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MINING ENGINEERING**

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10/87

**GEOLOGICAL REPORT**

on the

**AUFEAS GOLD PROSPECT**

New Westminster Mining Division - British Columbia

Lat. 49° 20.6' N.

Long. 121° 29.1' W.

N.T.S. 92 H/6W

for

**OPERATOR: SILVER CLOUD MINES LTD.**

**OWNER: L. E. WILLIAMS**

by

Donald G. Allen, P.Eng. (B.C.)

December 15, 1986

Vancouver, B.C.

15,872

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**FILMED**

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## SUMMARY

Silver Cloud Mines Ltd. holds 54 claim units on Wardle Creek, a tributary of Silver Creek, near Hope, British Columbia. The claims cover gold-bearing quartz veins that were worked as early as 1911 and were mined from 1937 to 1940. Recorded production from the property, formerly also known as the Jumbo and Camrock Mines property, totalled 417 tonnes that graded 27.1 grams per tonne (0.79 ounces per ton) gold, 40.5 grams per tonne (1.81 ounces per ton) silver and 0.6% copper. The showings are developed by 294 metres of underground workings in two adits and two stopes.

The property is underlain by quartz diorite of the Spuzzum batholith. Faulting and vein development on the property may be related to a branch of the Fraser River fault (Hope fault) which passes within two kilometres of the showings. Mineralization consists of arsenopyrite, chalcopyrite and pyrite in quartz veins that occur in faults over a strike length of 600 metres. Strong linear fractures parallel to the Aufeas vein occur for at least two kilometres, indicating good exploration potential for other mineralized structures. Well-developed carbonate and chlorite alteration occur as an envelope along the veins and faults.

Since Silver Cloud acquired the property in 1983 it has conducted the following work: road construction and repair, 55 metres of underground development to provide access down to old workings, surface and underground sampling, and 913.7 metres of diamond drilling.

Interesting gold values were obtained from both underground sampling and diamond drilling on the Aufeas vein. Some of the better gold assays from the vein (over a width of one metre or greater) range from 5.1 to 22.6 grams per tonne (0.14 to 0.65 ounces per ton). Gold values obtained from drill intercepts in the Bluff vein 350 metres down Wardle Creek from the adit on the Aufeas vein are significant but widths are narrow. Grades from surface sampling and drilling on the Wardle Creek fault zone (Creek vein) range from nil to weakly anomalous, however one significant gold assay of 57.6 grams per tonne (1.68 ounces

per ton) was obtained over a width of 15 centimetres.

A program of additional soil geochemical sampling, diamond drilling, bulk sampling and metallurgical testing is proposed.

#### CONCLUSION

Significant gold values have been obtained from at least two drill holes which intersected the Afeas vein. The best intercept is from drill hole 85-2 which intersected a grade of 22.6 grams per tonne (0.66 ounces per ton) over a mining width of one metre, with a number of underground samples which graded 5.1 to 8.2 grams per tonne (0.15 to 0.24 ounces per ton) over a similar width. Sampling to date indicates a possible "nugget" effect, i.e., gold values are unevenly distributed, with gold values ranging from 1.7 to 96.6 grams per tonne (0.05 to 2.7 ounces per ton) even on sulphide-rich material. Bulk sampling and metallurgical testing from underground workings are warranted.

#### RECOMMENDATION

A program of further diamond drilling (Phase II) is recommended to obtain more intercepts of the Afeas vein. This can be accomplished from drill sites on surface near the portal of the adit or from underground. A number of short holes should be drilled in the Wardle Creek fault zone, to determine whether or not any potential mineralized shoots are present.

Bulk sampling is recommended on the Afeas vein to determine overall average grades and to obtain samples for metallurgical testing.

An attempt should be made to trace the Afeas vein to the east on surface by additional soil geochemical sampling on the MAC 4 and 6 claims. Should soil surveys be successful in indicating the vein trend, one drill site should be established on the slopes above and to the south of Wardle Creek. Helicopter support will be required.

Reconnaissance geochemical soil sampling and prospecting should be carried out throughout the entire claim area, considering the abundance

of strong linear features visible on air photos. As an aid to this work, an orthophoto and topographic base map should be prepared.

Should results of Phase II drilling and metallurgical testing be successful, then a stepped-up program of diamond drilling and/or underground rehabilitation and drifting will be warranted.

Estimated costs of Phase II and III are \$150,000 and \$230,000, respectively, for a grand total of \$380,000.

Donald E. Ah

ESTIMATED COSTS OF RECOMMENDATIONPhase II

Diamond drilling		
4,000 feet @ \$25/ft. (all incl.)		\$100,000
Supervision, geochemical sampling, geological mapping		
Salaries		
Geologist	15 man days @ \$350	5,250
Assistant	1 man month @ \$3,000/mo.	3,000
Orthophoto and topographic map		3,500
Drill site preparation		
Labour	10 man days @ \$200	2,000
Helicopter	10 hrs. @ \$500/hr.	5,000
Vehicle rental, fuel		1,500
Room and board	45 man days \$35	1,575
Material and supplies		500
Assays and geochemical analyses		2,500
Metallurgical testing		10,000
Maps, report		<u>2,000</u>
	Total	\$136,825
	Contingencies	<u>13,175</u>
	<b>Total</b>	<b>\$150,000</b>

Phase III

Diamond drilling	7,000 feet @ \$25/ft. (all incl.)	\$175,000
Drill site preparation, road construction		
Bulldozer	50 hours @ \$100	5,000
Helicopter support		5,000
Salaries		
Geologist	1 man month @ \$5,000/mo.	5,000
Laborer-assist.	2 man months @ \$3,00/mo.	6,000
Room and board	90 man days @ \$35/day	3,150
Vehicle rental, fuel		2,500
Material and supplies		1,000
Assays		2,000
Maps, report and consulting		<u>5,000</u>
	Total	\$209,650
	Contingencies	<u>20,350</u>
	<b>Total</b>	<b>\$230,000</b>
	<b>GRAND TOTAL</b>	<b>\$380,000</b>



## INTRODUCTION

Silver Cloud Mines Ltd. holds 54 claim units on Wardle Creek, a tributary of Silver Creek, near Hope, British Columbia (Figures 1 to 3). The claims cover gold-bearing quartz veins that were worked as early as 1911 and were mined from 1937 to 1940. Production from the property, formerly also known as the Jumbo and Camrock Mines property, totalled 417 tonnes (460 tons) that graded 27.1 grams per tonne (0.79 ounces per ton) gold, 40.5 grams per tonne (1.18 ounces per ton) silver and 0.6% copper. The showings are developed by 294 metres of underground workings in two adits and two stopes.

Since Silver Cloud acquired the property in 1983 it has conducted the following work: road construction and repair, 55 metres of underground development to provide access to old workings, surface and underground sampling, and 913.7 metres of diamond drilling in twelve holes. 1985 drilling was supervised by R. K. Burton, geologist, and 1987 drilling was supervised by the writer. Results of this work are summarized in this report.

## LOCATION, PHYSIOGRAPHY, ACCESS

The Aufeas gold prospect is situated five kilometres southwest of Hope, British Columbia, and 160 kilometres east of Vancouver (Figure 1). The claim area lies between elevations 500 and 3,000 feet (150 and 915 metres) on Wardle Creek, a tributary of Silver Creek. Slopes in the area are steep and covered with a virgin forest growth typical of the Coast Range. Access is via Highway 1 to the Silver Creek interchange, and thence up Silver Creek to Wardle Creek, a distance of two kilometres. A rough 4-wheel drive road leads up Wardle Creek to the underground workings (Figure 2).

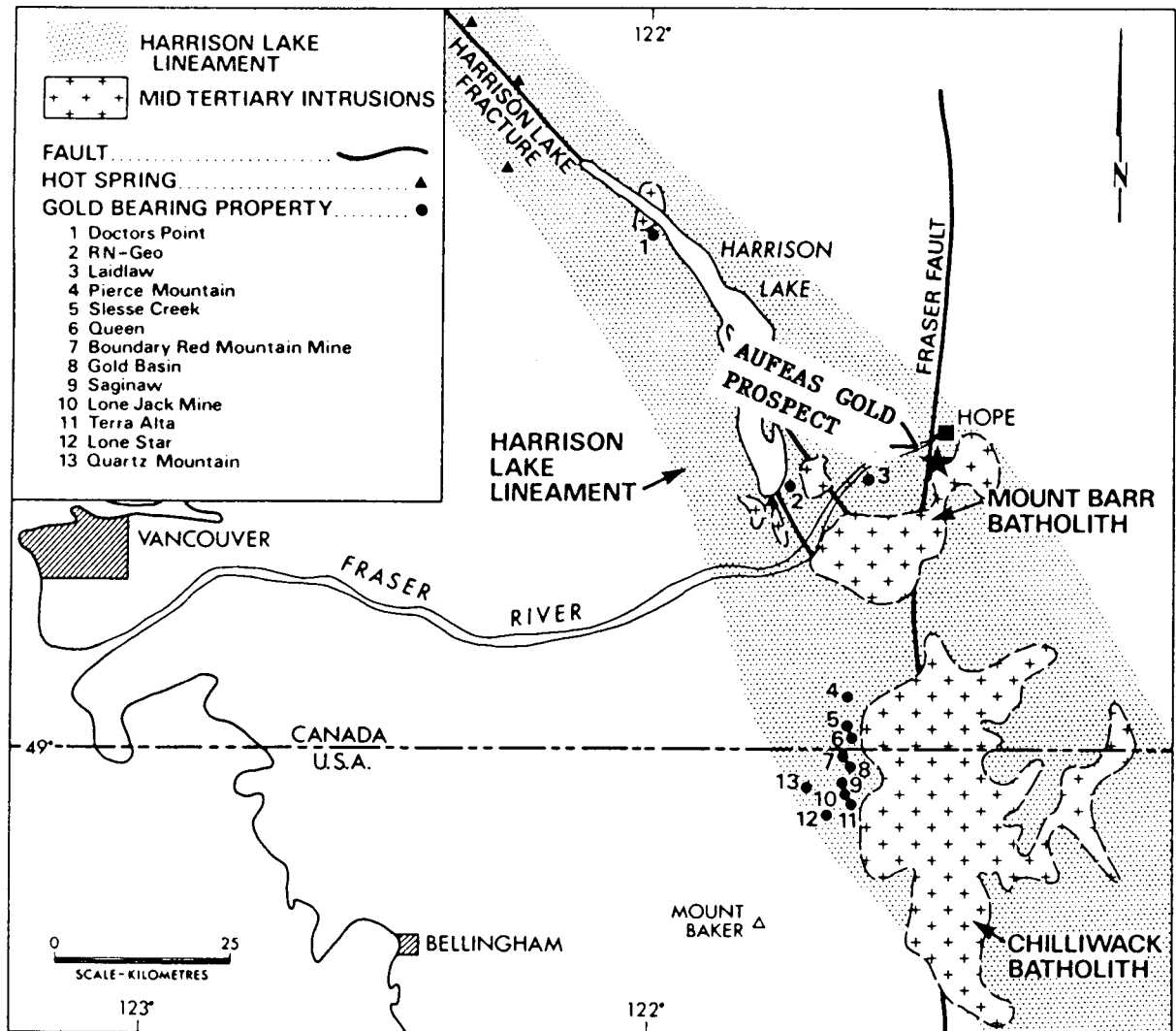
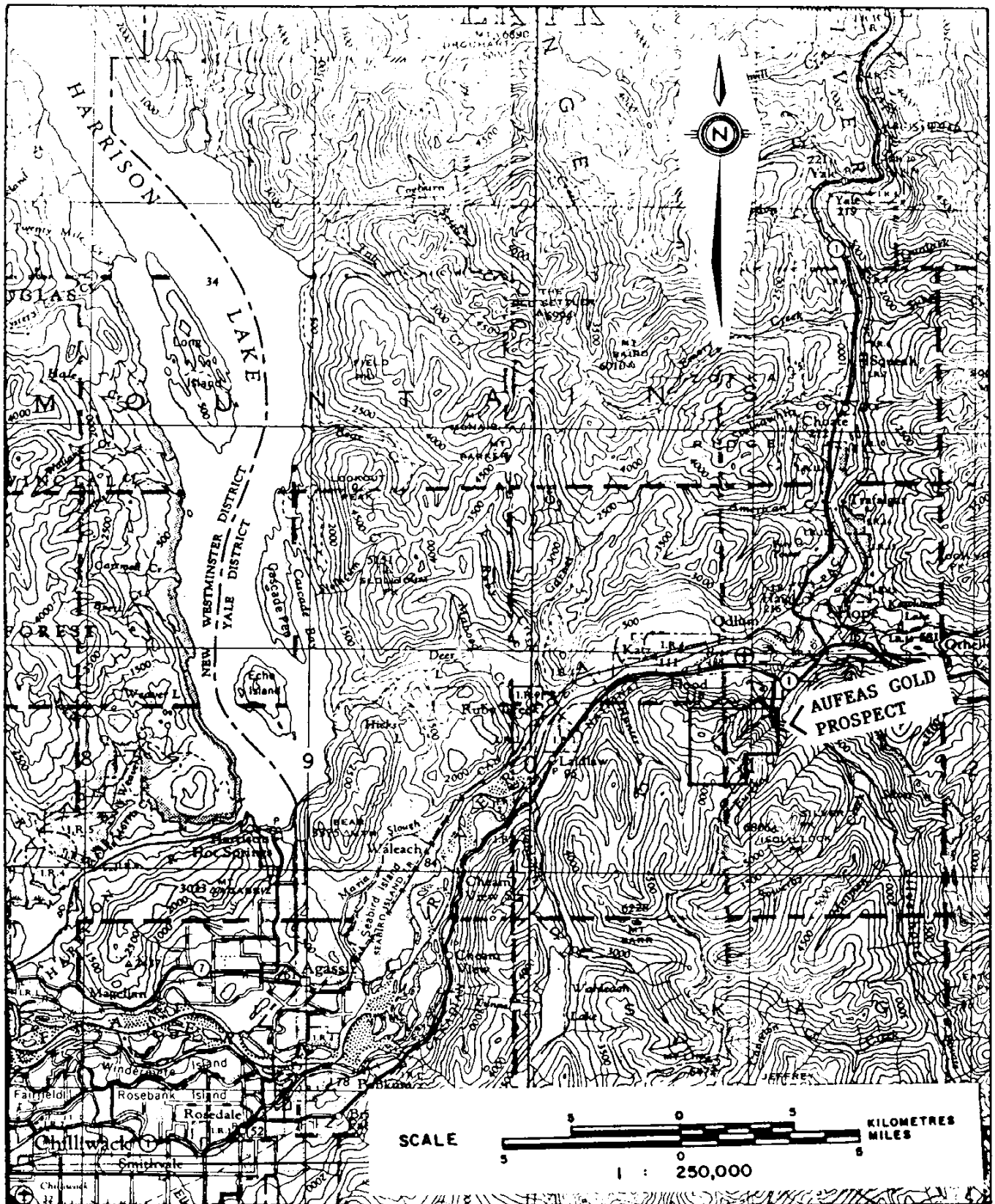


Figure 1: Location of gold occurrences and related Mid-Tertiary plutons along the Harrison Lake lineament.

(After Ray, 1986)



N.T.S. 92 H

SILVER CLOUD MINES LTD.  
**ACCESS MAP**  
 AUFEAS GOLD PROSPECT

New Westminster Mining Division - British Columbia

### CLAIM DATA

The Aufeas property is comprised of 54 claim units (Figure 3) as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Type</u>	<u>Record No.</u>	<u>Expiry Date</u>
MAC 1-6	6	2-post	368-373	November 2, 1993
SW	20	M.G.S.	1549	September 16, 1990
HUNTER I	16	M.G.S.	1588	October 18, 1990
HUNTER II	12	M.G.S.	1589	October 18, 1990

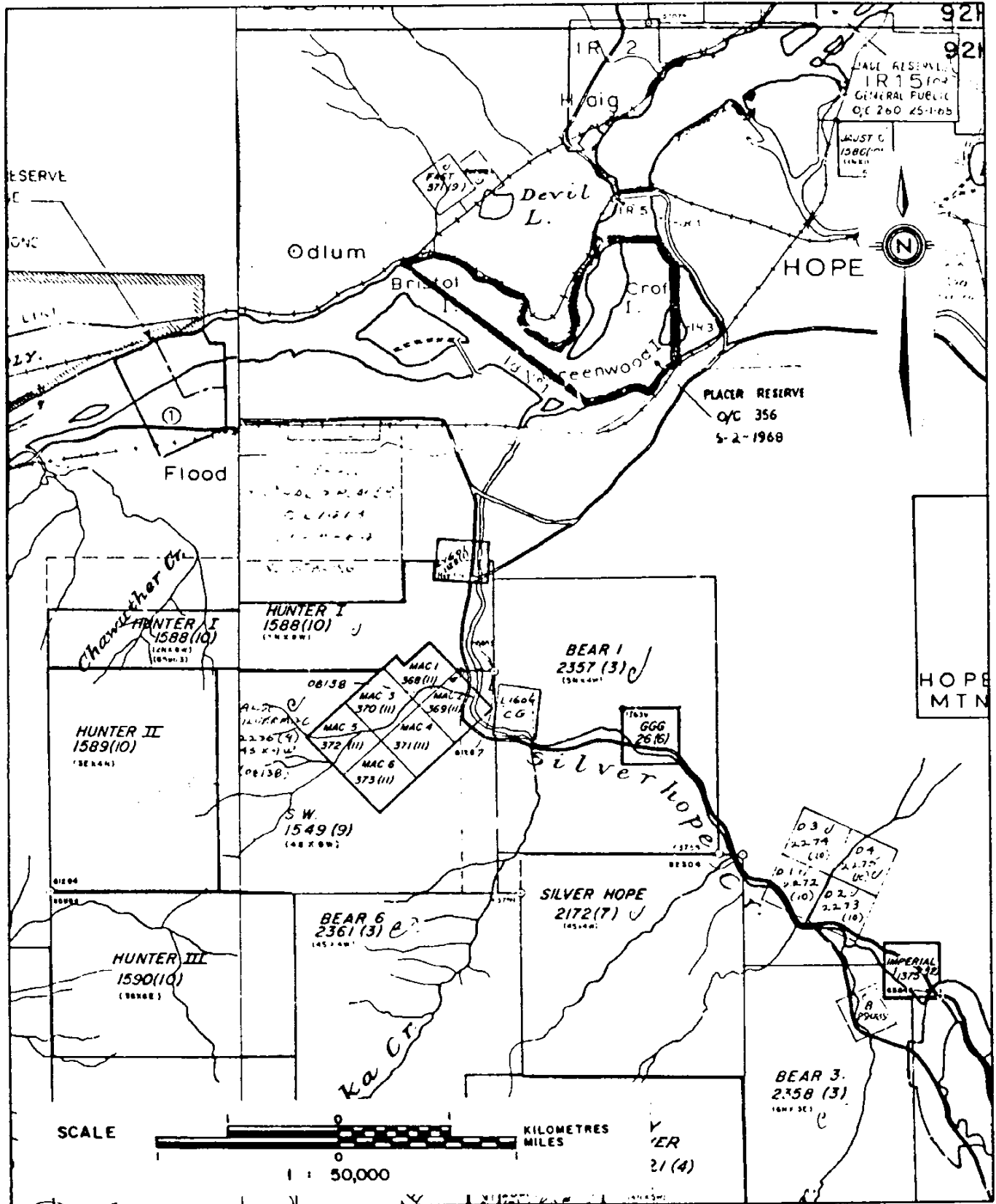
The MAC 1-6 claims are owned by Silver Cloud Mines Ltd. and the SW and Hunter claims are held under option.

### GEOLOGY

#### Regional Geology

The MAC claims are situated in the Hope Map area, 92 H West, the geology of which has been summarized by Monger (1970). The Hope-Coquihalla area has been described in more detail by Cairnes (1924) and more recently by McTaggart and Thompson (1967). Richards and McTaggart (1967) described the granitic rocks in the area.

The area of interest lies at the southern end of the Coast Plutonic Complex where it intersects the northern end of the Cascade Range. The Coast Plutonic Complex is a northwest-trending belt of tonalitic intrusive and metamorphic rocks that extend the length of British Columbia. The Cascade Range consists of a north-trending belt of Cenozoic volcanic and plutonic rocks that extend from northern California to southern British Columbia. These plutonic rocks in the area include Spuzzum Intrusions (diorite and tonalite) which range in age from 79 to 103 m.y., the Silver Creek stock (tonalite) dated at 35 m.y., and the Mt. Barr Batholith (granodiorite and tonalite) which ranged in age from 16 to 18 m.y.



N.T.S 92 H 5E, 6W

SILVER CLOUD MINES LTD.  
CLAIM MAP

AUFEAS GOLD PROSPECT



Donald G. Allen  
New Westminster Mining Division - British Columbia  
exploration Ltd.

Part of a major structural feature, the Fraser River fault zone (Figures 1 and 4) lies along the east side of Silver Creek. This fault zone extends from the International border northward for 250 kilometres and may be a major tectonic boundary extending to the Yukon.

#### Property Geology

The Aufeas gold prospect is underlain by intrusive rocks of the Spuzzum Batholith which extends many kilometres to the north and northwest and forms one of the larger plutons of the Coast Plutonic Complex (Figure 4). Richards and McTaggart (1976) have distinguished two main units - a central zone dioritic complex and a surrounding, probably younger, tonalite. The main rock type observed in the MAC claims is a biotite hornblende tonalite of the border phase. The rock is medium-grained and has a weak foliation.

#### Structure and Mineralization

A prominent shear zone up to five metres wide is exposed in Wardle Creek in underground workings and upstream from the working (Figure 5). The fault strikes N 35° E and dips 55° to 70° southeast. The mineralized fissure veins are presumably the offshoots from this fault zone, which in turn may be related to the Hope fault.

The Aufeas vein is best exposed in the underground workings. It is a fault zone ranging from one to two metres wide which contains narrow (1 to 20 centimetres in width) quartz veins containing abundant and locally massive arsenopyrite, pyrite and chalcopyrite on either or both the hanging wall and footwall sides. This zone trends east-northeasterly and dips 35 to 55° to the southeast and is probably one of a number of mineralized faults subsidiary to the Wardle Creek fault. These veins have been observed over a distance of 600 metres.

Scattered narrow faults and slip planes occur in the diorite in the adit. Several quartz-arsenopyrite veinlets, one to five centimetres wide, are also present.

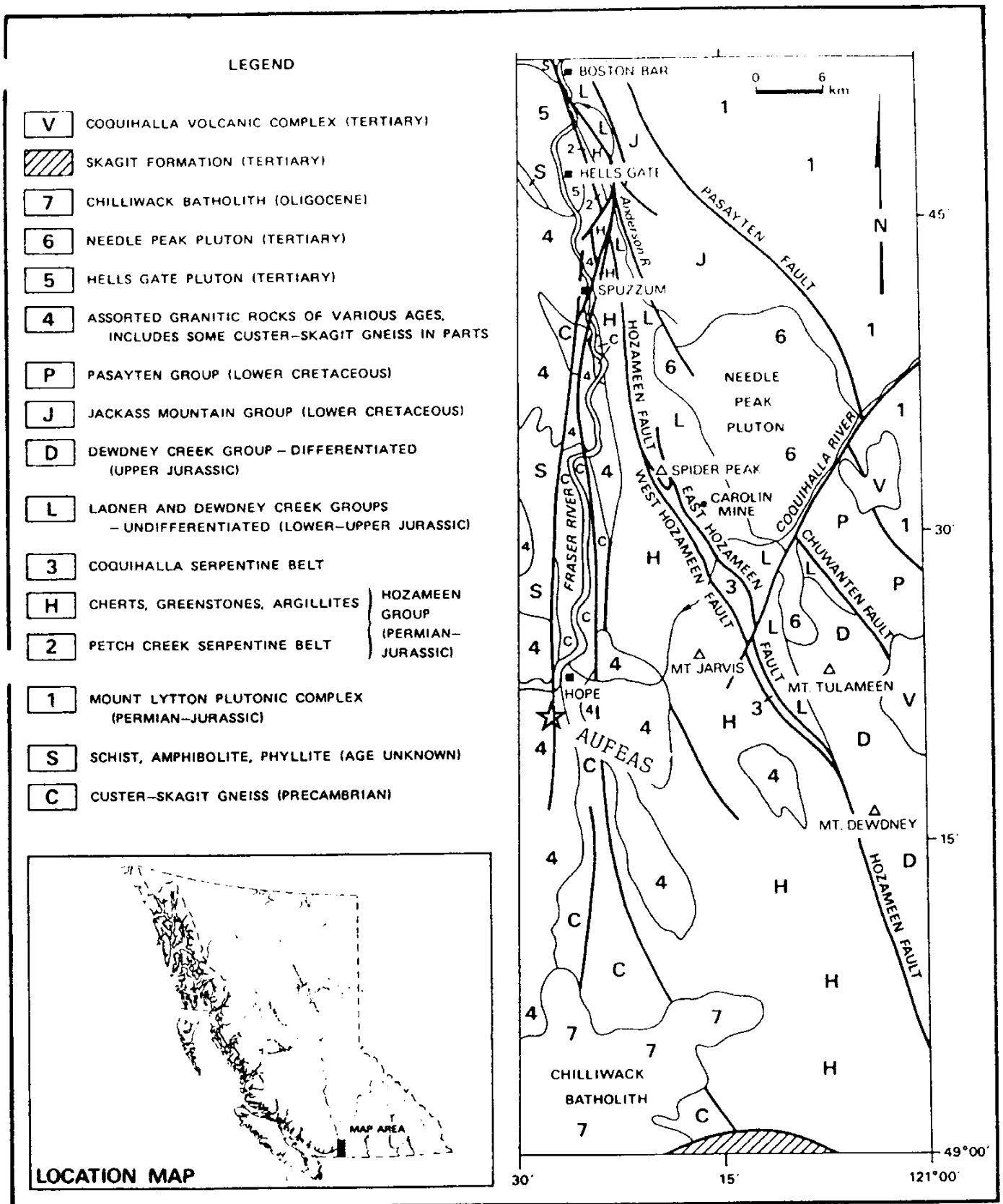


Figure 4: Regional geology of the Hope-Boston Bar-Coquihalla River area. (Adapted after Monger, 1970 and Ray, 1983, 1984)

### UNDERGROUND SAMPLING

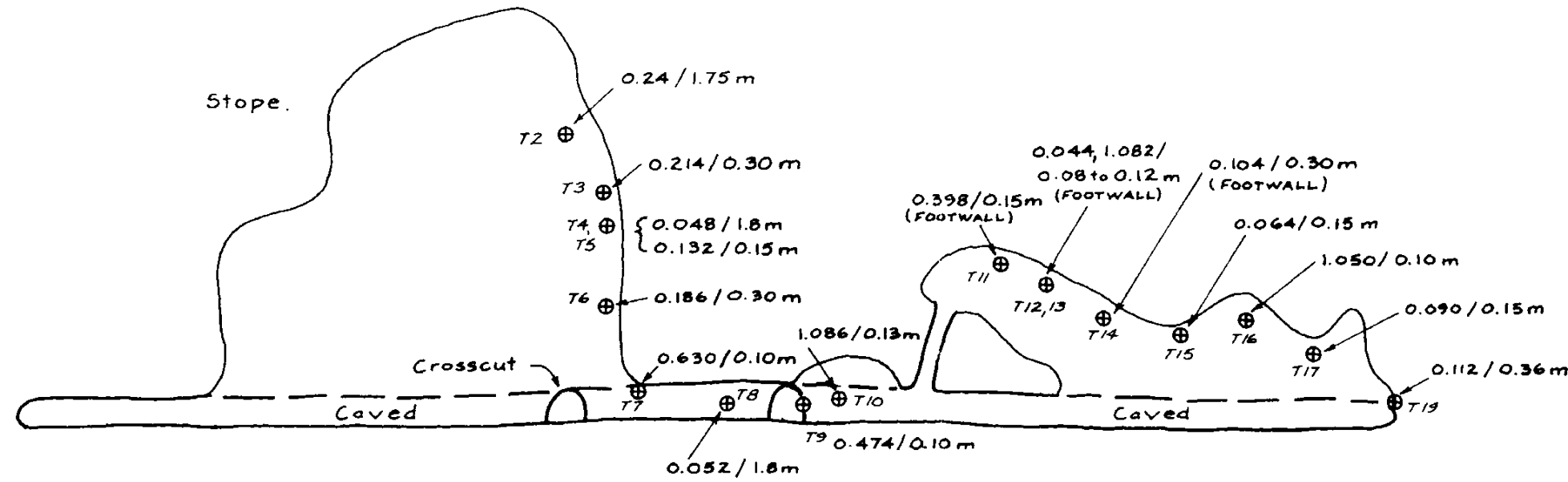
Channel sampling was carried out on selected accessible locations on the main vein. At many of the sample sites, the harder vein material and the softer fault material were sampled separately because of the difficulty in maintaining an even sample channel across both. Samples were assayed by Rossbacher Laboratory Ltd. by atomic absorption methods, and by Chemex Laboratories Ltd. by fire assay. Results by fire assay averaged 38 percent higher than by atomic absorption methods. Sample sites and results are plotted on Figure 6. Assay results are presented in Table 1.

The most significant results were obtained on the east side of the westernmost stope (Figure 6). Best values obtained were 8.2 grams per tonne (0.23 ounces per ton) gold over 1.75 metres and 6.2 grams per tonne (0.18 ounces per ton) over one metre (Samples GT 2 and 6).

Gold values in the quartz veins range from 5.1 to 37.0 grams per tonne (0.15 to 1.08 ounces per ton) over widths of up to 17 centimetres. Low values as well as high values were obtained on pyrite and arsenopyrite-rich vein material, indicating that gold values are unevenly distributed or that the "nugget" effect of gold is significant. The average of past shipments (0.79 ounces per ton) is probably a good indication of the average gold content of vein material. The fault gouge and broken rock appears to average about 1.7 grams per tonne (0.04 ounces per ton). Combining some of the better grade gold assays of the quartz vein material with grades in the fault zone indicates grades of 5.1 to 6.1 grams per tonne (0.15 to 0.17 ounces per ton) over a mining width of one metre at sample sites 10, 13 and 16.



Note: Section plane Az. ≈ 245°  
Looking northwest.



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,872**

Drill intersection 0.747/0.11m  
True width 0.11m

Drill intersection 0.087/.99m  
True width 0.76m

DDH UG-85-1

DDH UG-85-2

Drill intersection 0.874/0.90m  
True width 0.76m

DDH UG-85-3

DDH UG-85-5

Drill intersection 0.155/3.42m (including 2.274/0.29m)  
True width 1.45m

**LEGEND**

- Drill hole - vein intersection; oz/ton Au / vein width (on core).
- 0.24/1.75m  
T2 ⊕ Rock sample site; oz/ton Au / vein width.



*Donald G. ...*  
**A.M. exploration Ltd.**

SILVER CLOUD MINES LTD.  
**AUFÉAS GOLD PROSPECT**  
NEW WESTMINSTER MINING DIVISION - BRITISH COLUMBIA

**LONGITUDINAL SECTION  
IN THE PLANE OF THE  
AUFÉAS VEIN**

February, 1986

DIAMOND DRILLING

A total of 913.7 metres of diamond drilling in 12 holes has been completed to date on the Aufeas property as follows:

<u>Drill Hole</u>	<u>Length</u>	<u>Azimuth</u>	<u>Dip</u>
U85-1	60.3 m	310 <sup>0</sup>	-45 <sup>0</sup>
U85-2	95.7	038	-50
U85-3	86.2	-	-90
U85-4	100.9	150	+35
U85-5	32.6	150	-71
S86-1	59.1	-	-90
S86-2	15.2	135	-35
S86-3	29.3	090	-42
S86-4	17.4	095	0
S86-5	126.5	157	-10
S86-6	57.9	010	-60
S86-7	95.1	-	-90
S86-8	137.5	216	-78
Total	913.7 m		

Underground drill sites are plotted in plan and section on Figures 7a and 7b and surface holes are plotted on Figure 5. Drill logs are presented in Appendix I. Drill core is stored at the residence of L. Williams, in Hope, B.C.

Underground Drilling

Four holes were drilled from the main adit to intersect the Aufeas vein. Potentially mineable grades and widths were encountered in holes U85-2 and 5 as indicated in the following table:

<u>Drill Hole</u>	<u>Metres</u>		<u>Grade</u>		<u>Grade</u>
	<u>Actual</u>	<u>True</u>	<u>gm/tonne</u>	<u>oz/ton</u>	<u>(Calc. to 1 metre width)</u>
U85-1	0.11	0.11	25.60	0.747	0.082
U85-2	0.80	0.76	29.96	0.874	0.664
U85-3	0.99	0.76	2.98	0.087	0.066
U85-5	3.42	1.45	5.31	1.155	
including	0.58 m	0.24	40.79	1.19	0.286

Additional drilling is warranted to obtain as many intercepts as possible.

Drill Hole U85-4 was drilled to explore for possible nearby parallel vein structures, but none were encountered.

#### Surface Drilling

Several short holes (S86-2, 3, and 4) were drilled from surface to test the Bluff vein which is exposed in Wardle Creek 350 metres down from the adit in the Afeas vein. Two intercepts were obtained with grades of 16.6 grams per tonne (0.483 ounces per ton) over 1.2 metres and 0.62 grams per tonne (0.018 ounces per ton) over 0.61 metres. True widths are about 0.3 metres.

Drill hole S86-5 was drilled to test for other parallel vein structures. Except for scattered narrow shears containing minor amounts of pyrrhotite, none were encountered.

Three holes, S86-1, 6, 7 and 8 were drilled to test for mineralization in the Wardle Creek shear zone (Creek zone). Assay results for holes 1 and 6 revealed low gold and silver values and one intercept of 0.15 centimetres which graded 57.6 grams per tonne (1.68 ounces per ton). Because core recovery problems were encountered adjacent to the aforementioned drill intercept, the width of mineralization may be greater. Drill hole 8 may have been drilled on the north side of the shear and apparently missed the zone. Additional drilling with larger core, as well as routine drilling along strike, is warranted.

#### GEOCHEMICAL SURVEY

A limited program of soil geochemical sampling was carried out mainly on the lower, more accessible slopes on the MAC claims. Four flagged lines, 100 metres apart, were established and samples collected at intervals of 25 metres. Soil material observed and sampled consisted mainly of glacial till which was taken at depths of at least 20 centimetres, well below the "A" horizon. A total of 90 soil, 5 silt, and 8 rock samples were taken. Samples were shipped to Rossbacher

Laboratory Ltd. for gold and arsenic analyses by standard atomic absorption methods. Sample results are presented in Appendix II and are plotted on Figure 8. Of potential significance are a number of arsenic anomalies (20 to 488 parts per million arsenic) and two gold anomalies (60 to 210 parts per billion), were obtained on Line 6W. The significance of the results is difficult to determine without further fill-in sampling on adjacent lines. Additional sampling is warranted to the west on the MAC 4 and 6 claims.

*Donald G. Allen*

#### REFERENCES

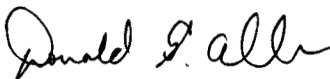
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CERTIFICATE

I, Donald G. Allen, certify that:

1. I am a Consulting Geological Engineer, with offices at A & M Exploration Ltd., Suite 614, 850 West Hastings Street, Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia with degrees in Geological Engineering (B.A.Sc., 1964; M.A.Sc., 1966).
3. I have been practising my profession since 1964.
4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
5. This report is based on fieldwork carried out personally and on information listed under References.
6. I hold no interest, nor do I expect to receive any, in the Auefas property or Silver Cloud Mines Ltd.
7. I consent to the use of this report in a Statement of Material Facts or in a Prospectus in connection with the raising of funds for the project covered by this report.

December 15, 1986  
Vancouver, B.C.

  
Donald G. Allen,  
P. Eng. (B. C.)

**APPENDIX I**

**Drill Logs**

LOCATION: Wardle Creek



HOLE NO  
S 86-1

AZIMUTH:

PROPERTY: ALCEAS

DIP: Vertical

LENGTH: 194' (59.1m)

ELEVATION:

CLAIM NO:

STARTED: Feb 3, 1986

CORE SIZE: A Ø

DATE LOGGED:

SECTION:

COMPLETED: Feb 6, 1986

DIP TESTS:

LOGGED BY: DGA

PURPOSE:

Recovery: 96%

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	F.A.		
from	to			from	to		Au g/ton	Ag g/ton	As g/ton
0	10	Overburden							
10	36	Medium grained hornblende biotite granodiorite weakly foliated @ 45°. Chlorite coated slip planes common. 15-17.5 mm hornblende							
36	55	Fault zone @ 20-30°. Broken up chloritized granodiorite with local fault gouge							
55	60.5	Chloritized hb-biotite granodiorite		61.0'	62.7'	1.7'	<0.001	0.03	
60.5	67	Fault zone @ 40°		83.4	85.65	0.25	0.04	0.73	
67	78	62-65.5 mm quartz veins, pyrite veins Dark grey weakly mylonitized and chloritized granodiorite. Weak finely disseminated pyrite. 76-78 more intensely sheared @ 50° with quartz and calcite veins							
78	94.6	Hornblende biotite granodiorite - chloritized - locally weakly mylonitized. 82-83 mm gte-pyroxenite-chalcopyrite vein @ 60° 80.5-81.5 mm pyroxenite-quartz vein @ 60° 91.5-91.9 irregular coarse pyrite. 94.4 1 cm pyroxenite-chalcopyrite vein @ 15°		90.2	91.9	0.7	0.001	0.16	
94.6	100.5	Perthite dark grey dike - grey fine grained dike with scattered grey feldspar phenocrysts - 0.5 mm diameter							
100.5	116	Mylonitized granodiorite							
116	134.5	Dark grey chloritized and weakly mylonitized granodiorite		116	120	4.0	0.001	0.001	
		118-119 sheared zone with 1-2 mm calcite		120	122.8	2.8	0.001	0.001	





LOCATION: Wardle Creek

HOLE NO  
S 86-1

AZIMUTH:

PROPERTY:

DIP:

LENGTH:

ELEVATION:

CLAIM NO:

STARTED: Feb 3, 1986

CORE SIZE:

DATE LOGGED:

SECTION:

COMPLETED: Feb 6, 1986

DIP TESTS:

LOGGED BY:

PURPOSE:

Recovery: 95%  
F.A. A.A.

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	A.A.		
from	to			from	to		A <sub>g</sub> g/tm	A <sub>g</sub> g/tm	A <sub>g</sub> g/tm
		staurolite @ 65°; Trace dissemin pyrite		123.8	125	2.2	0.001		0.001
		123 2 cm quartz vein @ 15°		125	127	2.0	0.01	0.06	0.005
		125-127 Shear zone @ 25-45°		127	132	5.0	0.008	0.11	0.003
		127 1 cm irregular coarse massive coarse-grained with pyrite and chloropyrite.		132	136	4.0	0.001		0.001
		136-144.5 Shear zone @ 30° with very fine gls vein		144.5	147	2.5	0.001		0.001
		gradational contact with:		147.5	152	4.5	0.025	0.02	0.009
147.5	152	light grey porphyritic granodiorite deb; bleached with minor dissemin pyrite.		152	166.5	14.5			
		Dark grey chloritoid granodiorite							
		152-158.2 weakly mylonitoid and silicified.							
166.5	177	Porphyritic granodiorite like, bleached and locally charred. Minor pyrite disseminated and in fractures.							
		163.6 1 cm gls-pyrite vein @ 80°							
		164.8 4 cm gls-pyrite vein @ 65°							
177	194	Granodiorite - gradational, and some porphyry as above and equigranular granodiorite higher in hole. Scattered slip planes and reverse shear zones @ 30-45°							
		194 End of hole.							



















LOCATION: End of SSE Encl. Drive of  
Aufeas Mine  
AZIMUTH: 310°



Pg 1 of 7

HOLE NO 46-85-01 (3)

PROPERTY: Mac Claims, Silver Cloud Mines  
Aufeas Mine Tab # 202  
CLAIM NO:

DIP: -45° LENGTH: 60.34 ELEVATION: ~400m

STARTED: Oct 17/85 CORE SIZE: BQ DATE LOGGED: Oct 18, 21 SECTION:

COMPLETED: Oct 24/85 DIP TESTS: N/A LOGGED BY: R.K.B.

PURPOSE: To Intercept West slope vein: North C.ault zone Recovery 96.2% (0-40.8)

FOOTAGE METRES from	FOOTAGE METRES to	DESCRIPTION	SAMPLE NO	FOOTAGE METRES from	FOOTAGE METRES to	LENGTH	Am g/ton						
0	6.40	MYLONITIZED Qtz DIO.											
	7.42	- 1. P <sub>g</sub> @ 0.25 - Fract 25° @ 0.37 welded fault at 0.40 @ 45° - Calcite/Qtz veinlets @ 0.77; 45° and 0.86	71874	2.53	2.73	0.20	0.002						
			71828	2.0	3.50	0.20	0.003						
0		- Calcite Qtz Flooding in interstitial spaces ! Fractures in core and around Amphibole blasts? Qtz Calcite Auger @ 1.25, Mylonite QU. @ 2.90 - Silicified zone Semivide @ 3.13 - Siliceous Calcite veinlets 40° @ 3.53, 4.00, 5.01 (Pg), 5.23	29	3.50	5.00	1.50	0.003						
		- Calcite, chl. minor Py vein @ 5.68 zone 3cm wide @ 35° - Fractured core @ 5.0° @ 6.20 - Many fractures filled at to core @ 6.2, calcite filled	30	5.00	6.00	1.00	0.003						
			31	6.00	6.27	0.27	0.003						
			32	6.27	6.57	0.20	0.003						
		EXTREMELY MYLONITIZED zone Silicified @ 6.00 to 6.50; 2 Qtz, calcite calcite veinlets @ 6.00 (ex), 6.55 pg @ 4.0° @ 0.3cm	71833	6.57	7.50	.93	0.003						
6.50	7.55	MODERATE MYLONITIZED Qtz DIO. - calcite vein 3mils @ 7.40											
7.55	12.12	Lined EXTREMELY MYLONITIZED Qtz DIO.	71822	7.50	7.72	.22	0.003						







P<sub>3</sub> 4 of 7

HOLE NO  
UG-85-01

(15)

LOCATION:			
AZIMUTH: 310°			PROPERTY:
DIP: -45°	LENGTH:	ELEVATION:	CLAIM NO:
STARTED:	CORE SIZE:	DATE LOGGED:	SECTION:
COMPLETED:	DIP TESTS:		LOGGED BY:
PURPOSE:			

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	An g/ton											
from	to			from	to													
23.20	24.30	Highly Mylonitized Zone Grading into EXT. Mylonitized zone @ 23.70 to 24.20																
24.20	27.43	EXTREMELY MYLONITIZED																
		GRAPHIC, TELESEISMIC FAULT ZONE (Solidified)	71875	24.50	25.77	1.27	0.002											
		Amphibole @ 24.23 @ 60°; 24.14 @ 65° Talcose Shear @ 55° 5cm thick zone @ 25.00 and at 25.23; 25.5 to 25.64 Solidified talcose shear Qtz Calcite vein @ 25.33, Flooding @ 25.43 Calcite in Fr. 25.33 to 27.43 Gouge at 26.27 @ 85° (1cm); 26.5 (4cm) - Qtz Calcite vein @ 26.27 @ 65° - Calcite in fr. sub parallel to core axis @ 26.41	76		27.21	1.44	<0.002											
27.43	27.14	EXTREMELY MYLONITIZED Qtz vein Qtz Calcite Flooding in fr. throughout																
		Calcite veins at 27.43; 28.03; 28.23 (60°) 28.77 (55°)																
	27.55	Chl. Solidified, calcite in FAULT zone @ 65°																
	27.25	Sheared at 27.25, talcose with calcite @ 25°																
25.63	28.42	Talcose Breken Shear zone																
	29.01	Low talcose with calcite shear																
29.43	29.93	Calcite - Qtz Flooding																
	30.92	Talcose Gouge zone @ 35°																

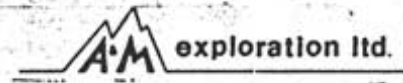
cl.k ?











LOCATION: End of Main Access / Expl.  
Drift of Anders Mt  
AZIMUTH: = 038°

Pa 1.7 HOLE NO UG-85-02 (17)  
PROPERTY: Mac Claims Ltd  
Silver Cloud Mines Ltd  
CLAIM NO:

DIP: = -50° LENGTH: 95.71 m ELEVATION: 400 m  
STARTED: Oct. 26<sup>th</sup>/85 CORE SIZE: BQ DATE LOGGED: Oct 27<sup>th</sup>/85 SECTION:  
COMPLETED: Nov. 6<sup>th</sup>/85 DIP TESTS: N/A LOGGED BY: R.K.B.

PURPOSE: Expose Down dip of East slope vein & fault in Wardle Creek Recovery 94.8%

FOOTAGE METRES from	DESCRIPTION	SAMPLE NO	FOOTAGE METRES from	LENGTH	AN #/m
0	BANDED LIGHT MYLONITIZED Qtz DIO & FRESH Qtz DIO				
1.05	Lineated Mylonite (FAULT welded?) 4cm wide @ 35°				
2.5	" " FAULT " @ 38°				
4.25	BANDED LIGHT & MODERATELY MYLONITIZED Qtz DIO	71820	5.04	6.04	0.20 .003
	DIOBASE: Noted some Qtz-calcite Fracturing	71821	6.04	7.50	1.46 .003
	FAULT zone 6cm wide				
5.25	Frag in Qtz vein 1cm wide: massive py/cpx @ 57°				
	Py in Qtz Blob ~ 4%				
8.5	Qtz-calcite along fractures	71834	8.50	9.07	0.57 .003
9.15	Qtz with minor calcite vein 1cm wide	35	9.07	9.27	0.20 .003
	Py 20% @ 70°; 1cm d.v. of 11m <sup>2</sup> with 10% Py; d.v. 1.5m wide @ 55° with ax-calcite Py (calcite) / Py / cpx in blobs along fault of vein	36	9.27	9.90	0.63 .003
		71837	9.90	10.10	0.20 .003
		71838	11.0	11.71	0.71 .003
	Py vein 5cm wide @ 20°	39	11.71	11.91	0.20 .003
13.65	Calcite in Qtz in fractures; 13.77 Calcite/Qtz vein along fracture @ 40°	71840	11.91	12.50	0.59 .003
13.80	FRAGMENTED PORPHYRY GLASSIC ZONE	71841	13.50	14.0	0.50 .003
14.5	MOD to EXT MYLONITIZED Qtz DIO - ax-calcite in fractures throughout (Qtz/calcite/cpx Alternation?)	71801	15.80	16.15	0.35 .003



LOCATION: Aulus Mine

AZIMUTH: 038°

DIP: -50°

LENGTH: 75.71

ELEVATION: 400 m

P. 2 of 7 HOLE NO. UG-85-02 (13)

PROPERTY: Mal. Claims / Silver Cloud Mine

STARTED: \_\_\_\_\_ CORE SIZE: BQ

DATE LOGGED: \_\_\_\_\_

SECTION: \_\_\_\_\_

COMPLETED: \_\_\_\_\_ DIP TESTS: \_\_\_\_\_

LOGGED BY: RKB

LOGGED BY: RKB

PURPOSE: \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE		LENGTH	F.A.		A.A.		Area
from	to			from	to		Am g/ton	g/ton	g/ton	g/ton	
16.85	<del>16.85</del>	EXT mylonitized BROKEN COPE, very chlorite talcose, some graphite	71801	15.80	16.15	0.35	.003			0.004	
			02	16.15	16.95	0.80	.874			0.802	
			03		17.16	0.21	<.003			0.004	
<del>16.85</del>	<del>16.85</del>	SULPHIDE ZONE / Qtz Vein: 75% Aspy / py / cpy	71813		17.20	0.34	.004				
16.11	16.46	16.15 to 16.46 with minor Qtz talcose granitic SHEAR at 16.22	71814		18.0	0.50	<.003			<0.003	
16.46	16.95	Qtz Vein with 25% Aspy / py / cpy 2 - SLUDGE SAMPLES TAKEN	(Sludge)	16.15	16.46				2.36		
<del>16.85</del>	<del>16.85</del>	TALCOUSE ZONE (FAULT)		16.45	17.07				0.66		
17.07	17.0	BANDED LIGHT; MOD. MYLONITIZED Qtz DIO									
	17.07	Aspy in SHEAR									
<del>17.07</del>	<del>17.07</del>	Disseminated py sulphide zone									
	17.20	Q.V. 1.5cm wide @ 48° with Cpy - Py in Fw + Hw only									
17.20	18.29	BROKEN COPE									
18.29	19.0										
19.0	25.91	FRESH to LIGHT MYLONITIZED Qtz DIO									
	17.20	FAULT with chl. 1cm wide @ 72° (welded) dip at 21.25, 21.11, 21.00, 21.60, 22.05, 22.45, 24.07 24.15, 24.21 (JOINTS - + Mylonite?)									
25.41	27.67	LIGHT to MODERATELY MYLONITIZED Qtz DIO									
25.41	26.00	BROKEN COPE; DISSEMINATED min. Py at 26.70	71891	26.36	26.98	0.62	<0.002				
	7.21	27.20; 27.40 to 27.50	92	26.70	27.18	0.48	<0.002				
27.20	27.20	Q.V. 1.5cm wide @ 48° with Cpy - Py in Fw + Hw only	93	27.18	27.67	0.49	<0.002				

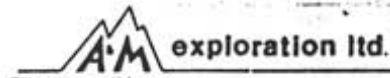












LOCATION: Augas Mine; Main Access  
Drift; End of Expl. Drive  
AZIMUTH:  $\theta$

Pg 1 of 5 HOLE NO  
UG-85-03  
PROPERTY: Silver Cloud Mine  
Job 282  
CLAIM NO: Mex Claims

DIP:  $-90^\circ$  LENGTH:  $86.2^m$  ELEVATION: 400m  
STARTED: Nov 7<sup>th</sup>/85 CORE SIZE: BQ DATE LOGGED: Nov 9<sup>th</sup> & Nov 22<sup>nd</sup>/85  
COMPLETED: Nov 22<sup>nd</sup>/85 DIP TESTS: LOGGED BY: RKB

PURPOSE: Follow up East Stage Vein  
+ Intersert lower veins at Bluff elevation  
Recovery: 85.6%

metre

FOOTAGE		DESCRIPTION	SAMPLE NO	FOOTAGE METRES		LENGTH m	Au g/ton				
from	to			from	to						
0	5.01	Light Mg. Qtz Dio									
5.01	5.05	FAULT 3m wide washed, 1.5m coal @ $30^\circ$									
5.05	14.05	Silicified chl, Calcite ALT mod myl. Qtz Dio									
8.33	9.33	Calcite/Qtz Veinlet @ $17^\circ$									
9.33	10.27	Fault washed; silicified	71804	10.27	10.65	0.38	.003				
10.27	12.25	Q.V. 1cm mineralized on EW only @ $75^\circ$ , 32% Py	5	12.25	12.85	0.60	.003				
12.25	12.75	3m wide Q.V. 3% Py; @ $85^\circ$	6	12.75	12.80	0.05	.003				
12.75	12.82	2cm Q.V. Py, Cap, Py @ $85^\circ$	7	12.82	12.88	0.06	.003				
12.82	12.85	Pyrophyllite	8	12.85	13.10	0.25	.003				
12.85	14.05	Diss. Py mineralization intermittent 2% loss	9	13.65	13.65	0.00	.003				
14.05	14.35	MOD. MYL. to EXTREMELY MYL. Qtz Dio	71842	13.65	13.65	0.00	.003				
		Veinlets i Diss. <del>Pyrophyllite</del>	71810	14.38	14.38	0.00	.010				
			11	14.38	14.38	0.00	.35%				
		Q.V. constant chlorite, massive Py; cap Euhedral Aspy @ $40^\circ$ to $60^\circ$	71812	14.62	14.62	0.00	.010				
		chl Calcite ALT. in EXT. MYL. Qtz Dio									
		Diss. Py 4%	71853	15.2	16.2	1.00	.003				
14.85	21.84	mod. MYL. w/ bands of EXT MYL Qtz Dio (Broken core throughout)	54	17.1	18.1	1.00	.003				
	15.10	Q.V. with calcite + 1% Py @ $70^\circ$ 2.5cm Cap. Py 10% total; 17% Py in Calcite/Qtz Dio 3m @ $40^\circ$ 3.5% Py; 2m Q.V. @ $85^\circ$ Py	55	18.70	19.2	0.50	.006				
			71856	17.2	20.5	3.30	.003				













LOCATION: Au Fens Mine; Enlat Access/  
Exploration Drift

AZIMUTH: 150°

Pg 1 of 3 HOLE NO  
UG-85-04

PROPERTY: Max Claims of Silver Cloud  
Mines Ltd.

DIP: +35° LENGTH: 100.89 meters ELEVATION: = 402 meters CLAIM NO:

STARTED: Nov 18<sup>th</sup>/85 CORE SIZE: BQ DATE LOGGED: Dec 7<sup>th</sup>/85 SECTION:

COMPLETED: Nov 28<sup>th</sup>/85 DIP TESTS: LOGGED BY: R.K.B.

PURPOSE: Explore possible veins above present working i.e. working above portal  
; Examine possible downward vertical movement of vein Recovery: 99.2%

FOOTAGE METRES from	to	DESCRIPTION	SAMPLE NO	FOOTAGE METRES from	to	LENGTH
0	22 <sup>11</sup>	FRESH Qtz Diacide				
1.93	2 <sup>22</sup>	Porphyry Blastite, Feldspar; Qtz; Foliated				
	1 <sup>57</sup>	Joints welded chl silicified 1cm wide @ 30°				
		and at 2 <sup>22</sup> @ 28°				
2.74	3 <sup>25</sup>	From ground near mafic, chl slightly alt.				
		Joint welded with chl; silicified @ 30° also				
		at 5 <sup>22</sup> @ 32°				
		Joints welded chl silicified at 6 <sup>13</sup> , 6 <sup>36</sup> , 6 <sup>47</sup>				
		chl Joint sub parallel 7 <sup>5</sup> to 8 <sup>12</sup> ; 12 <sup>6</sup> @ 18°;				
		13 <sup>10</sup> @ 18°				
15 <sup>20</sup>	16 <sup>20</sup>	Foliated; at 16 <sup>20</sup> Feldspar; Qtz Porphyry blastite				
		w/ chl silicified Joint				
17 <sup>20</sup>	19 <sup>25</sup>	Foliated chl with Feldspar, Qtz Porphyry Blastite				
		@ 18°				
20 <sup>20</sup>	20 <sup>25</sup>	chl Joint silicified sub parallel				
22 <sup>11</sup>	23 <sup>47</sup>	Qtz Dia. 1. Bands of cherty altered Qtz Dia				
23 <sup>47</sup>	37 <sup>45</sup>	mafic mafic / From ground alt. Dia				
		chl welded / silicified Joints at 23 <sup>50</sup> @ 15°; 23 <sup>24</sup>				
		@ 15°; 25 <sup>27</sup> @ 15°; 24 <sup>43</sup> @ 58°; 28 <sup>55</sup> w/				
		Feldspar; Qtz <sup>27</sup> Joint @ 10°; 31 <sup>44</sup> has				
		Feldspar; Qtz Flattening @ 48°				
	33-65	1cm wide Qtz Feldspar Diagen, Embedded				
		intergrowth of Feldspar Qtz @ 85°				
		chl welded Joints at 35 <sup>16</sup> , 35 <sup>30</sup> , 36 <sup>6</sup> ,				
		37 <sup>27</sup> 2cm wide; 37 <sup>34</sup> 4cm wide 1m thick				
		18 <sup>27</sup> sub parallel 41 <sup>64</sup> @ 25°; 42 <sup>31</sup> @ 15°				
		sub parallel with silicified Qtz @ 42° 15				











**APPENDIX II**

**Analytical Results**

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

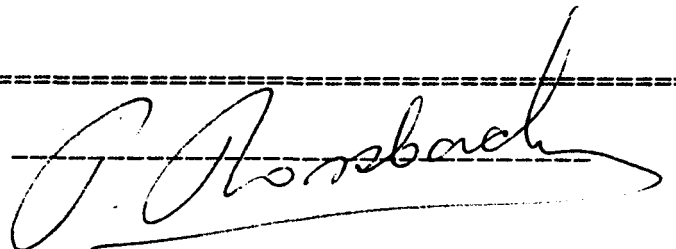
CLIENT : A&M EXPLORATION LTD.  
614-850 W. HASTINGS STREET  
VANCOUVER B.C.

CERTIFICATE#: 86083  
INVOICE#: 6314  
DATE ENTERED: 86-04-11  
FILE NAME: A&MB6083  
PAGE # : 1

PROJECT: 282  
TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Ag	PPB Au	PPM As
A	AUFEAS	2.0	10	28

CERTIFIED BY :



I JSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

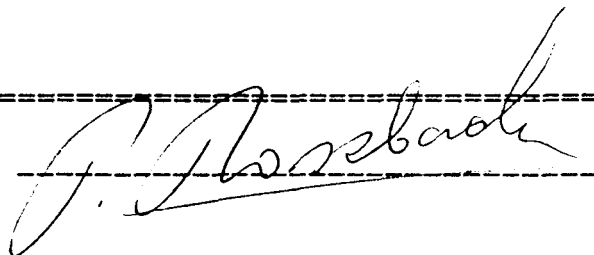
TO : A&M EXPLORATION LTD.  
614-850 W. HASTINGS STREET  
VANCOUVER B.C.

CERTIFICATE#: 86092  
INVOICE#: 6319  
DATE ENTERED: 86-04-11  
FILE NAME: A&M86092  
PAGE # : 1

PROJECT: 282  
TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPB Au	PPM As
A	282 AT38	10	40
A	39	10	12
A	282 AT40	10	10

CERTIFIED BY :



**JSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : A&M EXPLORATION LTD.  
614-850 W. HASTINGS STREET  
VANCOUVER B.C.  
PROJECT: AuFEAS 343.  
TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 86674  
INVOICE#: 7212  
DATE ENTERED: 86-11-21  
FILE NAME: A&M86674  
PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au
A	AuFEAS	5
A	FUR-1	50
A	FUR-2	90
A	FUR-3	5

CERTIFIED BY : \_\_\_\_\_

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

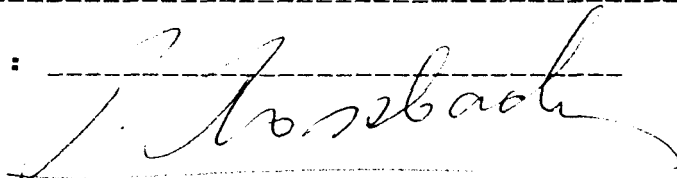
TO : A&M EXPLORATION LTD.  
614-850 W. HASTINGS STREET  
VANCOUVER B.C.

CERTIFICATE#: 86103  
INVOICE#: 6333  
DATE ENTERED: 86-04-24  
FILE NAME: A&MB6103  
PAGE # : 1

PROJECT: 282  
TYPE OF ANALYSIS: ASSAY

PRE FIX	SAMPLE NAME	oz/t Au
A	AS86- <del>A</del> 116'-120'	0.001
A	120'-122.8'	0.001
A	122.8'-125'	0.001
A	125'-127'	0.005
A	127'-129'	0.009
A	129'-132'	0.001
A	132'-136'	0.001
A	143.8'-144.7'	0.001
A	153.0'-153.8'	0.001
A	AS86- <del>A</del> 163.5'-165'	0.008

CERTIFIED BY :



**POSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS STREET  
 VANCOUVER B.C.  
 PROJECT: 282  
 TYPE OF ANALYSIS: ASSAY

CERTIFICATE#: 86103  
 INVOICE#: 6333  
 DATE ENTERED: 86-04-24  
 FILE NAME: A&MB6103  
 PAGE # : 1

PRE FIX	SAMPLE NAME	oz/t Au
A	ASB6-4 116'-120'	0.001
A	120'-122.8'	0.001
A	122.8'-125'	0.001
A	125'-127'	0.005
A	127'-129'	0.009
A	129'-132'	0.001
A	132'-136'	0.001
A	143.8'-144.7'	0.001
A	153.0'-153.8'	0.001
A	ASB6-4 163.5'-165'	0.008

CERTIFIED BY :

*J. Possbacher*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: PULP PT## PD## RH## BY FA-MS.

DATE RECEIVED: JAN 9 1987 DATE REPORT MAILED: *Jan 19/87* ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

A & M EXPLORATION PROJECT - 343 FILE # 87-0042

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	F	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	PT##	PD##	RH##
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPB	PPB	PPB	
L6W 0+25S	1	39	6	58	.2	35	15	279	3.88	9	5	ND	1	13	1	3	2	82	.20	.026	4	51	.63	98	.23	2	2.54	.02	.05	1	2	2	2
L6W 0+50S	1	23	2	46	.1	25	10	254	2.90	6	5	ND	1	24	1	2	2	64	.27	.027	4	38	.37	170	.16	2	1.74	.01	.04	1	2	2	2
L6W 0+75S	2	14	5	47	.2	38	12	151	3.55	2	5	ND	1	9	1	3	5	67	.15	.027	5	42	.34	88	.13	2	2.08	.01	.03	1	2	2	2
L6W 1+00S	1	30	2	44	.1	36	13	193	3.51	11	5	ND	1	10	1	2	2	85	.18	.034	3	47	.82	47	.19	2	2.10	.02	.03	1	2	2	2
L6W 1+25S	1	58	11	78	.4	61	32	876	5.31	105	5	ND	1	35	1	4	2	104	.77	.103	7	71	2.14	178	.17	6	2.88	.01	.26	1	2	6	2
L6W 1+50S	1	17	8	66	.1	39	12	231	3.48	4	5	ND	2	10	1	2	2	62	.15	.055	7	39	.37	92	.15	2	2.24	.01	.04	1	2	2	2
L6W 1+75S	1	17	7	38	.1	22	8	96	3.46	4	5	ND	1	11	1	2	2	79	.18	.022	5	41	.26	71	.23	2	1.77	.01	.02	1	2	3	2
L6W 2+00S	1	40	4	98	.1	63	22	301	5.04	33	5	ND	1	27	1	42	2	122	.42	.047	2	93	1.86	151	.52	3	3.94	.03	.20	1	2	4	2
L6W 2+25S	1	44	9	114	.1	60	22	585	4.92	48	5	ND	1	40	1	43	2	98	.57	.055	4	86	1.80	235	.44	4	3.98	.02	.32	1	2	6	2
L6W 2+50S	2	36	50	138	.1	47	19	633	4.46	25	5	ND	1	23	1	2	2	83	.38	.082	4	68	1.33	252	.35	3	2.83	.02	.20	1	2	3	2
L6W 2+75S	2	30	10	112	.1	47	18	404	4.25	12	5	2	1	18	1	2	2	86	.41	.074	2	63	1.44	193	.39	2	2.70	.02	.16	1	2	2	2
L6W 3+00S	2	33	2	112	.1	51	19	298	4.45	35	5	ND	1	14	1	2	2	95	.29	.064	3	64	1.29	164	.35	2	2.93	.02	.12	1	2	2	2
L6W 3+25S	2	50	34	246	.1	52	22	544	4.58	520	5	ND	1	19	1	2	2	86	.30	.113	3	70	1.58	218	.35	2	2.95	.02	.27	1	2	2	2
L6W 3+50S	2	30	6	120	.1	42	15	445	3.58	10	5	ND	1	13	1	2	2	64	.29	.141	3	56	1.06	183	.31	2	2.12	.01	.12	1	2	2	2
L6W 3+75S	2	18	7	110	.2	33	12	315	3.23	13	5	ND	1	13	1	2	5	54	.23	.209	3	51	.80	184	.28	3	1.82	.01	.08	1	2	2	2
L6W 4+00S	3	23	9	83	.1	40	13	237	3.57	9	5	ND	1	12	1	2	3	69	.18	.056	4	49	.62	109	.18	2	2.05	.01	.05	1	2	2	2
71901	12	38189	20	1335	94.6	13	334	181	26.94	99999	5	55	2	9	27	167	113	6	.46	.038	2	41	.13	13	.01	2	.14	.01	.04	1	2	2	3
71902	4	2618	15	194	21.6	25	193	149	19.14	99999	5	13	1	17	2	878	23	13	.45	.007	2	137	.13	13	.01	4	.36	.02	.07	1	2	2	2
71903	1	180	2	72	.3	43	18	590	4.37	513	5	ND	3	87	1	23	2	85	4.31	.077	4	109	2.15	63	.01	2	2.86	.10	.20	1	2	2	2
71905	2	4968	4	283	17.3	52	26	676	5.64	381	10	2	3	68	4	55	3	99	3.04	.082	4	142	2.61	33	.01	4	3.02	.05	.12	1	2	2	2
71802	5	7152	18	335	37.5	41	213	254	20.52	99999	5	33	3	21	4	184	36	8	2.37	.007	2	52	.09	12	.01	3	.13	.01	.06	1	2	3	2
71810	2	375	16	75	.8	57	23	607	4.61	1253	7	ND	3	71	1	17	2	92	3.80	.086	4	123	1.96	73	.05	4	2.50	.12	.21	1	2	2	2
71811	3	2774	12	113	19.9	16	142	368	14.37	99999	5	10	1	35	1	455	16	6	1.90	.008	2	72	.30	23	.01	2	.08	.01	.06	1	2	2	2
71823	5	6693	15	308	46.0	14	151	229	17.27	99999	5	23	1	32	4	221	28	9	1.97	.010	2	75	.17	16	.01	2	.28	.01	.09	1	2	2	2
71844	2	13011	32	634	36.7	42	61	326	16.71	1205	5	ND	2	43	7	24	20	42	1.59	.033	2	86	1.00	24	.01	2	1.43	.05	.06	1	2	2	2
6T-3	4	3956	23	228	13.8	29	54	371	16.15	99999	5	7	3	84	3	285	14	29	2.73	.037	2	27	.88	16	.01	2	1.22	.01	.14	1	2	3	2
6T-7	3	2845	20	98	32.2	34	141	327	18.98	99999	5	20	2	66	1	152	23	18	2.16	.003	2	446	.09	16	.01	2	.12	.01	.05	1	3	4	2
6T-10	5	5346	15	183	34.1	10	112	223	22.62	99999	5	31	1	19	1	136	30	15	.81	.011	2	35	.43	11	.01	3	.34	.01	.05	1	6	2	2
86-2 36-38	4	20	9	29	20.1	8	4	471	.79	281	9	182	4	32	1	2	14	12	10.46	.020	6	73	.21	35	.01	4	.44	.01	.14	1	2	4	2
86-2 38-40	3	234	6	45	3.3	21	11	242	.90	305	5	17	1	24	1	4	8	11	4.61	.039	4	66	.11	41	.01	3	.55	.01	.16	1	2	2	2
86-6 95.0-95.5	2	2554	86	106	7.6	78	452	259	9.12	3041	5	29	3	68	1	38	61	35	4.93	.030	2	85	.71	37	.02	7	1.33	.11	.15	1	2	5	2
UPPER	1	22	11	67	.1	44	16	722	4.55	57	5	ND	1	111	1	3	2	106	1.79	.079	3	142	1.68	38	.16	4	3.54	.42	.68	1	2	3	2
LOWER	3	52	49	242	.1	46	17	478	3.50	133	5	ND	1	34	1	16	4	40	2.04	.079	8	58	.35	36	.01	5	.62	.02	.13	1	3	2	2
STD C/FA-SX	20	57	40	134	6.6	67	29	965	3.96	40	16	8	27	42	17	17	21	59	.47	.109	35	56	.88	156	.08	39	1.71	.06	.13	12	98	100	96

-- Assay requires for correct result *for Cu > 10,000 ppm, Ag > 34 ppm, Au > 10,000 ppm*





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Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8612811-001-A  
INVOICE # : I8612811  
DATE : 27-MAY-86  
P.O. # : NONE  
AUFEAS

\*\*NOTE: ALL SAMPLES HAVE PREFIX A86-6

393

Sample description	Prep code	Ag FA oz/T	Au FA oz/T				
<del>095.0-095.5</del>	214	0.32	1.684	--	--	--	--
<del>107-104.5</del> 097.5-098.5	214	0.39	0.042	--	--	--	--
098.3-101.3	214	0.02	<0.002	--	--	--	--
101.3-104.0	214	0.01	<0.002	--	--	--	--
131.0-133.0	214	0.01	<0.002	--	--	--	--
175.0-178.0	214	0.05	<0.002	--	--	--	--
178.0-181.0	214	0.01	<0.002	--	--	--	--

*Annie Christie*

Registered Assayer, Province of British Columbia



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TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

343

CERT. # : A8610006-001-1  
INVOICE # : I8610006  
DATE : 14-JAN-86  
P.O. # : NONE  
SILVER CLOUD

Sample description	Prep code	Au FA oz/T					
71894 E	214	<0.002	--	--	--	--	--
71895 E	214	0.006	--	--	--	--	--
71896 E	214	<0.002	--	--	--	--	--
71897 E	214	0.004	--	--	--	--	--
71898 E	214	<0.002	--	--	--	--	--
71899 E	214	0.006	--	--	--	--	--
71900 E	214	<0.002	--	--	--	--	--
71901 E	214	2.274	--	--	--	--	--
71902 E	214	0.368	--	--	--	--	--
71903 E	214	0.004	--	--	--	--	--
71904 E	214	<0.002	--	--	--	--	--
71905 E	214	0.058	--	--	--	--	--
71906 E	214	<0.002	--	--	--	--	--

*W. Santamaria*

VOI rev. 4/85

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Registered Assayer, Province of British Columbia



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TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8612444-001-A  
INVOICE # : I8612444  
DATE : 9-MAY-86  
P.O. # : NONE  
282

Sample description	Prep code	Aq FA oz/T	Au FA oz/T				
AS-86-4 125-127	214	0.06	0.010	--	--	--	--
AS-86-4 127-129	214	0.11	0.008	--	--	--	--
AS-86-4163.5-165	214	0.02	0.025	--	--	--	--

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CERTIFICATE OF ASSAY

TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8611889-001-A  
INVOICE # : I8611889 (6370)  
DATE : 18-APR-86  
P.O. # : NONE

DUPLICATE

PROJECT 282

Sample description	Prep code	Ag FA oz/T	Au FA oz/T				
AS 86-5 6.0-7.0	214	<0.01	0.012	--	--	--	--
AS86-5 114-114.5	214	0.01	0.002	--	--	--	--
319.5-320.5	214	0.01	<0.002	--	--	--	--



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## CERTIFICATE OF ASSAY

TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8611382-001-A  
INVOICE # : I8611382  
DATE : 26-MAR-86  
P.O. # : NONE

282

Sample description	Prep code	Ag FA oz/T	Au FA oz/T				
AS86-1,61.0-62.7	214	0.05	<0.002	--	--	--	--
AS86-1,83.4-83.6	214	0.73	0.040	--	--	--	--
AS86-1,90.2-91.0	214	0.16	0.002	--	--	--	--
AS86-2,34-36	214	0.01	0.024	--	--	--	--
AS86-2,36-38	214	0.09	0.534	--	--	--	--
AS86-2,38-40	214	0.07	0.432	--	--	--	--
AS86-2,40-43.5	214	0.02	<0.002	--	--	--	--
AS86-4,30.5-32.5	214	0.16	0.002	--	--	--	--
AS86-4,32.7-34.7	214	0.03	0.002	--	--	--	--
AS86-4,34.7-37.2	214	0.05	0.008	--	--	--	--
AS86-4,37.2-39.2	214	0.03	0.018	--	--	--	--
AS86-4,39.2-41.2	214	0.04	0.006	--	--	--	--
AS86-4,41.2-43.2	214	0.03	0.002	--	--	--	--
NO NUMBER	214	0.16	0.004	--	--	--	--
86-1 93.9-94.5							

*W. St. Amantini*

Registered Assayer, Province of British Columbia



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## CERTIFICATE OF ASSAY

TO : ROSSBACHER LABORATORY LIMITED

2225 SOUTH SPRINGER AVENUE  
BURNABY, B.C.  
V5B 3N1

CERT. # : A8613537-001-A  
INVOICE # : I8613537  
DATE : 16-JUN-86  
P.C. # : NGNE  
282

ATTN: PETER ROSSBACHER

Sample description	Prep code	Ag FA oz/T	Au FA oz/T				
S86-5 25.6-26.2	214	0.04	<0.002	--	--	--	--
S86-7 124-126.5	214	0.01	<0.002	--	--	--	--
S86-7 126.5-130	214	0.01	<0.002	--	--	--	--
S86-7 130-133	214	0.01	<0.002	--	--	--	--
S86-7 133-136	214	0.01	<0.002	--	--	--	--
S86-7 136-139	214	0.03	<0.002	--	--	--	--
S86-7 139-142	214	0.05	<0.002	--	--	--	--
S86-7 143-144	214	0.09	<0.002	--	--	--	--
S86-7 153-154	214	0.02	0.018	--	--	--	--
S86-7 177.5-178.5	214	0.01	<0.002	--	--	--	--
S86-7 198.4-202	214	0.02	<0.002	--	--	--	--
S86-7 215-217	214	0.01	<0.002	--	--	--	--
S86-7 217-219	214	0.01	0.016	--	--	--	--

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**CERTIFICATE OF ANALYSIS**

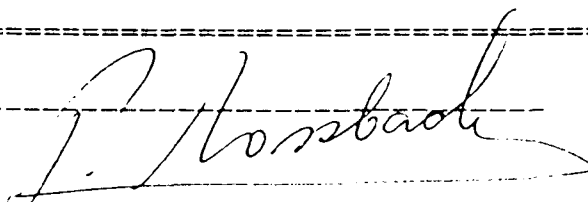
TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS STREET  
 VANCOUVER B.C.

CERTIFICATE#: 85408  
 INVOICE#: 6015  
 DATE ENTERED: OCT. 10, 1985  
 FILE NAME: A&M85408  
 PAGE # : 1

PROJECT: 282  
 TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPB Au	PPM As
S	L5W 0+25N	10	12
S	0+38N	10	6
S	0+50N	10	8
S	0+75N	10	4
S	1+00N	10	2
S	1+25N	10	8
S	1+50N	10	8
S	1+75N	10	14
S	2+00N	10	8
S	2+25N	10	2
S	2+50N	10	2
S	2+75N	10	2
S	3+00N	10	2
S	3+25N	10	2
S	3+50N	10	4
S	3+65N	10	6
S	L5W 3+75N	10	2

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 BURNABY, B.C. V5B 3N1  
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**CERTIFICATE OF ANALYSIS**

TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS STREET  
 VANCOUVER B.C.  
 PROJECT: 282  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85388  
 INVOICE#: 5604  
 DATE ENTERED: OCT. 1, 1985  
 FILE NAME: A&M85388  
 PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au	PPM As
S	L6W 0+25S	10	14
S	0+50S	10	2
S	0+75S	10	2
S	1+00S	10	4
S	1+25S	10	106
S	1+50S	10	2
S	1+75S	10	2
S	2+00S	10	38
S	2+25S	10	54
S	2+50S	210	28
S	2+75S	10	20
S	3+00S	10	40
S	3+25S	60	488
S	3+50S	10	12
S	3+75S	10	10
S	4+00S	10	8
S	L5W 0+33S	20	226
S	0+55S	10	8
S	0+75S	10	10
S	1+00S	10	4
S	1+25S	70	84
S	1+50S	10	12
S	1+75S	10	8
S	2+00S	10	8
S	2+25S	10	2
S	2+50S	10	6
S	2+75S	10	10
S	3+00S	10	10
S	3+25S	10	4
A	282 AT 230	20	58
A	231	10	54
L	282 AL 232	10	22

CERTIFIED BY :

*G. Rossbach*





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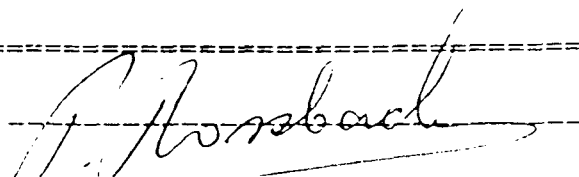
**CERTIFICATE OF ANALYSIS**

TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS STREET  
 VANCOUVER B.C.  
 PROJECT: 282  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85439.B  
 INVOICE#: 6051  
 DATE ENTERED: 85-10-24  
 FILE NAME: A&M85439.B  
 PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Ag	PPB Au	PPM As
L	L5+70W 4+50N	0.2	10	8
S	L6W 0+25N	0.2	10	72
S	0+50N	0.2	10	12
S	0+75N	0.2	10	10
S	1+00N	0.2	10	12
S	1+25N	0.2	10	8
S	1+50N	0.2	10	10
S	1+75N	0.2	10	12
S	2+50N	0.2	10	14
S	L6W 2+75N	0.2	10	10
S	3+25N	0.2	10	14
S	L6W 3+50N	0.2	10	10
S	L7W 2+00S	0.2	10	14
S	2+25S	0.2	10	16
S	2+50S	0.2	10	12
S	2+75S	0.2	10	6
S	3+00S	0.2	10	10
S	3+25S	0.2	10	16
S	3+50S	0.2	10	16
S	3+75S	0.2	10	14
S	L7W 4+00S	0.2	10	16
S	4+25S	0.2	10	44

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**CERTIFICATE OF ANALYSIS**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS STREET  
 VANCOUVER B.C.

PROJECT: 282 SILVER CLOUD  
 TYPE OF ANALYSIS: GEOCHEMICAL

CERTIFICATE#: 85445  
 INVOICE#: 6060  
 DATE ENTERED: OCT. 30. 1985  
 FILE NAME: A&M85445  
 PAGE # : 1

PRE FIX	SAMPLE NAME	PPM Ag	PPB Au	PPM As
S	282 200S 6+25W	0.2	10	38
S	282 TL200 6+50W	0.2	10	16
S	6+75W	0.2	10	10
S	7+00W	0.2	10	10
S	7+25W	0.2	10	8
S	7+50W	0.2	10	16
S	7+75W	0.2	10	14
S	8+00W	0.2	10	12
S	8+25W	0.2	10	16
S	282 LBW 2+00S	0.2	10	14
S	2+25S	0.2	10	10
S	2+50S	0.2	10	12
S	2+75S	0.2	10	8
S	3+00S	0.2	10	6
S	3+25S	0.2	10	6
S	3+50S	0.2	10	4
S	3+75S	0.2	10	4
S	4+00S	0.2	10	4
S	282 S-20-10-01	0.2	10	72
S	-02	0.2	10	48
S	-03	0.2	10	96
T	R-20-10-01	3.8	13000	>40000
T	R-21-10-01	5.4	12800	>40000

CERTIFIED BY :

*J. Rossbach*

**OSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

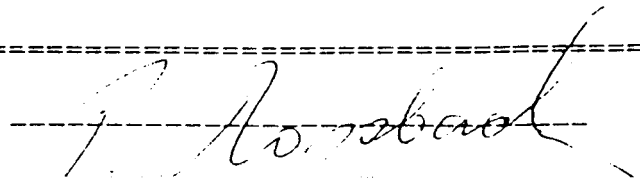
TO : A&M EXPLORATION LTD.  
614-850 W. HASTINGS STREET  
VANCOUVER B.C.

CERTIFICATE#: 85439.C  
INVOICE#: 6052  
DATE ENTERED: 85-10-24  
FILE NAME: A&M85439.C  
PAGE # : 1 1

PROJECT: 286  
TYPE OF ANALYSIS: GEOCHEMICAL

PRE FIX	SAMPLE NAME	PPM Ag	PPB Au	PPM As
S	L11+00W	0.4	10	344
S	L11+50W	0.6	10	102
A	100-29-09	0.2	10	26
A	101-29-09	0.2	10	18
A	102-29-09	0.2	10	24
A	103-29-09	0.2	10	24

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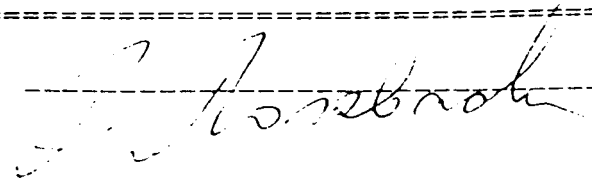
TO : A&M EXPLORATION LTD.  
 614-850 W. HASTINGS ST.  
 VANCOUVER, B.C.

CERTIFICATE#: 85192  
 INVOICE#: 5330  
 DATE ENTERED: JULY 18, 1985  
 FILE NAME: A&M85192  
 PAGE # : 1

PROJECT: 282  
 TYPE OF ANALYSIS: ASSAY

PRE FIX	SAMPLE NAME		oz/t Au
A	282 GT	1	0.019
A		2	0.242
A		3	0.212
A		4	0.030
A		5	0.118
A		6	0.180
A		7	0.640
A		8	0.028
A		9	0.540
A		10	0.900
A	282 GT	11	0.360
A		12	0.032
		13	0.915
		14	0.086
H		15	0.052
A		16	0.860
A		17	0.096
A		18	0.036
A	282 GT	19	0.098

CERTIFIED BY :



**APPENDIX III**

**SAMPLE DESCRIPTION AND ASSAY RESULTS**

SAMPLE DESCRIPTION AND ASSAY RESULTS

<u>Sample No.</u>	<u>Description</u>	<u>Gold oz/ton</u>	
		<u>A.A.</u>	<u>FIRE</u>
282 GT 1	Stope-fill material.	0.019	0.024
2	East end of stope - 1.75m width.	0.242	0.238
3	30 cm wide fault zone including 8 cm of sulphide.	0.212	0.214
4	Fault zone over 1.8 m, not including 1.2 to 1.8 cm of sulphide-bearing vein material on footwall.	0.030	0.048
5	15 cm sulphide-rich vein material on hanging wall of above fault.	0.118	0.132
6	Fault gouge over 1 m, including 30 cm of sulphide-bearing quartz.	0.180	0.186
7	10 cm wide quartz-pyrite vein.	0.640	0.630
8	1.8 m fault zone on drift back. Includes 13 cm massive pyrite on hanging wall and 7 cm on footwall.	0.028	0.052
9	10 cm wide vein massive arsenopyrite at intersection with crosscut.	0.054	0.474
10	13 cm wide massive arsenopyrite vein.	0.900	1.068
11	15 cm sulphide rich vein material from footwall of fault zone.	0.360	0.398
12	8 cm vein material from footwall	0.032	0.044
13	5 cm footwall vein plus 5-12 cm quartz-chalcopyrite and calcite vein and gouge material.	0.915	1.082
14	13 cm vein material plus 20 to 30 cm of footwall which contains disseminated arsenopyrite.	0.086	0.104
15	10 cm fault gouge including 10 to 13 cm of vein material.	0.052	0.064
16	10 cm quartz vein material.	0.860	1.050
17	Quartz-arsenopyrite vein 15 cm wide.	0.096	0.090
18	Muck from stope.	0.036	0.042
19	Fault zone 36 cm wide.	0.098	0.112
211 - 94'	Quartz vein.	nil	
211 - 101'	Quartz-arsenopyrite vein.	0.021	

**APPENDIX IV**  
**AFFIDAVIT OF EXPENSES**



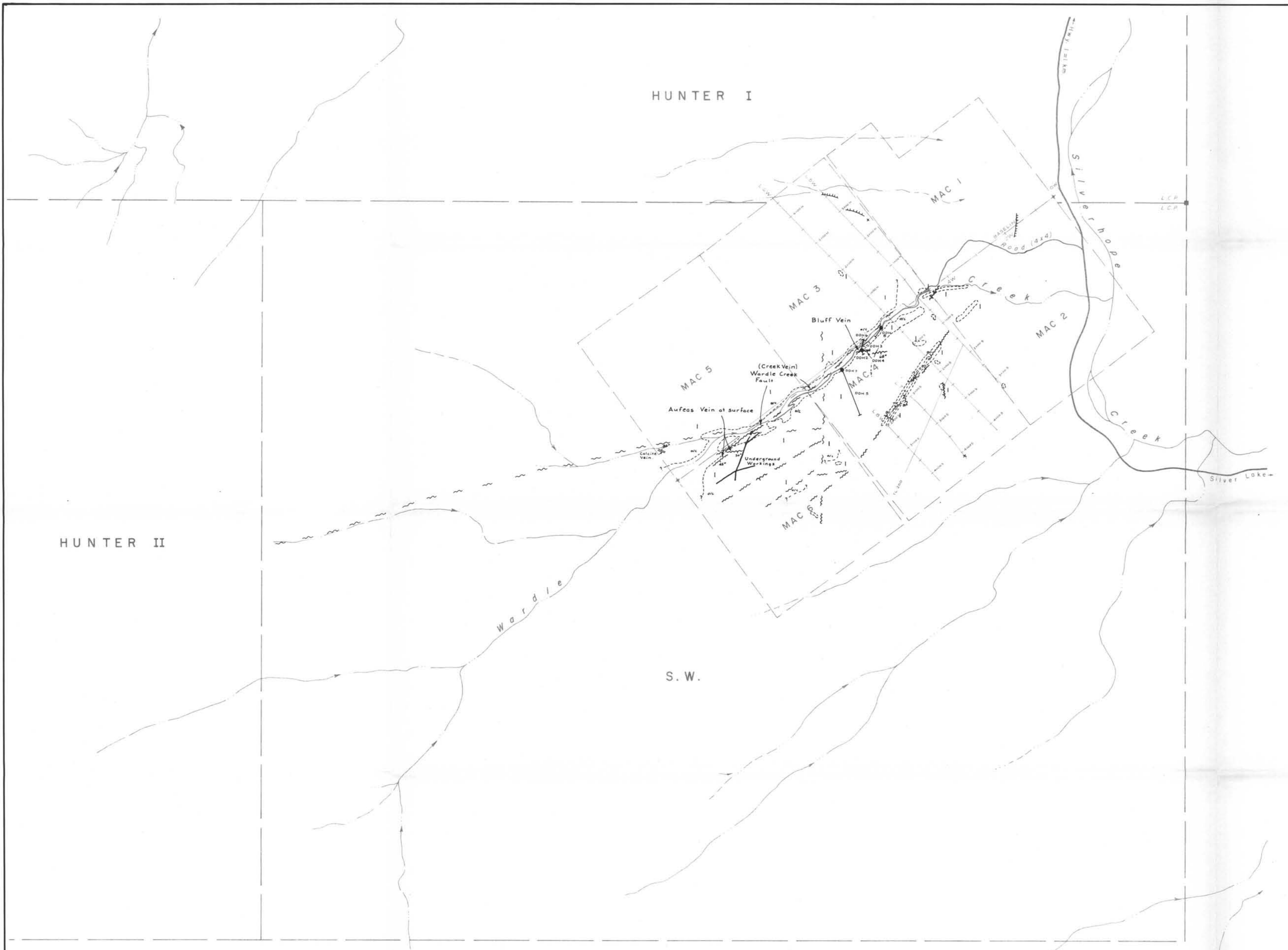
AFFIDAVIT OF EXPENSES

This will certify that diamond drilling was carried out on the Mac 1-6 claims, Wardle Creek Area, New Westminster Mining Division, during the period October 11, 1985 to February 28, 1986 to the value of the following:

Diamond Drilling            622.5 metres @ \$62.86/metre (all incl.)        \$39,130.35



Donald G. Allen,  
P. Eng. (B.C.)



**LEGEND**

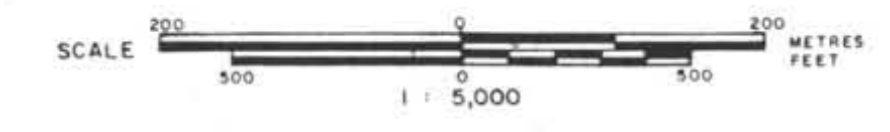
- Quartz diorite.
- Outcrop, outcrop boundary.
- Float.
- Fault; observed, inferred.
- DDH Collar.
- Vein, strike and dip.
- Bluff.
- Survey grid line, line and station numbers.
- Claim post; two post claim, legal corner post.
- Claim boundary; two post, modified grid.
- Creek.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,872**

SILVER CLOUD MINES LTD.  
**AUFEAS GOLD PROSPECT**  
NEW WESTMINSTER MINING DIVISION — BRITISH COLUMBIA

**GEOLOGICAL MAP**



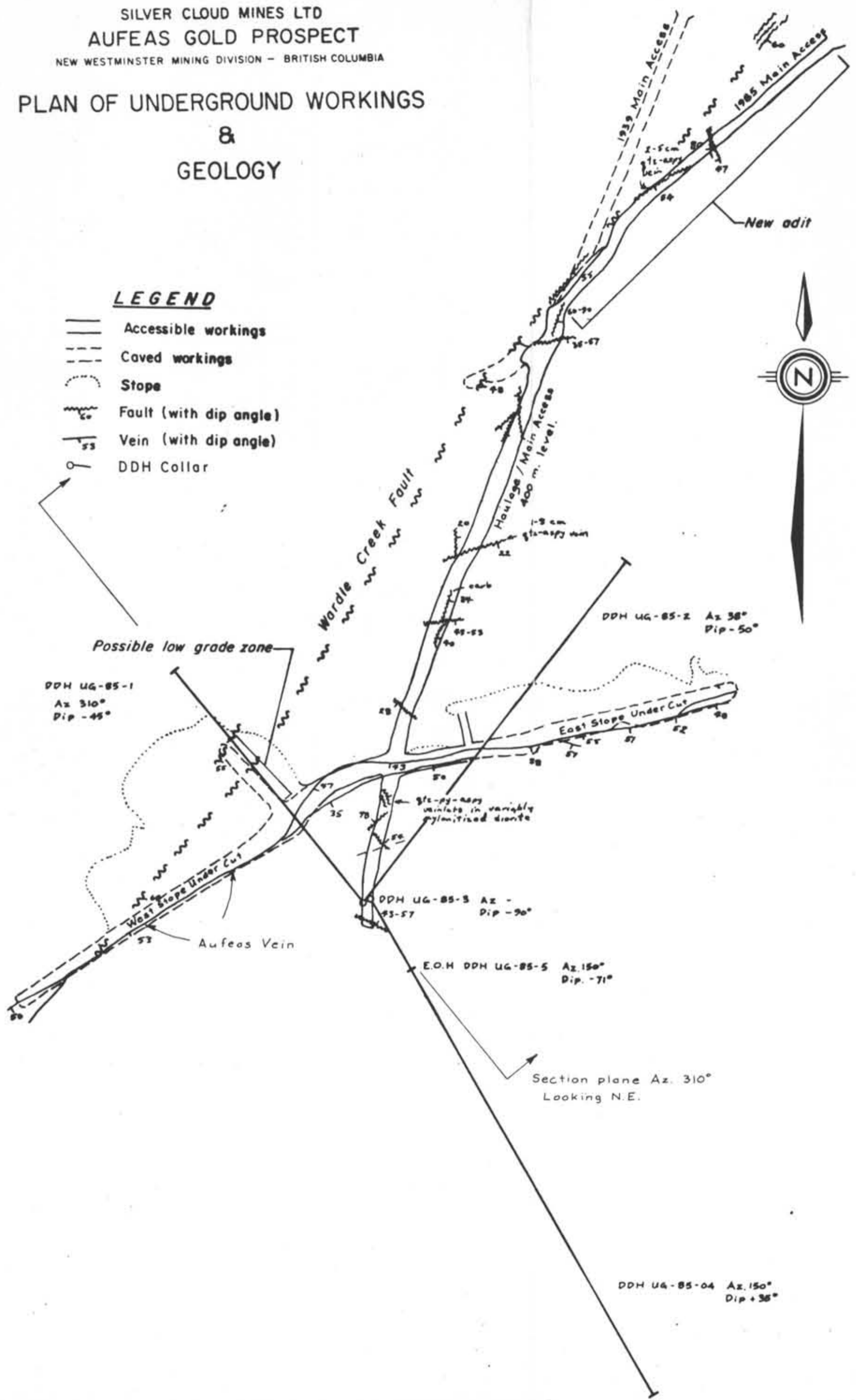
February, 1986

N.T.S. 92 H / 6

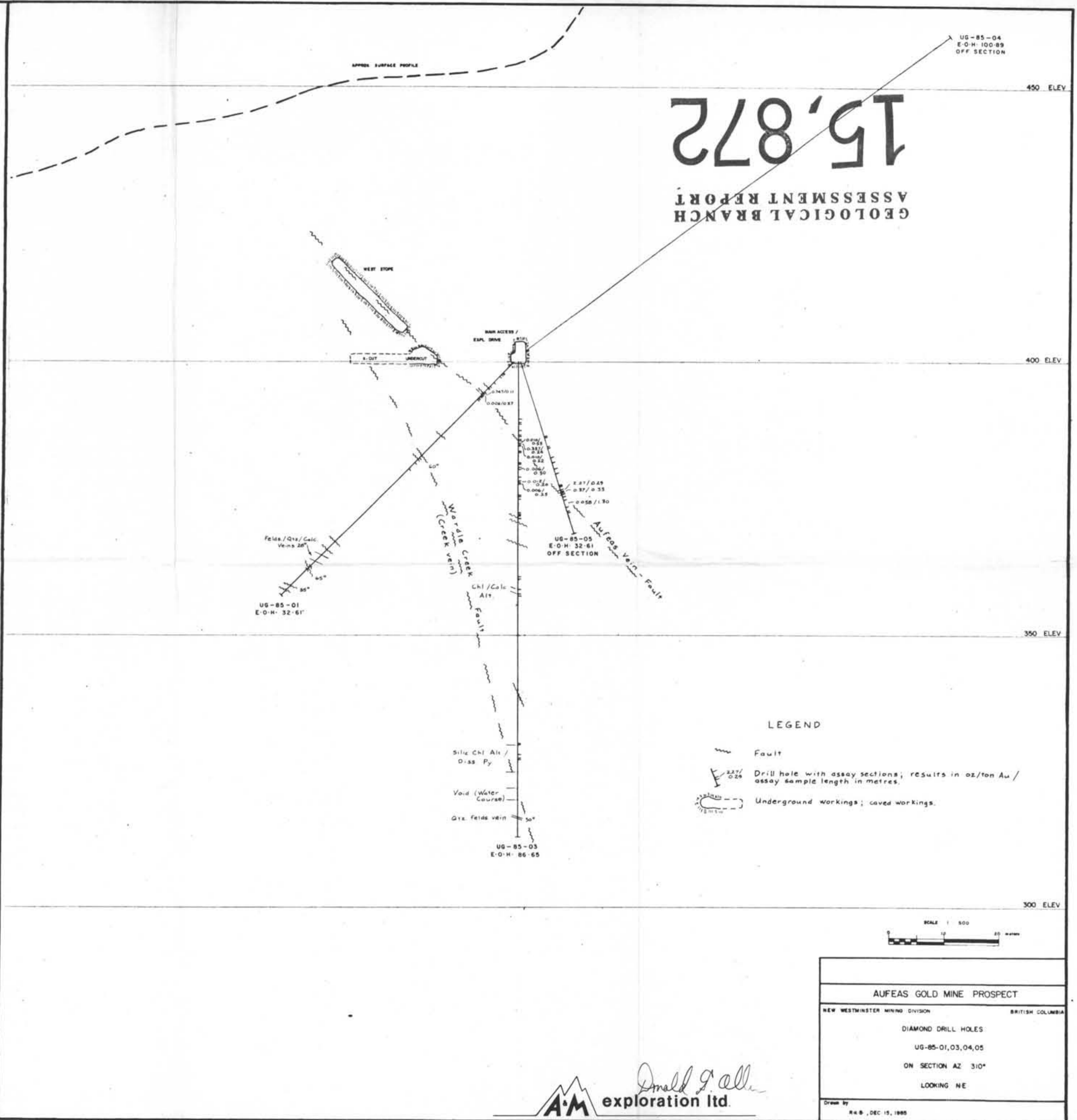
PLAN OF UNDERGROUND WORKINGS  
 &  
 GEOLOGY

LEGEND

- Accessible workings
- Caved workings
- Stope
- Fault (with dip angle)
- Vein (with dip angle)
- DDH Collar

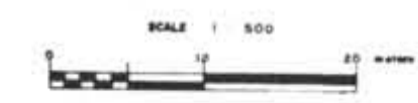


15,872  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT



LEGEND

- Fault
- Drill hole with assay sections; results in oz/ton Au / assay sample length in metres.
- Underground workings; caved workings.



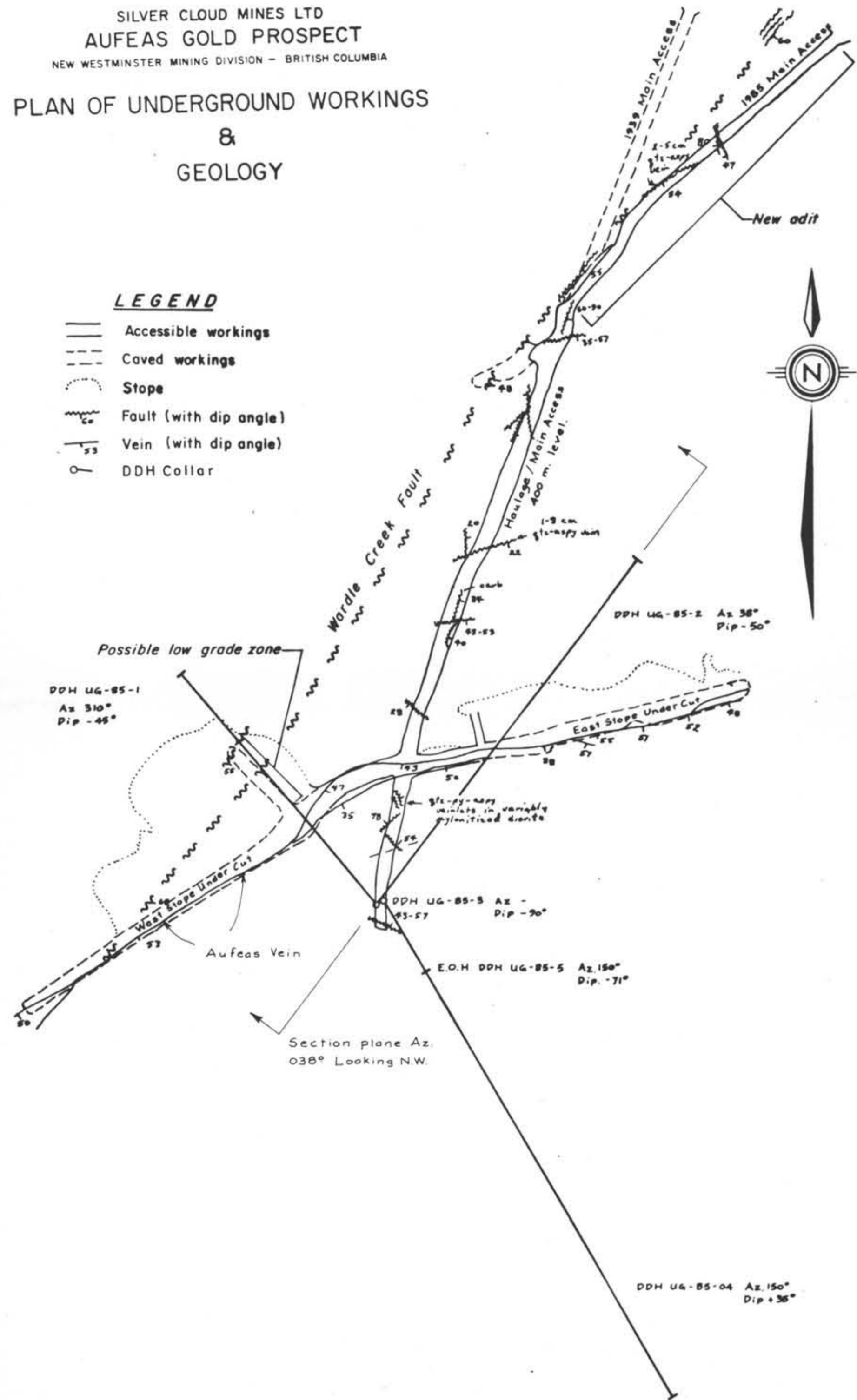
AUFEAS GOLD MINE PROSPECT	
NEW WESTMINSTER MINING DIVISION	BRITISH COLUMBIA
DIAMOND DRILL HOLES	
UG-85-01,03,04,05	
ON SECTION AZ 310°	
LOOKING NE	
Drawn by	R.B., DEC 15, 1985

*Small G. Allen*  
 exploration ltd.

PLAN OF UNDERGROUND WORKINGS  
 &  
 GEOLOGY

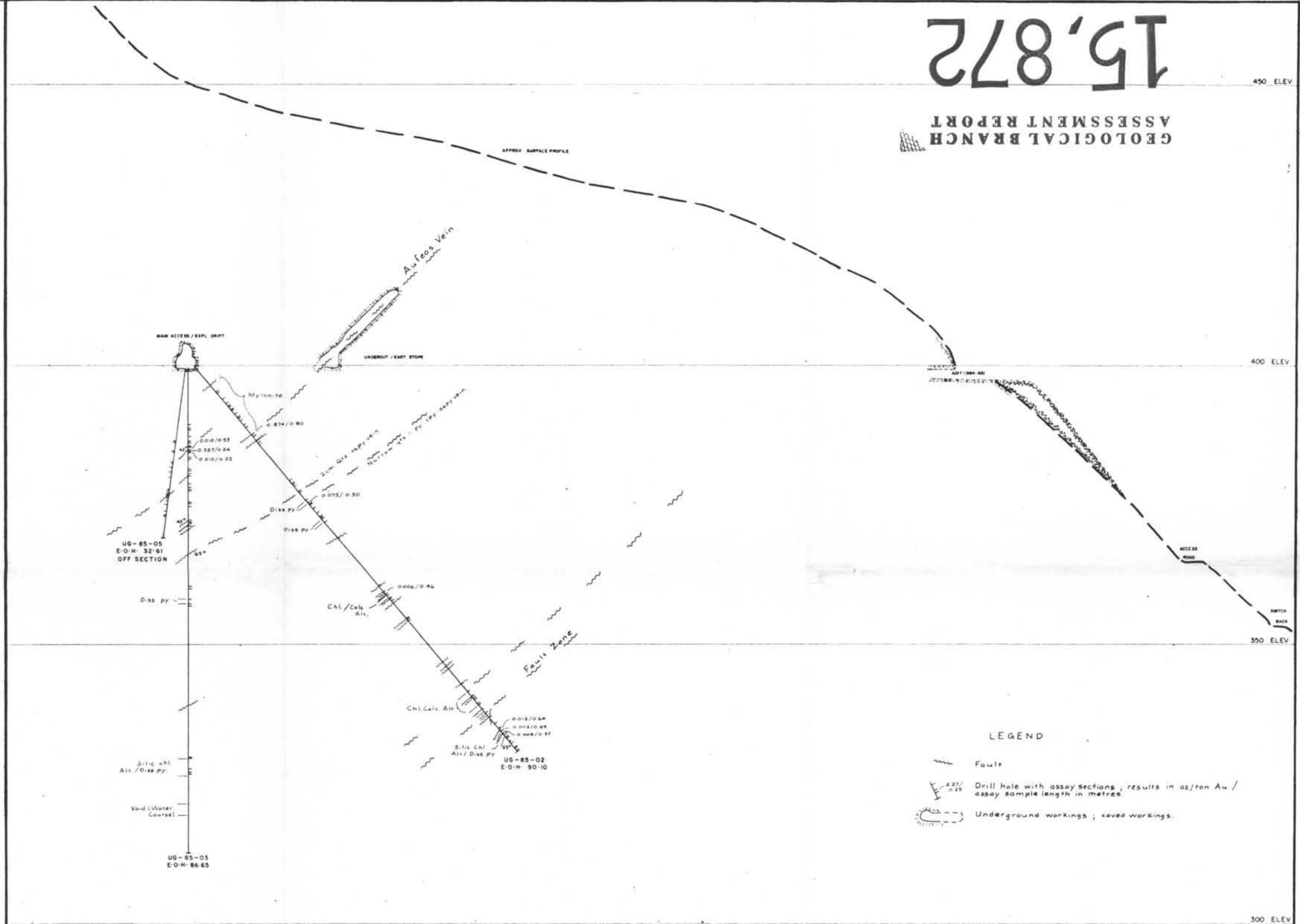
LEGEND

- Accessible workings
- Caved workings
- Stope
- Fault (with dip angle)
- Vein (with dip angle)
- DDH Collar



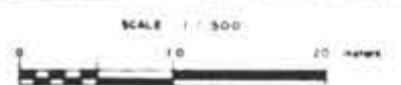
15,872

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT



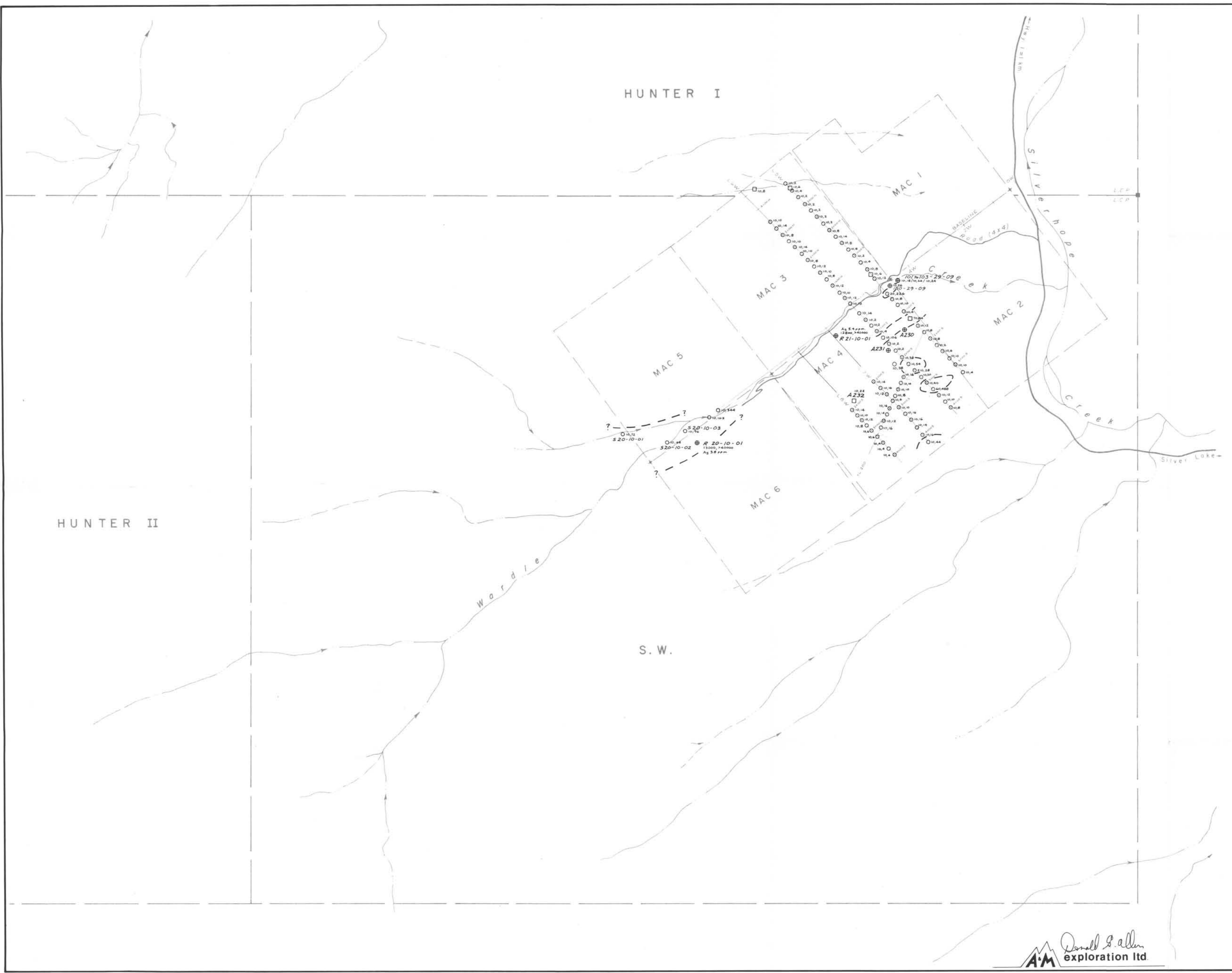
LEGEND

- Fault
- Drill hole with assay sections, results in oz/ton Au / assay sample length in metres.
- Underground workings; caved workings.



AUFEAS GOLD MINE PROSPECT	
NEW WESTMINSTER MINING DIVISION	BRITISH COLUMBIA
DIAMOND DRILL HOLES	
UG-85-03, 02, 05	
ON SECTION AZ 038°	
LOOKING NW	
Drawn by	RWB, DEC 15, 1985

Donald J. Allen  
 exploration Ltd.



**LEGEND**

- Geochemical contours ; 20 ppb Au or 40 ppm As.
- Soil
- Silt
- Rock
- Survey grid line, line and station numbers.
- Claim post ; two post claim, legal corner post.
- Claim boundary ; two post, modified grid.
- Creek.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,872**

SILVER CLOUD MINES LTD.  
AUF EAS GOLD PROSPECT  
NEW WESTMINSTER MINING DIVISION - BRITISH COLUMBIA

**GEOCHEMICAL MAP**

