5565₁

921/8W

GEOLOGICAL REPORT ON THE STUMP LAKE PROPERTY 4 NICOLA MINING DISTRICT, B.C.

for

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

MINES III.

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

 Γ

: William Takeshita

Submitted by: Frederica Shnay, Geologist

Endorsed by: R. Philp, P. Eng.

Work Conducted by: Agilis Engineering Ltd.

Department of

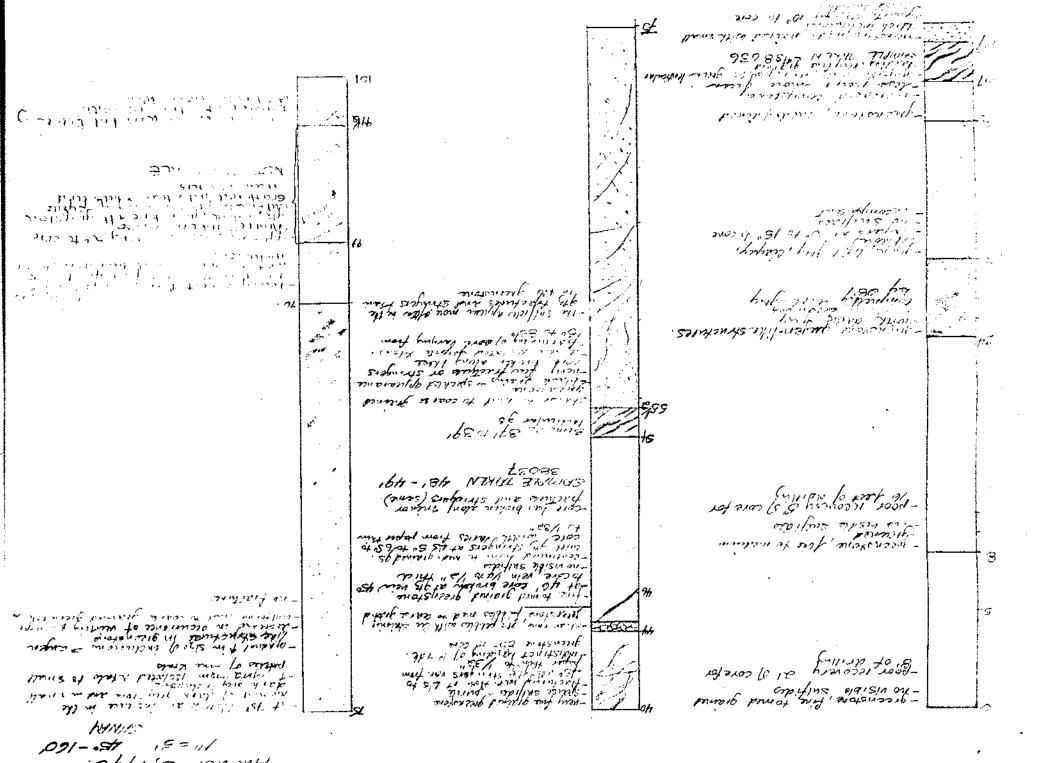
Mines and Patroleum Resources

ASSESSMENT REPORT

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



091-41 (8=11) 'S461'8 LONONU WU171M DNIS

				<u> </u>
101	-no stringers for 21 -med to course orained grandone -core obredies outling at fractions -core obredies outling at fractions -core obredies outling at fractions -collinated tractions	140-140-	24(5)20 52:410 52:410 60	-Incres so in grants extra sers -Buny grants of practures isotory -Buny grants of practures is personal. SALY LC TAKEN 1401-1421 38051 SMALL TAKEN 1421-1421 38051 SMALL TAKEN 1431-1421 38052 SMALL TAKEN 1481-181 38053 SMALL TAKEN 1481-181 38053 - quarter on as a color of the property of the pro
120	- increased number of the inders 180 - 100 180 - 100 180 - 100 180 - 100 -	160-		decrease in Humber of Annagers.

. E	AR NORTH AST (LEVATION AZIMUTH DIP	Agilis	Exp	lorati	on Si	ervices	Ltd	•	COM	NO MO MENCED_ PLETED OSE OF HO	l'ingust	ULIA Lugust	n) #3 [97	1995—
Į	EVEL	DIAN	OND	DRILL R	ECORD		,,							10/5
	DESCRIPTION -	i ay		ORE SA		SAMPLE	A., O7	ASS/]!	H & AS		COMMENTS
л <u>то</u>			1 KOM	'0	*********	NO.	1,10 02	7.9 0-					\ 	
8	-grenature - fine to med gree - core secrety . 2' of core for	renew drilling												
		o o many												
24	- greenstone file to med a	(the second						-						
7		me 16()												
	- prof seconcry (5' of cose of		l											
28	-no scible sufficies -greenstone becomingager like	dayle are			•									
- 120	enclineous entire rock be													
	desk grey by 28 feet	ee may	"			,								
35	- reento elight- grey friable	la menta			<u>-</u> .									
	Lind ~ shear gone (?)	J. J. J.												
	layering at 10°=15° to co	ze .										<u> </u>		
	- no wisible sullides													
39	-ascension and grained in	oceasing												
7	empeterdy -							. !				<u> </u>		
39	- as un stone Districted were	lastic	37	39		38036	0.003	0.15	Cu			<u> </u>		
	Joseph Manding-were Size a	sained				<u> </u>						<u> </u>		
40 0	- is grandone and arrived								i ,			<u> </u>		
	winible sufficient			<u> </u>				· · · · · · · · · · · · · · · · · · ·				<u> </u>		
	gry and ount secretary. - gry some Worth very fire g - green some, and grained - windle sufficient amall bland inclusions						<u> </u>					 		
1	Lacorto stricter 10° to	cose.	<u></u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·	-	 				 		
44	Viver fine drained greens	me.					<u> </u>	·				ļ		
	-in de priste (indusidue	of Krals)							<u> </u>			 		
	- fracturing survine from	450 Ko 900				· · · · · · · · · · · · · · · · · · ·					_	-		·
	10 - and unlisted with	then					1							

-	COLLAR NORTH EAST ELEVATION AZIMUTH DIP LEVEL DESCRIPTION		Agilis	-	lorati DRILL R			Ltd	•	COW	ECT NO MENCED PLETED _ OSE OF H		w. 6 a. 8 a	lliam	2015
					ORE SAI		<u> </u>		ASS/	AYS		WID	TH & A	SAY	COMMENTS
FROM	TO	DESCRIPTION	,	FROM			SAMPLE	Au OZ				!1	U WxAg		
		quarty stringers (marthi	10/324)				1101								
		-indistinct banding of	ei strand	- "											
		der greenstone 85% to	erse.			·							<u> </u>		
44-	446	shedr some-ourst -ce	· · ·										<u> </u>		
		Pu stainere assense	ne selfles							· .				<u> </u>	
	•	medium to course sy												ļ	
1460	54	- fix to medium grained	presentore	!			.								
		To 46' break at a warts	wein 450 %									^_	<u> </u>		
		ose and 14" to 12"	hick			<u>.</u>							 		
	<u>:</u> .	-no wisible sulfides	names =6.							 					
		continued fire to medium	ii			<u>-</u>									
		greenstone with glaste	stringen											<u> </u>	
		at ander varying from	50 40650		 	<u> </u>		ļ		<u></u>				-	
		40 abre in winths as	eriging							 			_		
	<u>-</u>	from pages the to 132	n/ U							<u> </u>			 	_	
		- rece willow orundon	. 1						<u> </u>	ļ					
		and collar							<u> </u>				_		
		- sullidio not visible								<u> </u>			<u> </u>		
	·	-use has broken along in	unor factures	<u>,</u>					\	<u> </u>			- 	<u> </u>	
		and suite ofsingers) I sam	e) /	48	49		38037	.003	0.01						
		- consisting stringers fraction	of pottern to						<u></u>						
			~ <u> </u>	ļ			`				<u> </u>	#	 		
54	251/2	-54 -551/2 seme as sam	ole 37'-39'							 _		<u> </u>		-	
55%	75	-54 -5512 seme as Samp -change to medium to road -black grains	re pricined is					<u> </u>		<u> </u>		#	-	 	
		black orains	0	ļ]	<u> </u>				 	 	
		Lucia lour Abantetsen)-t	Stringers		<u> </u>	<u> </u>								<u> </u>	

• .	. P. E. A	COLLAR NORTH EAST ELEVATION AZIMUTH DIP LEVEL DESCRIPTION				on Servic	es Ltd	 - ;	HOLE N COMME COMPLI	TO NCED ETED E OF HO	Kang 8 G LE	<u></u>	selece 3 af	
				C	ORE SAN	\PLES		ASSA	YS		WIDT	H & AS	SÁY	COMMENTS
FROM	то	DESCRIPTION	:	FROM		VIDTH SAMP	E Au OZ				<u> </u>	WxAg		
		- we proben along these	2											
		- few isolated suffice - fracturing of core wary	n (puite)											<u> </u>
<u> </u>		- Gracturing of core wary	use from 50 to								<u> </u>	<u> </u>		<u> </u>
	ļ	850	0 /								- 			
	<u> </u>	the sufferen youar or	we often								-			· · · · · · · · · · · · · · · · · · ·
	ļ									_	<u> </u>			<u></u>
	ļ	the sta fraction	one.											<u> </u>
	<u> </u>	greenstone des a spech	Led appearance	2							<u> </u>			
		with grays black									<u> </u>			
	<u> </u>	Agry unglim:			 							<u> </u>		<u> </u>
<i>7</i> 5	96	- at 75 10 there in an	increase in								_{	<u> </u>		
	<u> </u>	The ancunt of dark gs	ey store								-	-		<u> </u>
		The ancunt of dark gr	sions									 -		
		increased and of office	from isolated		-						_			
		Xfuls to small areas of	Line Xtals	<u> </u>	-						-	ļ		
	ļ	- qualual increase in	size of like		-					}	#			<u> </u>
	<u></u>	inclusional so				···				- 				<u> </u>
	ļ	- absence of weining	5 hingers		}							-	<u> </u>	
_ 	ļ	- uniform med to cons	se givered		-									
		gseknskone									-	 -		<u></u>
96	 	- 12 96' secretarial see	y thin gillety		 					_	_	}		
		Menicen			 						 -			
		- 1 string a feet increas	en freguence		<u> </u>					 		-		<u> </u>
		To area 50 in 1	foot at		 							ļ		
	ļ	99' TY 40° 40 core		 	 					<u> </u>				
	<u> </u>	- medium to fine gra	ened preenson		<u> </u>						_	 		

•	E/ EI A	AR ORTH AST EVATION ZIMUTH IP EVEL	Agilis DIAN		lorati DRILL R			Ltd	•	CON HOL	JECT E NO MENCE APLETED OSE OF	D		1 1		M 5
	-			C	ORE SAI	MPLES		Ī	ASS	AYS			WIDT	1 & AS	SAY	COMMENTS
FROM	ТО	DESCRIPTION		FROM	то	WIDTH	SAMPLE	Au OZ	Ag CZ				WxAu	WxAg		
99	996.	- quarte vein lo" long	at 550 forme	99	99/2		38038	.005	.01							
		- quarto vein lo" long tota, culcilo grenstone	light juny												_	<u> </u>
		-sulfides predominantle	, sinte											_		
	ļ	Scallered individual	Helor mall													
	-	Chaters						[! 						<u> </u>	<u> </u>
996"	101	some as before win			· · · · ·			ļ <u>.</u>								
	100	Lecuaring from			· · · · -											
161	Ida.	no stryes for fe		<u>-</u>									-·		 -	
	 	- Stringer at 105 at		, <u></u>		<u> </u>					 		-			
		- core breaks easily at fraction														
		-sulides scarce but more com	monon													
		Peretues y Stringers							· 		<u> </u>		^			<u>.</u>
		- med to cause grained gre	enstone.													
		- Tringen encionsing in fl	reguency -								 					
	<u> </u>	120' to 122'		· · · · · ·												<u> </u>
		were concessioned prin	to Stalson								 					
<u> </u>	123/2	account.		/ଥର .	1234	2	38039	0.4	.005						<u> </u>	
(38%		Courts win		<u> </u>	7	·——	2007	, 17 -7 .							ļ 	
<u> </u>	155./-	Thunday outlester in 20			<u> </u>		`									
		These are sencenteated	Pix Emall													
		i	I1											-		
		- pysite - r suffixes of Ph	FATAGE.								<u> </u>					
	ł										<u> </u>					

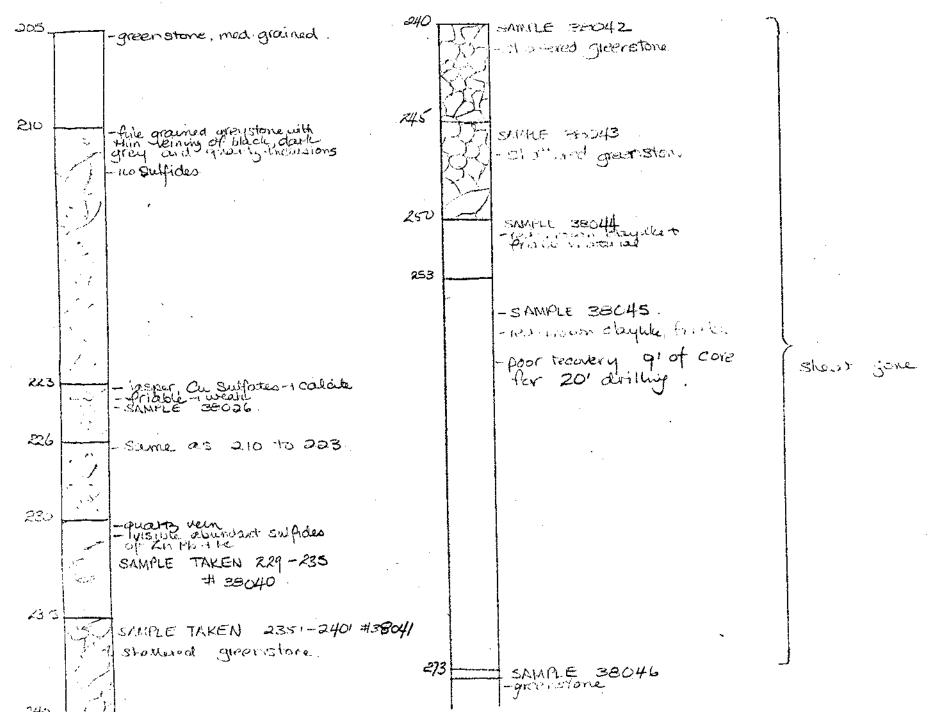
The state of the s

· *PROJECT:

Agilis Exploration Services Ltd. DIAMOND DRILL RECORD

HOLE NO:

		DECCOUNTION!	CORE SAMP					ASSA				WIDTI	AS AS	SAY	COMMENTS
FROM	ТО	DESCRIPTION	FROM	TO	WIDTH	SAMPLE	Au OZ	Ag OZ				WxAu	WxAg		
124	1248	very unusual fractive pattern				1101									
104/12	136	- greenstore - med to course grained									,,	<u> </u>	ļ		
		Cocasional pipito Itals.										<u></u>			
		- occasional stringers of 9 tz + pasperal					<u> </u>				ļ 	<u></u>			
		L'S waying from 250 to 700 to Wo					<u> </u>								
136	188	incues en quart sturen	<u> </u>				<u> </u>					ļ	<u> </u>		
138	140	-3 ~ 6" long granture zones						<u> </u>	· · · · · · · · · · · · · · · · · · ·	ļ		<u> </u>			
		with memerous quarty stringers					<u> </u>								
140	142	- quasty vein (140-140/2)		142		38 <i>0</i> 5/				Ph	<u> Z.</u>	ļ			
142	145	an actions - applieto + bandlalolo allales	142	145	-	38052					-		-		
145	1570		145	157 0	<u> </u>	35053	-014	0.35			-				
<u> 151 - </u>	160	fine grained greenstone lecrease in number of stringers with distance from wen no wiselife sufficien								 		<u> </u>	<u> </u>		
		lecrease in number of tungers.								<u></u>					
	 	with distance from ween -		:		<u> </u>						<u> </u>			<u> </u>
		no waitele sulfation.			<u> </u>) · i	
					· <u> </u>		<u> </u>	-							
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	l		1 !	-	·	'		1		}		Į.	1		i .



Payout 2. 1975 Shnay Spine in word 1" = 5' Trong Charles Let Selection 1998 -greenstone augen structure willing dark grey brone of down a texture - pyrite present COLUMN TO A 66 -small dark great inclusions Strings of celed of yours 137 -> speckted expressione. - poor recovery (2' recovered -uniform to 105' 139 de la stone de diego mais de la surficie zone fundered (Stear zone) small piecesof greenstone 105 嵩 حاطا Confidence of the State of the Confidence of the 11 - greenstone, med grained varying in color from dark green with ar amounts of pyrite prim i dark grey precent med glidning -banding indistinct at 600 -more mention (sulfides) arese -increased white of sulfides in greenstone in most abundanting quarts stringers -SAMPLE TAKEN 1171-120' 38022 120 augen steucomeridark grey inclusions -occasional very thin (1/30")
awarts stringers a scarce
limited to pyrice 122/ Could to Cove Stringers var 600 120/2000 to Cove Clear calcie (19 X466) -extensive stringralization of sufficient second - shortered green of the - sufficient and almost and in grants, structures but in fact are feel of the section of the 55% Baccoffiable rock (Shear 30ne?) - fine his midulin arquired greenstour - share no rescription had by sufficient the Karthan would my -verythin atz. stringers 6.4 Egranto vein proce 11 1. 18 TAKE 1. 30025

Jenny Long Did Hole

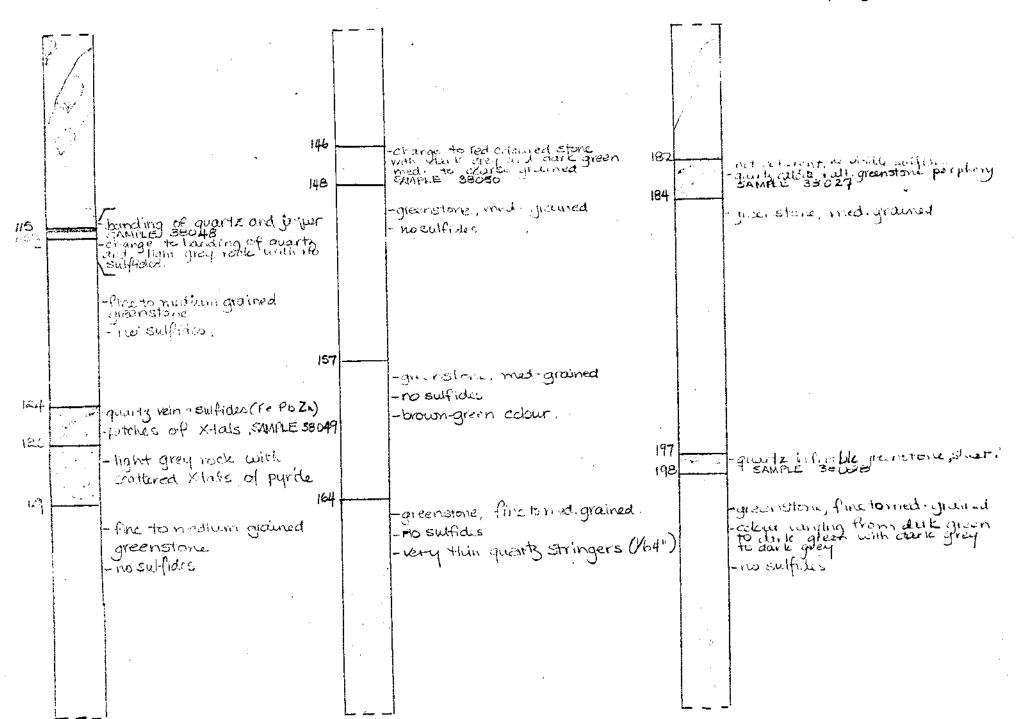
•	AZIMUTH			·			ervices	Ltd	•	COW	MENC			\mathcal{O}	28		
	LE	VEL	DIAN	MOND I	DRILL I	RECORD		,		. ====						/ 6/ a	
		DESCRIPTION		 	ORE SA		·		ASS		,	···········	<u> </u>	1 & AS	SAY	COMMENTS	<u> </u>
FROM	TO	DESCRIPTION .		FROM	TO	WIDTH	SAMPLE	Au OZ	Ag OZ	<u> </u>	 	ļ	WxAu	WxAg	<u> </u>	 	
<u></u>	11	poor recovery (2' recovered of 1)	<u>//)</u>			<u> </u>	<u> </u>				ļ	<u> </u>					
		greenston of properties with do	erh.	<u> </u>			<u> </u>		<u> </u>		ļ						
		grey of the same textine		!		<u> </u>		<u> </u>			<u> </u>						
		- syrite present															
11	20	- weenstone, med grained		<u> </u>		<u> </u>	<u> </u>	 			 					·	
		warying from dark green with	tt_			<u> </u>	<u> </u>		<u> </u>		<u> </u>						
		war anto of dask grey				<u> </u>		<u> </u>			<u> </u>						
		- sullioles present banking inde	esterco.			<u> </u>	<u></u>	<u> </u>			<u> </u>	ļ					
		- sufficien present, banking inde		<u> </u>	 	ļ		<u> </u>			<u> </u>		 				
20 -		organional way thin (1/32")		<u> </u>		<u> </u>	ļ	<u> </u>			ļ	ļ	<u> </u>				
8.5.5		atia stringers				<u> </u>	ļ	<u></u>	ļ		<u> </u>	ļ	<u></u>				
. ***		sulfides quattered scarce		<u> </u>			<u> </u>	 	<u> </u>		<u> </u>	<u> </u>					
• . • .		ala Memited to be sulfide	2					 _			<u> </u>						
536"	551			336"			38021	K.003	-03	<u> </u>	<i>#</i>	₹	<u></u>				
		sulfides	<i></i>								<u> </u>	<u> </u>					 -
.55	55%					<u> </u>	<u></u>		ļ		<u> </u>		<u></u>				
55%"	1050	fine to medium grained green	stone					<u> </u>	<u> </u>				 	<u></u>			
<u></u>		very scarce - occasional sulfil	les			1	<u> </u>						<u> </u>				
	1	minoeropie (tals)							<u> </u>			<u> </u>					
	1	well This quarte Thinger						<u> </u>									
	1	mall dack green inchasions								<u> </u>	<u> </u>		<u> </u>	<u> </u>			
		giving a speaked appearan	PP								<u> </u>	<u> </u>	∦ _	<u> </u>		<u></u>	
205	115	shortered steenstone small										<u> </u>	!				
		shorteredt oftenstone small	· · · · · · · · · · · · · · · · · · ·									<u> </u>					
•	127	mineralization on core surface															
	17.77	THINK AND WE WILL BUGARE				$\overline{}$	1										

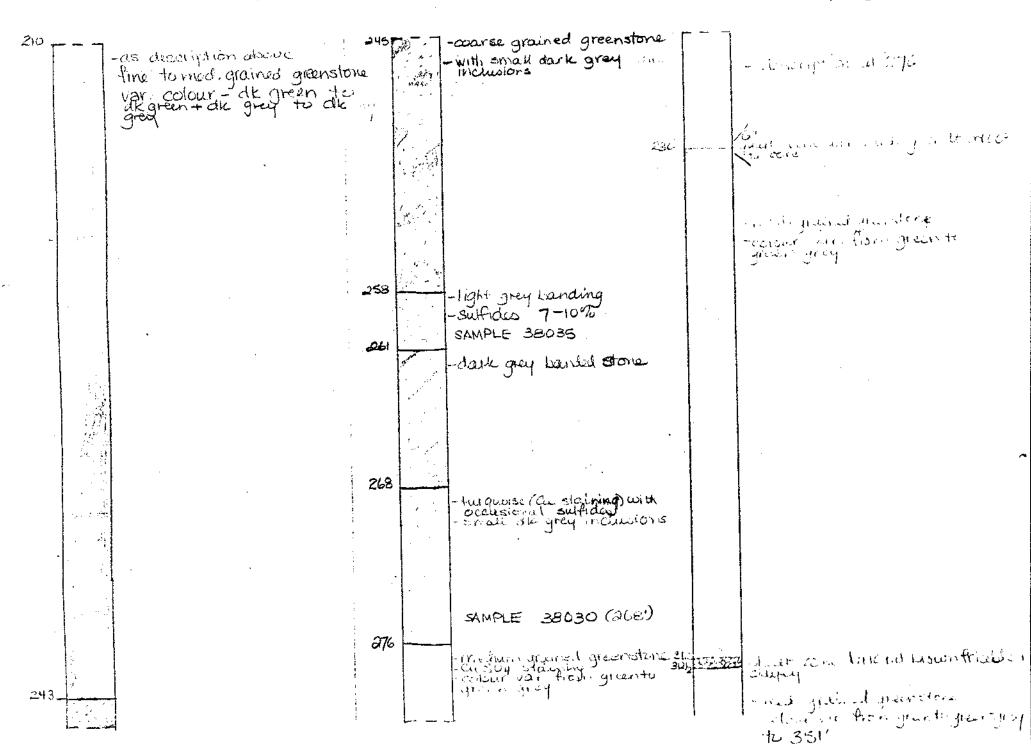
. , ,	EA EL AZ Di	ORTH Agi EVATION			lorati		ervices	Ltd		COM	NO.	<i>D</i>	0	Y 1 3 3 1 Jul	y 20	293
				C	ORE SA	MPLES			ASS/	YŞ	•,		WIDT	H & AS	SAY	COMMENTS
FROM	10	DESCRIPTION	F	ROM		WIDTH	SAMPLE						WxAu	WxAg		
115	137	allastone		117	120		38022	4.003	4.01	Cu	Ph	72				
con	7	- cultides most abundant in augus	2/3									<u></u>	<u> </u>			
		stringers but in par die	0						<u> </u>							
		representates throughout This										<u> </u>				
		section of core.					·				!		1			_
	122	6" ween of calcite landy la Calita		<i>#</i>	125/		38023	∠.∞3	<.01				<u> </u>			
	, , , , , ,	L'halo in core														
187	1.39			37	139		38024	4.003	<.01	· -		ب.				
		such des meners														
130	1/2/2	-assensione medium gracued									'			<u> </u>		
7 - 12/	7667-	ocrasional - gtg stungen +			,						·					
		accasimal sullides														
166	168	some of shattened greenstone														
× 6383	10.0-	peplito Piahest														
158	180-	- greenstone , med grained														
7	182	Ishardered greensone.					-									
180		- greenstone faving speckled														
10 0	00	ama a see du de de men		-												
·		appearance due to the grey												}		
0.0	20.5	mare incussors.			,						· · · · · · · · · · · · · · · · · · ·					
<u> </u>	36.752	Omen and penit X sale														
		July mall pepite & tale - sufficies present in Cu sulfide (sulfate?) X talo II shape	61				ļ						 -			
		(collete?) VIala FTI chan		203	205		38025	<.003	.04							
		my les														
		mall amounts.					<u> </u>									
	 						1	<u> </u>				}				

	EA EL Az	ORTH Agili: EVATION ZIMUTH	s Exp	•		rvices	Ltd	•	COM COM	ECT_ NO. MENC PLETED OSE O	ED		1 (ou) 1 23 Jul	1 1 28	3 of 3
			С	ORE SA	MPLES			ASS	AYS			WIDT	H & AS	SAY	COMMENTS
ROM	ТО	DESCRIPTION	FROM	TO	WIDTH	SAMPLE	Aυ OZ	Ag OZ				WxAu	WxAg		
205	210	greenstone medium grained								<u> </u>	<u> </u>				
		line maines anystone with this								<u> </u>	<u> </u>				
	!	reiling of black, all greys									<u> </u>				
		att inclusions						·						<u> </u>	
	6	-no visible sulfides.								<u> </u>			ļ		
223	226	ted ion and coloured rock						 					<u> </u>		
		weak hiable small vains calcute										↓	<u> </u>	<u> </u>	
		1 comer gulfates	223	226		38026	2.003		an	<u> </u>	<u> </u>		ļ		
226	230	fine grained greysone with thin													
		veining of black, all greege of inclusion			·							<u> </u>			
29	235	quarte rein										<u> </u>	<u> </u>		
		wisible plentiful sulfides of	229	235		38040	1022	7.03	Cu	Ph	Zn				
		In Phy Ke									<u> </u>				
35	250		235	240		38041	233	.58	Len	26	Z_{n}	<u> </u>	<u> </u>		
<u> </u>	-	poor decovery of over	240	245		38042	2006	1380	Can	R	Zn	<u> </u>	<u> </u>		
		broke 2 deile drips	<u> </u>	2570		38043					2~	<u> </u>	<u> </u>		
) 5 0-	273	sed-brown clay like	250	253		38044	K.003	.01	Cu	Ph	2	<u> </u>			
	37.3	moterial Sicable cumbbs										<u> </u>			
		moterial friable, aumbly poor secovery from 33' of depths orly 9' lose selvered end of core, quentone	253	273		38045	∠. 0 03	4.01	Car	Ph	22		<u> </u>		***
		and 9' anse seconsenses.											<u> </u>		
273		en of non allendone	273			38046	.003	.12	Ca	Ph	Zn.		<u> </u>		
~/										<u> </u>			<u> </u>		
									<u> </u>		<u> </u>	<u> </u>	ļ		
									<u> </u> _			<u> </u>	<u> </u>		
													<u> </u>		
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1-med grained -five grained greenstone
-first 18 feet broken
-recovery of 5 of care for
-first 18 feet
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157	164	giernstone, med grained, no													
164	182	- mourist - green colous.													
		- no wisible sulfides - new thin -9 th stringer (1/64")													
182	184	- not very rokered	182	184		38027	4003	.01	lu						
-=		- questo, calcite taltared gransfore												-	
<u> </u>	197	- guerstone, med grained -	新						4						
197	198	quartz in friable eumbly greendon	197	198		38028	4,003	.01	Cle	B	Zn	 	<u> </u>		
108	243	- gerenstone, -fine to med graine	<u> </u>	ļ ·						 	 	 -			
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<u> 258.</u>	261	- high guy banded - Sulfides 7-10°6	258			3 <i>8035</i>				<u> </u>	<u> </u>	 	<u> </u> -		
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268	276	Continued														_
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276	35	banding with in at 60° to core							· .			<u> </u>				_
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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.
- 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, 550 to 750 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:

Lot #	# of Acres	Record #
5893.	20.66	59396
5129	46.18	59429
5124	34.44	59428
5123	40.80	59427
5122	51.65	59426
5115	23.84	59425
5114	21.11	59424
5111	41.57	59423
5105	47.81	59422
5098	32.17	59421
5097	51.31	59420
5086	51.10	59419
5085	42.09	59418
5084	51.65	59417
5083	51.65	59416
5080	27.51)	
5081	10.66)	59425
	5893 5129 5124 5123 5122 5115 5114 5111 5105 5098 5097 5086 5085 5084 5083 5080	5891 20.66 5129 46.18 5124 34.44 5123 40.80 5122 51.65 5115 23.84 5114 21.11 5111 41.57 5105 47.81 5098 32.17 5097 51.31 5086 51.10 5085 42.09 5084 51.65 5080 27.51)

Raven No. 2	5079	51.69	
Jessie B	5078	51.65	59414
Marion C. Fr.	5077	39.29	59413
Georgina M. Fr.	5076	9.64	59412
Ester M. Fr.	5075		59411
C. Fr.	5059	44.50	59410
Day Star	4111	16.18	59409
Entente Cordial	4110	51.64	59408
New Emblem		51.65	59407
Planet Ext.	4109	51.65	59406
New Star #2 Fr.	4108	50.73	59405
Silver King Ext.	4106	26.95	59403
Silver Star	4107	51.64	59404
Silver King #2	4104	44.91	59402
Planet #1		51.28	59401
Big Sandy	4102	51.65	59400
-	637	20.66	59399
no surrender	591	19.50)	
King William	592	20.50)	59398
Belle Scott	590	20.40	59397
genny rong	718	20.66	22371
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	
	,	21+72	

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

	$\underline{\text{Au }}(\underline{\text{oz}}/\underline{\text{T}})$	Ag (oz/T)
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:

	Gold oz/ton	Silver oz/ton
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. 550 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:

	Gold	Silver
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 Clain 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 Geologist

G LTD.
BEOLOGISTS
VER. B.C. V6C 177

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).
- 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.

To Wit:

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

Ŧ. Valerie McKee

107 - 325 Howe Street, Vancouver. of

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 3,295.00

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
	895.98
Plus 15% service charge	134.39

1,030.37

Contract Drilling

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 Vancour , in the Province of British Columbia, this

Valene McKee

A (fidavits for British Columbia a

Sub - mining Recorder

SHEPHERD ENTERPRISES LTD.

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

Engineering Approval

Juniper Mines Lid.,	Invoice No. 0052
325 Howe Street,	Date 3:1y 31, 1975
VARICOUVER, B. C.	and the second of the second o
Period July 1975 Property	
FOOTAGE: Hole No. From To Footage Price/Ft Total	
1 0 273 273 12.00 3,276.0 2 0 351 351 12.00 4,212.0	
ERIALS:	
2 EQML Bits drilling through fault #7680 and 7079 @ \$255.00 ea 510.0	
1 BW Casing Shoe	
RENTALS:	
Hole #1: Tractor 60.1 Lowbed 6 hrs @ \$22.50/hr 135.	00
Hole #2: Tractor 221. Lowbed 6 hrs @ \$22.50/hr 135.	
MOVING FROM HOLE #1 TO HOLE #2: 24 hours @ \$13.00 per hr 312.	00 312.00
Plus 15%	1,554.25 233.14 1,787.39
PER: Milder TOT E. Tessmer, Gen. Mgr.	AL BILLING: \$9,275.39
C E. Tessmer, Gelf. Mgr.	

SHEPHERD ENTERPRISES LTD.

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

Engineering Approval.

•					
Juniper 1	ines Ltd.,			Invoice No. 0	054
225 Howe	Sireet,			Date Augus	¥
VANCOUVER	. R. C.			Date	<u> </u>
Period Augus	t 1975				
Property					
TAGE:					
Hola # From	To Footage	Price/Ft	<u>Total</u>		
75-3 0	160 160	\$12.00	\$1,920.00		\$1,920.00
ING ON HOLE 75-3:				•	
20 man hours 0 6 cat hours 0 \$ - 4 lowbed hours	\$13.00 par hr 29.00 per hr 0 \$22.50 per hr		260.00 174.00 90.00		
08: 16 man hours 0 4 cat hours 0 \$ 6 lowbed hours	\$13.00 per hr 29.00 per hr @ \$22.50 per hr		208:00 116.00 135.00		
ING LEFT IN HOLE 7	<u>5-1</u> :				E-market (
3 - 2' BW Casi 1 - BW Casing	ng @ \$13.50 ea Shoe @ \$131.50 ea	3	40.50 131.50		
1. Sept. 1.	Plus 155	%	1,155.00 173.25		\$1,328.25
,			<u> </u>	OTAL BILLING:	\$3,248.25
: Mealf			was a way		
E. Tessmer/Gen.	Mgr.				