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DIAMOND DRILL HOLE

REPORT FOR ASSESSMENT WORK

ON THE

LONE SILVER PROPERTY (aka Lone Star)

SUB-RECORDER RECEIVED

ELSON MINING DISTRICT

BRITISH COLUMBIA

NTS 82 F/3

Latitude 49⁰03'N Longitude 117⁰16'E

June, 1992 Doyle F. Albers Orvana Resources Coeur d' Alene, Idaho GEOLOGICAL BRANCH ASSESSMENT REPORT

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Summary

The Lone Silver Property (aka Lone Star), located 14km south of Salmo, B.C. at Rosebud Lake was optioned as a joint venture project between Corona and Orvana Resources in 1991. The property is considered to be a potential host for large scale structurally controlled Au-Ag mineralization.

Corona completed a soil sampling grid over part of the sturcture in 1988, but failed to delineate any large anomalous areas of mineralization. Very little subsurface data exists for this property; therefore, Orvana decided to test the structure by drilling an angle hole to intersect the plane of the fault at depth.

A diamond drill hole on an azimuth of 310 degrees and an inclination of -60 degrees to a depth of 160m was completed in March 1992. The geochemical results of samples from this hole are still pending, but only minor areas of mineralization were encountered (<1% of core with 0.5% tetrahedrite 1-2% galena, 2-3% sphalerite, 3-5% pyrite). This hole showed an increasing frequency of dykes (sub parallel to bedding) at depth, but failed to penetrate the entire fault zone.

Location and Access

Orvana's Lone Silver (aka Lone Star) property is located in southeastern British Columbia approximately 60km east of Grand Forks (Fig.1) off Highway #3, 14km south of Salmo, at Rosebud Lake. The claim blocks are 2km south of the confluence of the Salmo and South Salmo Rivers in the Nelson Mining District. (Fig.2). Access to the claims is by all weather gravel road.

Physiography

The claims are situated in an area of moderate relief around Rosebud Lake with extensive pine, spruce, larch and balsam forest. Some swamps and intermittent creeks are also present.

Claim Status

The Lone Silver Property consists of three consolidated groups of claims (see Fig.2) as described below:

<u>Name</u>		<u>Record #</u>	<u> # Units</u>	<u>Expiry Date</u>
Lone Silver	1	55	1	09/06/93
Lone Silver	2	1331	1	07/11/93
Lone Silver	3	1332	1	07/11/93
Zip 1		4595	20	02/04/93
Zip 2		4596	15	02/04/93
Cat		4890	9	16/11/93

Regional Geology

The geology of the Salmo area consists of early Paleozoic Pend Oreille sedimentary sequence containing dolomite, limestone, phyllite, argillite and slate. The Middle Cambrian Nelway Formation (limestones and dolomites) is overlain by the Middle Ordovician Active Formation (argillite, slate, and argillaceous limestone) (Fyles et al,1959; Little, O.F 1195). Primary bedding features are present in these rocks, but they are folded, contorted and metamorphosed.

These rocks have been intruded by granites, granodiorites, and syenites of the Jurassic Nelson intrusions, and by quartz monzonites of the Tertiary Coryell intrusions. Minor sills and dykes of felsite, apilite and lamprophyre are also present.

Structurally, the area has undergone complex deformation including primary overturned and isoclinal folds which have undergone secondary deformation to open and isoclinal folds. Bedding and thrust faults are also common.





Lone Silver Assessment 1992

Property Geology

The Black Bluff Fault (strike 066 degres, dip SE) cuts the property on the south side of Rosebud Lake. The fault brings dolomites of the Nelway Formation to the south into contact with argillites of the Active Formation to the north.

At the Lone Silver workings, the Black Bluff Fault is represented by a broad zone of faulting with a wide variety of attitudes. The fault is marked by brecciated zones in the dolomite and by graphitic schist in the argillite. The Black Bluff Fault is slightly offset by the Styx Creek Fault (striking 350 degrees).

Mineralization occurs in dolomite both along fractures in breccia zones, and associated with quartz veining and quartz lenses. Quartz veins containing fine grained galena, sphalerite, pyrite, tetrahedrite, azurite, and malachite often pinch and swell irregularly with a maximum width of 10cm.

History

The original property known as the Hope, shipped Ag-Au ore from 1909 to 1915. The claims lapsed and the property lay idle until 1935 when it was staked by John and Robert Sapples of Salmo. Ore shipments were made from 1936 to 1941. During this same period (1936), Godfrey Birtsch of Nelson first staked the Lucky Strike and the Davne properties. Ore shipments from these two properties were made from 1936 to 1938, and shipments continued from the Lucky Strike until 1940. The claims eventually lapsed and were restaked by Lou DeKock of Nelson who made additional ore shipments from 1961 to 1963. DeKock later transferred his interest in these claims to O.G.G. Resources in a 1979 B/S agreement. The present Zip claims (including the old workings) were staked in 1986 and are owned by Dolly Johnson of Stewart, B.C. Corona (Lacana Mining) optioned the claims in 1987. Corona also purchased the Cat claim from Knox, Kaufman Inc. of Spokane, WA in 1987. Corona and Orvana Resources entered a joint venture agreement in 1991.

Ore Shipments

Showir	ng	Year	Tons	<u>Au (OPT)</u>	<u>Ag (OPT)</u>
Норе		1909-15	86	0.256	156.5
Hope		1936-41	106	0.603	83.5
Davne		1938	4	2.75	42.5
Lucky	Strike	1938-40	51	1.3	38.2
Lucky	Strike	1961-63	9	1.3	13.6

<u>1988 Soil Programme</u>

A soil grid was placed over the trace of the Black Bluff fault to try and locate anomalous Au-Ag zones not exposed in outcrop. Thirty-three kilometers of grid lines were surveyed and 1555 "B" horizon soil samples were collected. Lines were established perpendicular to the fault trace with spacings of 100m and station intervals of 25m. All samples were analyzed for 30 elements by ICP and Au values were determined by Atomic Absorption.

Results failed to define a geochemical signature over the fault, but several samples with anomalous metal values were encountered. The highest Au value found was 1103 ppb; the highest Ag value was 6.1 ppm; and the highest Zn value was 1739 ppm. These and other anomalous values were followed up with sampling on 12.5m intervals, but most anomalies were found to be very localized.

The only linear structure defined by the soil survey is a 50m wide zone of anomalous Au, Ag, Zn values trending 024 degrees from L10+00E to L14+00E, and in line with a linear swamp trending 024 degrees from L5+00E to L10+00E. Most of the other anomalous areas are randomly dispersed, and fairly localized. Often, base metal anomalies were low in precious metal values.

Geologic Mapping

Geologic mapping and rock sampling was limited by lack of outcrop on the claim blocks; however, Corona collected 135 rock samples, 4 stream sediment samples and 1 pan concentrate sample. The old adits and trenches were located and sampled, but no effort was made to enter any of the underground workings.

Anomalous results from rock samples collected around the old adits and waste dumps of the Hope, Davne, and Lucky Strike workings are in Table 1. No anomalous results were found in the stream sediment samples or the pan concentrate sample.

Sample #	<u>Au (ppb)</u>	<u>Ag (ppm)</u>	Zn (ppm)	Location	Comment
1113	290	542.6		Норе	Dol bx
7089	250	27.0		Норе	Qtz
1142	215	2.7	606	Davne	QV
1109	1260	72.6	12691	Lucky Strike	Qtz-gal
1100	3920	182.3	74581	Lucky Strike	Phyllite
1221	43600	175.4	3550	Lucky Strike	HGqtz
1222	3510	189.3	39084	Lucky Strike	QV
20933	5510	216.2	84643	Lucky Strike	QV
20934	5890	9.2	6712	Lucky Strike	QV

TABLE 1

1992 Core Drilling

Based on the above information and the lack of subsurface data, a decision was made to test the Black Bluff Fault by drilling an angle hole cross-cutting the plane of the fault at depth. A JKS Boyles 37 core drill was used to drill an NQ2 size hole at an azimuth of 310 degrees and an inclination of -60 degrees to a depth of 160m. A map showing the location of the drill site relative to the claim boundaries can be seen in Figure 3. Work on this property began January 15,1992 and the drilling was completed on March 25, 1992.

Generally, the geology of the core is a thinly bedded phyllitic limestone/dolomite, locally carbonaceous with numerous calcite and quartz veinlets both parallel and cross-cutting bedding; commonly 1-3% disseminated pyrite, with some zones containing 5-7% pyrite both disseminated and along fractures. Some quartz-rich zones (the largest being <0.5m) show minor silicification with 2-3% sphalerite, 1-2% galena, and 0.5% tetrahedrite; however, these account for <1% of the total core. At depth, (below 85m) numerous fine grained greenish brown to grey intermediate dikes appear. These dykes have a distinct schistosity or foliation which is parallel or sub-parallel to bedding. These dykes account for 50% or more of the core below They are generally less mineralized than the phyllitic 150m. limestone/dolomite, but they are commonly slightly more pyritic along their margins. Some minor lamprophyre dykes are also present. A complete copy of the diamond drill hole log can be found in the Appendix.

Geochemical analyses of samples taken from this drill hole are still pending at the time of this writing.

Conclusions and Recommendations

The angle hole drilled into the Black Bluff Fault failed to intercept significant mineralization over the 160m of depth; however, the entire fault zone was not penetrated with this single drill hole. It is difficult to determine the total thickness of this structural zone, but an estimate would be that this hole was still in the hanging wall since most of the sedimentary rocks were phyllitic limestones/dolomites (ie Nelway Fm.).

Past efforts of soil sampling have not delineated good potential targets for further exploration, but that may be due to the veneer of till covering bedrock. Drilling may be the best way to test the potential of this structural feature. Past production records indicate that this area has produced some high grade ore; although, relatively low tonnages (~250 tons). A single drill hole is not a sufficient test to discount such an area for potential high tonnage mineralization.

Geochemical results of samples collected from the core may show broader zones of low-grade gold mineralization than visual estimates indicate. Firm conclusions and recommendations cannot be made without such data; however, such a target should be evaluated with more subsurface data.



References

- Fyles, James T. and Hewlett, C. G.: Stratigraphy and Structure of the Salmo Lead-Zinc Area, Bulletin No. 41; BCDM, 1959.
- Little, H. W.; Preliminary Geologic Notes and Map of Nelson (N.T.S. 82F West Half) Map Area, B.C. Geological Survey of Canada, O.F. 1195.

Minister of Mines, B.C. Annual Report, 1938, pp. E17-E21.

Weymark, William J.; Preliminary Report on the Lone Silver Mining Property, Nelson Mining Division, B.C. March 28, 1969. Statement of Costs

Saleries

7 man days at \$ 170/day	\$	1190.00
Accommodations		
4 days at \$ 50/day	\$	200.00
Transportation (2 Trucks)		
883 miles at \$ 0.35/mi.	\$	309.00
Site Preparation		
4 hours at \$90/hr	\$	360.00
Drilling Costs		
506 feet at \$ 18/foot	\$	9108.00
Total	S	11167.00

Dyle Celben

Statement of Qualifications

I, Doyle F. Albers, of Sagle, Idaho 83814 U.S.A. do hereby certify that:

- 1. I am a graduate of the University of Idaho with a Master of Science in Geology, 1981.
- 2. I am presently employed as a geologist with Orvana Resources of Coeur d'Alene, Idaho.
- 3. I have been working as a geologist in the U.S. and Canada since 1976.

Dayle allen

Appendix I

DIAMOND D	RILL	HOLE LO	G				2						raye	101_	~
Company Or Company Or LEGEND: Beaking D Gtz pals of yns Dissem py calcite vns	SURVE	Resource Y otage Be	s Corp	Property Location <u>From</u> Coord Elev C Date sta Comp	v Lon n 1500 N en Collar N E collar_M leted_N	e_ 5 Inete d of noit arch	29 31	r sebuc 1 of 190	12 08 LK, 1 Swarp 92	Hole Hole Bear Incli Leng Core	no. 2 ring at Co nation at th 50 Size N size R	ip 9 Ilar_ Collar_ 6 fee D D . Fr	2-1 310° -6(t (2 Alerk eder:	az po inch	<u> </u>
LITHOLOGY ALTERATION MISC	FT	GRAPHIC	MINERALIZATI		R	ECO	VER	Y		ANAL	YTICA	-		1	
LINOLOGI, ALIENATION, MISC.	11.	LOG	MINERALIZATI	JN	Run	Run length	Core	%	Sample	Interval					BOX
0 - 50,0 Limestone: Medium grey, Thinky bedded phyllitic fissile., Bidding 0.1 - 4.0 cm the child developed microsof cleavage appears parallel bedding. Some bidding planes / cleavage planes coated with muscovite. Micro Folds common ; occur sincilarly or as intensity deformed bedding over sections 0.1 - 1.3 m thick. Folds are tight. Some minor series to along bedding planes		the I I will feel	0- veins minor prive veins minor prive (assentiated prive (mostly in 0:1 - 1:0 cm Some contain minor partice up to 30% Veins. Veins mostly bedding, but a few other angles Pythe actus as e to subledial discentiat crystals 0:2-10 mm d Larger prive Crystals aggregates occur in c veins. Smaller crystal discontinuities.	te (stick); statestatestate statestatestate statestatestatestatestatestatestatestat		16.0'	11.6	72	9951 4952 9953 9954	10.0 10.0 5.0 15.0 5.0 20.0 5.0 5.0					1
bedding and more abundant calcite veining leth preallel and X-cutting bedding	30 1111	C AMB	28.0-34.5 bedding contented with sligh veining, both para X-cutting bedding. S guartz Rich poor oi	is more ily more the + one 0.6cm		10.0	15.0	100	19955 19956 19957	3.0 27.0 3.0 31.0 3.5 34.5					2
Regular, parallel bebling 16.5.49.0 Broken innegular bebling	111 10		44.6. Several this fy up to bedding for 1.5cm lette -16.5-69.0 Abundant Verence both canallet	Hs parally ne leite		10.0	10-0	100	1995 8 1995 9 1996 0	3.5 35.0 3.5 46.5					<u>41.5</u>
semilant fracturing and calcite versing	50 1111	-	47.6- 48.0 Marsive wh coloite veir ~ perall bibding.	ite el to		10.0	10.0	100	19961	2.5 49.0					\$0.0

2:092-1 12-2-28

LITHOLOGY, ALTERATION, MISC	ET	GRAPHIC	MINERALIZATION	R	ECO	VER	Y		AN	ALYTIC	AL			
50.0 - 20.0		LOG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval					BO)
chyllitic LS. Manierliss thim (do. 1-0.2em) microcons inter bens with elements parallel. (with 5.00) to bens with elements parallel. contacted, but generally so-est territery.		111	50.0-68.0 Atom Jan Teal - 16 Vening, Sun 63 7, Estimations usin Beds vs. 200 non-opening X-cutting, colority for 5. Eurism To such for a series of 6.		10.0	10.0	100	19962	5.0 54.0					:
Abunda 1, calelle veining, generally 3.1. Sen The and calelle to beaution, and also x-east beas at streep angles, occasional inserve		51	with grains eil-2.0 Hall	56				19963	5,0 51.0					3
					10.0	10.0	100	19964	4.2 63.2			-	19	0.5
68.0.95.0 Generally, more fissik phyllitic			640.665 Calrite yeining parallel to ever axis with rsigns of utilikal movement alog that axis.	-66				19965	5.0 68.2				-	-
Zs v. thinly bessed (oil-1.0 sm)	70 -	1.	68.0-69.0 Minor Ferx parallel to bedding in the more fissile, thinly ledach is.		10.0	10.0	100	19966	4.8 73.0				l	
				76	-						-			
82.0.95.0 Slightly darker gray celet than above is (carbonaccous?)	80 -		80.0 - Bo-dinaged ? calette Win (w/ minor gfz) 0.5-4 cm thits.		10.0	10.0	100	19967	80.0 - 85.0					<u>9.1</u>
	90		910-990 Ka Ada an			-								5
			l'é as evicent diors and priviles whips a clots parallel bedeing		10.0	10.0	100	19968	90.0 - 95 0					-
		1	35% of yet, ranges <0.1 cm - 20cm thick; mitty product being	- 16				19969	45.0-98.1			-	2	8.1
- 20% of rock. Appendi to be weather of /c1. laton - Feature. - 101.0 - 103.5 Strong dudile deformation of	100 -		100.5 - 112.5 Interns Fied calcite Verning fills brees ated rock. Breesen fragments lack		10.0	9.8	75 %	19970	98.1-102.5				-	
- 104.0 - 121.0 Pronanced brittle deformation -	1		104.0-11515 Afre pyritic (= 2%)					19971	02.5-106.0					_
- closts are not rotated much.			ity is and bearing part barrants	_	10.0	10.0	120	19772	06.0-111.0				4	,
								19973 1	11.0-116.0					1
	120			-									117	24

Zip 12 - 1 Page 3 of 8

LITHOLOGY ALTERATION MISC	FT	GRAPHIC	MINERALIZATION	R	ECO	VERY	(AN	ALYT	ICAL	L		T
		LOG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval					- Box
- 100 - 170 Generally med gay, thinly betass - 25 Similar to above, but somewhat less fissile. Continued microsons interferes 5 foldin - parallel to bessive generally this (a.t.o. Zen) - Overall 0.5 - 1.0 To enhead chi - subirdraid assen - py grains up to 0.5 cm in size. Locally - come more enriched Zones			120-124 + 130-136 Minor shearing; rumerous discrimino calific units X-cut bedrine (70-90), 0.5-1.0% py nostly as entraral -rabbedress X/s up to 0.5 cm throughout.	126	10.0	<i>μ.υ</i>	100	-						
130.5-132 Small sheak sub purgilel to cone axis (15+20) shown as Kinked bedding	100	×/	130 - 136 minor gt 2 pods within some of the Hicker caleite uns (generally 1-3 cm)		10.0	0.0	100	19974	132.0					7
136.5-139 Some miror Folding, + shearing with calc. Uns X-cutting beds,	1111			136	10.D	10.0	100		136.0					1366
	u lu		141 - 150 Intermitent of t cale uns both parallel + x-ent bedding. X-cutling uns most intake. 143-149. Generally 1-270. py both dissem tas brokn uns. 147.8 - 149.7 Abundant fy	 				19975	143.0 4.0 147.0					
2012 - 152.7 Broken core probable zone of Lower Recovery (= 55%); some cale. Uns 0.5 - 1.0% enhedral py (dissem.)	150		and gtz uns with 2:3% py and up to 0.5% tetrahed? P/filso 2:3% sphl. 1-2% gal		10.0	9.1	91	19976	3.D 150.0					
156.0-161 Several gtz + culc UNS Q 150 to core axis with increased py content (1-370)	160		157.5-159 3-5% py in open FRAC. 0.2em wide Dr. 5° to core aris. Py is eu-subleted 4 generally color in size 159-160,5 D.Scm wide gtz Vn @ 5° to core axis. 012% py in and along Vn.	<u>156</u> 	(0.0	10.0	100	19977	156.0 5.0 161.0					- 15ED
	11111		166.9-167.2 Dike RX @ 3-4% f.g. dissem Py 4em wike str 167.0-1672 to core axis. This UN @ 20' to core axis. This UN contains 0.1:0.3% sph	 	10.0			19978	166 0 2.D 168.0		-			9
	m	1	175-185 Occassional thick 1.0-2.0 cm. calc + gtz veins sub parallel to bedding.		10.0	0.0								
	100				10.0	10.0	190	19979	182 <u>5</u> 4.0		_		+	
	90		0	-				18380	4.8			-)	=

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LITHOLOGY, ALTERATION, MISC.	FT.	GRAPHIC	MINERALIZATION	F	ECOV	ERY			ANAL	YTIC	AL	 T
190-224.3 - med gray thinly bedded is similar to above. 190.8-192.7 Gray - Green fine gri and intermed.	190	II.	190 - 224.3 Genericalis 0.5.1.0% Py up to 0.5 cm, dissem the cost	Run	Run length	Core %	Samp	le Interv	al			
- poetly all to kelling x has a distinct to hat m (70° to core axis) with 1.2 70 Fig. py dissem - along foliation places. Bleaching extends - 1' into - wall Rx either side of dike				196	10.0	0.0 100	19981	5.2				
198.6-204 Partly brecciated zone with some Folding + shearing and much calc. fill.	200 -		201-206 contains slightly				19982	5.0				
			as large en subhedral yls up to 0.5cm in size.	206	10.0	1,0 105	1997 :	5.0	-	111	-	
	210		206 - 224 several cale vnlts @ 10-30 to coreaxis; generally 0.5 - 1.070 py dissem_turnout.		10.0 10	0 100						 Tr.
	220	1.2/		216								
224.3 - 227.1 Greenish - brown fine grained dike, dominantly plag, (=60%) and bio (30%) portly alt to ehl. (10%) with no.5% fig. dissem, ey. Diss has a distinct faliation	III				0.0 10.1	/00		223.0		-		
extend 3"4" from marging of dille.	230		227.1 - 245 Several calc units x-cut bedding @ 105-30 to core axis, but generally				19984	5.0	-			
thinly bedded hs: less fissile than upper zones. Several calc. valts x-cut bedding @ 10:30 to core axis.	111		t cale FM 237-240,		0.0 10.0	100						20
	40			236			19985	236.0 5.0			-	
145.0 249.7 Dort green Fire ground interned ite 10-1575 bio 9 10-15 710 plag Latts in	111		5-260; Dikes certain taxe	246	10,0	100	19986	4.0 245.0				13
eki. (570) Also some minor discontinuous also unit's generally lo-30% to eore axis Rase sulfides. Contacts are sharp, X-cut dains, No bleaching @ malsing, but slightly gillized (R-5 cm)	50 TT	az de la companya de la compa	s x. cut by three diles main 1-20, py generally new, grained lost ing than reviewsly noted	/D	D /0.0	100						248
3.0-255.3 Dark green fig. inter med. dike milen to above. These offices x-cut thinly atia med. gray is with minch cale units. 1,259.6 Greenith Brown fig. dike with did.	بليب			56				255.3				 14
to delling, much all eling weeks all eling weekers 26	0 -		F	10.0	10.0	100	19987	4.7			1	

Page 5 no 8

LITHOLOGY, ALTERATION, MISC.		SC. FT. GRAPHIC MINERALIZATION RECOVER				VER	Y ANALYTICAL							
-240-261.3 Med aly Link better 15	1340				Run	Run length	Core	%	Sample	Interval				B
Some gtz uns nearly por allel to relief bedanny. 2-3% py both dissen + as bakn unlts. 265.9-279.3 NGREENISH bonum fine can		1/1	1 1	Py both dissem and as py both dissem and as parallel to bedding. up to 516 73 py along some valts and factores. Some	246	10.0	10,0	150	19988	5.0 265.0				14
intermediate dikes approx 60 to plag 30-35% bjo, partly all to est. (5-10%) and 2-3% dissim by. These dikes have a distinct toliatim parallel to bedding. They x-cut the themly, bedded is along bedding and al,	270	4		of the sulfides along these first is highly colored + maybe arsenopy ((1170)		10.0	10.0	100	19989	5.5 270.5				210
sharp and the is other black near the margins. These dikes are cut by gtzt cale, vns'_0.1-0.5 cm wide (20-30° to core aris)					276.0	,			19950	5.5 276.0				1
279.3-298.7 Domikant!, median skay Himly bedded Ls with interlayered frephilic clays (oil-0.3 cm). Humens of the life	280	+	-	279.3 - 298 Abundant ealerie vring, but generally 0.5 - 10 70 dissem by	E				19991	3.3				
x cut badding (28-20" to cole axis) (3-5/in of cole) and several calcule vn/ts paralle to bedding, similar in size (0.02- 6.2 cm) but less fregnent (1-3/inch of cole)		T			E	10.0	10.0	100	1999 2	5.7		-		285.
	290	-	1.		E				19993	5.0	-			
						10,0	18.0	100	19994	5.0				16
298.7- 306.0 Med gray think, belled 25 X-ent by greenish gray finel graymed	300	+		298 - 311 Considerably					19995	5.0				
Taliation which closely parallels bedding, These Likes are mostly consiste with a 520 plag up to 0.2 cm and 2570 py. These dikes are, x-cut by gtz + cale, with both parallel		1	1 100	assoc w intermediate dives and gt 2 yning. Generally 550 dissem py; Locally 5:70s py both within the		10.0	0.0	100	19996	6.0				303.5
Some of the structure bedding (30" to core and Some of the structure contain mixed ants of glina and tetrahed. The LS shows some bleaching along the contacts with the dikes (1-3" with).	310	1111		ms, Py both Bissen Bud n broken units parallel to broken units parallel to broken . 308-310. Otz-Pich un .					19997	6.0	-			
306-330 Generally med gray thinly bedded 4s, with minor x-butting accept	E	11	19	al. nearly paralles core axis. Ls shows en Riched		10.0 1	0.0 7			312.0	-		-	17
25/30/20 bio partly alt to che (1070); 60 70 plag; -3 70 py and the sphe			'	intect w vn (3-57) 312-330 minor calcite	316.0	-	+		9998	5.0				
	320	11	Neve	Ming; generally parallel to Redering; Little to no gtz ns. 0.5.10.90 py w -3.70 py ord the spill in Atchewich dikes.		10.D /	0.0 10	00						322.3
			+		- 726 D	-				27.0				18
	330	Ti	- 11		-			1	9999	-1.0		-	+	

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II FT	GRAPHIC	MINERALIZATION	RECOVERY		AN	ANALYTICAL						
F1.	LOG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval				Про
330	111	330 - 342 Moderati caleite Vhing, generally Restained to 25 and prostly parallel to bedding. As should 1-200		10.0	10.0	100	19999	5.0 334.0				
		1-370 py both dissen, + as broken Collas.	736.0				20000	5.0				
340		342-372 Medicate calcite		10.0	100	100	20001	5.0				341.5
		bedding, but octains &! ealerte un x-euts bedding (25-30° to seale ayis). Overall 1=376 ou percell	346.0					371.0				
350		dissem with some clots + 1 isolated units.	E	10.0	10.0	/00						19
-			356.0					355.0				
360 -	1		Ē	/0.0	10.0	100	20002	5.0 360.0				- 360.3
			326.0									
370		222-290 Then & Dikes		10.2	10.0	200		370.0		-	-	
		with gf2 + set along margins 2-8 up to 570 py Locally. Generally, 2-355 py both dissen and as clots + minor units.		10.0	10.0	100_	20003	5.0 375.0				20:
370 -			376.0				20004	5.0				379.0
				10.0	/0.0	100	20005	5.0				
	#		386.0	-			20004	5,0				
540	Δ	390-400 Less veining sty Senerally 1-2 70 py, mistly		10.0	10,0	100		390.8				
	1		396.0		_							<u> </u>
	FT. 330 340 350 350 320 320 320 320 320 320 320 32	FT. COG	FT. UGG MINERALIZATION 330 - 342 Moderal calcite 330 - 342 Moderal calcite $130 - 342 Moderal calcite 130 - 342 Moderal calcite 15 - 130 - 100 Moderal calcite 15 - 100 - 100 Moderal calcite 1$	FT. United LOG MINERALIZATION Run 330 330 - 342 Moderal, calcift restricted restricted 10 100 100 100 100 100 10 100 100 100 100 100 10 100 100 100 100 100 10 100 100 100 100 100 10 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <td>FT. CHAPTER MINERALIZATION Run Regin 330 - 542 Mission, calcife y_{11}, g_{12}, g</td> <td>FT. Grantice LOG MINERALIZATION Run <thrun< th=""> <thrun< th=""> Run</thrun<></thrun<></td> <td>FT. Gran The LOG MINERALIZATION Run <th< td=""><td>FT. OHAFTING LOG MINERALIZATION Run <thr< td=""><td>FT. GRAFTING LOG MINERALIZATION nun nun</td><td>FT. GRAPHIC LOG MINERALIZATION Run Run</td><td>FT. UNC MINERALIZATION Run Run Run Run Run Run Run 330 5.42 Mission calcifie 10.0 100 19917 5.0 330 5.42 Mission calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 20000 5.0 340 340 5.64 calcifie calcifie 10.0 100 20001 5.0 340 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 320 5.0 5.0 5.0 5.0 <</td><td>FT. Under Light MINERALIZATION Bun head core % Sample interval 320 330 - 342, Missing calculation 100, 100, 100, 100, 100, 100, 100, 100,</td></thr<></td></th<></td>	FT. CHAPTER MINERALIZATION Run Regin 330 - 542 Mission, calcife y_{11}, g_{12}, g	FT. Grantice LOG MINERALIZATION Run Run <thrun< th=""> <thrun< th=""> Run</thrun<></thrun<>	FT. Gran The LOG MINERALIZATION Run Run <th< td=""><td>FT. OHAFTING LOG MINERALIZATION Run <thr< td=""><td>FT. GRAFTING LOG MINERALIZATION nun nun</td><td>FT. GRAPHIC LOG MINERALIZATION Run Run</td><td>FT. UNC MINERALIZATION Run Run Run Run Run Run Run 330 5.42 Mission calcifie 10.0 100 19917 5.0 330 5.42 Mission calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 20000 5.0 340 340 5.64 calcifie calcifie 10.0 100 20001 5.0 340 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 320 5.0 5.0 5.0 5.0 <</td><td>FT. Under Light MINERALIZATION Bun head core % Sample interval 320 330 - 342, Missing calculation 100, 100, 100, 100, 100, 100, 100, 100,</td></thr<></td></th<>	FT. OHAFTING LOG MINERALIZATION Run Run <thr< td=""><td>FT. GRAFTING LOG MINERALIZATION nun nun</td><td>FT. GRAPHIC LOG MINERALIZATION Run Run</td><td>FT. UNC MINERALIZATION Run Run Run Run Run Run Run 330 5.42 Mission calcifie 10.0 100 19917 5.0 330 5.42 Mission calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 20000 5.0 340 340 5.64 calcifie calcifie 10.0 100 20001 5.0 340 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 320 5.0 5.0 5.0 5.0 <</td><td>FT. Under Light MINERALIZATION Bun head core % Sample interval 320 330 - 342, Missing calculation 100, 100, 100, 100, 100, 100, 100, 100,</td></thr<>	FT. GRAFTING LOG MINERALIZATION nun nun	FT. GRAPHIC LOG MINERALIZATION Run Run	FT. UNC MINERALIZATION Run Run Run Run Run Run Run 330 5.42 Mission calcifie 10.0 100 19917 5.0 330 5.42 Mission calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 19917 5.0 340 5.64 calcifie calcifie 10.0 100 20000 5.0 340 340 5.64 calcifie calcifie 10.0 100 20001 5.0 340 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 340 5.64 calcifie calcifie calcifie 10.0 100 20001 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 350 5.0 5.0 5.0 5.0 5.0 320 5.0 5.0 5.0 5.0 <	FT. Under Light MINERALIZATION Bun head core % Sample interval 320 330 - 342, Missing calculation 100, 100, 100, 100, 100, 100, 100, 100,

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LITHOLOGY, ALTERATION, MISC.		FT	FT. GRAPHIC MINEBALIZATION			RECOVERY				ANALYTICAL							
L		400	LOG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval				Ι		Box	
muli	thinly bedded phyllitic is with several greenish gray fine grained intermediate dikes x-kulting the is very nearly parallel to bedding (controls lary <10°) These dikes are so 60% m	400		400 - 470 Generally 0.5-1.0% dissem py w occassional valts where noted. Minor calc. Yrs generally parallel to bedding with some thin units (solowwide)	406.2	10.0	10.0	100	20007	400.0							
	a foliation which proglicis bidging The margins of these dikes generally show skarp contacts, and commonly bleach the 2s to a 2t, greenish Gray color for 3-4 inches from the contact.	410	1	X-cutting bedding @ 20-30 to core axis.		10.0	10.0	100			-					22=	
E			#		416.0											=	
E		420	====		E					418.0						417.2	
Ē			1		E	10.0	10.0	100	20008	5.0						=	
Ē					- 											23:	
E		4 <u>30</u>				10.0	10.0	100								-	
Ē		=			436.0					435.5							
=		440			=			-	20009	5.0							
=					=	10.0	10.0	100		440.5							
= 4	46.5.451 Small shear zone, minor			446.5-451 Small shear	446.0		-	-		446.2						24-	
	oxn w gtz + calc un fill and assoc py both dissem + as units.	4 <u>50</u> -	Δ	with 2-370 py both dissent and as valts (colemwide) possibly minor pyh.					20010	5.0							
E				valts.		10,0	10.0			431.2						-	
-		11	++		456.0	-	+						-			455.2	
-		460 -			-	10.0	10.0	100	•				-			<u>_:</u>	
_		1	***		464.0					465.0						25:	
-		170						ŀ	20011	5.0			1			÷	

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LITHOLOGY ALTERATION MISC	ET	GR	APHIC		F	ECO	VER	Y		AN	ALY	TICA	L		DOX					
420 = 50/	1		LOG	MINERALIZATION	Run	Run length	Core	%	Sample	Interval						BOX				
470 - 506 Several DK speenish gray intermed. Fine-med graines dikes X - 2007 med gray Thinly beoded is along bedding or very nearly so. Dikes contain, 50-55% plag; y alistem py. The dikes show a foliation which milmics bedding in the Ls. The is phyllicic and contains some calc bads or vis which parallel beds or 10.1-p. 5 cm thick.) These is are commonly bleached rear the contacts with the dikes and contain, slightly more sulfides. In these zone (3-4 zone w ~170 py + possible Pyh.).	470	11 11		470-506 Overall menor cale veining generally parallel to bess with a few units x-cution bedding @ 20-30" to zore		10,0	10.J	100								473,3				
	480	11		dissem py, is up to 170 along margins 165 dines (occurring as spotty units).		10,0	10-0	100		480.0										
	1111	1.1			486.0				20012	5,0 485,0						26-				
	4 <u>90</u>					10.0	10.0	100								- 491.6- -				
	500	11. 1	*		496.0	10.0	10.0	100		500.0						27-				
	Int	506.0	Feet	502-503 Minor gtz + calc veining with 1:22 py and possibly some spl. («170)	506.0				20013	3.3 503.3						501-0				
			of Hole																	
		1111																		
	111																			
	1111																			
	=					_			_				1	5	-	Ē				