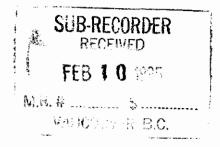
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1994 REPORT
DIAMOND DRILLING PROGRAM
ON THE SEATTLE CLAIM
THIMBLE MTN PROJECT

Greenwood Mining Division British Columbia



NTS 82E/1 W Latitude 49° 09' N Longitude 118° 30' W

FILMED

lan Thomson and Doyle Albers Orvana Minerals Corp

January, 1995

GEOLOGICAL BRANCH ASSESSMENT REPORT

23,755

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INTRODUCTION

The Thimble Mtn Project is located approximately 20 Km north of Grand Forks, British Columbia (Fig. 1). The project area lies on the eastern side of the Phoenix-Greenwood Mining Camp, which has been a significant producer of Cu-Au ores from skarn deposits. The largest deposit thus far in the camp was at Phoenix, where almost 27 million tonnes of ore grading 0.85% Cu and 1.1 grams/tonne Au were mined. The Thimble Mtn Project is underlain by a stratigraphic package similar to that in the Phoenix camp. The property is accessed from the Granby River (North Fork) Road, the Brown Creek Road, and the old CP Kettle Valley railroad grade.

PROPERTY

The Thimble Mtn Group consists of four 4-post mineral claims, nine 2-post mineral claims, and fourteen reverted crown grants, for a total of 93 units. The Strawberry Crown Grant claim also forms part of the project area. Pertinent information is summarized below:

Th	im	hle	Mtn	Gro	un
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<u>Claim</u>	Tenure #	<u>Units</u>
Rathful 1 & 2 Lime Packrat Shickshock Sailor Boy RAD 1-8 Hummingbird Hummingbird Fr. Seattle No.1 Bunker Hill Loyal Canadian Virginia City Amie Blacktail No. 3 Fr. Mammie OK	216173-74 214998 214605 216645 216646 215243-50 215533 215536 214959 215000 215001 215002 215003 214980 215098 215099 215537 215532	40 18 1 1 1 8 1 1 1 1 1 1 1 1
Straw Strawberry Crown Grant	215120	12

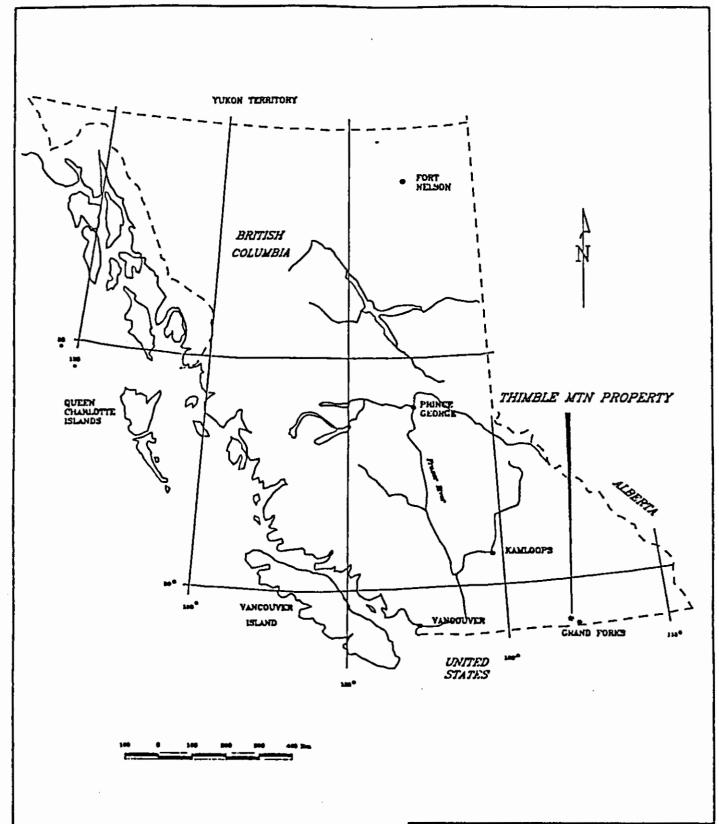


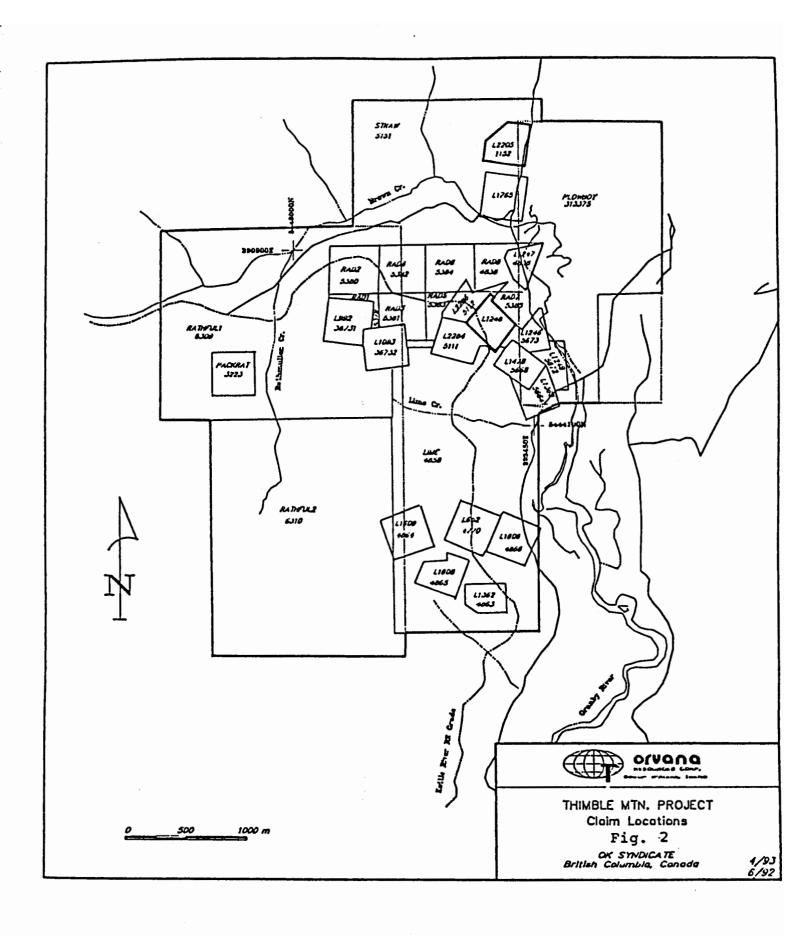


Fig. 1

LOCATION MAP

OK SYNDICATE Northeastern Washington and southern British Columbia

Opt #1



PREVIOUS WORK

No production records are known to exist for any of the claims on the property, with the exception of brief mention in the Reports To The Minister Of Mines at the turn of the century. Skarn and sulphide mineralization were noted on the Strawberry and Seattle claims, and sulphide mineralization described on the Hummingbird claim and at the Senator mine (Packrat claim). Gold and copper were identified as the metals of interest. Prior to Orvana's involvement at Thimble Mtn numerous groups conducted limited exploration within various parts of the project. Most of the effort was focused towards copper and much of the geochem was not assayed for gold. Orvana's consolidation of the district is the first attempt to understand the larger system responsible for the many small high grade showings.

Orvana assessed the potential of the project on similarities between it and the Phoenix and Greyhound/Motherlode copper-gold skarn systems. Production at Phoenix is recorded at 27 million tonnes at 0.85% Cu and 1 gram Au/t. Recorded production at the Mother Lode mine is 4.5 million tonnes at 0.82% Cu and 1.27 grams Au/t. The area was determined to have potential for hosting a large tonnage skarn-hosted, copper-gold deposit. Property acquisition began in early 1991, with the staking of the Rathful claims. During 1991 and 1992, pre-existing claims were acquired through exploration/mining leases with options to purchase. Additionally, Orvana staked the 18 unit Plowboy claim in 1992.

Extensive geologic mapping, grid installation, soil sampling, ground magnetics, and I.P. surveys were also conducted in 1992 by Orvana personnel.

REGIONAL GEOLOGY

Geologic mapping within the Grand Forks and Greenwood areas has been published by Little (1983), Church (1986), and Fyles (1990). The area is underlain by moderately deformed volcanic and sedimentary rocks of late Paleozoic to Mesozoic age, which are intruded by Cretaceous to Tertiary rocks of various compositions. Younger volcanic and sedimentary rocks overlie the pre-Teriary rocks in places, marking small, relatively recent depositional basins.

The oldest stratified rocks belong to the Knob Hill Formation. It and the overlying Attwood Group are Carboniferous or Permian age. Both groups consist of andesitic volcanics and interbedded limestone, chert, siltstone, argillite, and conglomerate. The Triassic age Brooklyn Formation unconformably overlies the older rocks. It consists of andesitic volcanics (commonly clastic) and interbedded limestone, siltstone, sandstone and sharpstone conglomerate. These old rocks have been folded and faulted with a general northeast structural trend. They commonly exhibit lower greenschist grade metamorphism, with minor, more intense higher grade regional metamorphism.

The oldest intrusive rocks in the camp are diorite dikes and sills, which possibly represents feeders to the volcanic rocks of the Knob Hill Fm. Serpentinite occurs as lenticular bodies within the Knob Hill Fm, and along major faults. The age of these rocks is uncertain. Fyles (1990) suggests that the serpentinites are part of an ophiolite sequence that was obducted during post-Triassic time.

During the Cretaceous Period, extensive intrusion of rocks grouped as Nelson Intrusives occurred. These rocks reach batholithic proportions, and range compositionally from diorite to granodiorite. They are generally hypidiomorphic to equigranular, though on occasion are porphyritic.

Tertiary (Eocene) rocks in the camp belong to the Penticton Group. This consists a basal series of immature sedimentary rocks and volcaniclastics, and an unconformably overlying

series of volcanic flows. These volcanics include andesite, trachyte, and phonolite. Intruding the stratified Tertiary rocks are a variety of dikes, sills and plugs, with wide compositional variations. These rocks include syenite, pulaskite, monzonite, and diorite. They have been grouped with the Coryell Intrusions.

Structural geology within the camp is complex. Fyles (1990) has identified five thrust sheets that are Mesozoic age - post Brooklyn Fm depositional time and probably pre-Nelson intrusive time. Rocks within these sheets have been folded, and the thrust planes are characterized by serpentinite emplacement and intense deformation. Tertiary age deformation occurred within an extensional environment, and is evinced by northerly striking normal faults with shallow to steep dips.

1994 PROGRAM

The 1994 exploration program was designed to drill test copper-gold mineralization and skarn alteration in Triassic Brooklyn carbonates at the Seattle showing, which are down-dropped along the eastern margin of the Republic Graben. Detailed geologic mapping and sampling in this area yielded 1-2 meter rock chip samples with gold values up to 0.2 OPT Au and 0.5% Cu.

The drill program, which began November 4, 1994 and ended November 28, 1994, was conducted near the historic Seattle workings where Cretaceous diorites (believed to be Nelson equivalent) intrude a sequence of Triassic Brooklyn Limestones and marine volcanics. All work took place on the Seattle claim. The core is stored under cover in Greenwood.

The first diamond drill hole (TM94-1) is oriented at 300° azimuth with an inclination of -45°. This orientation intercepted the raise pits at depths previously unsampled, although only minor zones of alteration and mineralization were intersected. This hole continued to a total depth of 247 m (811 feet), intersecting a portion of the main diorite body mapped at the surface.

The second diamond drill hole is approximately 120 m north of TM94-1. This hole (TM94-2) was drilled at 280° azimuth with an inclination of -45°. It intersected 5.5 m of garnet-pyroxene skarn with some pyrite and chalcopyrite in the upper portion of the hole. Gold values are low, generally <100 ppb; copper values are anomalous, but not substantially high-grade (see Appendix 3).

The third hole (TM94-3) was drilled from the same pad as TM94-2, and at the same azimuth (280°), but with an inclination of -70°. This hole intersected more garnet-pyroxene skarn than TM94-2, with zones of alternating diorite and skarn down to 41 m (135 feet). This sequence of alternating skarn/diorite from 28-41 m (92-135 feet) is thinly banded, calcite-rich (40-50%), and generally contains 1-2% pyrite and chalcopyrite. These skarn zones may be replacement of tuffaceous volcanic rocks or calcareous sediments interbedded within the volcanic sequence.

Cross sections indicate that these skarn zones may be lense-like, as they seem discontinuous and difficult to trace from surface to depth (see cross sections A-A' and B-B').

Diamond drill hole TM94-4 is collared about 100 m southwest of TM94-1. It is oriented at 270° azimuth with an inclination of -50°. This hole was projected to intersect the volcanic/limestone contact at approximately 150 m. A small fault zone was intersected near 150 m (500 feet), so the hole was continued for an additional 15 m (50 feet), but this hole failed to intercept the limestone/volcanic contact. The hole was terminated at 167.6 m (550 feet) due to the lack of hydrothermal alteration and mineralization. Some silification and epidote alteration was seen from 21-30.5 m (70-100 feet) where the raise pits alteration zone projects to the southwest, but very limited alteration and mineralization was seen along this projection.



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Figure 4

Drill Hole Location Map
Seattle Claim

THIMBLE MTN. PROJECT

Beach
Cute

TM94-2 & 3

Diorite

Brooklyn
Ilmestone

TM94-4

Brooklyn
Volcanics

TM94-4

Brooklyn
Volcanics

OFVOICE
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HOLE #	DEPTH (m)	AZIMUTH	INCLINATION
TM94-1	247.2 (811 ft)	300°	-45°
TM94-2	101.5 (333 ft)	280°	-45°
TM94-3	86.9 (285 ft)	280°	-70°
TM94-4	167.6 (550 ft)	270°	-45°

CONCLUSIONS

The objective of this drill program was to test the extent of skarn alteration and mineralization associated with the diorite stock near the Seattle workings. The limited amount of drilling conducted in 1994 indicates that the skarn alteration in this area is limited to thin contact zones about the intrusive, and the mineralization associated with this alteration is anomalous in copper and gold, but values are sub-ore grade.

RECOMMENDATIONS

Other potential areas of skarn alteration and mineralization exist on the property and should be further evaluated. Plans to carry out this review are being finalized, and a decision on the next stage of exploration is expected soon.

STATEMENT OF COSTS

Dellina	\$Cdn
Drilling Mob-Demob, set-up, plus 603.2 m (1979 feet) NQ	37,602
Salaries	
50 days @ \$200/day	10,000
Room and Board	
45 days @ \$60/day	2,700
Laboratory Assays	
100 samples @ \$15/sample	1,500
Vehicles/Transportation	4,000
Field Supplies	2,000
Total	\$57,802

STATEMENT OF QUALIFICATIONS

- I, Doyle F. Albers, of Sagle, Idaho, U.S.A., certify that:
- 1. I am a geologist employed by Orvana Minerals Corporation, 710 1177 West Hastings Street, Vancouver, B.C., V6E 2K3, in their office located at 1755 Silver Beach Loop Coeur d'Alene, Idaho 83814 U.S.A.
- I am a graduate of the University of Idaho, Moscow, Idaho, and hold a M.S. degree in Geology.
- 3. I have been practicing my profession for the past nineteen years.
- 4. This report is based on information that I and others under my supervision obtained while on the Thimble Mtn property for the period December, 1994.

Doyle F. Albers Geologist, Orvana Minerals Corporation. Dyle 7 allen

STATEMENT OF QUALIFICATIONS

I, Ian Thomson of 1628 West 66 Avenue, Vancouver, British Columbia, V6P 2S2, do hereby certify that:

- 1. I am a graduate (1967) of the University of London, England, with a Bachelor of Science degree in Geology and a graduate (1971) of the University of London, England, with a Doctor of Philosophy degree in Applied Geochemistry.
- 2. I am a registered Professional Geoscientist in the Province of British Columbia.
- 3. I have been continuously employed as a geologist-geochemist involved with mineral exploration for 21 years.
- 4. I hold the position of Chief Geologist with Orvana Minerals Corp.
- 5. This report is based on information obtained by myself and others working under my guidance and from analytical data obtained from commercial laboratories.

lan Thomson, B.Sc., Ph. D., P. Geo. Chief Geologist, Orvana Minerals Corporation



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APPENDIX 1 DIAMOND DRILL LOGS



Page 10812
Company Orvana Resources Corp

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Broken Core Malthy Hemotite	
Epidote Dicor Chlorite D	
- Epitorie Li	700-

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Ppy portions.					F343	<u> </u>							
E	-		1.	Froct. Cuts lithics	E								1 =
Vale agglom/brace wheretic little some			.//	O.Yma of strak, O.Ymin PY	168	10	10	100					
-350-350.7 Kd? Pior dikeletalsh upper	350-			Heler Ital to midely-sp	-	1							
- 351.7-449' Kd? Nelson Diorite?				351.7-449'-	-353 -	1							Ⅱ ∃
Ealternative interp: Rb Hypabyssel		[·		while producers to the	FOR		10	100					20=
grained oquigrander diorite upper	3 <u>60</u>						10	100					
- and lower cont sharp local dk	=		, [' .]	wilely-sp coults. Rere	363								II I
E gy att. clouds intrusive txt-stut	=	-		Terrosive chlattel	E								∥ ∃
pervasively visible. Generally 1254, milky plag xtals w/interstition	=		. '	matics	(82)	10	10	100					E
matics> amph >chil, bio->chil	3 <u>70 </u>	:	1		F								1
Lecally, bloor more leveration] =		· · ·		-373	-	-						=
- Matics are bk-qubk + slassy	=				5		١.		15.E.C				2/=
- bio Damph? Za 40%	380-			1300 mar 379-381- 61 dier	70	10	10	100	37E.C	5.1	1		=
E 610			7.	Most more 379-381- Wholese of the state of the Verning from	E383				38? 0	5.0			=
E	=			Joveded by late Gezell	上						1 1		
F	=			Vein	189	10	10	100					:
mod milky gray all of ground mass	390			dies clos et fign	E								
E grandmass	=		1	· ·	393	-	-						22
<u> </u>	-	1	1		170	10	10	100	395.0				-
E	1/200			Crow proff	403	1			37.5.0	5.0'			:
	400		1-/	L	11403			Ь	ш		- 		

		GRA	PHIC	4	R	ECOV	/ERY			AN	ALYTIC	AL		
LITHOLOGY, ALTERATION, MISC.	FT.		G FSILICA	MINERALIZATION	Run	Run length			Sample	Interval				вох
= 351.7-449': Palable Kd-Diorite	400_		1	2400-402.5: 61 dir 1274.381 Basico wigta a c. viss 274.381 EH D25ed truncales at 2+	70 403	10			y03.0	5.01				22 =
Sngn, stroale &, convolute ce bands, possible digest Carbonada Koralith	4/0	Ð		str ce telithmed /bonds in for dier? poss to an epy assoc. w/		1 1	9	100	412.0	6.0				
	420			streak clots. rare ep py > matics	(8) (2)	10	10	100	417.0	5.0'				23
Marigeners More cut by			1	whice all of play (c coord front 2650 out	-422 - - - - -				425.0					
widely scat coulds, pry-positive sporadic dark, by makis enclaves	4 <u>30</u>		10	lem gd un w/ pytch! d unkin, fon him opinone (nun a yzg s ham tel mac) py ass w/chiclets + op of	-437	10	10	100	430,0	5.0				24
- - - - -	440-	1 1		Searts will helpes, to py	7	10	10	100						
Lower Kal cont. D similar stitude To RI hyp upper cont. 2457 lower cont shp 2-15-20			17	in Fracts, Chil beether is 195	442		10	100						
- 449-457= Rh Greenstone	450			vare to godise mt. v wkly mag. 15% diss aried py 1. groundmase Ce alt	-452				452.0					25
To an gysh wess aph ander, clif, leadly fry will syple phones.				constant of Dast - 422 coth spress of the second	459		7	100	457.0	5.0				
= 497 ~ 492.5 Tab Hypotyssal = ndidk gry, highly ver feet from	4 <u>60</u>		 	mod grag. avound mass corb. alt (cr->plag?)	773	4	4	100						26
clerdy gy, ath greatering & Engal	470		7	Condains less verily for greenstore éleus. Voit cont only mor py-p metics and sond tresces	43) 7-72.↓	, ,	10	100						

	GRAPHIC 45	RECOVERY	ANALYTICAL	T
LITHOLOGY, ALTERATION, MISC.	FT. GRAPHIC 100 MINERALIZATION	Run length Core %	Sample Interval	ВОХ
-457-492.5 Rb Hypolyssel Intr.	470- Sngu dies magnetite	10 10 100	-	26-
flows of erry of beving rare us mag. Graduliunal contacts + loss dist Atal fabric than Kd above. Enatics ->chl-probable amph>bio	Scattered ce selevits most fract -containing py	- - - - - - - - - - - - - -		77-
	490- Groundmess Ce Crs sub-ent pyrite dent		4E5.0 7,5'	
TK gn-54, missu aph chlardes. Rere seat frogs all to exp. Local ppy clits, zones and possible subvelcance dikelets	Solic is spendict of ce filled fairly dem set	60 8 8 100 501		28:
frogs of phan indry argillite tep-alt rock	hm. ult 245 ch ulch selv	74 10 10 100 571	506.c 5.0' 511.0	
irreselete de maples pl	日孫 where hm オイン	(6) 10 10 100 521	S20 C	29:
5/1 grandmass all by cc. 527-528: heterolithic bx - suberg Frogs of crowded ppy + apagrass	1 530 1 1 530	[] 10 /c /co	525.0	-:
Fragment medium? Velefither or terf	mod may true classes	-5411 10 10 100	,	30:

			GRAPHIC	45	RE	COV	/ERY			ANA	LYTICA	۱L	
	LITHOLOGY, ALTERATION, MISC.	FT.	LOG,lia	MI MINIERALIZATION I	Run		Core		Sample Inter	al			вох
	- 492.5-,5612 The Groenstone - MSSU gary ach ardee/gorit of - incr cesep alt tods for cons	540		covering increases 543 py < 1/2 Sinely dissal crose where classificant postably increasely Ep. ep-coult whale creat py	[[7 3]]		10		5450 5300	o'			30
:	Vague prijer	560	交交	scat ground mess carb alt. ssc. whe although in ground. cc all of ground mass	\vdash	10	10	100	555.0				31 =
	-1561-598 Rb mixed Hypologisal - and Valcanic Rocks. dilled cont - Highly vor color from v Hgy to - sk gr, and texture, from apt to brema - in pheneritic.	570	第一条 第一条	Voriole alteration styles (x ap-ce:py class, rapt frog? Generally non-mag Lucal co and ce: chiylis bleaching? Dissap + Hin cty specked (T.Oz?)			10	100	565.0 570.0	; '			=======================================
•	-566 ~569: Hydret bx? Lt gy. bngy api vole frog is a complex mt of silien. chl. ce times py. 5715-5742: 61 introciv bx: angular to revoked phan ignerat xtal frogs? cut by ce vits. Scatichly	5 <u>80</u>		Py content from nil > 1/2/2 in colors of second with the process of wild go chil 565-5665: pyacil with front fill. 2005	(A)	,	10	100	585.0	_			32=
	Silico 21t. 581-585: Int by or vole by substituted phonoritic Error in a be aph nitx. Local incopy. by to 2% I acciomph	590-		of growns of clayald or placy phenos. 1 583' disc oproult which diss py in well rock	187 187	10	16	100	5.0 585.0 590.0 5,0	-			32-
	Forme-schl - 598-6225 Rb Xtal-lithic Tuff	600		bio? try all of grandmass Vully townly magnetic	-85 -601	10	16	100					
	- var Hansy to dkey volconic lastic. Lighter estered rock fort to be more Tithic-rick, dain coloned rock gives Extely ash rich. From conting bkersy plantaly, and chlappenge velo.	-		Midely special to stkail Minor Egn dies py Tomotries, lithice & Millenge Landed right ur 265 766	78 (78)	10	10	100	606.0 611,04	o'	-		34 -

į	7,,,,,,	T		TI		T			1	r						
	LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC		MINERALIZATION	R	ECO\				AN	ALYTI(JAL			вох
			لرOG <u>چ</u> رح:ا		15	Pun	Run length		•,	Sample	Interval					
E	- 598-622.5. Tel xtal-lithic tuft.	610 -		ZII	epvils + repletels.	611	10	10	100	€11.0	5.01					
-	the play set of foogs locally abundant.	=	1 11/			<u> </u>										34=
· þ		=	11/		11 2 - 54	(81)	9	9	100							1-4
<u> </u>	the asky leases cort buildy blakes to	=		XII	ER.S' py of 225't w	F							- 1			7
	- erly rare pyrite	620-			,	-620										
1	Vague centa 35°6	<u> </u>		زـ		E										=
	6225-683 = RL Greenstone	_		الرود	non magnetic	H73	۱,	10	,,,,			1 1	l			
þ	Mssv dkgn-sy to dksy aph	=		[]]	py ults temmen, up to 1.1% py locally, lesswas	F	10	10	100							35
þ	- chi andosite? Local who siles	630-	33112	<u>':]</u>	dies in well rock assoc	-630	İ			630.0				j		=
E	- pheros obs. Grad conject	=			w/cetch/alt	E					(1		=
E	information matic totaled.	=			bh- 1 Mg 5 52.32, 5	F (2)	J			635.0	5.0					
	<u> </u>	=	/ 3/11//		Xm 1 cm wide, milhalo X.cm py ta vits when it	(89)	10	10	100		,	1	1			
ŀ		_ =	7-1		epall. Culby ce utic	F	1	ļ			5.0					
F	ulely gry txt	640 -			Brids deper op chie	640	 			640.c		1				
E	rounded intouting]	ر المغيد			E										
	roundal introtage a 643			V-	braided ce-pyschl ults	(R3)							- [
:	no volc structure remains	=		′	rare py		10	10	100	6480						
:	<u> </u>	650-			ce-chl was 240° & wich!	-650	1			C 1212		1				36=
:	-				frep	-				(53.0	5.0'					
: [=		71		E				653.0		1		1		
: [_	_					10	10	100				İ			
:	<u> </u>	_ =	9	1	irrag epaceach strops	F.										
İ	- tay surly etg	660-	1	E	•	-660				660.0		-				
ŀ	Flows affected y	=			palegn april ass when	E				ĺ	5.0			-		
l				4	programme and	185)	1	,,,,	665.0	J.C.			ł		37
E		=		$\mathbb{Z}_{\mathbb{N}}$		E	10	10	100		50			ı		
		670-		/		F670	k			6700	5.0					<u>-</u>
	-	-		ᆀ		173										
۱Ė	_/ 1.7	=			tight costkark one	27 -675	5	5	100							
IF	plas pfy tot w/bio? alt of groundmass		3113	<u>} </u>	iver groundmess te		_	-	-							
E	all & crovidiness], =		州	w/depth &	(63)	8	8	100							383
lt	-	680		$\cdot \parallel$	675- CES: \$35.76 75	683	<u> </u>				Ĺ					

11.110812	T				Пь	ECO:	VERY	, [ΔΝΙ	ALYTICA	1		
LITHOLOGY, ALTERATION, MISC.	FT.	GRAF LO		MINERALIZATION ~	-					AIN		T T		вох
	680-	्रा स्टब्स	-		Run	_	Core		Sample	Interval		++		
E Kb Greendene	=		1 .	wielely specel re vita	(S)	8	8	100	€83.0					
- 683-7131 Rb Tuffaceous lithic tall			المذا	who mad may	F					5.0				
- Gredational up+lw contects.	=		1	ridaly scotfered as stands	3	10	10	100	6.88.0					38 <u> </u>
Interm to making and sy to dis singly	690-		4											∥
osty of scat who play what from	=			*GERGER- Int co-pyode unfalt of great.	693								-	
Earl worded photoeritie, into	_			Mer uten diss py, locally up to 1/2 1/2 over 1/4 areas	IF									-
trus.		10		ce all It to stulk	[E68)	7	7	100					1	
= ~700-913- xtal-rich toff	700-		13	Lep rold all et aregelits, stress	700	<u> </u>		_						∥
E 400-775-712-712-712-712-712-712-712-712-712-712	=	0,	忆			5	5	100						39=
E I	_		1/	morphise py in artru frags	-703	1_	-							Ⅱ∃
· E	=	0	1	Co Cort Front 2 3506	1			60					ļ	
<u> </u>	710-	>\	17			18	7.8	48					Ì	⊩
E		2	./		7/3									
- : 713-762': Rb Greenstone	_		'[:	son, to locally make mag. Sli incr in Co vaining from above toly; Exer en accounts	<u> -</u>								-	∥∃
E Mssu, mdgy-mdgn-gy aph,			<u>'[]`</u>	Com a kora tull	1[63)	10	10	100						1/4
fecturaless synst kndes.	720		17.4		E			,00				1 1		
: E				vits	723	<u> </u>								=
<u> </u>			``		E									
Vague lithic Fragmeris Le toited forbic			5	space py.	150	10	10	100						
E fe teitof forkyis?	730-		· .		E	10		100						
synul dikelet a			1/		F733				734.0					=
Scot plag xtals			١٠/.]		IL.			-	757.5	50'				$\parallel =$
F				diss- Freet controlled by	181	10	10	100	739.0	5.0				41=
<u> </u>	740-		1/1	constitute for halo x-cut	<u> </u>				1,2,1					
E Paridie Frostat Mills From	=			exall produces	F743	3								=
- Suggest entire unit		4	لننتل	Listing of care	1									
English till ir some crse epolels may -> lithics?	=			111 to voice 11	E3	/0	10	100						42=
E '	750		1.1	Cortect to long	753	<u></u>								

		CDA	DLUC	44	R	ECO\	/ERY	,]		ANA	ALYTICA		$\overline{1}$
LITHOLOGY, ALTERATION, MISC.	FT.	U LU	PHIC OG CSILKA	MINERALIZATION	Run	Run length			Sample	Interval			вох
- 713-762': Rb Greenstone - mssv - dsy to an sy grand, Sectureless	750-			scat ep. sporcesedpy fact uts present	(F) 253	Ь							
Eather than periodic trag tot.				red cale ground mess,	46			(00	7 57.0				42
gritty, eladie tot?	<u>760</u> -		7.5	Corbonale tilled bracken Whele bross 2 ~150 € Caliche Tehlimitpy clet	- 7 63	10	10	100	762.0	5.0			
- 762-E11.0TD Kd 9tz diente der	=		233	762-763.5-LX,61 P.JY 4.	763	 			763.5	1.5'			
Var celes + 1x1 to 780. AH cont Zene. Vol in a listing to protect zone 1 start	770-			ty ty silvat whice Trypusil	1	0	10	100	769.0	5.5'			
- Kol is distinguish content some is the 1799) - from Rb Hypelay with ensiler com by 9to - typescree of tab tec.	=			Meak but pery sile! 703.5-779.5- alt dier. V Mest empht in ait to see	773				7740	5.0			43=
expresence of tab tec. The presence of tab	70.			threat of wto py	<u> </u>	8	8	100	777.5	5.51			=
777.5-781.3 - Tertiary matic disc of long that apt ground of locally abound plus phase should	780-	7		tr dissult py, nonmage	781	<u> </u>			781,3	1.8'			
=781.3-811 Mostly why altigation	-			Dior is while silice tall maties are all tochli	E (37)	10	10	100	787.0	5.7'			
Hindsy equistan, plan sult spepper dior. Tal, euch bk amphy whiplag mals	790-		;	He ce in struk vites	71								44-
greun: mass 793.795-64 phy pry Tent dike. Bernner lichtergy tenerd: lemer Cont.			ا	race uls py					793.0 795.c	2.0'			
temords lewer with	800-			Secret 254 795-804- Hay milly alt of dier. Incrediss pyto 16th Tetal y tie - maties.	464) E	10	10	100	€0.0	5.0			
E				Tetel y tie sources.	F .				804.0	4.0			45
	810			nil ce to potomor sipy chl-sout	(7) E1	10	10	100					
TD 2 811.0'	=		-		- C/								
<u>-</u> -	- - -0<3				E								



DIAWOND DRILL HOLE LOG

Company Orvana Resources Corp

			•
LEGEND Silia Pyride Z	SURVEY Footage	Bearing	Inclination
Foult Front Calcide D			
w/cloyer fear Hemotite &			
Epidote / Chkrise			

Property Thurstile 19th. Location Seattle Showing	Hole No 7/17 94-2 Bearing at Collar 280° Inclination at Collar - 45°
Coord Collar N 9/62 N E 10865 E	 Length333
Elev Collar 645 m Date started ///3/94	Core Size
Completed 11/16/94	Logged by 24- ADE;

		GRA	PHIC	8		ECO'				ANAL	YTIC	AL			вох
LITHOLOGY, ALTERATION, MISC.	FT.	Į	DG ilica	MINERALIZATION +	ROD	Run length	Core	%	Sample	Interval					300
= : magnetite	0 =		\prod	Note: Pervasive chlorite	E										=
chalcopyrite Tert dibe/sill	=]]	Servetion resulting	E										=
Cret : Nelson que dier dier	日日			Intetamosphism has been	=								ļ		=
arnet El	103			aritled from the	E										
garnet El Hypolysal intrus clinopyrexene Intrusive bx		l		Simplicity	F										=
Groenstone Velcenic log	ヨ				E										
F		1			F				}			İ			
Crystal and for lithic tubs	20-				E										
F C . 1 3 4 6 1 1	=		/	Itd py assoc w/ch/	E				240						=
- Casing to 24 - Bedrock	$\vdash \exists$	17	 	Gt-cpx'sk. Bands of grander			-		240	4.5		_	十		=
- (alegilicates obscur orig retolit, honever	=			Et-cpx'sk. Bands of grander It rulen gt + pale on est when shitse retro all. Some gd > by dk ein-bn gt along fact. Sy	E_	9			28.5						
CORE SIDLEN	30-		 - -	Menory: Misso bogt wigt with	150	19	9	/00	30.0	E 5	70	4	4	+ +	 -
- green, greenstore like falou where] =		; ; ;	2434: 20% gl, 60% egrtq, 10% ell						5.0					/ =
- tultorous? velcanic origin. Colesil			1	behin 31 - dy ba gt isol chts dk knif ir atra eprtes Qt reprottecht selv azo'c schi	E				35.0						-
Elimestone prote. Poss calc-siltstone	=			Sind reduce all? of mossy gloop? Survivary col repringence car engine		10	10	100	4.0	5.0					-
Skern development balanted	40-			by chi the all liss in low sk	<u> </u>			, ,	1	5.0'	1 1				
= ±42-83' Kd? Welsen Diorite,	=		خخف ا		43	_			420	,	1				=
may, sold+ popper tot dier who whice	-		, .:	ep = rd te cx -> equent plag	E				47.0	5.0					
-this tempt - , chi, plus -> ep, scottered	50		Mi	Tecrecet fract elly year som	HO)	10	10	100							2 :
Evele Xenely local endeskein	30-		64.	widely sp ce + ep ults.	F										
E			 ; ;	wide y spoudie dies py	23	10	/C ¹	100							=
		Ľ	17	[[d in (j in (Щ	10	1/6	100	L	Salisbury !	Dietz,	Inc. 198	1		ш

	GR	APHIC	2 2	RI	ECOV	/ERY	.		ANA	ALYTIC	AL	I	
LITHOLOGY, ALTERATION, MISC.	FT.	APHIC OG	MINERALIZATION	ρυn	Run length	Core	%	Sample	interval			\Box	вох
	60 6	77	chly Fe-ex enforced rere Fry	(1) (2) (3)	10	10	100	<i>6</i> 30.					2-
10 skern best Dtop or shy cent 230	70_	72	of ep-epr-py sk Band alad ob bu st hosting atodiss py up to 21/2 to the will ofte ull. invaded by		10	10	100	67 O	4.0' 5.0'				3
- - - - - -	80	<i> \f</i> /	equisely on fract 71.72. El-ep endosh? 1.24. Py trobin associate best tr fo disc py		10	10		77.0	5.0'				
				- - - - - -	10	10		<i>83.</i> 0	6.0				4=
	90			93		10	100						
	100			79	10	10	100						5
	//0_				10	10	100						
- - - -	120			· 事 言	6	6	100						6:
				58) 7244	7	7	100						

LITHOLOGY, ALTERATION, MISC.	FT.		APHIC	MINISTALIZATION	RI	ECO	VERY	,		AN	ALYT	ICAL		
ETTHOLOGY, ALTERATION, WISC.	F 1.	L	OG	MINERALIZATION	Run	Run length	Core	*.	Sample	Interval				вох
- Nelson dionition	100			Jesower of mornit It's marting mynetic Jo par net Jaknet J	1 1 1 1 1 1 1 1 1 1	10 IO	10	100	830	2.5 3.5 4.0				
= atmost ideal shap	120			sicien valts	- 119	6	6	130						6
- tenet			<i>à</i> 6	1-2% of dossiminated Pyrite	 = 5 <u>e</u> =	7	7	150						

. .

		GRAPHIC		RE	ECO\	/ERY	, I		AN	ALYTIC	CAL	
LITHOLOGY, ALTERATION, MISC.	FT.	LOG	MINERALIZATION	H	Run length			Sample	Interval			ВОХ
JEB- JEONS TOND, 2 (13 JEBN Just Jey, dry Aplanitic Locally Redding To presenced (2 60°C4)	/30		126-12d: - 12/ By ofthe 1245- Ch revise built clasts of preenshive Mf is no distincted, and Mt clastic rach south.	126 (G) -/33	7		100		3, 0			7-
26-133- presentante looks (1800 m) Egild green (gristofe?) This internal characteristic zed & modernik- intense silicitien from)	=	XXXX	12:12: 1. Propyedic after from fyteps + function 12:112: thereeasts - freproste	7	10	10	100	133				
premisers of epiclole Possibly, epidelu allered playio- clase It's slightly mynetic	/50-		144 VARI		10	10	100	148.0	5.0			g
of calcite Meso, colors of in ground a moss (fine grand	160		Silver fice hon + Epido be 125-165 1-19, of fi conformat of call to victo, applie victo and patches there and patches there		10	10	100	0.021	٤٥	_		
164-1685- TR Ryport Ossal intersion? OR MOSSA diorik? Geourdmass has given color (choule?) Phenocrysts of	170-		1/2-1% of Pyrite is represented as plession themseled greens is	9	10	10	100					9_
Play to class (mostly) + anothers The volcames = It's hypolysid dreit? 171-181 EB-6/200156000			well as in ventets Alundard amount of morefreeness of inflame	E	10	10	100	175.5	5.0			
Med glay This interval Replesonts of intermediate Between rollaries and Pypolicial utanino hubbarcon-olasts of Espagessal in volcanies	190		Coloite tep rolts ± pysite	793	10	10	100					10:

		GRAPHIC		R	ECO	VERY	'		AN.	ALYTIC	AL	
LITHOLOGY, ALTERATION, MISC.	FT.	LOG \$ % 5 \$	MINERALIZATION	Run	Run length	Core	•	Sample	Interval			BOX
TR B. GREENSTONE Md gray, Apr. 31 Rns = Rus ts of Eyan Egssal intrusive.	200-	/ / Y//X /	descimented by the associated by associated by associated by the second	- - - -203	1	Ö	100					0
= 205-216 - RB - Kypokyssal intansive Phanocoysts of plagoclase (?) and amphibility bacund mas aphonote			clasts of type Extrast solding solding		10	10	100	201,5	2.0			
dente groom seme geners et pagic blase altered to exidet	220	7 7 7 V	Il he control between scenarios and by your official of hematile Aliaban of this of conforted opidate. - Calable + Permitte		10	10	100					121
	230-	シング シング メ	Michaelhochines of epithote + colorife. apdoe salvages on functions	- - - -233	İ	Ю	COI					
<u>-</u>	240	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-240	1	7.0	W	237	3.0			
dionite -t has salt + pepper texture Xenoliths of volcanics			uniter of colorle a disson a pidate a	247	7.0	70	10-0		58			3 <u>-</u>
Some Physicalose aftered to	250		+ incorr of elight	23		60	100					
plugicalists near the content	260		Personal chloritishtan		10	้อ	loo					14 =
beforeen voternies and			CARCite Jeins	- -								=

LITHOLOGY, ALTERATION, MISC.	FT.	GRAP	HIC	MINERALIZATION	R	ECO\	/ERY			AN	ALYT	ICA	 L rr		вох
ETHOLOGY, ALTERATION, MISC.	, , , , , , , , , , , , , , , , , , ,	TÔ.		ŭ		Run leng:h	Core	••	Sample	interval				_	
After = 270 ft Broads	270-	1	1	1/2 : By - nidely spotadic disser by	1		8.0	100							
texture scallered resoliths of		1	j			100	10.0	100							15
In some place play = ep. amplif or brokle = chle.to when got to one any offer bo chlorite from the	280	!	<i>\f</i> .		- 283	2.0	2.0	וטס							
to charite house to che country to charite and associate with a constant	290	; ;	\(\frac{\sqrt{1}}{\sqrt{1}}\)			100	100	100							
hith altered world		,	150		293	10.0	10,0	In							46
·	302 -		المنابع المنابع	Intense propyélitie	-303		13.0	100							
	310		1 1	Intense propyelities alteration along some fixs. Selvages et epr close on tentines	-212		ю	100							17
		1	1.1.	and epidot grains mostly distribute cose to selvages			10	ID							
- - -	120 -	1	1.		= 22										18=
	330	:	, ,,			10	10	100							
			۲,	EOH	322						-	-			 =



DIAMOND DRILL HOLE LOG

Company CRVANA RESOURCES COAD

EGEND cieca vers	SURVEY		
Silecticotion & Expite	Footage	Bearing	
ravel/rand Calcite from			
LACKEN COLF COLF LANGUE			
Epidole & Chaite			-

Property THIMELE MEN. Location Scattle Skoning	Hole No. 71494-3 Bearing at Collar 280° Inclination at Collar -70°
Elev Collar 645 m Date started ///17/94 Completed ///20/94	Core Size

LITHOLOGY, ALTERATION, MISC.	FT.		PHIC	MINERALIZATION	F	ECO	VER'	Y		ANAL	YTIC	CAL		вох
ETHOLOGY, ALTERATION, WISC.		<u>[</u> [OG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval] BOX
Macrite Dest die see / pearly agric / Chilosoppile Dest Melson gt dion - dion / Biotile Department Cannet Description Conneppe orane Chocastane / role Light Hotile Casing to 15' Cante intering Cante intering Casing to 15' Cante intering Cante				- GKARN	م السالسلسة									
15-24 RB GREENS LONG Appl Book grey w scattered on Met. RSO, on in groundmass presim grand, Ly, when	20			12-125- Ay-Skaan 25-26 D		10	10	Col	200	5.0				
Toologit is relatively colores it per- serve original bunding sus ca protogith - 2 mestone? 22- fault zone, Intense Felx + cly	30-	i de	17/1/20	25.26 66-Pr-slaen + ep. 26-30.5- Missire Sin SPARINI Rad CEDING GA HEMICC + Py VA CC + Kem + R C G	- 25	10	8	80	30	6.0				1-
25-445- TO GREESTOND (?) 25-445- TO GREESTOND (?) If Ras ditinctive Banding 250-60°CA IN Res Bands g Massive Go Skakn, op, CPXI	<i>₩</i>			Caenel Bands + cornet phickes phi-Py apriles Charite - Baenet		10	10	NOU	45	5,0 4.0				-
Scaffered & rulb + nem 45-49-6h - sharn 49-52- To deconstone There are two distinctive layers O Apk dl on O op+ by consided greenstone) A			massive Gasharan -culcite vein sist Py +op who majoraty	<u> </u>	Ю	10	ارتق	\$ <u>0</u>	g D 3.0 Salisbury 3	Dietz.	Inc. 19	281	

Inclination

	[GRAI	PHIC	MINERALIZAZION	RE	COV	/ERY			AN	ALYTI	CAL	
LITHOLOGY, ALTERATION, MISC.	FT.	LC		MINERALIZATION	Run	Run length	Core	**	Sample	Interval			BOX
- 5- 69 to Creticeous Melsons - diorite (?) 2081, papper - texture Med grained - Three are some "phenocy."	60		1.00	si ss - Natic Minacles ale neleged to deput howite has herder growning locally to elegement of locally tereborment of epitholo	٠٠٠١ ما ١٠٠٠	Ю	10	כמו					3
Scallened rein 6 to 15 con the selvages of epidok on colort incles uper and lemon controls one swapp with me ba-	70-		*** *** ***	epitote (play-o epitote) fruit (play-o epitote) frui	E	10	ю	leo.					
Minora Byy; Page of Pries amph & Febrita 19. 315- Creanstone (1) Apfanition texture Med. green Scattoned	80		سر : نیخ	Scalled unttill of CC = epitate CR epitate	111111185	10	10	ססו					4
there is a class of dispitally 21 mins dispite to a class of dispitally 21 mins dispite to aller than volunically 3 think it and the highly altered	90-			reindent sign unets microfeschiers with cle volts of spidek, cless of spidek	82	10	10	তে					5 1
- fine grainal dienite of cooling unit) 31.5- 91- Dienite 97 97.5- Calmels Rain 375.34- Mitaroleanies Creenstone aphanite Dank gaun-chey	100		//	gareprepail) shaw sistly ga shaw cpx (1) shape with chis of jacant Rims of nagatite atomind charies mt him Bicpx shape gaparet 1800ma)		10	10		94	3.0 6,0			
24-27 Far ep + op skarn. This part of skarn it enduskarn it presson te, time of oborth 27. 103 - Bands of dx+cp + cpx skarn and greenstone landant guite asso- ciates with shary (25 to 10%)	110-		<i>¥,</i>	I .	- 112		ā	(62)	7/3	2.0			
SEC. FOREM ONE (OKARPARENT of FODX) 103-1048- Broomstone 1045-108- Nelsen divide SART PETPER Lenture (1545-103- More matic than 103-108) 103-105- Panins Frame coity.	120	1		local deregtes ment of ogitale (peg = spidel) inthe of spidel	- 125	10	16	100					

		GRA	PHIC		RE	COV	ERY			AN	ALYT	ICAL		Вох
LITHOLOGY, ALTERATION, MISC.	FT.		jG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval				
- 1/3-1/75 Kl Nelson - dionite? Salt and papper - texting loth on took - are shapp It's medium	130		/	ELNO'S of highly specifications and specifications of highly specifications and specifications are specifications and specifications are specifications and specifications are specifications and specifications are specifications are specifications are specifications are specifications are specifications.	F 135	10	10	ונים	727.5	3.5				7
Janinal of gray also In some places play a specific completely Scattered rack of CC, 21, 50-21, cary by Assem. By. amp - allow te	140		K COX	Coto of Canard share	E	10	10	5D	732	2.0				
hope silicities as he with Louis of manel shake Bundley The masse was conjunct Bundley 30-40° CA II the lower Confact rein of pink colour	120		H= X	147. 154. Silicities! Effet gasen releans sicie viet teptec clock geen chilerite viets.	1111125	10	٥	امح						8
- Mineral - 131-190 - TEB-Greenstone - Aphanitic, pappylistic	160_		/ × / h	Proposed of semantical with the second of th	E	10	10	10J						
to Collinear Scattered	170-		(1///	of pyp, te distrubutes in veinlets with co, epidate pyp, te-disson low-155- Habity security	E	10	ь	الام						9
- Chenel shown the clots one ce beauge Line of epithe and que R 67 asonne Go shown 150-100 Te B - Grows tome (me to-	80];yc	epidole vnltz epidole vnltz epidole vnltz epidole vnltz epidole vnltz epidole vent (2) sharathi z Rume eich vent	E	10	10	100						
oppendie (mosting) on jouplywhite looky the greenstane is prothy side: Fred side, fied zones on usually entirely a pidote, and fightly	<i>و</i> و			Fanes	152	10	10	100						

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPH		MINERALIZATION		RECO	VERY	′		AN	ALYTIC	٩L	вох
		Log			Ru	Run length	Core	*.	Sample	Interval			B0 x
Dionite? Type of poch: Dionite - granodiorite. Med grained Equippenaulan Call & pepper too ture	200			wend But personne Silicifien from mater NO-1001-100 mater Mindred - ochBuile 121/2 of dissent Alter Asing John micket Anthon	E		10	دما					
Color: mod grey, mily stray Mineraly: Play, 800 > umpl. Son Herned ralls of CC. Upper contact with ordernics - finel (3)	210	1 1 1	4.	21% of By reinles of epith to more intente proposition allesso-		10	10	lo					
120 - 209 - OPERN LARLY CONTROL - BEREZINALLY ESCHOOLENTIC MITTE - MINANTES ARE A FRANCI LO - CRENTE - LOCA CLY: PLY100 CREE - EP	220		À.	we of permire	111111111111111111111111111111111111111	10	10	IOD					2 1111
Loca Cly: physioches = ex 209-215 Relitively fresh diopile It has more motion Minerale 225-250 Nooff, without ypenish spry plotite	230-			ly - 1% of Disson By. Not megnetic amph. Br - chlowit or sec broke	1111 1112	ю 5	Ь	७७					
Sentleped Filt of CC 250-253 - milby dioc; le It's undersone the most intense alteration then colling diops to It - 100 you It.	240-			zyu - clost of greasture (2)	-24	10	10	100					ا ا ا ا ا ا ا ا
doesn't have sold maters:	28			GC 1617	-25	₹.0	8.0	Ivo	:20 :20	30			
	260	3			-26	10	10	w					H = = = = = = = = = = = = = = = = = = =

TM 94-3 Page > 0,5

LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC	c	MINERALIZATION	 		/ERY			AN	ALYTIC	CAL		вох
		LOG			Run	Run length	Core	•:	Sample	Interval		_	_	
- 15.28. Lenest unabtenced checite Solt + pepper texture man "Martie"	27 <u>0</u>			revelopment of spith to vein les	- 273	10	ю	22						7
dissift Solf + peoples fexture more "Mintre" dissift. There are several class of greenstone size of class varies from smm up to 1 inch.	280					10	10	100						
	1111				20									E
				EOH										



DIAMOND DRILL HOLE LOG

Company DRYANA RESOURCES CORP

Fruit Silica Fypite V. Fruit Frant Calcite J.	Footage
Epidofe CHBsily	

SURVEY Footage	Bearing	Inclination

PropertyTHIMBLE MEN	Hole No. 7.24 94-4
Location Gentle Stening	Bearing at Collar 270°
	Inclination at Collar
Coord Collar N8980 N	
E	Length550'
Elev Collar 672 m	Core Size NQ
Date started 11/20/94	
Completed 11/25/94	Logged by CL/

LITUOLOGY ALTERATION MICC	FT.	GRAPHIC	MINERALIZATION	R	ECO'	VERY	'		ANAL	YTIC	AL		DOY.
LITHOLOGY, ALTERATION, MISC.	F1.	rog ,	MINERALIZATION	Run	Run length	Core	%	Sample	Interval				вох
- :: Mainst le Praphyaite				l			١						=
Malaggaite Cret Nelson Biolite B. dion dion				E								İ	=
Gaenet Hypalussal into	E			E			1				1		:
	10 -			<u> </u>									
Careful Andles	=			IF									:
Caused and for	=			E									-
- Cusing 20'- (PASEREY, DE. RZO).			f a Wood Blob	E 20 0	_ ا	23	9	5300 1	E B	1	,		:
-	-	000	Broken core	-	<u> </u>		2	2	- 2	7			
28-30- RB - GREENStone	=	500	Majnolie of Rem +	F 23									ا: ر
- Applantic texture Dank grown	日日		MI = By fcc.	E	8	5	63						7-
Goe is fenctioned to the joints	30			E									
Application to the pool of the country of the count	=	• • • •		-31		\vdash	_						
SO-55 RB Cloons bine 31 Ans posphysicia texture Code visite from eight green - duck green - and grey oue to chaptic attention 39.5-42- Hypolyssile intan, [???])	13	想目示	weathy magnetic	E	6	5	33						_
green - durk green - and grey			Weally maynetic Scalledod Mt	- 37		\vdash	-	=7.0					2
39.5-42- Hypalyssil intaus (?!?)	40		Abundant emen at of epidote unets	<u> </u>	6	6	100		6.0				-
E	3		of diff opionstation	- 4/3		_	_	430'					
<u> </u>	=			F				13.0				-	-
E	S =	* a	1 1 1 6 1	E	10	8.5	35						
			locally development of	E									
			() BISTING ()	£3			\dashv						
54- Acute diletel midth Min) 459 CA Strong good Run unets			secondary British (1)	- <u>د</u> ي -					. Salisbury &	Dietz, I	Inc. 198	1	

	<u> </u>	GRAF	LLIC		RE	COV	/ERY	,]		AN	ALYTIC	AL	
LITHOLOGY, ALTERATION, MISC.	FT.	rig		MINERALIZATION	Run	Run length	Core	•.	Sample	Interval			вох
SR. 7-595- Dionite (?) an Eypagisine into. Leucocantic	60_			ARINDANIT EXTEC		8	7	કફ					3_
have chienton of En () Stress(1)				reinate playinchese spirite along these reinate Cate of magnetite reflorement In some places of earns to he fines	7	9	9	IOD	Λς.	4.0			
Mssr alga-gy to gold green due to content of alikaite. tok ontent of Next moderate silicitienth Scaffe and correinths locolly applyaite with	-			due to hother and his on to not continue the state of the	- - - - - 79	g	8	इ ध	70				4 =
loco By popplyaite with plancogysts of profincial and since and some some chief chiefs These are some chief chiefs				Mais epillente 1-27. et Bjæle dessen mynebite ce alab of mynebite telepting interiore proppiet e alianase lay -> epilote		8	6.5	81					
of constant-little tarr (2)	90			ily -> epith	- - - 92	5	5	100					
Mark to dat grand of play grand of play grand mark to dat grand grand of play grand of	160-		*	es-gg. stockwak calcite veins Ht - py - offiser	- 101	9	£.5	72	,				
E	110		***	fen græn epidote vnisti massive Mt replacement	1 10	9	7	76		6.0			
	120		1 1 3	Hein valts they ce 2-5%, of 1, - 1, while discounty Epithole every here	- 120		9,5	95	//0				7
				docen of Epidok - everynken Scattered delig MH	E								

		GRAPH	1IC	MINERALIZATION	RE	ECOV	/ERY			AN	ALYTI	CAL		BOY
LITHOLOGY, ALTERATION, MISC.	FT.	LOG #ce		MINERALIZATION	Run	Run length	Core	%	Sample	Interval		\bot		вох
- 125 × 142 Te & Greenstone - Aphanitic or Porphyritic - devence (phenoceyst: cf.	-		,,	op vulto disem ep	- 128	& 5		63 100						=
plajioclase plag - Deproche) Characteriziet by ment per- vouire silitication scaff volcanic and lithic fragment Southern or reining				1-2% dizean. Py Py + mt venlet. Magnetite repla-		10		IN						8:
the (minor) - 1/12-153- RE X-tal Citha tuff gradutional appara	-	S S		mass has dock gay ale to May . sette		10	9.5	35	144	6.0				9
contret white peals x told fring ord subscirold phanepe he in the 142-163 Teb Græns force Clasts of x-100 lethic	160			or ex vila.	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _	8	8	ଚ୍ଚ						
bell (with magnetite)	2			0	1 /69	હ	żΣ	94						
Leg. 192- kb speens fone Very fine grained Color wifh brownith time Southered or unling diff orientition (multiple			,	Intense dove Go- ment of socondary Brownial Brokke Possilly matics - Brokk	1 75	Ю	3.5	95						10:
yeneration of fractures) - tecin groundmass. - Liberties	180-			-silicitied 70 NE	- 188			160	185	5,0				1
	190-				- 151	3.0	3,0	100	152	50	-			-

=			T							T				
	LITHOLOGY, ALTERATION, MISC.	FT.	GRAF		MINERALIZATION	F	ECO		,		AN	ALYTIC	CAL	 ВО
1		<u> </u>	HCC	.		Run	fiun length	Core	%	Sample	Interval			
Έ	191-1975. Zone of intrusire				echeni core -cc vein	lŧ	1,0	1,2		///				<u> </u>
E	It's a small ground - It is altered: make Mine.	;co_			Perinsire dere-	E	1	10	100	(87-				_
;	Auls - chilomite postery sec bytite protty Pay - sandy book /conchist)	=			Epment of se-	201								-
E	sec Bitite pastly		1 4		condary bonnish	1=								12
 	Ply SANdy Cost Kenchat)	=	# N		Go fife.	E	10	2.9	20					
<u> </u>	_ 1975- 243 - TEB GEERS tong	210			1-2% of dissem	F								
E	VELY FINE GRAINED				reinles C	211	-		\vdash					-
E	_ Gotor: BROWNER gay	=			Not magnetic	IE .		Ì						
F	Hundly silicifical					<u> -</u>	9	9	100					_
E	Stationed ac minkets	220-				F								
: 	Will Brown mineral (Read)	-				220			$\left - \right $	210		-		_
E	light booms mineral (Read)	=				-					5.0			13:
E	possifi garnet (2), of		人	•	- CC //C: 11	<u> </u>	10	10	100	245				
F	sphene (1) 137.243 - This some has	=	7		-cc reining	IE .					50		Ì	
E	- Gighter colon / Gyhl Geoms	230 <u> </u>				- 230				230				-
E	with small clasts of	3	3			IE 250								<u>:</u>
上	- x. cy. stal affice traff and				signified zone	<u> -</u>	10	10	150	233	-			
E	chartizing clasts	\exists	3		31921114 EUNE	F					7,0			:
E	It's silicitied 243-253. RB Greenstone	240				E								14:
F	Color de la pagen - Cill	7				240				240				:
E	Obs ; dar haran - light green Relatively Content	_ =				F		9	100					:
E	- of colorte There are Few Coidobe (2) NACh 60 °CA	=		-	·	E	13	9	POD					-:
F	Epidote UNEt ere abbent	250-				-								:
E	in the each with seconon			-		2 Y9	4	ч	100	7.10	3,0			:
E	ky biolibe	\exists		~	-ce veins.	- 253				252				
F	1					1					6.0			
E	1	,,]			culcite zone	E	10	10	ba					15.
F	·	76 <u>D</u> -				E				253				_
F	1	Ⅎ				- 2/2								=
				1		_ 263				i				

		GRAP	ніс		R	COV	/ERY	,		AN	ALYT	ICAL		BOY
LITHOLOGY, ALTERATION, MISC.	FT.	S OF		MINERALIZATION	Run	Run fength	Core	*	Sample	interval				вох
= 253-273- E B GERRISONE = BBR: BROWA . SCATTEREN	: 70_	· · · · · · · · · · · · · · · · · · ·		Secondary Bobbs		9	9	кo						
substitution. Sent beaut substitution. Sent beaut x-tal (play) and lithic frage 273-316- Eb X-tol-lithic			100	- play -0 epidote	270	ю	0	150						8 S
tuff. Kur et gn-gg to They colored pock 17 more ask rich (273-252) 1302-316).	230			ce with pg	-240	10	10	100						
Locally a bin don't of white play (classic) possibly phane. Letic intr fragments.	300-	9	1/	- epido le	1 28	10	บ	ls0						17-
	310	9 9			- 310	10	Ю	ЬO						
= 314-315- Highly calonitized rowe				- CIRCHIVEIN	219	9	9	lor						
= 327-335 tuff with classis	32 0	2		Secondary Circhite		10	10	los						
ell intrusive (pressilly, hypolys- ell intrusive; yound mass applingetic, ple voceysts: play am philosola.	3 70	O O			335	6	6	10						19 <u> </u>

l	,	<u> </u>	GRAP	ніс		RE	COV	ERY			AN	ALYTI(CAL	
	LITHOLOGY, ALTERATION, MISC.	FT.	ĽŮ.		MINERALIZATION	Run	Run length	Core	٧,	Sample	interval	П		ВОХ
	- 315-373- R & Guernstone Applanitio, Locatey Phy, Thomesette Color Gift Jean, Out - dark Jug. It's silicities	340 <u> </u>	4	(1)	her beginson of secondition of the second of	1 1 1 1 3 43	B	æ	100					
	ilisely site of the fine places of the places	3.50			grattz	بايييا	10	(D	IED	348	50			20
	352-373 - Massive, appearation Right sikesified & coffeed Moss of co Local	360 -		<i>t</i> ×	s, Goified vein 270°CA < 14. Of Pyeide	351	10	10	180					
	373.375. hupabyssal chitem.	370		111	- ce veining. Secondary Biotite	302	10	10	100					21=
	to chopito + been second	350			pag- cridote	- 302		10	100					
	Just a clost of intrusive. 391-403- EB BREENSTONE md-dl year - By ht 1860.	390			19. of By		10	10	१क					22.
	- md-dl year - light green - Aphanitic There are some - clusts of hypablished intp. (?) - (381-384) by poerasive - characterized by poerasive - silicitication.	400		167	Pride, High content of calcite			lo	160					23 =

-1 " L' p. - 0, -

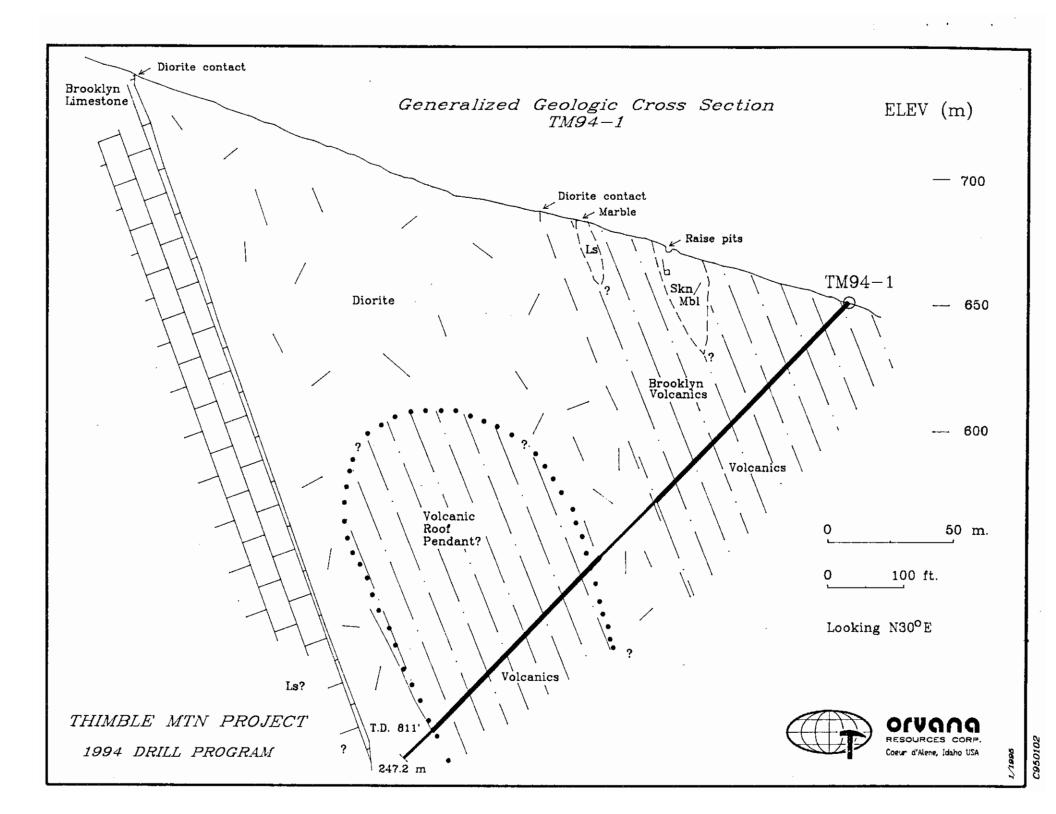
LITHOLOGY ALTERATION MICC		GRAF		MINERALIZATION	R	ECO\	√ERY	,		AN	ALYTIC	AL	
LITHOLOGY, ALTERATION, MISC.	FT.	ro.		MINERALIZATION	Run	Run length	Core	٧,	Sample	Interval			вох
728 x-62- elhic	4/0	101	7	ly ussocial with a consideration of the constant of the consta	40	6	6	100					23=
- 472.5- do h jeeg Tel x-tal- eilhic teiff. It is more x-tal Dick tash nich tuff; x-tal frequents of play and amph 6 hada tronal upper - lower contacts.	1111	0	× ×	cc veining		7	7	100					
- Coner contacts	420		1/.		=416 =	7	7	150					1111
Numerous Lithic clasts - io med grain hypatyssal, volc some v.f.g cherty frags (darpotme?) also, some clasts are pyestic matrix lominantly altered to chl = weak to moderate f.g. cale.		•	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	423-426- indernately	- 423				422.0	4.0			24
- To modulate 1.5. Cale.	43 <u>0</u>					10	10	100	1				
		6			- 433								
E	490	Service Service				10	10	100					25
<u>-</u>			$\left \cdot \right $		_ 44	3							
	4.0					10	10	100					
					- - 452								
<u> </u>	440		·			10	10	(0)					26=
- - -		0			- 463								
	# 15 m		炎	·		10	Ю	165	468.0	5.5			
- 472 5 - 485 - Hypabyssal intrusive - abundant plac (60-20%) with 10-15% securing that te sharp lower contact - upper contact should		A	15		- -473				472 5				

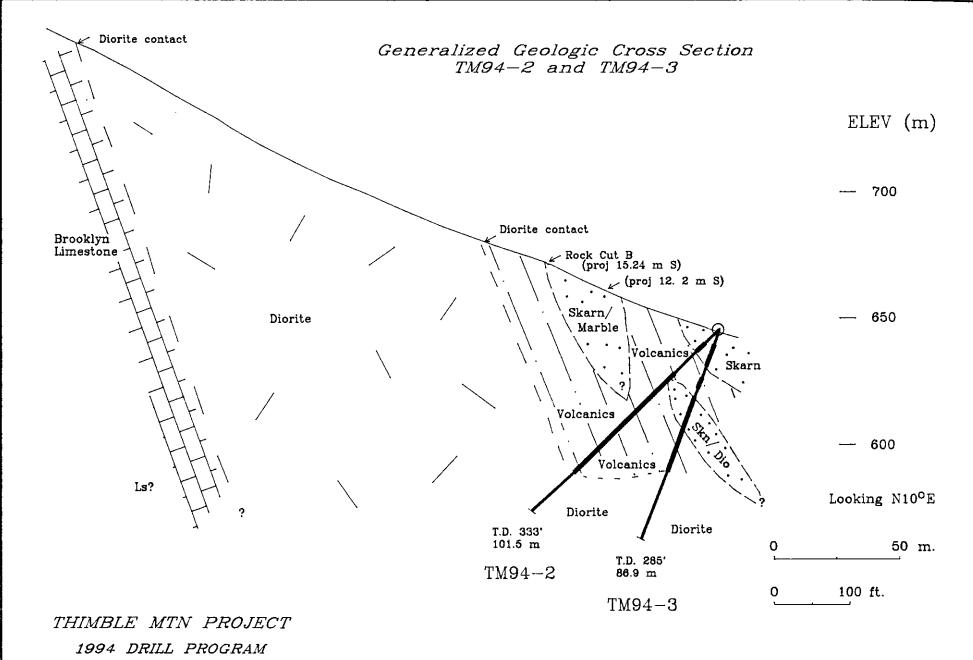
7.1.9.1 4 p. C of

			T	TT =	===							 -	
LITHOLOGY, ALTERATION, MISC.	FT. GRA	APHIC .OG	MINERALIZATION	R	ECOV		,	\	AN	ALYTICA	AL		вох
				Run	Run length	Core	%	Sample	Interval		4		
- much gtz veining + some bon	11111111			- <i>JB</i> 3	1	9,5	95						27
485-524, Modelate -light green ** ** ** ** ** ** ** ** ** ** ** ** **	130-10				O	ю 	æ						
- - - - - - -	90	X:	495-498 FEOX - Limonite along From the state of the state	- 500	7	÷	160						28
- - - - - - - - - -	570	1. 4. 7.	502-504. Small fault zne: Lt green white bleached zone 6xkm core abordant calcite. some silica. moderate epidote alteration telow fault zone portirable along fys; associally vns.	1	10	9	Ð	508 o	6.5				
	(2)		. , .,,	- 520	10	0	100	513.0 518.0	5.0				29
526-550 - Medium - dark grown - corphyritic volcanic RX with some hypolyssal volcanic by clasts.	Clo.			550	0	10	Igo						
- weak silicification of weak calcite - throughout		1/		- SYE	ā	10	lø						30-
E	5%1	1		E	10	10	100						

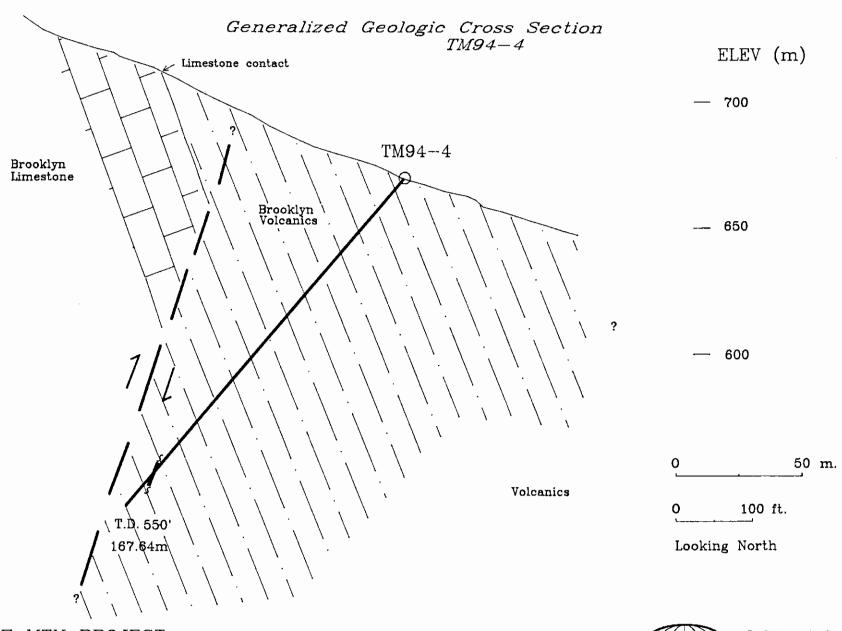
		GRAF	PHIC		R	COV	/ERY			AN	ALYTI	CAL	•		ВОХ
LITHOLOGY, ALTERATION, MISC.	FT.	GRAF LO	G	MINERALIZATION	Run	Run length	Core	%	Sample	Interval					
	- - - - -		·		E									-	
				EOH											

APPENDIX 2 GEOLOGIC CROSS SECTIONS









THIMBLE MTN PROJECT

1994 DRILL PROGRAM



APPENDIX 3 LABORATORY ASSAYS

SVL Job Number :X40330 sample Receipt :11/29/94

Date of Report :12/12/94 No. of Samples: 19 Core

P.O. NO. :THIMBLE MTN

Page 1 of 2

Client: PAUL DIRCKSEN

ORVANA RESOURCES

1755 SILVER BEACH LOOP

COEUR D'ALENE ID 83814

ATTN: DOYLE ALBERS

CLIENT SAMPLE ID	Test : Units : Method:	Au ppb FA+AA	Ag ppm FA+AA	As ppm ICP	Bi ppm ICP	Co ppm ICP	Cu ppm ICP	Pb ppm ICP	Mo ppm ICP
TM94-1:38.5-43.5		<5	<.1	<10	<10	10	92	16	<2
TM94-1:57.5-62.5		41	.8	15	<10	10	350	13	<2
TM94-1:82.5-87.5		<5	<.1	<10	<10	12	120	6	<2
TM94-1:87.5-93.0		<5	<.1	<10	<10	9	92	8	<2
TM94-1:113.0-120.0		24	.2	24	<10	9	180	8	<2
TM94-1:121.0-125.5		14	.2	<10	<10	15	89	11	<2
TM94-1:128.0-132.5		<5	<.1	<10	<10	6	19	6	<2
TM94-1:153.0-158.3		42	.5	<10	<10	12	220	13	<2
TM94-1:158.3-163.0		37	. 4	<10	<10	15	200	13	<2
TM94-1:182.0-187.0		19	.3	<10	<10	11	110	8	<2
TM94-1:187.0-192.7		5	.1	<10	<10	11	62	12	<2
TM94-1:233.0-238.0		20	2	<10	<10_	8	190	8	<2
TM94-1:253.0-259.5		118	. 4	20	<10	10	230	7	10
TM94-1:283.0-288.0		16	.5	<10	<10	12	150	15	<2
TM94-2:24.0-28.5	·	113	.9_	<10	<10	<2	250	7_	<2
TM94-2:30.0-35.0		18	.2	<10	<10	<2	120	<5	<2
TM94-2:35.0-40.0		44	1.1	<10	<10	5	490	230	<2
TM94-2:40.0-42.0		90	3.4	<10	<10	13	1700	.21	_<2
TM94-2:42.0-47.0		19	.1	<10	<10	6	37	9	<2

SVL Job Number :X40330

Sample Receipt :11/29/94

Date of Report :12/12/94 No. of Samples: 19 Core

P.O. No. :THIMBLE MTN

Page 2 of 2

Client: PAUL DIRCKSEN

ORVANA RESOURCES

1755 SILVER BEACH LOOP

COEUR D'ALENE ID 83814

ATTN: DOYLE ALBERS

	Test:	Zn	Ва
	Units:	p_{pm}	ppm
CLIENT SAMPLE ID	Method:	ICP	ICP
TM94-1:38.5-43.5		31	99
TM94-1:57.5-62.5		21	45
TM94-1:82.5-87.5		14	9.6
TM94-1:87.5-93.0		16	130
TM94-1:113.0-120.0		25	59
TM94-1:121.0-125.5		28	120
TM94-1:128.0-132.5		22	100
TM94-1:153.0-158.3		31	73
TM94-1:158.3-163.0		37	100
TM94-1:182.0-187.0		22	81
TM94-1:187.0-192.7		22	97
TM94-1:233.0-238.0		23	120
TM94-1:253.0-259.5		22	67
TM94-1:283.0-288.0		25	31
TM94-2:24.0-28.5		60	38_
TM94-2:30.0-35.0		75	19
TM94-2:35.0-40.0		1000	17
TM94-2:40.0-42.0		1300	37
TM94-2:42.0-47.0		48	71

Reviewed By: Cual Williams Date: 15/12/44 Charges: \$318.25

SVL Job Number :X40343 Sample Receipt :12/21/94

Date of Report : 1/06/95 No. of Samples: 98 DC

P.O. NO. :SKARN PACKAGE

Page 4 of 6

Client: PAUL DIRCKSEN

ORVANA RESOURCES

1755 SILVER BEACH LOOP

COEUR D'ALENE ID 83814

ATTN: DOYLE ALBERS

CLIENT SAMPLE ID	Test : Units : Method:	Zn ppm ICP	Ba ppm ICP
TM94-1:296-301		70	92
TM94-1:301-303		58	85
TM94-1:301-303		38	180
TM94-1:308-313		<u></u>	82
TM94-1:308-313		28	130
TM94-1:319-324		28	44
TM94-1:324-326		24	34
TM94-1:324-326			
TM94-1:3/8-383		71 50	120
TM94-1:398-403		58	92
		53	79
TM94-1:412-417 TM94-1:425-430		48	82
TM94-1:425-430		88	110
TM94-1:452-457		44	49
TM94-1:405-492.5		87 N / G	160
TM94-1:506-511		N/S	N/S
		64	41
TM94-1:545-550		100	78
TM94-1:550-555		200	50
TM94-1:565-570		230	47
TM94-1:570-575		140	470
TM94-1:575-580		100	170
TM94-1:580-585		140	490
TM94-1:585-590		n/s	n/s
TM94-1:606-611		71	480
TM94-1:630-635		110	320
TM94-1:635-640		120	320
TM94-1:648-653		140	330
TM94-1:660-665		100	31
TM94-1:665-670		80	160
TM94-1:683-688		69	110
TM94-1:734-739	-	42	29
TM94-1:757-762		100	120
TM94-1:762-763.5		56	690
TM94-1:763.5-769		77	160
TM94-1:769-774		200	69
TM94-1:774-779.5		94_	300
TM94-1:779.5-781.3	3	88	440
TM94-1:781.3-787		56	160
TM94-1:793-795		85	87_
TM94-1:795-800		53	29

SVL Job Number :X40343 Sample Receipt :12/21/94

Date of Report : 1/06/95 No. of Samples: 98 DC

P.O. NO. :SKARN PACKAGE

Page 5 of 6

Client: PAUL DIRCKSEN

ORVANA RESOURCES

1755 SILVER BEACH LOOP

COEUR D'ALENE ID 83814

ATTN: DOYLE ALBERS

	Test :	Zn	Ba	
	Units:	ppm	ppm	
CLIENT SAMPLE ID	Method:	ICP	ICP	
TM94-1:800-804		56	46	
TM94-2:63-67		310	80	 · ·
TM94-2:67-72		64	53	
TM94-2:72-77		36	46	
TM94-2:77-83	. =	42	73	
TM94-2:93-95.5		70	180	
TM94-2:95.5-99		65	440	
TM94-2:99-103		46	160	
TM94-2:126-129		53	53	
TM94-2:129-133		25	52	
TM94-2:148-153		21	_22	
TM94-2:153-159		39	150	
TM94-2:175.5-180.5		50	220	
TM94-2:203.5-205.5		41	230	
TM94-2:237-240		78	61	
TM94-2:240-245		44	70	
TM94-3:15-20		130	150	
TM94-3:20-24		120	150	
TM94-3:24-30		100	57	
TM94-3:30-35		210	30	
TM94-3:35-40		51	100	
TM94-3:40-44		43	22	
TM94-3:44-49		24	59	
TM94-3:49-52	-	20	65	
TM94-3:94-97		11	2	
TM94-3:97-103		_29	11	
TM94-3:111-113		23	3	
TM94-3:127.5-131		720	7	
TM94-3:138-140		36	110	
TM94-3:250-253		54	26	
TM94-4:37-43		N/S	n/s	
TM94-4:66-70		54	140	
TM94-4:104-110		75	45	
TM94-4:144-150		76	190	
TM94-4:180-185		600	210	
TM94-4:185-191		1000	170	
TM94-4:192-197		95	66	
TM94-4:220-225		290	320	
TM94-4:225-230		110	200	
TM94-4:233-240		83	120	

SVL Job Number :X40343
Sample Receipt :12/21/94
Date of Report : 1/06/95

No. of Samples: 98 DC

P.O. No.

:SKARN PACKAGE

Page 6 of 6

Client: PAUL DIRCKSEN

ORVANA RESOURCES

1755 SILVER BEACH LOOP

COEUR D'ALENE ID 83814

ATTN: DOYLE ALBERS

CLIENT SAMPLE ID	Test : Units : Method:	Zn ppm ICP	Ba ppm ICP	
TM94-4:250-253		66	150	
TM94-4:253-259		150	280	
TM94-4:343-348		51	200	
TM94-4:422-426		77	38	
TM94-4:468-472.5		180	67	
TM94-4:501.5-508		60	71	
TM94-4:508-513		30	11	
TM94-4:513-518		39	120	
E94-1:26-31		80	46	
E94-1:113-118		87	280	
E94-1:118-123		77	410	
E94-1:170-175		35	23	
E94-1:301-306		61	380	
E94-1:407-410		87	56	
E94-1:410-414		55	55	
E94-1:461-466		110	57	
E94-1:567-572		52	16	
TM94-4:137-143 EXT	RA	33	140	

Reviewed By: <u>Carollullia ins</u> Date: 1/6/95 Charges: \$1,591.25

