S	34249	3'	.004	.01	
211	230	~~Vglm~~ med–dark grn, mod–strong								
198	201	prop alt, mod–strongly siliceous,			S	34250	3'	.005	.10	
201	204	erratic Q + QF stringers, minor Sx			S	34251	2'	.004	<.01	
~~204~~	~~206~~				S	~~34252~~				
206	208.5	~~EOH 230~~			S	34240	2.5'	.018	.01	
208.5	210				S	34241	1.5'	.04	.82	
210	213	EOH 230			S	34242	3'	.009	.06	

ROYAL SCOT

DDH NO. 693

DIAMOND DRILL RECORD

Page 1 / 4

LOCATION Ramp Below 3000' Level

COLLAR	Northing	50+80 N	REMARKS
	Easting	102+70 W	
	Elevation	2981	
DRILLED	Azimuth	270	
	Dip	-24	
	Depth	265	
Da · Mo · Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To delineate depth & western extent of west draft zone.

RESULTS

GEOLOGIST [signature] Da·Mo·Yr 06/10/87

DDH-1693
AZIMUTH 270°
DEPTH 265'
DIP -24°

104+00 N

104+00 W

PLAN 1"=40'

TRUE SECTION

2981

2900 L

L – LAMPROPHYRE
V – VOLCANO-CONGLOMERATE
S – SILICIFIED / SILICEOUS (VEINING)

ROYAL SCOT

DDH NO. 693

DIAMOND DRILL RECORD ____

Page 2 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	11	Lamp dike med grey to grey grn rounded hornblends, green feldspar phenocrysts						
11	26	Vglm med grn, mod prop alt, scattered QF stringers 30-45° CA, sub rounded clasts minor Sx, banded Q at 12'-13' Sx 20-30%						
26	28	lamp dyke - black, rounded hornblends, no Sx						
28	44	Vglm as 11-26, ¼" Q vein 20% Sx parallel to CA 39-44'						
44	47	Vglm, light grn, 1' broken core 44-45, mod - ~~strong~~ alt, mod Sil, scattered QF stringers minor Sx blebs, minor bl chl						
47	87.5	Vglm, med - dark grn grey mild - mod alt, large 1" & 3" sub rounded clasts, few QF stringers, minor diss Sx						
87.5	88	Vglm strong alt, 30% Sx bands 80° CA		30%				

ROYAL SCOT

DDH NO. 693

DIAMOND DRILL RECORD

Page 3 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
88	115	Vglm - med dark grn grey							
		mod prop alt, .5% diss Sx		5%					
1		sub rounded clasts, mildly sil							
		few Q stringers							
115	118	Vglm - strong alt, mod sil,							
		minor clay, 10% Sx		10%					
118	128	Vglm, mod grey grn, mod							
128	130	strong prop alt, mildly sil			S	34253	2'	.006	.01
		minor diss Sx							
128	131	Vein, strong prop alt very sil							
		mod clay alt, Sx 20%		20%					
131	161	Vglm - med dark grn, mild							
		- mod prop alt, mildly siliceous							
		few Q stringers, large 1-3"							
		rounded clasts, matrix partially							
		clast sup, 10% diss Sx		10%					
		broken core 149.5-150.5							
161	198	Vglm, med-dark grn grey							
174	175	mild - mod prop alt,			S	34254	1'	.007	.07
		scattered blebs of Sx, diss Sx <5%							
		large 1-2" sub angular - rounded							
		clasts, 1" Q banded vein at							
		174.6 - 174.1							

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD

Page 1 / 3

LOCATION 3000 LEVEL – RAMP

COLLAR	Northing	60+80N	REMARKS
	Easting	102+70W	
	Elevation	2981	
DRILLED	Azimuth	270	
	Dip	-35	
	Depth	290	
Da·Mo·Yr	Started		
	Completed		
	Logged		
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

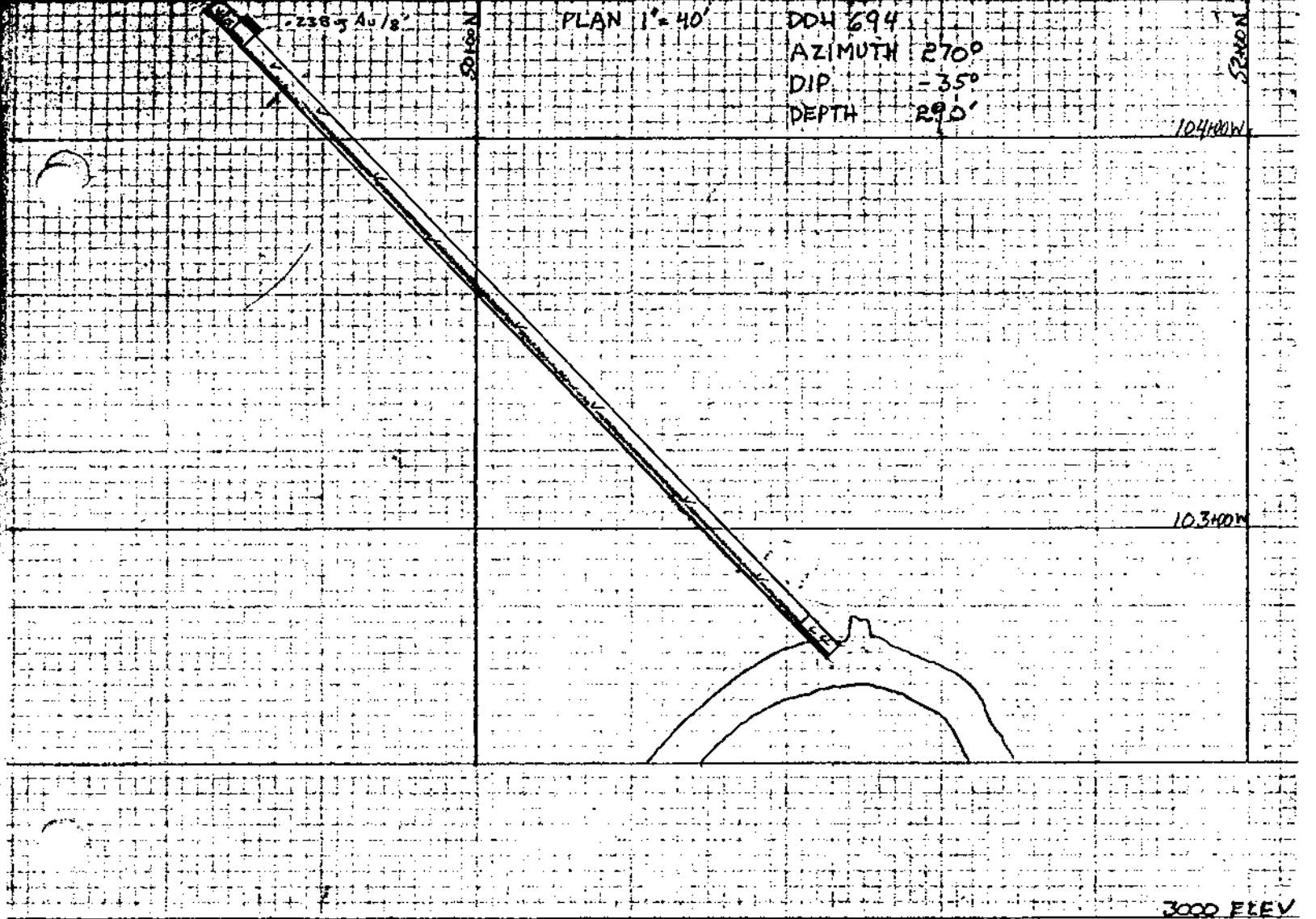
PURPOSE To delineate western extent and depth of west drift zone vein

RESULTS

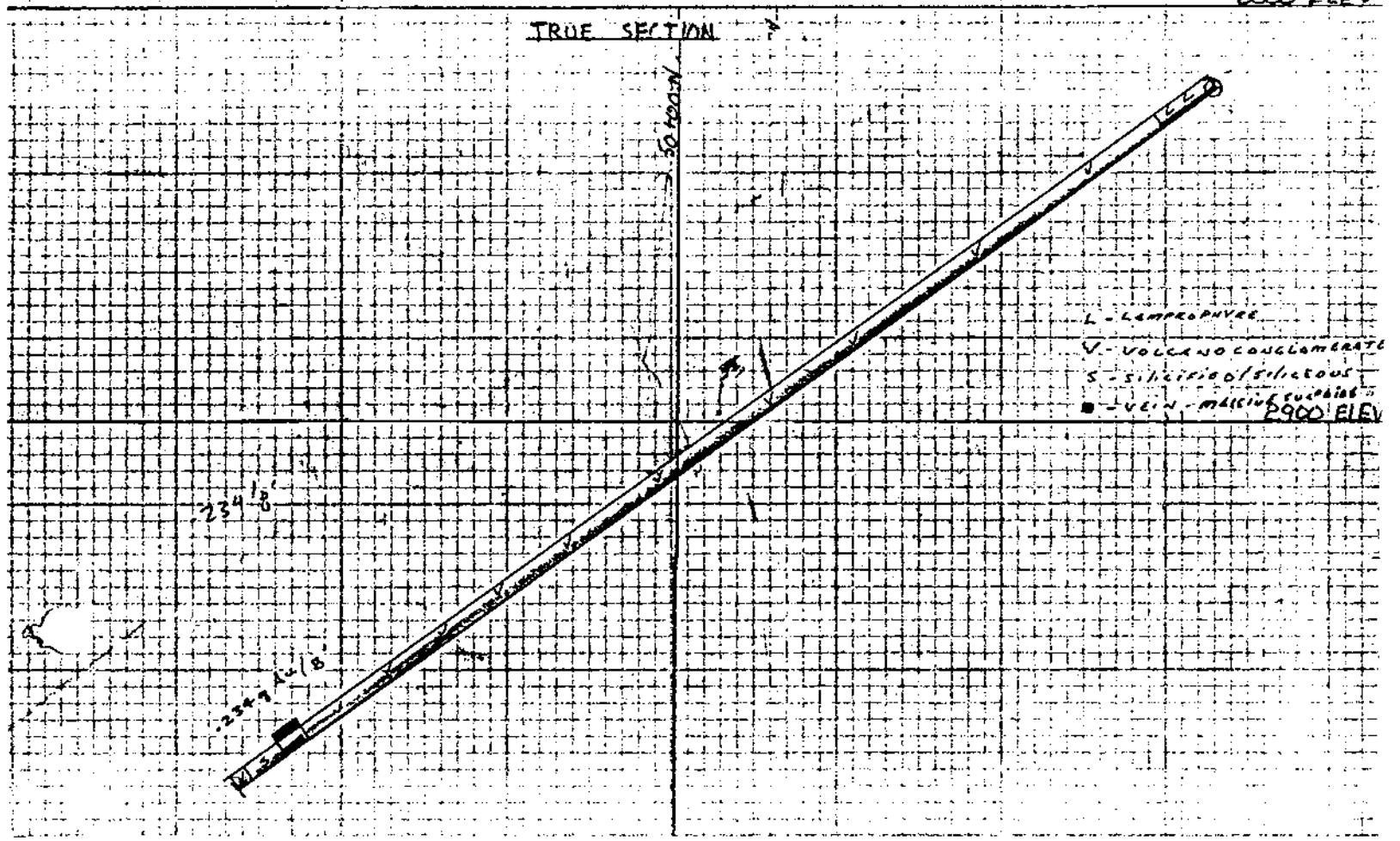
GEOLOGIST Bob Peck Da·Mo·Yr 06/10/87

PLAN 1" = 40'

DDH 694
AZIMUTH 270°
DIP -35°
DEPTH 290'



TRUE SECTION



ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD ___

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	15	lamprophyre dike med-dark grey rounded phens, green alt of feld phens									
15	85	Vglm - med dark grn, mild mod prop alt, clasts up to 3", sub rounded, scattered QF stringers, 10-30° CA, scattered Po blebs and minor diss Sx 3" lump intrusion at 33.5', scattered blebs of bl chl.									
85	103	Vglm med grn grey, strong prop alt, Quartz vein at 80-90°, Vglm - mildly sericitic siliceous, Sx blebs, stringers + diss up to 10-15% locally	10	1%							
103	145	Vglm as per 15-85									
145	165	Vglm as per 85-103, Sx diss <10%, erratic stringers of Q;									
165	175	Vglm, med dark grey, clasts sub rounded up to 3", mild prop alt, mildly siliceous;									

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD

Page 3 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po		SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
165	175 cont	mild chl alt, minor diss Sx + blebs							
175	180	Vglm. med grn grey, mod prop alt, mod chl alt, locally 30% grn chlorite, minor diss Sx			S	34259	3'	.031	.04
179	182				S	34260	1.5'	.009	.02
182	185.5								
180	184	Vglm strong prop alt, mod grn to dark grn, mild-mod sil, minor diss Sx			S	34261	1.5'	.003	L.01
208.5	210				S	34262	1.5'	.011	.08
213.5	215								
184	185.5	Q vein, v strong alt, very sil, med grn, banding tending to parallel CA, <10% diss Sx			S	34263	1.5'	.008	.03
227.5	229				S	34277	2'	.165	.03
270	272								
185.5	207	Vglm mod-strong prop alt, med grn grey, mod chl alt			S	34278	3'	.35	.05
272	275				S	34279	3'	.200	.04
275	278	mild-mod sil, subrounded clasts, minor diss Sx			S	34280	3'	.006	L.01
278	281								
207	250	Vglm strong prop alt mod sil, mod chl alt, scattered blebs			S	34281	3'	.005	L.01
281	284				S	34282	3'	.014	.09
284	287	bl chl 8" banded Q vein @ 22°			S	34283	2'	.008	.01
287	289	scattered 1-2" QF bands, 2' broken core at 235', erratic Q stringers 240' - 250'							
		~~EOH 250~~							

ROYAL SCOT

DDH NO. 694

DIAMOND DRILL RECORD ___

Page 4 / 4

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
250	272	Vglm: brecciated matrix, mod prop alt, mod-stg siliceous, med gy, minor 5x blebs.						
272	287	Vein:						
272	275	siliceous bl. chl. matrix, Po 15-20% dk gy bl. color						
275	282	massive bl. chl + Po mildly siliceous						
282	287	brecciated siliceous matrix Po blebs 30%, bl. chl 10-20%						
287	290	brecciated vglm - strongly siliceous <10% Po blebs, med gy color minor chl. alt						
		EOH 290'						

ROYAL SCOT

DDH NO. 695

DIAMOND DRILL RECORD

Page 1 / 5

LOCATION 3000 LEVEL RAMP

COLLAR	Northing	50+80N
	Easting	102+70W
	Elevation	2981
DRILLED	Azimuth	237
	Dip	367'-50
	Depth	367'
Da·Mo·Yr	Started	
	Completed	
	Logged	
EQUIPMENT	Machine	BBU2
	Core Size	BQ
	Dip Tests	—

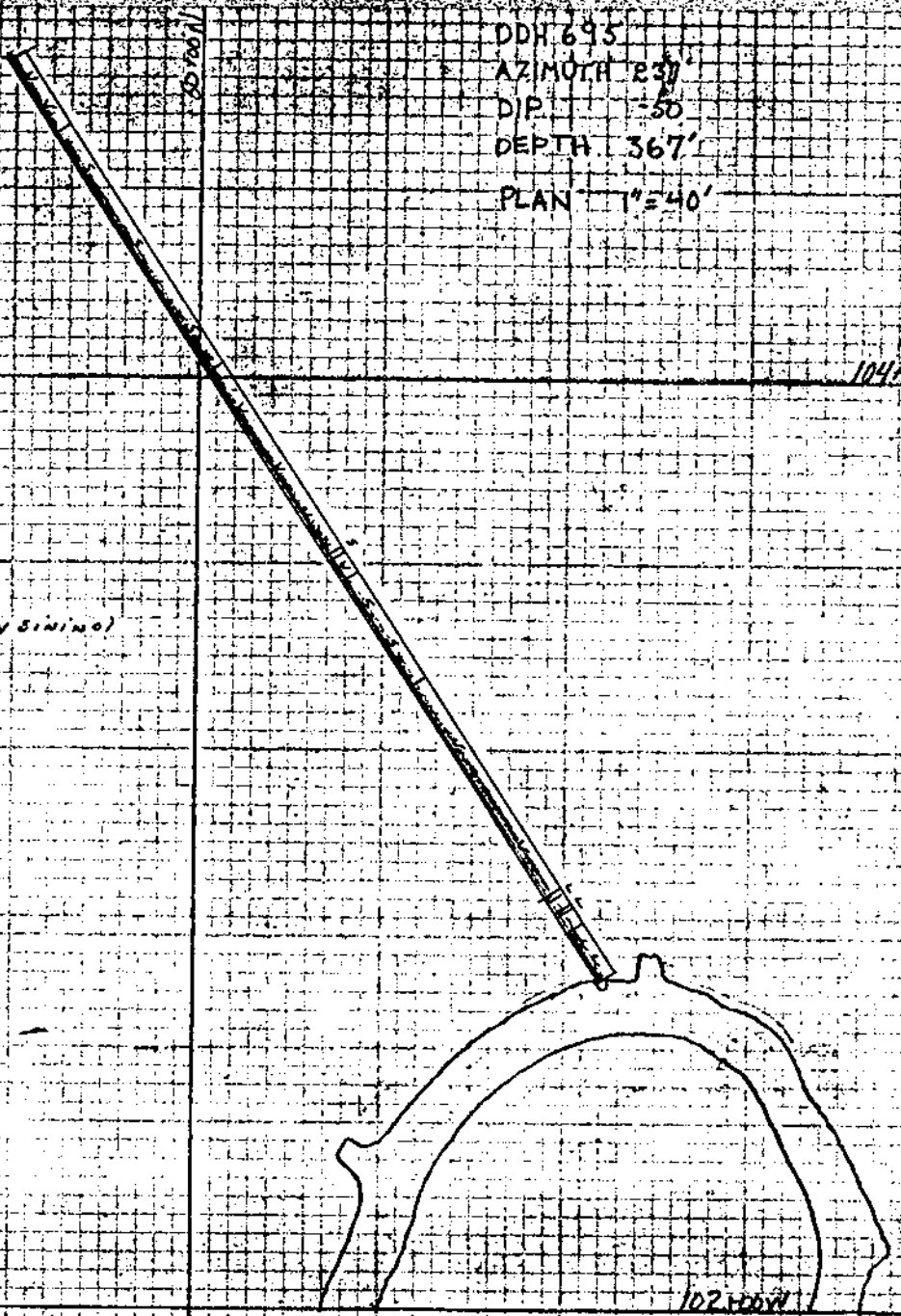
REMARKS alternating lamprophyre and volcanoglomerate for the first 32'. Volcanoglomerate generally medium grey-green with moderate to strongly siliceous matrix. Core matrix 236-367 is very siliceous, and brecciated, with erratic quartz stringers and minor sulphides. Original depth was projected to 385' but drilling was shut down due to a fault at 365.

PURPOSE To delineate depth & western extent of west drift zone

RESULTS Hole shut down before vein intersection reached because of drilling difficulties in faults.

GEOLOGIST [signature] Da·Mo·Yr 06/10/87

DDH 695
AZIMUTH 230°
DIP -50
DEPTH 367'
PLAN 1"=40'

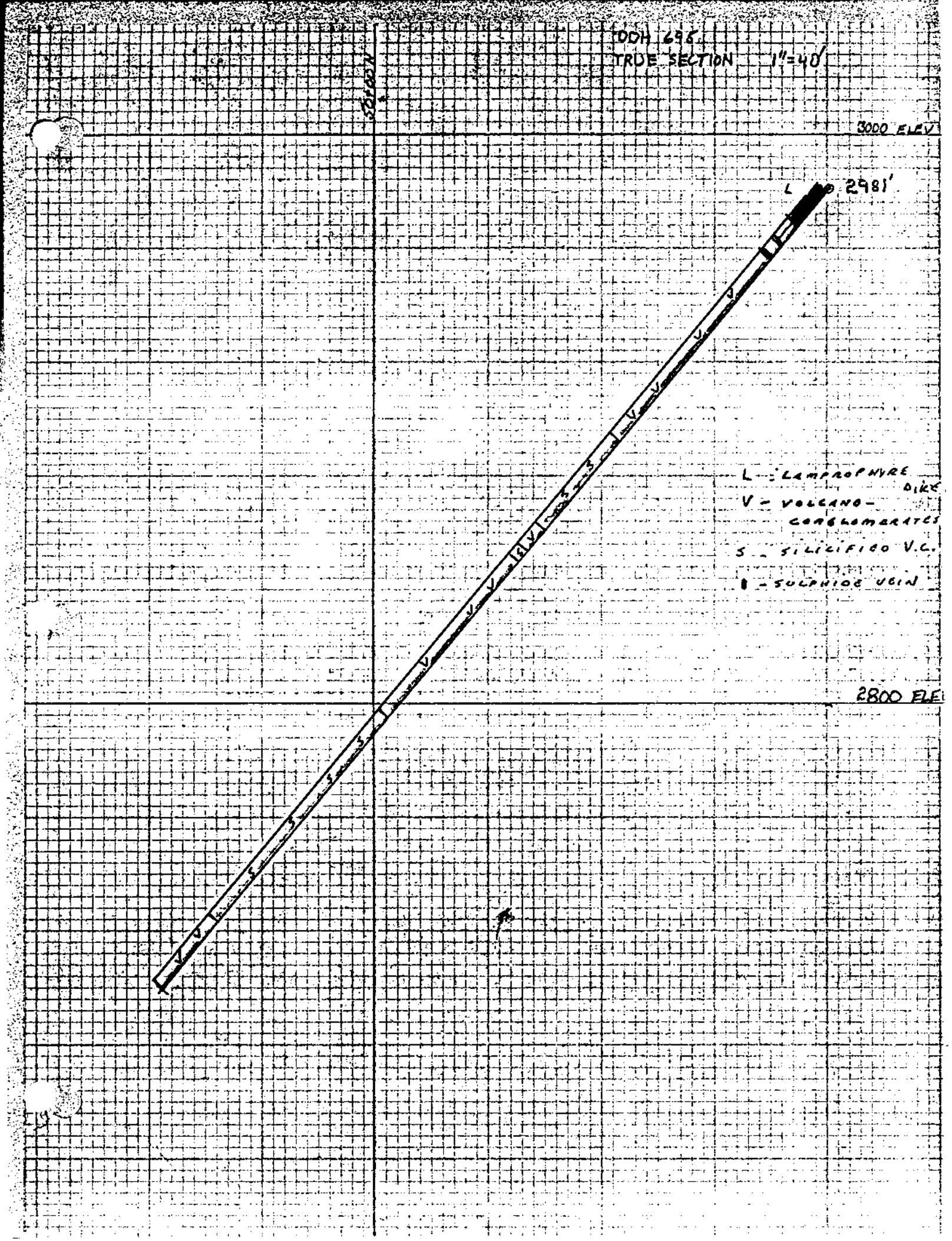


L - LAMPROPHYRE

V - VOLCANOCONGLOMERATE

S - SILICIFIED (SILICEOUS (VOLCANIC)

DDH 696
TRUE SECTION 1"=40'



ROYAL SCOT

DDH NO. 695

DIAMOND DRILL RECORD

Page 2 of 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
0	17.5	lamprophyre dyke - med - dark grey, minor alt of hornblend phen. 0-11 sew feld; 11-17.5 → 20% felsp pheno chloritically alt, grn color, rounded boulds.									
17.5	25.5	Vglm mod - strongly prop alt, clast <1" subangular, dark grey grn, erratic Q stringers, minor diss Sx, 4" lamp intrusion at 21' grey grn chloritic alt;									
25.5	26	Lamp dike black, silicified contact w/ ~~contact~~ Sx blebs									
26	31	Vglm mod - strong prop alt, dark grn grey, clasts <1" dia, subangular - rounded, erratic Q stringers, ¼" thick shear Q vein 28-29', blebs of Sx; minor diss Sx throughout									
31	32	Lamp Vglm contact - black lamp rounded blebs, minor silicification @ contact, Vglm as before, contact parallels CA curving to perpendicular									

ROYAL SCOT

DDH NO. 65

DIAMOND DRILL RECORD

Page 3 / 5

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
32	91	Vglm med grn grey, mod prop alt, clasts < 1" dia, subangular-rounded, minor diss Sx & occasional Sx blebs erratic Q stringers						
91	110	Vglm med grey grn, strong - mod prop alt, mod siliceous, 96-97.5 Sx stringers 5-10% minor bl chl, QF band 3" thick at 95', minor diss Sx throughout <5%,						
110	110.5	Vglm & vein Vglm as above & vein 1½" wide ¼" thick, stockwk with wall rock						
110.5	116	Vglm as above						
116	127	Vein med grey grn / white strong prop, mod chl alt, siliceous matrix 30-70% Q, diss Sx throughout, locally up to 30-40%		20-40%	34264	120-123	.008	.03
127	137	Vein med grey grn, strong prop alt, mod chl alt, less siliceous matrix than above approx 2% throughout, diss Sx 10-20%		10-20				

ROYAL SCOT

DDH NO 695

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
137	144	Vein as per 116-127						
144	151	Q vein white - grn grey, primarily Q (90%) with strongly altered Vglm, diss Sx in Vglm 10%		10%				
151	157	Vglm mod grey grn, strong prop alt, mod siliceous, mild-mod chl alt, diss Sx and stringers 5%						
157	167	Vglm mild-mod alt, med-dk grn grey, clasts up to 3" dia rounded-sub rounded, few Q stringers minor diss Sx, broken core 161-163						
167	169	Siliceous Vglm vein? similar to 137-144 but not as strongly prop alt, minor diss Sx						
169	187	Vglm mod-dk grn, mod-strong prop alt, mod siliceous, mod chl alt, diss Sx throughout, frequent blebs & stringers, locally up to 20% broken core 184-196						
187	236	Vglm med grn grey, mod prop alt, mild-mod sil, erratic Q stringers clasts <3" sub rounded, diss Sx 2-5% broken core at 201 to 5"			34265	223-TR	0.006	.02

ROYAL SCOT

DDH NO. 695

DIAMOND DRILL RECORD ___

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
236	243.5	Vglm mod grey, ~~strong~~ prop alt, mod chl alt, ~~mod~~ mod – strong Sf, minor diss Sx <5%, ~~mod~~						
243.5	273	Vglm Vein med grey, v strong siliceous matrix, broken fractured core throughout, mod – strong chloritic alt, diss Sx / blebs locally 10–15% erratic Q stringers, brecciation ~~& fracture~~ 255–267, gouge 256–258,			34266	251.5–253.5	.006	.02
					34267	264 26	.003	<.01
273	336	Vglm Qvein, ~~strong~~ prop alt, mod ~~strong chl alt~~, very str siliceous, erratic stockwork Q stringers, light med grey color, minor diss Sx						
311		broken core for 1' at 311 & 316, fractured 326 – 331 brecciated matrix						
336	349	Vglm Qvein, broken core, brecciated matrix as per 273–336 with ~~increasing amount of green/black chlorite~~ and 349, minor diss Sx						
349	367	as above, ~~strong chloritic alt~~ locally						

ROYAL SCOT

DDH NO. 696

DIAMOND DRILL RECORD

Page 1 / 2

LOCATION Above ramp to 2900' level

			REMARKS
COLLAR	Northing		
	Easting		
	Elevation		
DRILLED	Azimuth		
	Dip		
	Depth	14'	
Da · Mo · Yr	Started	Oct 6	
	Completed	Oct 6	
	Logged	Oct 7	
EQUIPMENT	Machine	BBU 2	
	Core Size	BQ	
	Dip Tests	—	

PURPOSE

RESULTS

GEOLOGIST Rory MacIntosh Da·Mo·Yr 10/10/87

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 487-6%

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	2'	Casing						
2	7'	Valm: mod alt, m br. gn, H:S, mildly silicified, occas qtz veins, 1/2" w/ frac bx clasts 2% Sx in blebs + stringers						
7	11	Vein:						
7	8	strgly silicified, strgly alt valm m. gn H:S 10% Sx (py+po) in Blebs + stringers						
8	9.5	70% wh. qtz + 20% altred (distorted, sheared bx) wall Rock, 10-15% Sx (po>py) in blebs of wh. qtz/wallrock contact + in stringers in bands of alt wall rock						
9.5	11	Alt. valm: as for 7-8'						
11	11.5	valm: as for 2-7'						
11.5	12.8	missing core						
12.8	14	valm: silicified, w/ altered ant Scree wh. qtz						
		14' EOH.						

ROYAL SCOT

DDH NO. 697

DIAMOND DRILL RECORD

Page 1 / 10

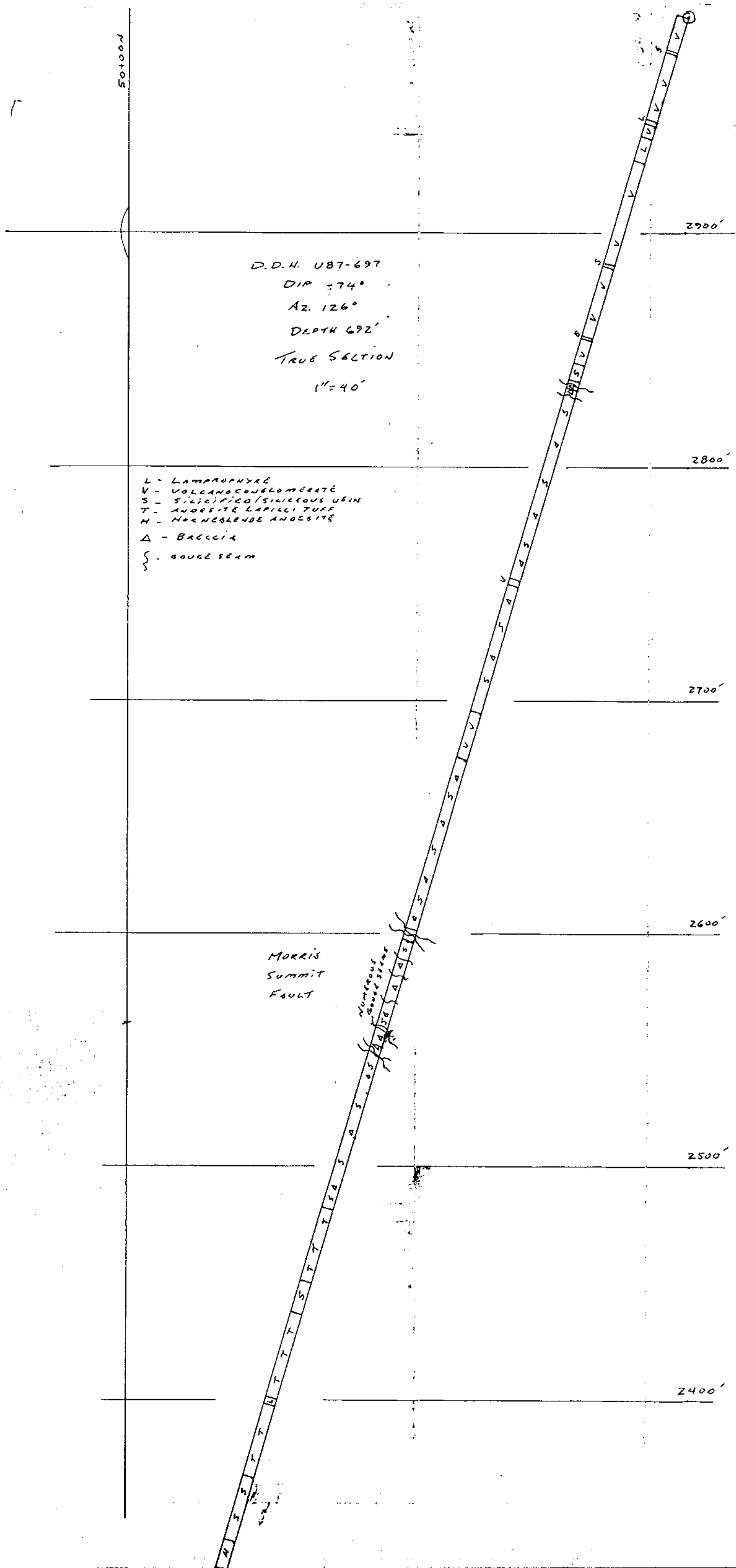
LOCATION Just above ramp to 2900 level

COLLAR	Northing	32+44N	REMARKS
	Easting	69+44E	
	Elevation	2991	
DRILLED	Azimuth	126°	
	Dip	74°	
	Depth	~~698'~~ 692	
Da·Mo·Yr	Started	Oct 6	
	Completed	Oct 10	
	Logged	Oct 10 87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE To drill through Morris Summit Fault; to test extension of Main Zone below fault.

RESULTS Established geology of Morris Summit Fault. Main Zone not intersected

GEOLOGIST Roy MacIntosh Da·Mo·Yr 10/10/87


50+00N
D.D.H. U87-697
DIP -74°
Az. 126°
DEPTH 692'
TRUE SECTION
1"=40'
L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED/SILICEOUS VEIN
T - ANDESITE LAPILLI TUFF
H - HORNBLENDE ANDESITE
Δ - BRECCIA
ʃ - GOUGE SEAM
2900'
2800'
2700'
2600'
2500'
2400'
MORRIS
SUMMIT
FAULT
NUMEROUS
GOUGE SEAMS

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 087-697

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		General: This hole passes through the Morris Summit Fault beneath the Main Zone at roughly 2700' elevation. No massive sulphide veins were encountered. Fault gouge occured in four locations from 162.2'-469' with the thickest and most clay-rich one at 408-413'; this is probably the Morris Summit Fault. The entire faulted region contains strongly silicified (in situ) breccias with silicification obscurring all original rock features, and from 213-217.5 passes into pure quartz. The hanging wall of the fault contains familiar volcano-glomerates, the footwall andesite lapilli tuff.						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DIAMOND DRILL RECORD

DDH NO. U87-697

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	2'	Casing						
2	10'	Volcanomerate: m br gn, H: 5+: silicified brdies obscured. Very weak frac bx w/ quartz infilling. 5% 5x (po) in blebs throughout, but come in qtz veins, where it occurs w/ min bt. chl.						
7	9.5'				34289	2.5'		
10	16.5'	Volcanoglomerate: m-dk gn, H 5+; mod altered, clast brdies obscured; 5% thin (1/8") qtz stringers 45° CA.						
16.5	18'	Quartz-sulphide vein: w/ volcanoglom as above, contact 11 CA. Quartz white w/ frags of vgl wall rx. 75% 5x (po) in blebs come at qtz/vgl cntct, but also in blebs throughout qtz.			34290	1.5'		
18	47.5'	Volcanoglom: m-dk gy gn, H 5+ unalt to mild prop alt, mtx supp. clast 10-30%, 1/4"-2"; 5% Qtz/fds veinlets (1/2") at 45° CA.						

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SUMMIT LAKE MINE

DDH NO. 087-647

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
47.5	48.8'	Lamprophyre dyke: dk gy, H:4 Groundmass dk gy, aphanitic. Phenoxts: 1) hbl: corroded blades + black blebs (1/16"), 10% of rock white calcite blebs, 5%, 1/16" — decayed Ca-plag?						
48.8	54.5'	Volcano glom: m gy gn, H:5 as for prev unit						
54.5	65'	Lamprophyre dyke: dk gy H:5 Ground mass: dk gy, aphanitic; Phenoxts: 1) hbl: corroded blades + blebs, 10%, 1/16-1/8" 2) calcite blebs 10% of rock, 1/8-1/4" (decayed Ca-plag?) no Sx.						
65	104	Volcano glom: m-dk gy gn H:5+ unaltered to mild prop alt; mtx supp. 10-30% clasts 1/4-2" angular to subangular, outlines locally (1-2") obscured. no Sx						

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SUMMIT LAKE MINE

DDH NO. 087-697

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
93	104'	10% qtz ad qtz/fds veinlets + stringers at ~80°CA. prop alt stronger in this region						
104	105.5'	Vo bx volcano glom: m gy gn + pink + white patchwork 80% vgl as above, but strongly frac bx w/ 20% qtz infilling. Quartz pink from 104-104.5)			34291	1.5'		
105.5	110'	Volcano glom: m. br gn H:5+ mod-strg prop. alt; silicified from 108-109.						
110	112'	Volcano glom/qtz vein: contact 11CA vgl as above, qtz vein: 60% qtz 30% silicified smired. bended wall rock, 10% Sx (po) in blebs come at contact			34292	2'		
112	143'	Volcano glom: dk gy gn H:5 mod prop alt, clasts corroded and obsured. 116-117: Qtz vein w/ Sx as for 110-112 121-121.5 broken core + min. chl. alt.			39293	31'		

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SUMMIT LAKE MINE

DDH NO. U87-697

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
143	144'	Banded quart vein: gy gn + white bands w/ 10% Sx(po) blebs calcerous. Bands of bx altered wall rx in qtz vein			34294	1'		
149	152.5'	Volcano glom: dk gn H:5+ clasts obscured by mod. prop. alt. not silicified. no Sx 145-146 - broken core 150.5-151 - broken core.						
152.5	155'	Volcano glom: m gy gn, H:5+. silicified much broken core. Sx << 1%.						
155	156'	bx volcano glom: m gy, H:5 silicified + laced w/ qtz. stringers + veinlets 30°CA 15-20% Sx(po). Clasts not visible, host rx bx. Grades to next unit w/ increasing qtz. Sx.			34295	1'		
156	160'	Quartz Sulphide vein: mottled + streaked m gy, wh. + br. H:5-7. Host rx + qtz nearly homogenized, w/ some banding and frac bx 20-30% Sx(po) Grades into wall rx on both sides			34296	4'		

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 87-697

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
160	162.2	bx volcanoclom: m gy. H:5+, as			31297	2.2'		
		for 155-156						
162.2	166	Faulted Area: 2 rock types w/ grad						
		contact 1) bx volcan clom mgy H:5+						
		as 155-156 2) fault gouge: m gy+						
		white salt + pepper, H:1-2 gouge						
		contains bx frags of val. argill.						
		+ sandy Units of bx val + gouge						
		~ 2"-4" alternating.						
166	168.4'	Breccia zone: m gy + white H:5+						
		w/ soft (3) spots. In site frac bx						
		of altered val and qtz. Strongly						
		silicified						
168.4	169.6	Fault Gouge: dk gy w/ lt. gy bx						
		frags H:<1, w/ bx frags H:5 sandy						
		argill non graphitic						
169.6	201.5	Silicified Breccia: mottled m - lt gy						
		+ white H:7 in situ bx. Extreme						
		silicification + alteration no						
		original rx textures visible. Qtz						
		veinlet at 45° CA (late stage?) Bx						
		extreme throughout w/ 70:90%						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 87-69?

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		frags, 10-30% qtz. Banding smearing + solution of bx frags F? Core sandy + somewhat broken from 169-180 no Sx						
201.5	202'	Quartz vein: white qtz H:7						
202	203.7'	Silicified Breccia m gy gn + wh. H:7 similar to 169.6-201.5, but clast band is less clearly defined.						
203.7	213	Extreme Silicified Breccia: transparent + wh. w/ pale yellow frags. H:7 In situ bx Near total silica replacement of clasts. No original textures visible Multiple bx of all clasts visible. Qtz content 85% or more, w/ pale yellow alt. indirectly clast ghost. Min (<< 1%) black wisps (bl chl?) Late stage? qtz veinlets 11 CA. Contact w/ prev. unit 203.7' sharp at 30° CA Content w/ next unit 213' gradational over 1.5'						

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SUMMIT LAKE MINE

DDH NO. 087-697

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
213	217.5	White quartz: H:7 clearly occas. (20%) patches 2" smoky Blue Ghost bx frag (10%) pale yellow + white. Drusy at 213.5, 214, 216.8						
214	215.5				31285	1.5'		
217.5	228	Silicified Breccia: as for 202-203.7 m gy gn + wh H:7 in situ bx Extreme silicification; no original text F? Broken core 222.5-226 Fault? 226.5-228						
228	251.5	Silicified unit: H:7 dun strongly silicified, no original text, qtz veinlets, not bx min. (<1%) Sx (py)						
251.5	254.5	Volcano glom: dk gn, m gn + wh H:6-7 silicified, banded strongly altered, no Sx.						
254.5	311	Silicified Breccia: dun w/ white streaks H:6-7 in situ bx strongly silicified, no orig texture Like unit 228-251.5 but bx w/ qtz infilling between clasts. Clast size 1/4-3" modal size - 1 1/2"						

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SUMMIT LAKE MINE

DDH NO. 087-697

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		Numerous (10-15%) qtz veinlets 1/16"-1/2" 50° CA. Bx less strong or absent: 267-267.5 276-277 284-286 292-300 unit becomes mottled w/ black-ghosts of orig clasts? no Sx						
311	332'	Volcanic glom: mottled m dk gy + wh. H:7 silicified strong prop alt some original clasts visible 330-332 Banded qtz. vein no Sx						
332	392'	Silicified Breccia: dun w/ wh. streaks occas bl. mottles or lt gn, m and dk gy patches strongly silicified and altered No orig text. In situ bx w/ clast size 1/8"-3", mod size variable 1/2"-1" prevailing by direction 30° CA min Sx 1-2% from:						
352	354'				34299	2'		
357	359'				34300	2'		
392	397'	missing						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 87-697

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
397	408	Silicified Breccia: dun H:7 as for 332-392						
408	413	Fault Gouge: wh., tan gy banded and salt+pepper H:<1 w/ siliceous clasts(?) Arenaceous, argill min. calcite. Much broken core. 412-412.5: clay, tan, wet fluid. Major fault? Morris Summit fault?						
413	418	Silicified breccia: lt grey+tan H:7 but breaks easily along arg. fracs main partings 30° CA						
418	422.5	Silicified Breccia + silicified gouge: salt and pepper H:7 4-5 in alter areas. in situ breccia w/ multi directional qtz veining. Frequent broken core.						
422.5	459.5	Silicified Breccia w/ fault gouge: + broken core alternation 1' sections of lt + dk gy Broken core 447-449 gouge 451-452.						

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SUMMIT LAKE MINE

DDH NO. 87-697

DIAMOND DRILL RECORD ___

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
459.5	464	Fault gouge + broken core m gy salt + pepper argill. Cleavage angle 30° CA						
464	467.5	Silicified Breccia: mottled lt gy m gy, lt gy gn H:7 in situ bx strongly silicified no orig text; clasts being replaced by qtz						
467.5	519	Silicified breccia: mottled and banded H:7 locally faulted in situ bx Remnant ghost of orig. rx intercalated w/ strongly silicified replacement on scale of 1/4 - 1" 477.5-478 silicified fault gouge 505.5-506.5 5x blebs (po, 5%)			5			
519	532	Silicified Unit: (andesite lapilli tuff?) H:7 m gy + wh. streaked Mild in situ bx, strong silicification						
532	565	Andesite lapilli tuff: dk gy gn H:6-7 silicified, mild in situ bx Black lapilli 1/32 - 1/16" locally obscured by sil. alt min dissem 5x (po 1%)						

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SUMMIT LAKE MINE

DDH NO. 87-697

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
542.5	543.5	po blebs 5%			5			
565	579	Silicified unit: tan, m gy, br. gy br. pink, m. gn br streaks ~ 10° CA						
		Hi 7 mild bx 567-569 No orig text.						
579	589	Andesite lapilli tuff: m gy gn. Hi 6-7 silicified, but black lapilli 1/32-1/16"						
		visible, mild sil bx. Occass <1% 5x (po) blebs + stringers						
589	617	Andesite lapilli tuff: m gy gn as for prev. unit mild sil bx 607-610						
617	620	Lamprophyre dyke: dk gy gn Hi 4-5 grandmass: dk gy gn aphantic, phenoxts: Dhbl 1/8" blades 2) fds white spheroids 1/4" 2% 5x (po)			5			
620	652	Andesite lapilli tuff: m gy Hi 6 black lapilli 1/32" peppered throughout Qtz stringers <5% multi direction; mild sil bx in places; Occas <1% 5x (po) blebs						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 687-687

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
1652	1681	Silicified unit mottled m gy bn m bn gn white qtz stringers 1:5 Mild sil bx; distortion of rx How text + dissol text Possible orig clasts 1/2 - 1" but orig text obscured <1% Sx (po) blebs						
1681	1692	Hornblendic Andesite: m gn gy H:S mtx: aphanitic m gn gy / phenocrysts: hbl in blades occas rounded 1/16 - 1/4" 15% of rx. Stringers qtz + Qc 30° CA (5%) no Sx						
		EOH						

ROYAL SCOT

DDH NO. U87-698

DIAMOND DRILL RECORD

Page 1/_____

LOCATION: JUST ABOVE RAMP ON 3000 LEVEL

			REMARKS
COLLAR	Northing	32+54N	
	Easting	69+54E	
	Elevation	2991	
DRILLED	Azimuth	239°	
	Dip	-56°	
	Depth	607'	
Da·Mo·Yr	Started	OCT 11/87	
	Completed	OCT 14/87	
	Logged	OCT 14/87	
EQUIPMENT	Machine	BBU2	
	Core Size	BQ	
	Dip Tests		

PURPOSE: DRILL IMMEDIATE N.W. OF FAULT BACK TO WEST.

RESULTS: SITUATION CONFUSED BY MAJOR SWARM OF LAMPROPHYRE DIKES. HOLE LOST AT 607' - NOT M.S. FAULT.

GEOLOGIST: R. MACINTOSH Da·Mo·Yr: 14/10/87

50+00N

D.D.H. U87-698
DIP -56°
Az. 249°
DEPTH 607' (STOPPED IN BAD GROUND)

TRUE SECTION

1" = 40'

2900'

2800'

2700'

2600'

L - LAMPROPHYRE
V - VOLCANOCONGLOMERATE
S - SILICIFIED / SILICEOUS VEINING
A - BRECCIA
⌇ - GOUGE SEAM

HOLE SHUT DOWN IN BAD GROUND

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 87-698

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
0	2	Casing						
2	18.5	Siliceous volm: md gy, intensly silicified, stg prop alt, mild chl alt, broken core 4-6" qtz stringers, 80° CA, banding 11.5-12.5 sub paralled to CA, Po blebs up to 20%						
18.5	67	Volm: dk gn gy, mild prop alt, clasts usually $\leq 3/4$", sub rounded frequent QF + QC stringers sub perpendicular to CA 3/8" thick, trace Sx						
67	133.5	Volm: md gy gn, mod-stng prop, clasts generally obscured, frequent erratic Q + QC stringers, minor Sx, trace chl. alt						
77	78'	QC vein, blebs of bl. chl. minor Sx						
73	74	broken core, pebble sized						
133.5	147.5	lamp: gy gn to gy bn rounded horn blends, rounded boggy feld. strong alt 146.5 - 147.5 few hornblends soft H<5 feld, minor Sx blebs diss Sx throughout.						
147.5	154	Volm: dk gn gy, mod prop alt, Q bands @ 153+154 30° CA 3" thick w/ mod chl alt blebs of bl chl + Po; diss						

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SUMMIT LAKE MINE

DDH NO. 698

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		Po < 10% throughout subrounded mod obscured clasts < 1" dia						
154	169.5	Lamp: md gy, rounded horn blends			S			
	5	+ felds trace to minor diss Sx, strong						
		alt 168-169.5, Po/Py filled fractures up						
		to 40%						
169	171.5	Q-Carb vein, strongly alt vglm?						
		QC vein - 20% Sx bone white color no						
		chl. visible vglm? pale gn color 1mm						
		(< 1/16") bl. frags. H < 5, erratic vein QC						
		stringers, no other visible clasts, visibly						
		difficult to distinguished lbl vglm						
		+ alt lamp dyke.						
171.5	173	vglm: md gn mod - strg prop alt,						
		clasts visible but many very obscured						
		bl. speckling noted above, present						
		throughout some minor diss Sx;						
		strips of fine (clasts < 1/4" dia)						
		brecc. 172.5-173 w/ siliceous frac						
		w/ bl. chl. and Po blebs						
173	173.75	Banded vein: bl + dk gn, wh. banding						
		strg chl. alt, very strongly sil'd						

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SUMMIT LAKE MINE

DDH NO. 698

DIAMOND DRILL RECORD ___

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		5x 30% in strings						
173.75	222	Valm: md gy gn, subangular						
		clasts <1" dia, brecc. at 182-182.5'						
		erratic Q + QC stringers throughout						
		mod prop alt, minor chl. alt.						
		scattered bl. chl blebs 5% diss Sx						
		throughout mild to mod sil.						
222	254.5	blocky & broken core Valm: md-						
		dk gn gy, mild mod prop alt..						
		clasts <1" QF bands <1/4" thick						
		80° CA, diss Sx & blebs 5-10%, mild-						
		mod sil scattered blebs of bl. chl.						
255.7	257	missing batch						
257	262	Valm: md gy gn, subrounded clasts						
		mod prop alt, mildly sil'd, trace						
		diss Sx, blocky core						
262	268.5	Valm: med gy gn, subrounded clasts						
		mod-strong alt, mod sil'd, scattered						
		blebs of Po & bl. chl. mod chl. alt						
		obscured subrounded clasts <3" dia						
		block core, pebble sized for 6"						
		at 168.5 + 165						

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SUMMIT LAKE MINE

DDH NO. 698

DIAMOND DRILL RECORD

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
269.5	274.5	Q+QC vein s.v. strongly sil'd & brecc. PoPy stringers throughout 35-45%						
274.5	280.5	siliceous breccia: pale gy, mineralized frac., 5x 20% mainly Q+QC matrix as above in situ Bx.						
280.5	283	Siliceous Valm: md gn-gy, sub rounded clasts, mod chl. alt, mod pop alt. Po + bl chl blebs 5x 25%.						
283	285	QC vein - siliceous brecc. as for 269.5-274.5						
285	296	Siliceous Valms. lt gy - gy gn. mod stng pop alt, obscured clasts sub rounded <1" dia, erratic Q stringers mineralized frac 5x 10-20% gn chl. alt adjacent to QC bands at 295-296'						
296	298	Lamp: sil'd wall rock contact lamp - med gy, rounded hornblende & altered feldspars, 10-15% diss Py Wall rock: pale gn strongly sil'd HBlo 5x stringers 10%-20%						
298	303	Sil'd Valm: md - lt gy gn v.						

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SUMMIT LAKE MINE

DDH NO. 698

DIAMOND DRILL RECORD ___

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
		Sil'd Sx filled fracs upto 25%									
		clasts strgly obscurred rounded									
		<1" dia mild-mod chl. alt									
303	332	Sil vglm-breccia: md qy-qy qn									
		flooded w/ erratic Q+ Qc stringers									
		minor diss Sx throughout H:4-6									
		mod to locally strg chl. alt insitu Bx									
332	332.3	gouge - soft H≤3, pebble sized									
		broken core									
332.3	383	lamp dike: md qy-lt qy qn HKS									
		mod Sand 346-347 mod-strgly									
		alt., rounded Q obscured phenocryst									
		of hornblende feld. qn alt 347-372									
		soft H<4? 372-383, dk qy, diss									
		Sx 10% throughout, 35% md horn-									
		blends 10% md fds.									
383	399.5	Sil'd breccia: Q flooded vglm?									
		md qy qn - bl. intense Q stringers									
		flooding, strg qn alt. of Q stringers									
		strg chl. alt, minor diss Sx through-									
		out insitu bx									
~~399.5~~	408	~~Lamp dike (Sx Q breccia)~~									

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 698

DIAMOND DRILL RECORD

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
399.5	400	sil'd breccia lamp contact: lamp breccia clasts w/in wall rock breccia, lamp. brecciated w/ Q stringers, diss Sx 10%						
400	405	lamp dike: dk gy speckled w/ rounded bl. hornblends & obscured rounded wh. feldspar phenos						
405	428	lamp dike - med gy, horn blends & fds very obscurred giving matrix homogenous gy appearance 408-408.75' reddish alt H≤3 wate soluble, no reaction to HCl						
428	437	QFQC flooding of Valm - dk blue bl. yellow-wh. stringers, minor diss Sx, mod chl alt, strong pcop alt, clast v. obscurred gouge @ 433						
437	441	lamp dike: md-dk gy, mod-stng alt frac. blebs of gn H<5 chl? alt, trace Sx, speckled w/ rnd Hnbl. & fds						
441	443	siliceous breccia: pale gn, 1" thick						

Royal Scot Resources Ltd.

SUMMIT LAKE MINE

DDH NO. 698

DIAMOND DRILL RECORD ——

DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
		bands of alt lamp dike, minor calcium, trace Sx						
443	447	lamp dike: as for 437-441						
447	457	Vol. breccia: blue bl. w/ gn chl alt flooded w/ Qfe QC stringers stng chl alt trace Sx, some lamp clasts?						
457	472.5	Vol breccia: pale gn otherwise similar to 447-457 intrusions of lamp dike sub parallel to CA 470-472.5, blocky core 470						
472.5	474	banded Q vein: stng chl. alt of associated wallrock, trace Sx, blocky core						
474	482	intensly alt. sil. vein: dk gn blue bl., stng chl. alt, intensely sil'd gouge @ 475; blocky core throughout trace to minor Sx						
482	497	lamp dike: mod stng alt, reddish alt 485-487 & 490-492 as for 408-408.75 possible chl. alt? blocky core throughout gouge at 491-492;						

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ___

DDH NO. 698

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po			SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag	
499	505	Q vein: pale gy-wh. qtz bands 45°									
		CA w/in intensely sil'd wall rock									
505	508	lamp dike: bl hbl + fds pheno-crysts extremely obscurred and corroded, sil. joints + fracs.									
508	522	Q flooded vol. breccia - blue bl. w/ numerous wh. qtz-Qc stringers breccia clasts <1/4" dia, trace Sx									
522	529	Vol breccia: bleached gy-yellow mod-strng alt of clasts, intensely sil. chl. banding 11 to CA between 527-529, trace - no Sx blocky core									
529	557	Vol. breccia: blue bl. matrix + large 2-3" gn bo clasts Qc+QF erratic stringers flooded throughout clasts locally mod obscured, local banding of chl. alt, trace - no Sx blocky core									
557	579	Vol breccia: blue gy - gy gn intensely sil'd, fewer qtz stringers than 522 - 557, scattered chl. alt. + gn @ bl. chl.									

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SUMMIT LAKE MINE

DIAMOND DRILL RECORD ——

DDH NO. 698

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DISTANCES From	DISTANCES To	DESCRIPTION	Sx Py	Sx Po	SAMPLE Number	SAMPLE Width	ASSAYS Au	ASSAYS Ag
579	581	Sil. gouge - bracken. vessicular qtz vein.						
581	592	brecciated Q vein: wh - med gy QC & QF breccia clasts in sil matrix.						
592	602	Vol breccia: blue gy as for 557 - 579						
602	607	missing (fault)?						
		EOH 607'						

NOTE; PLAN FOR WESTERLY DRILLING D.D.H'S U87-686 to 695

FIG. 4

NOTE;
DIAMOND DRILLING AUG TO OCT. 1987

1987

THE PURPOSE OF THE PLAN IS TO INDICATE LOCATION OF 1987 DRILL HOLES.

GEOLOGICAL BRANCH ASSESSMENT REPORT

FIG-3

16,768

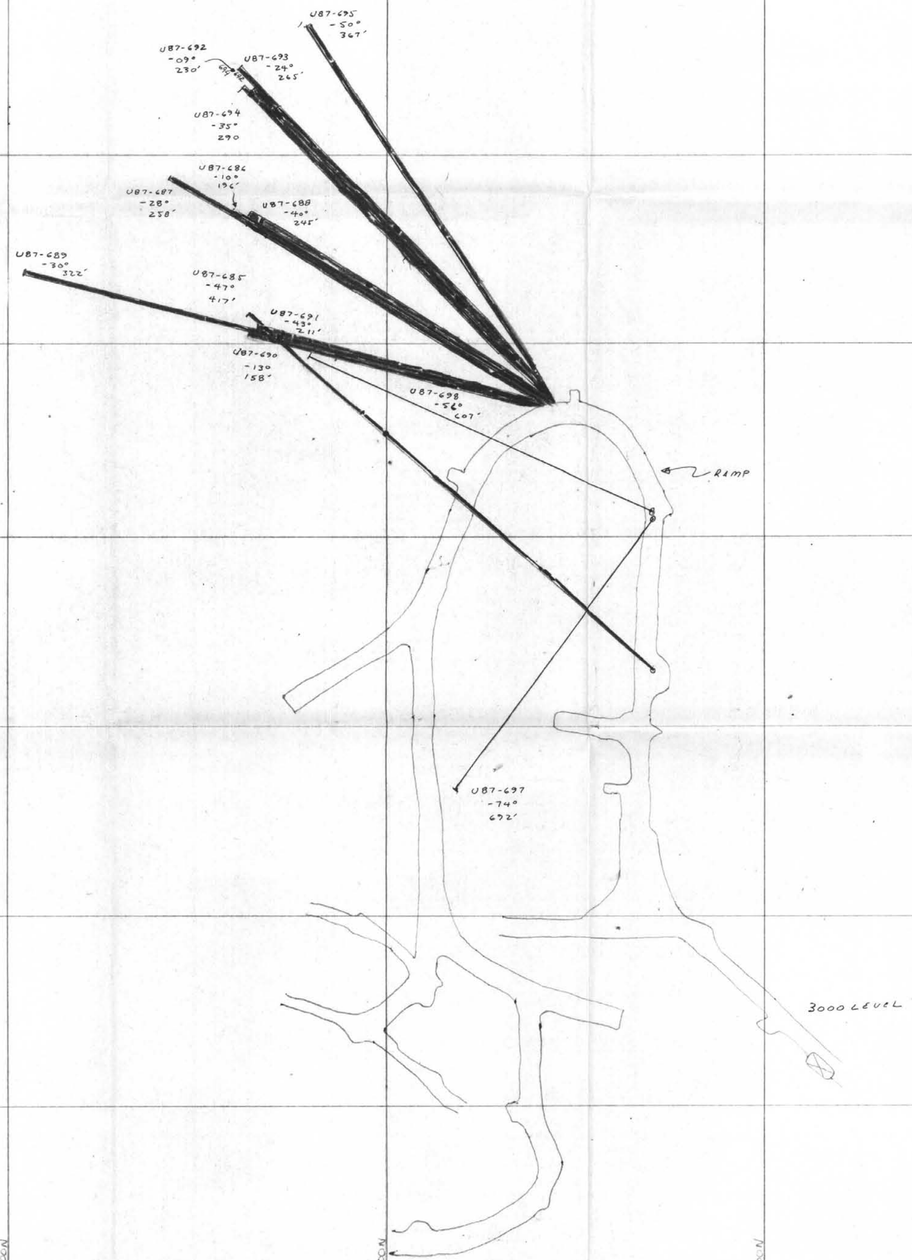
ROYAL SCOT RESOURCES LTD.

SCALE 1"=40'	APPROVED BY:	DRAWN BY G.S.
DATE AUG. 83		REVISED

SUMMIT LAKE MINE - LAYOUT OF 1987 DRILL HOLES U87-681 TO 684

3000 LEVEL

DRAWING NUMBER: U 95 58 GP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,768

THE PURPOSE OF THE PLAN IS TO INDICATE LOCATION OF 1987 DRILL HOLES ON WEST SIDE OF 3000 LEVEL.

FIGURE 4

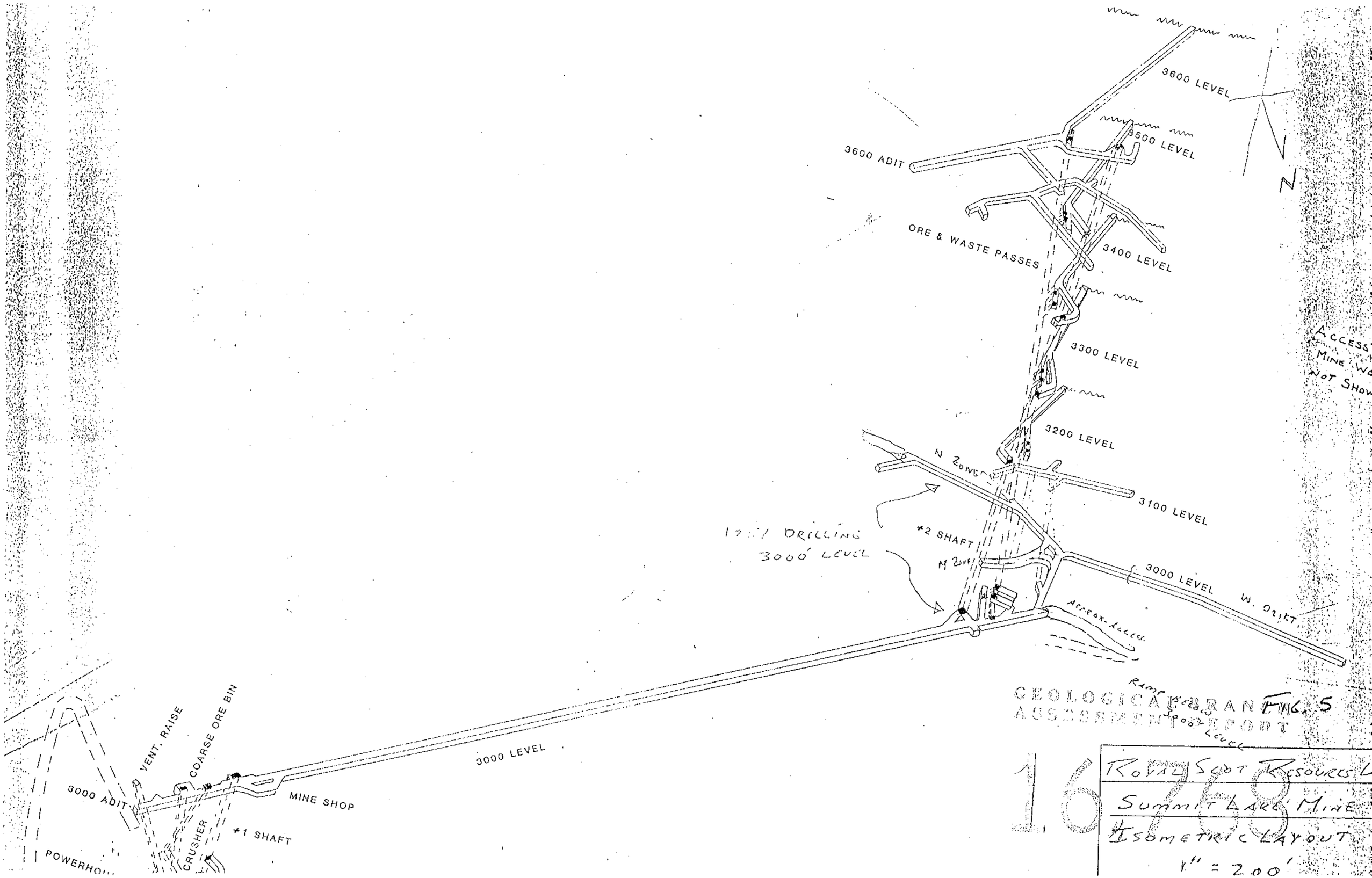
ROYAL SCOT RESOURCES LTD.

SCALE: 1"=40'	APPROVED BY:	DRAWN BY: JMP
DATE: OCT/87		REVISED:

SUMMIT LAKE MINE - 3000 LEVEL
WEST DRILLING 1987 AUG TO OCT.

3000 LEVEL — DRAWING NUMBER:

BCIL 8852D-SIGM



GEOLOGICAL BRANCH
ASSESSMENT REPORT

FIG. 5

16

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Summit Lake Mine

Isometric Layout

1" = 200'