

800193
Torwest Properties
June 17, 1964.

The Directors,
Torwest Resources (1962) Ltd.,
404 - 409 Granville Street,
Vancouver 2, B.C.

Gentlemen:-

This report deals with operations of the Rossland project of Torwest Resources (1962) Ltd., being carried on in the Rossland Area, British Columbia. The intention is to review operations, analyze results and recommend further procedures.

HISTORY OF THE AREA

The Rossland Camp is one of the oldest mining areas in British Columbia dating back to the 1890's. Its activity was instrumental in bringing a smelter into the city of Trail. Several large mines operated until the 1920's under the ownership of Consolidated Mining & Smelting, and other private companies. Since the 1920's many properties have been operated by groups of individuals on a leasing arrangement.

LOCATION OF TORWEST PROPERTIES

The 10 crown-granted and 2 staked fractional claims are located 2 miles northwest of the village of Rossland. Nine claims grouped as one contiguous unit, lie along the western slope of Red Mountain. An isolated crown-grant, the Ontario, lies to the north of the group.

Elevation of the claims varies from 3900' to 5200'.

The land area covered by the claims is approximately 250 acres.

In addition the company has an option agreement with Consolidated Mining & Smelting regarding 4 claims known as the Grey Group, lying between the main Torwest group and the Ontario crown grant.

INITIAL WORK

Work on the Rossland project began on February 5, 1964 with the cutting of base and picket lines. A 3600' baseline was run on an east-west bearing with north-south picket lines being turned off at 200' intervals along the line. These picket lines were extended 1000' in both directions.

Reference is made to the plan map labelled "Rossland Project" scale 1" = 200' in the map section of this report (map #64-1).

Along these cut lines geophysical surveys were conducted by Moreau, Woodward and Company Ltd., of Toronto Ontario, in early February, 1964. The Surveys involved consisted of a magnetometer and an electro-magnetic type called Turam.

The electro-magnetic survey located six relatively shallow conductors. Reference is made to map # 64-3A.

The magnetometer survey exposed several high magnetic anomalies corresponding to the electro-magnetic

anomalies, other quite isolated. Reference is here made to map # 64 - 3 B.

Coinciding with the drilling program but of a necessity held off until the snow disappeared was a surface examination of the various showings contained within the company property. Location and assay results from this examination are shown on map # 64-1.

A drill program was started on March 3rd, 1964. To date some 4,968 feet has been drilled in 12 holes. Results of this drilling are detailed in the claim analysis. In addition pack sack drilling of select areas has yielded 234 feet of core in 6 holes.

INTERPRETATION OF RESULTS AND RECOMMENDATIONS

In order to give a more comprehensive analysis of the individual and combined results of all test procedures to date, the writer proposes to review the findings claim by claim.

JUMBO C.G. (L 965)

The Jumbo claim has been the most productive of the group during its past history. Operators have shipped some 34,000 tons of gold - silver ore from a large open pit since 1903.

Turam E.M. results showed a strong anomaly on line 34 in the north-west corner of the claim. Drill hole #T-7 undercut this anomaly exposing a strongly mineralized zone

consisting of pyrrhotite and pyrite. No economic values were indicated. Reference to map #64-6 shows the values and rock formations encountered by this drilling.

The results obtained from drilling east of Jumbo Creek suggested the possibility of favourable formations lying at depth below the Jumbo Mine. To check this theory holes T-4, T-6 and T-8 and T-11 ^{to(?)} inclusive were bored. Commercial values over narrow widths were obtained in T-6, T-9, T-10 and T-11.

Values encountered were:-

✓ <u>T-6</u>	201.5 to 208.0	Au 5.16 oz/t;	Ag 1.8 oz.;	Cu 0.42%
✓ <u>T-9</u>	118.0 to 120.0	Au 0.78 oz/t;		Cu 0.8%
<u>T-10</u>	271.0 to 276.0 293.0 to 309.0	Au 0.30 oz/t; Au 0.302 oz/t;	Ag 1.12 oz/t	<i>Drilled under T-6.</i>
<u>T-11</u>	192.0 to 193.0	Au 0.893 oz/t	Ag 0.18 oz/t	

Hole T-4 intersected a seven foot width from 441.0' to 448.0' yielding 0.68 oz/t gold and 5.2 oz/t silver. This assay was not substantiated in further testing of this section with the result the intersection has been excluded from all interpretation. Refer to map 64-7. *mining*

The results suggest a gold distribution presenting on the limited evidence no definite pattern. The values however are of sufficient importance to warrant further drilling. It is recommended that some 1500 feet of drilling be applied on sectional and strike drilling.

Results of the Jumbo drilling are illustrated in map #64.5.

HIGH ORE (L 641)

Two electrical conductors were indicated in the surveys lying close to the Good Friday boundary line.

Holes T-2 and T-3 investigated these anomalies. Areas of weak sulphides encountered in the drilling presumably gave rise to the conductive zones. No economic values were intersected. Maps # 64-8 and 9 show the drill results.

No further action need be contemplated for this claim.

NEVADA (L 966)

A magnetic high corresponded with an E.M. conductor in the north central portion of the claim. This condition was checked out by Hole T-1 which was unable to account for the anomaly. Map # 64-10 points up this fact.

The main showings lie just below the baseline in the eastern half of the claim. The strong east-west trending copper structure should be tested by one or two drill holes. This structure is one the same strike as the Mountain View vein and might possibly be its westward prolongation.

SAM HAYES AND PEAK (L 1209)

These two claims show a strong magnetic anomalies which has been investigated by hole T-12. Results of the drilling show heavy magnetite sections and narrow sulphide areas. A two foot section from 78' - 80' ran 0.025 oz/t gold; 5.80 oz/t silver; 0.28% copper; 2.20% lead; 2.53% zinc and 0.007% molybdenum. A section from 148' to 151' shows

similar mineralization. Assays from this section have not been received to time of report.

The results as illustrated on map #64-11 warrant an additional hole probing the same anomaly at a different elevation.

GOOD FRIDAY (L 967)

The Turam survey revealed a weak conductor in the south west quadrant. Pyrrhotite, magnetite and pyrite were the cause of the condition as disclosed in hole T-5 (refer to map #64-12). As no economic values were cut, the anomaly needs no further investigation.

The main Good Friday showings carry a heavy lead-silver content in a north-south vein. This flat-dipping eastplunging structure should be checked out with several drill holes along the strike.

In the east central section a quartz vein carrying gold-lead values and lying parallel to the Mountain View structure should be probed by a single drill hole. If results are favourable further holes along the strike of the vein should be laid out.

OPAIR (L 1829)

To date nothing of interest has been located on this claim.

ONTARIO

This isolated claim has had no work carried out whatsoever. It is recommended that surface investigation be

carried out for the purpose of locating any trenches, pits or surface exposures.

TOR 1 Fr. and TOR 2 Fr.

The earlier surveys were not carried far enough west or north to fully investigate any sub-surface phenomena on these staked claims. It is therefore recommended that surface examination, as with the Ontario, be carried out on these claims.

MOUNTAIN VIEW (1 632)

A magnetic anomaly of moderate intensity has been located in the eastern half of the claim. Investigation of this anomaly will likely result from extension of drilling on the various showings of the claim.

Sulphide structures as revealed by trenches and pits have strikes varying from east-west through the north west quadrant to north-south. The main showings, a north-south copper vein, lie several hundred feet south of the baseline on line 14. Three adits and one shaft investigate the various subsidiary and main structures. A drill program involving a minimum of 1500 feet should be laid out to test the continuity of these various zones.

COXEY (L 1221)

This claim has received the greatest attention lately. The geophysical surveys revealed no extensive conductive nor magnetic zones. However, surface examination (see Map #64-1) has revealed a rather extensive area of

molybdenum mineralization. Preliminary investigation by pack-sack drilling has revealed one zone 109' long carrying an average assay of .457% MoS₂ over a true width of 20' to a vertical depth of 27 feet. Pack-sack holes P-1, P-2 and P-3 illustrate this in maps #64-13, 14, & 15. Some 250' to the south-east, holes P-4 and P-5, drilling under showings that carried good molybdenum, cut minor values along their lengths. Refer to maps #64-16 and 17. Hole P-6, 650' ^tsough and drilling at the time of writing, has intersected interesting molybdenum mineralization. Refer to log of P-6. It is recommended that this area be drilled off by a big machine stepping off at 100' intervals along the strike to the mineralized zone. A minimum footage of 2,500 feet should be allocated for this program.

A copper-gold structure, the main Coxey showing, lies to the north-west of the molybdenum area. The drilling of the molybdenum structure should be extended to the north-west to embrace this area.

SUMMARY & CONCLUSIONS

High grade gold values have been obtained in the Jumbo drilling. The present drilling is incomplete and on the basis of results more drilling is definitely warranted. A pattern of gold structures of limited width and strong value is emerging and should be checked out with holes along the strike of the structure and down the dip. The

writer recommends a minimum footage of 1000' to 1500' be applied to this area.

The Mountain View claim has mineralized structures worthy of sub-surfacing probing. Some 1500' of drilling should be allocated for this area.

The Coxeey claim has revealed molybdenum mineralization over an extended area. Preliminary short holes have verified this existence at a shallow depth. It is recommended that 2500' of drilling be carried out along this zone with an additional several hundred feet more being applied to the adjoining copper-gold showings.

In addition, interesting showings on the Good Friday and Nevada should be checked out with a series of single or dual holes at the recommended showings. A footage of 800' should suffice for the initial investigation.

In effect, to fully check out all possibilities some 6000' of drilling is recommended.

Respectfully submitted,

W.G. Hainsworth B.Sc.
Consulting Geologist.

June 17th, 1964.
Vancouver, B.C.

CERTIFICATE

I, W.G. HAINSWORTH, of West Vancouver, B.C. do hereby certify:

1. That I am a Consulting Geologist, residing at 4664 Clovelly Walk, West Vancouver, B.C.
2. That I am a graduate of the University of Western Ontario, Bachelor of Science Degree.
3. That I have practiced my profession for 14 years.
4. That the information contained in the report is based on personal knowledge of the property obtained through constant contact with present operations and examination of maps and data pertaining to the area in general.

W.G. HAINSWORTH

COLLAR

NORTH 620° N.
 EAST 2660° W.
 ELEVATION 4105'
 DIPS -45°

DIAMOND DRILL RECORD

COMPANY TOPEAST RESOURCES
 PROPERTY ROSSLAND PROJECT
 LOCATION Jumbo Creek.

HOLE T-1
 STARTED Mar. 3, 1964
 FINISHED Mar 6, 1964
 PURPOSE To test E.M. & Magnetic anomalies at 500N, 2600 W.

FROM	TO	DESCRIPTION	SAMPLES			ASSAYS		AVERAGES		
			SAMPLE NO.	FROM	TO	WIDTH	Runs	Shorts	Runs	Shorts
0.0	22.0	Broken Core, includes 18" core of nice size.					0-22	17.5	111-116	-
22.0	43.0	Tuff, fine grained, greenish, minor pyrite.					22-27	-	116-117	-
							27-30	-	117-152	-
43.0	90.0	Tuff agglomerate or siltstone, minor pyrite and a few hairline quartz veinlets. Garnets from 41-90 feet. Bedding 80° to core.					30-35	-	152-157	-
							35-40	-	157-162	-
							40-45	-	162-167	-
							45-50	-	167-172	-
90.0	136.0	Tuff, epidotized, minor pyrite in veinlets. Anionized on cleavage. Garnets from 125-130 feet.					50-53	-	172-177	-
							53-58	-	177-182	-
							58-63	-	182-187	-
136.0	187.0	Tuff, bedded, with epidote and some garnets from 136-150 feet. Bedding 10° to core.					63-68	-	187-192	-
							68-69	-	192-197	-
							69-71	1.5	197-202	-
							71-81	-	202-207	-
187.0	209.0	Tuff, occasional garnets, Krolinized on cleavage.					81-86	-	207-209	-
							86-91	-	209-214	-
209.0	212.0	Tuff, bedded or siltstone, bedding 40° to core.					91-96	-	214-219	-
							96-101	-	219-224	-
212.0	255.0	Tuff, greenish, fairly massive.					101-106	-	224-229	-
							106-111	-	229-234	-
							111-116	-	234-235	-
		END OF HOLE					116-121	-	235-240	-
							121-126	-	240-245	-
							126-131	-	245-250	-
		Logged by - L.T.					131-136	-	250-255	-
							136-141	-		
									Core Recovery	99.5%

COLLAR

NORTH 1150'
 EAST 2600 West
 ELEVATION 4070
 DIPS -60°
 Bearing- South

DIAMOND DRILL RECORD T-3

COMPANY TOWNEST RESOURCES
 PROPERTY RUSSLAND PROJECT
 LOCATION Jumbo Crank

HOLE T-3
 STARTED March 20, 1964
 FINISHED March 24, 1964
 PURPOSE To test for down dip
 extent of mineralization in T1
 in the augite andesite.

FROM	TO	DESCRIPTION	SAMPLES			ASSAYS		AVERAGES		
			SAMPLE NO.	FROM	TO	WIDT'	Au	Cu	Runs	Short
0.0	24.0	Overburden								
24.0	30.0	Syenite, 5% pyrite	8213	24	30	6'	.005	.15	24-30 30-35	4.0 2.0
30.0	40.0	" " " , epidote	8214	30	40	10'	Tr	.02	-40 -46 -56	- 0.5 0.3
40.0	50.0	Syenite, fragments of augite porphyry, 5% pyrite	8215	40	50	10'	Tr	Tr	-72 -78	- -
50.0	58.0	Ditto	8216	50	58	8'	.005	Tr	-84 -94	0.5 -
58.0	122.0	Syenite, inclusions of volcanics, minor pyrite and epidote on fractures.							-104 -108	
122.0	134.0	Tuff, altered, banding 60° to core.							-112 -115	
134.0	233.5	Tuff, altered, banded, some quartz, calcite, pyroxenite, minor chalcopyrite and rare MoS ₂ .							-120 -130 -134	
		134-139 Weak mineralization	8217	134	139	5'	Tr	Tr	-134	
		139-144 Ditto	8218	139	144	5'	Tr	.03	-144	
		144-149 Ditto	8219	144	149	5'	Tr	Tr	-154	
		149-154 Ditto	8220	149	154	5'	.005	.05	-164	
		154-159 5% sulphides	8221	154	159	5'	.005	.04	-174	
		159-194 Ditto	8222	159	194	5'	.005	.17	-204	
		194-199 Ditto	8223	194	199	5'	Tr	.25	-214	
		199-204 Ditto	8224	199	204	5'	.01	.25	-224	
									-234 -244	

COLLAR

NORTH _____
 EAST _____
 ELEVATION _____
 DIPS _____

DIAMOND DRILL RECORD

COMPANY _____ (1962) LTD.
 PROPERTY _____
 LOCATION _____

HOLE T-3
 STARTED _____
 FINISHED _____
 PURPOSE _____

FROM	TO	DESCRIPTION	SAMPLES			ASSAYS	AVERAGES			
			SAMPLE NO.	FROM	TO		WIDTH	FEET	SHOOTS	
233.5	238.5	Tuff, banded, considerable magnetite, some chalcopyrite	0225	233.5	238.5	.5'	.005	.07		
238.5	244.0	Tuff, a few streaks of magnetite.							244-	254
244.0	270.0	Tuff, greenish, a little epidote some garnets, minor pyrrhotite.							264	
270.0	289.0	Andesite dike, chilled borders and coarse grained at centre.							274	
289.0	312.0	Tuff, greenish, minor pyrrhotite and epidote.							284	
312.0	318.0	Andesite dike							294	
318.0	323.0	Fault, broken core, considerable calcite							304	
323.0	365.0	Tuff, greenish, altered.							314	
365.0	424.0	Augite andesite, grey, medium grained some porphyritic phases.							324	
		Logged by- L.T.							334	
									344	
									354	
									364	
									374	
									384	
									394	
									404	
									414	
									424	
									Recovery-	98.2%

COLLAR

NORTH 455' SOUTH
 EAST 3230' WEST
 ELEVATION 3950'
 DIPS 45°
 BEARING- S.37° W.

DIAMOND DRILL RECORD

COMPANY TORREST RESOURCES
 PROPERTY ROSHLAND PROJECT
 LOCATION Jumbo Creek

HOLE T-4
 STARTED March 30, 1964
 FINISHED April 1st, 1964
 PURPOSE Test for re-occurrence
 of Jumbo oreshoot at depth.

FROM	TO	DESCRIPTION	SAMPLES			ASSAYS			AVERAGES	
			SAMPLE NO.	FROM	TO	WIDTH	Au	Ag	Cu	Muns
0.0	30.0	Overturden (Soiling)								
30.0	34.5	Cherty sediments							32-36 35-42	- 0.5
34.5	61.5	Andesite, dark green, a few quartz veinlets.							-46 -56	
61.5	64.0	Dike, A little biotite							-61 -71	
64.0	141.5	Andesite, dark, medium grained, some quartz veinlets, A 1" aplite dike at 90'.							-81 -91 -101 -111 -121	
141.5	142.0	Dike							-131 -141	
142.0	150.0	Andesite, dark, medium grained.							-151 -161	
150.0	152.0	Dike							-171 -181	
152.0	172.0	Andesite, dark, medium grained.							-191 -201	
172.0	176.0	Andesite, highly silicified, finer fine sulphides.	8227	172	176	4.0	Tr		-211 -221 -231	
176.0	263.0	Andesite, fine grained, with considerable biotite, 2" massive pyrrhotite at 224'							-241 -251 -268 -278	
263.0	275.5	Andesite, bleached and altered. apatite dike 275-275.5							-288 -296	

COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 DIPS _____

DIAMOND DRILL RECORD
 COMPANY _____
 PROPERTY _____
 LOCATION _____

HOLE T-4
 STARTED _____
 FINISHED _____
 PURPOSE _____

FROM	TO	DESCRIPTION	SAMPLES			ASSAYS			AVERAGES	
			SAMPLE NO.	FROM	TO	WIDTH	Ag	Ag	Cu.	Runs
278.5	286.0	Andesite, considerable biotite.								
286.0	315.0	Syenite dike								-306
315.0	339.0	Cherty siltstone or tuff, occasionally limy. Minor pyrrhotite.								-314
339.0	369.0	Ditto, highly altered with pegmatite lenses. Stacks of pyrrhotite. Banding 60° to core.								-324
										-334
										-344
										-354
										-364
										-374
369.0	372.0	Syenite dike								-384
										-394
										-404
372.0	382.0	Andesite, highly altered.								-414
										-424
382.0	385.0	Syenite dike								-434
										-442
385.0	400.0	Tuff or siltstone, banding at 60° to core at 394'								-452
										-461
400.0	401.0	Syenite dike								-471
										-481
401.0	426.0	Andesite, altered, fine grained pyrrhotite.								-491
										-501
426.0	434.0	Ditto, more pyrrhotite	8231	426	434	8.0	-	Fr	.30	-506
										End
434.0	441.0	Ditto, " "	8230	434	441	7.0	-	.01	.40	
441.0	446.0	Graphitic, limy schist, fine grained sulphides.	8226	441	446	7.0	-	.68	5.2	.036

COLLAR

NORTH 1,00'
 EAST 2,890' west
 ELEVATION 4,285'
 DIPS -30°
 BEARING- S 35° E.

DIAMOND DRILL RECORD

COMPANY TORWEST RESOURCES
 PROPERTY ROSSLAND PROJECT
 LOCATION West Slope Red Mtn

HOLE T-5
 STARTED April 6, 1964
 FINISHED April 4, 1964
 PURPOSE To test E.M. at 250' ±
 on line 2200 W. and Mag. at 100
 on line 2000 W.

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS		AVERAGES	
			SAMPLE NO.	FROM	TO	WIDTH	Au	MoS2	Runs	Shorts
0.0	6.0	Overburden (Casing)								
6.0	44.0	Tuff, greenish, some garnet and epidote. Bedding 70° to core.								6-11 -13 -16
44.0	52.0	Tuff, greenish, finely banded 70° to core.								-26 -36
52.0	65.0	Tuff, 1% pyrite and pyrrhotite.								-46 -51 0.5
65.0	90.0	Volcanic agglomerate, andesite inclusions.								-61 -71
90.0	124.0	Tuff, greenish, epidote, garnets and minor pyrrhotite, occasional inclusions.								-81 -94
124.0	128.0	Andesite dike? grey, massive.								-98 -98
128.0	138.0	Tuff, similar to above.								-107 -111
138.0	140.0	Tuff, limy, grey, 5% pyrrhotite	8232	138	140	2.0	.005	Tr		-121 -135 -142
140.0	141.5	Ditto, veinlets of MoS2	8233	140	141.5	1.5	.005	0.143		-145 -150
141.5	144.0	Ditto, grey, 5% pyrrhotite	8234	141.5	144	2.5	Tr	Tr	6.0 MoS2	-154 -163
144.0	145.0	Ditto, veinlets of MoS2.	8235	144	145	1.0	.015	0.414	5.0 MoS2	-173 -179
145.0	160.0	Tuff, grey, banded, occasional inclusions.								-186 -193 -198
160.0	163.0	Tuff, grey, 5% pyrrhotite.	8236	160	163	3.0	0.01	0.012		-205 -212

COLLAR

NORTH _____
 EAST _____
 ELEVATION _____
 DIPS _____

DIAMOND DRILL RECORD

COMPANY _____
 PROPERTY _____
 LOCATION _____

HOLE T-5
 STARTED _____
 FINISHED _____
 PURPOSE _____

FROM	TO	DESCRIPTION	SAMPLES			ASSAYS	AVERAGES	
			SAMPLE NO.	FROM	TO		WIDTH	
163.0	174.0	Tuff, grey, banding 45° to core.						
174.0	200.0	Andesite, minor pyrrhotite.						Runs Shorts
200.0	201.0	Fault zone.						212- -221
201.0	252.0	Tuff, green to brown, finely banded. pyrite, pyrrhotite about 1% and considerable epidote.						-227 -232 -235 -244
252.0	280.0	Tuff, fine grained, purplish, minor pyrite.						-254 -264 -274 -284
280.0	330.0	Tuff, greenish with purplish inclusions.						-294 -304
330.0	334.0	Andesite, brown to grey.						-314 -324 -334
		END OF HOLE						
		Recovery- 99%						
		Logged by -L.r.						

COLLAR

NORTH _____
 EAST _____
 ELEVATION _____
 DIPS _____

DIAMOND DRILL RECORD

COMPANY _____
 PROPERTY _____
 LOCATION _____

HOLE T-6
 STARTED _____
 FINISHED _____
 PURPOSE _____

FROM	TO	DESCRIPTION	SAMPLES				Au	Ag	Cu	Zn	AVERAGES		RUNS	SHORTS
			SAMPLE NO.	FROM	TO	WIDTH					ASSAYS			
188.0	193.0	Black graphitic limestone, fine sulphides.	8248	188	193	5	-Tr	Tr						
193.0	198.0	Ditto, grey, fine sulphides	8249	193	198	5	-Tr	Tr				300-	310	
198.0	201.5	Quartzite, mineralized.					.08	.30	.15				-320	
201.5	208.0	Quartzite, pyrrhotite, minor chalcocite and chalcocyanite	8250	201.5	208	6.5	5.16	1.8	.42	Tr			-340	
208.0	211.0	Black graphitic limestone	8251	208	211	3	Tr	0.50					-350	
211.0	242.0	Quartzite, micaceous, minor pyrrhotite.											-360	
242.0	255.0	Dyenite dike											-370	
255.0	273.0	Tuff, grey, limy, 2" streak of chalcocyanite @ 258'											-380	
273.0	301.0	Andesite, dark, medium grained.											-390	
301.0	344.0	Tuff, silicified, dark grey, bedding 15° to core.											-400	
344.0	370.0	Andesite, granitized & altered.											-410	
370.0	405.0	Andesite, unaltered.											-420	
405.0	431.0	Andesite with narrow tuffaceous beds at 405-406 and 415-416.											-430	
		END OF HOLE Logged by LT											-431	

Core Recovery- 99%

Check Assay on 8250- (other half of core)

1.33 ozs Au, 2.2 ozs Ag

DIAMOND DRILL HOLE No. J-8 - JUMBO MINES - TORWEST '62

ROSSLAND, B. C.

COLLAR

North	340'	South	Hole	T-8
East	3200'	West	Started	April 24, 1964
Elev.	3960'		Finished	April 29, 1964
Dips	-45°		Purpose	To check extension of T-6
Bearing	537°	West		assay zone.

0	-	57	Casing
57	-7'	78	Quartzite - light grey, light scattered sulphides.
78	-	117	Argillite - dark siliceous, minor pyrrhotite and pyrite, occ. bedding at 45° to core, fine grained.
117	-	119	Limestone - argillaceous.
119	-	197	Quartzite - reddish, altered fine mineral in pods, seams and disseminations.
		141	Calcite splash with non-magnetic black mineral.
197	-	210	Argillite - black, fine mineral, cut by numerous fine calcite veinlets, contact with quartzite at 40° to core.
210	-	248	Quartzite - becoming spotted and reddish from 230I on, fine mineral.
248	-	272	Augite Andesite - greenish, trace mineral.
272	-	286	Tuff - with some intercalated augite andesite, light mineral.
286	4	296	Syenite Dyke
296	-	302	Quartzite
302	-	316	Tuff - light pink to grey, cut by epidote and quartz stringers, tr. mineral along fine fractures and also disseminated.
316	-	341	Quartzite - with intercalated tuff beds.
		318	5" moderate pyrite, sl. pyrr.
341	-	345	Tuff - light grey, local mineral.
345	-	355	Quartzite - tuffaceous.
355	-	362	Argillite - black, pyrite stringers.
362	-	365	Quartzite.
365			END OF HOLE.

DIAMOND DRILL HOLE No. I-8 - JUMBO MINES - TORWEST 162

ROSSLAND, B. C.

RESULTS OF ASSAYS - April 29, 1964.

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Au.</u>	<u>Ag.</u>
8273	211	213	0.03	0.35
74	213	215	0.01	0.20
75	215	217	0.01	0.25
76	217	219	0.005	0.20
77	219	221	0.005	0.10
78	221	223	0.005	0.20
79	223	225	0.01	0.10
80	225	227	0.015	0.25
81	227	229	0.005	0.20
8285	317.5	320	0.03	0.20
86	325	327	0.005	0.10
87	327	332	0.005	0.20
88	332	337	0.005	0.10
89	337	342	0.03	0.20
90	342	347	0.01	0.25
91	347	355	0.005	0.10
92	362	365	Tr.	0.10

SLUDGE SAMPLES - April 29, 1964.

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Au.</u>	<u>Ag.</u>
15201	40	50	0.005	
02	50	60	0.005	
03	60	73	0.01	
04	73	83	0.005	
05	83	93	Tr.	
06	93	103	Tr.	
07	103	113	0.005	
08	113	123	0.01	
09	123	133	0.015	
10	133	143	0.02	
11	143	153	0.01	
12	153	163	0.005	
13	163	173	0.005	
14	173	183	Tr.	
15	183	193	0.01	
16	193	203	0.005	
17	203	213	0.005	
18	213	223	0.005	
19	223	233	0.015	
20	233	243	0.02	
21	253	263	0.03	
22	263	273	0.04	
23	273	283	0.02	

(Water lost at this depth)

COLLAR CO-ORDS

NORTH _____
 EAST _____
 ELEVATION _____
 DIP 45 _____
 BEARING _____

DIAMOND DRILL RECORD

COMPANY TORWEST _____
 PROPERTY ROSSIAND _____
 LOCATION JUMBO MINE _____

HOLE T-9 _____
 PAGE 1 _____
 STARTED May 21, 1964 _____
 FINISHED May 26, 1964 _____
 LOGGED BY WGH _____
 PURPOSE To test north extension of
 T-6 Intersection

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS		SLUDGE			ASSAYS	
			TAG NO.	FROM	TO	WIDTH	Au	Au	TAG NO	FROM	TO	Au	
0	87	Casing							15283	91	100	.02	
									84	100	110	.015	
									85	110	120	.06	
87	125	Quartzite - granitized to g8' light grey pyrr-pyrite mineralization	15360	120	122	2	.07	.30	86	120	130	.425	.425
			61	122	124	2	.015	.40	87	130	140	.005	
125	177	Argillitic - Occ. tr. min. banded @ 40 to core @ 155-12" quartzite from 168-171 - siliceous section	62	124	126	2	.07	.10	88	140	150	.005	
			63	126	128	2	.01	.10	89	150	160	Tr.	
			64	128	130	2	.015	.10	90	160	170	.005	
177	204	Tuff-mineralized veinlets, locally chertitic some reddish sections							91	170	180	.01	
									92	180	190	.15	.15
204	219	Quartzite - gneissic, with hornblende							93	190	200	.06	.06
									94	200	210	.015	
219	232	Quartzite light grey							95	210	220	.01	
									96	220	230	.01	
232	235	Quartzite - gneissic							97	230	240	.005	
									98	240	250	.005	
235	244	Andesite - dark, tr. mineral							99	250	260	Tr.	
									5300	260	270		
244	258	Syenite Dyke							17201	270	280		
									02	280	290		
258	265	Andesite							03	290	300		
									04	300	310		
265	280	Tuff-pyroclastic material							05	310	320		
									06	320	330		
280	312	Tuff-fine grained, siliceous, locally agglomeritic, greyish colour @255 - 12" quartzose section with mineral							07	330	340		
									08	340	350		
									09	350	360		
									10	360	370		

COLLAR CO-ORDS

NORTH 113° 17'
 EAST 113° 17'
 ELEVATION 1000
 DIP - 62° 30'
 BEARING S 43° 17' W

DIAMOND DRILL RECORD

COMPANY TERRACON RESEARCH
 PROPERTY Roanoke, E.C.
 LOCATION Jumbo Mine

HOLE T - 10PAGE 1STARTED May 9, 1964FINISHED May 12, 1964LOGGED BY M.G. H.

PURPOSE To test down dip extension
 of T-6 intersection.

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS			SLUDGE			ASSAYS		
			TAG NO.	FROM	TO	WIDTH	Au	Ag	Cu	TAG NO	FROM	TO	Au	Ag	
0	54	Gash								1522	52	60	0.005		
										25	60	70	0.02		
										26	70	80	0.02		
										27	80	90	0.02		
54	75	Quartzite- light grey, differential alteration occ. magnetite, minor chlorite								28	90	100	0.015		
75	82	Quartzite- dark, no alteration, locally calcareous 65-82' - highly calcareous								29	100	110	0.015		
82	83	Syenite- micaceous								30	110	120	0.005		
83	105 ⁵	Limestone- dark, bedded (60° to core, tr. mica)								31	120	130	0.015		
										32	130	140	0.005		
105 ⁵	111	Quartzite- light grey to dark, 60° banding								33	136	146	0.005		
										34	146	156	Tr.		
111	118	Syenite Dyke- with quartzite inclusions								35	156	166	0.015		
										36	166	172	0.02		
118	133	Tuff- varicoloured, roughly banded								37	172	182	0.005		
										38	182	191	0.005		
133	161	Andesite- dark, micaceous								39	191	200	Tr.		
										40	200	210	0.005		
161	165	154- 161 qtz-pyrite vein (40° to core) Syenite-contact at 50° to core	15313	163 ⁵	164 ⁵	1	0.01			41	210	220	0.01		
										42	220	230	0.015		
165	170	Quartzite- cut by numerous pyrite veinlets								43	230	240	0.01		
										44	240	250	0.01		
170	190	Andesite-								45	250	260	0.005		
										46	260	270	0.01		
		181- cross-cutting qtz veinlets	15314	181	183	2	0.005			47	270	280	0.15		
										48	280	290	0.03		
190	194	Argillite- black, massive								49	290	300	0.15		
										50	300	310	0.44		
										51	310	320	0.08		

COLLAR CO-ORDS

NORTH _____
 EAST _____
 ELEVATION _____
 DIP _____
 BEARING _____

DIAMOND DRILL RECORD

COMPANY _____
 PROPERTY _____
 LOCATION _____

HOLE T-11
 PAGE 2
 STARTED _____
 FINISHED _____
 LOGGED BY _____
 PURPOSE _____

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS	SLUDGE			ASSAYS	
			TAG NO.	FROM	TO	WIDTH		TAG NO	FROM	TO	Ass	
169	172	Andesite - amygdaloidal					15280	270	280	005		
							81	280	290	01		
							82	290	300	02		
172	174	Syenite Dyke - white medium grained										
174	177	Andesite - amygdaloidal										
177	178	Syenite Dyke										
178 ⁵	193	Tuff light grey, local reddish sections										
		bedded from flat to 60° fine mineral										
193	210	Argillite - black fine grained										
210	222	Tuff - with interbeds of argillite, locally well mineralized with arsenopyrite and pyrite.										
222	231	Quartzite - medium grained										
231	235	Tuff - light grey, moderately mineralized										
235	242	Quartzite - minor mineral										
242	270	Tuff - light coloured, well mineralized										
270	277	Quartzite										
277	300	Tuff - locally chloritic, mineralized, bedded @ 60° to core										

300 - - - - END OF HOLE