DELEEN CONSULTING GEOLOGISTS LTD.

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ASSESSMENT REPORT

1980 Trenching and Sampling Undertaken on the

SILVER BAR PROPERTY

STEWART, BRITISH COLUMBIA

CLAIMS INVOLVED:

Eldorado, Almo, Ruby Silver Fr.,

Silver Thought 2 Fr., Silver Thought Fr.,

Moms, Lens, Banama Fr., Mineral Zone, Mountain Girl, Silver Bars, Vimy #1, Bar Silver, Eldorado, No. 2, Eldorado No. 3, Almo Fr., Ida O., Munro, Silver

Dollars, Bar Cross, Hibbard C., Amy A, Native Silver Fr., Lila #2, Lila #1. Glacier

MINING DIVISION:

Skeena

NTS LOCATION:

Map M 1048/1E

LATITUDE AND LONGITUDE:

56⁰07'

1300 101

OWNER OF CLAIMS:

Tournigan Mining Explorations Ltd.,

OPERATOR:

Outland Resources Corp.

AUTHOR:

John DeLeen, P.Eng., Consulting Engineer

DATE:

November 28, 1980.

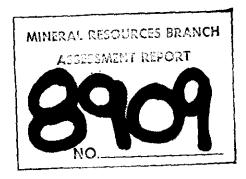


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SUMMARY

The trenching and sampling completed in 1980 confirmed and supported the initial samples taken in 1979. The mineralization on the Silver Bar Property is silver, gold, tungsten, copper, lead and zinc which occurs in beds of a siltstone sequence. The principal economic mineral is silver and this was established in all of the 201 gossan and trench samples taken on the property during the 1980 program which cost \$132,000. The five areas trenched and drilled in 1980 gave the following results:

Area

(1)	Cut 11A	4.8m (dri	ll cutting	s) 0.01% Pb 0.18 oz/1 <0.003 "	Ag	Zn
(2)	Tunnel 11	18.0m		0.08% Pb 0.93 oz/1 <0.003 "	Ag	Zn
	of which Tunnel 12	a 4m secti averaged	on south o	f 2.09 oz/1	Ag	
(3)	Tunnel 12 of tunnel		south sid	e 0.05% Pb 0.27 oz/7 <0.003 "	Ag	Zn
	1.2m N side (drill cu		12	0.21% Cu 0.57% Pb 2.09% Zn 2.04 oz/1 0.024 "		
(4)a-	-Tunnel 9 - back samp		1.5m	0.41 oz/7 <0.003 "		

```
(4)b Tunnel 10 - Average of 1.2m
                                    3.13 \text{ oz/T Ag}
                  back samples
                                    0.003 " Au
                  Portal area 17.7m
                                    0.19% Pb
                                    0.34% Zn
                                    1.26 oz/T Ag
                                    0.003 " Au
      of which 10 meters averaged
                                    0.23% Pb
                                    0.19% Zn
                                    2.78 oz/T Ag
                                    0.008 " Aŭ
      and two grab samples from a
                                    4.52 oz/T Ag
      2m zone averaged
(4)c
      Tunnel 8 portal area surface
                                    1.77 oz/T Ag
        samples 25m
                                    0.009 "
                                              Αu
        of which 12m averaged
                                    2.44
                                              Αg
                                    0.003
                                              Αu
(5)
      Tunnel 15 - six trench
        samples representing a
                                    0.06 \text{ oz/T Aq}
        12m width averaged
                                    0.024 " Au
        and six back samples
                                    0.15 oz/T Ag
        from Tunnel 15 averaged
                                    0.022 " Au
      The average of five grab
        samples from the high-
        grade dump in Tunnel 15
                                    0.50 oz/T Ag
        averaged
                                    0.884 " Au
```

The work in 1980 confirmed the 1979 sampling and additional work is recommended on the Silver Bar Property for 1981 as follows:

- Geologic mapping and prospecting of the areas not investigated to date.
- Trenching and sampling.
- 3. A program of 10,000 feet of diamond drilling in the above five areas.

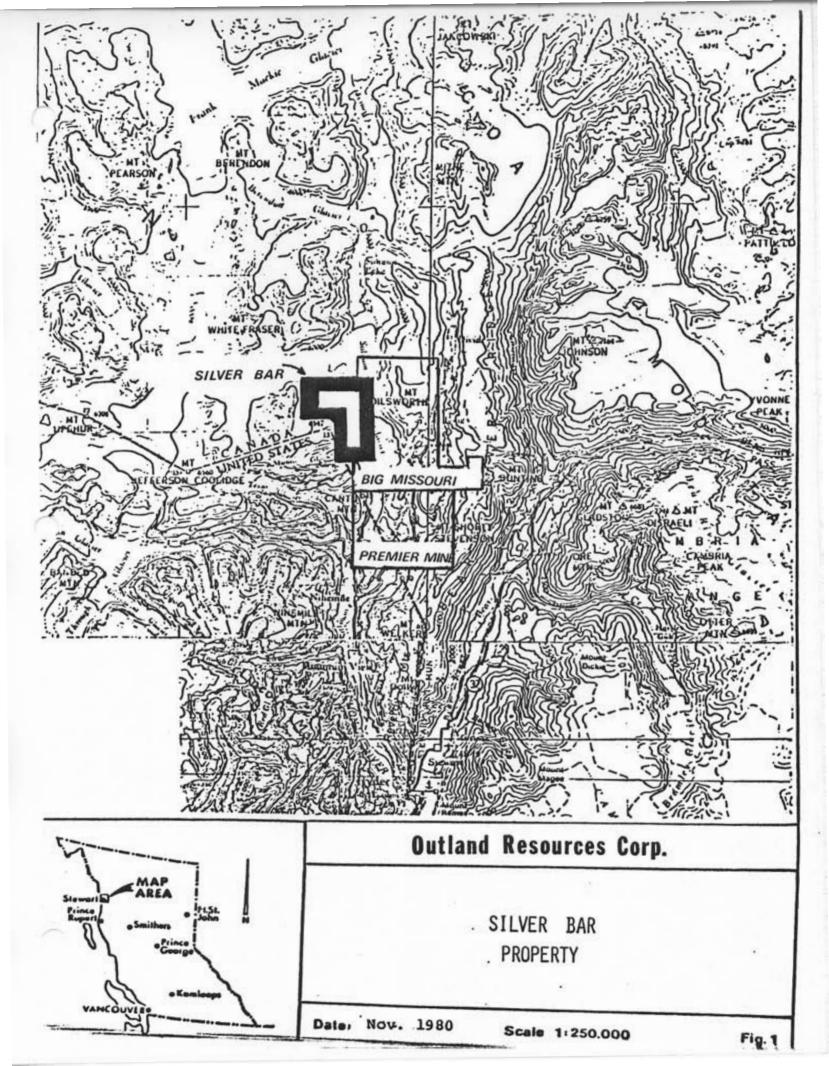
The estimated expenditure is \$525,000.

SILVER BAR GROUP

LOCATION AND ACCESS

The Silver Bar claims are located on the western side of the Salmon Glacier, about 24 kilometers north of the town of Stewart, B.C. (Figure 1). The property is located about 5 kilometers northwest of the Premier Mine, and adjoins the western margin of the Big Missouri property currently being developed towards production by Western Mines Limited under agreement with Tournigan Mining Explorations Ltd.

Access to the property at the present time is by helicopter from Stewart. However, a road could be constructed across the Salmon Glacier, a distance of 2,000 meters from the Granduc road.

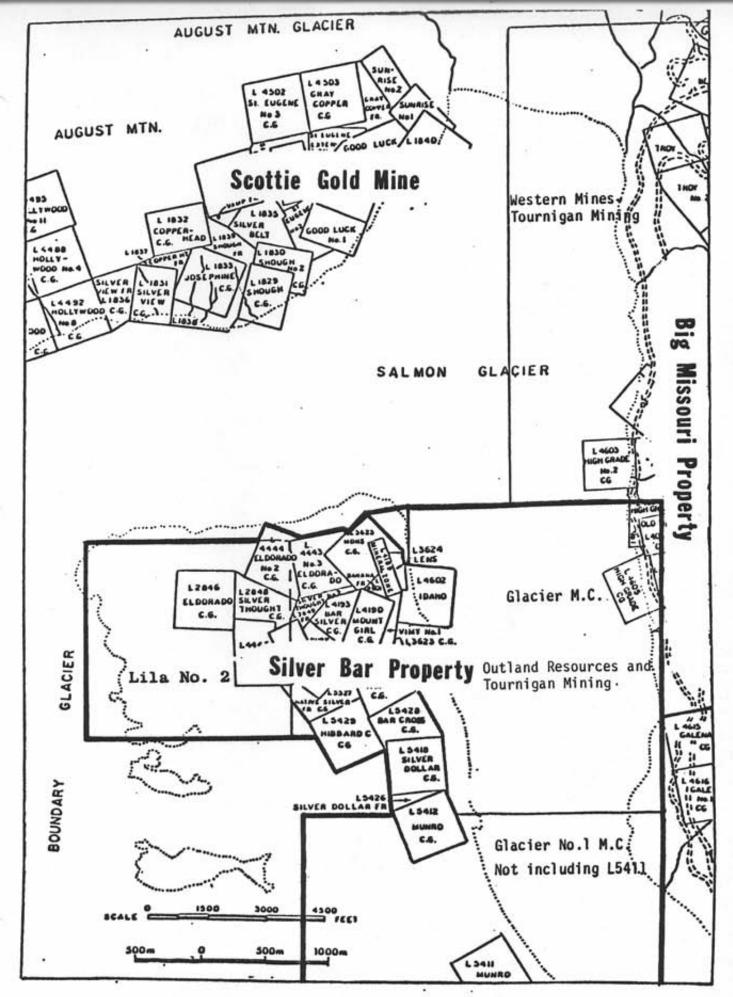


CLAIMS (total of 86 units)

The Silver Bar group of claims (Figure 2) consists of 23 reverted Crown-granted mineral claims, sixteen units Lila #1, nine units of the Lila No. 2 claim, 20 units of the Glacier and 18 units of the Glacier No. 1 claims.

SKEENA MINING DIVISION

CLAIM NAME	LOT NO.	RECORD	UNIT	EXPIRY DATE
Almo Almo Fr. Amy A. Bar Cross Bar Silver Eldorado Eldorado No. 3 Eldorado No. 2 Hibbard C. Ida O. Lens Mineral Zone Mountain Girl	2847 4445 5430 5428 4193 2846 4443 4444 5429 4602 3624 4189 4190	998 1018 1041 1039 1005 997 1016 1017 1040 1020 1000 1003 1004	1 1 1 1 1 1 1 1 1 1	8 Feb. 1983
Moms Munro Native Silver Fr. Ruby Silver Fr. Silver Bars Silver Dollars Silver Thought Fr. Silver Thought No.2 Fr. Vimy No. 1 Banana Fr. Lila No.2 Glacier	3625 5412 5527 5528 4191 5418 2848 2849 3623 4601	1000 1037 1042 998 1004 1038 999 1004 1003 1630 1677	1 1 1 1 1 1 1 1 9 20	" " " " " 20 Aug. 1983 30 Aug. 1982
Glacier No.1 Lila No.1		2641 1678	18 <u>16</u>	14 Nov. 1981 30 Aug. 1982



SILVER BAR CLAIMS

TOPOGRAPHY

The relief on this property varies from 1000 to 1500 meters. Ice and snow-fields cover a portion of the claim block, particularly the claims located above 1200 meters elevation.

The Salmon Glacier, which covers the northern and eastern sides of the Silver Bar claims, has receded since the property was staked 58 years ago. The surface of the glacier has dropped about 120 meters since 1900. Access to the old exploration tunnels was originally from the surface of the glacier. These tunnels are now 100 to 150 meters above the surface of the glacier.

HISTORY OF THE SILVER BAR CLAIMS

This group of claims has been described in the Minister of Mines reports since 1921. It is also described in Bulletin 58, "GEOLOGY AND MINERAL DEPOSITS OF THE STEWART AREA", (Reference 2). The maps from Bulletin 58 were used for this report.

The property has been prospected in past years by the driving of tunnels and crosscuts. To date fifteen tunnels, and at least two prospect pits have been completed. However, many old workings, presumably prospect pits, described in the literature have been covered by talus or sloughed-in. The drifts and crosscuts are usually short, less than 50 meters; however, the No. 6 tunnel, the longest, has a length of 300 meters.

EXAMINATION OF THE PROPERTY

The Silver Bar claims were examined in August 1979. A report for exploration on the "SILVER BAR GROUP" was submitted in October 1979. The recommendations of this report which were carried out in 1980 were as follows:

- (a) The completion of topographic maps on a scale of 1:2500 and 1:5000. These maps were prepared by McElhaney Surveying.
- (b) The geologic mapping of the claim group. The property was mapped on a scale of 1:2500 by D. Klepacki of Geotex Consultants of Vancouver.
- (c) The completion of a trenching and sampling program. An extensive trenching and sampling program was completed in 1980. Large samples weighing about 10 kilograms were crushed and split on the property. These samples were sent to Chemex Labs Ltd. in Vancouver for assay. Two hundred and one channel and drill cutting samples were taken. The sample sheets are included in Appendix B. The results of the samples have been plotted on Figure 10.

GENERAL GEOLOGY (Figure 3)

The main rock units on the Silver Bar claims are of the Hazelton sediments, the Bowser sediments and the Texas Creek intrusive. The Hazelton sediments are a series of green massive volcanic conglomerates, sandstones with

minor breccia and intercalated siltstones. The Bowser sediments are a series of siltstones, greywackies, argillites, with minor beds of chert, pebble conglomerate and limestone. The Texas Creek intrusive is a granodiorite in composition. The above three units are cut by the Portland Canal dyke swarm. As can be seen in Figures 3, 4 and 5, this dyke swarm outcrops not only on the Silver Bar claims, but also on the claims of the Big Missouri group. The above generalized descriptions of the rock units have been taken from Bulletin 58 of the B. C. Department of Mines (2).

GEOLOGY OF THE CLAIM GROUP (Figures 4, 5 and 6)

This section of the report has been completed by D. Klepacki of Geotex Consultants Limited. The maps, figures 5 and 6 of the Silver Bar claim group were completed by Mr. Klepaki. His work was directed towards resolving the bedrock distribution and the geologic controls of the sulphide mineralization.

The stratigraphy of the bedded rocks in the map area was determined from primary sedimentary structures and load casts in the bedded siltstone and mudstone (unit 3). No evidence of a major unconformity was found, so the rocks located structurally underneath unit 3 are considered to be stratigraphically older. The oldest rocks mapped are a series of highly altered light green, massive volcanic flows and tuffs. This predominately volcanic unit is overlain abruptly by dark grey argillacaeous sediments. Some lithic tuffs were found at the base of this unit. An important, thin white felsite breccia, in a carbonate matrix, exists in this assemblage. Where the sulphide concentration is

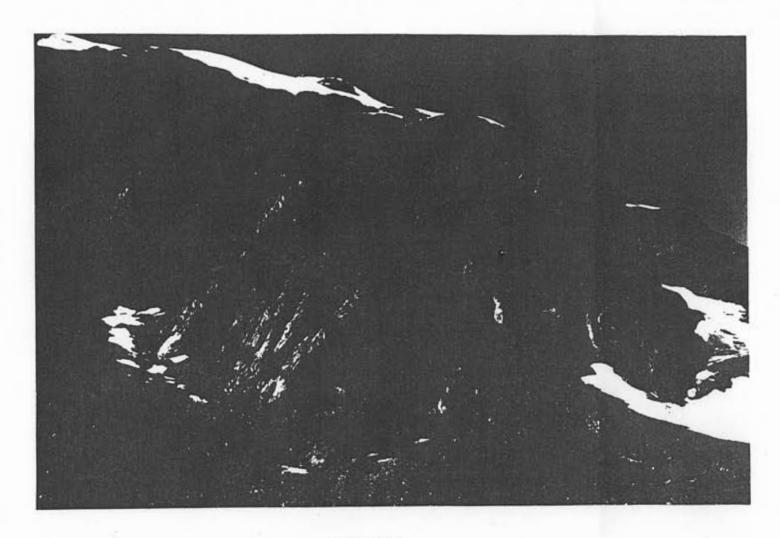


FIGURE 4

DYKE SWARM AND GOSSAN ZONES ON THE SOUTHERN PORTION OF SILVER BAR CLAIMS

sufficient the tuffs and sediments are pyritic and rusty weathering. The youngest bedded rocks are light grey siltstones and mudstones with common sedimentary structures. Some silty quartzite horizons are present in this sedimentary sequence. These rocks have been assigned to the Lower to Middle Jurassic Hazelton Group by Grove. (2)

All stratified rocks are intruded by members of the Portland Canal Dyke Swarm of probable Eocene age. (2) These rocks are generally porphyritic and range in composition from a diorite to granodiorite. These intrusions are cut by a late felsic quartz porphyry. The relative timing of the intrusion of these phases was determined from crosscutting relationships, chilled margins and xenoliths of earlier phases.

The stratified rocks on the property are foliated and were folded in a single event. Some minor folds, with the foliation fanning about the hinge or sub-parallel to the axial plane, are locally developed. The foliation orientation averages 80/70 SE but northwest dipping foliation is present. The axes of minor folds are consistently westsouthwesterly trending with moderate plunge (260/30SW). The major structure of the area is a large east-west trending syncline, based on a change in bedding attitude, tops direction and symmetry of minor folds, (see Figure 5, 6 and 7). Major faults in the area trend northeast-southwest and have a small breccia zone along fault trace. A left lateral offset of two meters involving the latest andesite dyke phase was measured. A northeast trending fracture cleavage with slight right lateral offset is also locally present. This is interpreted as a conjugate fracture set to the major northeast trending faults. Some minor faults trending

southeast-northwest, subparallel to the Portland Canal Dyke Swarm, are also present. The displacement along these faults was not obtained, but it cannot be more than 20 meters on the basis of faulted early diorite dykes. The geologic history of the claim group was determined on the basis of crosscutting relationships and structural position. The following interpretation is applied to rocks of the Silver Bar Claim Group:

- Volcanic eruption of flows and pyroclastic material, deposition of intermediate lavas and tuffs, occasional quiescent periods resulting in deposition of black sediments.
- 2. Deposition of fragmental volcanics and black sulphidic sediments marking the cessation of volcanism. A single eruption of acid volcanics marked by a felsite breccia in carbonate matrix occurred at this time.
- Deposition of clastics in a higher energy environment.
 Minor current activity is indicated by local scour structures.
- 4. Lithification and folding of stratified rocks and the development of foliation and fissility.
- 5. Intrusion of Portland Canal Dyke Swarm. The sequence is noted on Figure 5. The possible remobilization of sulphides by small scale convection cells may have concentrated the deposits at this time.
- 6. Faulting and development of fracture cleavage.
- 7. Glaciation.

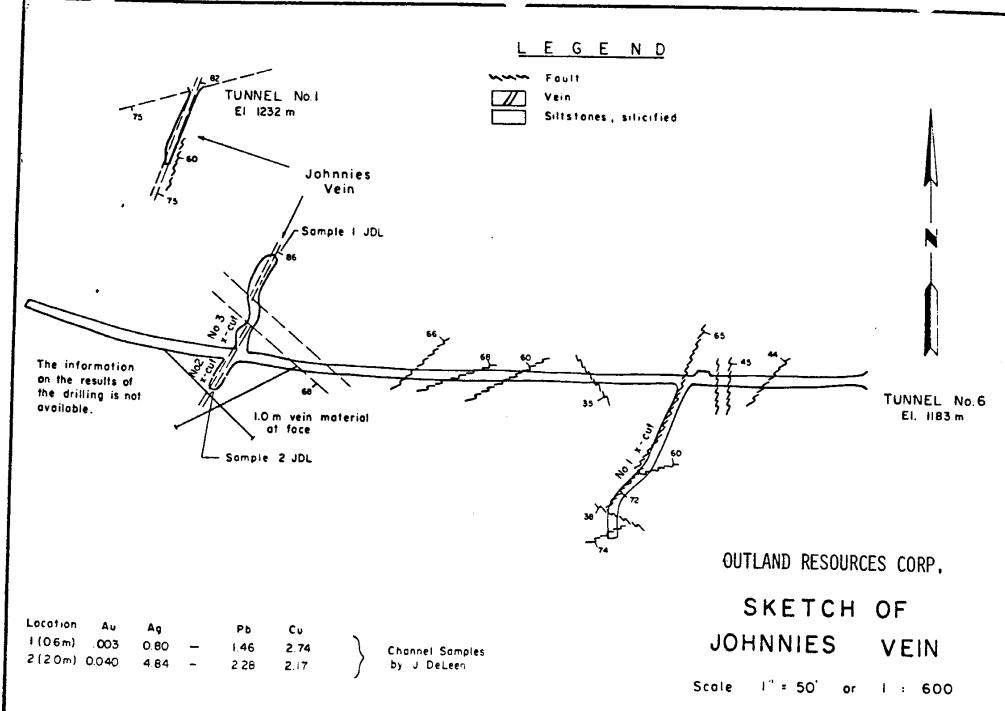
MINERALIZATION

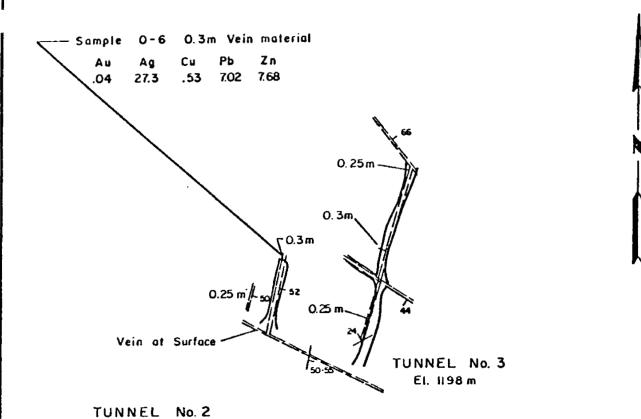
The minerals noted in the gossan zones at the Silver Bar Property are pyrite, pyrrhotite, arsenopyrite, sphalerite, galena, chalcopyrite, tetrahedrite, and an unidentified tungsten mineral. The mineralization occurs in veins and in zones of massive sulphides within some of the units of the sedimentary series. The following description of the vein deposits is taken from the writer's 1979 report. No effort was made in 1980 to examine the vein deposits as they do not offer sufficient potential for large scale or open pit mining opeations. The description of the vein deposits has been included in order to give a complete description of the mineralization.

VEIN DEPOSITS (Reference 1)

The vein deposits generally are found to cut the sediments and oldest dykes. The strongest vein is Johnnies Vein, which is exposed in Tunnel 1 at an elevation of 1,232 meters (see Figure 7). Johnnies Vein has a north-northwest strike, and dips to the east at 70 degrees. The vein in the No.6 Tunnel has a width of about 60 centimeters on the north face, and about 2 meters on the south face. No assays were obtained from the No.1 Tunnel as the portal was still covered by snow at the time of the examination. Two drill holes were completed on Johnnies Vein from the No.6 Tunnel. The results of the drilling are unknown.

The No. 1 vein, located on the western portion of the area, was still covered by snow. The enclosed sketch of the No.1 vein (Figure 8) was taken from assessment report $375.\overset{3}{}$





OUTLAND RESOURCES CORP.

SKETCH MAP

LEGEND

EI. 1212 m

Vein

Silicified Argillite

OF DEVELOPMENT ON

NOTE:

Taken from Assessment Report No 375

Scale 1" = 50' or 1 : 600

FIGURE 8

No. I VEIN

REPLACEMENT DEPOSITS

In keeping with the various reports completed on this property, the writer has kept the term "replacement" for the lenses of sulphide mineralization that have the same strike and dip as the bedding. These deposits appear to be of volcanogenic origin, and would be classified as "stratabound" deposits. The minerals of the ore zones are pyrite, pyrrhotite, chalcopyrite, arsenopyrite, tetrahedrite, argentite and an unidentified tungsten mineral. Twenty-nine samples were assayed for WO_3 and these samples contained 0.01 to 0.06% WO_3 (Appendix B). The mineral zones were reported to be located within the dyke rocks and not in the siltstones. However, a close examination of the "replacement" deposits shows that they are located in pyrite-rich siltstones and mudstones and bear a close spatial relation to the dykes.

ASSAY RESULTS (See Figures 10 and 11)

In 1980 only the stratabound deposits were trenched and sampled, as these deposits offer the most potential to produce an economic ore body.

The mineralized zones have in general a vertical dip and an east-west strike. Four zones of silver mineralization were trenched in 1980. A fifth and sixth zone located at pit 16 and tunnel 7 were not trenched in 1980. The deposits of tunnels 8, 9 and 10 are located near and on the southern side of the axis of the syncline. The deposits of tunnels 12, 11 and Trench 11A are located on the northern side of the axial plane of the syncline. Trench X, Y and Tunnel 13A are located on the axial plane of the syncline.

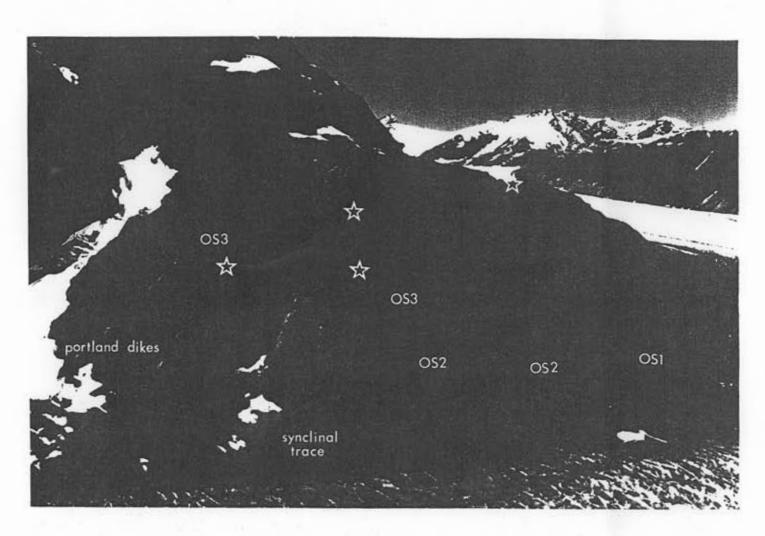


FIGURE 9
GEOLOGY OF AREA TRENCHED IN 1980

Tunnels 15 and 7 are located on the southern side of the syncline and the pit 16 zone is located on the northern side of the axial plane of the syncline. The descriptions of the mineralized zones are described in their order of location from north to south as follows:

A. Trench 11A

Cut 11A was tested by completing two 12 foot jack hammer holes and sampling the cuttings. The 4.8 meters sampled averaged 0.04 Cu, 0.01 Pb, 0.06 Zn, 0.18 Ag, 0.03 Au. Two samples taken from this pit in 1979 contained the following: 0.15 Cu, 0.02 Pb, 0.06 Zn, 0.20 Ag and 0.003 Au.

B. Tunnel 11 Area

Sixteen channel and drill cutting samples were taken for assay. All of the samples, averaged across a width of 18.0 meters, 0.08 Pb, 0.14 Zn, 0.93 Ag and 0.004 Au. A four meter section located just south of the portal averaged 2.09 ounces of silver. This sample compared favourably with the four chip samples taken in 1979. These samples averaged 0.13 Pb, 0.14 Zn, 2.82 Ag and 0.03 Au.

C. Tunnel 12

In Tunnel 12, the chip and drill cutting samples on the southern side of the tunnel averaged 0.05 Pb, 0.05 Zn, 0.27 Ag and 0.003 Au. The true width of the zone located on the northern side of the No.6 portal is unknown. It is however, a different zone from that found in Tunnel 11.

D. Trenches X & Y

In order to test the gossan zone located

between tunnels6 and 9, a 30 meter trench, Trench X and a 21 meter trench "Y" were completed. The drill cuttings and the channel samples of Trench "X" averaged 0.20 Ag and the channel samples of trench "Y" averaged 0.33 Ag.

E. Tunnel 13A

No work was completed on tunnel 13A. The 1979 chip sample from the portal contained low base metal values and 0.96 Aq.

F. Tunnels 8, 9 and 10

In the tunnel 8, 9 and 10 area, the mineralization was sampled by drill cuttings and chip samples in the trenches and by back samples in tunnels 9 and 10. Tunnel 8 was not sampled as it contained 12 cases of old powder. The 19 back samples of Tunnel 9 averaged 0.41 Ag and 0.003 Au. The low silver values are due, in part, to the fact that the mineralized zone in Tunnel 9 has been partly removed by a dyke. The surface samples, drill cuttings and channel, of Tunnel 10 averaged over 17.7 meters 0.18 Pb, 0.34 Zn, 1.26 Ag and 0.003 Au. A ten meter section located immediately to the north of Tunnel 10 contained the following:

10m 1980 chip samples 0.23 Pb, 0.19 Zn, 2.78 Ag, 0.008 Au 10m 1979 chip samples 0.60 Pb, 0.14 Zn, 2.63 Ag, 0.016 Au

The drill cuttings from trench 10 were not used for the comparison as some of the mineralization is invariably lost in the collecting and preparation of the sample. Two grab samples were taken from an oxidized zone about one meter in width located at Sample 11. The two

samples contained the following:

4.22 Ag - 0.005 Au 4.81 Ag - 0.014 Au

Eight 1.2 meter back samples were taken from Tunnel 10. These samples averaged 3.13 Ag and 0.003 Au.

The surface of the Tunnel 8 area was trenched and sampled. The average of all of the samples over 25 meters was 1.77 Ag and 0.009 Au. The chip samples located to the south of the portal averaged over 12 meters 2.44 Ag and 0.009 Au. The chip samples to the north of the tunnel averaged 0.99 Ag. The 1980 sampling compared favourably with our 1979 sampling as follows:

1980 12 meters 2.44 Ag 0.009 Au 1979 8.1 " 2.56 Ag 0.014 Au

Trench V 8.5 meters 0.99 Ag 0.003 Au

Trench W 8.0 " 0.51 Ag 0.023 Au

Trench 2 4.0 " 0.28 Ag <0.003 Au

G. Tunnel 15

Tunnel 15, located in the southeastern portion of Figure 10, was partially investigated in 1980. It was sampled and the surface above the tunnel was trenched. The average of the six trench samples was 0.06 Ag and 0.024 Au. The average of six 1.5 meter back samples from Tunnel 15 was 0.15 Ag and 0.022 Au. The mineralization in this tunnel is associated with arsenopyrite and contains lower silver and higher gold values than the other areas sampled. Five selected grab samples from an ore pile in the tunnel averaged 0.50 Ag and 0.884 Au. This zone is located on a cliff face and can

only be tested by diamond drilling holes.

H. Other Zones

The gosson zones located in the sediments in the northwestern portion of Figure 10 were partially sampled. All of the samples contained low silver values. Trench 16 was not resampled in 1980 and the results of the samples taken in 1979 are as follows:

Chip 2m 0.11 Pb, 1.03 Zn, 0.28 Ag 0.003 Au Grab-ore Pile 6.24 Pb, 3.33 Zn, 4.30 Ag 0.010 Au

The gossan zone located at Tunnel 7 south and west of Figure 10 was not investigated in 1980.

CONCLUSION

The mineralization occurs in selected beds in the sedimentary sequence. The work in 1980 has confirmed the results of the preliminary samples taken in 1979. It has also shown that the silver mineralization is widespread in the sedimentary sequence - every one of the 201 samples taken in 1980 contained silver values. To date five zones of base and precious metals have been partially sampled or trenched. They are as follows:

- 1. Trench 16
- 2. Tunnel 11
- 3. Tunnel 12
- 4. Tunnels 8, 9 and 10
- 5. Tunnel 15

A sixth zone located at Tunnel 7 remains to be examined.

The claims of the Silver Bar Group have been partially investigated and a program of geologic mapping, sampling and trenching is warranted on the unexamined portion of the claim group. On the portion investigated in 1980, a program of 10,000 feet of diamond drilling is warranted.

Respectfully submitted

DELEEN CONSULTING GEOLOGISTS LTD.

NN 28, 1980

Date

STATEMENT OF EXPENDITURES

June 12 to October 22,1980

A. PHYSICAL WORK

 Trenchin 	g
------------------------------	---

30 days X 1 man X \$73/day	2,190
30 " X 1 " X \$91/day	2,730
Mobilization & Demobilization	2,225
Blasting material	594
Drill bits and equipment	550
Fuel and oil for compressor	645

2. Hotel and Meals

30 days X 2 men X \$56/day

3. Supervision and Consulting Engineer

10 days X \$400/day <u>4,000</u> 16,294

3,360

B. GEOCHEMICAL WORK

1. Trench sampling: includes sample preparation

58	days	Χ	1	man	Χ	\$73/day	4,234
58	days	X	1	11	X	\$91/day	5,278

2. Trench assays

205	samples	assayed	for	Αu,	Ag	9	\$9.50	1,947
95	11	11		Pb,	Zn	0	11.50	1,093
59	н	II.		Cu		6	5.50	325
29	н	11		Woa		9	9.00	261

3. Hotel and Meals

4. Supervision: Assay locations, layouts, etc.

20 days @ \$400/day 8,000

5. Cost of Report Preparation, typing etc.

38¼ hrs.	6	\$50/hour	1,912
Drafting			1,125

STATEMENT OF EXPENDITURES

cont'd

6. Rental Vehicles

\$8,741 X 20% allocable

1,748

7. Helicopter

\$14,275 X 50% allocable

7,137

39,556

TOTAL 'A' and 'B'

55,850

APPENDIX "A"

BIBLIOGRAPHY

- "OUTLAND SILVER BAR GROUP", Stewart Area, British Columbia, by John Deleen, October 31, 1979.
- 2. "GEOLOGY AND MINERAL DEPOSITS of the STEWART AREA, BRITISH COLUMBIA", by E. W. Grove, Bulletin No. 58, B. C. Department of Mines, 1971.
- 3. "OUTLAND SILVER BAR PROPERTY" Assessment Report No. 375 by D. Davidson.

A P P E N D I X "B"

ASSAY CERTIFICATES



CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. V7J 2C1 CANADA TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 04-352597

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 69787

Tournigan Explorations Ltd.,

INVOICE NO. 38697

704 - 535 Thurlow St., Vancouver, B.C.

Aug. 18/80

V6E 3L2

RECEIVED

SILVER BAR PROJECT ATTN:

ANALYSED

Sept.10/80

SAMPLE NO. :	%	%	%	oz/ton	oz/ton	
JAME 2	Cu	Pb	Zn	Ag	Au	
37051	0.01	0.03	0.03	0.18	<0.003	
37052	0.04	<0.01	0.03	0.28	<0.003	
37053	0.03	<0.01	0.01	0.08	<0.003	
37054	0.07	0.01	0.01	0.16	<0.003	
37055	0.05	0.06	0.05	0.24	<0.003	
37056	0.03	0.02	0.02	0.16	<0.003	
37057	0.05	0.01	0.03	0.20	0.032	
37058	0.21	0.57	2.09	2.04	0.024	
37059	0.04	0.19	0.08	1.12	0.005	
37060	0.03	0.06	0.27	0.90	0.003	
37061	0.05	0.10	0.27	1.00	0.003	
37062	0.03	0.53	1.15	1.60	0.020	
37063	0.05	1.00	1.64	2.74	0.005	
37064	0.03	0.79	1.17	3.74	0.010	
37065	0.07	0.09	0.12	1.48	0.005	·
37066	0.13	1.12	2.06	2.12	0.010	
37067	0.24	2.28	1.11	2.92	0.012	-
37068	0.06	0.08	0.11	0.70	0.003	
37069	0.01	0.01	0.03	0.14	<0.003	
37070	0.01	<0.01	0.03	0.14	<0.003	
37071	0.13	0.01	0.01	0.96	0.003	
37072	0.03	0.02	0.02	0.40	<0.003	
37073	0.01	0.02	0.01	0.16	<0.003	
37074	0.04	0.14	0.48	0.60	<0.003	
37076	0.02	0.05	0.14	0.14	<0.003	
37077	0.01	<0.01	0.09	0.12	<0.003	
37078	0.03	0.09	0.49	0.40	<0.003	
37079	0.05	0.28	0.37	1.24	<0.003	
37080	0.01	0.01	0.20	0.18	<0.003	



ATTN:

CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE: 604

TELEX:

04-352597

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 69904

TOURNIGAN EXPLORATIONS LTD.

38826 INVOICE NO.

#704, 535 Thurlow Street Vancouver, B.C.

RECEIVED

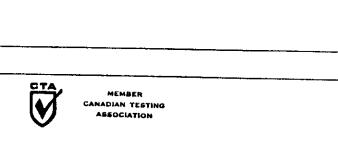
Aug. 25/80

ANALYSED

Sept. 18/80

V6E 3L2

SAMPLE NO. :	Pb %	Zn %	Ag Oz/Ton	Au Oz/Ton	
78651A		,,,	2.30	0.016) HARRY FRACTION
78652A			5.70	0.034	MARKI I RACIIOR
37106	0.28	0.03	0.36	<0.003)
37108	0.04	0.02	0.20	<0.003	
37110			0.76	<0.003	SILVER BAR PROJECT
37107	0.04	0.01	0.05	<0.003	
37109	0.16	0.01	4.22	0.005)



REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



ATTN:

CHEMEX LABS LTD.

SILVER BAR PROJECT

21 BROOKSBANK AVE. NORTH VANCOUVER, B.C. V7J 2C1 CANADA TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 04-352597

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 69848

TOURNIGAN EXPLORATIONS LTD.

INVOICE NO.

#704, 535 Thurlow Street

38828

Vancouver, B.C.

RECEIVED

Aug. 21/80

V6E 3L2

ANALYSED

Sept.18/80

SAMPLE NO. :	Pb %	Zn %	Ag Oz/Ton	Au Oz/Ton	
37081	0.05	0.10	0.58	< 0.003	
37082	0.06	0.25	0.36	< 0.003	
37083	0.24	0.38	1.62	0.003	
37084	0.09	0.12	0.84	< 0.003	•
37085	0.07	0.09	0.76	< 0.003	
37086	0.20	0.29	1.40	0.005	
37087	0.35	0.46	0.80	< 0.003	
37088	1.03	1.68	2.34	0.005	
37089	0.07	0.19	1.00	< 0.003	
37090	0.13	0.10	3.66	0.012	
37091	0.36	0.23	2.48	0.020	
37092	0.21	0.21	2.52	0.014	
37093	0.15	0.19	1.40	< 0.003	
7094	0.30	0.24	1.92	0.005	
37095	0.35	1.02	0.84	0.003	
37096	0.09	0.30	0.90	< 0.003	
37097	0.07	0.06	3.32	0.030	
37098	0.40	0.18	3.76	0.028	
37099	0.04	0.02	0.28	0.005	
37100	0.08	0.63	0.40_	0.003	
37101	0.08	0.17	0.36	< 0.003	
37102	0.11	0.06	0.32	< 0.003	
37103	0.10	0.07	0.28	< 0.003	
37104	0.16	0.25	0.44	< 0.003	
37105	0.07	0.11	0.32	< 0.003	



REGISTERED ASSAYER. PROVINCE OF BRITISH COLUMBIA



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. V7J 2C1 CANADA TELEPHONE: 984-0221 604 AREA CODE: 04-352597 TELEX:

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

Tournigan Explorations Ltd.,

704 - 535 Thurlow St.,

Vancouver, B.C.

V6E 3L2

ATTN:

CERTIFICATE NO. 69931

INVOICE NO.

38965

RECEIVED .

Aug. 27/80

ANALYSED

Sept. 23/80

 	_	_	
S	A	M	ı

	Z	7.	7	oz/ton	oz/ton	
SAMPLE NO. :	Cu	Pb	Zn	Ag	Au	
37111		0.07	0.12	0.30	< 0.003	
37112		0.06	0.10	0.24	< 0.003	
37113		< 0.01	0.02	0.16	< 0.003	
37114	AAT TE HELETINES	0.07	0.07	0.50	0.003	
371 <u>15</u>		0.04	0,13	0.35	800.0	
37116		0.04	0.13	0.36	0.005	
37117		0.10	0.57	0.90	0.003	
37118	< 0.01	0.01	0.03	0.16	0.003	
37119	< 0.01	< 0.01	0.07	0.16	< 0.003	
37120	0.01	< 0.01	0.01	0.10	< 0.003	
37121	< 0.01	0.01	0.05	0.12	< 0.003	
37122	< 0.01	0.01	0.05	0.12	< 0.003	
37123	< 0.01	0.02	0.06	0.16	< 0.003	
7124	0.04	0.03	0.41	0.14	0.003	
J/125	0.05	0.01	0.65	0.14	■ 0.003	
37126	0.05	0.05	1.54	0.22	< 0.003	
37127	0.01	0.01	0.20	0.06	< 0.003	
37128	0.03	0.01	0.07	0.08	< 0.003	
37129	0.06	0.08	0.25	0.36	< 0.003	
37130	0.03	0.01	0.03	0.16	< 0.003	
37131	< 0.01	< 0.01	0.06	0.06	< 0.003	
37132	< 0.01	0.01	0.07	80.0	< 0.003	
37133	< 0.01	0.03	0.07	0.08	< 0.003	
37134	< 0.01	0.03	0.04	0.02	< 0.003	
37135	< 0.01	0.01	0.07	0.02	< 0.003	
37136	0.02	0.05	0.12	0.03	< 0.003	·····
37137	0.03	0.21	0.69	0.22	< 0.003	
37138	0.06	0.07	0.55	0.12	< 0.003	
37139	0.03	0.01	0.16	0.10	< 0.003	
37140	0.03	0.01	0.11	0.08	< 0.003	
37141	0.04	0.06	0.22	0,12	< 0.003	· · · · · · · · · · · · · · · · · · ·
37142	0.04	0.05	0.35	0.22	< 0.003	
37201	0.06	0.04	0.41	0.24	< 0.003	
37202	0.04	0.03	1.15	0.24	< 0.003	
37203	0.04	0.24	0.01	4.81	0.014	
37204 .	< 0.01	0.01	0.02	0.52	0.700	
37205	< 0.01	0.04	0.02	0.06	0.020	
37206 ·				0.04	0.003	
37207				< 0.01	< 0.003	
905	· -			0.02	0.003	
- , -		······································			7.003	

REGISTERED ASSAYER. PROVINCE OF BRITISH COLUMBIA



212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221
AREA CODE: 604
TELEX: 04-352597

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO.

69932

TO:

ATTN:

TOURNIGAN EXPLORATIONS LTD.

INVOICE NO.

38992

#704, 535 Thurlow Street Vancouver, B.C.

RECEIVED

Aug. 27/80

Vancouver, B

ANALYSED

Sept. 23/30

SAMPLE NO. :	Ag Oz/Ton	Au Oz/Ton	
37209	0.24	< 0.003	
37210	0.20	< 0.003	
37211	0.01	< 0.003	
37212 ~	0.22	0.003	
37213	0.26	0.005	
37214	0.16	< 0.003	
37215	0.28	< 0.003	
37216	0.10	< 0.003	
37217-	0.14	< 0.003	
37219	0.10	0.003	



REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



CHEMEX LABS LTD.

212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 984-0221

TELEPHONE: AREA CODE:

604

TELEX:

04-352597

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 70071

Tournigan Explorations Ltd.

INVOICE NO.

39371

704 - 535 Thurlow St.,

RECEIVED

Sept. 10, 1980

Vancouver, B.C.

V6E 3L2 ATTN:

SILVER BAR PROJECT

ANALYSED

Oct. 4, 1980

37152	Ag 0.36	Au	
37151 B 37152 37153	0.36		
	0.30	<0.003	
27152	0.46	<0.003	
3/T)3	0.16	0.003	
37154	0.12	<0.003	
37155	0.26	<0.003	
37156	0.14	0.003	
37157	0.04	<0.003	
37158	0.16	0.005	
37159	0.09	0.044	
37160	0.07	0.046	
37161	0.04	0.044	
37162	0.02	<0.003	
37163	0.06	<0.003	
37164	0.06	<0.003	
37165	0.06	<0.003	
37166	- 0.92	0.003	
37167	1.22	0.003	
37168	0.86	<0.003	
37169	0.52	<0.003	
37170	1.24	<0.003	
37171	0.24	0.003	
37172	0.26	<0.003	
37173	0.51	0.070 -	
37174	. 1.01	0.014	
37175	0.32	0.003	
37176	0.30	<0.003	
37177	0.14	<0.003	
37178	0.28	<0.003	
37179	0.19	<0.003	
37180	0.08	<0.003	
37181	0.34	0.003	
37182	- 1.10	0.003	
37183 B	0.52	0.003	

REGISTENED ASSAYER, PROVINCE OF BRITISH COLUMBIA



212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: 984-0221

AREA CODE: TELEX:

604 04-352597

· ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO.

70145

To: Tournigan Expl. Ltd.,

INVOICE NO.

39578

704 - 535 Thurlow St.,

RECEIVED

Sept.16/80

Vancouver, B.C.

SILVER BAR

ANALYSED

Oct.14/80

V6E 3L2

37074

37076

37077

37078

37079 37080

ATTN: Dianne Pollack	
SAMPLE NO. :	%
SAMPLE NO.	W03
37051	0.04
37052	0.02
37053	0.02
37054	0.03
37055	0.05
37056	0.04
37057	0.04
37058	0.02
37059	0.04
37060	0.03
37061	0.03
37062	0.02
37063	0.02
37064	0.02
37065	0.01
37066	< 0.01
37067	< 0.01
37068	0.02
37069	0.01
37070	< 0.01
37071	0.02
37072	Ó.04
37073	0.04

SILVER BAR

0.03

0.04

0.06

0.03

0.02

0.01



REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE:

TELEX:

604 04-352597

. ANALYTICAL CHEMISTS

• GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

CERTIFICATE NO. 70279

TO:

Tournigan Expl. Ltd., 704 - 535 Thurlow St., INVOICE NO.

39784

Vancouver, B.C.

RECEIVED

Sept.29/80

V6E 3L2

SILVER DAL.

ANALYSED

Oct.20/80

ATTN:

Mr.J.Hembling

SAMPLE NO. :	Oz/Ton Silver	Oz/Ton Gold	
37143B	0.66	0.398	
ų.			
37144B	0.52	2.968	
+			
į .			



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEPHONE. (604)984-0221 TELEX: 043-52597

. ANALYTICAL CHEMISTS

. GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

9: Tournigan Explorations Ltd.,

704 - 535 Thurlow St.,

Vancouver+ 3.C.

V6E 3L2

CERT. # : A8010787-001-A

INVOICE # : 40388

DATE : 13-NOV-80

P.3. # : NONE

Sample	ргер	Aq	Au	······································			
aescription	code	jz/t	oz/t	•			
81931	207	0.70	<0.003				
81902	207	0.30	<0.003			- -	
81903	207	3.76	0.005				
81904	207	3 • 4 3	0.003				
31905	207	11.53	0.005	~-			
81906	207	2.46	0.003				
91907	207	1.96	0.005	***			***
31908	20 7	95.0	0.003				~~
31909	207	0.52	<0.003	~ -			~-
902 01	207	0.10	<0.003				~ -
90202	207	0.10	<0.003	The same of the sa			
90203	207	0.14	<0.003				~-
9 <u>9</u> 204	207	0.10	<0.003				~ -
90205	207	0.06	<0.003				
90206	207	2.10	<0.003	~-			
90207	207	0.16	0.003°				· • • · · · · · · · · · · · · · · · · ·
90203	207	9.08	<0.003			~ -	- -
90209	207	3.66	0.005				
90210	207	1.80	0.014				
90211	207	1.58	0.003				
70212	207	1.66	0.012	en e			
90213	207	1.61	0.010				
90214	207	4.30	0.936				
90215	207	1.45	0.005		*-		
90216	207	0.72	0.003				
90217	207	0.38	<0.003				
90213	207	2.00	0.003				
90219	207	9.40	0.005				
90220	207	0.73	0.332	·			
90221	207	0.25	0.090				
90222	207	9.18	0.005				
90223	207	0.15	0.030				
90224	207	0-12	0.003				
90225	207	0.12	<0.003				
40226	207	2.10	<0.003		~-		
9022 7	207	0.49	0.020				
90228	207	0.14	0.005		~-		
90229	207	0.16	<0.003				
90230	207	0.24	0.003	-+			
90231	207	0.36	0.003	×3 ()	_ ~~		
•				field of		<u>.</u>	

Registered Assayer, Province of British Columbia



212 BROOKSBANK AVE NORTH VANCOUVER, B.C. CANADA V7J 2C1

TELEPHONE: (604)984-0221

TELEX:

043-52597

. ANALYTICAL CHEMISTS

. GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

: Tournigan Explorations Ltd..

704 - 535 Thurlow St..

Vancouver. 3.C.

V6E 3L2

CERT. # : A8010737-002-A

INVOICE # : 40388

DATE : 13-NOV-80

P.O. # : NONE

Samole	Prep	Δg	Au				
description	ecop	oz/t	oz/t				
90232	207	0.48	<0.003				
90233	207	9.46	<0.003				
90234	297	9.26	0.003				
90235	207	0.43	<0.003				***
90236	207	9.26	<0.003				
90237	207	9.78	0.003		e an an an and an		
90238	237	0 • 44	<0.003				
90239	207	0.32	<0.003				
90240	207	0.52	<0.003				
90241	207	0.63	<0.003				
90242	207	0.44	0.003				
90243	207	0.30	<0.003				
244	207	0.24	<0.003	~ ~			
90245	207	0.24	<0.003				
10246	207	0.28	<0.003			* ~	
90247	207	0.14	<0.003				
90248	207	0.20	<0.003				
90249	207	0.11	0.010	*			
) 0250	207	9.78	0.005			+ -	

Registered Assayer, Province of oritish Columbia

MEMBER CANADIAN TESTING 4941-CIATION

DELEEN CONSULTING GEOLOGISTS LTD.

1015 - 837 W. HASTINGS STREET VANCOUVER, B.C. CANADA V6C 1C4

TELEPHONE (604) 685-5533 TELEX - 04 - 54575

CERTIFICATE

I, John L. DeLeen, of the City of Vancouver in the Province of British Columbia, hereby certify the following:

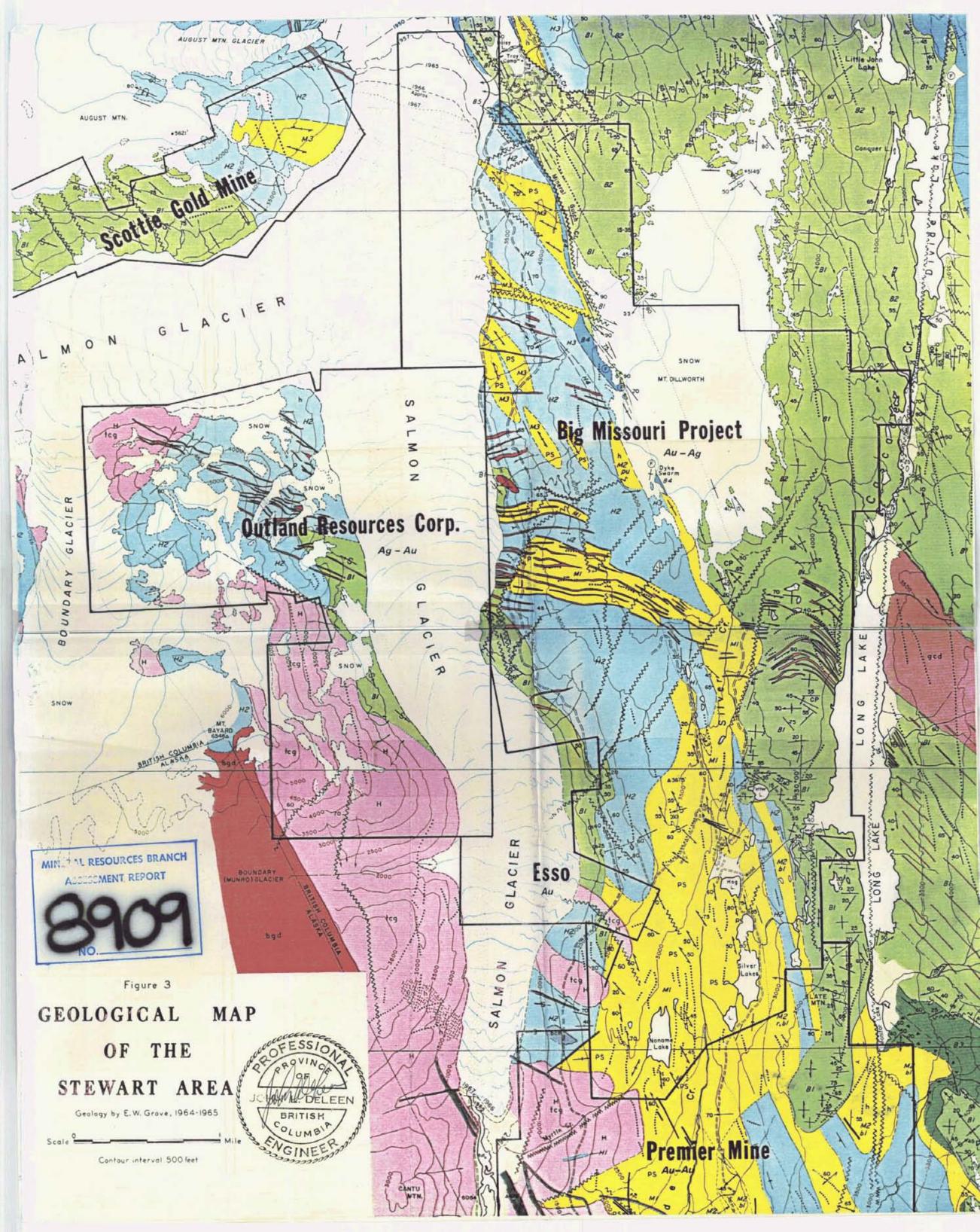
- 1. I am a geological and mining engineer with an office at 1015 837 West Hastings Street, Vancouver, B.C.
- I am a graduate of the University of British Columbia with a B.A.Sc. (1943) and M.A.Sc. (1946) degrees in Geological Engineering. In 1950 I obtained the degree of Mining Engineer from the University of California.
- 3. I have practised my profession since 1946.
- 4. I am a member of the Association of Professional Engineers of British Columbia.
- I have no interest, direct or indirect, in the Silver Bar Property, or in Outland Resources Corp., nor do I expect to receive any such interest in the future.
- 6. This report is based upon three day examinations of the property in July, August and September 1980, and upon the reports of the British Columbia Department of Mines.
- 7. I consent to the use of this report in a Prospectus or Statement of Material Facts.

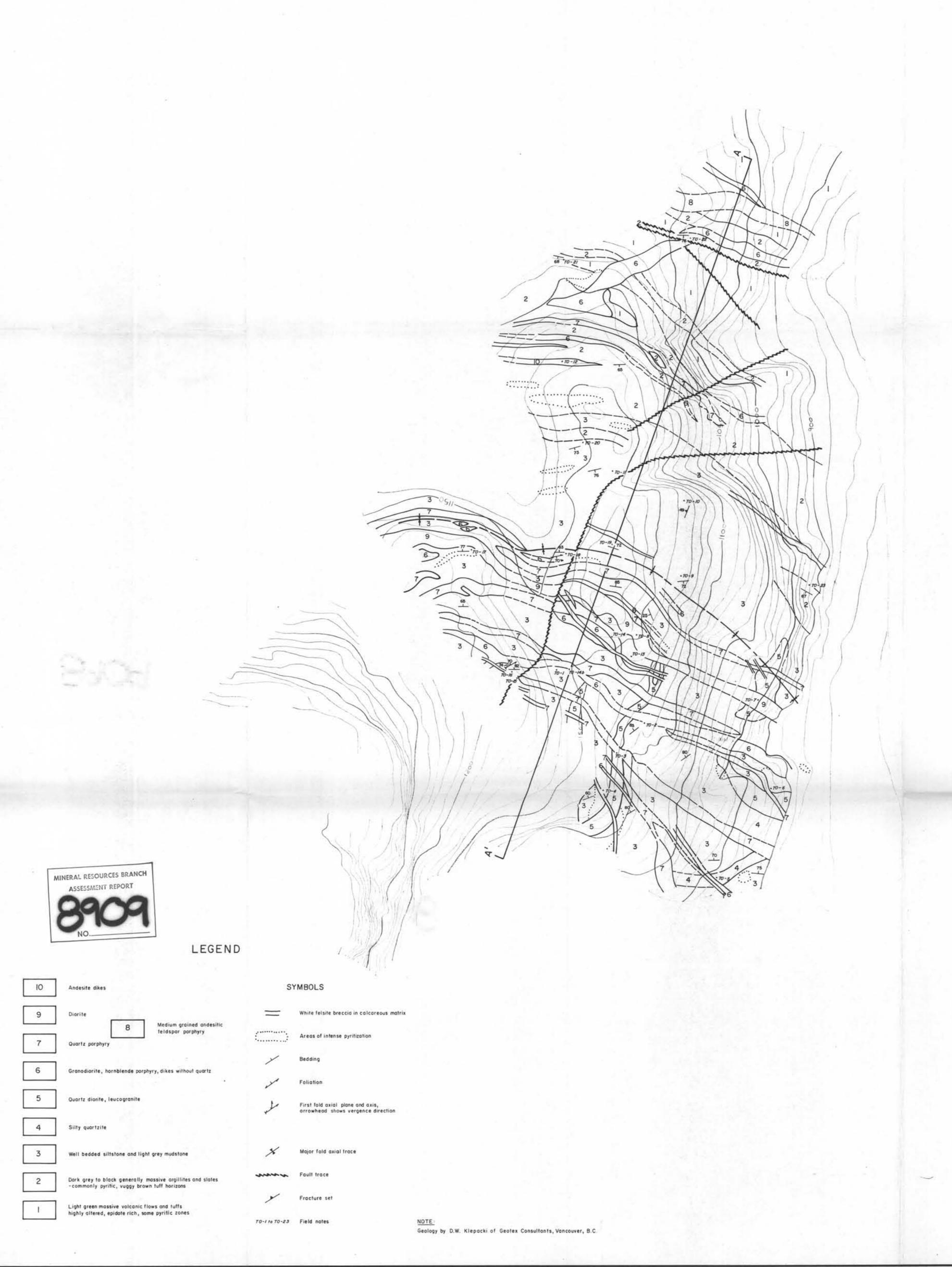
DATED at Vancouver, B.C., this 28th day of November,

1980.

JOHN L. DELEEN

John L. DeLeen, P.Eng.





OUTLAND RESOURCES CORP.
SILVER BAR PROPERTY



GEOLOGY

I: 2500

SCALE IN METRES

