

LOG NO:	SEP 20 1993	RD.
ACTION:		
FILE NO:		

DIAMOND DRILL REPORT  
Jackhammer Claims Group  
Slocan Mining Division

NTS 82-F/10-W  
LAT 49° - 41' North  
LONG 116° - 56' West

FILMED

Owner JORDAN A HUNTER  
Box 149, Genelle, BC  
Client No 112 559

Operator LEONARD N OGILVIE  
Box 47, Balfour, BC  
Client No 120 105

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,996

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## HISTORY

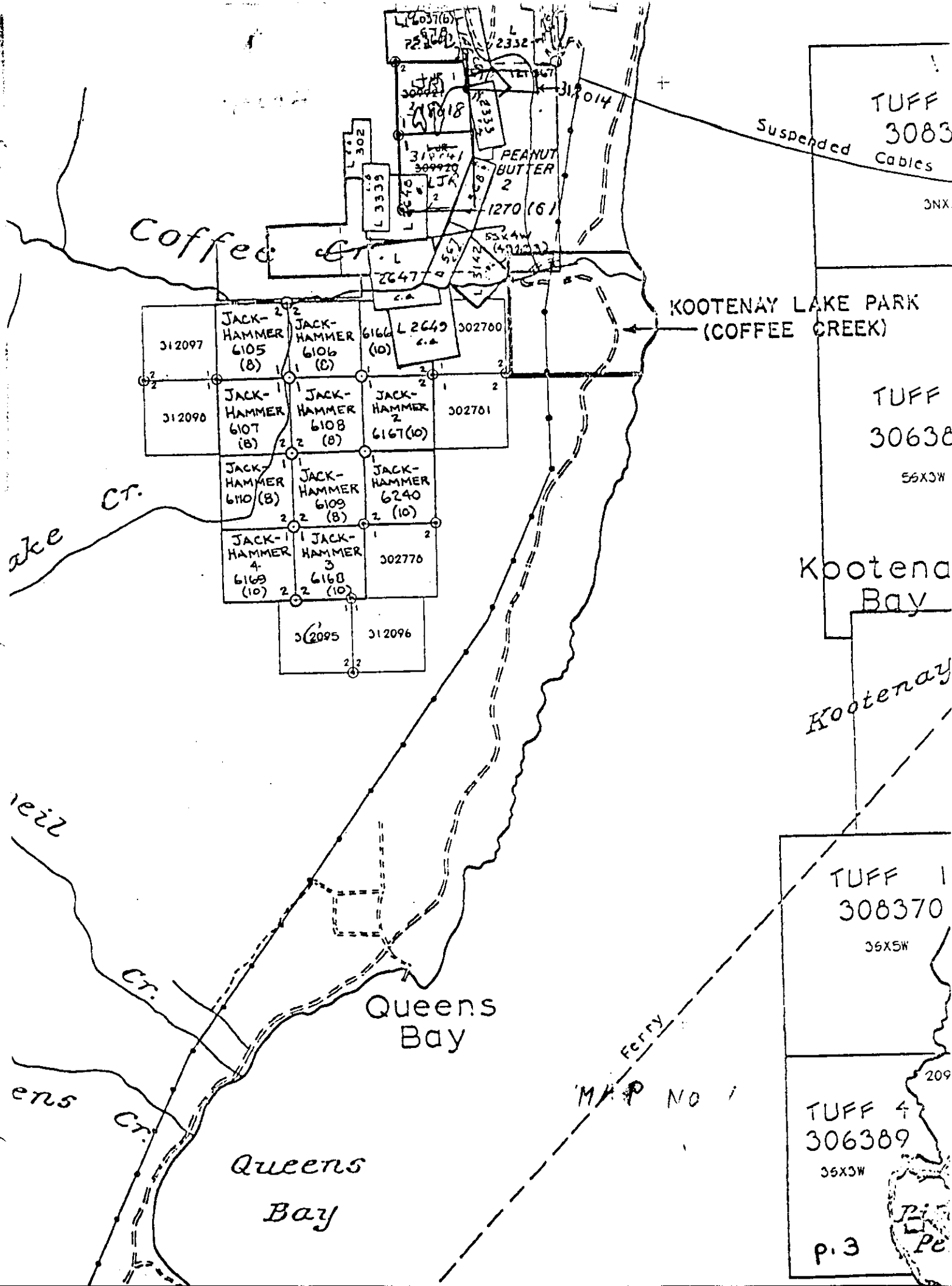
Jackhammer claims were staked starting August 24, 1989 and added to over the next three years as more sulfide zones were uncovered. The main sulfide zone is in a silicified and brecciated mineralized zone, 134 feet wide at the surface where it is cross trenched, and standing between 65° and 85° dipping southwest and striking between 40° and 45° west, and carries ZN, PB, AG sulfides at or near the foot wall (north-east side of the zone).

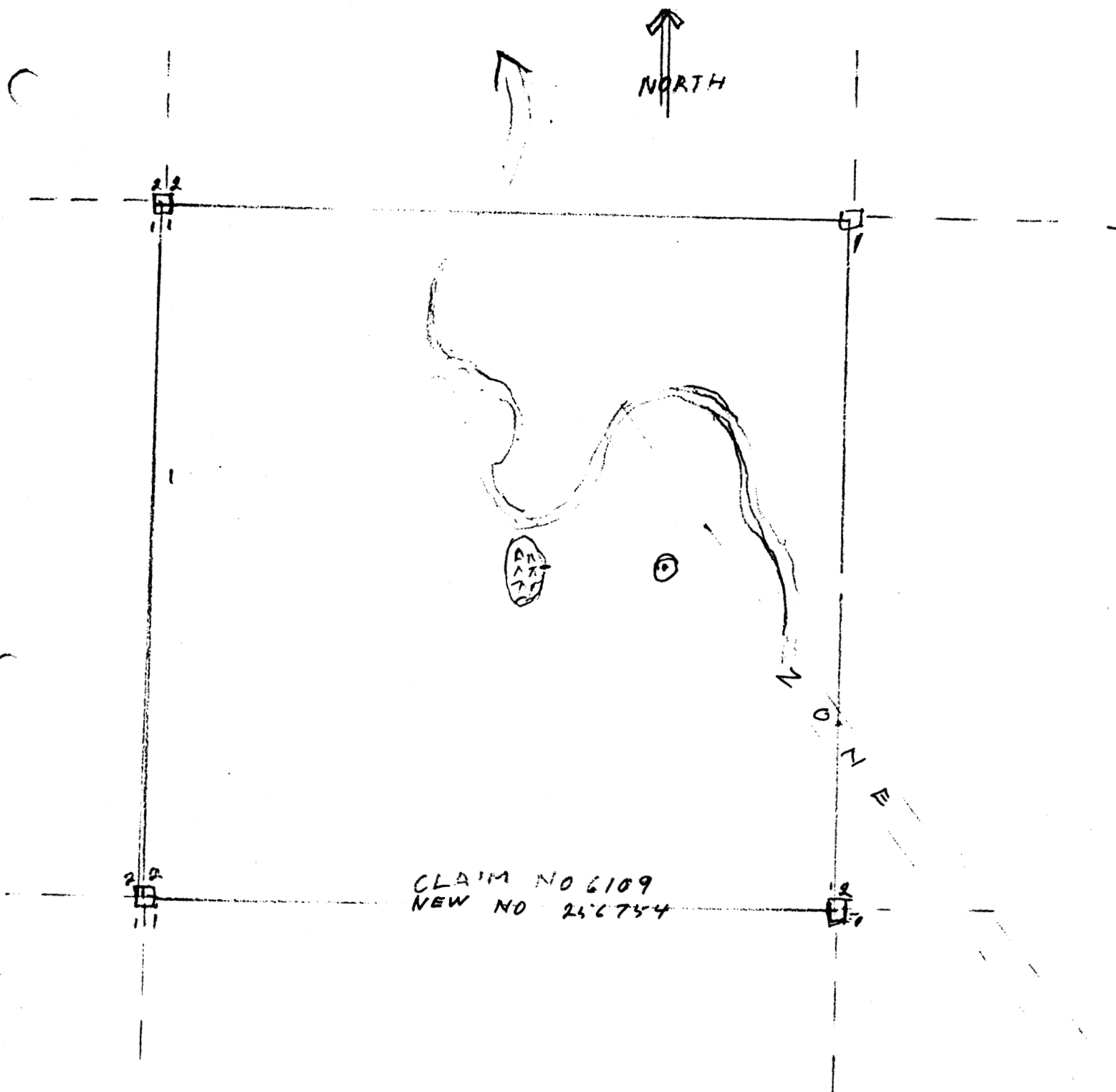
In the spring of 1992 it was decided to diamond drill perpendicular to the zone at 50° to better understand the ore body.

## LOCATION

The Jackhammer claims are located on the west side of Kootenay Lake. Starting at the Coffee Creek and Hi-way 31 bridge, proceed up the Coffee Creek logging road to the second bridge. After you cross this bridge the road forks. Take the left hand road to the edge of the clear cut logging, where the road forks again. Take the right hand fork to where the road turns south where it comes near Leek Creek. After making the turn, stop.

The initial post for claims No 6107 and 6108 is 50 meters to the left on a small hill and is visible from the road. Proceed 500 meters due south to the initial post for claims No 6109 and 6110, then proceed south again 255.7 meters, then due east 389.8 meters to the drill hole collar (see map No 2).






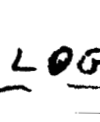
CLAIM NO 6109  
NEW NO 256754

DIMOND DRILL LOCATION  
SOUTH FROM INITIAL  
POST OF 6109 255.7 M  
THEN DUE EAST 389.8 M  
TO ROCK CARON

MAP NO 2  
SCALE 1" = 100 M

 WATER MOST OF YEAR

 DIMOND DRILL HOLE

 LOGGING ROAD  
ACCESS FROM COSSE

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## SUMMARY OF WORK

We hired Vern Emary Drilling to drill the hole. Drill size was 28.55 m.m., one hole, 185 feet deep plus we supplied two helpers on the rig.

As the formation stands at 60° to 65° at the surface, we expected to reach the foot wall at 160° to 175 feet which his small drill could drill. We drilled 185 feet at which depth he could drill no further, and we still had not reached the foot wall or the foot wall sulfides. Either the zone is steeper than at the surface or the drill hole deflected.

The drilling was done from October 24 to November 1, 1992, both days inclusive. The drill core is stored at Leonard Ogilvie's residence, No 7787 on hiway 3A, Balfour, BC. We have since followed the zone to the southeast to the cliff area where sulfides are visible just below the surface.

## COMMENTS

The diamond drill hole is in a colder area than the sulfide zone we have uncovered to the southeast of the drill hole indicating exploration should continue to the southeast, which we intend to work at.

Report prepared by Leonard Ogilvie, prospector, six years experience with Jordan Hunter who studied under George Addie, geologist.



DIAMOND DRILL LOG

Hole No. JH92-01

PROPERTY: Jackhammer  
SECTION:  
LOCATION: Ainsworth Camp  
NORTHING:  
EASTING:  
AZIMUTH:  
LOGGER: J. Murray, P. Geo.  
DATE: Jan. 15/18, 1993.

ELEVATION:  
DEPTH: 56.39M  
DIP: - 50°  
CORE SIZE: 28.55mm  
PURPOSE: Test vein  
depth continuity.

DIP TESTS:

REMARKS: Rocks encountered appear to match Fyle's Unit 3f: "grey-brown micaceous quartzites, fine-grained mica schists, and minor limestones." No significant mineralization was encountered: See attached Assay Sheet. Some elevated manganese and strontium values were noted, as was an apparent increase in barium content, and decrease in calcium content, with depth of hole. The highest copper value returned was from the deepest sample.

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metres				metres
<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE FROM</u>	<u>TO</u>
0.0	0.75	Schist, (?), limey, broken core chunky. Dark grey-black, very fine-grained, somewhat lineated. Nms thin carb streaks, Occ. rusty, rare pyrite. Rare vug. Weak to mod acid reaction. [not a very good schist.]		
0.75	2.00	Lost Core		
2.00	4.10	Schist, (?), Schistose with bands of light & dark, very fine-grained material. Foliation @ 75°. Poss. tiny blebs of quartz - unit is very soft throughout, esp. the dark segments. Lighter bands somewhat silicified. Abundant rusty zones. No visible sulphides. Nms thin carb stringers. Lighter coloured material effervesces on broken surface. Minor pyrite. [limestone?] Unit 2.		

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE FROM</u>	<u>TO</u>
4.1	5.0	Limestone - light grey-white, somewhat altered. V. soft, quiet effervescence with acid. Rusty zones. Stringers of quartz running down core.		
5.0	5.2	Schist ? - broken, rusty, altered Unit 2.		
5.2	5.35	Limestone - somewhat lineated, Strong 0.3cm rusty zone on trailing edge; leading edge smashed.		
5.35	11.80	Limy ?Hornblende? Schist - Dark, grey-black, v. fg, occ. mafic blebs. In places somewhat lineated approx. @ 80°. Thin carb stringers mainly at steep angles to core; occ. running down core. 6.4-6.6 More heavily lineated, broken core, structure @ 90°. Carbonatized, rusty, seams. 6.75 Carb seams & fot'n @ 55° to core. 7.00 Somewhat lighter in colour, thin carb seams @ 65° offset by carb seam @ 10°. (Offset is 0.5 cm.) 7.62-7.8 Carb stringers offset by carb filled micro-fractures down core. Rusty seams. Prob. minor structure @ 7.8m 9.9-10.0 Bleached, rusted zone: prob. fracture.		
11.8	12.40	as above: bleached, altered, carbonatized; approaching contact.		

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE FROM</u>	<u>TO</u>
12.48	15.20	Limey schist? Very like Unit 2. "Vein Material". Appears to be white bullish stringers, veinlets & blebs of quartz in a quartzite matrix, or host. Qte is light greenish-grey, v. fg., hard. Some qtz veinlets/blebs have (trailing edge side) a thin seam of dark black mafic mineral (not biotite). 2-3% diss. pyrite. Qtz vein material is occ. brecciated. Nmrs rusty fractures at steep angles, & along core. 13.7-15.18 highly broken & gound core. Some leaching.		
15.2	17.3	Quartzite? - somewhat as above; more rusted, qtz blebs & stringers are smaller, more "smoky" & bxted. [Core is quite "chunky" and ground in places.]		
17.3	17.68	Fault Zone - @ 47°. Brown, rusty approach, good chloritized slip surface, followed by .3m broken core and mud.		
17.68	18.3	?Vein? - Dark grey smoky quartz blebs & patches in quartzitic matrix. rare diss. pyrite.		
18.3	19.8	Limey Quartzite? - Light grey, (greenish cast), occ. rusted, v. fg., progressively more altered toward toe. Blebs & patches of bullish quartz; 1-2% finely diss. pyrite. 19.03-19.5 dark grey, v. fg. limestone matrix. Light coloured, angular to sub-rounded patches & phenocrysts. Porphyritic texture. Blebs & patches of quartz. Sulphides present, v. v. fg. Soft.		

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE</u>	<u>FROM</u>	<u>TO</u>
19.8	21.34	Altered ?Quartzite? - Approx. 40-50% white bullish qtz matrix with angular fragments of some v. soft light greenish-grey mineral. Carbonatized. Some whitish clayey mud.			
21.34	26.15	Quartzite - thin bedded, dark med. grey, v. fg. Finely diss. pyrite. Pronounced bedding @ 55°. Occ. stringers of bullish white quartz, (occ. vuggy). 25.8 - 25.9 leached boxwork, rusted, vuggy, with qtz xtal lined cavity.			
26.15	31.30	Highly Altered Material - prob. originally qte. Now has stressed appearance, bxted, rusted, leached, & carbonatized. 30.49-31.3 poss. sphalerite; some lost core.	80501	26.15	30.49
			80502	30.49	31.30
31.30	32.84	Quartzite - Begins quite dark, colour lightens toward toe. Nms stringers bull qtz in first .3m. Fractured, vuggy. Some broken & ground core. Banded appearance. 32.3-32.4 reddish tinge, (?sphalerite?), minor pyrite. 32.76 some greenish mineral - ?fuchsite?			
32.84	35.75	Highly Altered Material - reddish, light brown cast. (Orig. Qte?) Blebs, patches & stringers of white qtz. Carbonatized, rusted.	80504	35.06	35.75

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE</u>	<u>FROM</u>	<u>TO</u>
35.75	39.60	Highly Altered Material - as above, but distinctly darker smoky grey matrix, (qte). Brecciated appearance. Some segments quite soft, vuggy, carbonatized. Blebs, stringers of quartz. Occ. diss. pyrite, (& rare stringers?)			
	35.86-36.2	6-8% pyrite seams in qtz blebs & patches.	80503	35.86	36.20
39.60	41.16	Broken, Ground & Lost Core - V. chunky. Pieces are light and dark qte., quite rusted. Unremarkable.			
41.16	42.10	?Dike? - Felsic appearance, bxted, broken & recemented, highly silicified, minor pyrite, (?manganese?) Fine- grained to v. fg., porphyritic appearance, light coloured, rusty hue. Patches and blebs of quartz. Minor galena xtals. Somewhat leached, minor vugs. Limey. Light buff colour, with dark angular - sub-rounded fragment.	80505	41.16	42.10
42.10	42.68	Highly Altered Material - fg, highly rusted throughout. Orig form unclear.	80506	41.16	42.10
42.68	44.21	Quartzite - v. fg., generally dark grey-black, well banded, more rusty toward collar, foliation @ 50-60°. Thin stringers of qtz, minor (1%) pyrite finely disseminated. 43.18 healed fracture @ 55°. 43.95 healed, recemented frctr filled with qtz & carb. Rusted, vuggy. Frctr is @ 40°, foliation is @ 65°.			

<u>FROM</u>	<u>TO</u>	<u>DESCRIPTION</u>	<u>SAMPLE</u>	<u>FROM</u>	<u>TO</u>
44.21	48.15	Rusty Quartzite? - v. fg., well banded @ 60°, limey surfaces on bedding planes, (acid reactive), nmrs stringers, blebs & patches of qtz. 46.4 5cm mud seam 46.8 carb fault @ 45°			
48.15	49.90	Quartzite - well banded, dark med-grey, unremarkable. Foliation @ 50°, nmrs thin stringers & patches bullish white qtz. Segment becomes less well banded, more massive qtz toward toe.			
49.90	56.40	Quartzite - variously altered, moderately well banded, gen. med. grey, (orange hue). Minor diss. pyrite. Nmrs blebs, patches, and stringers of qtz. Fresh surfaces acid reactive: Quite limey. 49.90-49.95 bullish white qtz vein. 50.50-50.90 more siliceous, up to 2% pyrite, (poss. sphalerite?) 50.90 strong graphitic slip @ 55°, with white qtz. 51.30 2cm white qtz stringer @ 60°. 52.08 healed fracture @ 35°. 53.4 minor healed fracture @ 25°; (poss. Sphalerite?) 53.80-54.20 Highly rusted, alt'd leached. 54.48-55.10 siliceous, micaceous quartzite; mud seam @ 54.80 5cm white clay; blebs & patches white bullish qtz. 55.75 on Qte here is lighter colour, more massive.	80507	50.30	51.10
			80508	54.55	55.75
56.40		FOOT OF HOLE.			

ECO-TECH LABORATORIES LTD.  
 10041 EAST TRANS CANADA HWY.  
 KAMLOOPS, B.C. V2C 2J3  
 PHONE - 604-573-5700  
 FAX - 604-573-4557

JOHN R.S. MURRY ETK 93-15  
 519 WEST INNES STREET  
 NELSON, B.C.  
 V1L 3J2

JANUARY 26, 1993

VALUES IN PPM UNLESS OTHERWISE REPORTED

8 CORE SAMPLES RECEIVED JANUARY 25, 1993

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
1	- 80501	<5	.4	.22	20	2	85	<5	11.07	<1	7	60	64	2.35	.09	<10	.50	787	4	<.01	29	530	16	5	<20	77	<.01	<10	11	<10	10	104
2	- 80502	<5	.2	.15	15	2	80	<5	12.03	1	4	60	40	2.36	.07	<10	2.80	860	2	<.01	15	310	70	5	<20	360	<.01	<10	6	<10	8	319
3	- 80503	<5	.8	.21	30	2	80	<5	11.67	<1	11	54	67	2.78	.09	<10	4.56	1240	3	<.01	52	350	122	5	<20	1371	<.01	<10	7	<10	9	22
4	- 80504	<5	<.2	.30	20	2	80	<5	8.34	<1	5	78	28	1.95	.14	<10	2.59	792	2	<.01	18	490	10	5	<20	886	<.01	<10	9	<10	10	18
5	- 80505	<5	.4	.24	10	2	55	<5	14.42	<1	3	23	25	2.03	.06	<10	5.30	1022	1	<.01	10	120	136	5	<20	650	<.01	<10	6	<10	5	33
6	- 80506	<5	.2	.09	15	2	110	<5	>15	<1	2	20	3	2.43	.02	<10	2.70	1567	1	<.01	8	470	2	5	<20	276	<.01	<10	7	<10	10	47
7	- 80507	<5	<.2	.24	5	<2	125	<5	8.13	<1	3	143	7	1.02	.12	<10	1.93	471	7	<.01	9	270	16	<5	<20	237	<.01	<10	4	<10	9	56
8	- 80508	<5	.6	.24	10	2	140	<5	8.54	<1	9	81	153	1.91	.11	<10	2.38	1565	4	<.01	33	330	16	5	<20	488	<.01	<10	8	<10	8	67

QC DATA

REPEAT #:

3- 80503 .8 .20 30 2 80 <5 11.38 <1 10 53 63 2.73 .09 <10 4.37 1211 3 <.01 51 350 126 5 <20 1307 <.01 <10 6 <10 9 21

STANDARD 1991 - 1.2 1.58 85 4 110 <5 1.58 <1 17 56 73 3.33 .30 <10 .86 627 <1 .01 21 570 14 5 <20 53 .09 <10 65 <10 11 60

NOTE: < = LESS THAN  
 > = GREATER THAN

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*Bohmner*  
 ECO-TECH LABORATORIES LTD.  
 FRANK J. PEZZOTTI, A.Sc.T.  
 B.C. Certified Assayer

SC93/KAMMISC#1

COST STATEMENT

October 24 to November 1, 1992	Diamond Drill & Operator	2,500.00
October 24 to November 1, 1992	Jordan Hunter Helper 47 hrs at 15.00/hr	705.00
October 24 to November 1, 1992	Leonard Ogilvie Supplying Water & General Help On Drill 47 hrs at 15.00/hr	705.00
October 24 to November 1, 1992	1/2 ton Truck 6 days at 25.00/day	150.00
July 20, 21, 22, 1993	Exploration Extended <del>On</del> Known Strike Of Mineralized Zone To Cliff Area	
	Jordan Hunter 19 hrs at 15.00/hr	285.00
	Leonard Ogilvie 24 hrs at 15.00/hr	360.00
		<hr/>
		\$4,705.00



# STATEMENT

**CLIENT:**

Ogilvie & Sons Construction,  
Balfour, B.C.,  
VOG 1C0.

**IN ACCOUNT WITH:**

J. Murray, P. Geo.,  
519 W. Innes,  
Nelson, B.C.,  
V1L 3J2.

**ATTENTION:** Mr. Len Ogilvie

**DATE:** March 05, 1993.

**TERMS:** Payable upon receipt; interest at 17% compounded monthly after 30 days.

DATE	DESCRIPTION	CHARGES	PAYMENT	BALANCE
1993				
Jan 15	Core logging	\$ 75.00		\$ 75.00
Jan 18	Core logging	\$ 75.00		\$ 150.00
Jan 19	Payment Rec'd		\$250.00	(\$ 100.00)
EXPENSES				
Jan 15	Mileage: 66.7 km @ 35c/km	\$ 23.34		\$ 23.34
Jan 18	66.7 km @ 35c/km	\$ 23.34		\$ 46.68
Jan 22	Greyhound to lab	\$ 10.46		\$ 57.14
Jan 29	Assaying	\$ 136.96		\$ 194.10
	Typing (6 pgs @ \$10/pg)	\$ 60.00		\$ 254.10
TOTAL SERVICE PLUS EXPENSE:		\$ 154.10		

**BALANCE DUE:** \$ 154.10 *paid*

