ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 94.11.29

ASSESSMENT REPORT 23320

MINING DIVISION: Omineca

PROPERTY:	Rap				
LOCATION:	LAT	56 06 00	LONG	125 02 00	
	UTM	10	6218858	373518	
	NTS	094C03E			
CLAIM(S):	Rap 1-2				
OPERATOR(S):	Cominco				
AUTHOR(S):	Rhodes, D.				
REPORT YEAR:	1993, 14 Pages				
COMMODITIES SEARCHED FOR:	Lead,Zinc				
KEYWORDS:	Devonian,Earn Group,Mudstones,Sandstones,Cherts,Barite,Tuffs				

WORK DONE: Geological,Geochemical

GEOL 700.0 ha
Map(s) - 1; Scale(s) - 1:5000

ROCK 4 sample(s) ;ME

SOIL 53 sample(s) ;ME

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 94-C-3

1993 ASSESSMENT REPORT

RAP 1 and 2

Record No's 308217 and 308218

Osilinka River

Omineca Mining Division

LATITUDE: 56°06'

LONGITUDE: 125°°02'

CLAIMS OWNED BY STRATABOUND MINERALS CORP.

OPERATOR: COMINCO LTD.

FEBRUARY, 1994

D. RHODES
SENIOR GEOLOGIST

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PLATES (within pouch)

COMINCO LTD.

EXPLORATION
NTS. 94-C-3

WESTERN DISTRICT
FEBRUARY, 1994

ASSESSMENT REPORT - 1993
RAP PROPERTY - CLAIMS RAP 1 & 2

1. SUMMARY

Between July 25 and July 29, 1993, geological mapping and sampling of soil geochemical contour traverses was undertaken on the Rap 1 and 2 claims. The results of this mapping along with the soil geochemical data are presented on Plate 93-1

The Rap claims are underlain entirely by Lower to Upper Devonian Earn (Big Creek) Gp. strata. Contour soil and some silt geochemistry indicate weakly anomalous lead,zinc, silver geochemistry in the northeast corner of the group. Bedded barite mineralization with only slightly elevated copper,zinc, silver values is associated with rhyolitic cherty tuffs in the southwest portion of the group.

2. LOCATION AND ACCESS

The Rap claims adjoin to the west the larger Par Property just south of the Osilinka River and one to two kilometres west of Wasi Ck. Work on the property was undertaken out of Cominco's Par property base camp. The Rap property is located 230 kilometres by road northwest of Windy Point on the Prince George- Mackenzie Highway 97 (See Figure 1 and 2). Access is along the paved road to Windy Point, then via the Finlay Forest Road north to the Omineca Logging Camp, then from there west along the Osilinka Mainline to Km.21. At that point the Wasi Main Line branches off and follows the southern shores of the Osilinka river to the base camp (Par property), a distance of 24 km. Access to the Rap claims was by a newly constructed logging road branching west from the Wasi Main line at about kilometre 17. (See Plate 93-1). The southern part of this road was not navigable by 4x4 vehicle. Access to the higher parts of the claim group was more easily accomplished by use of the helicopter out of the Par camp.

3. TENURE

The Rap property comprises 2 claims - Rap 1 and 2 consisting of 20 and 8 units respectively. This report concerns the work undertaken on the claims between July 23 and 29,1993. The work was done on the claims by Cominco Ltd. under option from Stratabound Minerals Ltd.. Expenditures in 1993 totalled $5985.45. Details are given in Appendix 1.

Claim Name	Tenure No.	Units	Due Date
Rap 1	308217	20	March 20/96
Rap 2	308218	8	March 20/96

FIGURE 1: LOCATION MAP OF RAP CLAIMS

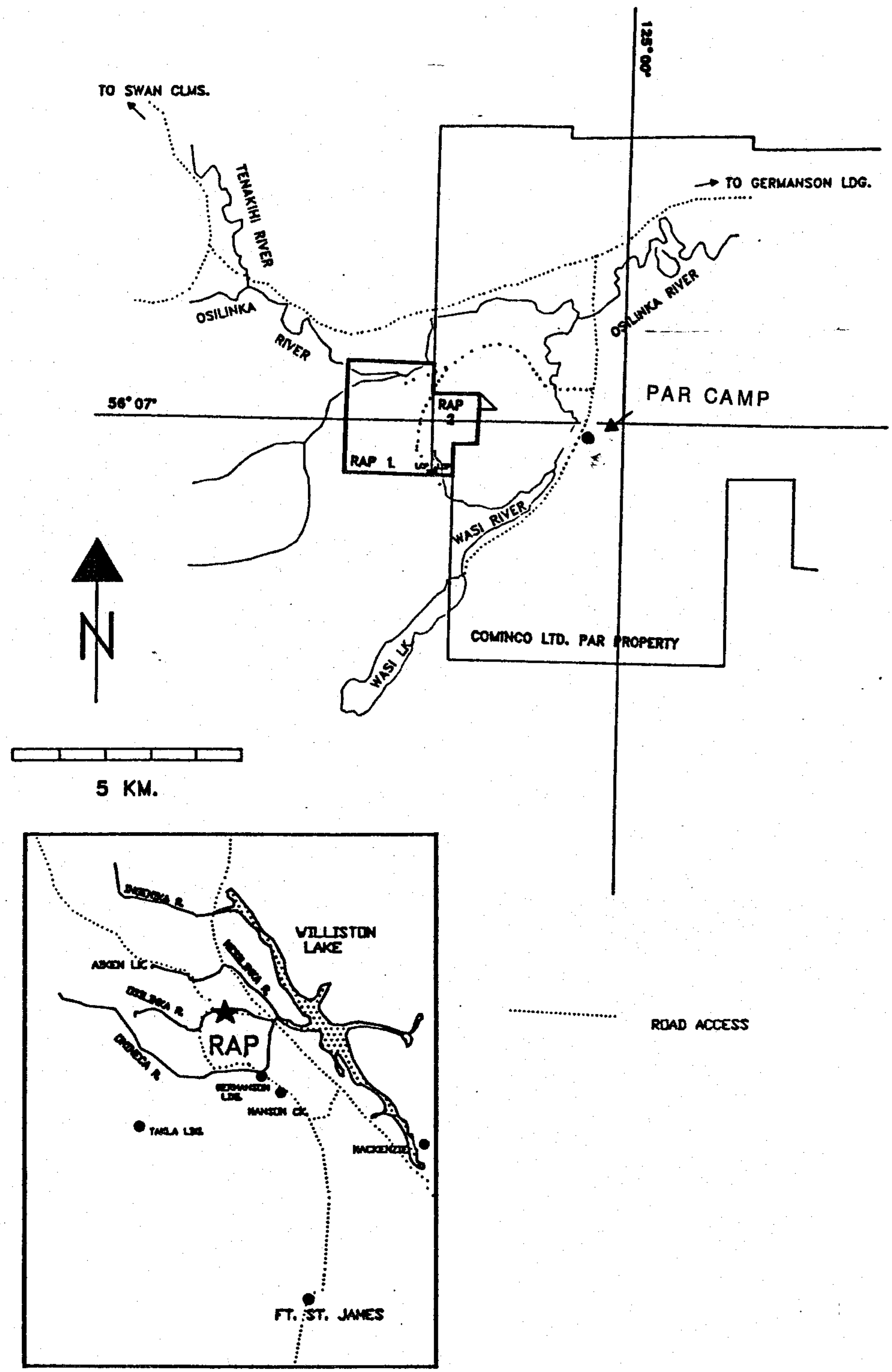
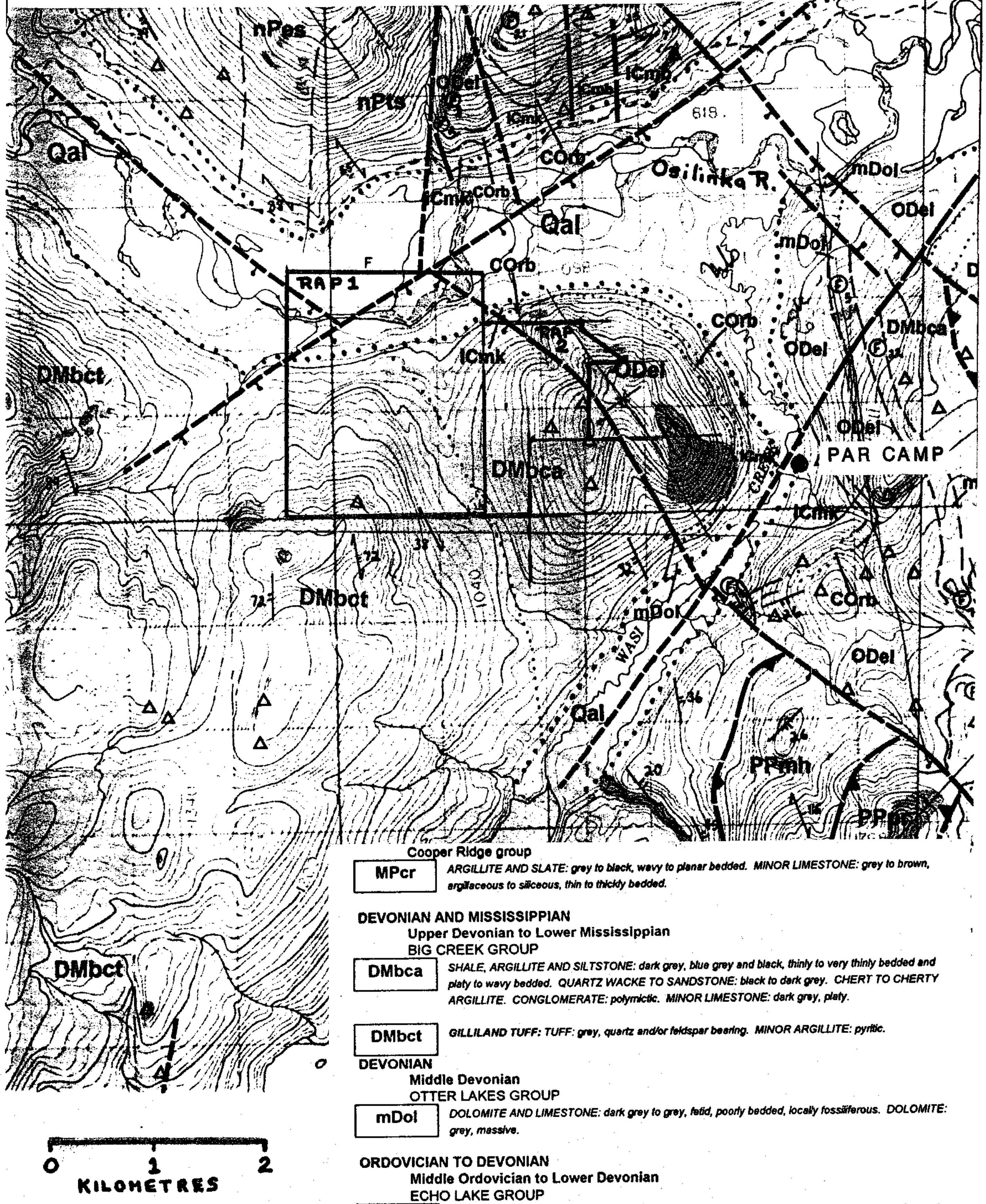


FIGURE 2; LOCATION MAP OF RAP CLAIMS ON GEOLOGY MAP (FERRI 1993B)



Cooper Ridge group

MPcr	*ARGILLITE AND SLATE: grey to black, wavy to planar bedded. MINOR LIMESTONE: grey to brown, argillaceous to siliceous, thin to thickly bedded.*

DEVONIAN AND MISSISSIPPIAN

Upper Devonian to Lower Mississippian

BIG CREEK GROUP

DMbca	*SHALE, ARGILLITE AND SILTSTONE: dark grey, blue grey and black, thinly to very thinly bedded and platy to wavy bedded. QUARTZ WACKE TO SANDSTONE: black to dark grey. CHERT TO CHERTY ARGILLITE. CONGLOMERATE: polymictic. MINOR LIMESTONE: dark grey, platy.*
DMbct	*GILLILAND TUFF: TUFF: grey, quartz and/or feldspar bearing. MINOR ARGILLITE: pyritic.*

DEVONIAN

Middle Devonian

OTTER LAKES GROUP

mDol	*DOLOMITE AND LIMESTONE: dark grey to grey, fetid, poorly bedded, locally fossiliferous. DOLOMITE: grey, massive.*

ORDOVICIAN TO DEVONIAN

Middle Ordovician to Lower Devonian

ECHO LAKE GROUP

ODel	*DOLOMITE AND LIMESTONE: pale to medium grey, thinly bedded to massive, medium crystalline and sugary, may be bioclastic, oolitic and contain carbonate breccia horizons, locally silicified and almost cherty, may exhibit algal structures. FENESTRAL DOLOMITE: extensive lower in the unit. SANDY DOLOMITE: locally fossiliferous, found near the top of the unit. MINOR SHALE.*

CAMBRIAN AND ORDOVICIAN

RAZOR BACK GROUP

COrb	*UPPER PART. CALCAREOUS ARGILLITE, ARGILLACEOUS AND DOLOMITIC LIMESTONE: both dark grey, thinly bedded.* *LOWER PART. ARGILLITE, SHALE: dark grey to grey, green or silvery, thinly bedded. MAY CONTAIN SECTIONS OF SERICITIC PHYLLITE OR SCHIST: white to greenish.*

4. HISTORY

The only work known from the area is some contour soil geochemistry conducted in 1992 and limited mapping by Ferri et al.(1993).

5. 1993 WORK

The 1993 work consisted of two man days of geological mapping conducted by geologists M.G.Westcott, and D.Rhodes and five days of contour soil sampling by temporary assistants I.A. Neill, M. Hamilton and N. A. Kern. This work was undertaken by means of truck and helicopter out of the Par base camp between July 23 and July 29.

6. GEOLOGY

The general geology of the Rap area consists of sedimentary and much lesser volcanic rocks ranging in age from upper Proterozoic through to upper Devonian that lie within the Cassiar Terrane a portion of the ancestral North American continental margin displaced by movement on the Tintina Fault. Figure 2 shows the geology of the Rap area taken from Ferri (1993 b) with the outline of the claims superimposed.

In the geological mapping the older names for much of the stratigraphy have been used with the more recent names of Ferri (1992,1993)presented in brackets. The geology on the claims consists entirely of Lower to Upper Devonian Earn (Big Creek) Gp. strata. The lower stratigraphy of this unit exposed on the property consists of very siliceous, carbonaceous mudstones with minor grits and sandstones. Some crinoidal, bituminous limestones appear to be interbedded with these siliceous mudstones. Succeeding these rocks is a thick succession of volcanics that have been called the Gilliland Tuff by Ferri (1993) and appear to be dominantly dacitic to rhyolitic tuffs or perhaps tuffaceous cherts on the Rap claims. Samples from one large outcrop area of these rocks (DR 93-62,63,64 and 65) were analyzed for their whole rock composition. These analyses are presented in Appendix 2. Heterolithic debris flows occur at the north-east corner of the Rap 2 claim. These consist of Silurian Sandpile (Echo Lk.) dolomite clasts as well as turbidite clasts - probably Devonian McDame (Otter Lk.) Gp. in a carbonaceous and argillaceous limestone matrix with abundant crinoidal debris.

No mineralization was detected on the claims barring barite associated with cherts or fine rhyolitic tuffs on the southern margin of Rap 1. Lithologic samples from this occurrence (DR-93-64 and 65) returned values of 22.4 and 7.5 % barium but with very low to background base metal values. ICP analyses of the metal content of samples of these rhyolites or cherts are presented in Appendix 2.

7. GEOCHEMISTRY

METHOD

The soil sampling lines were run along preselected elevations and samples were taken at 100 metre intervals along the lines. At each sample location a small pit was dug with a shovel and a 300 gram sample of the B soil horizon was retrieved and placed in a kraft paper bag. The bag was annotated with the grid coordinates and notes were taken of the colour, nature and surroundings of the sample and sample site. These samples were shipped to Cominco's Exploration and Research Laboratory at 1482 E. Pender St. in Vancouver. There the samples were dried, sieved and a 1 gram portion of the -80 mesh fraction was extracted. This sample was subsequently digested by reverse aqua regia and presented to the ICP. machine for analysis of a 27 element suite.

RESULTS

The analyses are presented in Appendix 2 while the values for copper, lead,zinc and silver are listed beside their respective sample sites on Plate 93-1. The contour soil geochemistry shows weakly anomalous lead (66-168 ppm), silver (7.3ppm) and zinc (303 -1082 ppm.) in the northwest corner of Rap 2 while two silt samples from the same area show one weakly anomalous lead (93ppm), one weakly anomalous zinc value (584 ppm) and one very anomalous zinc value (6875 ppm.) The soil geochemistry elsewhere returned low values.

8. CONCLUSIONS

It is concluded that the claims are underlain entirely by Devonian strata. The drainage silt and contour soil geochemical samples reported on here suggest the possibility of zinc with probably subordinate lead in bedrock uphill from the sample sites.

REFERENCES

Ferri,F. et al 1992: Geology of the Uslika Lake Area: B.C. Ministry of Energy, Mines and Petroleum Resources,Open File 1992-11

Ferri, F.et al, 1993a: Geology of the Aiken Lake and Osilinka River Areas, Northern Quesnel Trough (94C/2,3,5,6 &12); in Geological Fieldwork 1992, Grant,B. and Newell, J.M., Editors, B.C. ministry of Energy, Mines and Petroleum Resources, Paper 1993-1,pages 109 -134.

Ferri, F. et al 1993b: Preliminary Geology of the Aiken Lake and Osilinka River Areas, British Columbia (NTS 94 C/2,3,5,6 &12); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1993-2.

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Release by: John Hamilton

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DR:dr

Distribution:
JMH→WD Files
Government (2)
Stratabound Mineral Corp (1)

APPENDIX I

STATEMENT OF
TOTAL EXPENDITURES RAP 1 and 2

PERIOD JULY 23 - JULY 29

GEOLOGY				
FIELD				
Staff Costs:	MGW 1 day	$300.00		
	DR 1 day	460.00		
			$760.00	
REPORT WRITING & DOCUMENTATION				
Staff Costs:	MGW 0.5 day	150.00		
	DR. 1.0 day	460.00		
			610.00	
				$1370.00
GEOCHEMISTRY				
Salaries:	NK 1 day	163.15		
	MH 2 day	326.30		
	IAN 2 day	430.00		
			$919.45	
Analyses:	53 soil samples @ $8/ea		424.00	
	4 rock samples @ $36.50/ea		146.00	
Supplies:			100.00	
				1589.45
HELICOPTER: 2.0 hours @ $700/hr				1400.00
BOARD/ACCOMODATION: 7 days @ 118.00				826.00
APPORTIONED EXPENSES				500.00
DRAFTING				300.00
TOTAL				**5,985.45**

APPENDIX II

GEOCHEMICAL ANALYSES

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
9330458	222156*24 1B231	5	9	44	<.4	3	181	<1	1	6	.88	<2	5	<5	<5	23	<2	<2	16	<2	6	28	.11	<.01	.59	.21	.01	.06
9330459	222157* 2 2G231	22	24	195	<.4	12	209	1	6	37	2.33	16	10	<5	<5	42	<2	<2	37	3	6	132	.20	<.01	.80	.29	.01	.07
9330460	222158* 4 2B231	34	78	111	<.4	55	307	<1	2	16	4.64	59	13	<5	5	59	<2	<2	38	<2	4	33	.12	<.01	.95	.07	.01	.08
9330461	222159* 2 1B231	41	16	228	<.4	13	167	2	8	57	2.58	2	17	<5	<5	41	<2	<2	23	3	6	152	.42	<.01	1.42	.36	.01	.07
9330462	222160* 4 1B 31	8	10	177	<.4	4	133	<1	3	11	1.59	<2	10	<5	<5	39	<2	<2	23	2	5	61	.22	<.01	.89	.41	.01	.04
9330463	222161* 4 2B231	8	12	99	<.4	8	139	<1	3	8	1.83	<2	11	<5	<5	40	<2	<2	15	<2	5	82	.17	<.01	1.19	.22	.01	.05
9330464	222162* 4 2B231	35	15	215	<.4	<2	277	1	12	37	2.86	<2	19	<5	<5	44	<2	<2	18	4	9	269	.31	<.01	1.81	.34	.01	.06
9330465	222163* 4 2B 31	20	34	243	.8	<2	188	3	5	20	2.43	<2	15	<5	<5	56	<2	<2	23	2	5	97	.27	<.01	1.27	.32	.01	.07
9330466	222164* 4 1B231	23	24	142	<.4	10	291	2	3	19	2.48	5	13	<5	<5	57	<2	<2	24	2	5	58	.21	<.01	1.10	.29	.01	.06
9330467	222165* 4 2G231	44	34	252	<.4	4	402	7	14	37	3.23	4	15	<5	5	35	<2	<2	73	5	5	631	.35	<.01	1.19	1.24	.01	.06
9330468	222166* 4 1G352	31	12	124	<.4	13	355	3	6	31	1.85	<2	15	<5	<5	31	<2	<2	54	6	7	282	.40	.01	1.10	1.08	.01	.05
9330469	222167* 4 2B231	54	29	231	<.4	8	560	5	15	29	3.43	2	13	<5	5	32	<2	<2	26	2	4	726	.26	<.01	1.12	.32	.01	.08
9330470	222168* 4 1G 31	41	10	106	<.4	12	589	1	8	32	2.23	<2	20	<5	<5	41	<2	<2	50	9	11	683	.49	.01	1.51	.79	.01	.09
9330471	222169* 4 2G341	63	25	151	<.4	2	294	<1	13	53	3.29	2	19	<5	<5	31	<2	<2	35	9	9	371	.56	<.01	1.38	.38	.01	.09
9330472	222170* 4 1B 31	15	12	82	<.4	8	164	<1	5	16	1.98	<2	14	<5	<5	36	<2	<2	20	2	7	116	.35	<.01	1.03	.28	.01	.07
9330473	222171* 4 2B 31	19	9	106	<.4	6	286	1	8	17	2.34	<2	15	<5	<5	42	<2	<2	23	3	6	185	.39	<.01	1.18	.34	.01	.06
9330474	222172* 4 2B 31	19	6	91	<.4	4	348	1	6	17	1.81	<2	15	<5	<5	35	<2	<2	32	3	7	499	.37	.01	1.04	.47	.01	.06
9330475	222173* 4 2B 31	27	8	91	<.4	<2	515	1	8	22	2.16	<2	17	<5	<5	36	<2	<2	40	6	9	359	.43	.01	1.18	.71	.01	.05
9330476	222701*4222G141	12	9	89	<.4	3	226	<1	3	13	1.35	<2	9	<5	<5	26	<2	<2	18	2	7	72	.21	<.01	.87	.25	.01	.06
9330477	222702*4221B231	12	13	183	<.4	5	129	1	4	25	1.53	4	9	<5	<5	30	<2	<2	20	2	7	130	.22	<.01	.88	.32	.01	.06
9330478	222703*4222B231	18	27	149	<.4	15	238	<1	3	21	2.63	3	13	<5	5	49	<2	<2	19	2	6	52	.23	<.01	1.14	.20	.01	.07
9330479	222704*4423B231	29	31	70	7.3	33	737	<1	4	35	2.66	51	21	<5	<5	173	<2	<2	39	2	6	36	.26	<.01	2.00	.14	.01	.07
9330480	222705*4423G231	11	21	49	<.4	9	759	1	1	9	1.35	42	13	<5	<5	126	<2	<2	249	4	4	<5	.07	<.01	.47	.12	.01	.09
9330481	222706*4423G231	1	17	1082	<.4	43	319	4	12	74	2.12	2	10	<5	<5	94	<2	<2	74	32	16	864	6.54	<.01	.66	11.93	.01	.01
9330482	222707*4112B243	66	93	6875	<.4	33	1758	80	154	1362	12.49	23	6	<5	<5	320	<2	<2	111	163	2	1128	.64	<.01	3.59	2.68	<.01	.02
9330483	222708*4423G241	51	42	178	<.4	10	480	1	8	47	2.02	11	12	<5	<5	63	<2	<2	40	3	6	149	.22	<.01	.88	.23	<.01	.06
9330484	222709*4112G241	45	16	584	<.4	15	964	6	9	182	1.64	11	10	<5	<5	46	<2	<2	50	7	6	280	.31	.01	.57	.62	.01	.05
9330485	222710*422GB241	41	42	303	<.4	16	708	2	8	77	2.39	10	14	<5	<5	71	<2	<2	45	3	5	94	.25	<.01	1.02	.34	.01	.07
9330486	222711*4422B231	9	43	113	<.4	17	2501	1	3	22	1.04	<2	4	<5	<5	36	<2	<2	51	9	4	920	5.84	<.01	.42	11.45	.01	.01
9330487	222712*442KB241	12	84	1275	<.4	7	1107	3	5	54	1.90	7	14	<5	5	101	<2	<2	25	15	8	506	3.80	<.01	.95	6.26	.01	.05
9330488	222713*4323B132	2	168	776	<.4	<2	321	5	3	8	1.88	<2	7	<5	<5	36	<2	<2	23	12	10	1581	5.23	<.01	.74	9.83	.01	.01
9330489	222714*4322B132	5	80	1558	<.4	<2	451	7	4	12	1.81	<2	13	<5	6	74	<2	<2	13	8	9	1749	1.60	.01	1.16	3.13	.01	.03
9330490	222715*4222G241	65	64	423	1.6	47	849	3	16	112	3.40	19	16	<5	<5	72	<2	<2	33	9	8	321	.36	<.01	1.11	1.09	.01	.05

NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
0491	222716*4222B242	12	46	664	<.4	12	336	3	9	39	2.58	2	18	<5	<5	100	<2	<2	16	4	6	670	.39	.01	1.56	.54	.01	.03
0492	222717*4111B342	17	37	565	<.4	11	1655	3	3	17	.95	<2	6	<5	<5	16	<2	<2	44	5	4	351	4.75	<.01	.46	10.00	.01	.01
0493	222718*422GB241	38	55	288	<.4	23	337	1	11	55	2.59	4	19	<5	<5	97	<2	<2	20	13	10	554	1.05	<.01	1.53	1.74	.01	.04
0494	177401*14 2B 31	15	10	73	<.4	2	819	<1	4	8	1.15	<2	8	<5	<5	30	<2	<2	23	2	7	100	.17	<.01	.92	.27	.01	.07
0495	177402*14 2B 31	14	9	51	<.4	<2	185	<1	3	12	1.68	<2	13	<5	<5	44	<2	<2	14	2	6	97	.27	<.01	1.29	.23	.01	.05
0496	177403*14 1B 31	33	10	55	<.4	11	1043	<1	8	19	1.90	<2	13	<5	<5	26	<2	<2	24	6	13	413	.42	.01	.95	.32	.01	.13
0497	177404*14 2B341	9	11	72	<.4	<2	365	<1	3	8	1.69	<2	8	<5	<5	33	<2	<2	15	<2	7	93	.17	<.01	.80	.18	.01	.06
0498	177405*14 2B 32	19	9	86	.7	<2	1038	<1	3	11	1.20	<2	6	<5	<5	21	<2	<2	31	<2	6	493	.09	<.01	.47	.23	.01	.05
0499	177406*14 2B 31	31	13	85	<.4	11	756	<1	6	23	2.24	<2	17	<5	<5	34	<2	<2	34	2	5	175	.36	<.01	1.04	.28	.01	.06
0500	177407*14 BR 31	22	16	88	<.4	12	303	<1	4	16	2.89	<2	15	<5	5	42	<2	<2	14	2	6	79	.27	<.01	1.36	.10	.01	.05
0501	177408*14 2B 31	48	18	164	<.4	9	541	1	11	32	3.05	<2	15	<5	<5	33	<2	<2	27	4	7	463	.43	<.01	1.33	.28	.01	.08
0502	177409*14 2B 31	15	10	71	<.4	3	165	<1	3	9	1.61	<2	8	<5	<5	35	<2	<2	14	<2	7	78	.14	<.01	.67	.15	.01	.06
0503	177410*14 2B 31	30	14	239	.5	9	2274	3	10	23	1.85	<2	13	<5	<5	29	<2	<2	40	5	10	748	.24	<.01	1.18	.43	.01	.07
0504	177411*14 2B 31	24	9	101	.4	<2	894	1	9	14	1.77	<2	11	<5	<5	36	<2	<2	71	3	8	302	.25	<.01	.98	.61	.01	.05
0505	177412*14 2B 31	12	7	25	<.4	<2	60	<1	1	2	2.44	<2	5	<5	<5	76	<2	<2	21	<2	2	34	.10	.03	1.32	.17	.01	.03
0506	177413*14 2B231	30	9	82	.4	<2	507	<1	8	21	1.23	<2	13	<5	<5	13	<2	<2	49	7	5	810	.23	<.01	.77	1.07	.01	.03
0507	177414*14 2B 31	63	16	98	<.4	<2	337	<1	11	36	2.26	<2	15	<5	<5	20	<2	<2	28	9	10	267	.46	<.01	1.06	.76	<.01	.04
0508	177415*14 2B 31	49	14	134	<.4	12	595	<1	14	48	3.65	<2	24	<5	5	59	<2	<2	41	16	20	1005	.40	.01	2.37	.43	.01	.07
0509	177416*14 2B 31	9	5	50	.4	<2	279	<1	2	7	.69	<2	5	<5	<5	21	<2	<2	33	<2	6	281	.06	<.01	.52	.38	.01	.05
0510	177417*14 2B 31	27	9	56	<.4	4	924	<1	5	19	1.83	<2	13	<5	<5	25	<2	<2	26	3	10	168	.26	<.01	1.04	.35	.01	.06
0511	177418*14 2B 31	19	12	48	<.4	5	190	<1	4	12	2.69	<2	16	<5	<5	55	<2	<2	22	2	4	80	.29	<.01	1.27	.27	.01	.04
0512	177419*14 RB 31	12	15	84	<.4	<2	741	<1	5	10	2.27	<2	10	<5	5	35	<2	<2	44	<2	5	609	.20	<.01	1.06	.33	.01	.08
0513	177420*14 2B 31	9	8	48	<.4	9	150	<1	2	8	1.41	<2	8	<5	<5	35	<2	<2	11	<2	7	84	.14	<.01	.78	.12	.01	.04
0514	177421*14 2B 31	28	14	82	<.4	<2	211	<1	6	24	2.66	<2	14	<5	<5	30	<2	<2	12	<2	5	80	.27	<.01	.94	.14	.01	.05
0515	177422*14 2B321	23	15	77	<.4	9	113	<1	3	14	2.21	<2	11	<5	<5	40	<2	<2	12	<2	6	76	.24	<.01	.96	.11	.01	.04
0516	177423*14 2B 31	16	15	64	<.4	<2	168	<1	4	14	2.10	<2	13	<5	<5	42	<2	<2	15	<2	6	89	.32	<.01	1.09	.17	.01	.05
0517	177424*14 2B 31	20	7	87	<.4	10	192	<1	4	15	2.49	<2	16	<5	<5	57	<2	<2	18	<2	4	106	.31	.01	1.19	.27	.01	.06
0518	177425*14 GB 31	57	21	101	<.4	40	419	<1	9	28	2.21	<2	14	<5	<5	27	<2	<2	24	4	7	373	.33	<.01	.86	.23	.01	.06
0519	177426*14 2G 42	76	20	147	<.4	15	329	1	9	36	2.30	<2	17	<5	6	30	<2	<2	143	11	9	507	.49	<.01	1.16	2.12	.01	.04
0520	177427*14 RB 32	14	11	65	<.4	<2	111	<1	4	9	2.74	<2	15	<5	<5	59	<2	<2	14	2	4	79	.25	<.01	1.63	.19	.01	.03

sufficient sample X=small sample E=exceeds calibration C=being checked R=revised
equested analyses are not shown ,results are to follow

YTICAL METHODS
CP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

PAR/RAP-WD

Job V 93-0456R

Report date 26 OCT 1993

LAB NO	FIELD NUMBER	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	FeO %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	Ba %	LOI %	%
R9305861	S93-725-1	42.52	1.87	13.27	14.15		0.17	15.22	2.49	0.24	0.08	0.23	0.02	9.30	99.56
R9305862	S93-725-3	39.70	2.31	15.11	13.43		0.19	9.47	5.08	1.63	1.68	0.29	0.87	9.43	99.19
R9305863	S93-725-4	48.63	2.54	15.06	11.85		0.13	8.43	2.18	3.20	0.83	0.31	0.28	6.18	99.62
R9305864	DR93-62	81.48	0.35	6.26	1.94		0.01	0.39	0.17	0.85	1.77	0.02	2.92	2.41	98.57
R9305865	DR93-63	84.28	0.31	5.25	3.58		0.65	0.45	0.24	0.70	1.28	0.12	0.65	1.82	99.33
R9305866	DR93-64	56.63	0.19	2.26	0.84		0.01	0.25	0.21	0.83	0.49	0.06	22.44	1.90	86.11
R9305867	DR93-65	81.06	0.20	2.13	1.31		0.01	0.09	0.19	0.32	0.47	0.04	7.47	1.63	94.92
R9305868	S93-725-5	44.51	2.26	13.98	12.06		0.14	9.51	4.82	2.35	0.46	0.32	0.15	8.80	99.36

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

FeO determined by acid digestion /volumetric.LOI determined gravimetrically
Other elements by Li borate fusion/XRF .Where no FeO value shown 'Fe2O3' is total Fe as Fe2O3

PAR/RAP-WD

Job V 93-0456R

Report date 26 OCT 1993

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm	Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
R9305861	S93-725-1	55	<4	91	<.4	47	43	<1	57	307	7.37	<2	592	<5	11	178	<2	<2	61	4	5	919	7.73	.07	5.77	1.44	<.01	.03
R9305862	S93-725-3	73	<4	86	<.4	28	296	<1	37	103	7.22	<2	151	<5	<5	222	<2	<2	170	4	8	1133	5.10	.01	4.64	3.29	.01	.04
R9305863	S93-725-4	63	12	94	<.4	12	358	<1	32	87	6.62	<2	134	<5	<5	204	<2	<2	53	5	7	767	4.54	.02	4.02	1.40	.02	.13
R9305864	DR93-62	33	5	25	1.3	5	1280	<1	2	9	1.30	5	111	<5	<5	7	<2	<2	47	<2	7	23	.05	<.01	.24	.03	.01	.11
R9305865	DR93-63	96	26	180	.6	17	889	1	13	52	2.13	<2	60	<5	<5	6	<2	<2	31	3	13	5589	.08	<.01	.30	.11	.01	.12
R9305866	DR93-64	10	<4	30	<.4	9	3087	<1	3	15	.63	2	87	<5	<5	5	<2	2	45	<2	<2	10	.01	<.01	.27	.01	<.01	.02
R9305867	DR93-65	44	7	39	<.4	3	864	<1	4	32	.93	5	176	<5	<5	43	3	<2	36	<2	<2	32	.02	<.01	.42	.03	<.01	.02
R9305868	S93-725-5	66	<4	81	<.4	<2	374	<1	38	119	6.63	<2	214	<5	<5	198	<2	<2	150	6	9	839	5.29	.01	4.56	3.17	.02	.02

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS
ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

APPENDIX III

STATEMENT OF QUALIFICATIONS

I, Dereck Rhodes, of the District of North Vancouver, in the Province of British Columbia make oath and say:

1. THAT I am a geologist residing at 2514 Bronte Road, North Vancouver, British Columbia with a business address at 700-409 Granville Street, Vancouver, British Columbia.

2. THAT I graduated with a B.Sc in geology from McMaster University, Hamilton, Ontario in 1969.

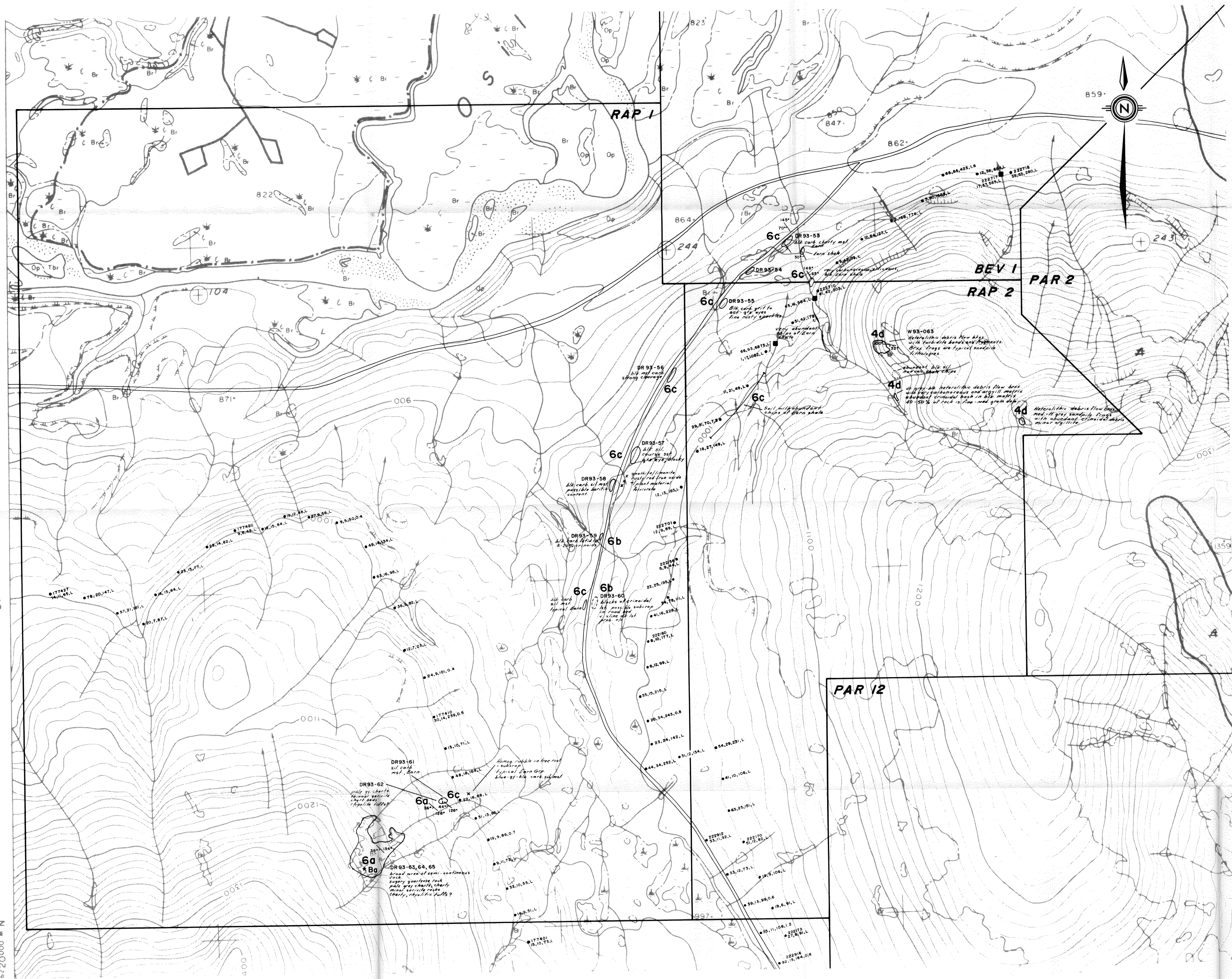
3. THAT I have practised geology with Cominco Ltd. from June, 1969 to present.

Dereck Rhodes

Dereck Rhodes
Senior Geologist

DR/dr

February 1994



1994 PAR LEGEND

(Older stratigraphic terminology is used with equivalent stratigraphic nomenclature defined by Ferri in brackets)

Upper Devonian - Lower Mississippian

EARN GROUP (BIG CREEK GP)

6 Undifferentiated

6a GILLILAND TUFF - Andesitic to rhyolitic ash tuffs, crystal tuffs, lapilli tuffs, agglomerates and volcaniclastics.

6a(i) LIMESTONE dark grey, flaggy limestone interbedded or associated with volcanics

6a(ii) NON SILICEOUS MUDSTONES - soft, grey to dark grey mudstones interbedded with either volcanics or 6a(i) limestones.

6b LIMESTONES/DOLOMITES black, carbonaceous fetid limestones and/or dolomites, sometimes crinoidal that appear to be interbedded with 6c black siliceous mudstones.

6c BLACK, CARBONACEOUS, SILICEOUS SHALE AND MUDDY CHERT. Thin, planar bedded (0.5-10 cm), silver to blue- grey weathering, clinky sound when struck.

Middle Devonian

McDAME GROUP (OTTER LAKES GROUP)

5 (undifferentiated)

5a VARIABLY FOSSILIFEROUS, FINE-MEDIUM GRAINED, LIMESTONE/DOLOMITE. Medium-dark grey, massive to thick bedded, finely bioturbated. Fossils include: crinoids (1,2,4 and 5 holes), amphipora, stromatoporoids, rugose corals, bivalves and bryozoa. Locally fetid and bituminous.

BASINAL FACIES

5b MEDIUM TO THICK PLANAR BEDDED, FETID LIMESTONE/DOLOMITE. Dark grey to black, finely crystalline limestone or dolomite, well defined 10 to 50 cm thick planar beds, thin (10 cm) cherty beds locally, distinctly fetid, very few fossils, fine crackle brecciation common.

5c THINLY BEDDED, SILT AND SAND STRIPED 'TURBIDITES'. Medium to dark grey limestone and/or dolomite, 2-10 cm graded beds composed of carbonate mudstone striped with carbonate silt and sand laminae (1-10 mm), slightly fetid, no fossils observed.

5d VARIABLY CALCAREOUS AND/OR DOLOMITIC SHALES: Dark grey to black, fine shaley carbonates to very slightly calcareous shales, generally very fissile, planar to irregular (0.5 to 5.0 mm) laminations, recessive weathering.

PLATFORM FACIES

5e LIMESTONE DOLOMITE WITH SCATTERED QUARTZ SAND dense, medium bedded finely crystalline light to dark grey dolomite (occasionally limestone) hosting <1% to 5% scattered well rounded quartz-sand grains.

5f LIMESTONE/DOLOMITE WITH ABUNDANT QUARTZ SAND - as above thin to thick bedded carbonates hosting 5-50% quartz sand grains. Cross bedding of sand rich laminae and bands sometimes evident.

5g QUARTZ SANDSTONES SILTSTONES - Mature quartz sandstones and silstones, crossbeds and ripple cross laminations common, variable carbonate cement. Occasional carbonate interbeds, some non calcareous mudstones.

Early Silurian - Early Devonian

SANDPILE GROUP (ECHO LAKE GROUP)
(lithologies not necessarily in stratigraphic order)

4 (undifferentiated)

4a FINE-MEDIUM GRAINED, MOTTLED LIGHT-MEDIUM GREY AND GREENISH BUFF DOLOMITE ± LIMESTONE. Bedding is generally indistinct, undulatory algal laminations locally, silica ribs and blebs are common and locally define bands (< 1.0 m) with up to 50% silica, dark grey ooids (1-2 mm) locally, may be fetid and crackle brecciated.

4b MEDIUM-COARSE CRYSTALLINE WHITE-LIGHT GREY DOLOMITE. Massive-medium bedded (10-20 cm), may have sucrosic or "salt and pepper" appearance, coarse grained sections typically lighter colour, occasional bituminous vugs or crackle network, locally zebra and fenestral texture, patchy silicification.

4c MEDIUM-DARK GREY, FINE-MEDIUM CRYSTALLINE DOLOMITE ± LIMESTONE. Characterized by fenestral fabric defined by lenses and discontinuous laminations of white dolomite, faint fetid odour, locally oolitic bioturbated.

4e INTENSELY SILICIFIED DOLOMITE - rock composed of 60-100% silica notting and replacing dolomite locally Sandpile lithologies evident elsewhere host carbonate of uncertain affinity.

4f DOLOMITE HOSTING SAND GRAINS - medium bedded, light to dark grey dolomites with 1-10% disseminated, well rounded quartz sand grains.

Age Unknown at least in part Middle Devonian

4d HETEROLITHIC SEDIMENTARY BRECCIAS

Breccia exhibits debris flow and more locally solution collapse characteristics. May be clast supported or matrix supported (diamictite).

Fragments: angular to subangular, < 10 cm to > 10 m. Fragment lithologies include units' 5a (one boulder with 2-holed crinoid fragment), 4a, 4b, 4c, 2a, 2b, 2c, 2d, 2A, 1b. Unit 4 (Sandpile) or Unit 2 (Rosella) usually represent the dominant fragment type.

Matrix:

Type 1: light green-grey, fine grained dolomite and white, medium-coarse crystalline dolspar.

Type 2: medium to dark grey, fine-medium grained to sucrosic, variably carbonaceous and argillaceous dolomite. Massive to well bedded and very locally classic turbidite (Bouma cycle) graded bedding.

SYMBOLS

- Soil Sample Site (Cu, Pb, Zn, Ag values in ppm)
- Stream Sediment Site
- Outcrop
- Subcrop
- 35° Bedding

GEOLOGICAL BRANCH
ASSESSMENT REPORT

100 200 300 400 500
metres

23,320

RAP CLAIMS

OMINECA M.D., B.C.

Cominco

N.T.S. 94 C/3

Drawn by D.R.		Traced by g.k.g.	
Revised by	Date	Revised by	Date

GEOLOGY & GEOCHEMISTRY

Scale 1 : 5,000 | Date DECEMBER 1993 | Plate 93-1

FORM 210 - 0670

DEAKIN 1013