673740

Bradina Joint Venture,
Mine Camp,
7 May 1972.

Mr. F.W. Fitzpatrick, President,
Bralorne Can-Fer Resources Limited,
320-355 Burrard Street,
Vancouver 1, B.C.

Dear Bill:

Herewith two copies of my report regarding the ore reserve picture, together with the tables summarizing the supporting figures. Needless to say, I have not included a lot of the other back-up material, but have put in enough, I hope, to outline my thinking.

Normally, I would submit this as a typed report under our letterhead and cover, but have sent you this in the interest of speed. Please let me know whether you wish our office to compile it properly, or whether this will serve your purpose. I am sending a copy to my office at the same time, so it can be easily arranged by a telephone call.

I will be able to put on paper my thoughts about the projected costs of operation much more accurately after the next few days, wherein we will be in possession of the figures for April operation.

I am still hopeful, however, that my original prediction of $14.00 per ton of ore milled, as related to 16,000 tons per month, can be realised, and with proper operation, a lower figure for say 17,000 to 18,000 tons per month milled.

Yours truly,

J.J. Crowhurst

J.J. Crowhurst.

Bradina Mine,
7 May 1972.

Mr. F. W. Fitzpatrick, President,
Bralorne Can-Fer Resources Limited,
320-355 Burrard Street,
Vancouver 1, B.C.

Dear Mr. Fitzpatrick:

Pursuant to your request, I have examined and made an estimate of a portion of the mineable ore reserves at the Nadina property, Houston B.C., now operated by the Bradina Joint Venture under Bralorne Can-Fer management. I have not made a complete proper detailed ore reserve estimate, but have completed enough work to indicate the expected grade of the various valuable metals, and their value per ton of ore.

Although I have not examined the basic calculations made by Dr. D.D.Campbell, I am in possession of his summary report entitled "1971-Ore Reserves" I have used calculations,made by the Bralorne staff, as I understand, which show vein widths, assays, and weighted averages for the various ore-shoots. I have had, of course, the advantage of the sampling and assaying carried out by the mine staff in recent months as the mining has progressed. The draft of a report written by the late F.R.Thompson for Nadina Explorations Ltd. to "outline a mining method applicable to the Wrinch vein system---" has been examined; comments are made later in this report.

RESERVE ESTIMATES

The comparative reserve estimates are as in the following table. Dr. Campbell's estimate refer to "total proven probable ore for the four veins---", whereas the other estimates are made for the No. 3 vein system only. A comparison is made,however,between selected blocks from Dr. Campbell's tabulation, actual mining results to date, and Bacon & Crowhurst estimates in a table following in this report.

Bralorne estimates apply to ore blocks situated above and below the 2600 level, but Bacon & Crowhurst estimates and Mr. Thompson's estimates apply only to that ore located above the 2600 level.

Factors, based on expected metallurgy and present metal prices, have been calculated, which,when applied to each metal assay value in turn and then totalled, give net smelter returns in $Canadian per ton of ore. These assay values are after mining dilution has been applied. It is to be particularly noted that these factors are also based on existing metal sales contracts.

LIST OF TABLES

To accompany report by J.J. Crowhurst - to F. W. Fitzpatrick- President Bralorne Can-Fer Resources Limited, dated 7 May 1972.

TABLE No. 1

COMPARISON - NET SMELTER RETURNS - $ per ton of ore

	Gold		Silver		Copper		Lead		Zinc		
	Assay	NSR	Assay	NSR	Assay	NSR	Assay	NSR	Assay	NSR	Total NSR
Campbell	0.10	$0.77	10.00	$6.50	0.76	$4.41	2.10	$1.05	6.96	$10.44	$23.17
Bralorne #1	0.12	$0.92	10.49	$6.81	0.80	$4.64	1.59	$0.80	7.05	$10.57	23.74
Bralorne #2	0.10	$0.77	8.37	$5.45	0.64	$3.71	1.27	$0.63	5.64	$8.46	19.02
Thompson #1	0.12	$0.92	10.00	$6.50	0.65	$3.77	1.47	$0.73	6.40	$9.60	21.52
Thompson #2	0.12	$0.54	10.00	$7.95	0.65	$4.38	1.47	$0.66	6.40	$6.96	20.49
Bacon & Crowhurst	0.06	$0.46	7.08	$4.60	0.74	$4.29	0.95	$0.48	5.26	$7.89	17.72

Notes

Bralorne #1 - No dilution -

Bralorne #2 - Plus 20% dilution @ zero grade

Thompson #1 - Reserves using present metal prices & Bradina metallurgy etc.

Thompson #2 - Reserves using metal prices at time of his report and Bradina metallurgy etc

All estimates (except Thompson #2 as noted) use assay reserves coupled with factors related to Bradina expected metallurgy and smelter contracts now in force

TABLE No. 2 ESTIMATED CONCENTRATE VALUES PER TON OF ORE

COPPER CONCENTRATE

Content = 19% Cu - 0.72 oz. Au - 138 oz Ag - 6.00% Zn - 10% Pb - 2.50% Sb + As.

Metal paid for = 380# - 20# = 360# Cu
= 0.72 ozs x 95% = 0.684 ozs Au
= 138 ozs x 92% = 127.0 ozs Ag

Prices assumed. Cu - 52.5¢ - Au = $46 - Ag = $1.50

Gross Revenue

		P.T. Concs	Prorated Deduct	Net P.T. Concs
Cu = 360# x (52.5-4.7)	=	$172.08	25.49	146.6¢
Au = 0.684 x $46	=	31.46	4.65	26.81
Ag = 127.0 x (1.50-0.10)	=	177.80	26.29	151.51
		381.34	56.38	324.96

DEDUCTIONS

Treatment $45.00

Penalties

		$
Zinc	= 1.00 x 50¢ =	0.50
Pb	= 9.00 x 50¢	4.50
Sb	= 2.00 x 50¢	1.00
As	= 2.00 x 1.00	2.00
Bi	= 0.18 x 1.00	0.18
		8.18

Freight 3.20

56.38

Net @ Houston $ 324.96 per ton of ore

Net Per Unit	
Cu =	38.6¢/lb
Au =	$37.24/oz
Ag =	$1.10/oz.

TABLE No 3 ESTIMATED CONCENTRATE VALUES PER TON OF ORE

ZINC CONCENTRATE -

Content - 49% Zn - 6.0% Pb - 19 oz Ag - 0.12 oz Au - 0.28% Cd.

Metal Paid For = 49% - 8% = 41% = 820#
= 6.00 - 2.50 = 3.50% = 70.0# Pb
= 19.00 - 1.82 = 17.18 x 85% = 14.60 ozs Ag
= 0.12 - 0.03 = 0.09 x 50% = 0.045 ozs Au
= 0.28% = 5.60# - 2.73# = 2.87# Cd

Gross Revenue

	P.T. Concs	Prorated Deduc'n	Net P.T. Concs	Units	Net per Unit
Zinc = 820# x 18.0¢ =	$147.60	61.16	86.44	980#	8.82¢
Pb = 70# x 14.7¢ =	10.29	4.26	6.03	120#	5.03¢
Ag = 14.60 x $1.50 =	21.90	9.07	12.83	19 oz	67.5¢
Au = 0.045 x $46.00 =	2.07	0.86	1.21	0.12 oz	$10.08
Cd = 2.87 x 2.20 x 50% =	3.15	1.31	1.84	5.60#	0.33¢
	$185.01	76.66	108.35		

DEDUCTIONS.

Treatment = 43+6+10 = $59 x 2/22 = $53.64

Freight

	PSWT
Mine to Houston = say	3.50
Houston to Pr Rupert	5.51
Loading @ Pr. R.	4.00
Freight to Japan	8.50

Total 21.51 x 1.07 (H_2O) = 23.02

Total = $76.66

As above - Net Smelter Return = $108.35 per ton of ore.

TABLE No 4 DETERMINATION OF FACTORS FOR NET SMELTER RETURNS

Factors to be applied directly to individual assay values & totalled.

ASSUMED METALLURGY

Copper recovery in Copper Conc. - 75%. (March est = $\frac{31,688}{69,118}$ = 45.8% - cf. 51.1% (on daily sheets))
Zinc recovery in Zinc Conc - 85%.
Copper & Zinc concentrate analysis as per attached est
Silver recovery - 40% in Cu Conc - 20% in Zn Conc - total of 60%.
Gold recovery - 16% in Cu Conc - 17% in Zn Conc - total of 33%
Lead recovery - 50% in Zn Conc

ORE	Factor	MINE USE IN PRACTICE
1% Copper = 20# x 75% recovery = 15.0# x 38.6¢/lb =	5.79	5.8
1% Zinc = 20# x 85% recovery = 17.0# x 8.82¢/lb =	1.50	1.5
1 oz Ag =		
Copper Conc = 0.45 x $1.10 = # 0.495		
Zinc Conc = 0.22 x 0.675 = 0.149		
Total	0.644	0.65
1 oz Au =		
Copper Conc = 0.16 x $37.24 = 5.96		
Zinc Conc = 0.17 x 10.08 = 1.71		
Total	7.67	7.7
1% Pb = 20# x 50% = 10# x 5.03¢	0.503	0.5

Example

	Assay values	Factor	Product
Gold - ozs/ton	0.09	7.7	#0.69
Silver - ozs/ton	5.09	0.65	3.31
Copper - %	0.56	5.8	3.25
Lead - %	0.84	0.5	0.42
Zinc - %	6.35	1.5	9.52
Total = Net smelter return per ton =			# 17.19

TABLE No. 5 — NADINA (BRALORNE) — BRALORNE CAN-FER RESOURCES LIMITED — WEIGHTED ORE-BODIES

Page No. 4

Ore Block	Length	Width	ASSAY Au	Ag	Cu	Pb	Zn	Length x Width	~~WIDTH X ASSAY~~ or LENGTH X WIDTH X ASSAY Au	Ag	Cu	Pb	Zn
N1	223	2.1	.04	4.19	1.34	2.38	6.29	468.3	18.732	1962.177	627.522	1114.544	2945.607
N2	215	3.2	.02	5.99	1.59	1.56	9.41	688.0	13.760	4121.420	1093.920	1073.280	6474.080
N3	85	2.5	.03	5.50	1.30	1.20	4.70	212.5	6.375	1168.750	276.250	255.000	998.750
N4	173	3.8	.02	5.18	1.00	2.46	14.47	657.4	13.148	3405.332	657.400	1617.204	9512.578
N5	240	3.2	.06	11.54	.94	1.58	11.90	768.0	46.080	8862.720	721.920	1213.440	9,139.200
N6	250	3.1	.05	12.20	1.56	.74	10.67	775.0	38.750	9455.000	1209.000	573.500	8,269.250
S1	(250) 174	3.3	.06	15.22	2.92	.65	2.52	574.2	34.452	8739.324	1676.664	373.230	1,446.984
S2 296	270	3.9	.10	8.96	1.64	1.34	9.82	1053.0	105.300	9434.880	1726.920	1411.020	5075.460
S3	275	5.9	.11	6.60	.32	1.96	6.28	1622.5	178.475	10,708.500	519.200	3180.100	10,189.300
S4	175	6.2	.03	10.77	.69	1.22	8.52	1085.0	32.550	11,685.450	748.650	1323.700	9,244.200
S5	57	5.1	.05	7.58	.85	.23	9.79	290.7	14.535	2203.506	247.095	66.861	2845.953
S6	118	4.0	.04	4.53	.17	1.01	5.25	472.0	18.880	2133.160	80.280	476.720	2478.000
S7	250	5.3	.04	5.93	.31	2.12	9.31	1325.0	53.000	7857.250	410.750	2809.000	12,335.750
S8	247	2.8	.19	10.79	.15	1.37	7.04	691.6	131.404	7462.364	103.740	947.492	4,868.864
S9	287	3.8	.22	17.45	.19	2.26	8.57	1090.6	239.932	19030.970	207.214	2464.756	9346.442
S10	220	3.2	.12	9.17	.79	.93	3.77	704.0	84.480	6455.680	556.160	654.720	2,653.160
S11	232	4.2	.17	17.11	.72	.54	4.25	974.4	165.648	16671.984	701.568	526.176	4,141.200
S12	350	4.2	.28	11.53	.34	1.07	3.69	1470.0	411.600	16,949.100	499.800	1572.900	5424.300
S13	85	5.2	.02	1.90	.15	.97	4.59	442.0	8.840	338.800	66.300	216.530	2028.780
	3926							15,364.2	1,616.041	149,152.067	12,139.753	21,870.223	~~110,120.0~~ ~~104,442.850~~
		15,364.2 / 2,926 = 3.91' (3.913)							÷ 15,364.2 = 0.11 (0.1051)	9.71 6.31	0.79 % 4.58	1.42 % 0.71	7.12 ~~6.80~~ ~~2.17~~ ~~10.76~~ 10.16

NSR-JK

TOTAL - ~~$23.13~~ ~~2321~~ /ton ~~1020~~

TABLE No. 6

RADIND (BRALORNE) BRALORNE CAN-FER RESOURCES LIMITED

WEIGHTED ORE BLOCKS

(PROVEN)

Ore Block	DRIFT ASSAY SECTION. Length	SLOPE DIST. Width	ASSAY Au	Ag	Cu	Pb	Zn	TONS ~~Length~~ x ~~Width~~	TONS WIDTH X ASSAY or LENGTH X WIDTH X ASSAY Au	Ag	Cu	Pb	Zn
(Part) A	N-1		.04	4.19	1.34	2.38	6.29	10,443	417.72	43,756.17	13,993.62	24,854.34	65,686.47
B	N-2	286	.02	5.99	1.59	1.56	9.41	19677	393.54	117,865.23	31286.43	30,696.12	185,160.57
× C	N-3		.03	5.50	1.30	1.20	4.70	3995	119.85	21,972.50	5193.50	4794.00	18,776.50
D	N-4	227	.02	5.18	1.00	2.46	14.47	14923	298.46	77,301.14	14923.00	26710.58	215,955.81
E	N-5	227	.06	11.54	.94	1.58	11.90	17434	1046.04	201,188.36	16387.96	27545.72	207,464.60
F	S-1	207	.06	15.22	2.92	.65	2.52	11,586	713.16	180904.92	34707.12	7725.90	29,952.72
G	S-2	(400) 300	.10	8.96	1.64	1.34	4.32	42,120	4212.00	377,395.20	69076.80	56448.80	203,018.40
× H	Trenches		.17	9.45	.11	6.48	12.63	10,540	1791.80	99,603.00	1159.40	68299.20	133,120.20
I	S-3	206	.12	8.75	.23	2.01	5.46	33,424	4010.88	292,460.00	7687.52	67182.24	182,493.04
× J	Trenches		.22	10.35	.32	3.60	6.90	2851	627.22	29507.85	684.24	10,263.60	19,671.90
× K	"		.31	22.30	.13	5.47	12.06	3846	1192.26	91534.80	499.98	21037.62	46382.76
× L	"		.16	25.76	.25	3.65	10.50	1554	248.64	40031.04	435.12	5672.10	16,317.00
× M	"		.11	9.90	.76	1.16	4.10	11,968	1316.48	118,483.20	9095.68	13882.48	49,068.80
× N	"		.17	17.80	.70	.59	4.20	9289	1579.13	165,344.20	6502.30	5480.51	39013.80
O	N-6	228	.05	12.20	1.56	.74	10.67	17670	883.50	215,574.00	27565.20	13075.80	188,553.90
P	S-4	260	.03	10.77	.69	1.22	3.52	23210	846.30	303821.70	19464.90	34416.20	240349.20
Q	S-5	260	.05	7.58	.85	.23	2.77	7558	377.90	57,289.64	6421.30	1738.34	73,992.82
× R	S-6	242	.04	4.53	.19	1.01	5.25	11,422	456.88	51741.66	2170.18	11536.22	59965.50
Part S	S-7	232	.04	5.93	.31	2.12	9.31	30,740	1229.60	182,288.20	9529.40	65168.80	286,189.40
Part T	S-8	240	.19	10.77	.15	1.32	7.04	16,598	3153.62	179,092.42	2489.70	22139.26	116,849.92
U	S-9	237	.22	17.45	.19	2.26	8.57	25,847	5686.34	451,030.15	4910.93	58,414.22	221,508.79
Part V	S-10	254	.12	9.17	.79	.93	3.79	17,382	2145.84	163977.94	14126.78	16630.26	67,772.78
W	S-11	258	.17	17.11	.72	.52	4.25	25,140	4273.80	430145.40	18100.80	13575.60	106,845.00
Part X	S-12	260	.23	11.53	.34	1.07	3.69	38,220	10701.60	440676.60	12994.80	40895.40	141,031.80
								413,237	47,722.56	4,332,985.32	329,409.66	658,775.71	2,915,108.63
								NSR (JJC)	$23.75	0.17 oz/t	10.49 %	0.80 %	1.59 %	705

BACON & CROWHURST - PARTIAL ORE RESERVE ESTIMATE - BRAVINA JOINT VENTURE - (ABOVE 2600 LEVEL)

TABLE No 7

DILUTED BLOCK GRADE

Dilution Factor calculated by adding two feet to vein width - minimum mining width - 4.0 Ft.

BLOCK	TONS	MINING WIDTH (after dil.)	DILUTION FACTOR	GOLD Vein Assay Undil.	GOLD Vein Assay Dil.	GOLD Tons x Dil. Gr.	SILVER Vein Assay Undil.	SILVER Vein Assay Dil.	SILVER Tons x Dil. Gr.	COPPER Vein Assay Undil.	COPPER Vein Assay Dil.	COPPER Tons x Dil. Gr.	LEAD Vein Assay Undil.	LEAD Vein Assay Dil.	LEAD Tons x Dil. Gr.	ZINC Vein Assay Undil.	ZINC Vein Assay Dil.	ZINC Tons x Dil. Gr.
N-2	22,360	5.2	0.615	0.02	0.01	275.02	5.99	3.68	82,368	1.59	0.98	21,864	1.56	0.96	21,452	9.41	5.79	129,397
N-4	15,050	5.8	0.655	0.02	0.01	197.16	5.18	3.39	51,064	1.00	0.66	9,858	2.46	1.61	24,251	14.47	9.48	142,645
N-5A	9,870	4.7	0.574	0.06	0.03	339.90	5.92	3.40	33,537	0.93	0.53	5,268	1.65	0.95	9,347	9.66	5.54	54,724
N-5B	8,250	5.5	0.636	0.07	0.04	367.29	15.27	9.71	80,122	0.96	0.61	5,037	1.54	0.98	8,080	13.42	8.54	70,415
N-6	19,120	5.1	0.608	0.05	0.03	581.25	12.20	7.41	141,825	1.56	0.95	18,135	0.74	0.45	8,602	10.67	6.49	124,039
S-1	20,750	5.3	0.623	0.06	0.04	775.62	15.22	9.48	196,749	2.92	1.82	37,747	0.65	0.40	8,402	2.52	1.57	32,576
S-2	47,790	5.9	0.661	0.10	0.07	3158.90	8.96	5.92	283,037	1.64	1.08	51,805	1.34	0.89	42,329	4.82	3.19	152,259
S-3	43,450	7.9	0.747	0.11	0.08	3570.27	6.60	4.93	214,216	0.32	0.24	10,386	1.96	1.46	63,616	6.28	4.69	203,830
S-4	21,520	8.2	0.756	0.03	0.02	488.07	10.77	8.14	175,217	0.69	0.52	11,474	1.22	0.92	19,848	8.52	6.44	141,679
S-5	6,070	7.1	0.718	0.05	0.04	217.90	7.58	5.44	33,033	0.85	0.61	3,704	0.23	0.16	1,002	9.79	7.03	42,665
S-7	27,380	7.3	0.726	0.04	0.03	795.12	5.93	4.30	117,876	0.31	0.22	6,162	2.12	1.54	42,141	9.31	6.76	185,064
S-8	6,675	5.0	0.600	0.25	0.15	1001.25	12.18	7.31	48,781	0.12	0.07	481	2.26	1.36	9,051	11.21	6.73	44,896
S-9	24,970	5.8	0.655	0.22	0.14	3598.10	17.45	11.43	285,395	0.19	0.12	3,107	2.26	1.48	36,962	8.57	5.61	140,162
S-11	21,580	6.2	0.677	0.17	0.12	2483.70	17.11	11.58	249,977	0.72	0.49	10,519	0.54	0.37	7,889	4.25	2.88	62,092
																		N.S.R.* Diluted
(a) Weighted Totals & Avgs	294,835	6.31	0.674	0.09	0.06	17849.55	10.13	6.76	1993.97	1.02	0.66	195,547	1.51	1.03	302,972	7.70	5.18	$16.96
(b) Arithmetic Average		6.07	0.661	0.09	0.06		10.45	6.86		0.99	0.64		1.47	0.97		8.78	5.77	17.78
LESS-53																		
(a) Weighted Totals & Avgs	251,385	6.03	0.654	0.09	0.06		10.74	7.08		1.14	0.74		1.44	0.95		7.95	5.26	17.72
(b) Arithmetic Average		5.93	0.661	0.09	0.06		10.75	7.01		1.04	0.67		1.43	0.93		8.97	5.85	18.15

* N.S.R. = Net Smelter return - calculated by Formula as in this report - per ton of ore.

152643

TABLE No 8 — BACON & CROWHURST - PARTIAL ORE RESERVE ESTIMATE - SKALUMN JOINT VENTURE (ABOVE 2600 LEVEL)

(TITLE) — BLOCK VALUE PER TON | VEIN ASSAY | VALUE/TON OF ORE - NO DILUTION

BLOCK	W x L x Ht (in Feet)	TONS	Au	Ag	Cu	Pb	Zn	Au	Ag	Cu	Pb	Zn	Total	DILUTION FACTOR (vein + 2.0 Ft)	NET VALUE PER TON OF ORE	NET VALUE x TONS
N-2	5.2 x 215 x 200	22,360	0.02	5.99	1.59	1.56	9.41	#0.15	$3.89	$9.22	$0.78	$14.11	$28.15	0.615	#17.31	387,051
N-4	5.8 x 173 x 150	15,050	0.02	5.18	1.00	2.46	14.47	0.15	3.37	5.80	1.21	21.71	32.24	0.655	21.12	317,856
N-5A	4.7 x 140 x 150	9,870	0.06	5.92	0.93	1.65	9.66	0.46	3.85	5.39	0.83	14.49	25.02	0.574	14.36	141,733
N-5B	5.5 x 100 x 150	8,250	0.07	15.27	0.96	1.54	13.42	0.54	9.93	5.57	0.77	20.13	36.94	0.636	23.49	193,793
N-6	5.1 x 250 x 150	19,120	0.05	12.20	1.56	0.74	10.67	0.39	7.93	9.05	0.37	16.00	33.74	0.608	20.51	392,151
S-1	5.3 x 174 x 225	20,750	0.06	15.22	2.92	0.65	2.52	0.46	9.89	16.94	0.32	3.78	31.39	0.623	19.56	405,870
S-2	5.9 x 270 x 300	47,790	0.10	8.96	1.64	1.34	4.82	0.77	5.82	9.51	0.67	7.23	24.00	0.661	15.86	757,949
S-3	7.9 x 275 x 200	43,450	0.11	6.60	0.32	1.96	6.28	0.85	4.29	1.86	0.98	9.42	17.40	0.747	12.99	564,416
S-4	8.2 x 175 x 150	21,520	0.03	10.77	0.69	1.22	8.52	0.23	7.00	4.00	0.61	12.78	24.62	0.756	18.61	400,487
S-5	7.1 x 57 x 150	6,070	0.05	7.58	0.85	0.23	9.79	0.39	4.93	4.93	0.11	14.68	25.04	0.718	17.98	109,138
S-7	7.3 x 250 x 150	27,380	0.04	5.93	0.31	2.12	9.31	0.31	3.85	1.80	1.06	13.96	20.98	0.726	15.23	416,997
S-8	5.0 x 89 x 150	6,675	0.25	12.18	0.12	2.26	11.21	1.95	7.92	0.72	1.13	16.82	28.54	0.600	17.12	114,276
S-9	5.8 x 287 x 150	24,970	0.22	17.45	0.19	2.26	8.57	1.69	11.34	1.10	1.13	12.86	28.12	0.655	18.42	459,947
S-11	6.2 x 232 x 150	21,580	0.17	17.11	0.72	0.54	4.25	1.31	11.12	4.18	0.27	6.38	23.26	0.677	15.74	339,669
TOTALS + AVERAGE (weighted)		294,835													#16.96	5,001,333
Arithmetic average															24830/14 = 17.74	
Less Block 53	251,385 - weighted average														17.65	4,436,917
	- arithmetic average														23531/13 = 18.10	

BACON & CROWHURST
J. J. Crowhurst
April 28-1972.

TABLE No. 9

BLOCK AND STOPE CORRELATION

Braloma	Campbell	Brading Stope No. (approx correlation)	Location
N-2	1-W-3		2880 Level - North end.
N-4	2-W-4	N-11.	2600 Level - North end - north of Wrinch Fault
N-5A		N-9	Ditto
N-5B		N-7	Ditto.
N-5	2W3.		Ditto
N-6	2E1	N3 + N5	2600 Level - north end - South of Wrinch Fault
S-1	1-E-1	—	2880 Level - South portal area
S-2	1-E-2	S-2	2880 Level - south end - 300 ft From portal.
S-3	1-E-8	Backs taken down partially.	Ditto - 1800'-2000' From portal.
S-4	2-E-5 (part)	S-8	2600 Level - South end - No 4 Zone
S-5	2-E-5 (part)	S-12	Ditto
S-6	2-E-7.	S-16	Ditto
S-7.	2-E-8	S-18 & S-20	Ditto
S-8	2-E-10 part	S-32	2600 Level - South end - Ruby Zone
S-9	2-E-11	S-34 & S-36	Ditto
S-10	2-E-12	S-38	Ditto
S-11	2-E-13	S-40 & S-42	Ditto.

Typist - Omit

TABLE No. 10 — COMPARISON OF NET SMELTER RETURNS — BRADINA EXPLORATIONS

BACON & CROWHURST
J.J. Crowhurst
April 28 - 1972

Block No.	Stope No.	Campbell Block No.	Vein Width Ft.	Stope Width Ft.	Assay Au ozs/ton	Assay Ag ozs/ton	Assay Cu %	Assay Pb %	Assay Zn %	N.S.R. $/ton-Diluted Ore Au	Ag	Cu	Pb	Zn	N.S.R. $-Totals-Diluted Ore B+C	Mining	Campbell
① N-4	N-11	2W4.															
(a) B+C " 1 - diluted vein			4.0	6.0	0.01	3.04	0.53	1.63	8.70	0.09	1.98	3.07	0.82	13.05	19.01		
(b) B+C " 2 - no dilution - vein			3.8	5.8	0.02	5.18	1.00	2.46	14.47	0.10	2.21	3.80	0.79	14.22	21.12		
(c) Mining - muck samples				6.4	0.01	3.36	0.67	1.25	6.87	0.09	2.18	3.89	0.63	10.31		17.10	
(d) Campbell - diluted vein				4.14	0.03	4.60	0.82	2.38	13.59	0.21	2.99	4.76	1.19	20.39			29.54
② N-5A	N-9	—															
(a) B+C " 2 - no dilution - vein			2.7	4.7	0.06	5.92	0.93	1.65	9.66	0.26	2.19	3.07	0.47	8.27	14.26		
(b) Mining - muck samples				6.1	0.06	5.24	0.89	0.53	3.51	0.26	3.41	5.16	0.27	5.27		14.37	
③ N-5B	N-7	—															
(a) B+C " 1 - diluted - vein			3.5	5.5	0.07	4.90	0.65	0.79	7.92	0.35	3.19	3.77	0.40	11.88	19.59		
(b) B+C " 2 - no dilution - vein			3.5	5.5	0.07	15.27	0.96	1.54	13.42	0.35	6.36	3.56	0.49	12.88	23.64		
(c) Mining - muck samples				6.5	0.07	3.61	0.62	0.75	4.64	0.35	2.35	3.60	0.38	6.96		13.64	
④ N-5	N7+N9 (combined)	2W3.															
(a) B+C (average - #2) - no dil - vein			3.1	5.1	0.04	10.59	0.94	1.59	11.54	0.30	4.28	3.32	0.48	10.57	18.95		
(b) Mining - average - muck				6.3	0.04	4.42	0.75	0.64	4.07	0.30	2.88	4.38	0.32	6.12		14.00	
(c) Campbell - diluted vein				4.0	0.05	8.50	0.90	1.37	11.10	0.39	5.52	5.22	0.68	16.65			28.46

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TABLE I No. 10 Cont'd

COMPARISON OF NET SMELTER RETURNS.
BRADINA EXPLORATIONS

Block No	Stope No	Campbell Block No	Vein Width Ft	Stope Width Ft	Assay Au ozs/ton	Assay Ag ozs/ton	Assay Cu %	Assay Pb %	Assay Zn %	N.S.R. $/ton - Diluted Ore Au	Ag	Cu	Pb	Zn	N.S.R. $ - Totals - Diluted Ore B+C	Mining	Campbell
(5) N-6	N3 & N-5	2 E 1															
(a) B+C #1 - diluted vein			3.3	5.3	0.05	7.23	0.65	0.43	6.05	0.39	4.70	3.77	0.21	9.08	18.15		
(b) B+C #2 - no dilution - vein			3.1	5.1	0.03	12.20	1.56	0.74	10.67	0.24	4.82	5.50	0.22	9.73	20.51		
(c) Mining - muck samples				7.3	0.05	3.63	0.59	0.47	4.20	0.37	2.36	3.42	0.23	6.30		12.70	
(d) Campbell - diluted vein				4.0	0.05	8.50	0.92	0.70	8.10	0.39	5.53	5.34	0.35	12.15			23.76
(6) S-1	—	1 E 1															
(a) B+C #2 - no dilution - vein			3.3	5.3	0.06	15.22	2.92	0.65	2.52	0.29	6.16	10.56	0.20	2.35	19.56		
(b) Campbell - diluted vein				4.0	0.02	11.80	2.28	0.50	1.95	0.15	7.67	13.22	0.25	2.92			24.21
(7) S-2	S-2	1 E 2															
(a) B+C #2 - no dilution - vein			3.9	5.9	0.10	8.96	1.64	1.34	4.82	0.51	3.85	6.29	0.44	4.77	15.86		
(b) Mining - to March 26-72					0.10	5.55	1.77	0.96	1.65	0.77	3.61	10.27	0.48	2.48		17.61	
(c) Campbell - diluted vein				4.0	0.10	8.96	1.64	1.34	4.82	0.77	5.82	9.51	0.67	7.23			24.00
(8) S-3	—	1 E 8															
(a) B+C #2 - no dilution - vein			5.9	7.9	0.11	6.60	0.32	1.96	6.28	0.63	3.20	1.39	0.73	7.04	12.99		
(b) Campbell - diluted vein				5.9	0.11	6.60	0.32	1.96	6.28	0.85	4.29	1.86	0.98	9.42			17.40

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TABLE No. 10 CONT'D

COMPARISON OF NET SMELTER RETURNS
BRADINA EXPLORATIONS

BLOCK No	STOPE No	CAMPBELL BLOCK No	Vein Width Ft.	Stope Width Ft.	Au ozs/ton	Ag ozs/ton	Cu %	Pb %	Zn %	N.S.R.-$/ton-DILUTED ORE Au	Ag	Cu	Pb	Zn	N.S.R.-$-TOTALS-DILUTED ORE B+C	Mining	Campbell
(9) 5-4	5-8	2E5 (part)															
(a) B+C #1-diluted vein			6.15	8.15	0.03	9.16	0.55	1.03	7.15	0.17	5.95	3.19	0.52	10.73	20.56.		
(b) B+C #2-no dilution-vein			6.20	8.20	0.03	10.77	0.69	1.22	8.52	0.17	5.29	3.02	0.46	9.67	18.61		
(c) Mining-muck samples				6.90	0.03	5.11	1.12	1.02	6.35	0.17	3.32	6.50	0.51	9.53		20.03	
(d) Campbell-diluted vein				6.19	0.03	10.56	0.68	1.31	8.42	0.23	6.86	3.94	0.66	12.63			24.32
(10) 5-5	512	2E5 (part)															
(a) B+C-#1-diluted vein			5.58	7.58	0.05	5.71	0.58	0.19	6.70	0.38	3.71	3.36	0.09	10.05	17.59		
(b) B+C #2-no dilution-vein			5.10	7.10	0.04	7.58	0.85	0.23	9.79	0.28	3.54	3.54	0.08	10.54	17.98		
(c) Mining-muck samples				15.70	0.05	6.71	0.68	0.53	6.97	0.38	4.36	3.94	0.26	10.45		19.39	
(d) Campbell-diluted vein				6.19	0.03	10.56	0.68	1.31	8.42	0.23	6.86	3.94	0.66	12.63			24.32
(11) 5-6	516	2E7															
(a) B+C-#1-diluted vein			4.69	6.69	0.07	4.05	0.18	0.98	4.77	0.54	2.63	1.04	0.49	7.16	11.86.		
(b) Mining-muck samples				7.10	0.07	4.06	0.23	0.82	6.39	0.54	2.64	1.33	0.41	9.58.		14.50.	
(c) Campbell-diluted vein.				4.15	0.07	4.72	0.20	1.11	6.01	0.54	3.07	1.16	0.56	9.01			14.34.

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TABLE No 10 CONT'D — BRADINA EXPLORATIONS

Block No	Stope No	Campbell Block No	Vein Width Ft.	Stope Width Ft	Assay Au ozs/ton	Assay Ag ozs/ton	Assay Cu %	Assay Pb %	Assay Zn %	N.S.R. $/ton-Diluted Ore Au	Ag	Cu	Pb	Zn	N.S.R. $-Totals-Diluted Ore B+C	Mining	Campbell
(12) 5-7	518+520	2E8															
(a) B+C "1-diluted vein			4.68	6.68	0.03	4.07	0.21	1.60	6.56	0.23	2.64	1.22	0.80	9.84	14.73		
(b) B+C "2-no dilution-vein			5.30	7.30	0.04	5.93	0.31	2.12	9.31	0.23	2.80	1.31	0.77	10.13	15.24		
(c) Mining				7.75	0.03	3.03	0.15	1.30	3.95	0.23	1.97	0.87	0.65	5.93		9.65	
(d) Campbell				4.88	0.04	6.24	0.30	2.35	9.50	0.31	4.06	1.74	1.18	14.25			21.54
(13) 5-8	5-32	2E10 (Part)															
(a) B+C "1-diluted vein			2.9	4.90	0.15	9.85	0.07	1.00	4.77	1.16	6.40	0.41	0.50	7.15	15.62		
(b) B+C "2-no dilution-vein			3.0	5.00	0.25	12.18	0.12	2.26	11.21	1.17	4.75	0.43	0.68	10.09	17.12		
(c) Mining				5.00	0.15	6.08	0.15	0.94	5.13	1.16	3.95	0.87	0.47	7.70		14.15	
(d) Campbell				4.00	0.13	7.55	0.11	0.95	4.65	1.00	4.91	0.64	0.47	6.98			14.00
(14) 5-10	538	2E12															
(a) B+C "1-diluted vein			3.10	5.10	0.15	5.02	0.61	0.55	2.00	1.15	3.26	3.53	0.28	3.00	11.22		
(b) Mining				4.02	0.15	4.22	0.38	0.66	4.12	1.15	2.74	2.20	0.33	6.18		12.60	
(c) Campbell				4.00	0.08	7.42	0.83	0.93	3.63	0.62	4.82	4.81	0.46	5.44			16.15
TOTALS - corresponding B+C & mining															331.62	179.74	
avge - (21 & 12) " " "															$15.79	$14.98	
- corresponding - Campbell & mining - (10)																151.73	220.43
																15.17	22.04