DRILLING REPORT

ASITKA NORTH PROPERTY

Z MINERAL CLAIMS

Z #1 to Z #40

Owned by

CANADIAN SUPERIOR EXPLORATION LIMITED

Operated by

BP MINERALS LIMITED

Diamond drill hole ZD #1 493'(151m) BQ core

Diamond drill hole ZD #1 363 North 183 East - -60° at 090° 5575' elevation

Diamond drill core stored at Johanson Lake base camp

Total costs applied: $12,019

Claim credit apportionment: 2 years Z #21 to #40
1 year Z #1 to #20

By: D.K. Mustard, P.Eng.
and C.D.S. Bates

October 23, 1975

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5662 MAP

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STATEMENT OF COSTS

Asitka North Property

Z Mineral Claims

Z #1 - Z #40

SUMMARY

(i)	Direct drilling costs	$ 5,053
(ii)	Indirect drilling costs	2,293
(iii)	Helicopter support	3,405
(iv)	Logging/splitting	610
(v)	Core analysis/shipping	334
(vi)	Report	225
	TOTAL	$12,019

(i) DIRECT DRILLING COSTS - Diamond Drill Hole ZD #1

Wright Drilling Company Limited
Kamloops, B.C. (drilling contract and itemized account attached)

Boyles B.B.S.I.	BQ core/BW casing			
ZD #1	36' casing	$10.25/foot		$ 369
	457' coring			4,684
Total cost (i)	493' (150m)			$5,053

(ii) INDIRECT DRILLING COSTS

In addition to drilling one hole on the Z mineral claims two other holes were drilled on another property of BP Minerals Limited. The three holes formed a programme of diamond drilling based out of Johanson Lake, B.C. As a consequence, one third of the mobilization and demobilization costs and one half of the labour costs of moving from one property to the other have been claimed.

Total mobilization costs $2,284 1/3 claimed	$ 761
Total demobilization costs $2,132 1/3 claimed	711
Total labour costs for inter-property move $852 1/2 claimed	426
Mud mixing costs - Z claims only	72
Damaged rod costs - Z claims only	143
Total core storage cost - 6' x 6' x $15 sq.foot = $540 1/3 claimed	180
Total cost (ii)	$2,293

(iii) HELICOPTER SUPPORT

Vancouver Island Helicopters Ltd.
Bell 206B $250/hour contract.
Drill crews, working on two 12 hour shifts/day, were supported twice a day into and out of the Z claims from a drill camp at Johanson Lake.

July 25	Drill set-up	4.2 hours
August 9	Support	1.0 hours
August 10	Support	1.7 hours
August 11	Support/core-out	0.8 hours
August 12	Support/core-out	0.8 hours
August 13	Support/core-out	1.4 hours
August 14	Support/core-out	0.6 hours
August 15	Drill move out	2.35 hours (total 4.7 hours 1/2 claimed)
Total hours		12.85 hours

Total cost	12.85 hours x $250/hour-contract	$3,212
(iii)	12.85 hours x $15/hour-fuel (Jet B)	193
		$3,405

(iv) LOGGING/SPLITTING

Project geologist - C. Bates August 13-17
Technician - M. Duplessis - August 13-15

C. Bates - $79.40/day x 5 days	$397
M. Duplessis - $30.88/day x 3 days	93
Food/accommodation 8 man days $15/day	120
Total cost (iv)	$610

(v) CORE ANALYSIS/SHIPPING

Acme Analytical Laboratories
6455 Laurel Street, Burnaby, B.C. V5B 3B4
(Dean Toye, BSc - certified B.C. Assayer)

47 x 10-foot samples - Cu assay at $4.50 @	$211.50
- composite preparation 0.35¢/sample	16.45
- Au assay 10 composite samples $4.50 @	45.00
Shipping costs - Greyhound Lines of Canada (F882636)	60.55
Total cost (v)	$334

(vi) REPORT

Core logs/assay logs/maps/report	$225

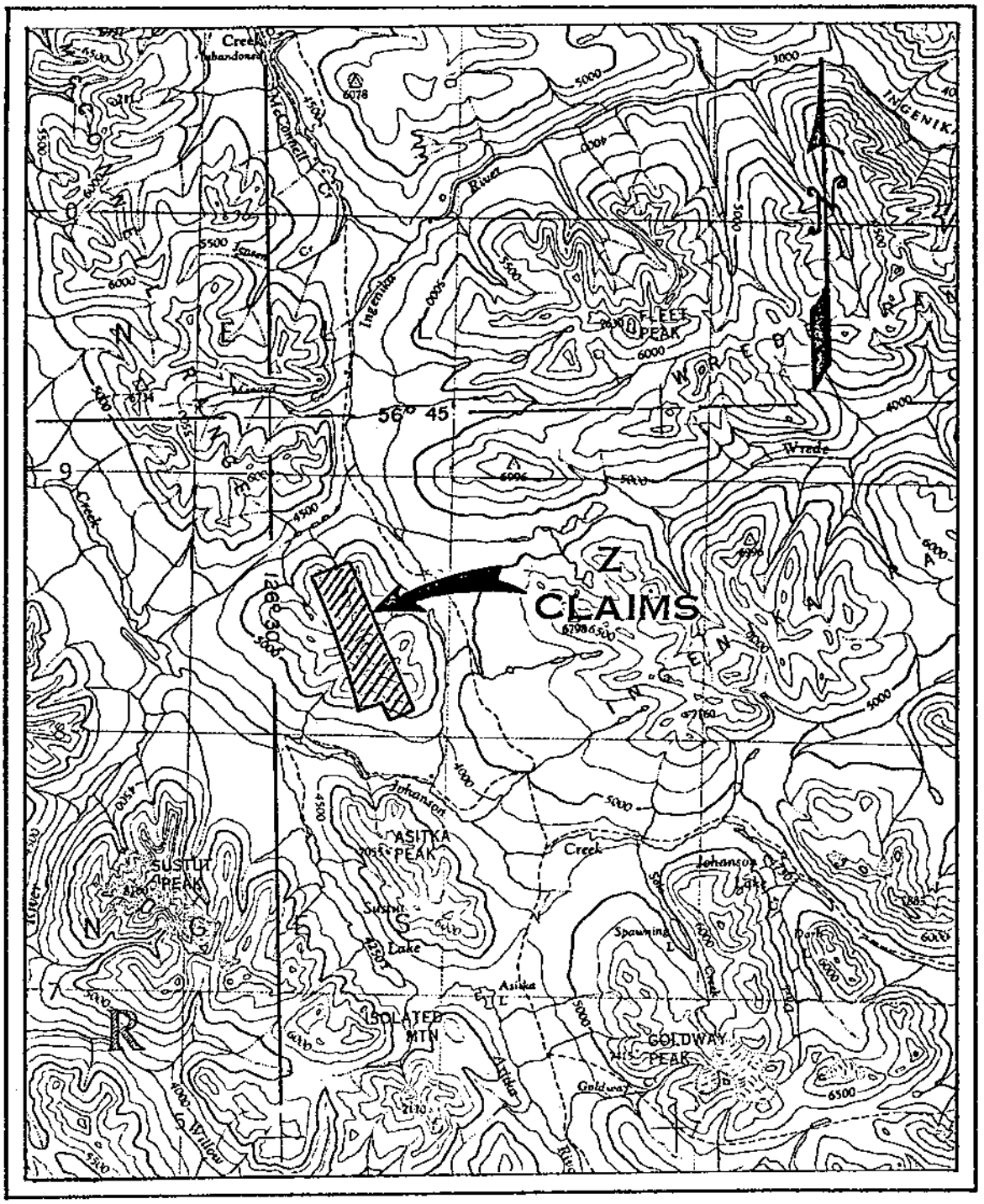

PLATE 1

LOCATION MAP

Z CLAIMS

JOHANSON CREEK;OMINECA MINING DIVISION,B.C.

N.T.S. 94D9

SCALE: 1 INCH = 4 MILES

WRIGHT DRILLING COMPANY LTD.

NTRACT DIAMOND DRILLING
DERGROUND AND SURFACE

B P Minerals Limited
RECEIVED
SEP 2 1975
Vancouver, B. C.

~~Box 232~~
KAMLOOPS B.C.
Phone ~~372-9781~~

BREAKDOWN ON INVOICE # 38307 JULY 25 - AUGUST 31/75

Mobilization, setting up camp and drill			
167 man hours @ $12.00	$2,004.00		1/3 claimed for 2 claims
Truck milage 1400 miles @ $0.20	280.00	2,284.00	
Drilling cost for hole # 1 – ~~ZD#1~~			
Casing 0 – 36 – 36' @ $10.25	369.00		
INCORRECT Coring 36 – 473 – 437' @ $10.25	4,479.25	4,848.25	
CORRECT Coring 36 – ~~495~~ – ~~457~~ @ $10.25	4,684.25	5,053.25	
Cost for mixing drill mud			
6 man hours @ $12.00		72.00	
Cost for drill rods damaged			
4 BQ rods @ $35.87 each		143.48	
Cost for moving drill to hole # 2			
71 man hours @ $12.00		852.00	1/2 claimed for 2 claims
Drilling cost for hole # 2			
Casing 0 – 20 – 20' @ $10.25	205.00		
Coring 20 – 491 – 471' @ $10.25	4,827.75	5,032.75	
Reaming cost for hole # 2			
12 drill hours @ $30.00		360.00	
Cost for Acid test hole # 2	Not to be included in 2 claims drilling costs.		
1 drill hour @ $30.00		30.00	
Cost for equipment damage hole # 2			
3 – BQ drill rods @ $35.87 each	107.61		
1 – BW casing shoe @ $154.35	154.35	261.96	
Cost for moving drill to hole # 3			
60 man hours @ $12.00		720.00	
Drilling cost for hole # 3			
Casing 0 – 22 – 22' @ $10.25	225.50		
Coring 22 – 445 – 423' @ $10.25	4,335.75	4,561.25	

Reaming cost for hole # 3		
8 drill hours @ $30.00 per hour		240.00
Cementing cost for hole # 3		
18 drill hours @ $30.00 per hour		540.00
Cost for equipment damaged hole # 3		
1 - BW casing shoe	154.35	
1 - BQ Diamond bit	265.75	
2 - BQ drill rods	71.74	
plus 10% of $491.84	49.18	541.02

Not to be included in 2 claims drilling costs.

Demolization cost job completion		
121 man hours @ $12.00	1452.00	
truck milage	280.00	
truck rental 3 ton	400.00	2,132.00

1/3 claimed for 2 claims

Total $22,618.71

BP Minerals Limited
RECEIVED
SEP 8 1975
Vancouver, B.C.

ACME ANALYTICAL LABORATORIES LTD.

6455 LAUREL STREET., BURNABY, B.C. V5B 3B4
PHONE: 299-5242

Aug. 25, 1975
File 4331

B. P. Minerals Ltd.,
405 - 1199 W. Pender St.,
Vancouver, B. C. V6E 2R1

TERMS:
NET TWO WEEKS INTEREST AT 1½% PER MONTH CHARGED ON OVERDUE ACCOUNTS.

NUMBER	ASSAY	PRICE	AMOUNT
47	Copper assays @	$4.50	$211.50
47	Samples for composite @	.35	16.45
10	Gold assays @	4.50	45.00
			$272.95
	Greyhound Lines of Canada Ltd. F882636		60.55
			$333.50

B P Minerals Limited
RECEIVED
AUG 26 1975
Vancouver, B.C.

APPROVED FOR PAYMENT
CHARGE 80017
DATE SEP 22 1975 INITIALS

SHIPPING CHARGES:

PLEASE PAY LAST AMOUNT

STATEMENT OF QUALIFICATIONS

C.D.S. Bates, B.A.(Oxon), MSc., DIC.

1968	B.A.	Oxford University, (Honors Degree Geology)
1970	MSc.	Royal School of Mines, Imperial College, London University, (Mineral Exploration)
1970	DIC.	Royal School of Mines, Imperial College, London University, (Mineral Exploration)

DRILLING CONTRACT

THIS AGREEMENT made and entered into this 9th day of May , 1975.

B E T W E E N :

BP MINERALS LIMITED, a body corporate, incorporated under the laws of Canada and having an office at the City of Vancouver in the Province of British Columbia;
(hereinafter called "the Company")

OF THE FIRST PART

- and -

WRIGHT DRILLING LTD., a body corporate, incorporated under the laws of the Province of British Columbia and having its Registered Office at Suite 305, 186 Victoria Street, Kamloops, British Columbia;
(hereinafter called "the Contractor")

OF THE SECOND PART

W I T N E S S E T H :

WHEREAS the Contractor has been and is engaged in diamond drilling and the provision of related services;

AND WHEREAS the Company now desires that the Contractor conduct diamond drilling and provide related services for it on the Bird Mineral Claims located in the Wrede Range in the Omineca Mining Division;

NOW, THEREFORE, the parties agree as follows:

1. Drilling

The Contractor agrees to perform diamond drilling and related services for the Company on the Bird Mineral Claims situated in the Wrede Range in the Omineca Mining Division. The drilling services to be provided by the Contractor shall comprise the drilling of a series of bore holes, to depths and at locations upon the above described property selected by the Company, using a BQ core barrel producing a core of approximately 1.432. The Contractor agrees to commence such drilling on or after the 7th day of July, 1975, as specified by the Company, and to continue such drilling and related operations, at the rates and on the terms and conditions herein set forth, until such time as, in the opinion of the Company, the desired drilling is completed or weather conditions force cessation of drilling operations; provided that, the Company agrees that the minimum amount of drilling that it shall be required be drilled hereunder will be 2,000 feet.

2. Compensation

The Company shall pay the Contractor as full compensation for the services and materials required to be furnished by it a sum calculated on the following rates:

(a) For all drilling operations the Company agrees to pay the Contractor on a footage basis according to the following schedule of rates:

	From	To	Price/Foot
(i) Coring	0'	500'	$10.25
	500'	1000'	$11.00
	over 1000'		At a price agreed upon by authorized representatives of the Contractor and the Company. *
(ii) Overburden	0'	25'	$10.25
	25'	50'	$11.00
	50' plus		At field cost.

(b) For all operations conducted on a field cost basis, the Company agrees to pay the Contractor $30.00 per hour per drill outfit. The Contractor shall include in such hourly rate the cost of supplying a regular two man drill crew, supervision and maintenance as required, drilling machinery and associated equipment, fuel, and board and lodging for the drill crew. In the event labour over and above or apart from the regular two man crew and supervision are required, the Contractor agrees to supply such additional labour at the rate (herein called "the agreed labour rate") of $12.00 per man per hour. When the Contractor is working on the field cost rate, the cost of pipe or casing lost or left in the hole, diamond articles and materials and supplied consumed in the work shall be for the Company's account at cost plus 10%.

3. Transportation Moves and Camp

(a) The Company will pay, or charge to its account, travel costs of the Contractor's personnel from Kamloops to the drill camp at commencement of the operations and return on completion of the operations.

* To be referred to arbitration pursuant to the Arbitration Act, R.C.B.C. 1960, C14 if agreement cannot be reached.

(b) The Contractor shall pay for all costs incurred in moving its equipment and materials to and out of the location except that if access to the drilling area cannot be realized with the Contractor's truck, moving from the truck discharge point to the drilling area will be for the Company's account at the agreed labour rate.

(c) The Contractor shall provide and pay for a suitable camp for the purpose of providing room and board for personnel associated with the drilling operation. Erection and dismantling of the camp will be for the Company's account at the agreed labour rate.

(d) It is agreed that moves between drill sites shall be at the agreed labour rate. Moving time shall be from the time of completion of pulling to set-up time at the next drill site. No machine rental charge will be made unless the rig is used to move itself.

4. Materials, Equipment and Supplies

(a) The Contractor shall furnish and pay for water and all equipment required for the delivery and storage of water at the location except that if the source of water supply is at a greater distance than two thousand (2000) feet from the drilling site, or over three hundred (300) feet vertical lift, the Company will reimburse the Contractor at cost for the rental, installation and operation of additional high pressure hose and pumping equipment required.

(b) The Contractor shall supply such mud and additives (if any) as are required to help penetrate the overburden and or aid in core recovery, and the Company shall reimburse the Contractor at cost plus ten percent. Time spent mixing mud and stabilizing the hole will be charged on a field cost basis.

(c) The Contractor agrees to provide board and lodging for its own men at its own expense, and to provide meals to a limited number of the Company's representatives at the rate of $3.00 per meal.

(d) The Company agrees on fly-in jobs that all transportation and expediting costs be charged to the Company's account.

(e) If required by the Company, the Contractor shall furnish core boxes on the job site at cost, plus ten percent (10%).

(f) The Contractor shall furnish and pay for all equipment, materials and labour required for the execution of this contract other than that specified to be furnished by the Company.

(g) The Company agrees that on helicopter jobs they will supply all fuels and transportation cost from truck discharge point to drill sites at no cost to the Contractor.

5. Reaming, Casing and Cementing

The Contractor shall perform such ream casing and cementing as are necessary to help prevent cave-ins, on a field cost basis.

6. Directional and Controlled Drilling

It is mutually agreed that directional drilling to change the direction of a bore hole and controlled drilling to maintain the angle of a bore hole shall not be included in this contract.

7. Standby

It is agreed that standby, dip testing, delay time or other time which the Contractor's crews are performing services for the Company, not otherwise covered herein, shall be performed on a field cost basis. Standby shall be limited to 8 hours per shift or 16 hours per day.

8. Security

The Contractor will not give out any information regarding drill results or access to any person other than to the Company's representative.

9. Drilling Sites

The Contractor agrees to case and drill on the sites and at angles and azimuths selected by the Company representative relating to place and time of drilling.

Notwithstanding the above, all operations conducted by the Contractor hereunder shall be conducted by the Contractor as an independent contractor.

10. Caves

In the event that cavities or loose and caving materials are encountered of a nature as to prevent the successful completion of any hole, the Contractor does not, under such conditions, guarantee to drill to a predetermined depth and, in the event that it becomes necessary to abandon the hole, the Company agrees to pay for such incompleted holes at the rate herein specified for all footage completed.

In the event it becomes necessary to resort to cementing, reaming of casing or mud circulation in bedrock, the Contractor shall notify the Company and the Company agrees to reimburse the Contractor at field cost from time spent at the Company's direction in cementing, reaming of casing or mud circulation in bedrock.

Wherever pipe or casing is lost, or left in a hole on the instruction of the Company's representative while on a field cost basis, the Company agrees to pay the Contractor for such pipe or casing at cost, f.o.b. drill site.

11. Payment

The Company agrees to pay the Contractor in Canadian funds within 30 days of the receipt of satisfactory invoices. Such invoices shall be submitted twice monthly and payment of same shall not prejudice the right of the Company to question any charge therein.

12. Compensation and Insurance

The Contractor agrees that the men employed by it in the performance of this Contract shall be fully covered under the Workers' Compensation Laws of the Province of British Columbia and that it will keep such men covered and will pay the assessment required and will protect the Company from any action arising out of any injury including death,sustained by any such employee, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

The Contractor shall, at its own cost, maintain Liability and Property damage insurance in the amount of five hundred thousand (500,000.00) dollars.

The Contractor shall carry an all perils insurance policy limited to $20,000.00 per drilling outfit at his own cost. The Company agrees that additional insurance cost incrued for flying or barging of equipment will be to their account.

All such policies of insurance shall provide by endorsement or otherwise that the insurer waives its right to subrogation against the Company and that the insurer shall deliver to the Company at least Ten (10) days written notice of any material change in such policy of insurance.

The Contractor shall deliver to BP a certificate or certificates of insurances or duplicate policies of insurance and such other documents as may be required evidencing full compliance with the insurance requirements hereinbefore contained.

13. Right of Entry and Removal of Equipment

Company will provide at its own expense, all rights of way, both ingress and egress, and the peaceable possession of all real property that may be required in connection with said work including real property upon which all necessary temporary buildings and other facilities may be erected, or placed, and except as otherwise provided, will save the Contractor harmless from any and all damages, claims, demands, costs or charges of whatsoever kind or character incident to the occupation and use of said real property, except where they arise out of or are attributable to the negligence of the Contractor, its agents or employees.

Upon completion of such work by the Contractor, the Contractor shall have the right to remove, within a reasonable length of time, all

temporary buildings and other fixtures, trade fixtures, machinery, equipment, appliances and facilities furnished by and placed upon such real property by contractor.

14. Liens

The Contractor shall be responsible for and will pay promptly all costs and charges, incurred by itself for labour, machinery, tools and supplies used in completing the work hereunder so that no lien or other such charge relative to the Contractor, may be registered against the Company or the property. The Company may retain an amount equal to 15% of the total amount payable pursuant to this contract if the contractor fails to supply releases evidencing payment of all wages, services and materials ordered by the Contractor.

15. Force Majeure

Neither party to the agreement shall be liable for any loss or damage caused by reason of strikes, acts of God, action of the elements, or any other causes (other than a lack of funds) beyond its control.

16. Laws Applicable

This agreement shall be interpreted and any dispute arising hereunder shall be determined in accordance with the laws of the Province of British Columbia.

17. Performance

The Contractor agrees to carry out all operations hereunder in a prudent, lawful and skilful manner, as expeditiously as possible, taking all reasonable precautions to eliminate unnecessary delay. The Contractor

shall indemnify and save harmless the Company from and against any and all claims arising out of or attributable to the work to be performed by the Contractor hereunder and resulting from the negligence or wilful misconduct of the Contractor, its employees or agents.

18. Assignments

This agreement shall be binding upon and shall inure to the benefit of the parties hereto, their respective successors and assignees, provided however, that the same shall not be assignable by either party until the consent in writing of the other shall have first been had and obtained thereto.

IN WITNESS THEREOF, this agreement has been executed by the parties hereto the day and the year first herein written.

APPROVED FOR EXECUTION (LEGAL)

BP MINERALS LIMITED

DIRECTOR

SECRETARY

WRIGHT DRILLING LTD.

President

Secretary

TO B. P. Minerals Ltd.,
405 - 1199 W. Pender St.,
Vancouver, B. C. V6E 2R1

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242

18

File No. 4331
Type of Samples Cores
Disposition 1 year

ANALYSES CERTIFICATE

No.	Sample	Cu %							No.
1	1014	.05							1
2	1015	.03							2
3	1016	.02							3
4	1017	.01							4
5	1018	.02							5
6	1019	.01							6
7	1020	.09							7
8	1021	.02							8
9	1022	.01							9
10	1023	.01							10
11	1024	.01							11
12	1025	.01							12
13	1026	.01							13
14	1027	.02							14
15	1028	.01							15
16	1029	.01							16
17	1030	.01							17
18	1031	.01							18
19	1032	.01							19
20									20

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BP Minerals Limited
RECEIVED
AUG 26 1975
Vancouver, B. C.

DATE SAMPLES RECEIVED Aug. 21, 1975
DATE REPORTS MAILED Aug. 25, 1975
ANALYST Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

TO B. P. Minerals Ltd.,
405 - 1199 W. Pender St.,
Vancouver, B. C. V6E 2R1

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242

19

File No. 4331
Type of Samples Cores
Disposition 1 year

ANALYSES CERTIFICATE

No.	Sample	Cu %							No.
1	1033	.01							1
2	1034	.01							2
3	1035	.01							3
4	1036	.02							4
5	1037	.01							5
6	1038	.01							6
7	1039	.01							7
8	1040	.01							8
9	1041	.02							9
10	1042	.01							10
11	1043	.01							11
12	1044	.01							12
13	1045	.01							13
14	1046	.01							14
15	1047	.01							15
16	1048	.15							16
17	1049	.01							17
18	1050	.02							18
19									19
20									20

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TO B. P. Minerals Ltd.,
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Vancouver, B. C. V6E 2R1

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242 20

ANALYSES CERTIFICATE

File No. 4331
Type of Samples Cores
Disposition 1 year

No.	Sample	Cu %							No.
1	1051	.03							1
2	1052	.34	✓						2
3	1053	.09							3
4	1054	.01							4
5	1055	.01							5
6	1056	.01							6
7	1057	.01							7
8	1058	.01							8
9	1059	.01							9
10	1060	.01							10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20

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TO B. P. Minerals Ltd.,
405 - 1199 W. Pender St.,
Vancouver, B. C.

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
6455 Laurel St., Burnaby 2, B.C.

Tel: 299-5242

21

File No. 4331
Type of Samples Cores
Disposition 1 year

ANALYSES CERTIFICATE

Composite

No.	Sample	Au oz/ton							No.
1	1014-1018	.001							1
2	1019-1023	.001							2
3	1024-1028	.001							3
4	1029-1033	.001							4
5	1034-1038	.001							5
6	1039-1043	.001							6
7	1044-1048	.001							7
8	1049-1053	.001							8
9	1054-1058	.001							9
	1059-1060	.001							10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20

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DATE SAMPLES RECEIVED Aug. 21, 1975
DATE REPORTS MAILED Aug. 25, 1975
ANALYST Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

DRILL LOG

SHEET NO. 1 / 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
ASIKA NORTH.		#363	183	5575

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/08/75	15/08/75		0	-60	090	493	-62			D.D.H. ZD#1
								BQ	493	

DEPTH From	DEPTH To	CORE Length	CORE %Rec	LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE F	STRUCTURE V/Ft	STRUCTURE F/Ft	Graph Log
				overburden — 36 feet						
36	40	3/9	93	36 – 100+	Pervasive	Disseminated		1	3	//
40	50	8/4	83		Epidote present as X-cutting stations and also as spheroid to blotchy amygdule fillings. White mineral (zeolites?) fillings also present.	IRON OXIDES – both magnetite and hematite 1–3% oxides – disseminated throughout the matrix		1	4	//
50	60	9/10	99	BLADED FELDSPAR PORPHYRY FLOW – bladed feldspar phenocrysts set in dark aphanitic groundmass of pretalle and – basalt composition – cross-cut by epidotized shear zones and/or mineral solution pathways. – 38'2" – 39'3" / 51'8" – 51'9" / 74'6" – 74'10" / 89'6" – 90'3" / 98'8" – 99' } 45° angle with core axis.				2	4	//
60	70	9/11	99		Joint Faces			2	2	//
70	80	9/6	95		Radiating to platy white and pink mineral – Zeolites?	Fracture fill oxide mineralization predominantly confined to disseminations – joint faces usually DRY.		1	1	//
80	90	9/5	94					1	3	//
90	100	9/3	92					1	2	//

DRILL LOG

SHEET NO. 2 / 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
ASITKA NORTH		363	183	

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/08/75	15/08/75		0	-60	090	493	-62			D.D.H. ZD#1
								BQ	493	

DEPTH From	DEPTH To	CORE Length	CORE %Rec	LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE F	STRUCTURE V/Ft	STRUCTURE F/Ft	Graph Log
100	110	9/9	98	100 - 200 +				1	2	//
110	120	10	100					1	2	//
120	130	10	100					C	3	//
130	140	9/6	95	BLADED FELDSPAR PORPHYRY FLOW - feldspar phenocrysts set in dark aphanitic groundmass - cross-cut by EPIDOTIZED zones at:- 109'3" - 109'6" 126'4" - 126'5" 152'3" - 152'7" 153 - 153'2" 168'3" - 168'4" 168'5" - 168'6" 168'7" - 168'8" 185'9" - 186' 188'9" - 189'6" 193'6" - 193'9" - cross-cutting zones at 45° angle to core axis.	EPIDOTE occurs both as amygdule fillings and as cross-cutting zones filling shear zones and/or mineral/solution pathways. Amygdule habit is usually spheroid or ragged "clothes".	IRON OXIDES disseminated through the matrix - both hematite and magnetite 1-3% oxides No sulphides visible megascopically		C	3	//
140	150	10	100					C	2	//
150	160	9/10	99					C	1	//
160	170	9/9	98					C	1	//
170	180	9/9	98					1	1	//
180	190	9/7	96					1	3	//
190	200	9/7	96					C	2	//

DRILL LOG

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION	SHEET NO.
ASITKA NORTH		363	183		3 5

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/08/75	15/08/75		0	-60	090	493	-62	BQ	493	D.D.H. ZD#1

DEPTH From	DEPTH To	CORE Length	CORE %Rec	LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE F	STRUCTURE V/Ft	STRUCTURE F/Ft	Graph Log
200	210	9/10	99	200 - 225'3" BLADED FELDSPAR PORPHYRY FLOW (BFP) - epidotized - amygdule fillings	epidote ± chlorite amygdules plus pink/white zeolite? on joint faces	IRON OXIDES		3	4	
210	220	10	100					1	4	
220	230	9/3	92	225'3" - 269 Reworked EPICLASTIC TUFFS - waterlain lapilli tuffs - polylithic clasts - mostly red mudstone - augite porphyry - bladed feldspar porphyry	TUFF BEDS generally epidotized - both matrix and some selectively altered clasts are epidotized. No marked alteration change across lithological boundaries	No change in habit or mode of occurence across the flow/tuff boundaries		2	5	
230	240	8/3	82			magnetite and hematite (1-3%) disseminated in both the BFP and tuff units		3	6	
240	250	9/10	99	BEDDING 45°/angle. CONTACTS parallel to BFP/tuff contact Fragment size - variable - "ash" size thru to "block" size (> 2½") - mostly lapilli size however. Rapidly alternating coarse and fine tuff beds - graded beddin's - alternating red and green beds. (258-269 fg maroon tuffs)		Size of oxides is proportional to the coarseness of the matrix in the tuff sections		4	5	
250	260	9/8	97					7	3	
260	270	10	100		EPIDOTE ZONES 203 - 208 210'4" - 211 219 - 219'3" 225'6" - 226'6" 229 - 232 (Epidotized) FAULT ZONES 233'6" - 234 246'4" - 246'10" 247'9" - 248'3" No epidote in darker less porphyritic BFP flow			2	1	
269 - 275				FLOW TOP BRECCIA - BLADED FELD PORPH. FLOW - MUDSTONE MATRIX						
270	280	9/9	98	275 - 289 BLADED FELDSPAR PORPHYRY FLOW - epidotized - amygdule fillings				3	3	
280	290	8/6	85					3	6	
290	300	8/2	81	289 - 292 DARKER - LESS PORPHYRITIC BLADED FELDSPAR PORPHYRY FLOW 292 - 297 BLADED FELDSPAR PORPHYRY FLOW - EPIDOTIZED 297 - 300+ DARKER - LESS PORPHYRITIC BLADED FELDSPAR PORPHYRY FLOW		minor NATIVE COPPER dissemination in darker less porphyritic Bladed feldspar porphyry flows	288	2	4	

DRILL LOG

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION	SHEET NO.
ASITKA NORTH		363	183	5575	4 / 5

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/08/75	15/08/75		C	-60	090	493	-62	BQ	493	D.D.H. ZD #1

DEPTH From	DEPTH To	CORE Length	CORE %Rec	LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE F	STRUCTURE V/Ft	STRUCTURE F/Ft	Graph Log
300	310	9/10	99	300 – 307 DARKER / less porphyritic BFP flow with gradational change to greyer	No epidote / silicification.	Native copper and Cuprite (?) disseminated + oxides		1	2	" " " " " fine
310	320	9/2	91	307 – 321 BLADED FELDSPAR PORPHYRY FLOW – increasing epidotization	Increasing epidote content - less silicification	IRON OXIDES – magnetite and hematite (less Cu in more porphyritic BFP)		2	3	" " coarse " "
320	330	9/11	99	321 – 400+ –Irregular contact– EPICLASTIC TUFFS water-lain lapilli tuffs – mostly red mudstone clasts variable size range – ash → block polylithic – volcanic / plutonic / sedimentary clasts				1	2	
330	340	10	100	bedding – 45°/core axis graded bedding – fining upwards sequences top contact usually sharp repetition of underlying cycle.	Generally highly epidotized – matrix usually partly or wholly epidotized.			2	2	
340	350	10	100			IRON OXIDES 1-3% but predominantly hematite		2	3	
350	360	8/1	80	rapidly alternating tuff types – coarse → fg predominantly red but include interbedded green tuff units.	Some clasts have been selectively epidotized - others partly - other clast types unaffected.	LESS magnetite to ABSENT		2	5	
360	370	9/10	99			Fe oxide grain size proportional to coarseness / fineness of matrix.		2	4	
370	380	8/4	83	Clasts – rounded to sub-angular – well bedded and usually well-sorted.				1	6	
380	390	8/10	89		X-cutting EPIDOTE ZONES 373 – 373'5"			1	3	
390	400	9/9	98					1	2	

BB

DRILL LOG

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION	SHEET NO.
ASITKA NORTH.		383	183	5575	5 / 5

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/08/75	15/08/75	0	-60	090	493	-62		BQ	493	D.D.H. ZD#1

DEPTH From	DEPTH To	CORE Length	CORE %Rec	LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE F	STRUCTURE V/Ft	STRUCTURE F/Ft	Graph Log
400	410	10	100	400 - 493 EPICLASTIC TUFFS - well bedded (sorted sequence of lapilli tuffs - predominantly RED sequence - minor green tuff interbeds - bedding 45° angle/core axis - rounded to sub-angular clasts - poly lithic fragments - augite porphyry - feldspar porphyry - intrusives - red mudstones - Cherts. - variation in tuff size from ash → block - mostly lapilli - typical sedimentary structures - rapidly alternating —END - ZD#1 - 493'—	epidotized both in matrix and some selectively altered fragments EPIDOTE ZONES X - cutting features 404 - 405'4" 407 - 407'6' 409'10" - 410'3' 413 - 42N'6' + hairline epidote stringers			2	4	
410	420	8/5	84			413-42N'6 EPIDOTE ZONE with disseminated CHALCOCITE and minor BORNITE plus Fe oxides both as matrix replacements and as fracture - fill		2	5	
420	430	9/8	97					3	4	
430	440	10	100					1	2	
440	450	10	100			disseminated Fe oxides - mostly in matrix 1-3% and mostly hematite. Nil to v. minor MAGNETITE		1	2	
450	460	10	100					1	3	
460	470	10	100					2	3	
470	480	10	100					1	2	
480	490	10	100			Acicular HEMATITE needles on some dry joint faces.		1	2	
490	493	3	100			Assays 23/10/75		1	2	

ASSAY DATA SHEET

SHEET NO. 1 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
? property		~ 363N	~ 187E	~ 5575'

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/8/75	15/8/75	0	-60	090	493	-07		BQ	493	D.D.H. 75 #1

FROM	TO	CORE LENGTH	% CORE RECOVERED	SAMPLE NUMBER	GRAPHIC LOG	ASSAY RESULTS CU	AU	AG	MoS2
20	40	20	93	1014		.05 ans			
40	50	50	83	1015		.03 ans			
50	60	910	99	1016		.02	.001		
60	70	911	99	1017		.01			
70	80	906	95	1018		.02			
80	90	905	94	1019		.01			
90	100	903	97	1020		.09			

ASSAY DATA SHEET

SHEET NO. 7 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
2 property		+365N	+183E	+5575'

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/8/75	15/8/75	0	-60	090	493	-72		BW	493	D.D.H. 75 #1

FROM	TO	CORE LENGTH	% CORE RECOVERED	SAMPLE NUMBER	GRAPHIC LOG	ASSAY RESULTS CU	AU	AG	MoS2
100	110	909	98	1021		.02	.001		
110	120	1000	100	1077		.01			
120	130	1000	100	1073		.01			
130	140	906	95	1074		.01			
140	150	1000	100	1075		.01			
150	160	910	99	1076		.01	.001		
160	170	909	95	1077		.02			
170	150	908	98	1078		.01			
150	190	907	96	1079		.01			
190	200	907	96	1030		.01			

ASSAY DATA SHEET

SHEET NO. 3 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
Z property		N 993'	W 1635'	N 5575'

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/13/75	15/2/75		0	-60	090	493	-62	BQ	411'	D.D.H. ZD-11

FROM	TO	CORE LENGTH	% CORE RECOVERED	SAMPLE NUMBER	GRAPHIC LOG	ASSAY RESULTS CU	AU	AG	MoS2
200	210	910	99	10311		.01	.001		
210	270	1000	100	10317		.01			
270	230	903	97	10333		.01			
230	240	903	82	10340		.01			
240	250	910	99	10355		.01			
250	260	908	97	10366		.02	.001		
260	270	1000	100	10377		.01			
270	280	909	98	10388		.01			
280	290	806	85	10399		.01			
290	300	902	81	10400		.01			

ASSAY DATA SHEET

SHEET NO. 4 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
2 property:		~ 393N	~ 183E	

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/9/75	15/9/75	0	-00	090	493	-17		BG	493	D.D.H. 2D#1

FROM	TO	CORE LENGTH	% CORE RECOVERED	SAMPLE NUMBER	GRAPHIC LOG	ASSAY RESULTS CU	AU	AG	MoS2
300	310	2'0	99	10411		.02	.001		
310	370	907	91	10412		.01			
370	330	911	93	10413		.01			
330	340	10'0	100	10414		.01			
340	350	10'0	100	10415		.01			
350	360	901	90	10416		.01	.001		
360	370	910	94	10417		.01			
370	380	905	93	10418		.15			
380	390	910	94	10419		.01			
390	400	909	95	10420		.02			

ASSAY DATA SHEET

SHEET NO. 5 5

LOCATION	CO-ORDINATES	NORTH	EAST	ELEVATION
7 MONTH		+BCBN	+185C	+5575'

DATE STARTED	DATE COMPLETED	SURVEYS						HOLE SIZE	TOTAL DEPTH	HOLE NO.
10/8/75	15/8/75	0	-60	090	493	-67		76	493	D.D.H. 7 MTH 1

FROM	TO	CORE LENGTH	% CORE RECOVERED	SAMPLE NUMBER	GRAPHIC LOG	ASSAY RESULTS CU	AU	AG	MoS2
400	410	1002	100	1051		.03	.001		
410	420	905	94	1052		.34			
420	430	1005	97	1053		.09			
430	440	1000	00	1054		.01			
440	450	1000	100	1055		.01			
450	460	1000	100	1056		.01	.001		
460	470	1000	100	1057		.01			
470	480	1000	100	1058		.01			
480	490	1000	100	1059		.01	.001		
490	493	300	100	1060		.01			

Z CLAIMS

MAGNETIC DECLINATION 28° E

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5662 MAP 2

● Diamond Drill Location

B P MINERALS LTD	
JOHANSON CREEK	
ORTHOPHOTO MAP	FIG. 1
McElhanney Surveying & Engineering Ltd.	Scale 1" = 1000'
1200 West Pender Street, Vancouver B.C. Canada	Contour Interval 50'
	Date July 25, 1974
	Job No. 06041-2
	Sheet No. 1 of 1

0 1000 2000 3000 4000
SCALE FEET