

5304

92L/2E

BRALORNE RESOURCES LIMITED  
93L/2E  
REPORT ON BRADINA MINE DIAMOND  
DRILL PROGRAMME

5304

MARCH - MAY 1974  
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Department of  
Mines and Petroleum Resources  
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P. M. DAIGNAULT

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## SECTION I

### OBJECT

To confirm the down dip extension of the No. 3 Vein structure (below 2600 level) in areas of past mining activity.

### SCOPE

Diamond drilling from underground and surface drill sites to intersect the No. 3 Vein structure at a vertical depth of 150' to 300' below previously mined ore-shoots on the 2600 level.

## SECTION 2

### CONCLUSIONS

1. The diamond drill program confirmed the down dip extension of the No. 3 Vein, as previously indicated by Northgate drilling.
2. Vein Thickness is related to structural control as yet not fully understood.
3. Rock type may have an important effect on the nature of the fault (e. g. simple break, horsetail shear etc. ).
4. Metal ratios and absolute values vary with depth and along strike, e. g. in the southern part of the mine copper values tend to decrease, silver and zinc (and gold?) to increase with depth.

## SECTION 3

### RECOMMENDATIONS

A. A thorough compilation and review of all geological data should be undertaken which would form the basis of any future exploration programmes. This would involve:

1. Correlation of all diamond drill core.
2. Updating plans and cross-sections; geological and assay.
3. Determine more accurately the per cent of pulaskite dyke that may be expected in the mining of No. 3 Vein.
4. Determine, if possible, the rake of particular ore-shoots in No. 3 Vein to guide any future drilling programmes.
5. Assess other drill targets outside the limits of the mine workings e.g. diamond drill hole NG3 intersected the No. 3 Vein 1300' southeast of the furthest drift face and at a point approximately 1000' below the lowest mine level. Assays were 9.22 Ag., 0.04 Cu, 4.63 Pb and 10.97 Zn over a 20' intersection.

B. Evaluate past mining experience and present day costs to determine what grade of ore would be required to operate the mine at a profit.

## SECTION 4

### DISCUSSION

#### 4.1 Preamble

The project originally was designed to confirm the down dip extension of the No. 3 Vein structure at a vertical depth of 150' below the lowest (2600 level) mine development in three areas, namely:

- (a) between Sections 24700E - 25050E (North or No. 1 Cross-cut)
- (b) between Sections 26750E - 27100E (Middle or No. 2 Cross-cut)
- (c) between Sections 28100E - 28500E (South or No. 3 Cross-cut)

A cross-cut was designed for each area, from the end of which a fanned pattern of three down-dipping diamond drill holes were to be drilled, i. e. three holes per cross-cut for a total of nine holes. Each three hole fan was to cover a strike length of approximately 350 feet.

The above program was based on the recommendations of a report by the consulting firm of W. M. Sharp, P. Eng., North Vancouver, B. C.

While in the process of driving the No. 1 and 2 cross-cut the original program was changed with the purpose of intersecting the No. 3 Vein at a vertical depth of three hundred feet. This involved changing the diamond drill layout, where practicable, to reach the new target elevation.

Due to the assumed flat dip of the vein in the area of the No. 3 cross-cut, it was considered to be cheaper to drill the target zone from the surface rather than extend the length of the proposed cross-cut.

#### 4.2 Drilling Results -- General Comments

The No. 3 Vein at Bradina is typical of vein-filled fault structures. In

such structures the vein material tends to pinch and swell in thickness along strike and down dip. An increased vein thickness may be consistent for a short distance (a few feet) along strike and dip, or, in some instances for several hundreds of feet. This variation in vein thickness is usually associated with a change in strike direction and/or dip of the fault structure.

In addition the nature of the fault may change according to the rock type in which it occurs. In some rock types, the stress producing the fault may express itself as a single clean fracture; in others the same stress may result in a horse-tail type of shear zone or a brecciated stock-work, etc.

The above notes are relevant to the following discussion.

#### 4.3 Underground Drilling

##### 1. Drilling from No. 1 (North) Cross-cut \*

Three diamond drill holes were drilled in this area all of which intersected the No. 3 Vein.

The shallowest intersection (D.D.H. UG74-2) was at a depth of 155' below 2600' or adit level and gave values of 0.052 Au, 6.31 Ag, 1.00 Cu, 0.64 Pb, 9.70 Zn, over an estimated true width of 5.7'.

Two other drill holes, UG 74-1 and UG 74-3 intersected the vein at a vertical depth of 255' and 285' respectively. These two holes in conjunction with the previously drilled Northgate diamond drill hole NGV-4 intersected the vein at an average depth of 280' below 2600 level and cover a strike length of approximately 300 feet.

These three lowest intersections show a remarkable consistency in estimated true width and are quite similar in assay values; they have been used to calculate

\* all assay values in this report are expressed in ounces/ton for gold and silver and as per cent by weight for copper, lead and zinc.

"Drill Indicated Reserves" for Block C.

The estimated true width and assay values are as follows:

	<u>Width In Feet</u>	<u>Au Oz/T</u>	<u>Ag Oz/T</u>	<u>Cu %</u>	<u>Pb %</u>	<u>Zn %</u>
UG74-1	1.8'	0.010	4.18	1.10	0.33	5.40
UG74-3	1.7'	0.070	5.30	1.07	0.23	2.56
NGV-4	1.6'	Tr.	6.90	0.83	1.28	3.20

The results suggest an appreciable decrease in zinc content and a slight increase in copper; although there is inadequate information to determine whether or not this is a consistent trend.

Cross-sectional interpretation of D.D. Holes UG74-2 and 3 indicates a flattening of the vein dip from 70° to 55° below the -150 elevation. Extrapolating this information to the area of D.D.H. UG74-1 suggests a dip change from 70° to 45° - 50° below the -150 elevation.

It is suggested that the apparent pronounced narrowing of the vein (average estimated true width = 1.7') below the -150' horizon is directly related to the change in dip from approximately 70° (2600 level to -150+) to approximately 50° in the horizon of the lower three drill intersections.

2. Drilling from No. 2 Cross-cut

Three diamond drill holes were drilled from this cross-cut. The centre hole (UG74-5) intersected the No. 3 vein at a vertical distance of 290' below the 2600 level and the two wing holes (UG74-4 & 6) at a vertical distance of approximately 150'.

The estimated true widths and assay values are as follows:



	<u>Width In Feet</u>	<u>Au Oz/T</u>	<u>Ag Oz/T</u>	<u>Cu %</u>	<u>Pb %</u>	<u>Zn %</u>
UG74-4	8.0'	0.084	9.28	0.57	0.90	8.75
UG74-5	7.5'	0.172	6.07	0.06	2.30	12.97
UG74-6	6.5'	0.048	6.32	0.11	1.35	15.63

Strike length covered by the three intersections is approximately 400'.

The dip of the vein in the area drilled averages  $58^{\circ}$  -  $60^{\circ}$  which is consistent with the stoped area above the level.

These three holes have been used to calculate Drill Indicated Reserves in this area.

With increased depth there is an apparent decrease in copper and an increase in silver and zinc, particularly the latter.

Drill indicated widths average 7.3' (estimated true width) and are consistent with vein exposures in the drift.

#### 4.4 Surface Drilling

Three holes were drilled from surface namely, S74-1, S74-2 and S74-3 covering a strike length of approximately 500'.

Diamond drill holes S74-1 and S74-2 were drilled on the same bearing and were collared at declinations of  $77\frac{1}{4}^{\circ}$  and  $62\frac{1}{2}^{\circ}$  respectively.

S74-2 intersected what is interpreted to be the zone of the No. 3 vein at a vertical depth of approximately 500' below 2600 level. Mineralization was confined to narrow (less than 1') vein and alteration zones scattered over a length of approximately 27 feet. It appears that the No. 3 Vein in this area has feathered out into a series of narrow veinlets rather than following one single distinct structure. Assays are all of sub-ore grade.

Drill hole S74-1 encountered numerous minor (1-2") veinlets with sulphide mineralization none of which could be interpreted as the No. 3 Vein structure.

It is possible that the No. 3 Vein was not intersected due to:

- a) steepening of the vein structure, or
- b) the vein structure has been faulted in the area where it would normally be expected.

Drill hole S74-3 intersected the No. 3 Vein at a vertical depth of 315' below 2600 level approximately 500' south of Diamond Drill holes S74-1 and 2. Assay results were 0.320 Au, 9.68 Ag, 0.54 Cu, 0.18 Pb, 7.54 Zn over an estimated true width of 4.5'. This intersection in conjunction with the intersection in Diamond Drill Hole NGV 1 has been used to calculate Drill Indicated Ore for Block C.

## SECTION 5

### ORE RESERVES

#### 5.1 Tonnage and Grade Calculations: General Comments

Three categories of ore reserves have been used. Due to erratic distribution of metal values, closely spaced face and/or back sampling of development exposure is required to give an accurate grade estimate of any particular ore block.

Diamond drill hole intersections can give an indication only of relative values.

Similarly, tonnage calculation based on estimated true widths of diamond drill intersections must be regarded in a strongly conservative perspective.

Reliability of tonnage and grade estimates increase with density of drill intersections.

Tonnage Factor: The tonnage factors used is 10.

Dolmage, Campbell and Associates in their 1971 Ore Reserves report used a factor of 9.5 based on specific gravity determinations. Use of a more conservative figure seems justified due to inclusion of blocks of barren country rock in the vein.

Definitions of Reasonably Assured, Probable and Drill Indicated Ore:

#### Reasonably Assured

Fully exposed systematically sampled vein in drifts. The average width and grade are projected vertically for a minimum of 50' and further if drill information and geological interpretation warrant it.

#### Probable

Based on an arbitrary projection below Probable Ore of approximately 50 feet; more if there appears to be sufficient drill information or geological interpretation

to justify it. Width and grade of the vein assumed to be the same as the Probable Ore category.

Drill Indicated Ore:

Tonnage and grade based on the averaging of diamond drill hole intersections only. Area of influence is taken to be approximately 50 feet below and to the sides of drill intersections and directly below areas of Probable and/or Possible ore reserves.

Gross Tons

Tonnage calculated for a block using standard arithmetic principles.

Net Tons

Gross tons less one-third; allowance for the presence of pulaskite dyke. This is an arbitrary dilution factor and is deliberately taken on the high side in lieu of a more accurate figure that may be derived from a detailed analysis of previous stoping results.

BLOCK TONNAGE AND GRADE Below 2600 Level

	<u>Ore Category</u>	<u>Block</u>	<u>Net Tons</u>	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
I	Reasonably assured	2-2	2,460	0.04	4.40	0.77	0.89	4.22
		5-5	37,100	0.03	5.65	0.70	0.79	7.73
		9-9	6,540	0.02	7.98	0.51	0.99	6.36
		12-12	29,120	0.06	4.9	0.2	1.1	5.7
		15-15	1,600	0.11	6.29	0.03	0.80	4.11
		19-19	44,600	0.10	8.86	0.45	0.59	2.83
	Total		<u>121,420</u>	<u>0.06</u>	<u>6.8</u>	<u>0.5</u>	<u>0.8</u>	<u>5.2</u>
II	Probable	2-2	3,440	0.04	4.40	0.77	0.89	4.22
		5-5	16,970	0.03	5.65	0.70	0.79	7.73
		9-9	10,460	0.02	7.98	0.51	0.99	6.36
		15-15	1,440	0.11	6.29	0.03	0.80	4.11
		19-19	29,130	0.17	9.38	0.18	1.05	3.85
			Total		<u>61,440</u>	<u>0.10</u>	<u>7.76</u>	<u>0.41</u>
III	Drill Indicated	12-12	82,300	0.10	7.31	0.26	1.51	12.22
		19-19	21,390	0.35	14.3	0.42	1.59	9.46
			<u>Total</u>		<u>103,690</u>	<u>0.15</u>	<u>8.7</u>	<u>0.29</u>
	Total of I and II		182,860	0.07	7.1	0.5	0.9	5.3
	Total of I, II and III		286,550	0.10	7.7	0.4	1.1	7.6

BLOCK TONNAGE AND GRADE Below 2600 Level

<u>Ore Blocks as Calculated</u>	<u>Net Tons</u>	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Notes</u>
# Block 2-2 Reasonably assured	2,460	0.04	4.40	0.77	0.89	4.22	
Probable	3,440	0.04	4.40	0.77	0.89	4.22	
Block 5-5 Reasonably assured	37,100	0.03	5.65	0.70	0.79	7.73	
Probable	16,970	0.03	5.65	0.70	0.79	7.73	
* Drill indicated	9,280	0.03	5.40	1.01	0.59	3.76	* Sub-ore average Est. True Width = 1.7' Deleted in calculations
# Block 9-9 Reasonably assured	6,540	0.02	7.98	0.51	0.99	6.36	
Probable	10,460	0.02	7.98	0.51	0.99	6.36	
Block 12-12 Reasonably assured	29,120	0.06	4.9	0.2	1.1	5.7	
Drill indicated	82,300	0.10	7.31	0.26	1.51	12.22	
# Block 15-15 Reasonably assured	1,600	0.11	6.29	0.03	0.80	4.11	
Probable	1,440	0.11	6.29	0.03	0.80	4.11	
Block 19-19 Reasonably assured	44,600	0.10	8.86	0.45	0.59	2.83	
Probable	29,130	0.17	9.38	0.18	1.05	3.85	
Drill indicated	21,390	0.35	14.3	0.42	1.59	9.46	

# Grade and Total Net tonnage figures based on "Indicated Ore Block"  
Figures of W.M. Sharp, P. Eng.











BRADINA JOINT VENTURE

-- DIAMOND DRILL CORE - Assay Log --

Date 23.5.74

Hole No. UG74-4  
 Length 337'  
 Starting 2700 42'10"  
 Dip 29° 55'17"

Core Size AQ  
 Hole Started 2.5.74  
 Hole Finished 6.5.74  
 Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 23950.56 Easting 19598.62  
 Elevation 2612.77

Signature P.M. Daignault

Composite					
Length	Oz/ton Au	Oz/ton Ag	% Cu	% Pb	% Zn
12.0	.084	9.28	0.57	0.90	8.74

Description	Sample No.	From-To	Length	Oz/ton Au	Oz/ton Ag	% Cu	% Pb	% Zn
Volcanic altered, siliceous acid	4522	275.5-276.5	1.0	Trace	0.18	0.03	0.02	0.03
Volcanic	23	276.5-282.0	5.5	.020	0.44	0.08	0.16	1.35
Vein material, gouge and strongly altered country rock	24	282.0-286.0	4.0	.030	1.88	0.02	0.18	1.56
No. 3 Vein	25	286.0-293.0	7.0	.080	10.04	0.85	0.57	7.03
No. 3 Vein	26	293.0-298.0	5.0	.090	8.22	0.17	1.35	11.16
Pulaskite Dyke	27	298.0-300.5	2.5	Trace	0.16	0.01	0.04	0.27
Pulaskite + 6" vein	28	300.5-301.5	1.0	.030	2.08	0.44	0.08	0.17
Acid Volcanic	29	301.5-303.5	2.0	.020	0.40	0.02	0.25	0.24
Silicified & pyritic microdiorite	63	46.0-47.0	1.0	Trace	Trace	0.01	0.03	0.05
Silicified & pyritic acid volcanic	64	253.0-255.5	2.5	.020	0.14	0.01	0.30	0.80

BRADINA JOINT VENTURE

- DIAMOND DRILL CORE - Assay Log -

Date 21.5.74

Signature P.M. Daignault

Hole No. UG74-5  
 Length 338'  
 Clearing 228° 59' 00"  
 Dip 73° 47' 43"

Core Size AQ  
 Hole Started 12.5.74  
 Hole Finished 14.5.74  
 Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 23949.61 Easting 19601.42  
 Elevation 2609.86

Composite					
Length	Oz/ton Au	Oz/ton Ag	% Cu	% Pb	% Zn
10.5	.172	6.07	0.06	2.30	12.0

Description	Sample No.	From-To	Length	Oz/ton Au	Oz/ton Ag	% Cu	% Pb	% Zn
Silicified pyritic microdiorite	4535	285.0-290.0	5.0	.040	.16	.01	.05	.15
As above	36	290.0-298.0	8.0	.020	.14	.01	.05	.32
5" massive pyrite & black sphalerite	37	298.0-299.0	1.0	.030	2.58	.02	.12	.15
Silicified & brecciated	38	299.0-300.5	1.5	Trace	.10	.01	.04	.11
Gouge, Pulaskite Dyke & Microdiorite	39	300.5-307.0	6.5	.010	.12	.01	.14	.54
1/3 Vein mat. 2/3 country rock	40	307.0-309.0	2.0	.040	2.86	.03	1.84	11.13
Silicified, pyritic country rock	41	309.0-311.0	2.0	.020	.14	.01	.18	.70
No. 3 Vein	42	311.0-317.5	6.5	.260	8.28	.09	3.09	17.31
Wkly silicified country rock	43	317.5-319.0	1.5	.040	.20	.02	.39	1.30
Wkly silicified microdiorite Wkly min. Cpy	47	93.0- 94.0	1.0	.020	0.28	0.46	0.02	0.09
Strongly altered microdiorite	48	98.0-108.0	10.0	Trace	0.08	0.01	0.01	0.06
Narrow Qtz & carbonate stringer in microdiorite	49	108.0-119.0	11.0	Trace	0.16	.005	0.02	0.03
1/4" Vein material in microdiorite	50	119.0-120.0	1.0	Trace	0.06	0.01	0.03	0.14
1/4" Qtz bleb with sphalerite?	51	193.0-194.0	1.0	Trace	Trace	.005	0.01	0.01
1/4" vein type material	52	231.5-233.0	1.5	.020	0.84	0.02	0.53	3.21



## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE - Assay Log -

Date 30.5.74Signature P. M. Daignault

Hole No. S74-1 Core Size AO  
 Length 1452 Hole Started 22.4.74  
 Bearing 226° 14' 43" Hole Finished 30.4.74  
 Dip 77° Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 23539. - Easting 20710. -  
 Elevation 3112. -

Composite

Description	Sample No.	From-To	Length	Oz/ton			% Cu Pb Zn			Length	Oz/ton			% Cu Pb Zn		
				Au	Ag		Cu	Pb	Zn		Au	Ag		Cu	Pb	Zn
Silicified pyritic microdiorite	4565	12.5-18.0	5.5	0.02	0.26		0.01	0.08	0.24							
As above: Min. Py & sphalerite	66	18.0-19.5	1.5	0.03	0.40		0.03	0.73	1.56							
Porphyritic microdiorite	67	116.0-118.0	2.0	0.01	0.12		0.01	0.02	0.05							
Qtz. & carbonate veining	68	148.0-149.0	1.0	Tr.	0.08		0.01	0.03	0.43							
Minor Cpy	69	220.5-221.5	1.0	Tr.	0.06		0.02	0.02	0.04							
3" Vein mat.; pyrite & sphalerite	70	369.5-371.0	1.5	0.02	0.56		0.01	0.07	0.13							
Fractured microdiorite, siliceous	71	371.0-378.0	7.0	0.02	0.36		0.01	0.03	0.07							
and pyritic	72	378.0-388.0	10.0	0.02	0.08		0.01	0.04	0.07							
Siliceous & pyritic microdiorite	73	417.0-418.0	1.0	0.01	0.22		0.02	0.02	0.33							
Minor pyrite and siderite	74	427.5-428.5	1.0	Tr.	0.06		0.01	0.15	0.47							
Microdiorite; wkly veined with Qtz & carbonate	75	517.0-322.0	5.0	Tr.	0.20		0.01	0.07	0.31							
Representative microdiorite sample	76	523.0-524.0	1.0	Tr.	0.18		0.005	0.01	0.02							
Minor siderite & sphalerite	77	595.0-597.0	2.0	Tr.	0.50		0.01	0.09	1.86							
Silicified microdiorite	78	633.0-635.0	2.0	Tr.	0.10		0.01	0.13	1.01							
Microdiorite	79	773.0-774.0	1.0	Tr.	0.24		0.01	0.07	0.20							
Pyritic fractures in microdiorite	80	850.0-858.0	8.0	Tr.	0.18		0.01	0.01	0.38							
Qtz & siderite veining	81	858.0-865.5	7.5	Tr.	0.16		0.005	0.02	0.01							
Tuff breccia with pyritic Qtz-carbonate veining	82	1147.0-1149.0	2.0	Tr.	0.20		0.01	0.03	0.44							
Rep. dacite porphyry sample	83	1228.0-1238.0	10.0	Tr.	0.62		0.04	0.04	0.11							
Tuff breccia & dacite porphyry	84	1298.0-1300.0	2.0	Tr.	0.04		0.005	0.03	0.02							
Representative Tuff Breccia	85	1468.0-1478.0	10.0	Tr.	0.12		Tr.	0.02	0.02							



## BRADIRA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 29.4.74

Hole No. UG74-1  
 Length 392  
 Bearing 267°25'25"  
 Dip 54°33'32"

Core Size AQ  
 Hole Started 18.4.74  
 Hole Finished 21.4.74  
 Logged By P.M. Daignault

Collar Co-ordinates

Northing	Easting
25399.36	18111.55

Signature P.M. Daignault

Footage	Description	% Recovery
7-10.5	Feldspar Porphyry, chocolate brown - 50-60 percent sub-sub-euhedral phenocrysts (1/16")	100
11.5-16.0	Granular gouge sand size particles	100
16-22.5	Feldspar Porphyry - As above last 1½' strongly qtz. veined	100
22.5-25.0	Gouge; Granular particles in clay size matrix	100
25.0-30.5	Pulaskite Dyke pale cream-grey fine grained to aphanitic both contacts crushed	100
30.5-43.0	Altered Porphyritic Microdiorite weakly to strongly fractured Narrow (up to ½") gouge zones (1/2 ft.) At 40' few fleck cpy over ½"	100
43.0-47.0	As above 90% crushed rock - Granular gouge sections up to 6"	100
47.0-207.0	Mod-strongly altered porphyrite Microdiorite locally tuffaceous 135-141 strongly crushed and fractured 163.0-175 broken core. No evidence of faulting; mainly due to jointing. 189-198.5 crushed and fractured core particulary 194-198,5 at 215.5 - 6" fractured and crushed rock	100
47.0-207.0	Mod-strongly altered porphyritic microdiorite (cont'd)	100
207.0-272.0	Mod-strongly altered porphyritic and tuffaceous microdiorite locally as at 297-251 appears like lapilli tuff. with sub-angular fragments up to 3" in long dimension mottled buff and grey	100
272.0-286	Altered Feldspar porphyry	100



## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 29.4.74

Hole No. UG74-1  
 Length 392  
 Bearing 267° 25' 25"  
 Dip 54° 33' 32"

Core Size AQ Collar Co-ordinates  
 Northing Easting  
 Hole Started 18.4.74  
 Hole Finished 21.4.74 25399.36 18111.55  
 Logged By \_\_\_\_\_ Elevation 2608.09  
 P.M. Daignault

Signature \_\_\_\_\_

Footage	Description	% Recovery
286.-302	Similar to 27-272	100
302-305	Porphyritic Microdiorite; strongly altered (kaolinized) pale lemon green feldspars; euhedral to subhedral grain up to 1/8" in fine-grained chocolate brown to pale lemon green ground mass. Moderate brecciation and weak silicification. No observable sulphides.	100
305.-308.5	As above. Mod-strong brecciation; Angular to sub-rounded fragments (up to 1" size) in strongly silicified pale-grey porphyritic ground-mass with very fine grained disseminated sulphides (pyrite ?) At 305'-1 1/2" coarsely granular (up to 1/2" fragments) gouge.	100
308.5-311.0	As above. Finely disseminated pyrite and chalco pyrite observable B.P.F. = 6-7 Wkly leached (pitted) at 310.5'	100
311.0-313.5	As above. Higher percentage of sulphides. Some vein material Blebs of Cpy up to 1/2" at 312' B.P.F. = 6 Est. Grade; Approx. 1% Cu.	100
313.5-316.5	Pale grey, silicified, qtz. veined porphyritic microdiorite. Approx 90% of rock is silica Very fine-grained disseminated sulphides throughout.	100
316.5-320.0	As above 316.5-317.5 Intensely altered and pervasive very fine-grained sulphide mineralization. Occ. hair-line qtz-filled stringer	100
320-352	Mod-strongly porphyritic microdiorite with sections similar to	100



BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 27.5.74

Hole No. UG74-2

Core Size A0

Collar Co-ordinates

Northing	Easting
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Signature P.M. R.

Length 275'

Hole Started 22.4.74

Bearing 225°31'13"

Hole Finished 25.4.74

25396.65	18110.87
----------	----------

Dip 36° 12'47"

Logged By \_\_\_\_\_ Elevation 2609.51

P.M. Daignault

Footage	Description	% Recovery
0.5	Muck	
5-9.0'	Altered porphyritic microdiorite in contact with Pulaskite Dyke contact approx. 45°	100
9.0-23.0	Pulaskite Dyke maroon colour Aphanitic massive. At 23' contact is approx 70° to core axis	100
23.0-54.0	Altered porphyritic microdiorite locally tuffaceous 48-49 crushed	100
54.0-76.0	Crush zone 80% of core moderately-strongly crushed Fine gouge seams up to 6" Rock type as before	100
76.0-83.0	Strongly altered microdiorite, locally crushed. Locally tuffaceous	100
83.0-115.0	Pulaskite Dyke maroon colour - Locally foliated (approx 55° to core axis) due to alignment of (short 1/16") narrow amygdules (calcite) Contact at 83' is approx 70° Contact at 115' indefinite Last 6" strong chill margin; bleached white	100
115'-226	Altered porphyritic microdiorite crushed 115-116.5; 120'-122.5 139.0-140.0; 6" qtz. veining and wk. Py & sphalerite Rock is generally pale greyish-yellow - Locally tuffaceous particularly 202-226.0 100% core recovery At 162.5 1/2" qtz vein mineralized specular haematite & sphalerite	100

BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 27.5.74

Hole No. UG74-2  
 Length 275'  
 Bearing 225°31'13"  
 Dip 36°12'47"

Core Size AQ  
 Hole Started 22.4.74  
 Hole Finished 25.4.74  
 Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 25396.65  
 Easting 18110.87  
 Elevation 2609.51

Signature \_\_\_\_\_

Footage	Description	% Recovery
226.0-230.5	Mod. altered tuffaceous porphyritic microdiorite. Angular to sub-angular fragments	100
230.5-232.0	Broken core and grinding. Blue-grey qtz vein material with small amount of tuffaceous porphyritic microdiorite	70
232.0-245.0	Lapilli - Tuff (?) Sub angular to rounded fragments in porphyritic microdiorite ground mass	
245.0-252.0	As above; grading into tuffaceous porphyritic microdiorite	100
252.0-255.5	Vein material. Cyp, Py, and sphalerite with minor galena associated with blu-grey qtz. in buff coloured, locally wkly crenulated aphanitic gangue 254.5-255.5 = mainly country rock. Visual Estimate 1% Cu. 3-4% Zn /% Pb	100
255.5-258.0	Vein type material as before less sphalerite and more galena Estimated grade: 1% Cu 3% Zn 2% Pb	100
258.0-265.0	Strongly altered porphyritic microdiorite 1" granular gouge at 258.5' and 261.5'	95
226-265.0	See previous logging - Same rock-type except for vein material	100
265-275	As above Last 3' tuffaceous	-
275	End of hole	

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 25.5.74

Coliar Co-ordinates

Hole No. UG74-3  
 Length 352'  
 Bearing 230°46'05"  
 Dip 67°29'18"

Core Size AQ Northing 25397.63 Easting 18111.83  
 Hole Started 26.4.74  
 Hole Finished 30.4.74  
 Logged By P.M. Daignault Elevation 2607.75

Signature *P.M. Daignault*

Footage	Description	% Recovery
6'-12'	Feldspar porphyry medium brown, altered, 50% feldspar porphyries average 1/16" sub-euhedral.	100
12-13	Crush zone & gouge	100
13-15.5	Pulaskite Dyke Aphanitic massive pale creamy-grey At 15.5: 1½" gouge	100
15.5-88.0	Altered porphyritic micro-diorite 15.5-30.0 Locally strongly porphyrite (30% phenocrysts 50% subhedral cream coloured medium grey f. gr. groundmass Occ. narrow 1/8"-¼" qtz veinlet 16-19' Broken core strongly fractured 19.5-22.0 pink alteration 22-28.5 Strongly fractured with gouge seams (up to ½" thick) average 2/ft. 30.0-55.0 Mottled pink cream and grey locally highly porphyritic clots 55.0-88.0' Predominantly light grey Occ. narrow 1/8"-¼" fracture zone 60'-62' Strongly altered porphyritic microdiorite 60.1'-61.2' Strongly crushed rock (course granular gouge) 61.2-61.7 Qtz veining with mod. Cpy & Py mineralization 83.0-88.0: Approx. 25% crushed rock	100
88.0-96.0	Crush zone is course rounded to subangular fragments up to ½" in sand size matrix - Rock type as before	100
96.0-116.0	Altered porphyritic microdiorite 40% recovery 98-108.0 Broken core 10% recovery	40 10
116.0-138.0	As above. Full recovery - pale medium grey strongly altered	100

## BRADIKVA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 25.5.74

Collar Co-ordinates

Hole No. UG74-3Core Size AQ Northing Easting

Signature \_\_\_\_\_

Length 352'Hole Started 26.4.74Bearing 230° 46' 05"Hole Finished 30.4.74 25397.63 18111.83Dip 67° 29' 18"Logged By \_\_\_\_\_ Elevation 2607.75

P.M. Daignault

Footage	Description	% Recovery
	90% of core has been wkly and strongly crushed causing granular gouge zones up to 1' in length	
138.0-143.0	Microdiorite altered and porphyritic with locally tuffaceous structure - weak fracturing	100
143.0-158.0	Major fault zone	100
	143-148.0 50% strongly crushed	
	148-158.0 75% gouge	
158.0-162.0	Altered porphyritic microdiorite - medium grey	100
162.0-168.0	As above with portions of volcanic breccia. The entire length is moderately to strongly crushed	100
168.0-220.0	Altered porphyritic microdiorite	100
	Fractured 178-179	
	2" granular gouge at 182	
	188-193 locally crushed	
	196-202 Tuffaceous	
	202-205 Pale lemon green, strongly altered porphyritic microdiorite B.P.F. = 4	
	202.6-203.0: Qtz veining with minor Py Cpy & Sphalerite	
	205-206 As above	
	205.0-205.5 Crushed & sheared rock	
	205.5-205.7 Qtz veining with wk. Cpy min.	
	206-208 Pale lemon green, foliated, strongly altered, silicified porphyritic microdiorite. At 207.1 1/2" qtz stringer with weak Cpy min.	
220.0-224.	Fresh microdiorite porphyrite	100

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 25.5.74

Collar Co-ordinates

Hole No. UG74-3 Core Size AQ Northing 25397.63 Easting 18111.83  
 Length 352' Hole Started 25.4.74  
 Bearing 230° 46' 05" Hole Finished 30.4.74 Elevation 2607.75  
 Dip 67° 29' 18" Logged By P.M. Daignault

Signature \_\_\_\_\_

Footage	Description	% Recovery
224.-232.0	Altered porphyritic microdiorite 231-232 crushed	100
232-245.0	Microdiorite 80% wkly. altered 235-238 strongly sheared At 244.0 4" granular gouge	100
245-254.0	Microdiorite wkly altered 90% recovery Strong shearing 245-246 6 B.P.F.	90
254-262	Microdiorite 50% recovery	50
262.0-269	Altered porphyritic microdiorite Light brown to greenish grey	100
269.0-301.0	Microdiorite 80% relatively fresh locally porphyritic 3-6 B.P.F.	100
301.0-302.5	Strongly altered, wkly foliated, lemon green porphyritic microdiorite. Very wk. f. gr. Pyrite min. Narrow (1/16") qtz stringer (2/ft)	
302.5-304.5	Strongly altered, silicified, lemon green, porphyritic microdiorite At 303.0' 1" qtz vein with wk. Cpy min. 303.5'-304.0' 6" qtz vein material well min. Cpy & Py	
304.5-307.0	Strongly altered, foliated (approx. 60° to Core Axis) wkly leached porphyritic microdiorite	
307.0-308.5	50% vein material, strongly (approx. 5%) pyritic B.P.F. = 4	





BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 23.5.74

Hole No. UG74-4

Core Size AQ

Collar Co-ordinates

Signature P.M.D.

Length 337

Hole Started 2.5.74

Northing | Easting

Bearing 270° 42' 10"

Hole Finished 6.5.74

23950.56 | 19598.62

Dip 29° 55' 17"

Logged By \_\_\_\_\_

Elevation 2612.77

P.M. Daignault

Footage	Description	% Recovery
4.0'-76.0	Microdiorite: Relatively fresh medium-dark grey fine-gr. Locally dk. greenish-grey (chloritic)	100
	Sample No. 4563                      46.0'-47.0'	
	At 46.0':6" highly silicified and pyritic with narrow 1/8" -1/4" band of sphalerite	
	64.0'-69.0' : Strongly altered (kaolinized) particularly	
	66.0'-67.5'.      Pale greenish-grey	
76.0'-144.5'	Pulaskite Dyke. Identical to rock type in D.D.H UG74-5 (62.5'-93.0)	100
	At 76' contact approx 70° to Core Axis	
	At 144.5' contact approx 45° to Core Axis	
144.5-282.0'	Acid Volcanic? (Type A)	100
	Buff-grey to pale lemon green-grey. Fine-gr. equigranular, massive. Very uniform texture throughout	
	151.5-152.0 6" Pulaskite Dyke	
	At 207' - 1/4"-1/2" qtz. carbonate vein with a few flecks cpy	
	At 232' 1/16" galena stringer	
	275.5'-282' Very pale lemon green massive altered siliceous, weakly magnetiferous (?)	
	Small bleb galena at 275.8'	
	253.0-255.5 Silicified & pyritic. Sample No. 4564 (253.0'-255.5')	
282.0'-298.0'	# 3 Vein	
	282. - 286 95% core recovery - vein material, gouge, and strongly altered country rock	95
	282.0-282.7' Granular gouge on H/W. - Principle mineralization: Pyr., Sphalerite and haematite (?)	
	286.-293. Fully recovery	100
	All vein material except 288.0'-289.5'(pyritic country rock)	
	Principle mineralization: Sphalerite, Pyr & minor Galena	



BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 21.5.74

Hole No. UG74-5  
 Length 338'  
 Bearing 228° 59'00"  
 Dip 73° 47'43"

Core Size A0  
 Hole Started 12.5.74  
 Hole Finished 14.5.74  
 Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 23949.61  
 Easting 19601.42  
 Elevation 2609.86

Signature [Signature]

Footage	Description	% Recovery
0-62.5	Microdiorite	100
	Relatively fresh medium-grey to dk. grey, fine grained to aphanitic and glassy, massive. Locally dark greenish-grey	
	3.B.P.F 12'-22' (G.B.P.F)	
	Very occasional hair line fracture filled with qtz.	
62.5-93.0	Pulaskite Dyke (?)	100
	Medium grey to greyish-buff, fine grained to locally aphanitic.	
	5-10% amygdules (Av 1/16") up to 1/4" are of quartz and/or carbonate, rounded to lenticular in shape.	
	Occasional bright green fleck	
	Contact at 62.5' is approx. 80° to Core Axis	
	Contact at 93.0' is approx 40° to Core Axis	
93.0-145.0	Microdiorite. 100% recovery - fine-grained, mod-strong alteration	100
	increased qtz veining and carbonate veining	
	At 93.0': 0.4' of silicified rock wkly min. Cpy and minor F. gr. Py.	
	93.0-125.0 Mod-strong alteration	
	110-125.0 Average of 1/ft. narrow qtz and carbonate stringers at 15° - 60° to Core Axis (majority approx 40°)	
	At 113.0': 1/4" qtz vein with smear of gouge 45° to Core Axis	
	At 119.2': 1/2" vein material (mainly cream coloured carbonate; siderite?) at 30° to Core Axis	
	At 123': 1/8" carbonate vein (45° to Core Axis)	
	125.0-145.0' Wkly altered, medium grey, F. g <sup>v</sup> . microdiorite.	
	Occasional hair-line fracture with qtz and/or carbonate fill	
	At 139.3' 1/8" - 1/4" qtz P carbonate vein with few small flecks	
	Cpy & Py	
145.0-193	Microdiorite, F. gr. massive, locally wkly porphyritic (1/32"-1/16" sub-hedral grains)	100
	Light to moderate brownish-grey colour. 2 B.P.F.	

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 21.5.74Hole No. UG74-5Core Size AQ

Collar Co-ordinates

Northing | Easting

Signature \_\_\_\_\_

Length 338'Hole Started 12.5.74Bearing 228° 59'00"Hole Finished 14.5.74 23949.61 19601.42Dip 73° 47'43"Logged By \_\_\_\_\_ Elevation 2609.86

P.M. Daignault

Footage	Description	% Recovery
	At 193' Small (½") qtz bleb with minor ruby sphalerite or haematite	
	At 195': Flow banding (?) 10°-30° to Core Axis	
193-285	Microdiorite massive, F. gr., moderate-strong alteration, pale greenish grey with occ. small (1/32"-1/16") anhedral-subhedral porphyry	100
	1-2 B.P.F.	
	228-234 Wkly foliated due to hair-line fracturing	
	At 231.5 ½" vein-type material i.e. 1/8" cream siderite bounded by colliform - structured chocolate brown shholerite	
	232.0-233.0 Strong silicification	
	263.0-285.0 Increased fracturing. (Average 1/Ft) and locally silicified and wkly pyritic	
	At 271": 1/8" gouge - filled fracture bordered by ½" massive f. gr. pyrite. Fractures are randomly oriented (10°-80° to Core Axis). Fractures are healed and filled with white to pale grey qtz and/or cream-coloured carbonate.	
285.0-290.	Microdiorite altered f. gr. pale greyish-green, silicified and pyritic	100
290-298	As above	100
298-299	5" Massive pyrite and black sphalerite?	100
299-300.5	Strongly silicified and moderately brecciated pyritic core ½" gouge @ 299.5'	100
300.5-301.5	Granular Gouge	100
301.5-303.5	Pale greyish-cream aphanitic with pale lemon-green flecks (1/16") Pulaskite Dyke?	100



BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 22.5.74

Hole No. UG74-6

Core Size AO

Collar Co-ordinates

Northing	Easting
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Signature P.M.O.

Length 327

Hole Started 7.5.74

23942.35	19602.18
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Bearing 169° 54' 40"

Hole Finished 2.5.74

Elevation 2610.60

Dip \* 31° 19'

Logged By \_\_\_\_\_  
P.M. Daignault

Footage	Description	% Recovery
0-4	Casing	
	Microdiorite	
4-127	Same general description as 0'-62.5' in D.D.H. UG74-5	100
	4-28' Dk grey - greenish grey massive f.gr. glassy micro-diorite	
	28'-43' Wk. to strong alteration. Dk. to light greenish-grey.	
	Wkly chloritic	
	28-30 Strongly altered and fractured.	
	No pronounced silicification	
	Fractures at 30' are 60° to Core Axis	
	At 36' Silicified and fractured with 1/8" gouge. 70° to Core Axis	
	At 40' 1/4" dk. grey qtz vein min. f. gr.	
	Py & haematite	
	At 47' 3/4" qtz & cream coloured - carbonate vein wkly min	
	Py & Cpy	
	54-77' Occ. narrow (up to 2") band of epidote-rich approx every 1-2 ft. Core has slightly mottled appearance adjacent to epidote bands. Generally weak to mod. alteration	
	77-90 Locally mottled. Dk. grey and fine-grained.	
	92-97 Wkly developed dk. red mineralization (finely disseminated and on hair-line fractures) Mod. Silicification and qtz veining	
	At 92.5' ruby zinc(?) associated with narrow 1/8" qtz vein with minor f. gr. pyrite.	
	99.5-100' 6" crush zone; Strong-mod silicification. Hair-line fractures with red mineralization	
	100'-122' Mainly dk. grey, f. gr., Wkly altered microdiorite. Locally mottled appearance in narrow alteration zones.	
	<u>NOTE</u>	
	* Hole surveyed after removing machine. Use dip (34 1/2°) of original layout for plotting	

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 22.5.74

Collar Co-ordinates

Hole No. UG74-6Core Size A0

Northing

Easting

Signature \_\_\_\_\_

Length 327Hole Started 7.5.7423942.35 19602.18Bearing 169° 54' 40"Hole Finished 2.5.74Elevation 2610.60Dip 31° 19'

Logged By \_\_\_\_\_

P.M. Daignault

Footage	Description	% Recovery
122-127	Flow top brecciated microdiorite(?) Angular to rounded fragments (up to 1½") in fine grained matrix. Pervasive chloritization and numerous hair-line fractures filled with qtz and/or carbonate. Some rounded fragments near contact at 122' are possibly included fragments of the following rock type. Core broken with minor gouge at contact. Contact possibly 15° to Core Axis	100
127-214	Same as 62.5'-93.0' in D.D. Hole UG74-5 (Pulaskite Dyke) Medium grey to light brown, fine grained, amygduloidal, massive creamy-white to white amygdules (silica and/or carbonate) Contact at 214.0' approx. 60° to Core Axis 208.5'-210' = microdiorite with contacts 40° to Core Axis	100
214-248.5	Microdiorite; Wk - mod alteration Dk. grey to greenish grey. Massive and fine grained. Locally has felted appearance as at 227'-231' with minor amount of deep red mineral disseminated and on hair-line fracture. Brecciated and healed at 230'-233' and 235'-237'	100
248.5'-282.5'	Strongly altered pale grey to creamy grey microdiorite Locally silicified and pyritic At 255.5' 1" crush zone 70° to Core Axis. 273'-277' Strongly silicified and pyritic 278.5-282.5 Rock strongly fractured with portions of granular gouge up to 6"	100
282.5'-284'	Pulaskite Dyke As before; well developed cream coloured chill margin 4" at either end. Centre is greyish brown with numerous qtz amygdules 1/16"-½" long Contacts 70° to Core Axis	100

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 22.5.74

Hole No. UG74-6  
 Length 327  
 Bearing 169° 54' 40"  
 Dip 31° 19'

Core Size AQ  
 Hole Started 7.5.74  
 Hole Finished 2.5.74  
 Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 23942.35 Easting 19602.18  
 Elevation 2610.60

Signature \_\_\_\_\_

Footage	Description	% Recovery
284-287	Silicified and strongly altered microdiorite	100
	284-285.5 Highly siliceous - First 6" contains Py., black sphalerite and minor galena	
	½" crushed rock at 285.5	
287-291	Altered strongly silicified? with f.gr. disseminated pyrite (5% + ) Approaching vein wkly-mod foliation developed due to hair-line sinuous fractures (60° to Core Axis)	100
291-295	Vein material silicified brecciated country rock Locally vuggy. Heavily min. pyrite (10% +) Sphalerite minor galena	100
295-297	As above Strongly min sphalerite & galena	100
297-300	As above Strongly leached Mainly sphalerite and minor galena and pyrite	100
300-303	Highly silicified pyritic (5%+) country rock. Locally wk sphalerite min. slight brecciation mainly within one foot of vein	100
303-327	Strongly altered light greenish grey fine grained, locally porphyritic At 327' 1½" qtz vein with specular haematite.	100
327	End of hole	



## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 30.5.74

Hole No. S74-1  
 Length 1452  
 Bearing 226° 14' 43"  
 Dip 77½°

Core Size AQ  
 Hole Started 22.4.74  
 Hole Finished 30.4.74  
 Logged By P.M. Daignault

Collar Co-ordinates  
 Northing 23539.-  
 Easting 20710.-  
 Elevation 3112.-

Signature P.M. D

Footage	Description	% Recovery
6-19.5	Microdiorite Altered greenish grey to medium grey	100
	6-12.5 porphyritic (1/32") fine grained matrix	
	12.5-19.5 f.gr glassy silicified and pyritic	
	(f.gr. disseminations). Broken core and ¼" gouge at 12.5'	
	18.0-19.5 Min Py and sphalerite	
19.5-32.0	Pulaskite Dyke	100
	Dark chocolate brown f.gr. to aphanitic with locally up to	
	5% silica amygdules (1/8" long axis) Contacts @ 19.5' (40°)	
	and 32' (60°)	
32.0-49.0	Microdiorite pale greenish grey Mod fracturing to locally	100
	strong (3/ft) 32-40 mod - wk brecciation (tectonic breccia)	
	with hair-line fractures filled with carbonate	
49.0-153.0	Altered porphyritic microdiorite (mod-strong alteration)	100
	Cream coloured to light lemon green-grey 100% core recovery	
	1.2 B.P.F.	
	At 148 sheared with Qtz and carbonate veining	
153-206	Porphyritic microdiorite Wk-mod alteration med-dk grey,	100
	locally greenish grey Hair-line healed fractures with silica	
	filling	
206-221.5	Microdiorite porphyritic strongly altered light grey	100
	Sheared 214-216 with two 2" gouge seams @ 214' & 215'	
	Crushed at 219' over 6" At 220.5 few flecks Cpy	
221.5-225	Trachyte Dyke Dk. brownish grey to brown f. gr aphanitic	100
	with lath-like subrounded porphyric (up to ¼") constituting	
	up to 40% of rock. Lathes are pale greyish-white	
	Contact at 221.5 is 40°; at 225' (50°)	

BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 30.5.74

Collar Co-ordinates

Hole No. S74-1  
 Length 1452  
 Bearing 226° 14'43"  
 Dip 77½°

Core Size AQ      Northing \_\_\_\_\_  
 Hole Started 22.4.74      Easting \_\_\_\_\_  
 Hole Finished 30.4.74

Signature \_\_\_\_\_

Logged By \_\_\_\_\_ Elevation \_\_\_\_\_  
 P.M. Daignault

Footage	Description	% Recovery
225-233	Microdiorite med alteration, porphyritic greyish green	100
233.0-247.5	Pulaskite Dyke As before Contact @ 233' is 75°; at 247.5' (65°)	100
247.5-273	Microdiorite 250-251.5 Pulaskite Dyke; pale greyish-white Contacts 40° and 25° to Core Axis	100
273-303	Pulaskite Dyke Contacts 35° & 40° to Core Axis	100
303-368	Altered porphyritic microdiorite pale-grey to creamy-yellow 317-322: Fractured & wkly silicified wkly veined with qtz carbonate 354-368 Low-angle (20°-40°) Fracture (average 1/Ft) some with smear of gouge	100
368-388	Microdiorite f. gr pale grey siliceous & pyritic locally porphyritic locally wkly brecciated Low angle healed fractures particularly 370'-378' 3" vein type material at 370' 10%+ pyrite plus siderite contacts 30°-15° to Core Axis At 385 ¼" gouge with minor siderite 35° to Core Axis	100
388-437	Microdiorite strongly altered locally wkly pyritic & siliceous Pale grey to bleached; particularly 393'-404' 417-438 siliceous & pyritic - gouge coated fracture @ 417.8 60° to Core Axis At 427.8: ½" gouge (50° to Core) with minor pyrite & siderite	100

## BRADINA JOINT VENTURE

## - DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 30.5.74Hole No. S74-1  
Length 1452  
Bearing 226° 14' 43"  
Dip 77½°Core Size AQ Collar Co-ordinates  
Northing Easting  
Hole Started 22.4.74  
Hole Finished 30.4.74  
Logged By P.M. Daignault Elevation \_\_\_\_\_

Signature \_\_\_\_\_

Footage	Description	% Recovery
437.0-468.0	Microdiorite; Very strongly altered; feldspar phenocrysts completely kaolinized; core has slightly pitted appearance Talcose fracture surfaces (low angle) Light cream colour Qtz filled hair-line fractures throughout	100
468-518	Microdiorite porphyritic strongly altered Wkly pyritic. Light grey to cream coloured Very occasional (1/10') narrow qtz & carbonate stringer between 483 & 498	100
518.0-690	Microdiorite; as above 518-533 Greyish-cream colour to locally pale-grey Increasingly pyritic; f. gr. pyrite majority of which is confined to dark grey clots giving core mottled appearance Representative sample 523.0-524.0 533-548 As above. More greyish in colour 2" qtz vein (pyritic) 45° to core at 540' 548-625 Strong - mod alteration Locally strongly porphyritic Light medium grey 595-597 silicified & wkly pyritic At 595.5 1½" crushed rock & gouge, minor siderite At 596.6 ½" vein material min. sphalerite and siderite Microdiorite 626-634.5 tuffaceous 633-635 silicified 3 fractures 30° to Core min Py occ. fleck Sph. ½" gouge @ 636.5 45° to core 635-690. Medium grey wk-mod alteration 1 B.P.F.	100
690-724	Pulaskite Dyke amygduloidal Contact at 690 low angle and sinuous 8" chill margin - Contact at 724 approx. 80° ½" gouge	100

BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 30.5.74

Hole No. S74-1  
 Length 1452  
 Bearing 226° 14'43"  
 Dip 77½°

Core Size A0 Collar Co-ordinates  
 Northing            Easting             
 Hole Started 22.4.74  
 Hole Finished 30.4.74  
 Logged By            Elevation           

Signature           

P.M. Daignault

Footage	Description	% Recovery
724.0-746	Microdiorite medium grey wk-mod alteration	100
746-770	As above but tuffaceous mottled grey & buff	100
770-867	Microdiorite pale-medium grey Low angle (approx. 15°) narrow (¼") siderite vein with occ. fleck sphalerite at 783' 814-867 Mod-strong alteration. Pale-medium grey. Locally silicified. Occ. narrow (1/16") siderite vein 815-820 sheared & locally crushed microdiorite 849.5-867 - Low angle (5-15°) pyritic fractures qtz and siderite(?) veining Leached core. Healed tectonic(?) breccia locally. One inch gypsum veins at 850', 856' and vuggy gypsum (½") at 863	100
867-966	Altered tuffaceous porphyritic microdiorite Sub-angular to rounded fragments of light-grey porphyritic microdiorite in f. gr. - aphanitic siliceous matrix (medium grey) Fragments up to 1½" diameter Average ¼"-½" Locally wkly (1-2%) f.gr. dissem. pyritic 888-890 pale grey tuffaceous chert; also from 898.5-899.0 At 966' ½" gypsum (selenite?) vein 20° to core	100
966-1133	Microdiorite: Type (A) Massive light grey moderately altered (pale greenish grey where more strongly altered) porphyritic (1/32"-1/16" white sub-hedral feldspar) in f. gr. matrix of equigranular anhedral light grey quartz. Disseminated obiquitous f.gr. Py constitutes approx 5% of rock Porphyries constitute 30-40% of rock 1040-1053 foliation 45-60° to Core Axis; flow banding(?). At 1053 4" subangular Xenolith of Type A Tuff Breccia included.	100

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 30.5.74Hole No. S74-1  
Length 1452  
Bearing 226° 14' 43"  
Dip 77½°Core Size AO  
Hole Started 22.4.74  
Hole Finished 30.4.74  
Logged By P.M. Daignault  
Elevation \_\_\_\_\_Collar Co-ordinates  
Northing \_\_\_\_\_  
Easting \_\_\_\_\_

Signature \_\_\_\_\_

Footage	Description	% Recovery
	1043.5-1045 Tuffaceous	
	At 1060' 4" Type A Tuff Breccia xenolith	
	1093-1107 Tuffaceous microdiorite	
	1097-1097.5 Crushed & sheared rock Shearing 30°-50° to core	
1133-1186	Tuffaceous microdiorite	100
	Locally tuff breccia as at 1168-1173	
	1147-1149 Tuff breccia with pyritic qtz-carbonate veining & minor black sphalerite min.	
1186-1340	Dacite porphyry (Type A)	100
	40% altered (kaolinized) sub hedral-euhedral white feldspar phenocrysts (1/16"-1/32" locally up to 1/8" diameter)	
	pheno's tend to be more equidimensional than in the porphyritic microdiorite. Groundmass is medium to dark grey amorphous aphanitic - fine grained mosaic of qtz & bleached chlorite? 5% interstitial fine grained pyritic	
	1201-1220 Very strong alteration	
	Occ. talc coated fracture	
	1218-1299 Strong alteration. Speckled with disseminated pin-head flecks of brick-red soft mineral (haematite ?)	
	8" Tuff Breccia (Type A) at 1278.5 and 1284.5	
	At 1299' 4" Tuff Breccia (Type A) in sharp contact with Dacite porphyry (approx 55° to Core Axis)	
	1299.3-1301.5 crushed rock and granular gouge. Contacts 65°-75° to Core Axis	
	1303-1304.5 Heavily min. with diss. dark black hard mineral (tourmaline)?; local concentrations & disseminations to 1333	
	1337-1340 Inclusions of tuff breccia (Type A) in Dacite Porphyry	



## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 31.5.74

Collar Co-ordinates

Hole No. S74-2Core Size A0

Northing

Easting

Signature P.M. DaignaultLength 1267Hole Started 1.5.7423538.-20709.-Bearing 226° 14' 43"Hole Finished 5.5.743112.-Dip 62½°

Logged By \_\_\_\_\_

Elevation \_\_\_\_\_

P.M. Daignault

Footage	Description	% Recovery
0-42	Microdiorite. Mainly pale cream colour; locally becoming pale greenish-grey to medium grey	100
	At 12.5 2" grey qtz vein pyritic with minor carbonate; 45° to core axis. Microdiorite is f. gr. and porphyritic texture is locally apparent	
	At 13.5 1" vein with siderite sphalerite (honey) and galena	
42-53	Pulaskite Dyke. Pale grey, locally wine coloured	100
	Contact at 42 broken with minor ¼" (?) gouge; at 53 1"-3" crushed rock and gouge; contact approx 15° to core axis	
53-793	Microdiorite mod-strong alteration, porphyritic pale grey to greyish cream colour	100
	53-83 Pyritic (f. gr., dissem. up to 5%) and occ. talc coated fracture surface	
	100-123 pale greyish green l B.P.F.	
	123-178 greenish grey	
	178-191 Mod. alteration med-dark greenish grey	
	191-196.5 pale greenish grey with 1" qtz stringer 35° to core at 194'	
	196.5-203 med-dk. grey	
	At 203' 5" healed breccia	
	203.5-209. light grey grading into med-dk. grey at 209	
	216-220 Light grey f. gr. to aphanitic. Sharp contact (65°) with darker band at 220'	
	From 220-226 increasingly paler. One bright green fleck (1/16") at 224'	
	226-253 Dark grey wk. alteration	
	253-273 Strong alteration. Creamy-yellow colour	
	At 268.3 ½" granular gouge 70° to core axis	
	268-269.5 pyritic with qtz & siderite(?) at 269.1' (½")	
	273-316 Mainly wk-mod. altered medium-dk. grey porphyritic microdiorite	

## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 31.5.74

Hole No. S74-2  
 Length 1267  
 Bearing 226° 14' 43"  
 Dip 62½°

Core Size A0  
 Hole Started 1.5.74  
 Hole Finished 5.5.74  
 Logged By \_\_\_\_\_

Cóliar Co-ordinates  
 Northing \_\_\_\_\_  
 Easting \_\_\_\_\_  
 Elevation \_\_\_\_\_

Signature \_\_\_\_\_

P.M. Daignault

Footage	Description	% Recovery
	316.-322.5 Pulaskite Dyke	
	¼" gouge either end	
	Contacts at 316' is approx. 35°	
	322.5-336 Mod-strong alteration - Talcose at 333'	
	336'-355' Wk-mod alteration. Medium-dk. grey	
	355-380' Strong alteration	
	380-392' Wk-mod 1' Broken core at 388'	
	392-409 Strong Numerous narrow qtz veins	
	409-413' Wk Dark grey	
	413-483 Strongly altered greyish cream colour with section light grey	
	At 429.5' 2" vein (qtz & siderite) with a few coarse flecks of galena. 45° to core axis	
	1" siliceous vein at 436.5 approx 70° to core	
	436.5-439.5 Broken core due to strong jointing	
	At 454' ¼" white calcite vein 60° to core axis	
	At 484' 1½" gouge 40° to core axis	
	487-488.5 Tuff breccia	
	483-566 Light med. grey mod. altered porphyritic microdiorite	
	509.5-515 Med-dk. grey 2" tuff breccia at 524	
	566-580 Tuffaceous porphyritic microdiorite - Light-medium grey	
	580-652 Light-medium grey Mod. altered massive porphyritic microdiorite. Latter half light grey with pale lemon-green caste. Last 10' locally wkly tuffaceous. One break/ft.	
	652-661 Med-dk. grey wkly. altered	
	661-693 Alternating med-grey and light brownish buff bands of porphyritic microdiorite. Locally wk. foliation (flow banding?)	
	At 40° - 60° to core axis	
	693-709 Med. grey to greenish grey tuffaceous	
	709-725 Med. grey porphyritic.	
	Noticeably pyritic (5% + f.gr., disseminated between 719-725	



BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 31.5.74

Hole No. S74-2  
 Length 1267  
 Bearing 226° 14'43"  
 Dip 62½°

Core Size A0  
 Hole Started 1.5.74  
 Hole Finished 5.5.74  
 Logged By \_\_\_\_\_  
 P.M. Daignault

Collar Co-ordinates

Northing \_\_\_\_\_ Easting \_\_\_\_\_

Signature \_\_\_\_\_

Footage	Description	% Recovery
	At 723' 4" pyrtific qtz vein (30°- 40° to core axis bordered on bottom side by ½" vein (qtz & siderite) Min. Py & honey sphalerite	
	725-741 Lapilli(?) Tuff Mottled creamy yellow . Fragments in light grey porphyritic matrix	
	At 746' ½" gouge approx 40° to core axis	
	741-758 Massive medium-dk. grey wkly altered porphyritic microdiorite	
	758-793 Wk - strongly altered porphyritic microdiorite More strongly altered portions have disseminated pin-head size flecks of haematite(?)	
	766-768 Wkly silicified & mod pyritic	
	At 767 5" containing narrow (1/16"-½") ribbon, discontinuous siderite veins	
793-832	Pulaskite Dyke Light medium grey. Amygduloidal Contacts approx 70-75° to core axis	100
832-865	Microdiorite Type A 840-41½ tuffaceous 832-865 med. grey	100
865-903	Microdiorite Light-med grey 865-875 Mottled light grey and buff 893-903 Tuffaceous	100
903 - 1132	Dacite porphyry 911-916 Tuffaceous 923-924 Pulaskite Dyke. Pale grey to off-white Contacts approx 45° to core axis One foot alteration zone either side	100

BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 31.5.74

Hole No. S74-2  
 Length 1267  
 Bearing 226° 14'43"  
 Dip 62½°

Core Size AQ  
 Hole Started 1.5.74  
 Hole Finished 5.5.74  
 Logged By P.M. Daignault  
 Elevation \_\_\_\_\_

Cóliar Co-ordinates  
 Northing \_\_\_\_\_  
 Easting \_\_\_\_\_

Signature \_\_\_\_\_

Footage	Description	% Recovery
	At 929' ½" white calcite vein 70° to core axis	
	939-948 Locally tuffaceous and 6" at 963'	
	At 961.5' 6" broken core	
	6" tuff breccia @ 983'	
	Tuffaceous 996 (1½')	
	998-1061 Locally tuffaceous. Pale grey than typical dacite porphyry. Strong alteration has obscured porphyritic texture	
	1012.7-1013.9 = 1" vein heavily min. course grained galena and honey coloured sphalerite	
	Vein is 10° to core axis	
	1042-1046 Tuffaceous. Dacite porphyry (Type A)	
	1061-1118	
	More typically Dacite Porphyry - mod-strong alteration	
	1076½-1079 Tuffaceous	
	At 1109' 1/8" siderite fracture (70° to core) and 1/16" siderite fracture at 1108.5	
	At 1114.0 ¼"-½" stringer min sphalerite, and galena in siderite	
	1115.0-1118.5 Siliceous & pyritic	
	At 1119.5' 4" crushed rock & gouge - 65° to core axis	
	At 1123' 2" gouge	
	1124-1132.0 Typical dacite porphyry	
	1132-1139 Broken core. Strongly qtz. veined. Strong alteration	
	At 1134.5' ½" siderite min sphalerite approx. 75°-80° to core axis	
1135-1147.5	Pale-medium greyish green. Massive to locally foliated particularly near contacts	100
	Equigranular pyritic (approx. 5% as fine grained disseminations)	
	Siliceous chloritized volcanic	
	Foliation 55° to core axis	



## BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 2.6.74

Hole No. S74-3 Core Size A0 Collar Co-ordinates  
 Length 1148 Hole Started 8.5.74 Northing 23540.- Easting 20728.-  
 Bearing 180° 23'36" Hole Finished 13.5.74  
 Dip 49-3/4° Logged By \_\_\_\_\_ Elevation 3108.-

Signature P.M. D.

P.M. Daignault

Footage	Description	% Recovery
0- 410	Altered fine grained porphyritic microdiorite	100
	Cream coloured to light grey - Locally pyritic	
	1/4" carbonate vein (siderite) at 30' - 55° to core axis	
	31.5-32 Strong pyritic min (30%) + minor siderite	
	At 33' 1/8" gouge 60° to core	
	At 96 1/2"qtz & siderite vein with few flecks sphalerite galena. 45° to core	
	102-116 pale lemon-green	
	116-133 Narrow 1/16"-1/8" siderite & stringers throughout (1-2/ft)	
	193-197 Strong qtz veining ~ sub-parallel to core	
	210-213 Porphyritic trachyte dyke contacts 60° & 70° to core axis	
	234-239 Porphyritic trachyte dyke contacts 60° & 45° to core axis	
	2" at 239 strongly sheared	
	263-298 Alternating light & darker bands give foliated appearance to core approx. 80° to core axis	
	336-338 & 339-341 crushed core with patches of gouge	
	Contact of shear at 336' is 15° core axis	
	360-361 Broken core -	
	370-372 crushed core	
	Granular gouge @ 371.5 (4")	
	398-402 Banded sub-parallel to core	
	At 410.5, two 1/2" siderite stringers min. sphalerite, minor galena & Py.	
	20-35° to core axis	
410-620	Microdiorite Type A	100
	410-515 Wk-mod alteration med. grey. Remarkably uniform	
	1/4" gouge at 443'. 55° to core axis	
	515-535 Greyish cream mod-strong alteration	

BRADINA JOINT VENTURE

- DIAMOND DRILL CORE GEOLOGICAL LOG -

Date 2.6.74

Hole No. S74-3  
 Length 1148  
 Bearing 180° 23' 36"  
 Dip 49-3/4°

Core Size AQ Collar Co-ordinates  
 Hole Started 8.5.74 Northing Easting  
 Hole Finished 13.5.74  
 Logged By \_\_\_\_\_ Elevation \_\_\_\_\_  
 P.M. Daignault

Signature \_\_\_\_\_

Footage	Description	% Recovery
	533-618 Wk-mod alteration. Med. grey	
	At 558' 1/8" gouge 50° to core axis	
	618-638 Mod-strong alteration. Locally silicified	
	Occ. narrow siderite vein	
	At 619' 1/2" qtz & siderite vein. Min. sphalerite	
	65° to core axis	
	At 619 1/2' 1/4"-1/2" gouge. 60° to core	
620-743	Dacite porphyry Type (A)	100
	Very pale lemon-greenish grey. Strongly altered	
	692-702 Slightly pitted surface with haemetite specks	
743-752.5	Tuff breccia (Type A)? Contact approx. 60° & 40°	100
752.5-760	Dacite porphyry Type (A)? Contact at 760' approx. 35° to core	100
760-800	Tuff breccia Type(A)? Contact at 800' approx. 35°	100
800-956	Dacite porphyry (Type A)	100
	At 808' 1/2" pyritic gouge	
	30° to core axis	
	808-870 Strong alteration. Locally talcose	
	867-867 1/2: 1/2" gouge coated fracture approx 80° to core	
	At 870' 6" pyritic & sheared @ 60° to core	
	910'-921 Occ. large (up to 3") fragment about 1/ft	
	916-917 Tuff breccia	
956-985	Tuff Breccia Pale grey. Smaller fragments than usual	100
985-1016	Pulaskite Dyke	100
	Contact @ 985 approx 65° - Contact @ 1016 approx. 65°	



# BRALORNE RESOURCES LIMITED

BRADINA MINE

BRADINA JOINT VENTURE

APPENDIX A: DIAMOND DRILL HOLE SURVEY DATA

DATE: \_\_\_\_\_  
BY: R. M. O.

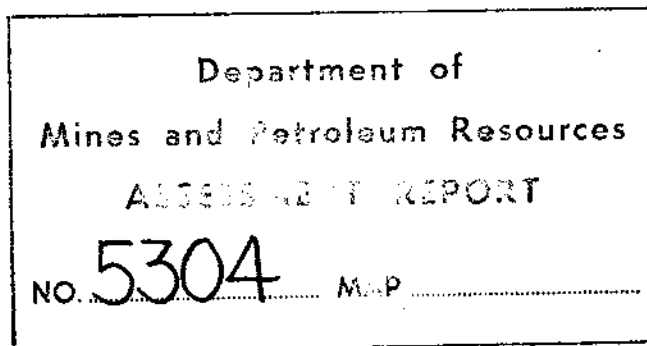
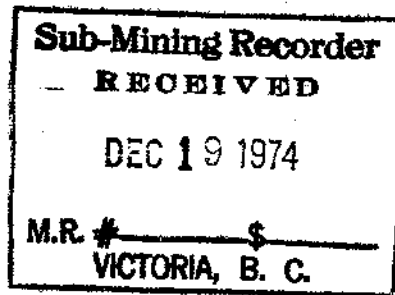
D.D.H. No.	STARTED	FINISHED	DEPTH	DECLINATION	AZIMUTH	COLLAR			ACID TESTS		
						NORTHING	EASTING	ELEVATION	DEPTH	PH	RESIDUAL
UG74-1	18.4.74	21.4.74	392'	54° 33'32"	267° 25'25"	25399.36	18111.55	2608.09	200'	66°	35°
									380'	66°	35°
UG74-2	22.4.74	25.4.74	275'	36° 12'47"	225° 31'13"	25396.65	18110.87	2609.51	262'	43°	35°
									175'	72°	35°
UG74-3	26.4.74	30.4.74	352'	67° 29'18"	230° 46'05"	25397.63	18111.83	2607.75	350'	75°	70°
UG74-4 (1)	2.5.74	6.5.74	337'	29° 55'17"	270° 42'10"	23950.56	19598.62	2612.77	317'	38°	31°
UG74-5	12.5.74	14.5.74	338'	73° 47'43"	228° 59'00"	23949.61	19601.42	2609.86	338'	76½°	72°
									150'	41°	35°
UG74-6 (2)	7.5.74	9.5.74	327'	31° 19'	169° 54'40"	23942.35	19602.18	2610.60	250'	30½°	29°
S74-1	22.4.74	30.4.74	1452'	77½°	226° 14'43"	23539.-	20710.-	3112.-			
S74-1 Ext.	5.5.74	6.5.74	1506'								
S74-2	1.5.74	5.5.74	1267'	62½°	"	23538.-	20709.-	3112.-			
S74-3	8.5.74	13.5.74	1148'	49-3/4°	180° 23'36"	23540.-	20728.-	3108.-			
UG74-6A	9.5.74	11.5.74	18'								
NOTE											
1. High water pressure at approx. 142'											
2. Hole surveyed after removing machine. Use dip (34½°) of original layout for plotting											

BRADINA JOINT VENTURE  
EXPLORATION PROGRAM 185-4

---

September 30, 1974

		<u>To Date</u>
185-4-40	Cross Cutting	37,891
185-4-50	Diamond Drilling	65,636
185-4-80	Indirect	31,032
185-4-90	General and Overhead	10,939
		<hr/>
		145,498
	Management Fee (5%)	7,275
		<hr/>
		<u>\$152,773</u>





BRADINA JOINT VENTURE  
EXPLORATION PROGRAM 185-4

September 31, 1974

To Date

1. Cross Cutting

185-4-40	Contractor	\$ 28,779
185-4-41-1	Mechanical Support - Labour	2,411
185-4-41-2	Mechanical Support - Supplies	1,026
185-4-42	Ground Support	346
185-4-43	Track Maintenance	3,516
185-4-44	Ventilation	45
185-4-45	General	1,768
		<hr/>
		37,891
		<hr/>

2. Diamond Drilling

185-4-50	Contractor	55,808
185-4-51	Ground Support & Station Preparation	1,002
185-4-52	Air and Water	75
185-4-53	General	318
185-4-54	Mechanical Support	3,186
185-4-55	Supervision	5,248
		<hr/>
		65,636
		<hr/>

3. Indirect

185-4-80-1	Compressed Air - Rental	7,455
185-4-80-2	Compressed Air - Fuel & Supplies	6,329
185-4-81-1	Power - Rental	1,936
185-4-81-2	Power - Fuel & Supplies	1,518
185-4-82	Engineering, Geology, Sampling & Assaying	9,622
185-4-83	Administration	2,681
185-4-84	Small tools and Miscellaneous Supplies	218
185-4-85	General	1,273
		<hr/>
		\$ 31,032
		<hr/> <hr/>

4. General and Overhead

185-4-90	Subsistence & Employee Expense	\$ 5,407
185-4-91-1	Vehicles - Rental	404
185-4-91-2	Vehicles - Supplies & Maintenance	536
185-4-92	Travel	2,531
185-4-93	Communications	820
185-4-94	Consulting	1,114
185-4-95	Feasibility Study	127
		<hr/>
		\$ 10,939
		<hr/>

APPENDIX B

Sperry-Sun Survey of Surface Diamond Drilling

<u>HOLE NO.</u>	<u>DEPTH</u>	<u>DECLINATION</u>	<u>OBSERVED DIRECTION **</u>
S74-1	250'	78 1/2°	S16°W(196°)
	500'	80°	S22°W(202°)
	750'	80°	S25°W(205°)
	* ( 200'	77°	S20°W(200°)
	( 400'	78-79°	S24°W(204°)
	( 600'	?	?
	1000'	81°	S20°W(200°)
	1250'	81°	S17°W(197°)
	1450'	80 1/2°	S24°W(204°)

\*Difficult to read properly due to obscured image. These three tests were not paid for.

S74-2	200' (1st test)	65 1/2°	S63°W(243°)
	200' (2nd test)	67 3/4°	S33°W(213°)
	400'	66°	S51°W(231°)
	600'	64°	S89°W(269°)
	800' (1st test)	67 1/2°	S68°W(248°)
	800' (2nd test)	67°	S17°W(197°)
	1000'	69°	S53°W(233°)
	1267'	66 1/2°	S67°W(247°)

Note: Erractic variation in directions assumed to be due to presence of magnetite in core. For purposes of plotting use Declination only and assume constant azimuth as surveyed, i.e. 226° 14'43" (True Azimuth)

S74-3	200'	51 1/2°	N34°W(326°)
	400'	52°	S44°E(136°)
	600'	54 1/2°	S64°E(116°)
	800'	53 1/2°	S16°E(164°)
	1000'	58°	S 7°W(187°)
	1148'	59 1/2°	N36°E( 36°)

Note: Magnetite in core  
 For plotting use surveyed bearing of collar i.e. 180° 23'36"  
 (True Azimuth)

\*\* Not corrected for magnetic declination

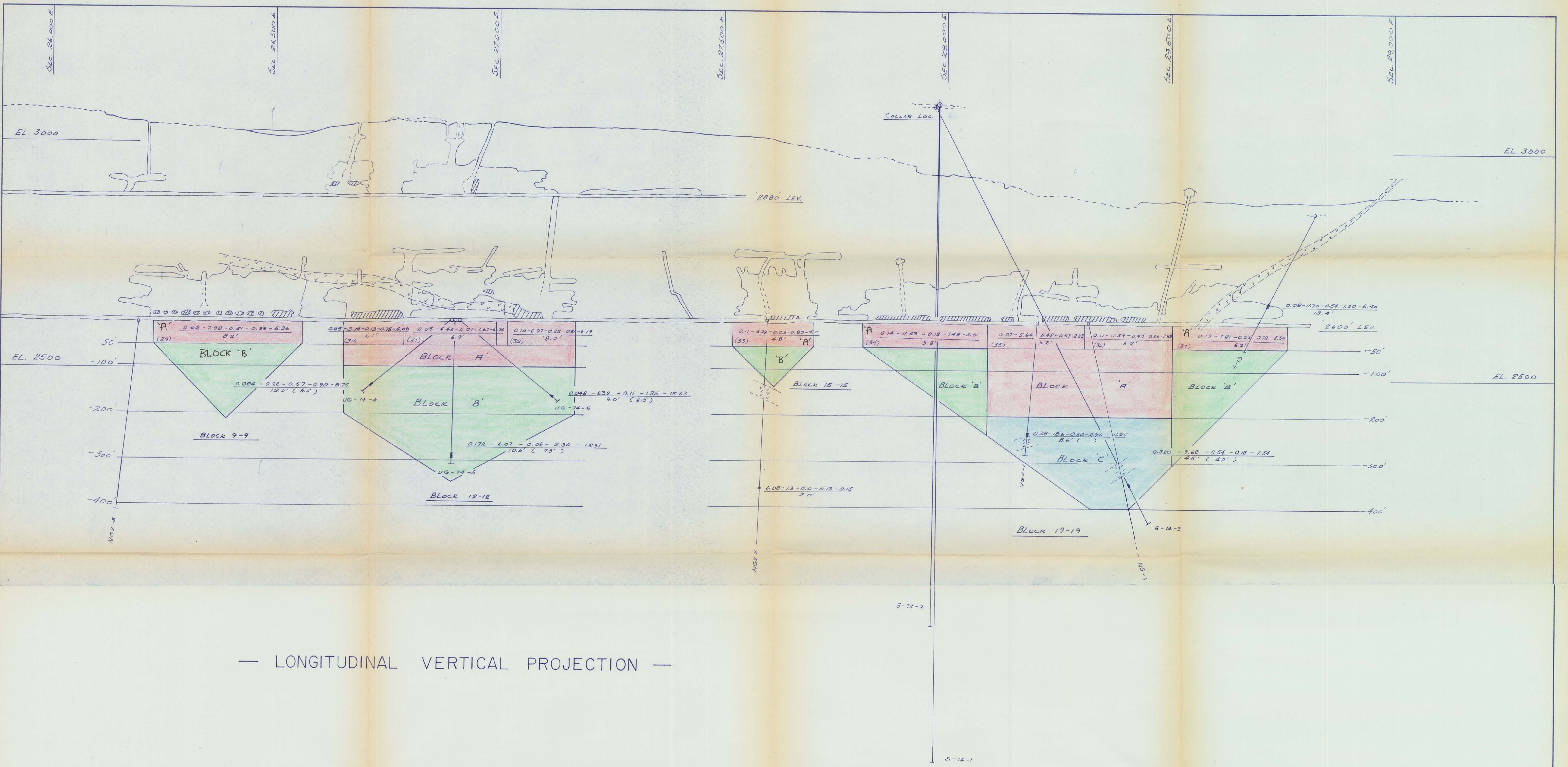
APPENDIX C

BRADJINA MINE

Diamond Drill Core Index

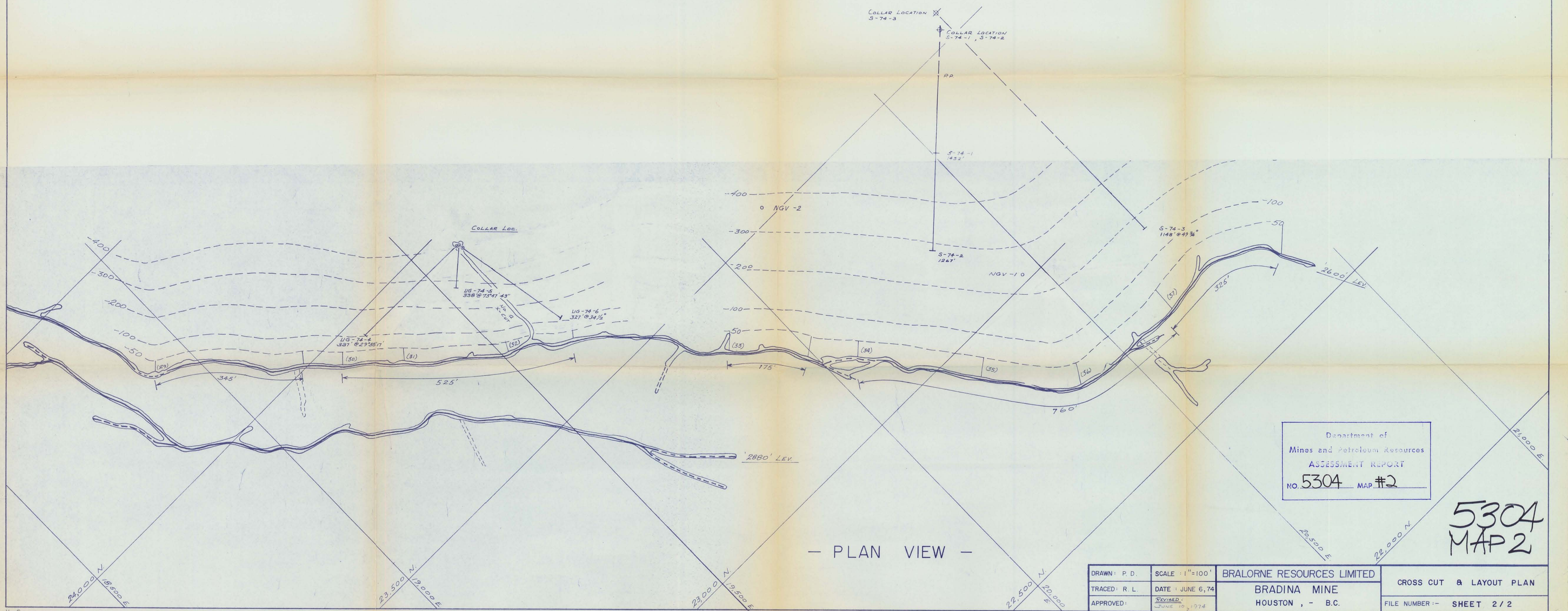
Core samples used as standards in the logging of Diamond Drill Holes S74-1 to 3 and UG74-1 to 6.

<u>Sample No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Rock Dimension</u>	<u>Logged By</u>
A	NG4	369	Altered Feldspar Porphyry	T. Stokes
B	BS104A	231	Microdiorite	N. Andrade
C	B.S105	593	Typical Microdiorite	N. Andrade
D	B.S105	518.5	Pulaskite Dyke	N. Andrade
E	B.S102	153	Trachyte Dyke	T. Stokes
F	B.U108	315	Microdiorite	N. Andrade
G	B.U108	1042	Typical Microdiorite	N. Andrade
H	B.U108	590.4	Feldspar Porphyry Trachyte Dyke	N. Andrade
I	B.U125	246	Andesitic Lapilli Tuff	N. Andrade
J	B.U125	115	Andesitic Volanic Breccia	N. Andrade
K	B.U125	267	Andesitic Volanic Breccia	N. Andrade
L	B.U125	197	Andesitic Lithic Tuff	N. Andrade
M	B.S104	113	Meta Andesitic (altered Microdiorite)	N. Andrade
N	B.S104A	471	Pulaskite	
O	71-2	117	Agglomerate (Andesitic)	T. Stokes
P	S74-2	973	Dacite Porphyry (Type A)	P. Daignault
Q	S74-1	1441	Tuff Breccia (Type A)	P. Daignault
R	S74-1	993	Microdiorite (Type A)	P. Daignault



— LONGITUDINAL VERTICAL PROJECTION —

— SAMPLE KEY —  
 AU - R<sub>0</sub> - CU - PD - ZN  
 INTERSECTION LENGTH (ESTIMATED TRUE WIDTH) \* EXAMPLE ONLY  
 0.92 02 - 248 02 - 107% - 155% - 15 68%  
 45' (3.8')

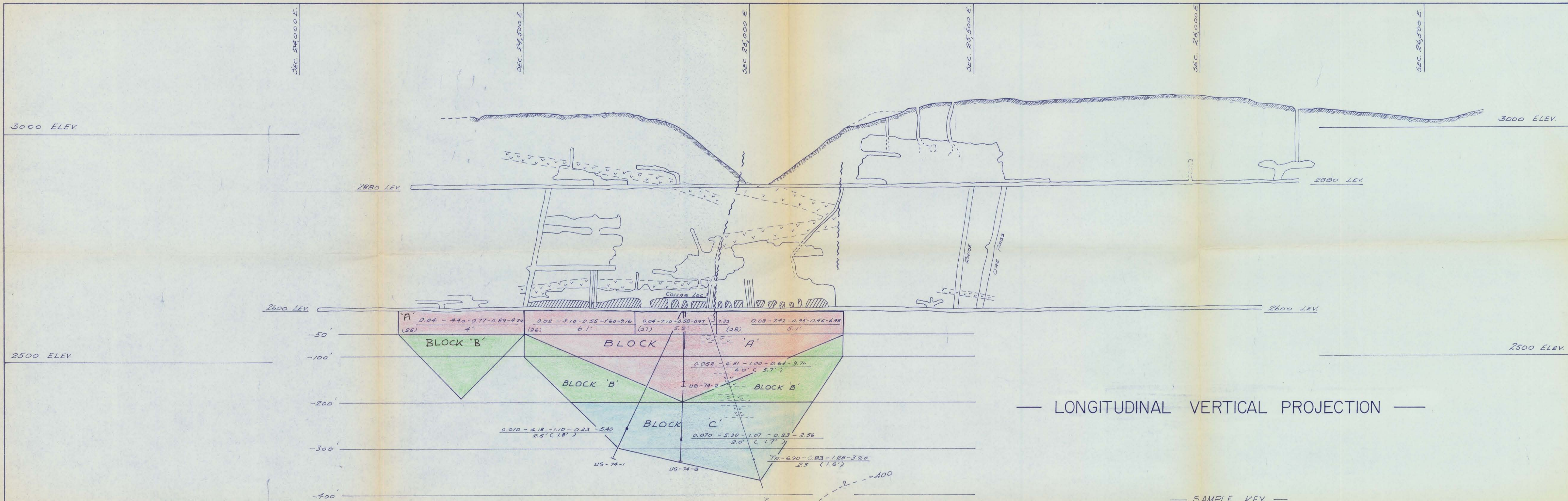


— PLAN VIEW —

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 5304 MAP #2

5304  
 MAP 2

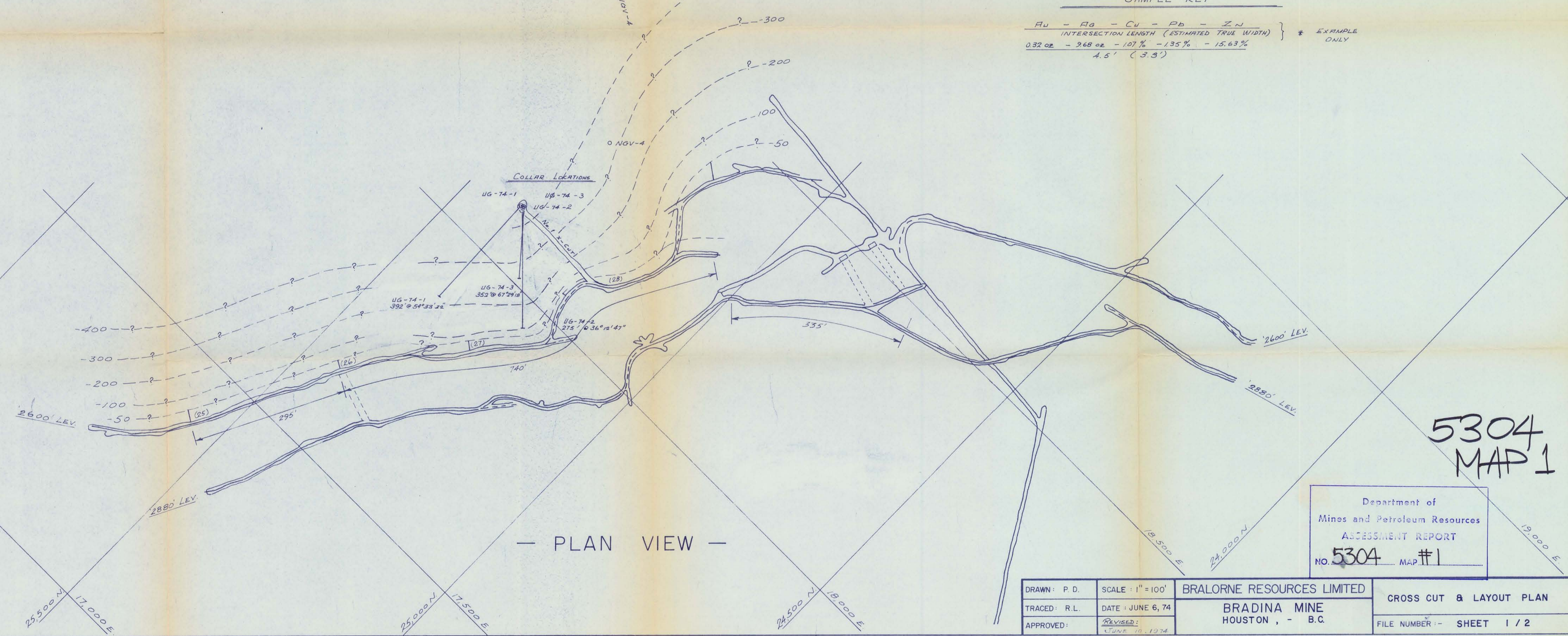
DRAWN: P.D.	SCALE: 1"=100'	BRALORNE RESOURCES LIMITED	CROSS CUT & LAYOUT PLAN
TRACED: R.L.	DATE: JUNE 6, 74	BRADINA MINE	
APPROVED:	REVISED: JUNE 19, 1974	HOUSTON, - B.C.	FILE NUMBER: SHEET 2 / 2



— SAMPLE KEY —

Au	Pb	Cu	Pb	Zn
INTERSECTION LENGTH (ESTIMATED TRUE WIDTH)				
0.32 oz	-	9.68 oz	-	107%
- 1.35% - 15.63%				
4.5' (3.3')				

\* EXAMPLE ONLY



5304  
MAP 1

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5304 MAP #1

DRAWN: P.D.	SCALE: 1"=100'	BRALORNE RESOURCES LIMITED	CROSS CUT & LAYOUT PLAN
TRACED: R.L.	DATE: JUNE 6, 74	BRADINA MINE	FILE NUMBER: - SHEET 1 / 2
APPROVED:	REVISED: JUNE 10, 1974	HOUSTON, - B.C.	



18,000 E. 18,200 E. 18,400 E.

25,400 N. 25,200 N.

17,800 E. 17,800 E. 17,800 E.

25,400 N. 25,200 N.

17,800 E. 18,000 E. 18,200 E. 18,400 E.

HEAVY WATER FLOW

FAULT ZONE DIPPING STEEPLY EAST. INTENSE SHEARING, ROCK IS LOCALLY CONSISTENCY OF SAND

VERY STRONG SHEARING MAINLY FELDSPAR PORPHYRY

UP TO 6" FAULT GOUGE

INTENSELY SHEARED THROUGH OUT

STRONGLY ALTERED TUFFACEOUS PORPHYRITIC MICRODIORITE

LAPILLI TUFF FRAGMENTS UP TO 4"

PULASKITE DYKE (?) DRAGGED ON EAST WEST FAULT

PULASKITE DYKE CURLS PARALLELED TO EAST WEST FAULT

1/2" - 2" QTZ VEIN MINERALIZED CPY

PULASKITE DYKE FAULTED CONTACTS WITH ~ 1/2" GOUGE

1/4" - 1/2" SIDERITE MINERALIZED CPY EITHER SIDE.

1/2" QTZ & SIDERITE VEIN, HEAVILY MINERALIZED CPY, MINOR SPHALERITE

LAPILLI TUFF - SUB-ANGULAR FRAGMENTS UP TO 8"

ON FAULT

UP TO 4" QTZ FILL ON THIS FAULT

ROLE IN FAULT

UP TO 6" WIDE FAULT ZONE

UP TO 4" QTZ. (BARREN GREY)

STRONGLY ALTERED TUFFACEOUS PORPHYRITIC MICRODIORITE

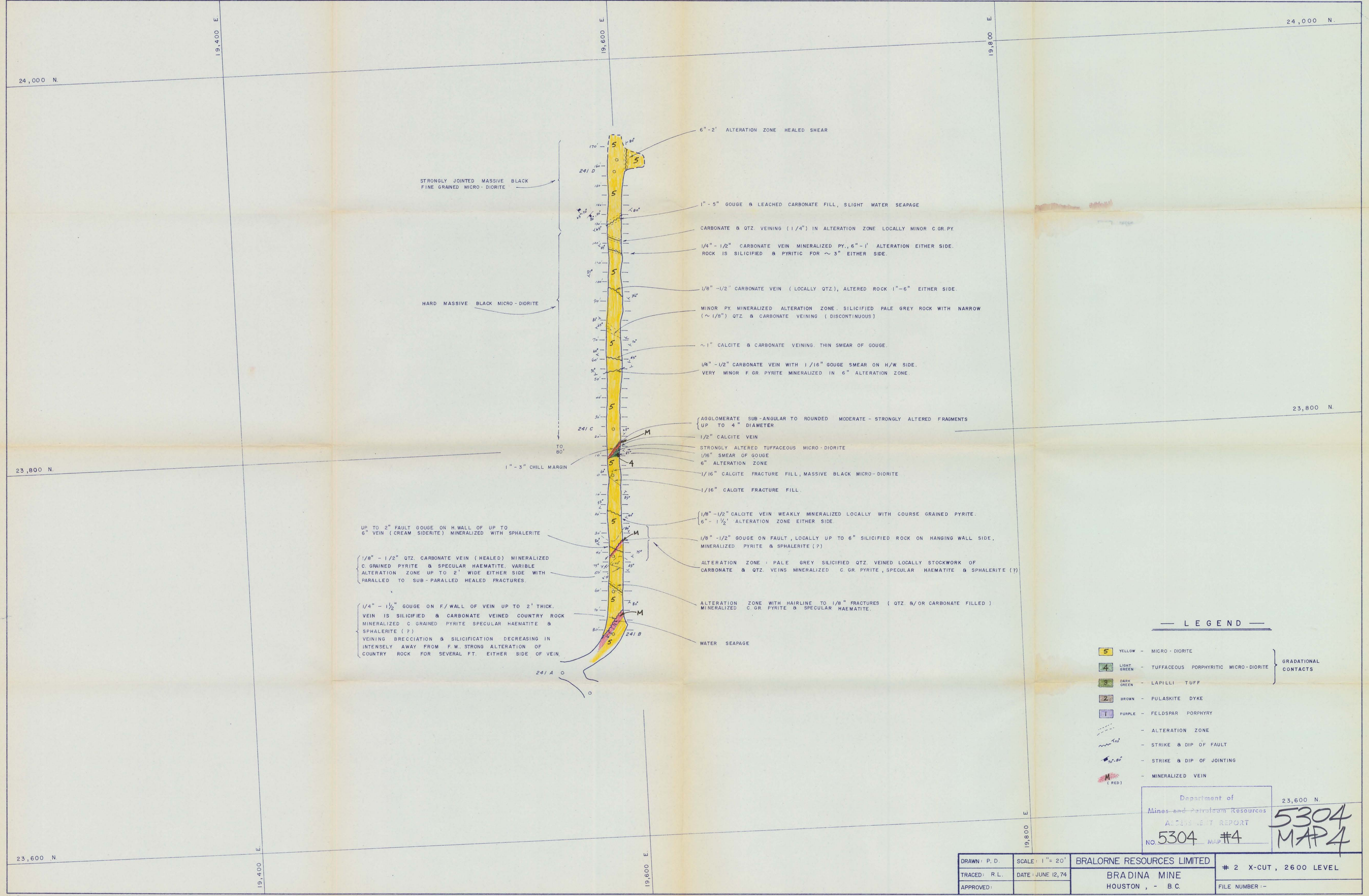
LEGEND

- 5 YELLOW - MICRO - DIORITE
  - 4 LIGHT GREEN - TUFFACEOUS PORPHYRITIC MICRO - DIORITE
  - 3 DARK GREEN - LAPILLI TUFF
  - 2 BROWN - PULASKITE DYKE
  - 1 PURPLE - FELDSPAR PORPHYRY
  - - - ALTERATION ZONE
  - - - STRIKE & DIP OF FAULT
  - - - STRIKE & DIP OF JOINTING
  - M (RED) - MINERALIZED VEIN
- GRADATIONAL CONTACTS

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5304 MAP #3

5304  
MAP 3

DRAWN: P. D.	SCALE: 1" = 20'	BRALORNE RESOURCES LIMITED	# 1 X-CUT, 2600 LEVEL
TRACED: R. L.	DATE: JUNE 11, 74	BRADINA MINE	FILE NUMBER: -
APPROVED:		HOUSTON, - B.C.	



- LEGEND
- 5 YELLOW - MICRO-DIORITE
  - 4 LIGHT GREEN - TUFFACEOUS PORPHYRITIC MICRO-DIORITE
  - 3 DARK GREEN - LAPILLI TUFF
  - 2 BROWN - PULASKITE DYKE
  - 1 PURPLE - FELDSPAR PORPHYRY
  - ALTERATION ZONE
  - STRIKE & DIP OF FAULT
  - STRIKE & DIP OF JOINTING
  - M (RED) - MINERALIZED VEIN
- } GRADATIONAL CONTACTS

Department of  
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ACCESS REPORT  
NO. 5304 MAP #4


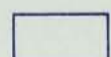




23,600 N.  
**5304**  
**MAP 4**

DRAWN: P. D.	SCALE: 1" = 20'	BRALORNE RESOURCES LIMITED	
TRACED: R. L.	DATE: JUNE 12, 74	BRADINA MINE	# 2 X-CUT, 2600 LEVEL
APPROVED:		HOUSTON, - B.C.	FILE NUMBER: -





- LEGEND -

-  - CROWN GRANTS - ANNUAL
-  - EXPIRY DATE - 1975
-  - EXPIRY DATE - 1976
-  - EXPIRY DATE - 1977
-  - GROUP - BRADINA 1
-  - GROUP - BRADINA 2

5304  
MAPS

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 5304 MAP #5

DRAWN: R. L.	SCALE: 1" = 1/4 MI.	BRALORNE RESOURCES LIMITED	— CLAIMS MAP —
TRACED:	DATE: NOV. 27/74	- BRADINA MINE -	
APPROVED:		BRITISH COLUMBIA	
			FILE NUMBER :-