

5565I

92I/8W

GEOLOGICAL REPORT ON THE
STUMP LAKE PROPERTY
NICOLA MINING DISTRICT, B.C.

for

JUNIPER MINES LTD. (N.P.L.)

92I/8W

CLAIMS: JENNY LONG
KING & WILLIAM
NO SURRENDER

Situated 27 miles northeast of Merritt, B.C.
50° 18' N Latitude; 120° 22' E Longitude

Owner: C.F. Graham

: William Takeshita

Submitted by: Frederica Shnay, Geologist

Endorsed by: R. Philp, P. Eng.

Work Conducted by: Agilis Engineering Ltd.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5565	MAP
PART I	

GEOLOGICAL REPORT ON THE
STUMP LAKE PROPERTY
NICOLA MINING DISTRICT, B.C.
for
JUNIPER MINES LTD. (N.P.L.)

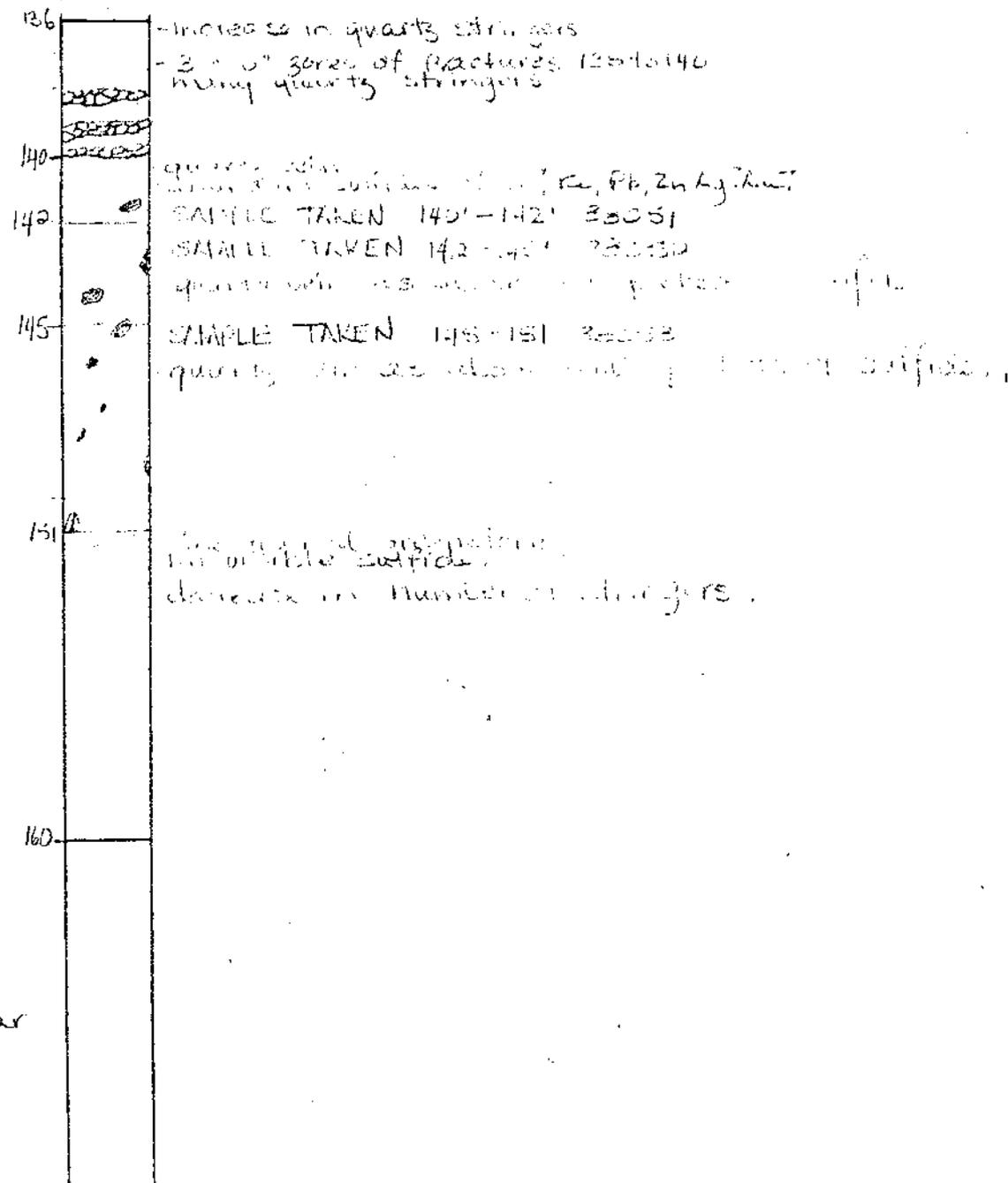
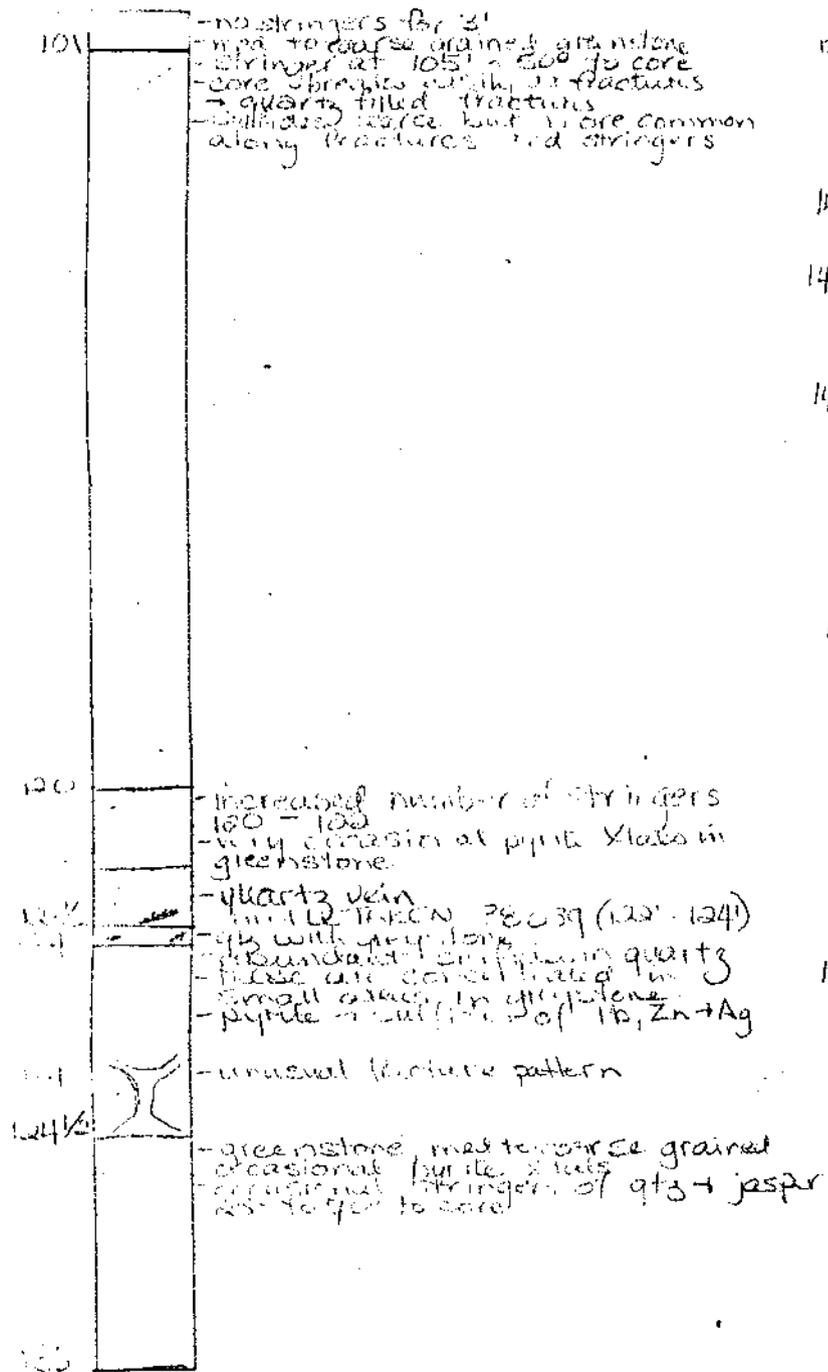
Vancouver, B.C.
August 18, 1975

Frederica Shnay
Geologist

KING WILLIAM

August 8, 1975

1" = 5'



COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 AZIMUTH _____
 DIP 45°
 LEVEL _____

Agilis Exploration Services Ltd.

PROJECT _____
 HOLE NO. KING WILLIAM #3
 COMMENCED August 6 1975
 COMPLETED August 8 1975
 PURPOSE OF HOLE _____

DIAMOND DRILL RECORD

1 of 3

DESCRIPTION		CORE SAMPLES				ASSAYS			WIDTH & ASSAY		COMMENTS
FROM	TO	FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ		WxAu	WxAg	
0	8										
											- greenstone - fine to med. grained - poor recovery (2' of core for 8' drilling) - no visible sulfides
8	24										
											- greenstone - fine to med. grained - poor recovery (5' of core for 16') - no visible sulfides
24	28										
											- greenstone, becomes ^{becomes} layer-like with dark grey inclusions entire rock becoming dark grey by 28 feet
28	35										
											- green to light grey friable clayey ^{not} compact with ~ clear zone(?) - dipping at 10° - 15° to core - no visible sulfides
35	37										
											- greenstone, med. grained, increasing compactness - grey amount decreasing
37	39	37	39		38036	0.003	0.15	cu			
											- greenstone ^{with} very plastic green staining - very fine grained
39	40										
											- greenstone, med. grained - visible sulfides small black inclusions - quartz stringer 10° to core
40	44										
											- very fine grained greenstone - some pyrite (individual K-felds) - fracturing varying from 45° to 90° - also visible with thin

COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 AZIMUTH _____
 DIP _____
 LEVEL _____

Agilis Exploration Services Ltd.

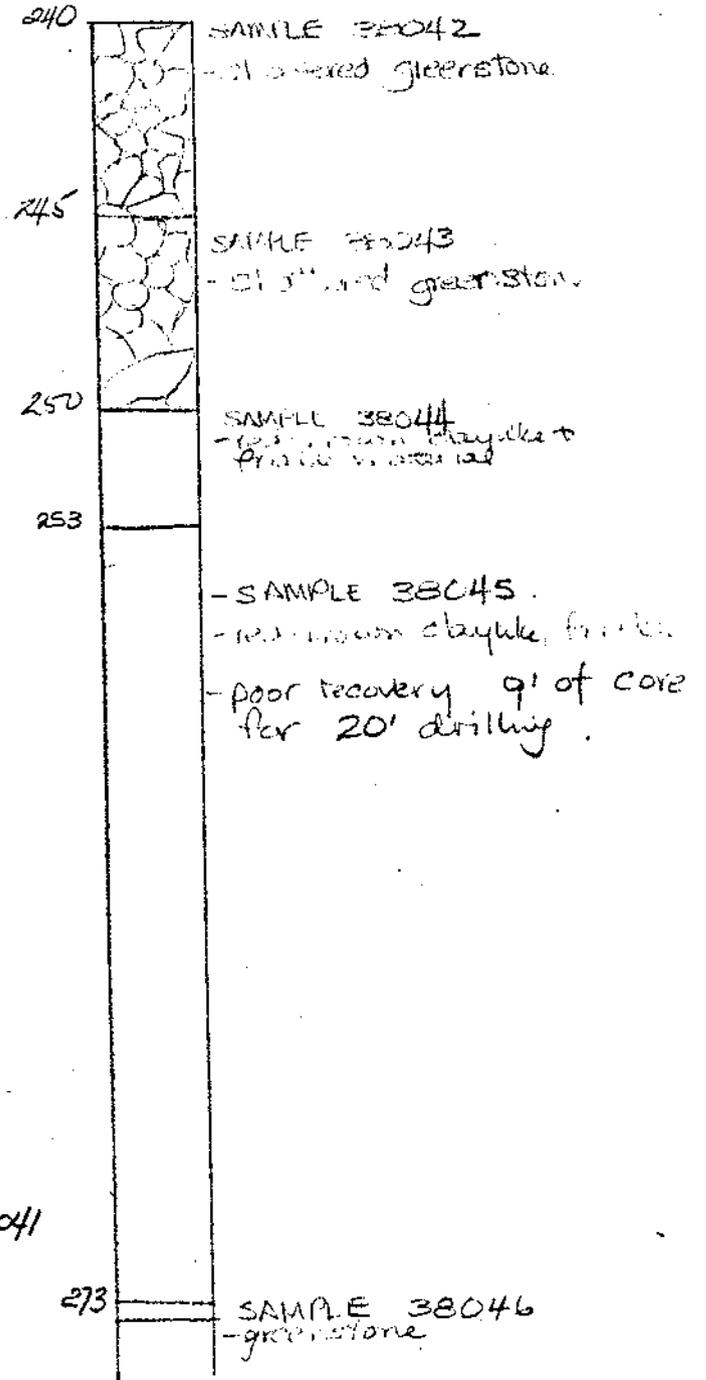
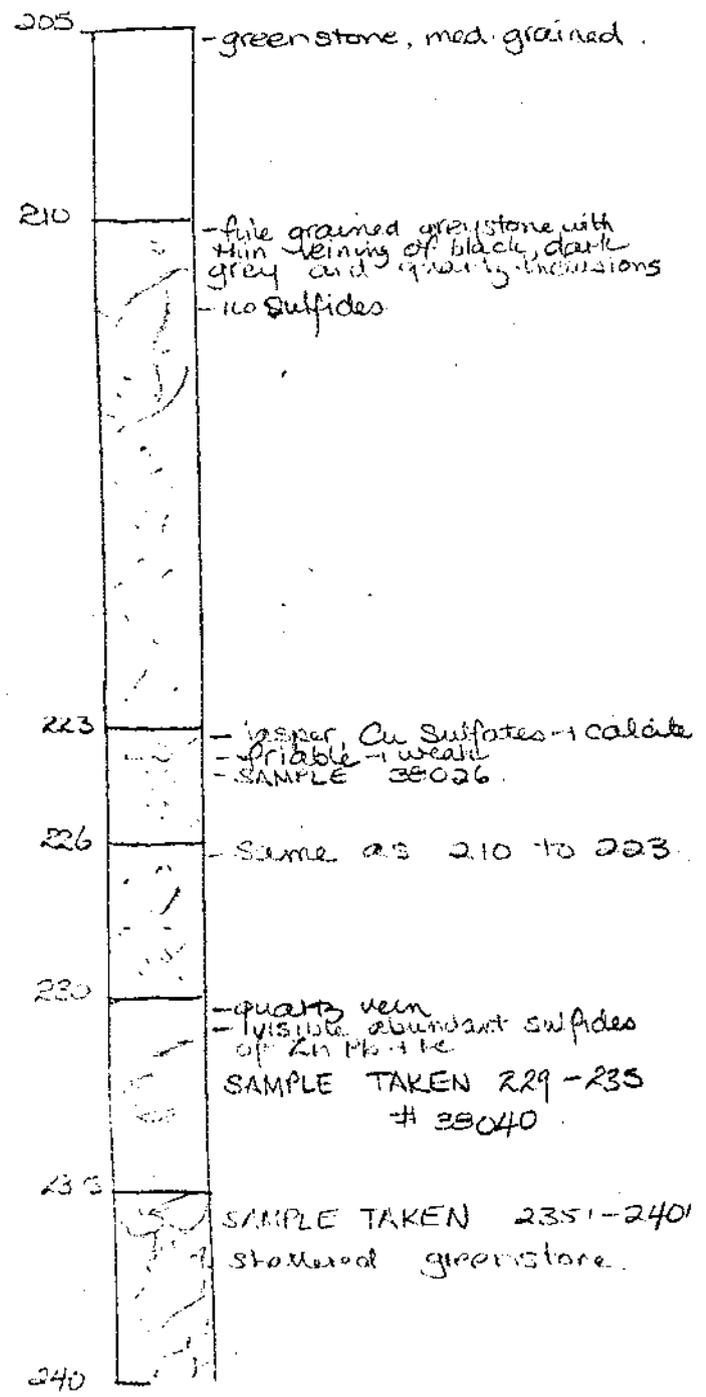
PROJECT _____
 HOLE NO. King William
 COMMENCED 6 Aug
 COMPLETED 8 Aug
 PURPOSE OF HOLE _____

DIAMOND DRILL RECORD

4 of 5

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		WIDTH & ASSAY		COMMENTS
			FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ	WxAu	WxAg	
99	99 1/2	- quartz vein 6" long at 55° to core 1/2 qtz, calcite, greenstone & light grey stone - sulfides predominantly pyrite scattered individual & also small clusters	99	99 1/2		38038	.005	.01			
99 1/2	101	- same as before, vein but stringers decrease away from vein to 101									
101	122	- no stringers for 5 feet - medium to coarse grained greenstone - stringers at 105' at 50° to core - core breaks easily at fractures & qtz stringers - sulfides scarce but more common on fractures & stringers - med. to coarse grained greenstone - stringers increasing in frequency 120' to 122' - very occasional pyrite & calcite									
122	123 1/2	greenstone		123 1/2							
123 1/2	124	- quartz vein (23 1/2) quartz with greenstone abundant sulfides in qtz - these are concentrated in small areas in the greenstone. - pyrite & sulfides of Pb, Zn & Ag.	122	123 1/2		38037	.04	.005			

Jenny Long Drill Hole
 Aug. 2, 1975
 Shinsky
 1" = 5'



shattered zone

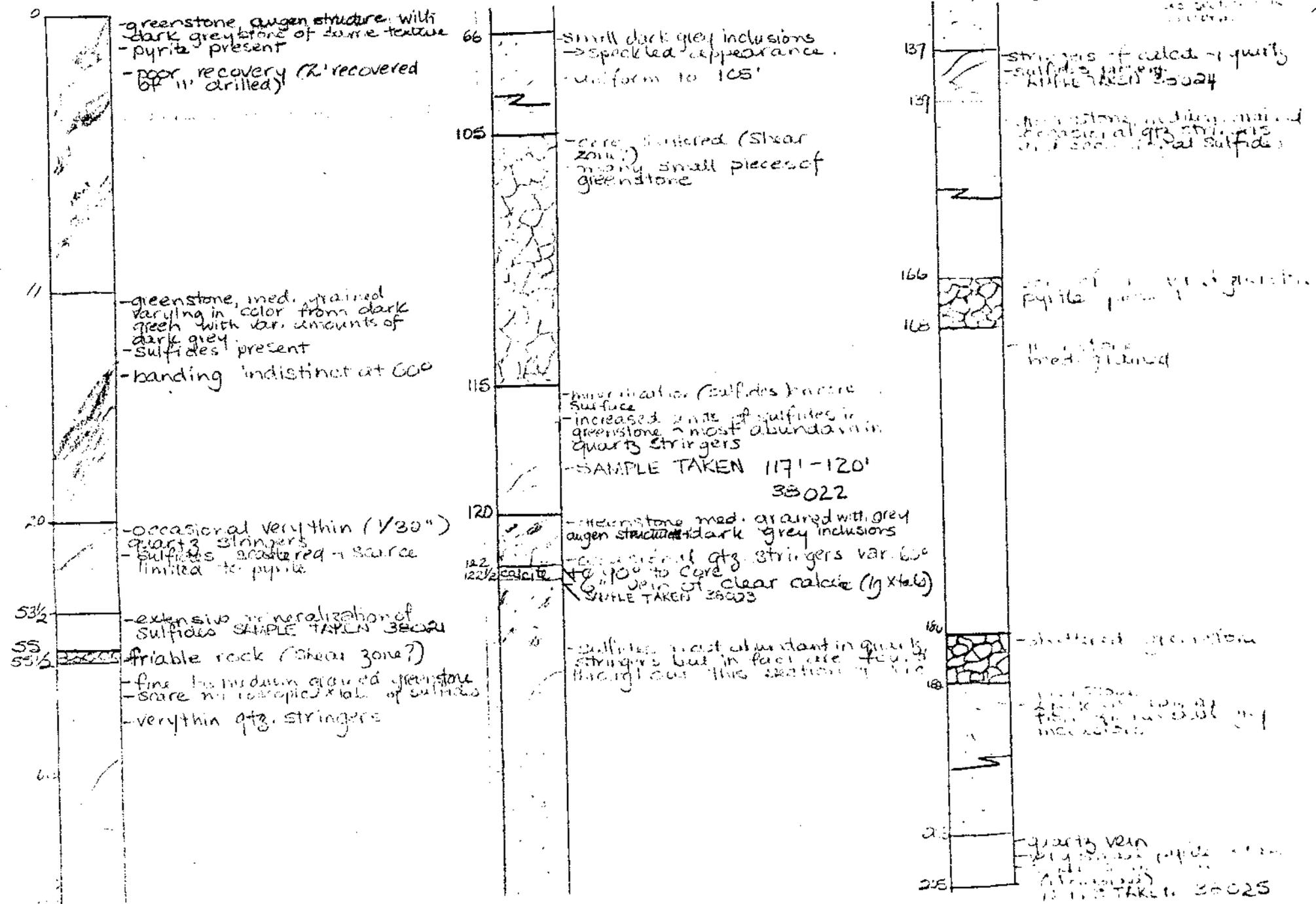
Jenny Long Drill Hole

August 2, 1975

Shinarump

1" = 5'

Some are small
thin veins
of sulfides
in matrix



COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 AZIMUTH _____
 DIP _____
 LEVEL _____

Agilis Exploration Services Ltd.

PROJECT Jimmy long
 HOLE NO. _____
 COMMENCED July 23
 COMPLETED July 28
 PURPOSE OF HOLE _____

DIAMOND DRILL RECORD

293

		DESCRIPTION	CORE SAMPLES				ASSAYS				WIDTH & ASSAY		COMMENTS	
FROM	TO		FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ				WxAu		WxAg
115	137	greenstone sulfides most abundant in quartz stringers but in fact are ubiquitous throughout this section of core.	117	120		38022	<.003	<.01						
	122	6" vein of calcite (only lg. ^{near} calcite stals in core)	122	122 1/2		38023	<.003	<.01						
127	139	stringers of calcite & quartz sulfides present	137	139		38024	<.003	<.01						
139	166	greenstone, medium grained occasional gty stringers & occasional sulfides												
166	168	zone of scattered greenstone pepites present												
168	180	greenstone, med. grained												
180	182	shaded greenstone												
182	203	greenstone, having speckled appearance due to dk grey small inclusions												
203	205	quartz vein very small pepite & stals sulfides present in Cu sulfides (sulfate?) & stals [] shape small amounts	203	205		38025	<.003	.04						

COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 AZIMUTH _____
 DIP _____
 LEVEL _____

Agilis Exploration Services Ltd.

PROJECT Jenny Long
 HOLE NO. _____
 COMMENCED July 23
 COMPLETED July 28
 PURPOSE OF HOLE _____

DIAMOND DRILL RECORD

3 of 3

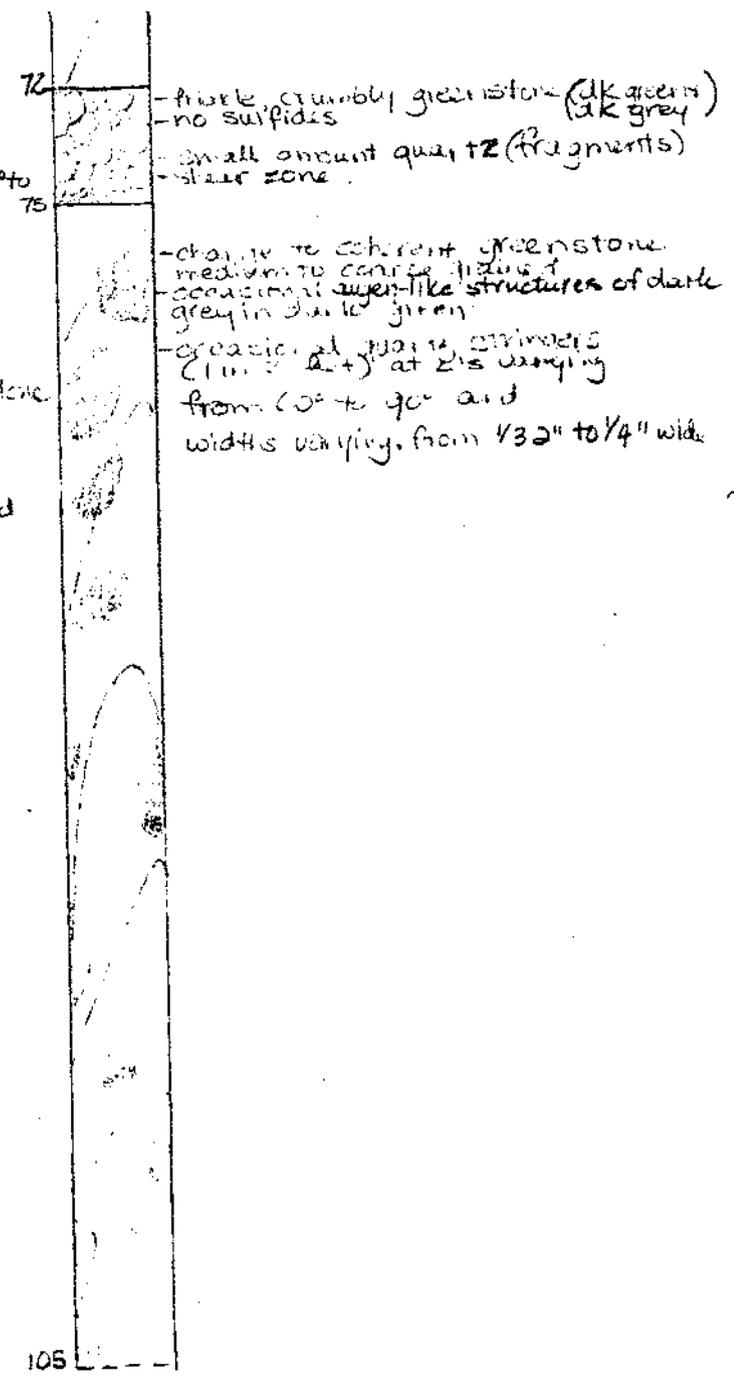
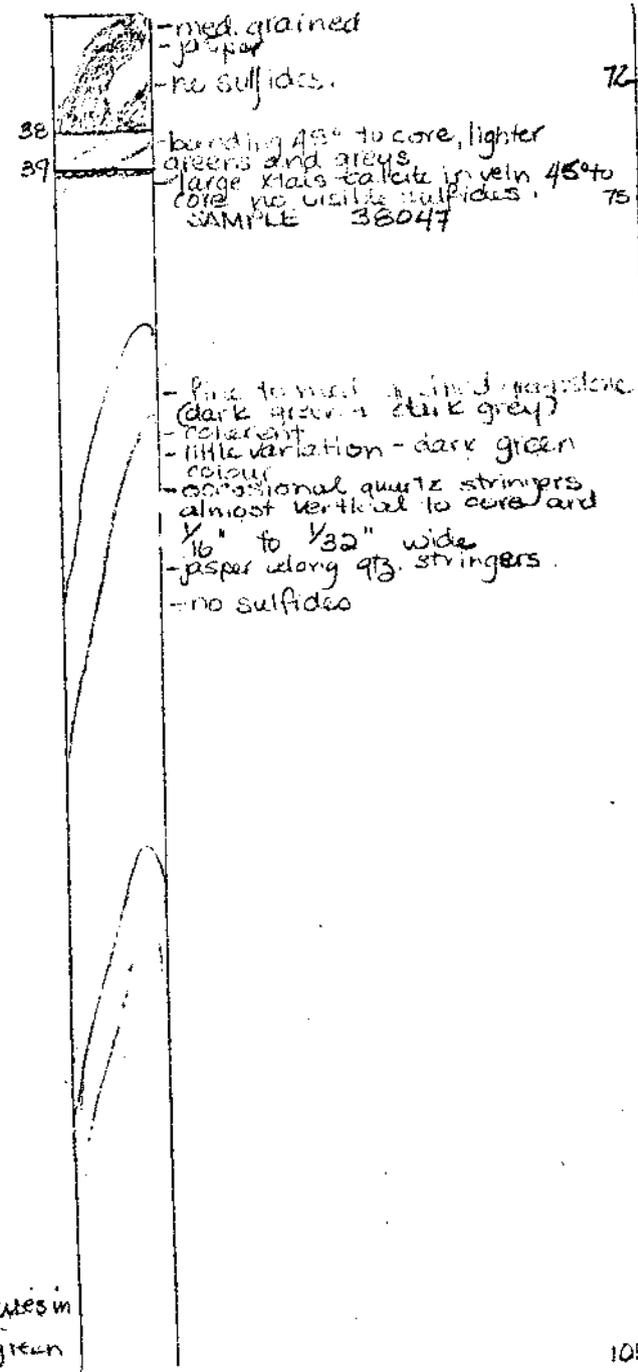
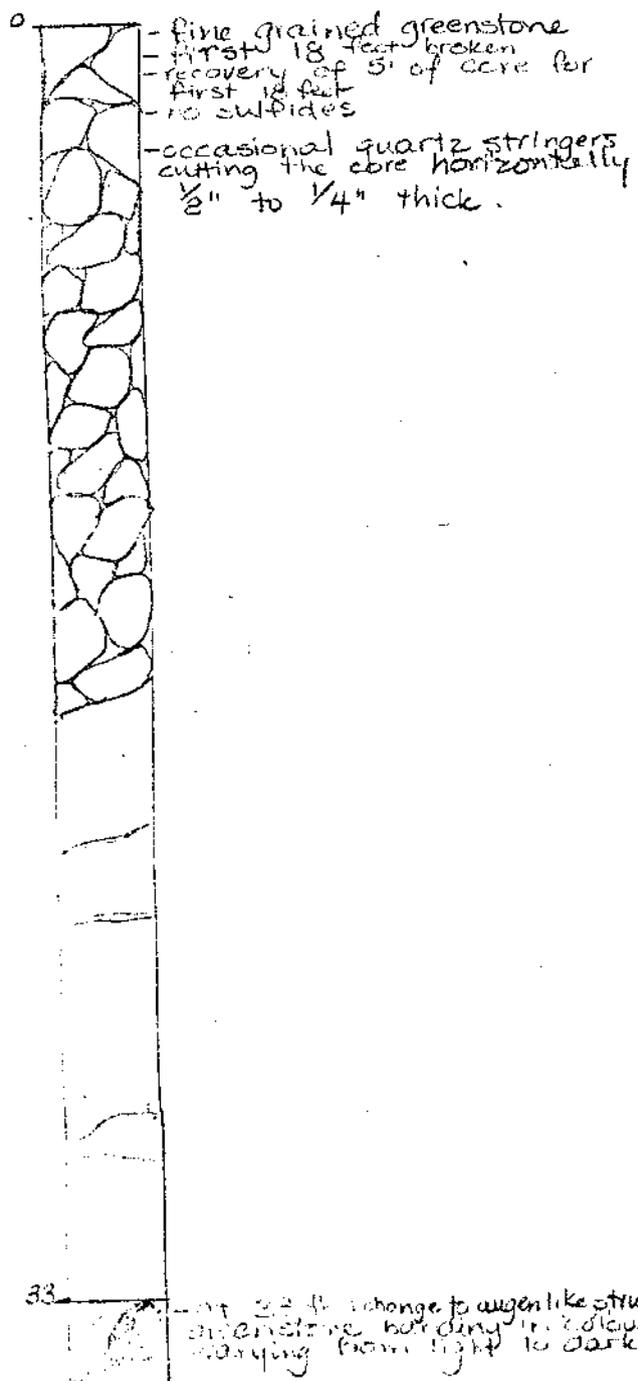
		DESCRIPTION	CORE SAMPLES				ASSAYS				WIDTH & ASSAY		COMMENTS
FROM	TO		FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ			WxAu	WxAg	
205	210	quartzstone, medium grained											
210	223	fine grained quartzstone with thin veining of black, dk grey qtz inclusions - no visible sulfides											
223	226	sd, iron oxide coloured rock weak friable, small veins calcite & copper sulfates	223	226		38026	1.003	-	Cu				
226	229	fine grained quartzstone with thin veining of black, dk grey qtz inclusions											
229	235	quartz vein visible, plentiful sulfides of Zn Pb & Fe	229	235		38040	.022	1.03	Cu	Pb	Zn		
235	240	shear or fault zone, shattered quartzstone	235	240		38041	.014	.58	Cu	Pb	Zn		
		poor recovery of core	240	245		38042	.030	2.43	Cu	Pb	Zn		
		broke 2 drill bits	245	250		38043	.003	.01	Cu	Pb	Zn		
250	273	sd-brown clay like material friable, crumbly - poor recovery from 23' of depth only 9' core recovered	250	253		38044	1.003	.01	Cu	Pb	Zn		
		end of core, quartzstone	253	273		38045	1.003	1.01	Cu	Pb	Zn		
273			273			38046	.003	.12	Cu	Pb	Zn		

AD4 #2

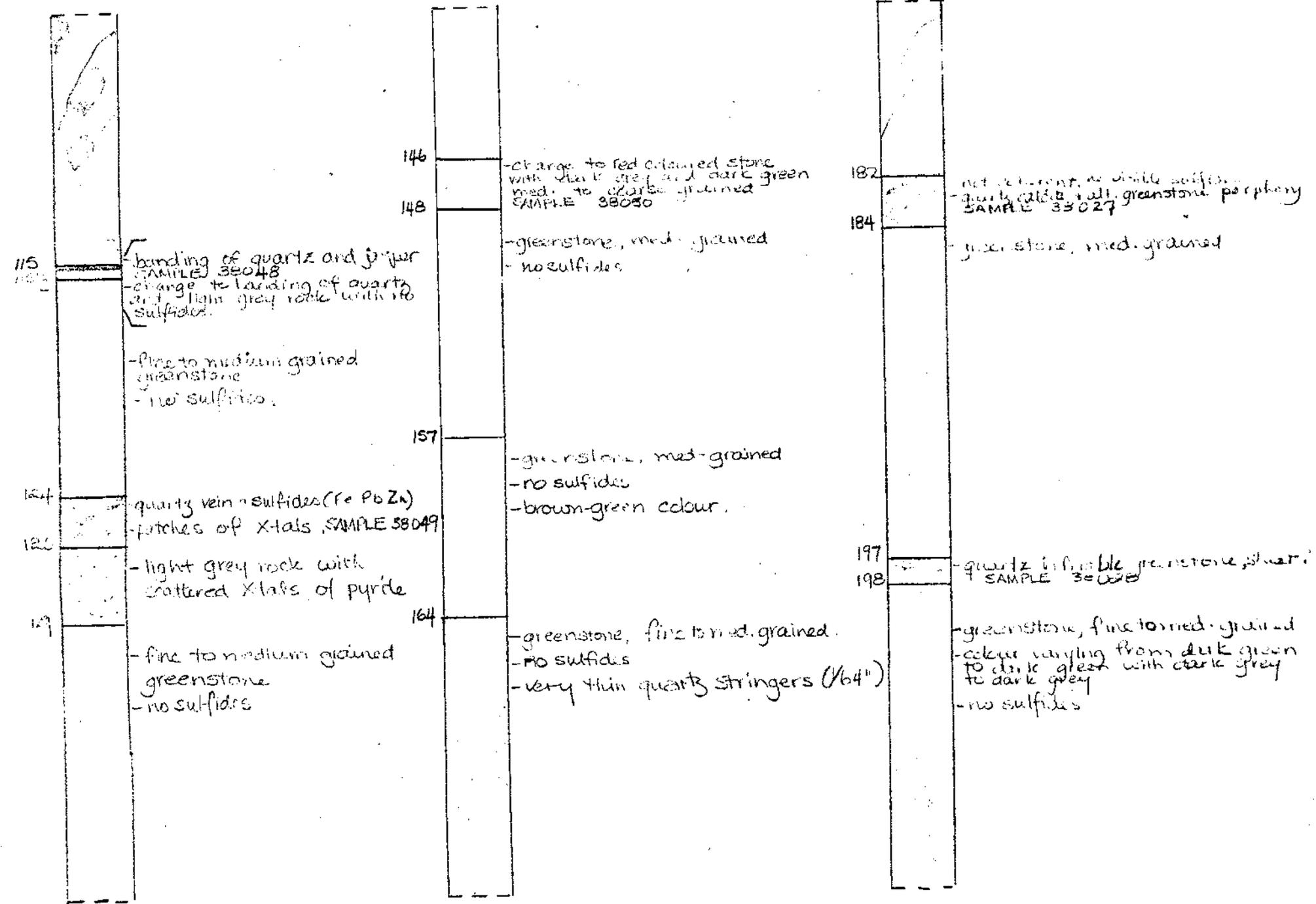
45° ~ 351'

Shiny Aug 2/75

1" = 5'

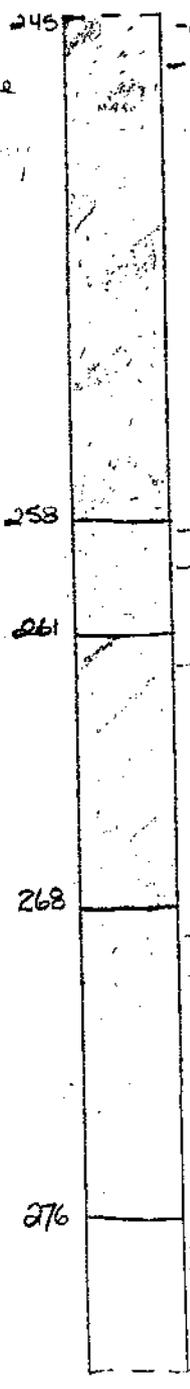


STUMP LAKE
 45° ~ 351'
 Shmay Aug 2 1975
 1" = 5'





-as description above
 fine to med. grained greenstone
 var. colour - dk green to
 dk green + dk grey to dk
 grey



-coarse grained greenstone
 -with small dark grey
 inclusions

258 -light grey banding
 -sulfides 7-10%
 SAMPLE 38035

261 -dark grey banded stone

268 -turquoise (Cu staining) with
 occasional sulfides
 -small dk grey inclusions

SAMPLE 38030 (268)

276 -medium grained greenstone
 -Cu staining
 colour var. from green to
 dk grey



-description at 276

← 6' part was missing in 230
 to core

-medium grained greenstone
 -colour var. from green to
 green grey

at 20' zone lined with brown friable
 chert

-med. grained greenstone
 -colour var. from green to grey
 to 351'

COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 AZIMUTH _____
 DIP 45°
 LEVEL _____

Agilis Exploration Services Ltd.

PROJECT Stump Lake
 HOLE NO. _____
 COMMENCED July 20
 COMPLETED August 15
 PURPOSE OF HOLE _____

P2014

DIAMOND DRILL RECORD

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS				WIDTH & ASSAY		COMMENTS	
			FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ						WxAu
75	115	-change to coherent rock -occasional ^{aspen-like structures} of dk gray to dark green -med. to coarse grained -occasional (1 in 3 feet) -quartz stringers 1/32" to 1/4" wide -variable angles from 60° to 90°												
115	115 1/2	this band is dark red brown rock with quartz												
		-to banding of -qtz + lt. grey rock with no visible sulfides	115	115 1/2"		38048	.003	4.01						
115 1/2	124	fine to med. grained greenstone no visible sulfides												
124	126	beginning of quartz veins with visible sulfides - pyrite, chalc, zinc sulfides	123	127		38049	.003	4.01						
126	129	lt. grey rock with scattered Xals of pyrite												
129	146	change to red brown rock with scattered Xals of pyrite fine to med. grained greenstone no visible sulfides												
146	148	-change to red coloured stone with dark grey + dark green med. to coarse grained	146	148		38050	.016	.76						

COLLAR
 NORTH _____
 EAST _____
 ELEVATION _____
 AZIMUTH _____
 DIP 45°
 LEVEL _____

Agilis Exploration Services Ltd.

PROJECT Stump Lake
 HOLE NO. 1
 COMMENCED July 30
 COMPLETED August 1st
 PURPOSE OF HOLE _____

DIAMOND DRILL RECORD

p. 3074

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS				WIDTH & ASSAY		COMMENTS	
			FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ			WxAu	WxAg		
1-18	157	greenstone, med. grained, no visible sulfides												
157	164	greenstone, med. grained, no visible sulfides - brownish - green colour												
164	182	- greenstone, med. to fine grained - no visible sulfides - very thin qtz stringers (1/64")												
182	184	- not very colored - no visible sulfides	182	184		38027	4.003	.01						
184		- quartz, calcite & altered greenstone - porphyritic greenstone	184											
184	197	- greenstone, med. grained												
197	198	quartz in friable cumby greenstone	197	198		38028	4.003	.01						
198	243	- greenstone, fine to med. grained - colour varying from dark green, to dark grey with dark grey to dark grey - no visible sulfides												
243	258	- greenstone fine grained with small, dark grey inclusions - coarse grained												
258	261	- light grey banded - sulfides 7-10%	258			38035								
261	268	- dark grey banded												
268	270	- tan, (noise colouration) with sulfides	268			38030	4.003	.01						

July 30 to Aug 1st

Agilis Exploration Services Ltd.

DIAMOND DRILL RECORD

PROJECT: *Stump Lake - Juniper mine*

HOLE NO: *2*

PAGE: *4/14*

		DESCRIPTION	CORE SAMPLES				ASSAYS				WIDTH & ASSAY		COMMENTS
FROM	TO		FROM	TO	WIDTH	SAMPLE NO.	Au OZ	Ag OZ			WxAu	WxAg	
<i>268</i>	<i>276</i>	<i>continued</i>											
		<i>-dark grey small inclusions</i>											
<i>276</i>	<i>301</i>	<i>-at 286 - 1 1/2" quartz veins having banding with in. at 60° to core</i>											
		<i>-no visible sulfides.</i>											
		<i>-CuSO4 (Tungstic) coloration staining</i>	<i>284</i>			<i>380.31</i>	<i>4.003</i>	<i><.01</i>	<i>cm</i>				
		<i>-quartzite, medium grained</i>											
		<i>near colour green to green grey to end of core at 357</i>											
<i>312</i>	<i>312 1/2</i>	<i>shear zone dk. red brown friable + clayey core</i>											
	<i>351</i>	<i>as before 312'</i>	<i>330</i>	<i>330 1/6"</i>		<i>380.29</i>	<i><.003</i>	<i>.01</i>	<i>cm 1/4</i>				

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GEOLOGICAL REPORT
on the
STUMP LAKE PROPERTY
KAMLOOPS MINING DISTRICT, B.C.

1-00 SUMMARY

The Stump Lake property of Juniper Mines Ltd. lies 27 miles northeast of Merritt and 30 miles south of Kamloops, British Columbia. The property was acquired by Juniper Mines Ltd. in April, 1974.

Present mapping and geochemical soil sampling on the property was conducted by Ms. F. Shnay under the supervision of Mr. R. Philp. A 100 x 100 foot grid was established in central and northern sections of the property for ground control. Drilling of one hole at each three claim sites (Jenny Long, No Surrender and King William) was carried out as well.

The objects of the geochemical mapping and drilling programs were to provide more detailed information regarding the occurrence of veins and to clarify the geological setting and economic potential of the Jenny Long, No Surrender and King William claims.

The property is underlain by greenstone, a member of the Nicola volcanics and Upper Triassic Age.

The vein systems mapped are normally associated with shear zones and alteration zones cutting the greenstone.

Single veins were found to vary in thickness over a distance of several hundred feet from less than an inch to several feet. Branching and variation of strike within individual veins is common. Sampling conducted

shows the grade varies from trace to .272 ounces gold, trace to 11.76 ounces silver.

The attitude and trend of the veins indicates that all vein exposures found on the property are part of the same fracture system.

2-00 CONCLUSIONS

1. Veins mapped and sampled in the northern portions are exposed in trenches, stripped (bulldozed) areas, and in blasted areas. All of these veins cut the greenstone bedrock and are associated with shearing and alterations of the greenstone.
2. The No Surrender and King William veins appear to be branches and/or the Southern Extension of the Enterprise vein system.
3. The Jenny Long and Azela veins appear to be branches of the same system.
4. The veins pinch and swell, and have an attitude varying from N 15 W to N 30 E, 55° to 75° E.
5. The grade is variable but when visible sulfides occur within the vein material, gold and silver values are usually high.

3-00 INTRODUCTION

The Stump Lake gold property of Juniper Mines Ltd. consists of 48 reverted Crown Granted Mineral Claims and 60 additional claims by location. The property is located south of Stump Lake approximately half-way between Kamloops and Merritt.

This report is based on detailed geological mapping, sampling, drilling and geochemical work by Ms. F. Shnay under supervision of Mr. R. Philp.

A total of 18.8 line miles of grid lines, 100 x 100 feet were established for the mapping of Jenny Long, No Surrender and King William Claims and a total of 1.1 line miles of grid lines 100 x 100 feet were established for the geochemical sampling of the Azela Claim.

4-00 GEOGRAPHY

4-10 Location and Access

The property referred to in this report is located just south of Stump Lake, approximately half-way (30 miles) between Merritt and Kamloops, B.C. Co-ordinates of the property are 50° 18' N Latitude 122° 22' E Longitude. Access is by Highway No. 5 from Merritt, then by various dry weather secondary roads which traverse the property.

4-20 Physiography and Climate

Relief throughout the claims is gentle to moderate, with elevation averaging approximately 3,500 feet above sea level. The higher elevation outcrop and rubble areas are sparsely treed mainly with Ponderosa pine, fir and juniper, the areas of thick till are treed by poplar as are open grazing land. There is a wide variety of grasses and flowers as summers are hot, (July temperatures sometimes exceeding 48° C) and dry, while winters are cold. Precipitation is approximately 10 inches per year. Snow is present in winter, mainly in the valley areas where drifts sometimes occur to three or four feet in

depth. Hill tops are practically snow-free. There are several small creeks traversing the area but all of these are ephemeral and dry by mid-summer with the exception of Peter Hope Creek.

5-00 PROPERTY

The Stump Lake property consists of the following 48 reverted Crown Granted mineral claims and fractions now held by mineral leases and 59 staked mineral claims:

<u>Group</u>	<u>Lot #</u>	<u># of Acres</u>	<u>Record #</u>
Gentle Annie	5891	20.66	59396
Sheelah	5129	46.18	59429
M. Franction	5124	34.44	59428
L. Fraction	5123	40.80	59427
Lee No. 8	5122	51.65	59426
Nels Fr.	5115	23.84	59425
Maybelle Fr.	5114	21.11	59424
IXL No. 6	5111	41.57	59423
Eileen O. Fr.	5105	47.81	59422
E. Fraction	5098	32.17	59421
Raven	5097	51.31	59420
Early Bird	5086	51.10	59419
Thistle Fr.	5085	42.09	59418
Moon	5084	51.65	59417
Sun	5083	51.65	59416
Ruby M. Fr.	5080	27.51)	
Star Fr. N. 1	5081	10.66)	59425

Raven No. 2	5079	51.69	59414
Jessie B	5078	51.65	59413
Marion C. Fr.	5077	39.29	59412
Georgina M. Fr.	5076	9.64	59411
Ester M. Fr.	5075	44.50	59410
C. Fr.	5059	16.18	59409
Day Star	4111	51.64	59408
Entente Cordial	4110	51.65	59407
New Emblem	4109	51.65	59406
Planet Ext.	4108	50.73	59405
New Star #2 Fr.	4106	26.95	59403
Silver King Ext.	4107	51.64	59404
Silver Star	4104	44.91	59402
Silver King #2	4013 4103	51.28	59401
Planet #1	4102	51.65	59400
Big Sandy	637	20.66	59399
* No Surrender	591	19.50)	
* King William	592	20.50)	59398
Belle Scott	590	20.40	59397
* Jenny Long	718	20.66	
Garden 1	5046	34.79	
Garden 2	5093	49.83	
Garden 3	5094	42.80	
Garden 4	5095	50.95	
Garden 5	5096	51.65	
Scotia	5092	49.83	
Wren	5043	51.57	
Brian	5091	49.81	
Dorothy	5047	31.15	

Bluebird	5042	44.30
Clara B	5045	24.81
Parkview 3	5041	32.39
* Azela	692	20.66

6-00 HISTORY

During the early 1900's gold-silver quartz veins carrying considerable values in gold-silver-lead-zinc and copper as well as scheelite were explored in the Stump Lake area. The main company operating in the area was the Consolidated Nichola Goldfield Ltd. or Stump Lake Gold Mines. Most of the work was concentrated on the Enterprise, King William, Tubal Cain, Joshua, Jenny Long and Johannesburg. The Jenny Long was separated from the main block of claims and was operated under the name of Jenny Long or Kootenay Nevada Mines Ltd.

Production figures for the mining camp, as reported by the Department of Mines of British Columbia, are a total of 77,605 tons of ore mines, yielding 8,494 ounces of gold, 252,939 ounces of silver, 40,822 pounds of copper, 2,206,555 pounds of lead and 367,869 pounds of zinc. This production was in the period from 1916 to 1944.

From 1939-1944 minor tonnage of scheelite was recovered from the tailings. Nearly all this reported production is considered to have come from the Enterprise and King William claims. On the Jenny Long property, Consolidated Nichola Goldfields Ltd., established a 35-ton mill in the mid-1930's, but no production records are

available. The minerals recovered were gold and silver. In numerous reports reference is made to the presence of lead, zinc, copper and tungsten.

Juniper Mines Ltd., acquired the property during April, 1974 and completed geological mapping, re-location of old surveyed claim post and sampling of showings and trenches. Detailed geological mapping and drilling of three holes was carried out on the Jenny Long, No Surrender and King William Claims while limited geochemical work and geological mapping were carried out on the Azela Claim.

7-00 GEOLOGY

7-10 Regional Geology

A map of the regional geology (Map 886A Nicola Map Sheet) was prepared and published by Geological Survey of Canada at a scale of 1" = 4 miles. According to this, the claim area is underlain by Nicola Group volcanics and sediments of Upper Jurassic Age. Predominant rock type within this group in the general area is greenstone. Map 886A classifies the Nicola Group as follows: greenstone, andesite, basalt, agglomerate, breccia, tuff, minor argillite, limestone and conglomerate.

7-20 Local Geology

Detailed geological mapping at a scale of 1" = 100' showed the area to be underlain by greenstones belonging to the Nicola Group of Upper Triassic Age.

Quartz veins, shear zones and alteration zones containing various sulfide minerals in varying amounts have been mapped and drilled and sampled. The main problems encountered in mapping were the poor and limited rock exposures and sloughed trenches.

7-30 Discussion of Each Claim

7-31 South Section

Jenny Long

The Jenny Long system of veins has been developed by an inclined shaft, trenches and one small bulldozed area. The inclined shaft with three different working levels at 65, 100 and 125 feet is now filled with water as are two of the three ventilation shafts. The four trenches average ten feet in width and vary in length from 40 to 400 feet. There are a few small cuts as well.

The main vein exposure is in the vicinity of the shaft; the vein strikes N 10 W, 60° E. The three trenches in the vicinity of the vein lie in a N 10 W direction and appear to follow the vein system; showings of altered greenstone and quartz vein material were found in two of these. The vein consists of quartz with varying amounts of galena, sphalerite, pyrite and chalcopyrite. It pinches and swells and is generally less than one foot wide.

The drill hole was located about 250 feet northeast of the shaft roughly 30 feet higher in elevation. It was drilled at 63° to 65° SW angle to a depth of 273 feet

in an attempt to cut the three veins which had been worked on while the mine was in operation.

Only two veins were intersected by the drill hole, one from 203 to 205 feet and one from 230 to 235 feet.

At both, shear zones were encountered both above and below the vein in question. The assay results of these two veins were

	<u>Au (oz/T)</u>	<u>Ag (oz/T)</u>
203 - 205	<.003	.04
230 - 235	.022	1.03

The shear zone from 240 to 245 assay results were .030 oz/ton for gold and 2.43 oz/ton for silver. Although plans were originally to drill to 350 feet at this site, the shear zone from 235 to 250 feet of shattered greenstone and the zone from 250 to 273 feet of red brown clayey friable material required new drilling equipment. Two drill bits were ruined getting to a depth of 273. This was due to the vary hard greenstone encountered at 273' and the angular quartz fragments encountered in the red shear zone.

Northern Section

7-32 No Surrender and King William

These two claims lie adjacent to one another and are both part of the same vein system. The vein on the western half of the mapped area was traced 900 feet through veined exposures in the major trench on the property. At 6S + 2W the vein disappears. It branches into two

parts, one branch exposed in a series of dozed areas and the other exposed in two narrow blasted strips each of which is four feet wide on the cliff face. The other major veining lies predominantly in the eastern half of the mapped area. It can be traced through a series of stripped, dozed and shaft areas approximately 1200 feet and probably extend 200 feet beyond that. These two major veins change in width (They pinch and swell), quality (amounts and types of sulfides) and orientation (variation in strike and dip) throughout the property.

No Surrender

The No Surrender Claim has been developed by a vertical shaft (now caved in), two major trenches and three smaller trenches and a few bulldozer cuts. This is the location of the second drill hole. The second drill hole was drilled at a 45° angle SW to a depth of 351 feet. Only one quartz vein was cut by the drill hole, this was at 124 to 126 feet. The assay results were poor for this: .003 oz/ton for gold and <.01 oz/ton for silver. The highest assay results were for a two-foot section (146-148 feet) of red colored rock with no visible sulfides. Results were .016 oz/ton for gold, and .76 oz/ton for silver.

Assay results of the four chip samples taken from the vein exposures along the longest trench were as follows:

	<u>Gold oz/ton</u>	<u>Silver oz/ton</u>
Sample 1	.102	5.78
Sample 2	.086	5.58
Sample 3	.003	0.10
Sample 4	.003	0.06

King William

The King William Claim has been developed by a vertical shaft, a pit, one major trench about 750 feet long and a small vein area which was blasted. This is the location of the third drill hole which was drilled at a S.W. 55° angle to a depth of 161 feet. Three veins were intersected by the core and the same pattern was common to each, i.e., greenstone with occasional quartz stringers gradually increasing in number of quartz stringers to a quartz vein, a decreasing number of stringers away from the vein. The assay results of the veins were as follows:

	<u>Gold</u>	<u>Silver</u>
99' to 99½'	.005	.01
122' to 123½'	.04	.005
140' to 142'	.024	.54
142' to 145'	.048	1.63
145' to 151'	.014	.35

8-00 GEOCHEMISTRY

8-10 General

The Azela Claim is a narrow (600' - 700') valley bounded by two ridges. Thick drift covers part of the area as evidenced by the growth of poplar trees. The only exposures of greenstone were found on the eastern boundary. Two buildings and the ruins of two other buildings are located on the property. An inclined shaft now water filled is in the centre of the claim. The area of the

dump is small but high amounts of sulfides are found here. The only vein exposure is found in the altered greenstone near the surface of the inclined shaft. There are two roads branching off from the Peter Hope Lake Road which provide access to the claim.

8-20 Geochemical Survey

A geochemical soil survey was conducted within the boundaries of the Azela Claim on August 1, 1975. The base line for sampling was made parallel to and close to the vein (i.e., the base line runs NE-SW) the origin of the line being at the shaft (housing the only exposure of the vein on the property). Stations were to form a 100' grid within the claim's boundaries.

8-30 Field Procedure

Samples were taken at each of the 37 stations established. These samples were taken at a depth of about 6" (below the vegetation and humus layer of the soil) and were placed in small plastic bags.

8-40 Analysis

All soil samples were sent to the Chemex Laboratories Ltd., 212 Brookshank Avenue, North Vancouver, B.C., where they were misplaced enroute. As a result no results have been received at the date of this report.

Respectfully submitted,

Vancouver, B.C.

August 18, 1975

Frederica Shnay
Frederica Shnay, Geologist

- 13 -

Endorsed by:



R.H.D. Philp, P. Eng.

CERTIFICATE

I, Ronald H.D. Philp of Suva, Fiji, do hereby certify that:

1. I am a registered Professional Engineer for the Province of British Columbia.
2. I am a graduate of the University of British Columbia (B.A.Sc. 1961).
3. I have practised my profession since 1961.
4. I personally supervised the work carried out by F. Shnay, a qualified geologist, and visited the property during the course of the recent program.



R.H.D. Philp, P. Eng.

Vancouver, B.C.
August 18, 1975

DOMINION OF CANADA:
PROVINCE OF BRITISH COLUMBIA.

In the Matter of the diamond drilling and geological surveys on the Jenny Long and Stump Lake Groups, Nicola Mining Division, B.C.

To Wit:

I, Valerie McKee
of 107 - 325 Howe Street, Vancouver.

in the Province of British Columbia, do solemnly declare that the following personnel were employed and costs incurred in conduction the work.

Personnel.

Frederica Shnay - geologist - field - drill layout, logging and splitting core.		
7 days @ \$ 100.00 a day	=	\$ 700.00
- Field gridding, geology		
10.8 days @ \$ 100.00 a day	=	1080.00
- Office-report, maps		
10 days @ \$ 100.00 a day	=	1000.00
R. Philp - geologist - field - 2 days @ \$ 150.00 a day	=	300.00
K. Michel - field assistant - 2 days @ \$ 20.00 a day	=	40.00
L. Rodriques - field assistant - 7 days @ \$ 25.00 a day	=	175.00
		<u>3,295.00</u>

Disbursements.

Prints	13.73
Freight	26.70
Assays	266.40
Meals & Accomodations	405.73
Supplies	31.65
Telephone	4.06
Transportation	39.80
Car Rental	50.00
Gas	41.60
Miscell.	16.31
	<u>895.98</u>
Plus 15% service charge	<u>134.39</u>

1,030.37
12,523.64 Total \$ 16,849.01

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *29*
day of *August, 1975*, A.D.

Valene McKee

A. Geovette
A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.

Sub - mining Recorder

INVOICE

SHEPHERD ENTERPRISES LTD.

804 - 470 Granville Street, Vancouver, B.C. V6C 1V5
 Box 21 - 24, Station A, Kamloops, B.C. V2B 7K6

Juniper Mines Ltd.,
 325 Howe Street,
 VANCOUVER, B. C.

Invoice No. 0052

Date July 31, 1975

Period July 1975

Property

FOOTAGE:

Hole No.	From	To	Footage	Price/Ft	Total
1	0	273	273	12.00	3,276.00
2	0	351	351	12.00	4,212.00
					7,488.00

SERIALS:

2	BQWL Bits drilling through fault #7680 and 7079 @ \$255.00 ea	510.00
1	BW Casing Shoe	135.50
3	2' BW Casing @ \$15.25 ea	45.75
		691.25

RENTALS:

Hole #1:	Tractor	60.00
	Lowbed 6 hrs @ \$22.50/hr	135.00
Hole #2:	Tractor	221.00
	Lowbed 6 hrs @ \$22.50/hr	135.00
		551.00

MOVING FROM HOLE #1 TO HOLE #2:

24 hours @ \$13.00 per hr	312.00	312.00
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Plus 15%

1,554.25
 233.14

1,787.39

PER:

E. Tessmer
 E. Tessmer, Gen. Mgr.

TOTAL BILLING:

\$9,275.39

Engineering Approval

Date

INVOICE

SHEPHERD ENTERPRISES LTD.

804 - 470 Granville Street, Vancouver, B.C. V6C 1V5
 Box 21 - 24, Station A, Kamloops, B.C. V2B 7K6

Juniper Mines Ltd.,

225 Howe Street,

VANCOUVER, B. C.

Invoice No. **0054**

Date August 11, 1975

Period August 1975

Property _____

FOOTAGE:

Hole #	From	To	Footage	Price/Ft	Total
75-3	0	160	160	\$12.00	<u>\$1,920.00</u>
					<u>\$1,920.00</u>

WORKING ON HOLE 75-3:

20 man hours @ \$13.00 per hr	260.00
6 cat hours @ \$29.00 per hr	174.00
4 lowbed hours @ \$22.50 per hr	90.00

DEMOR:

16 man hours @ \$13.00 per hr	208.00
4 cat hours @ \$29.00 per hr	116.00
6 lowbed hours @ \$22.50 per hr	135.00

CASING LEFT IN HOLE 75-1:

3 - 2' BW Casing @ \$13.50 ea	40.50
1 - BW Casing Shoe @ \$131.50 ea	<u>131.50</u>

1,155.00
 Plus 15% 173.25

\$1,328.25

TOTAL BILLING:

\$3,248.25

PER: E. Tessmer Gen. Mgr.

Engineering Approval _____

Date _____