

R E P O R T
 O N T H E
 1979 DIAMOND DRILLING PROGRAM
 OF THE DUNCAN LAKE PROPERTY
 SLOCAN MINING DIVISION, B.C.
 FOR
 COMINCO LTD.
 TRAIL, B.C.

Covering:

Bill 1	1445	Bill	1444	Jigs	1451
Bill 3	1447	Bill 2	1446	LD	1615
Art 2	1430	Art 1	1429	LD 1	1616
Rosco 1	2325	Art 3	1431	LD 2	1617
Rosco 4	2328	Art 4	1432	LD 3	1618
Rosco 5	2329	Art 5	1433	LD 4	1619
Rosco 7	2331	Art 6	1434	LD 5	1620
Rosco 9	2321	Alice	1657	LD 6	1621
Rosco 10	2322	Frank	1658	LD 7	1622
Rosco 11	2323	Rosco 2	2326	LD 8 Fr	5442
Rosco 12	2324	Rosco 3	2327	LD 9 Fr	5443
Rosco 13	5135	Rosco 6	2330	Art & Fr	5444
Rosco 14	5136	Rosco 8	2332	LD 10 Fr	5473
Rosco 15	5137	Ruth	1710	Ted 1 Fr	4868
Rosco 16	5138	Pat	1441	Ted 2 Fr	4869
		Jim	1442	Ted 3 Fr	4870
		Oiho	1443	Jen Fr	4700
		Marge	1448	Lakeshore	1828
		Dave	1449	Lakeshore 1	1329
		Megie	1450	Grizzly CG	14371

Located:

Lat. 50° 35', Long. 117° 10'

Owned by: Cominco Ltd., Trail, B.C.

Prepared by
 P.J. Santos, P. Eng.
 Sr. Geologist, Mine Engineering
 Trail, B.C.
 January 10, 1980

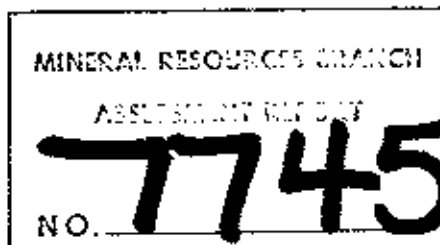


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The Duncan Lake property is located 59 km north of Kaslo in the Slocan Mining Division of British Columbia as shown on the Index Map, Plate 1, on an island connected to the east of Duncan Lake shore by a causeway.

Access is by way of Highway 31 from Kaslo to Cooper Creek (36 km), then via a logging road (Duncan Road) for 21-1/2 km to a road junction. From this junction is about 5 km of dirt road built years ago by Cominco Ltd. The claims are at an elevation of 1800' to 2200' ASL.

The property consists of 57 located claims and one crown grant, located to form a group more or less two claims wide by 25 claims long straddling the crest of an anticline of the Badshot Formation, which trends NNW. These claims are plotted on Plate 2, Claim Map of Duncan Lake Property. For assessment purposes these claims are grouped into two groups as listed on Table I (see Appendix).

The property was staked near the turn of the century. The claims were held successively by the Lardeau Lead-Zinc Company, Newmont Mining Corp., Bunker Hill Mining & Smelting Co. and Cominco Ltd. These companies performed various exploration programs in the property both on surface and underground.

During the period October 9 to November 15, 1979, Cominco Ltd. conducted a surface diamond drilling program to further test northern projections of known Pb-Zn mineralization. This program consisted of four diamond drill holes totalling 3662 feet drilled on a pattern as shown on Plate 3. The holes are B.Q. wire line (core diameter 36.5 mm). The logs, interpretation and conclusion from drilling are found elsewhere in this report. The collar elevations, inclinations and azimuths of the drill holes are listed on the drill logs attached in the appendix of this report, including assays. The drill cores for this program are stored in Cominco's Storage Shed No. 2 at Warfield, B.C.

The drilling program was supervised by P.J. Santos, P. Eng, who also logged and surveyed the drill holes. V. Pratico, Tech. Trainee, assisted in the preparation of this report and in some of the field work.

(a) Geology

The property lies on the Kootenay Arc of B.C., a structural belt of metamorphosed sedimentary rocks which trends to the northwest in the Duncan Lake area. There are eight known mineralized zones numbered 1 - 8, in the property which are located on both flanks of an anticline on the Badshot Formation that trends NNW. The geology of these deposits has been described in detail by Cominco geologists in the past, among whom are T.W. Muraro, J. Richardson and B. Mawer.

For purposes of this report, Zone 6, 7 and 8 are described briefly. Zone 6 occurs continuously on the west limb of the Duncan anticline at the chert (silica rock) and carbonate contact. The mineralization consists of pyrite, sphalerite and galena. North of the 1854 crosscut the Pb-Zn ratio is 1:2.0.

Zone 8 occurs in a coarse limestone (marble) and medium grained dolomite, located more or less at the crest of the anticline. It is discontinuous and narrow, and the Pb-Zn ratio is about 1:20.

Zone No. 7 occurs continuously on the east limb of the Duncan anticline at the carbonate and chert (silica rock) contact. The mineralization consists of pyrite, galena, and sphalerite. North of the 1854 crosscut the Pb:Zn ratio is 1:1.18.

(b) Drilling

The drilling contract was awarded to H. Allen Drilling Ltd. of Merritt, B.C. After the approval of the necessary government permit, the drilling commenced on October 9 and finished on November 15, 1979. The drilling crew consisted of the following:

Phil Whitney	- Head Driller
Billy Pattyson	- Driller
Doug Ryland	- Helper
Wes Powder	- Helper
Mrs. Doreen Whitney	- Cook

Four diamond drill holes were drilled totaling 3662 feet plus 7 feet of anchor holes. Pertinent data are listed following:

(b) Drilling - cont'd

<u>DDH No.</u>	<u>DUM 79-1</u>	<u>DUM 79-2</u>	<u>DUM 79-3</u>	<u>DUM 79-4</u>
Date Drilled	Oct 11-Nov 13/79	Oct 20-25/79	Oct 26-Nov 6/79	Nov 6-12/79
Location	Roscoe 8	Roscoe 8	Roscoe 8	Roscoe 5
Collar Ele- vation (feet)	1986.47	2061.31	1991.16	1958.30
Azimuth	062°	068°	068°	068°
Dip Test	See logs	See logs	See logs	See logs
Core dia. (mm)	36.5	36.5	36.5	36.5
Depth (feet)	1002	856	876	928
Anchor hole (feet)	0	2	2	3

All the drill cores are stored in Cominco's Storage Shed No. 2, in Warfield, B.C.

Drill hole DUM 79-1 was deepened to 1002' on November 12 and 13, 1979.

The drilling generally went well. Initial difficulties involved excessive bit wear on the silica rock (chert) which were overcome with the use of water soluble cutting oil, Shell's Dromus B being the best. The drill sites were located on the existing road to minimize bulldozer work and to minimize environmental disturbance. Anchor holes were drilled to stabilize the drill rigs. Road repairs were kept to a minimum to avoid erosion. Water was pumped from the lake using a diesel-powered pump mounted on a raft.

(b) Drilling - cont'd

The raft was necessary due to the steepness of the lake shore and the highly fluctuating water level due to the operations of the Duncan Dam. Due to good accessibility, the drillers used holiday trailers for accommodation, which they pulled to the property. For lack of room, however, P.J. Santos had to stay at Kaslo for the duration of the project. The weather was rainy at the start of the project but remained dry later. Snow fell the day after the camp was closed down. The drill cores were hauled to Trail for storage to avoid the unfortunate vandalism of most of the drill core from previous programs.

(c) Shutdown

The drilling terminated on November 14, 1979. The drill sites were cleaned up and garbage was buried near the site of DUM 79-1. Minor road repairs were undertaken, mainly to allow the tractor-trailer to enter the property without difficulty.

A loading ramp was constructed, using the John Deere tractor and the camp site was cleaned. The drill and equipment were pulled out on November 15, 1979.

The road was blocked, and no trespassing signs were posted.

(d) Results and Interpretations

The results of the drilling are described in detail on the drill hole logs (see Appendix) which include the assays of the samples taken. The drilling essentially confirmed the continuity of Zone No. 7 and Zone No. 6. Zone No. 8 as expected is the least consistent. Drill Hole No. DUM 79-2 had the best ore intersections while Drill Hole No. DUM 79-1 had the poorest. Drill Hole DUM 79-1 corkscrewed and deviated in such a way that it passed below Zone No. 7. Zone No. 6 appears to get better in thickness and grade towards the north.

III. ITEMIZED COST STATEMENT

Page No. 8

The final cost of the drilling program is as follows:

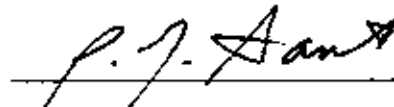
Diamond Drilling (by contract, includes wages, bonuses, food, accommodation & mobilization)	\$ 71,064.10
Mobile Radio Rentals, crystals, etc.	859.82
B.C. Telephone charges	125.53
Truck Rental (includes hauling drill core to Trail)	2,694.02
Assays	999.00
Labour (core splitting)	816.00
Expense Accounts (includes survey labour & gasoline)	2,630.43
Engineering and Geology Support (Supervision, logging report preparation, drafting)	12,053.17
Miscellaneous	79.97
	<hr/>
TOTAL	\$ 91,322.04

IV. CONCLUSIONS

The 1979 drilling program has confirmed the very good potential of finding more mineralization at the Duncan Lake property. Grades in the 5-1/2% to 6-1/2% combined Pb and Zn range over true thicknesses of two to eight meters seemed to typify the better mineralization on this property.

Grades and thicknesses of mineralization at the Duncan Lake property are marginal. However, continued efforts to try to identify a way to bring this property into production seem warranted and are recommended. These efforts should include periodic reviews of estimated mining costs and future metal prices.

Submitted By:



P.J. Santos, P. Eng.

Sr. Geologist, Mine Engineering

Endorsed for Release By:



Dr. G. Harden

Manager, Western Dist. Exploration

Cominco Ltd., Vancouver

cc: Chief Gold Commissioner, Victoria (2)

G. Harden, Exp. Western Dist., Vancouver

File, Trail

- Mawer, A.B., 1966, Geological Report Duncan Group, Cominco File, 3 pp.
- - - - - Various Cominco progress reports.
- Meyer, K.V.S, 1979, Appropriation Requisition, Duncan Lake Exploration - Phase I, Cominco Files, 4 pp.
- Muraro, T.W., 1962, Stratigraphy, structures, and mineralization at Duncan Mine, Lardeau District, B.C. MSc Thesis, Queen's University, 174 pp.
- - - - - 1960, Drill Hole logs and sections, C-31, C-32, C-33, C-34, C-35, Cominco files.
- J. Richardson, 1958, Various work proposals re: Duncan Lake property, 1958-1960, Cominco files.
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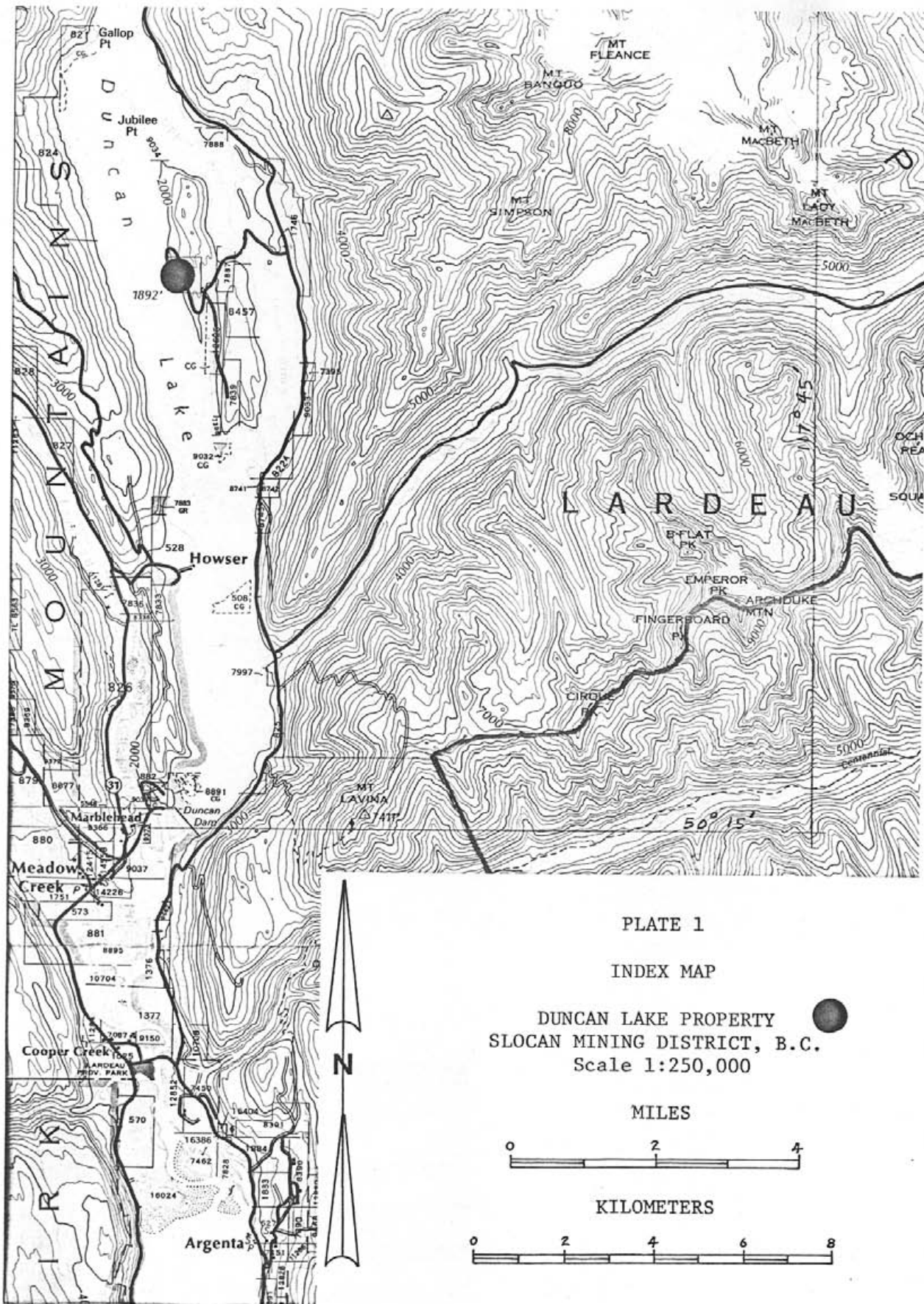


PLATE 1

INDEX MAP

DUNCAN LAKE PROPERTY
 SLOCAN MINING DISTRICT, B.C.
 Scale 1:250,000

MILES



KILOMETERS



NTS 82 K / SW

(a) Drill logs:

DUM 79-1 - (8 sheets)

DUM 79-2 - (5 sheets)

DUM 79-3 - (6 sheets)

DUM 79-4 - (7 sheets)

(b) Table of claims, Duncan Lake Property

(c) Certificate of Author's Qualifications

Scale
Colour Plot
& Dip

Drill Hole Record



Property DUNCAN LAKE District SLOCAN Hole No. DM 79-1 861'
 Commenced October 11, 1979 Location Duncan lake, B.C. Tests at 100', 201', 300', 661' Hor. Comp.
 Completed November 13, 1979 Core Size BQ wireline Corr. Dip Vert. Comp.
 Co-ordinates Lat. 35185.19 Dep. 4753.36 True Brg. 068° Logged by P.J. Santos
 Objective To test zone 7 N of shaft % Recov. 99.3 Date November 19, 1979

Footage From	To	Description	Sample No.	Length	Analysis			Elev.	Length	Hole No. 79-1	Sheet 1
					Pb	Zn	Fe				
		Casing, <u>BW to 13'</u> , hole collared near top.									
0	6	No core, overburden.									
6	84	Blue grey to white sericitic silica rock (chert), banded (grey & white), banding @ 60° w/CA. Pyrite grains along banding, minor brecciation w/calcite fillings, white quartz component irregular in shape & thickness. Foliation (banding) variable 40°-60° w/CA, drayfolded. Calcareous matrix.									
84	150	Blue grey to white sericitic silica rock, banding @ 40° w/CA. Thin pyrite bands along foliation, irregular masses of white quartz, few calcite veins. Essentially similar to above section. Nebulous graphitic banding. Rock is massive and dense with calcareous matrix.									
150	246	Blue grey, thinly foliated silica rock. White quartz thin bands more abundant than previous section banding @ 40° w/CA. Veinlets of pyrite, also along foliation, abundant pyrite @ 183'-203', 224'-234'. Calcareous matrix.									
246	416	Blue grey to white sericitic silica rock, calcareous matrix. More white qtz than previous section. Nebulous foliation @ 50 w/CA. Fairly abundant thin pyrite bands, white quartz vein @ 275', 2" thick, pyrite also as diss. Foliation @ 40° w/CA @ 365'. Abundant pyrite bands @ 383'-392', pyrite & galena in 1" qtz vein at 401'.	10566	10	0.03	102.80	385	=	395		
			10567	5	0.01	0.23	1.12	395	=	400	
			10568	1	0.32	0.37	0.73	400	=	401	
			10569	5	0.04	1.35	1.68	401	=	406	
			10570	10	0.01	0.18	1.13	406	=	416	
416	433	Blue grey, thinly foliated silica rock, minor thin pyrite bands, calcareous matrix, white calcite stringers along foliation.	10571	10	0.04	0.20	0.73	416	=	426	
			10572	10	Tr	0.13	0.73	426	=	436	
433	463	Blue grey silica rock w/abundant pyrite bands, calcite stringers along foliation; 3" thick pyrite band w/calcite @ 434', 1" thick pyrite band @ 450', 2" thick pyrite band @ 451'. Sheared & contorted w/pyrite vein fillings @ 451'-463'.	10573	5	0.25	0.66	0.81	436	=	441	
			10574	5	0.27	0.48	0.19	441	=	446	
			10575	5	0.66	0.68	0.61	446	=	451	

Scale

Colour Photo
& Dip

Drill Hole Record



Property	District	Hole No.	DUM 79-1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dp	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis			Collar Dip	Elev.	Length	Hole No. 79-1 Sheet 2
					Pb	Zn	Fe				
463	494	Blue grey, fine sandy, thinly foliated, calcareous silica rock. Calcite stringers, thin bands of pyrite uniformly distributed along foliation. Heavily pyritized (semi-massive) @ 490'-494', finely diss. sphal. & galena in bands @ 490'-493'.	10576	5	0.140	257.05	451	-	456		
			10576	5	0.060	274.76	456	-	461		
			10578	5	0.060	178.34	461	-	466		
494	497	Fault zone - light green, crushed silica rock, fault line @ 10° w/CA, 1/2 pyrite band in zone @ 10° w/CA.	10579	10	0.020	112.01	466	-	476		
			10580	10	Ir 0.171	96	476	-	486		
497	534	Blue grey dolomite, silicified, vague banding, brecciated in places w/calcite healing. Patch of amygdaloidal andesite @ 519, dike (1" @ 20° w/CA) of amygdaloidal andesite @ 521'.	10581	3	0.090	537.22	486	-	489		
			10582	5	3.258	0.148	489	-	494		
534	536	Blue grey, fine, granular limestone.	10583	5	0.030	283.36	494	-	499		
536	554	Dark grey to blue grey, fine grained dolomite.	10584	5	0.020	123.69	499	-	504		
554	576	Light grey, fine grained limestone, partly silicified, dense, w/irregular masses of white quartz.	10585	10	Ir 0.022	185	504	-	514		
576	593	Light grey, fine grained quartzite, irregular masses of white quartz and white quartz veins. Quartz vein has veinlets of pyrite, veins @ 25° w/CA. Quartz vein, 6" true thickness.									
593	599	Purplish grey, amygdaloidal, porphyritic "andesite dyke", containing circular rods of silica as phenocryst. Ground mass is fine biotite, contact @ 20° w/CA.									

Scale

Color Photo
& Maps

Drill Hole Record



Property		District	Hole No.	DUM 79-1							
Commenced	Location	Tests at	Hor. Comp.								
Completed	Core Size	Corr. Dip	Vert. Comp.								
Co-ordinates		True Brg.	Logged by								
Objective		% Recov.	Date								
Footage From	To	Description	Sample No.	Length	Analysis	Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 79-1 Sheet 3
599	608	Light grey, very fine grained dolomite, silicified in places, white quartz vein @ 606'-607', sharp lower contact @ 30° w/CA.									
608	610	Dark grey, porphyritic andesite dyke. Short cylindrical amydgules. Sampled for petrography @ 609'									
610	626	Light grey, sericitic dolomite, thinly foliated, foliation @ 45° w/CA. Thin masses of white and clear quartz @ 615'-620', highly sericitic, brecciated @ 620-626, diss. pyrite, cream colored @ 612'-623', intraclasts. Silicified, grades to quartzite in places.									
626	631	Grey and cream, vaguely banded, silicified dolomite, brecciated minor diss. pyrite, intraclasts									
631	650	Light grey to almost cream, fine sandy quartzite, thinly banded (red) @ 642'-649 w/sericite, pyrite along foliation, partly silicified (thin bands of white quartz), foliation @ 20° w/CA, Intraclasts @ 650'-656'.									
650	702	Light grey, very fine grained dolomite vaguely banded in places, intraclasts, blotchy bedding, some white quartz veins, white gougy intervals @ 692'-695'. Increasingly sericitic towards base of section. Silicified.									
702	747	Greyish brown, micaceous schistose quartzite, foliation @ 20° w/CA. Black phyllite intervals @ 726'-726.5 and 741'-742'. Contorted foliation @ 740'-745', fault gouge @ 742'. Dense, uniform.									

Scale

Color
& Dip

Drill Hole Record



Property	District	Hole No.	DUM 79-1
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis			Elev.	Length	Hole No. 79-1 Sheet 4
					Pb	Zn	Fe			
747	791	Dark grey to greenish black, sericitic, argillaceous quartzite, fair diss. of pyrrhotite. Foliation @ 40° w/CA, brecciated w/white quartz healing @ 788'-791'. Contorted foliation.								
791	806	Blue grey to greenish grey, thinly foliated sericite schist interbedded w/ thin beds of sericitic dolomite. Some quartz veining, foliation @ 20° w/CA.								
806	829	Grey, coarse crystalline limestone, fine grained bands. Sericitic bands @ 25°-40° w/CA @ 821'-827'. Dolomitic in part, dark brown distinct bands.								
829	848	Mineralized, white crystalline limestone. Coarse pyrite blebs along vague lineation. Wavy lines of brown, coarse to fine sphalerite @ 830'-832', fine diss. Sphalerite w/fine pyrite along banding @ 836'-837', coarse pyrite & sphalerite @ 839'-840'.	10564	5	Tr	Tr	0.02	824	-	829
			10601	5	0.050	768	98	829	-	834
			10602	6	0.082	707	83	834	-	840
848	864	White, crystalline, (marble) limestone, dense, uniform.	10565	5	0.020	202	63	840	-	845
864	894	White, fine crystalline dolomite w/grey blotches & vague, close spaced grey banding, intraclasts. Dark colored (grey) at midsection.	10560	10	Tr	0.02	01	879	-	889
			10561	5	Tr	0.06	62	889	-	894
894	930	Light grey, medium grained limestone, sericite bands @ 50° w/CA. Dense, uniform. Sericitic @ 900'-920'.	10562	5	Tr	0.15	29	894	-	899
			10563	5	Tr	0.07	29	899	-	904

Scale
Colour Print
& Draw

Drift Hole Record



Property _____ District _____ Hole No. **DUM 79-1**
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Carr. Dip _____ Vert. Comp. _____
 Co-ordinates _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Footage From To	Description	Sample No.	Length	Analysis			Cham	T Brg.	Collar Dip	Elev.	Length	Note No. 79-1 Sheet 5
				Pb	Zn	Fe						
930 939	Grey, fine grained dolomite, dense, thin-bedded, brecciated.	10551	10									
939 972	Blue grey, medium to fine grained, silicified limestone, interbedded fine & medium grained beds. Internal sed. textures (graded bedding). Veinlets of sphalerite @ 939'-949'... Abundant pyrite w/some sphalerite @ 949'-972'	10552	5	0.020	72	07				939		944
		10553	5	0.030	78	07				944		949
		10554	5	0.180	48	69				949		954
		10555	5	0.080	46	70				954		959
		10556	5	0.010	05	01				959		964
		10557	5	0.330	80	92				964		969
972 1002	Blue grey, very fine grained, dense, thin bedded silica rock, fractured, bands of pyrite, white quartz vein healing of fractures, abundant white quartz along foliation... foliation @ 40° w/CA, white calcite also along foliation. EOM @ 1002' (Hole deepened from 949' - 1002')	10558	5	0.360	65	71				969		974
		10559	10	Tr	0.130	50				974		984

[Handwritten signature]

Scale

Colour Photo
& Data

Drill Hole Record



Property	District	Hole No. 79-1	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Curr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Claim Analysis	T Brg.	Collar Dip	Elev.	Length	Hole No. 79-1 Sheet 6
		Tests for hole azimuth and dip done at the following:								
			True	Azimuth						
	Collar	062°	-57°	(by Brunton)	062°					
	100'	066°	-60°	]	064°					
	201'	042°	-56°	]	051°					
	300'	061°	-55°	]	062°					
	661'	064°	-54°	]	064°					
	861'	065°	-51.5°	]	066°					
		Note:								
		1. Shell DROMUS water soluble cutting oil and Esso Kutwell cutting oil used.								
		2. Longyear impregnated bits used on silica rock = 40'/bit w/o cutting oil, 120'/bit w/cutting oil.								
		3. Mesdrill stone bits used on dolomite, limestone & schist.								
		4. Logged for temperature by J. Hamilton to 800'.								
		<i>P. J. Adams</i>								

CORE RECOVERY SHEET



WELL NO. DUM 79-1

SHEET NO. 7

RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY
0 - 13	casing	208 - 217	9	440 - 443½	3	666 - 676	10
0 - 6	no core	217 - 226	9	453½ - 463½	10	676 - 696	10
6 - 12	3	226 - 236	10	463½ - 473½	-10	686 - 696	10
12 - 20	7½	236 - 246	10	473½ - 475	1½	696 - 701	10
20 - 27	7	246 - 256	10	475 - 484½	9.5	701 - 711	10
27 - 31	4	256 - 266	10	484½ - 495	9.5	711 - 720½	9½
31 - 36	5	266 - 276	9	495 - 505½	10	720½ - 731	10
36 - 46	10	276 - 286	10	505½ - 516	9.5	731 - 736	6
46 - 53	7	286 - 296	-10	516 - 526	1.0	736 - 742	6
53 - 62	9	296 - 306	-10	526 - 536	10	742 - 753	10
62 - 66	10	306 - 316	-7	536 - 546	10	753 - 758	5
66 - 76	10	316 - 325	-4 (TNL)	546 - 556	10	758 - 759	1
76 - 86	10	325 - 335	-10	556 - 560	3	759 - 766	7
86 - 96	9	335 - 341½	6	560 - 566	6	766 - 776	10
96 - 104	8	341½ - 346	3½	566 - 576	10	776 - 786	10
104 - 114	10	346 - 356	10	576 - 586	10	786 - 796	10
114 - 124	10	356 - 365	9	586 - 596	10	796 - 806	10
124 - 134	10	365 - 375	9	596 - 606	10	806 - 816	10
134 - 144	10	375 - 385	10	606 - 607	.6	816 - 826	10
144 - 154	10	385 - 396	10	607 - 616	9	826 - 827	1
154 - 164	10	396 - 406	10	616 - 626	10	827 - 829	2
164 - 174	10	406 - 416	10	626 - 630	4	829 - 840	10
174 - 184	10	416 - 426	10	630 - 650	10	840 - 846	10
184 - 194	10	426 - 433	6	640 - 650	10	846 - 856	10
194 - 201	9	433 - 435	2	650 - 656	6	856 - 866	10
203 - 208	9	435 - 440½	4½	656 - 666	10	866 - 870½	6½

Scale

Colour Photo
& Maps

Drill Hole Record



Property DUNCAN LAKE District SLOCAN Hole No. DUM 79-2
 Commenced October 20, 1979 Location Duncan Lake, B.C. Tests at 291', 411', 601', 851' Hor. Comp.
 Completed October 25, 1979 Core Size 80 Wireline Corr. Dip _____ Vert. Comp.
 Co-ordinates Lat. 34790.49, Dep. 4943.82 True Brg. 068° Logged by P.J. Santos
 Objective Test Zone 7 north of shaft % Recov. 94.8 Date October 25, 1979

Footage From	To	Description	Sample No.	Length	Analysis			Elev.	Length	Hole No.	Sheet
					Pb	Zn	Fe				
0	5	Casing, cemented down to 12'. Hole collared in silica rock.									
5	83	Blue grey, dense silica rock, slightly foliated, foliation @ 30° w/CA. White quartz @ 19'-22' & 44'-46' filling brecciated section. Pyrite along foliation, irregular masses of white quartzite roughly along foliation. Calcareous matrix.									
83	126	Blue grey, dense silica rock w/calcareous matrix, essentially similar to above section. Relatively more pyrite bands along foliation, white quartz masses @ 83'-90', foliation @ 55° w/CA.									
126	290	Blue grey, dense silica rock, uniformly foliated, much pyrite bands along foliation, occasional 1/2 inch white quartzite veins. Some pyrite bands are 1/2 inch thick sub-parallel to foliation. Quartz-healed brecciation along section. Foliation @ 60° w/CA @ 242', foliation wavy. Calcareous matrix.	10603	5	0.01	0.49	0.78	295	-	300	
			10640	9	0.01	0.37	0.56	300	-	309	
			10604	5	0.01	0.98	0.67	309	-	311	
			10641	2	0.01	0.39	0.56	314	-	316	
			10605	5	0.89	2.67	5.04	316	-	321	
290	400	Blue grey, closely foliated, dense silica rock. More white quartz bands than previous sections, scattered sphalerite w/pyrite bands @ 296' and 309'. Galena diss. bordering Qtz. & pyrite @ 316'-317', pyrite & sphalerite along foliation @ 326'-328', milky quartz @ 351'-352'; "semi-massive" shalerite w/pyrite @ 362', 1/8" sphalerite band @ 366'. Foliation @ 50° w/CA, diss. galena & sphalerite @ 394.5'-396.5'. Calcareous matrix.	10642	5	0.01	0.42	1.12	321	-	326	
			10606	5	0.03	1.16	1.51	326	-	331	
			10607	4	0.01	0.47	1.45	362	-	331	
			10749	10	0.02	0.45	1.06	384.5	-	394	
400	426	Blue grey, foliated dense silica rock. Heavily mineralized w/pyrite @ 415'-418' w/minor galena @ 415', white to light grey quartz also abundant. Calcareous matrix.	10608	2	2.30	4.60	16.96	394.5	-	326	
			10646	10.5	0.16	0.75	2.01	396.5	-	407	
			10647	6	2.75	1.05	1.86	407	-	411	
			10648	13	0.04	0.17	...	413	-	421	

Scale

Colour Plot
& Maps

Drill Hole Record



Property	District	Hole No.	DUM 79-2
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis				Collar Dip	Elev.	Length	Hole No. 79-2 Sheet 2
					Pb	Zn	Fe	Ag				
426	443	White, coarse crystalline limestone, heavily mineralized w/sulfides. Massive pyrite @ 426'-441', sphalerite in wavy bands in varying amount @ 429'-441'.	10609	5	3.30	5.45	6.90			426	431	
			10610	5	3.45	5.02	9.09			431	436	
			10611	5	3.05	7.65	9.59			436	441	
443	458	Grey, medium crystalline dolomitic limestone, vaguely banded, sericitic. Abundant pyrite bands, sphalerite crystals @ 445'-455'.	10643	7	0.01	0.18	3.35			441	448	
			10644	8	Tr.	0.02	2.80			448	456	
458	525	Light grey, fine grained dolomite, silicified, brecciated w/abundant quartz healing. Pyrrhotite-pyrite irregular bands following foliation @ 491'-492', quartz veins @ 480'-484', 494'-495', 501'-502', selvedges, diss. & veins of brown sphalerite @ 509'-511', 519'-521'.	10612	1	0.10	0.22	3.69			455	456	
			10613	2	Tr.	0.01	2.46			509	511	
			10645	8	Tr.	0.03	1.34			511	519	
			10614	2	0.01	0.38	0.90			519	521	
525	602	Greenish grey, thinly foliated sericite schist. Uniform, minor diss. pyrite. Dragfolded, foliation @ 40° w/CA. Black & contorted @ 591'-595'. Abundant pyrrhotite veinlets & diss. @ 591'-602' w/trace of chalcopyrite, chloritic towards base. Possible tetrahedrite (?) w/pyrrhotite.	10615	5	Tr.	0.01	4.76	0.02		591	596	
			10616	5	Tr.	0.02	4.03	0.01		596	601	
			10617	5	Tr.	0.01	3.92	0.01		601	606	
			10618	5	0.03	0.16	4.14	0.03		606	611	
602	677 1/2	Grey, dolomitic limestone, fine to medium grained, intensely brecciated but rehealed. Veinlets & diss. of pyrite & pyrrhotite throughout, selvedges & fine diss. of sphalerite @ 617'-624'. Vague foliation @ 50° w/CA, minor quartz bands along bedding. Bedding at 80° w/CA @ 658'.	10619	5	0.04	1.00	5.70	0.04		611	616	
			10620	5	0.01	1.64	3.58	0.02		616	621	
			10621	3	Tr.	0.45	1.01	0.05		621	624	
			10797	10	Tr.	0.02	0.22			661	671	
677 1/2	696	Grey & white crystalline limestone exhibiting internal sedimentation texture (local grading of beds draped over previous surface of cavity), photos taken. Well mineralized w/sphalerite & pyrite & marcasite @ 667-1/2'-689'. Sphalerite & marcasite follow local grading of internal sediments. Quartz vein @ 683'-684'. Bedding @ 60° w/CA.	10748	6.5	0.01	0.05	0.73			671	677.5	
			10622	5.5	0.37	2.70	10.07			677.5	683	
			10623	5	0.36	4.00	6.04			683	688	
			10624	5	0.06	0.25	1.12			688	693	
			10625	9	0.01	0.13	1.34			693	702	

Scale

Color Plot
& Dip

Drill Hole Record



Property		District	Hole No. DUM 79-2		Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 79-2	Sheet 3
Commenced		Location	Tests at		Hor. Comp.						
Completed		Core Size	Corr. Dip		Vert. Comp.						
Co-ordinates		True Brg.		Logged by							
Objective		% Recov.		Date							
Footage From	To	Description	Sample No.	Length	Analysis						
					Pb	Zn	Fe				
696	712	Grey dolomitic limestone exhibiting internal sedimentation texture (locally graded bedding draped over outline of cavity & boulders inside cavity). Sphalerite & pyrite also exhibit graded bedding @ 702'-713', photos taken. Bedding @ 80° w/CA.	10626	5	0.24	4.10	7.95		702	707	
			10627	6	0.07	2.30	6.71		707	713	
712	743	Dark grey, dense sericite schist, foliation @ 40° w/CA dolomitic limestone interval @ 721'-727' w/graded bedding.									
743	785	Grey, dolomitic limestone exhibiting internal sedimentation textures (graded bedding draped over outline of cavity). Pyrite & sphalerite following graded bedding. Remainder of cavity completely filled w/white calcite, photos taken. Bedding orientation variable.	10628	5	0.01	0.11	1.23		743	748	
			10629	5	0.08	1.38	3.92		748	753	
			10630	5	0.02	0.82	1.12		753	758	
			10631	5	0.16	2.90	3.80		758	763	
785	793	Blue grey silica rock exhibiting internal sedimentation texture, heavily pyritized. Bedding orientation variable. Calcareous matrix.	10632	5	1.89	5.44	12.88		763	768	
			10633	5	1.45	6.50	14.22		768	773	
793	856	Dark grey, dense silica rock (chert), uniformly bedded, minor pyrite along bedding, foliation @ 45° w/CA, closely and uniformly bedded (foliated) towards base of section. Heavily pyritized to 808'. Calcareous matrix.	10634	5	2.29	2.90	0.18		773	778	
			10635	5	1.80	2.38	0.88		778	783	
			10636	5	0.98	1.28	0.00		783	788	
		EOH @ 856'	10637	5	0.59	1.24	5.67		788	793	
		NOTE: Longyear impregnated bits used on silica rock.	10638	5	0.78	0.49	6.94		793	798	
		Longyear stone bits used on dolomite, limestone & schist.	10639	16	0.18	1.12	6.71		798	806	
		Gulf cutting oil & Shell Dromus cutting oil used throughout.									
		Anchor hole drilled (2') to stabilize drill set-up.									

P. J. Adams

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No. 79-2	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Passage
From To

Description

Sample
No.

Length

Claim
Analysis

T Brg.

Collar Dip

Elev.

Length

Hole No. 79-2 Sheet 4

Tests for hole's azimuth and dip were done at the following:

	Azimuth	Dip	
Collar	068°	-55° (by Brunton)	
291'	063°	-50°]	
411'	064°	-47°](by Sperry-Sun Single Shot	
601'	059°	-42°] Instrument)	
851'	067°	-41°]	

P. J. Am

True Azimuth
068°
065°
066°
062°
068°

CORE RECOVERY SHEET



HOLE NO. 79-2

SHEET NO. 5

RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY
0 - 5	No core recovered	226 - 236	10	474 - 484	10	706 - 716	10
5 - 15	8½	236 - 246	10	484 - 494	10	716 - 726	10
15 - 18	3	246 - 256	10	494 - 503	9	726 - 730	4
18 - 26	8	256 - 266	10	503 - 513	10	730 - 738½	8½
26 - 32	6	266 - 276	10	513 - 523	10	738½ - 746	7
32 - 43	11	276 - 286	9½	523 - 534	9	748 - 756	10
43 - 53	10	286 - 296	10	534 - 544	10	756 - 766	10
53 - 63	10	296 - 306	9½	544 - 546	1½	766 - 776	10
63 - 73	10	306 - 316	10	546 - 553	6	786 - 796	10 *
73 - 83	10	316 - 326	10	553 - 562	9	796 - 806	10
83 - 88	5	326 - 336	10	562 - 566	3	806 - 808	1½
88 - 95	7	336 - 343	7	566 - 573	6	808 - 810	1½
95 - 106	10	343 - 353	10	573 - 579	5½	810 - 817	7
106 - 116	10	353 - 361	9	579 - 589	10	817 - 826	9
116 - 126	10	361 - 364	3	589 - 599	10	826 - 836	10
126 - 136	10	366 - 376	9	599 - 609	10	836 - 845	9
136 - 146	10	376 - 386	10	609 - 619	10	845 - 848	3
146 - 149	3	386 - 393½	7	619 - 630	10	848 - 856	8
149 - 156	7	393½ - 402½	9	630 - 640	10	EQH #856	
156 - 166	10	402½ - 413	10	640 - 650	10		
166 - 176	10	413 - 423	10	650 - 660	10		
176 - 186	10	423 - 433	10	660 - 670	10		
186 - 196	10	433 - 443	10	670 - 676	5½		
196 - 206	10	443 - 453½	10	676 - 686	10		
206 - 216	10	453½ - 463½	10	686 - 696	10		
216 - 226	10	463½ - 474	9½	696 - 706	10		

Scale

Color Photo
& 1:2.5

Drift Hole Record



Property DUNCAN LAKE District SLOCAN Hole No. DUM 79-3
 Commenced October 26, 1979 Location Duncan Lake, B.C. Tests at 251', 371', 521', 741' Hor. Comp. _____
 Completed November 6, 1979 Core Size 80 Wireline Corr. Dip _____ Vert. Comp. _____
 Co-ordinates Lat. 34204.75 Dep. 5002.95 True Brg. 068° Logged by P.J. Santos
 Objective To test Zone 7 north of shaft % Recov. 97.2 Date November 9, 1979

Footage From	To	Description	Sample No.	Length	Analysis			Elev.	Length	Hole No.	Sheet
					Pb	Zn	Fe				
		Hole collared in bedrock (silica rock), casing cemented @ 2'-11', anchor hole drilled, 2' BW casing.									
0	7	No core recovered.									
7	177	Blue grey, dense silica rock, foliation @ 60° w/CA @ 25', irregular masses of white quartz along foliation. Scattered pyrite bands, abundant white quartz @ 61'-65', 74'-76', sandy textured @ 64'-70'. Uniformly banded from 80', foliation @ 40° w/CA @ 120'.									
177	274	Blue grey, dense silica rock, closely & uniformly foliated. Minor thin bands of pyrite, white quartz vein @ 181'-182', 200' (4"), 215' (4"), 217'-223', foliation @ 60°, w/CA. Large pyrite crystals in quartz vein @ 200'. Sericitic @ 235'-252'.									
274	388	Blue grey silica rock, dense, uniformly foliated fairly abundant pyrite bands, Yellow sphalerite w/pyrite bands @ 311'-319' w/minor galena. Quartz veins @ 313'-315', foliation @ 50° w/CA - thinly foliated & contorted @ 316'-340', abundant white quartz component at 361'-367'. Reddish brown sphalerite pyrite bands @ 378'-388', faulted @ base w/gouge and some leaching, fault plane @ 7° w/CA.	10649	10	0.16	1.36	0.56	274	-	284	
			10650	10	0.61	3.10	2.24	284	-	294	
			10651	10	0.09	0.32	0.95	294	-	304	
			10652	7	0.02	0.65	1.34	304	-	311	
			10653	5	2.45	2.01	4.14	311	-	316	
			10654	5	1.40	1.30	1.40	316	-	321	
388	414	Dark grey, siliceous dolomite, highly mineralized w/pyrite, minor yellow sphalerite @ 393'-394', brown sphalerite @ 412'-413'. Faulted @ 400', fault plane @ 20° w/CA, foliation @ 50° w/CA.	10655	10	1.38	2.10	1.85	321	-	331	
			10656	10	0.19	1.64	1.57	331	-	341	
			10657	10	0.01	0.21	0.67	341	-	351	
414	442	Dark grey to almost black sericite schist, veined w/quartz in places, dense. Foliation @ 50° w/CA, brecciated w/quartz healing @ 436'-442'.	10658	10	0.13	1.52	3.69	351	-	361	
			10659	10	0.09	0.78	1.45	361	-	371	

Claim
RCSOE 8T Brg.
068°Collar Dip
-43°Elev.
1991.16Length
876'

Hole No. 79-3

Sheet 1

Scale

Colour Plot
& Dip

Drill Hole Record



Property	.....	District	.....	Hole No.	DUM 79-3	Hor. Comp	.....
Commenced	.....	Location	.....	Tests at	.....	Vert. Comp.	.....
Completed	.....	Core Size	.....	Corr. Dip	.....	Logged by	.....
Co-ordinates	.....			True Brg.	.....	Date	.....
Objective	.....			% Recov.	.....	

Footage From	To	Description	Sample No.	Length	Analysis			Collar Dip	Elev.	Length	Hole No. 79-3 Sheet 2
					Pb	Zn	Fe				
			10660	7	0.034	0.002	80.371				378
			10661	5	0.043	3.354	4.48378				383
			10662	5	0.027	1.388	8.78383				388
			10663	5	0.132	2.301	1.02388				393
			10664	5	0.893	0.007	7.69393				398
			10665	5	3.433	3.202	1.72398				403
			10666	5	7.543	3.907	1.13403				408
			10667	5	2.704	3.015	79408				413
			10668	3	0.720	0.695	0.04413				416
442	485	Light grey, uniformly & closely foliated, fine grained dolomite, sericitic. Foliation @ 50° w/CA.									
485	559	Light grey to white, fine to medium crystalline, dolomitic in part, dense, vaguely banded limestone. Heavy pyrrhotite-pyrite (6") @ 525', dark grey argillite band @ 544'-549' quartz veins @ 531'-532', white calcite veins @ 549'-553', fractured (faulted?) @ 553.5'.									
559	584	Light greenish grey, thinly and uniformly foliated sericite schist.									
584	604	Light grey, fine grained, dolomitic limestone, white & medium grained in part. Some quartz veins (1"-2" thick).									
604	611	Light yellowish brown, medium grained quartzite w/distinct red banding @ 35° w/CA.									
611	623	Light grey, medium grained dolomitic limestone. Intraclasts, flattened blotchy bedding, quartz-healed fractures @ 620'-623', minor diss. pyrite.									
623	640	Greenish grey and grey, thinly foliated schist. Contorted @ 625'-630', foliation @ 70° w/CA in rest of section.									

Scale

Colour Photo
& Data

Drill Hole Record



Property	District	Hole No.	DUM 79-3	Hor. Comp.
Commenced	Location	Tests at		Vert. Comp.
Completed	Core Size	Corr. Dip		Logged by
Co-ordinates		True Brg.		Date
Objective		% Recov.		

Footage From	To	Description	Sample No.	Length	Analysis			Elev.	Length	Hole No. 79-3 Sheet 3	
					Pb	Zn	Fe				
640	649	White, medium grained limestone. Quartz-healed fractures, minor diss. pyrite.									
649	655	Green sericite schist, soft. Minor grey quartz veins, contorted bedding.									
655	694	Dark grey sericite schist, contorted bedding. Some thin bands of pyrrhotite-pyrite following bedding. Quartz vein @ 683'-684', possible yellow sphalerite @ 684'-685'.	10669	7	Tr	0.01	4.59	677	-	684	
			10670	4	Tr	0.01	5.15	684	-	688	
			10671	6	Tr	0.01	4.48	688	-	694	
694	716	Grey and white, medium crystalline limestone, thickly banded w/dark grey layers, diss. fine galena (?). Sericitic @ 714'-716'.	10672	10	Tr	Tr	1.45	694	-	704	
			10673	10	Tr	Tr	1.23	704	-	714	
716	726	White, fine to medium grained limestone, uniform. Thin band of brown sphalerite @ 724'.	10674	5	Tr	0.03	2.80	714	-	719	
			10675	5	Tr	0.05	1.57	719	-	724	
726	787	Grey, medium to fine dolomite, abundant blotchy bedding, intraclasts. Pyrite w/brown sphalerite @ 757'-783' (as fracture fillings). Banding @ 50° w/GA. White calcite vein fillings @ 774'-783'.	10676	5	Tr	0.21	0.90	724	-	729	
			10677	10	Tr	0.02	0.45	729	-	739	
			10678	10	Tr	0.03	0.78	739	-	749	
			10679	5	Tr	0.03	0.78	749	-	754	
			10680	5	Tr	0.08	1.12	754	-	759	
			10681	5	Tr	0.09	0.45	759	-	764	
			10682	5		0.02	0.07	0.56	764	-	769
			10683	5		0.03	0.24	1.12	769	-	774
			10684	5		0.01	1.28	1.45	774	-	779
			10685	5	Tr	0.13	1.12	779	-	784	
			10686	5	Tr	0.08	1.34	784	-	789	

Scale

Colour Plot
& Dip

Drill Hole Record



Property		District	Hole No.	DUM 79-3							
Commenced	Location	Tests at	Hor. Comp.								
Completed	Core Size	Corr. Dip	Vert. Comp.								
Co-ordinates		True Brq.	Logged by								
Objective		% Recov.	Date								
Footage From	To	Description	Sample No.	Length	Analysis			Collar Dip	Elev	Length	Hole No. 79-3 Sheet 4
					Pb	Zn	Fe				
787	798	Light grey to white, medium crystalline limestone. Half inch band of brown sphalerite @ 789'.	10687	10	Tr	0.04	1.18	789	-	799	
			10688	6	Tr	0.03	0.62	799	-	805	
798	811	Light grey banded w/dark grey, dolomitic limestone, fine to medium grained, intraclasts. Bands of brown sphalerite @ 805', bands of sphalerite w/pyrite @ 807'-808', abundant galena, sphalerite & pyrite @ 810'-811', silicified towards base. Foliation @ 70° w/CA.	10689	5	5.40	2.95	5.95	805	-	810	
			10690	5	1.22	0.56	6.49	810	-	815	
			10691	5	0.21	1.64	6.15	815	-	820	
			10692	10	0.01	0.36	0.78	820	-	830	
811	826	Blue grey, medium grained, thinly banded silica rock w/bands of massive pyrite (1"-2"). Foliation @ 50° w/CA.	10693	10	Tr	0.03	0.67	830	-	840	
826	876	Blue grey, fine grained, thinly banded silica rock, minor diss. & thin bands of pyrite. Foliation @ 50° w/CA. EOH @ 876'. <i>P. J. Ant</i>									

Scale

Colour Plot
& Dips

Drill Hole Record



Property	District	Hole No.	DUM 79-3	Hdr. Comp.
Commenced	Location	Tests at		Vert. Comp.
Completed	Core Size	True Brg.		Logged by
Co-ordinates		% Recov.		Date
Objective				

 Footage
From To

Description

Sample
No.

Length

Claim
Analysis

Collar Dip

Elev.

Length

Hole No. 79-3 Sheet 5

Test for hole's azimuth and dip were done at the following:

	Azimuth	Dip	True Azimuth
Collar	068°	-43° = by Brunton	068°
251'	064°	-43.5°]	065°
371'	063°	-41.5°] by Sperry-Sun Single-Shot	064°
521'	067°	-33°] Instrument	067°
741'	067°	-29°]	067°

Longyear impregnated bits used on silica rock, Mesdrill stone bits used on limestone, dolomite, & schist. Esso Kutwell and Gulf Cutwell used. Esso Kutwell has poor solubility resulting in the core being badly fouled w/grease.

P. J. Aant

CORE RECOVERY SHEET



HOLE NO. 72-3

SHEET NO. 6

RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY
1 - 8	1.0	225 - 235	10	446 - 456	10	699 - 709	10
8 - 11	15	235 - 245	10	456 - 466	10	709 - 719	10
11 - 20	9	245 - 255	10	466 - 476	10	719 - 729	10
20 - 26	6	255 - 264	8½	476 - 486	10	729 - 736	7
26 - 31	5	264 - 274	10	486 - 496	10	736 - 742	6
31 - 46	15	274 - 284	10	496 - 505	9	742 - 752	10
46 - 50	4	284 - 296	10	505 - 513	8	752 - 762	10
50 - 56	5	296 - 302	6	513 - 523	10	762 - 769	7
56 - 66	10	302 - 308	5½	523 - 534	10	769 - 776	7
66 - 76	10	308 - 316	4	534 - 544	10	776 - 783	7
76 - 86	10	316 - 325	9	544 - 554	10	783 - 793	10
86 - 96	10	325 - 335½	10	554 - 564	10	793 - 803	9
96 - 106	10	335½ - 346	9	564 - 574	10	803 - 806	3
106 - 116	10	346 - 356	10	574 - 584	10	806 - 816	9
116 - 121	5	356 - 366	10	584 - 594	10	816 - 820	4
121 - 131	10	366 - 371	5	594 - 605	10	820 - 824	4
131 - 141	10	371 - 375	4	605 - 615	10	824 - 825	1
141 - 151	10	375 - 385	10	615 - 625	10	825 - 826	1
151 - 161½	10	385 - 388	3	625 - 635	10	826 - 827	1
161½ - 171½	10	388 - 396	8	635 - 645	10	827 - 838½	9
171½ - 182	9	396 - 400	3½	645 - 656	10	838½ - 847	9
182 - 186	4	400 - 407	6½	656 - 660	3½	847 - 852	4½
186 - 196	10	407 - 416	10	660 - 670	9½	852 - 858	6
196 - 206	10	416 - 426	10	670 - 677	7	858 - 866	8
206 - 215	8½	426 - 436	10	677 - 688½	10	866 - 870	4
215 - 225	10	436 - 446	10	688½ - 699	10	870 - 876	6

EOR @ 876

Scale

Colour Plot
& Opn

Drill Hole Record



Property DUNCAN LAKE District SLOCAN Hole No. DUM 79-4
 Commenced November 6, 1979 Location Duncan Lake, B.C. Tests at 230', 430', 600', 800' Hor. Comp.
 Completed November 12, 1979 Core Size BQ Wireline Corr. Dip Vert. Comp.
 Co-ordinates Lat. 33909.08 Dep. 5013.15 True Brq. 068° Logged by P.J. Santos
 Objective To test Zone 7 north of shaft % Recov. 98.6 Date November 13, 1979

Footage From	To	Description	Sample No	Length	Analysis			Elev.	Length	Note No.	
					Pb	Zn	Fe				
0	6	Casing, hole collared in silica rock, cemented to 15'. 3' anchor hole drilled.									
6	105	Blue grey, dense silica rock, fine to medium grained, closely banded, irregular masses of white quartz along foliation, foliation @ 50° w/CA. Diss. pyrite, also as thin bands, parallel to foliation. Abundant masses of white quartz @ 54'-62', contorted @ 78'-85', fractured @ 85'-86'. (10° w/CA), minor calcite veins @ 102'-105'. Calcareous matrix.									
105	195	Dark blue grey, fine grained silica rock, thinly banded. Minor thin bands of pyrite & white to light grey quartz along foliation, foliation @ 50° w/CA. Dense and uniformly foliated, minor contortions. Calcareous matrix.									
195	302	Dark blue grey, dense, fine grained silica rock, sericitic in part. 1" quartz veins @ 195'-196', minor diss. pyrite, 4" quartz vein @ 226' @ 90° w/CA. Closely foliated, contorted in places, 2"-3" quartz veins w/pyrite @ 251', 255', and 257'. Brown-yellow sphalerite also below quartz @ 257'. Calcareous matrix.	10694	10	Tr	0.06	0.67	245	-	255	
			10695	5	Tr	0.18	1.57	255	-	260	
			10696	10		0.02	0.09	0.45	260	-	270
			10697	10		0.03	0.08	0.56	270	-	280
			10698	10	Tr	0.04	0.56	280	-	290	
			10699	10		0.03	0.28	0.50	290	-	300
302	334	Blue grey, dense, fine to medium grained silica rock. Heavily pyritized, also w/galena @ 302'-307', 315'-329', brown sphalerite w/pyrite @ 332'-340'. Sericitic, lower contact gradational. Calcareous matrix.	10700	5		6.45	1.50	19.70	300	-	305
			10701	5		0.30	0.13	9.96	305	-	310
			10702	5		0.12	0.25	2.13	310	-	315
			10703	5		0.79	2.40	2.95	315	-	320
			10704	5		0.17	0.14	1.98	320	-	325
			10705	5		0.14	0.48	8.50	325	-	330
			10706	5		0.06	0.30	1.14	330	-	335

Scale

Colour Plot
& Dip

Drill Hole Record



Property	District	Hole No.	DUM 79-4
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage From	To	Description	Sample No.	Length	Analysis				Elev.	Length	Hole No. 79-4 Sheet 2
					Pb	Zn	Fe	i			
334	386	Light grey, medium to fine grained limestone, dark grey banded, intraclast. Fair amount of brown sphalerite bands w/pyrite, occasional white calcite, sericitic. Internal sedimentation texture (graded bedding draped over cavity outline & boulders).	10707	5	0.05	1.10	2.24	335	-	340	
			10708	5	0.15	3.15	9.62	340	-	345	
			10709	5	0.12	2.03	8.95	345	-	350	
			10710	5	0.01	0.23	2.29	350	-	355	
			10711	5	0.07	0.98	2.46	355	-	360	
386	414	Light grey, medium grained quartzite, thin bedded, minor bands of pyrite, foliation @ 90° w/CA.	10712	5	0.02	1.78	2.97	360	-	368	
			10713	5	0.42	0.98	7.39	368	-	370	
			10714	5	1.32	1.10	17.13	370	-	375	
414	441	Light grey to white, fine grained dolomitic limestone. Abundant (semi-massive) pyrite @ 414'-419', fair brown sphalerite @ 419'-420', much pyrrhotite @ 421'-426' as fracture fillings, internal sedimentation texture @ 417'-421', white to light grey quartz vein @ 431'-435' @ 15° w/CA. Fractured, sericitic in places. Fracture lines coloured black.	10715	5	1.25	1.62	20.93	375	-	380	
			10716	5	0.11	0.44	2.24	380	-	385	
			10717	5	0.59	1.12	1.68	385	-	390	
			10718	10	0.06	1.43	1.85	390	-	400	
			10719	10	0.16	0.70	2.24	400	-	410	
			10720	4	0.24	0.89	2.74	410	-	414	
			10721	5	0.74	1.68	14.33	414	-	419	
			10722	5	0.27	1.52	7.05	419	-	424	
			10723	10	Tr	0.03	2.13	424	-	434	
441	460	Dark grey to black, sericitic schist, minor pyrite bands. Quartz veins @ 452' & 460', foliation @ 65° w/CA. Parts along schistosity, irregular veinlets of white calcite along section.									
460	476	Light green and grey, contorted schist. Quartz veins @ 460' & 470'.									
476	486	Light gray to white, dolomitic limestone, fractured, fracture lines colored black as in section 414'-441', intraclasts. Quartz vein @ 476'.									

Scale

Colour Plot
& Graph

Drill Hole Record



Property	District	Hole No.	DUM 79-4
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Verl. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Interval From To	Description	Sample No.	Length	Analysis			Collar Dip	Elev.	Length	Hole No. 79-4 Sheet 3
				Clam	Pb	Zn					Fe
486 497	Black sericite schist, contorted, parts along schistosity, minor diss. pyrite.									
497 520	Dark grey, fine grained, schistose, sericitic, calcareous quartzite. Schistosity @ 40° w/CA.									
520 570	Dark grey, fine sandy, thinly foliated dolomite, foliation @ 50° w/CA. Dense & uniform, sericitic.									
570 625	Light grey, medium grained, dense, vaguely banded dolomitic limestone, intraclasts. Laminites @ 577', some graded intervals, blotchy bedding.									
625 672	Light grey, fine sandy dolomite, blotchy bedding, intraclasts, pyrite pyrrhotite veins @ 637'-638' Fractured @ 641'-643' w/gouge, minor pyrite bands.	10724	10	Tr	0.03	0.67	627	-	637	
		10725	3	Tr	0.01	3.2	637	-	640	
		10726	10	Tr	0.01	0.45	640	-	650	
672 677	Green sericite schist, thinly foliated, dense.	10727	10	Tr	0.02	0.90	650	-	660	
677 686	Brown, thin bedded schistose quartzite. Distinct reddish brown banding, banding @ 40° w/CA, Minor specks of sphalerite @ 672'-673'.	10728	10	Tr	0.01	0.90	660	-	670	
		10729	5	Tr	0.01	2.9	670	-	675	
		10730	10	Tr	0.0	2.9	675	-	685	
686 701	Greenish grey, fine grained dolomite with thin bands of brown sphalerite, intraclasts, birdseye & laminites. Graded bedding @ 692'.	10731	5	Tr	0.0	2.29	685	-	690	
		10732	5	Tr	0.0	2.07	690	-	695	
701 711	Green, fine crystalline limestone. Sphalerite @ 701'-702' as diss. at contact, black sericite schist @ 704'-710'. Lower contact gradational.	10735	5	Tr	0.01	1.57	695	-	700	
		10734	10	Tr	0.01	2.63	700	-	710	
711 760	Light greyish green, fine grained quartzite, sericitic, schistose, dense. Grey & sandy argillite sections @ 738'-747', fractured w/gouge @ 755'-760. Qtz vein (2") @ base.									

Scale
Colour Print
& Date

Drill Hole Record



Property	District	Hole No.	DUM 79-4
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov	Date

Footage From	To	Description	Sample No.	Length	Analysis			Claim	T Brg.	Collar Dip	Elev.	Length	Hole No. 79-4 Sheet 6
					Pb	Zn	Fe						
760	764	Light grey, fine grained dolomite, blotchy bedding, intraclasts, occasional pyrite diss.											
764	807	Green sericite schist, contorted, uniform, soft. White quartz vein @ 783'-784'. Coarse, white marble sections @ 798'-799' and 803'-803.5', dark grey @ 764'-767'.											
807	817	Grey, medium to coarse limestone (marble) w/thin bands of green schist, bands @ 50° w/CA.											
817	825	Green sericite schist, thinly foliated. Band of coarse limestone 820'-822'.											
825	853	Light grey to white, coarse limestone (marble) w/diss. sphalerite & irregular masses of pyrite, internal sed. textures @ 830'-848' (photo), fine grained w/intraclasts from 838'-853', also more greyish @ 838' down. Galena w/pyrite @ 835'-836'.	10735	5	Tr	0.010	0.28	830	-	835			
			10736	5		0.14	0.144	53	835	-	840		
			10737	5		0.01	0.060	78	840	-	845		
			10738	10		0.02	0.53	1.01	845	-	855		
853	871	Light grey, fine grained dolomite, abundant intraclasts, blotchy bedding, internal sedimentation textures. Sphalerite band @ 866' (1").	10739	10	Tr	0.17	0.73	855	-	865			
			10740	10		0.01	0.09	1.40	865	-	875		
			10741	5	Tr	0.02	0.84	875	-	880			
871	879	Light grey to white, coarse crystalline limestone, vaguely banded.	10742	5		0.03	0.52	3.30	880	-	885		
879	890	Light grey, medium to fine dolomitic limestone, abundant internal sedimentation textures (graded bedding draped over outline of cavity & boulders), sphalerite-pyrite along graded bedding, silicified toward base.	10743	5		0.04	0.80	2.97	885	-	890		
			10744	5	Tr	0.05	0.45	890	-	895			
			10745	5		1.34	2.50	8.22	895	-	900		
			10746	10		0.01	0.15	0.39	900	-	910		
890	897	Light grey, fine sandy textured quartzite. Abundant pyrite, sphalerite and minor galena @ 893'-897'. Banding @ 80° w/CA.											
897	928	Blue grey, thinly foliated, dense silica rock, very fine grained. Abundant white quartz bands along foliation, foliation @ 70° w/CA. Minor pyrite bands.											

P. J. Smith

Scale

Colour Plot
& Dip

9

Drill Hole Record



Property	District	Hole No.	DUM 79-4
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Footage:
From To

Description

Sample
No.

Length

Analysis

Claim

T. Brg.

Collar Dip

Elev.

Length

Hole No. 79-4 Sheet 5

EOH @ 928'

Tests for hole's azimuth and dip were done at the following:

	<u>Azimuth</u>	<u>Dip</u>	<u>True Azimuth</u>
Collar	068°	-35° by Brunton	068°
230'	064°	-35°]	065°
430'	065°	-35.5°]	066°
600'	065°	-33°] by Sperry-Sun	066°
800'	065°	-32°] Single-Shot Instrument	066°

Note: Longyear impregnated bits used on silica rock. Westdrill stone bits used on quartzite, dolomite, limestone and schist. Shell Dromus cutting oil and Gulf cutting oil used throughout hole. "Roller skates" (8 standard drill rod w/roller bearings) was used to push overshot through rods instead of a special pump, head, and new cables normally required for flat or shallow-angle drill holes.

P. J. Smith

CORE RECOVERY SHEET



HOLE NO. 79-4

SHEET NO. 6

RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY	RUN	RECOVERY
0 - 11	4 casing to 6'	245 - 255	10	505 - 515	10	711 - 717	5
11 - 15	3	255 - 265	10	515 - 525	10	717 - 719	2
15 - 25	9	265 - 275	10	525 - 535	10	719 - 724	4
25 - 35	10	275 - 285	10	535 - 543	8	724 - 729	5
35 - 42	7	285 - 295	10	543 - 553	10	729 - 739	10
42 - 45	3	295 - 304	9	553 - 561	7	739 - 749	10
45 - 55	10	304 - 314	9	561 - 567	5	749 - 759	10
55 - 65	10	314 - 324	10	567 - 573	6	759 - 767	8
65 - 75	10	324 - 334	10	573 - 580	7	767 - 777	9
75 - 85	10	334 - 344	10	580 - 585	5	777 - 787	10
85 - 95	10	344 - 354	10	585 - 593	6	787 - 797	10
95 - 105	10	354 - 364	10	593 - 603	10	797 - 807	10
105 - 115	10	364 - 374	10	603 - 612	9	807 - 817	10
115 - 127	12	374 - 384	10	612 - 617	5	817 - 827	10
127 - 137	10	384 - 394	10	617 - 625	7	827 - 838	10
137 - 147	10	394 - 404	10	625 - 634	9	838 - 848	10
147 - 157	10	404 - 414	10	634 - 641	6	848 - 858	10
157 - 165	8	414 - 425	11	641 - 648	7	858 - 866½	8
165 - 175	10	425 - 435	10	648 - 655	7	866½ - 877	10
175 - 185	10	435 - 445	10	655 - 658	3	877 - 885	8
185 - 195	10	445 - 455	10	658 - 666	8	885 - 887	2
195 - 205	10	455 - 465	10	666 - 672	10	887 - 897	10
205 - 215	10	465 - 475	10	672 - 682	10	897 - 900	3
215 - 225	9½	475 - 485	10	682 - 692	10	900 - 904	4
225 - 235	10	485 - 495	10	692 - 702	10	904 - 913	9
235 - 245	10	495 - 505	10	702 - 711	9	913 - 918	5

TABLE OF CLAIMS

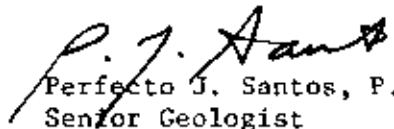
DUNCAN LAKE PROPERTY, B.C.



	<u>Name of Claim</u>	<u>Record No.</u>	<u>No. of Units</u>
GROUP 1	Bill	1444	1
	Bill 2	1446	1
	Art 1	1429	1
	Art 3	1431	1
	Art 4	1432	1
	Art 5	1433	1
	Art 6	1434	1
	Alice	1657	1
	Frank	1658	1
	Rosco 2	2326	1
	Rosco 3	2327	1
	Rosco 6	2330	1
	Rosco 8	2332	1
	Ruth	1710	1
	Fat	1441	1
	Jim	1442	1
	Oiho	1443	1
	Marge	1448	1
	Dave	1449	1
	Magie	1450	1
GROUP 2	Bill 1	1445	1
	Bill 3	1447	1
	Art 2	1430	1
	Rosco 1	2325	1
	Rosco 4	2328	1
	Rosco 5	2329	1
	Rosco 7	2331	1
	Rosco 9	2321	1
	Rosco 10	2322	1
	Rosco 11	2323	1
	Rosco 12	2324	1
	Rosco 13	5135	1
	Rosco 14	5136	1
	Rosco 15	5137	1
	Rosco 16	5138	1
	Jigs	1451	1
	LD	1615	1
	LD 1	1616	1
	LD 2	1617	1
	LD 3	1618	1
	LD 4	1619	1
	LD 5	1620	1
	LD 6	1621	1
	LD 7	1622	1
	LD 8 Fr	5442	1
	LD 9 Fr	5443	1
	Art & Fr	5444	1
	LD 10 Fr	5473	1
	Ted 1 Fr	4868	1
	Ted 2 Fr	4869	1
	Ted 3 Fr	4870	1
	Jen Fr	4700	1
	Lakeshore	1828	1
Lakeshore 1	1829	1	
Grizzly CG	14371	1	

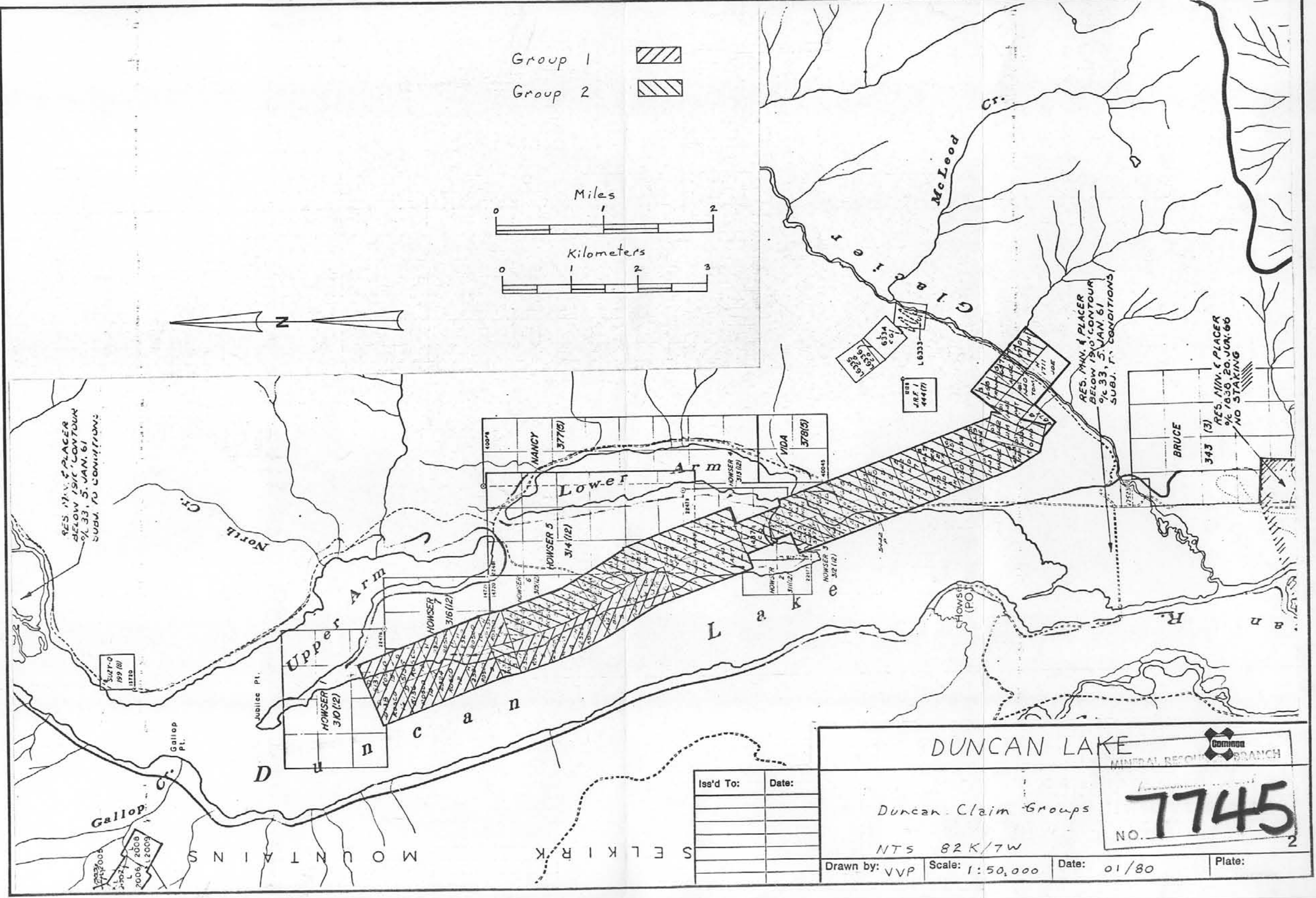
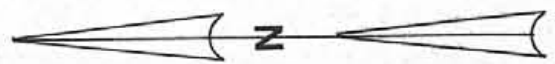
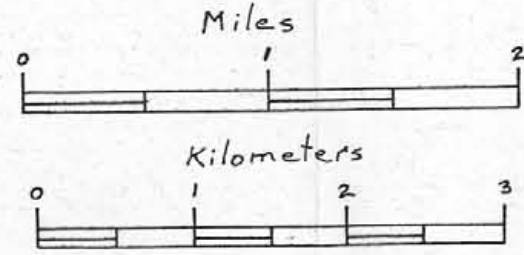
VII. (c) CERTIFICATE OF QUALIFICATION OF AUTHOR

I, Perfecto J. Santos, of Castlegar, B.C. hereby certify that:

- (1) I am a geologist residing at 626-3rd Avenue North, Castlegar, B.C. and employed as Senior Geologist at Cominco Ltd. in Trail, B.C.,
- (2) I am a graduate of the University of the Philippines with the degree of Bachelor of Science in Mining Engineering (Geology Option) in 1959, and a member of the Association of Professional Engineers of B.C. I have practiced my profession for twenty years, thirteen years in Canada,
- (3) I personally supervised the drilling program on the Duncan Lake Property in the Slocan Mining Division of B.C.,
- (4) I personally logged the drill holes and conducted the survey of the drill hole locations,
- (6) I am the author of this report, which is based on the above mentioned drilling program.


Perfecto J. Santos, P. Eng.
Senior Geologist
Mine Engineering
Cominco Ltd.
Trail, B.C.

Group 1 
 Group 2 



RES. MIN. & PLACER
 BELOW 150' CONTOUR
 % 33, 5. JAN. 61
 SUBJ. TO CONDITIONS

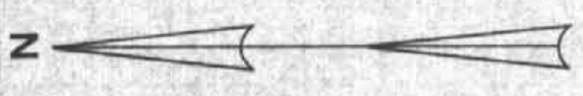
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 BELOW 150' CONTOUR
 % 33, 5. JAN. 61
 SUBJ. TO CONDITIONS

RES. MIN. & PLACER
 % 100, 20. JUN. 66
 NO STAKING

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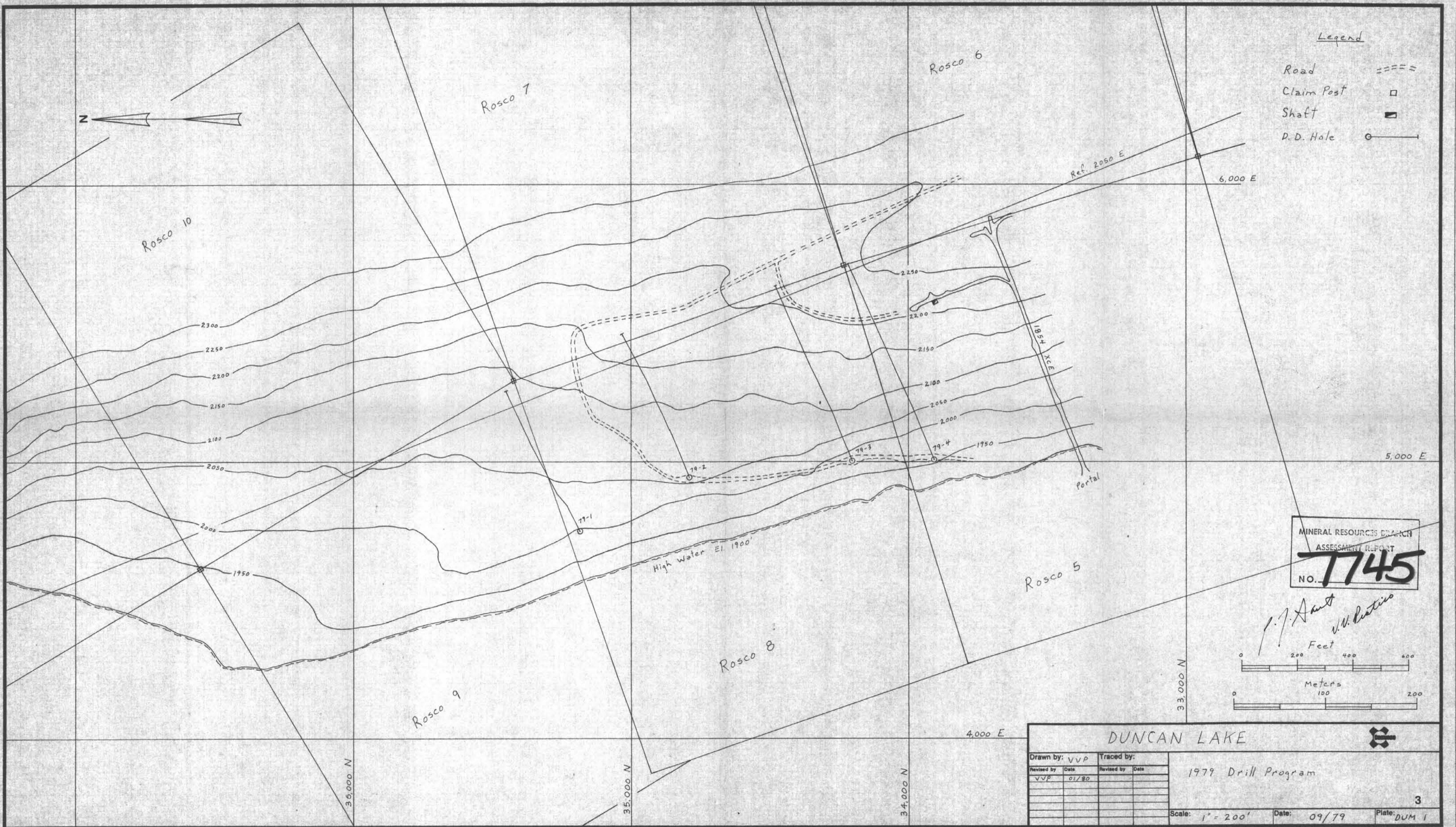
2006/2008
 L 2009

Iss'd To:		Date:		DUNCAN LAKE MINERAL RECONSTRUCTION BRANCH	
Duncan Claim Groups		NTS 82K/7W			
Drawn by: VVP		Scale: 1:50,000		Date: 01/80	
				Plate:	

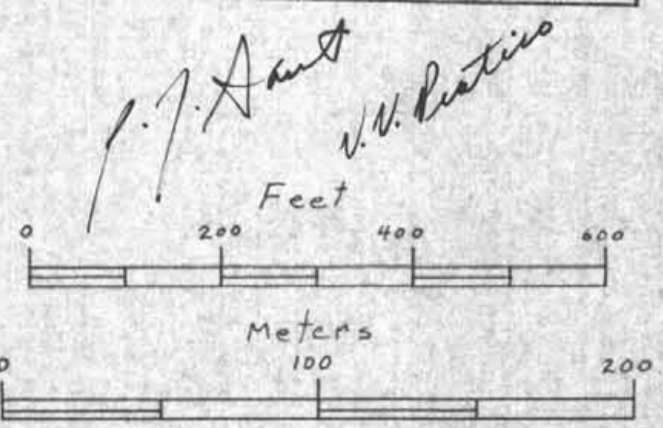


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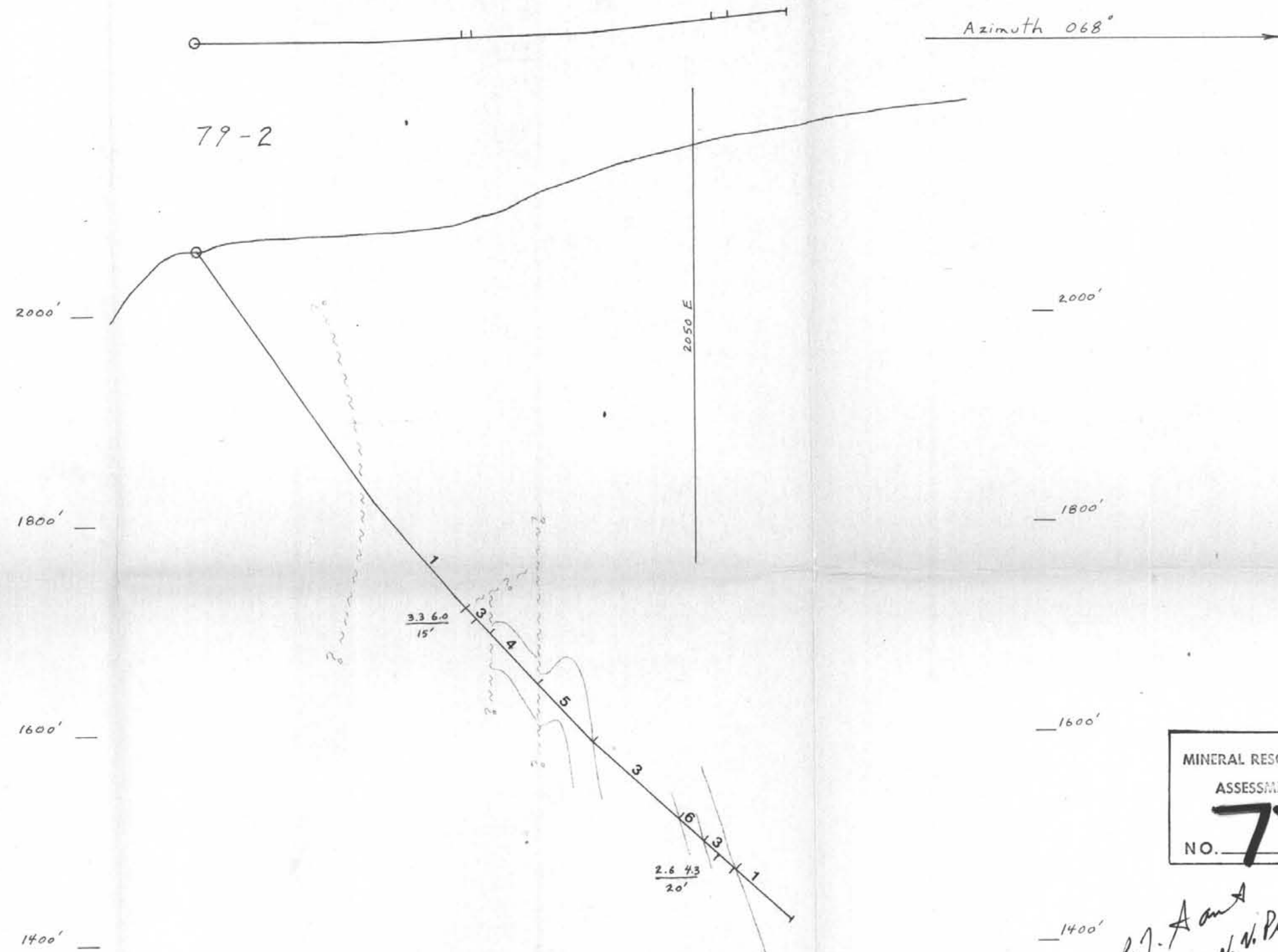
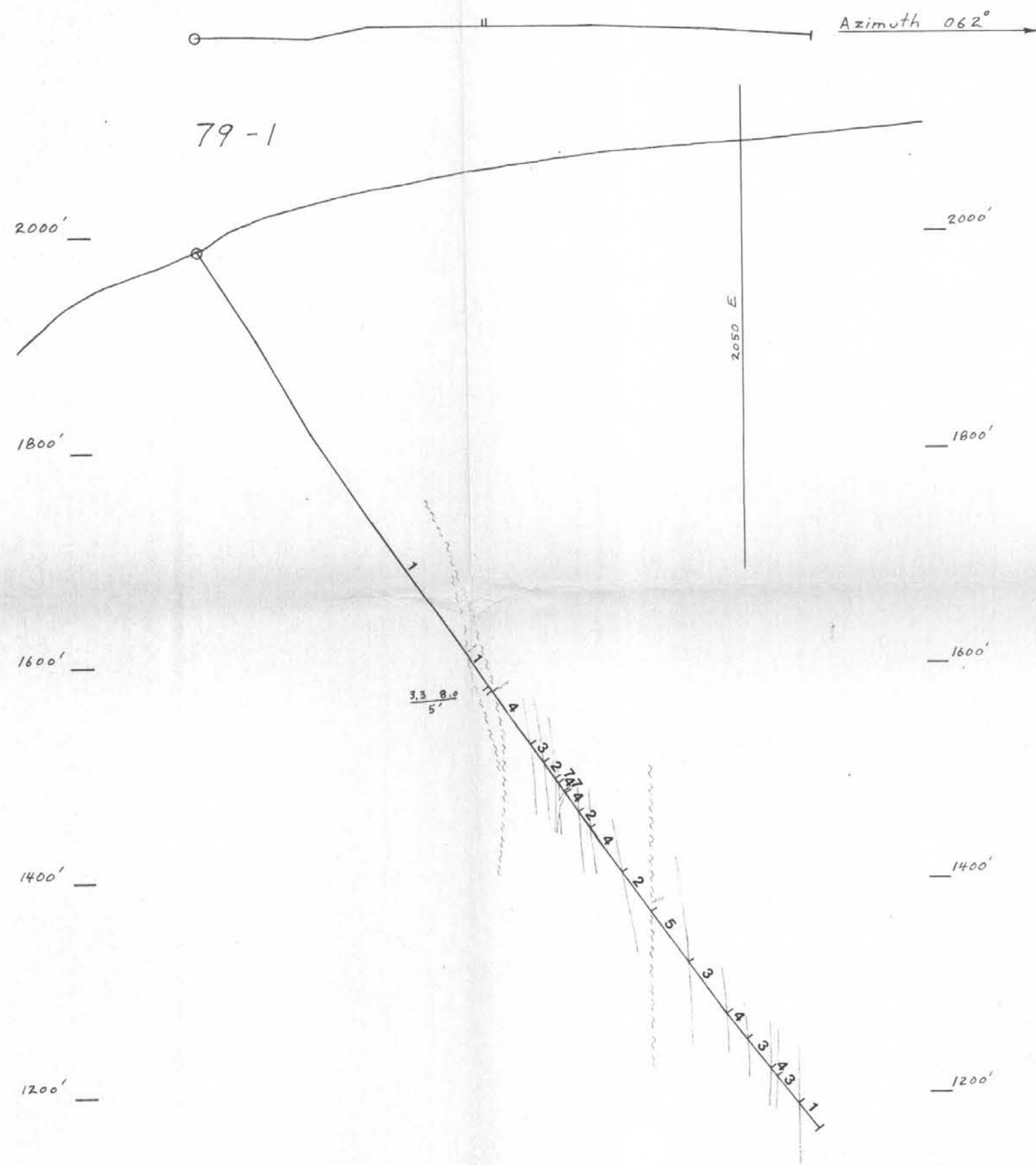
- Road =====
- Claim Post □
- Shaft ■
- D.D. Hole ○



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **7745**



DUNCAN LAKE			
Drawn by: VVP		Traced by:	
Revised by	Date	Revised by	Date
VVP	01/80		
1979 Drill Program			
Scale: 1" = 200'		Date: 09/79	Plate: DUM 1



Legend

Silica Rock	1	Fault	~~~~~
Quartzite	2	Contact	————
Limestone	3		
Dolomite	4		
Greenschist	5		
Schist	6		
Andesite	7		

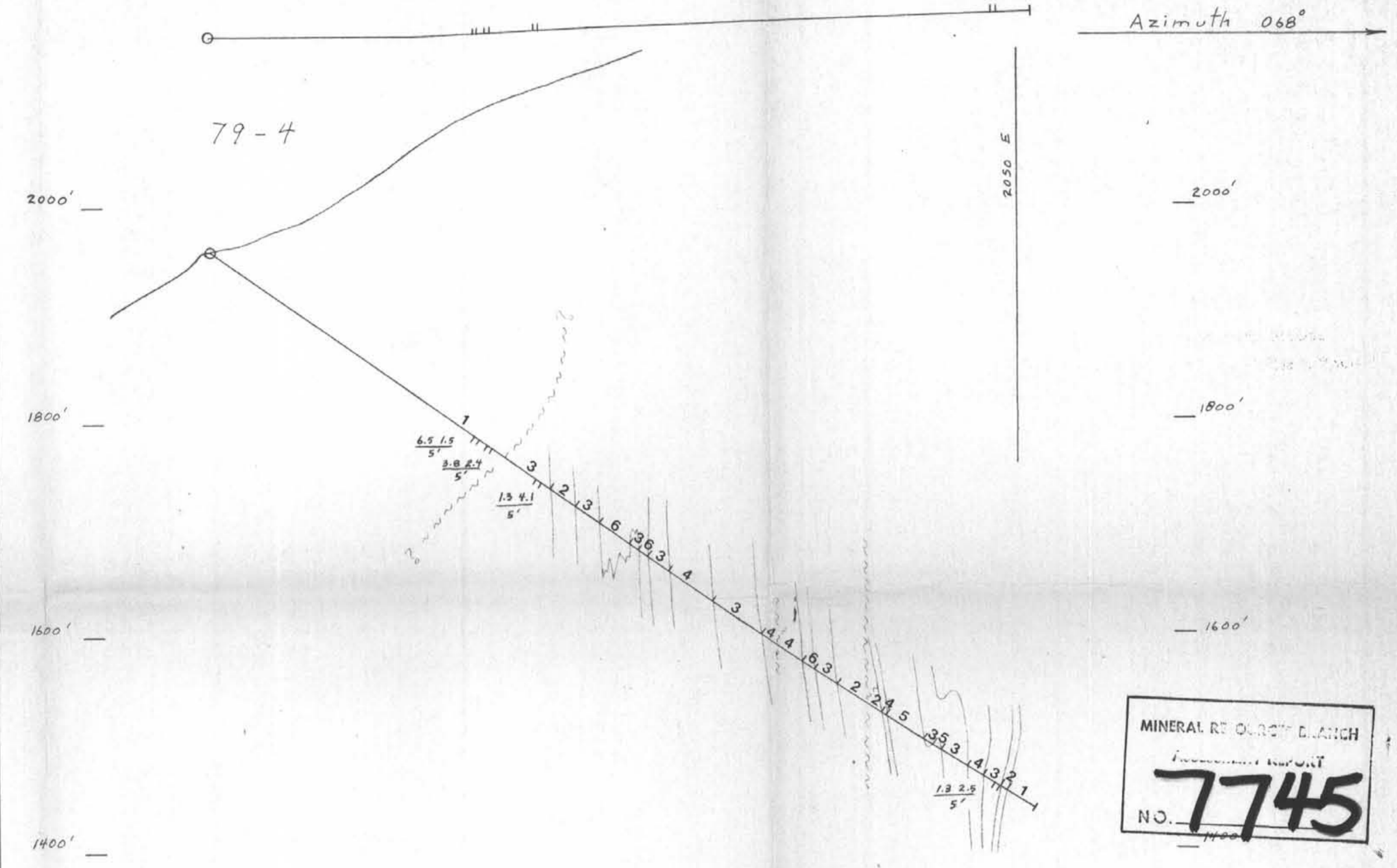
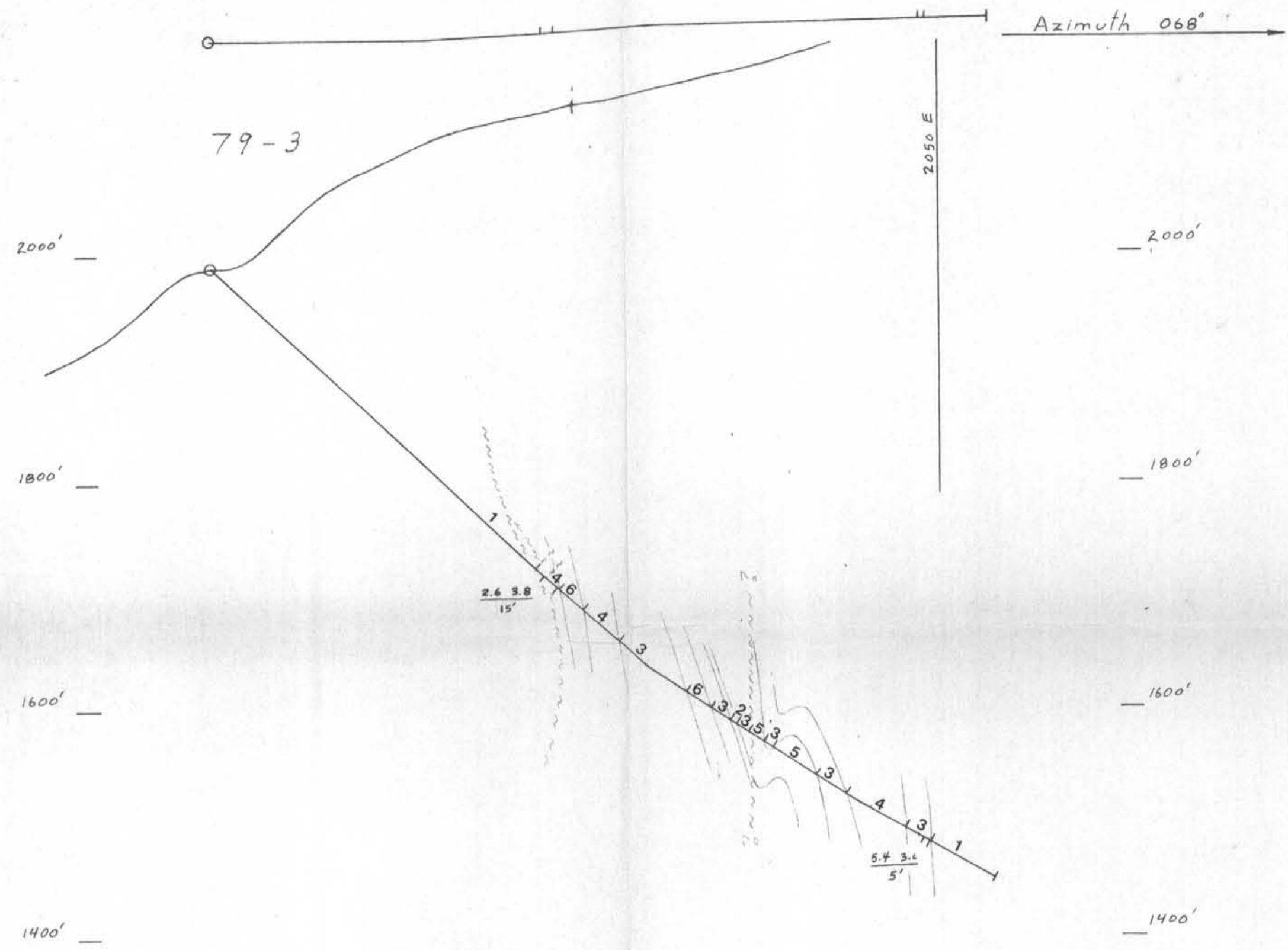
$\frac{3.3 \ 6.0}{15'} = \frac{3.3\% \ 2.8\% \ 6.0\% \text{ Zn}}{15' \text{ core length}}$

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **7745**



DUNCAN LAKE

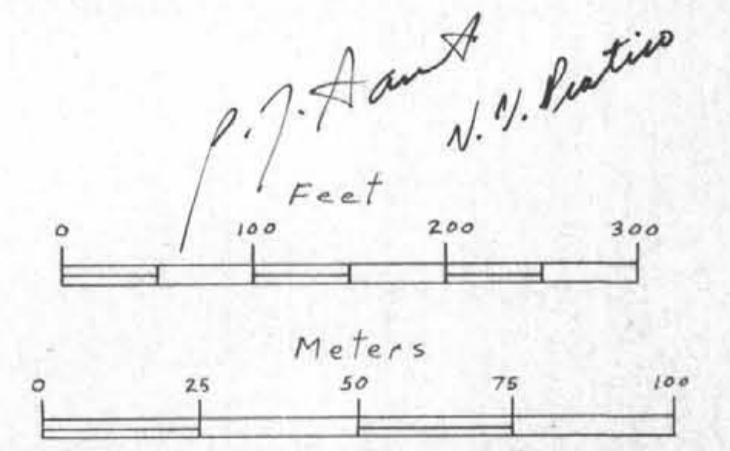
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Revised by: Date	Revised by: Date	
Scale: 1" = 100'		Date: 12/79
		Plate: DUM 3



MINERAL RESOURCES BRANCH
 INVESTIGATION REPORT
7745
 NO. _____

Legend

- Silica Rock [1]
 - Quartzite [2]
 - Limestone [3]
 - Dolomite [4]
 - Greenschist [5]
 - Schist [6]
- Fault *~~~~~*
- Contact *—*
- $\frac{6.5 \text{ } 1.5}{5'}$ = $\frac{6.5\% \text{ Pb } 1.5\% \text{ Zn}}{5' \text{ Core Length}}$



DUNCAN LAKE

Drawn by: VVP	Traced by:	Vertical and Horizontal Projections of Diamond Drill Holes 79-3 & 79-4
Revised by: _____	Revised by: _____	
Scale: 1" = 100'	Date: 12/79	Plate: DUM 4