

DRILLING REPORT
on the
Ingenika Range Property
NIK MINERAL CLAIMS

NIK #2 of 18 units (Record #140 (10))
NIK #3 of 18 units (Record #361 (7))
NIK #4 of 12 units (Record #362 (7))

Omineca Mining Division
(NTS-94D9)

approximately 6.67 km N 30°E of Johanson Lake
at coordinates 56°40'N Lat., 126°08'W Long.

owned and operated by
BP MINERALS LIMITED

MINERAL REVENUE BRANCH ASSESSMENT REPORT 7451 No.

C.D.S. Bates
C.D.S. Bates
August 14, 1979

1979 NIK DRILLING REPORT

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SUMMARY

NIK CLAIMS

DIAMOND DRILLING

- A. Diamond drill hole NDH-16, BQ-675 feet (205.7 metres)
486.5N/493.2SE/-75^o grid east
- B. Diamond drill hole NDH-17, BQ-677 feet (206.3 metres)
488N/493.5E/-75^o grid east
- C. Diamond drill hole NDH-18, BQ-491 feet (149.6 metres)
485.4N/494.2E/-75^o grid east

Diamond drill core (BQ) stored on property

Total costs applied \$33,600.

Claim credit apportionment

6 years to NIK 3 of 18 units

5 years to NIK 4 of 12 units

STATEMENT OF COSTS

Ingenika Range Property

NIK Claims 2, 3, 4

NIK Group C (NIK 2, 4)

Summary

1. Costs applied to NIK 3

(i)	Drilling	- NDH #16	\$12,404.95
		NDH #18	8,222.65
(ii)	Analytical	- NDH #16	305.50
		NDH #18	211.50
(iii)	Labour		<u>1,785.00</u>
		Total	<u>\$22,929.60</u>
			=====

2. Costs applied to NIK 4

(i)	Drilling	- NDH #17	\$12,455.60
(ii)	Analytical	- NDH #17	572.30
(iii)	Labour		<u>420.00</u>
		Total	<u>\$13,447.90</u>
			=====

Drilling Company

Wright Drilling Company Limited, Kamloops, B.C.
(invoices attached)

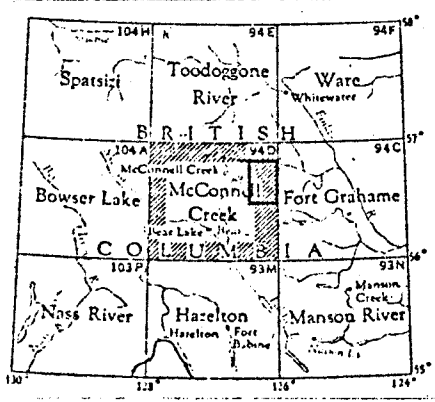
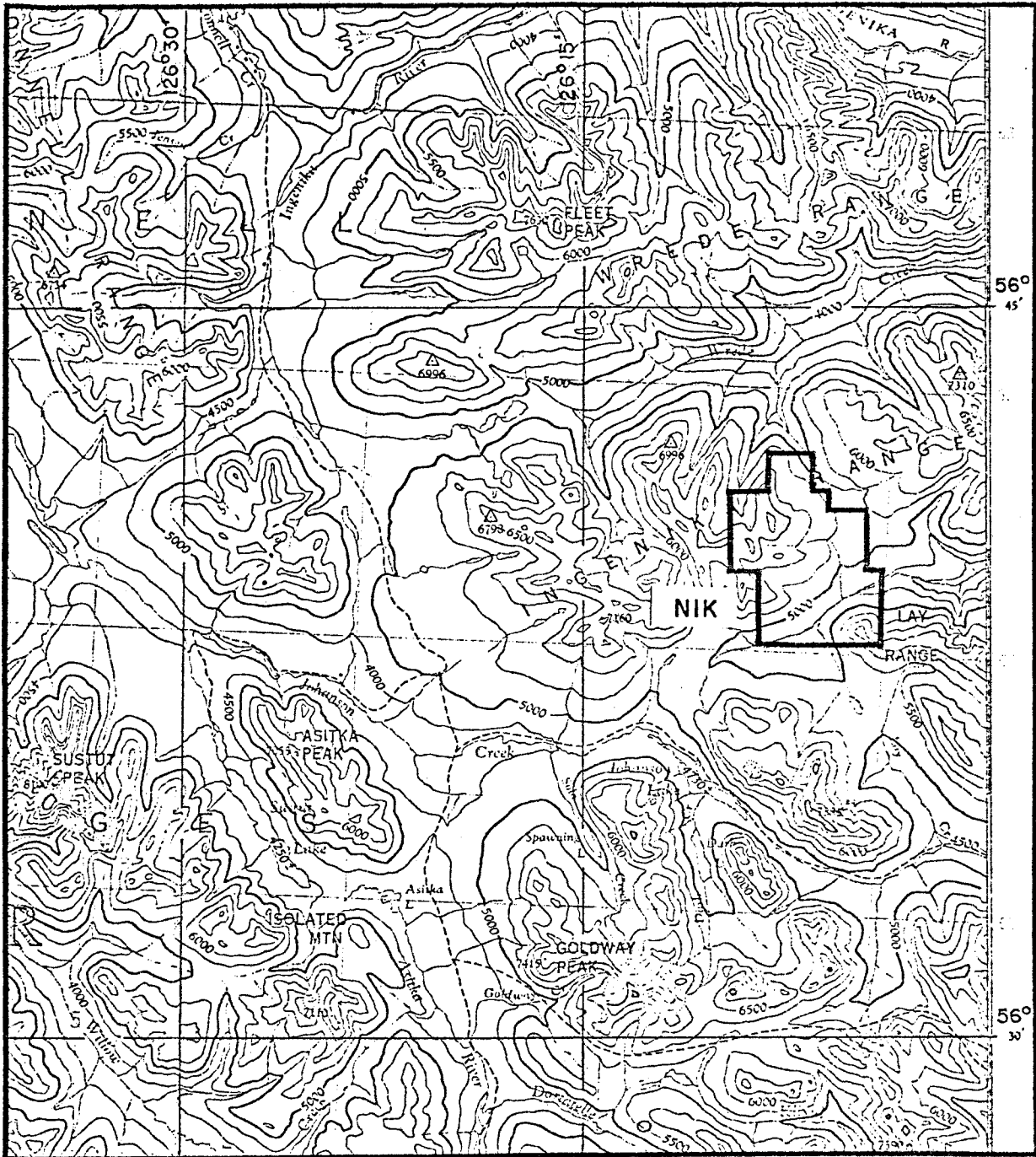
Drill - Boyles BBSI BQcore / BWcasing

Helicopter Company

Northern Mountain Helicopters, Prince George, B.C.

Helicopter - Bell 206 B Jet Ranger

Handwritten signature/initials



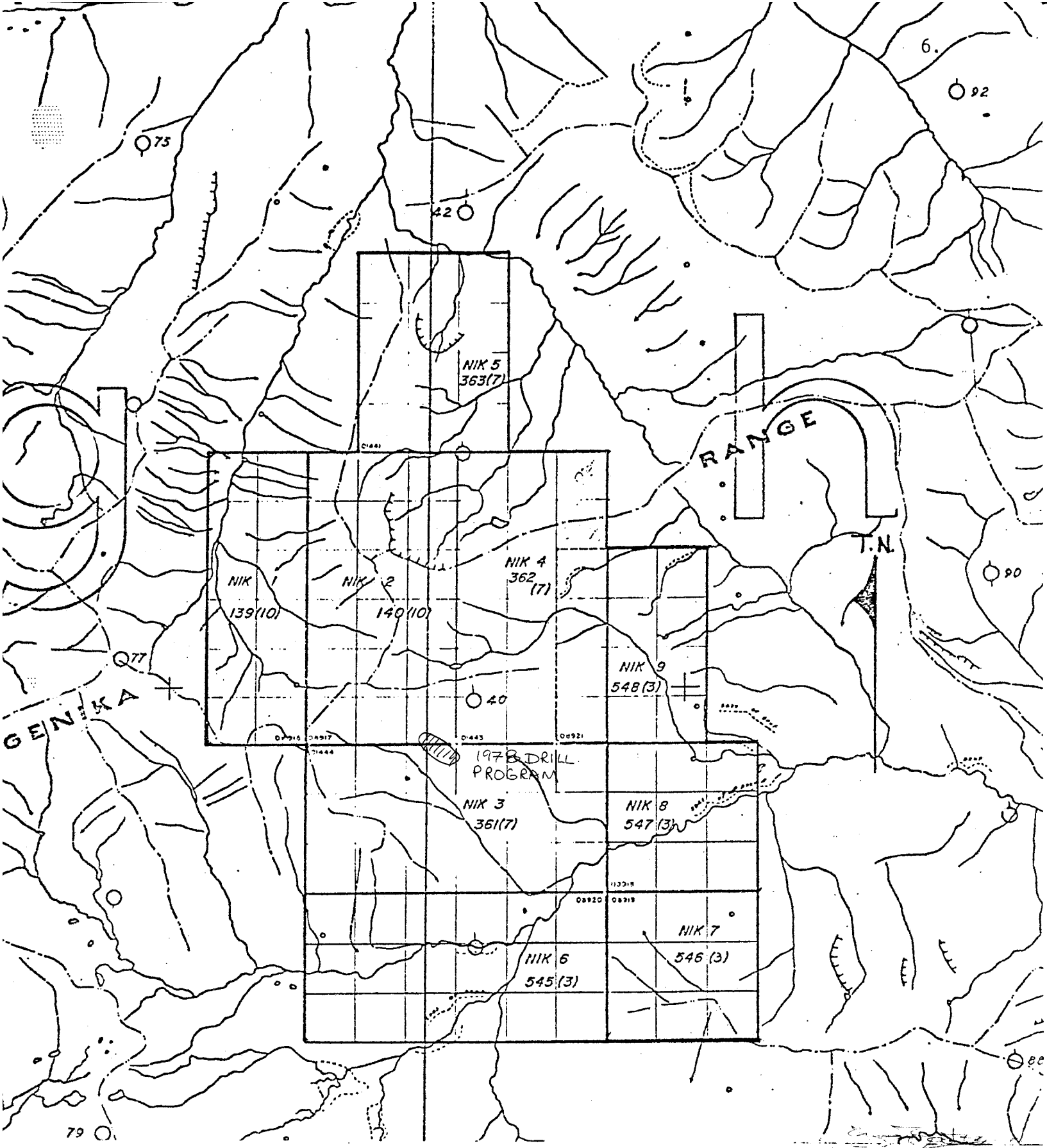
5 km

BP Minerals Limited

**TOODOGGONE - MESILINKA, B.C.
INGENIKA - NIK
PROPERTY**

SCALE 1 Inch = 250,000 Feet	NTS 94 D	FIG. 1
DATE Oct. 1978	PROJ. 505	

To accompany report: *See sketch*



Claims Grouping
 Nik Property
 1: 50,000
 Figure 12

C. NIK 3 - Drilling Costs NDH #18

1. Direct drilling

casing	0-12',	12'@ \$14.20	\$ 170.40
coring	12'-491',	479'@ \$14.20	<u>6,801.80</u>
			\$6,972.20

2. Indirect drilling

labour	26 hours @ \$17.00/hr	\$ 442.00
drill	6 hours @ \$37.00/hr	<u>222.00</u>
		\$ 664.00

3. Helicopter support

3.7 hours @ \$317/hour	<u>\$1,172.90</u>
50% claimed	\$ 586.45

Total cost of NDH #18 \$8,222.65 (\$16.75/ft)
 =====

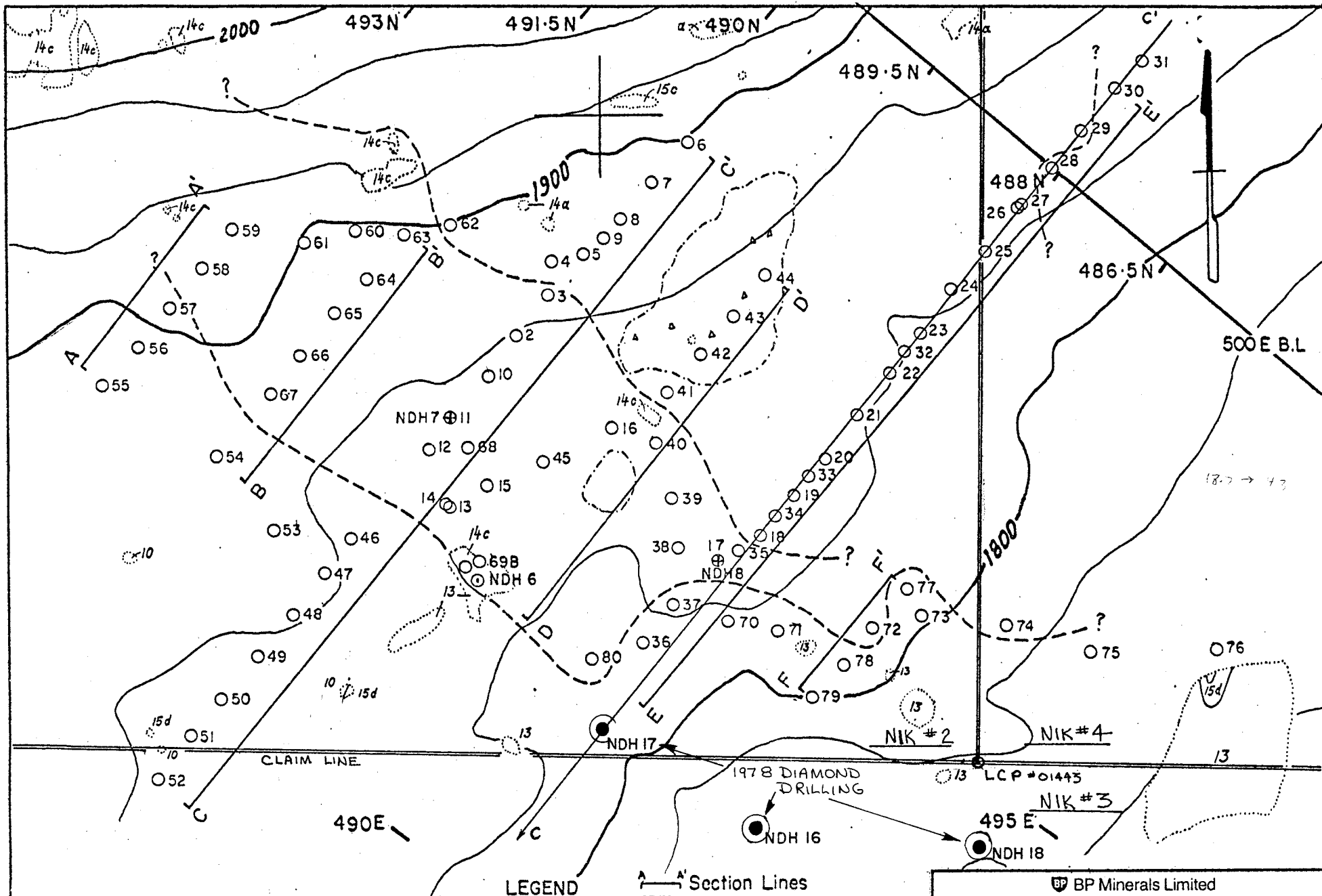
D. Analytical Cost

1. NDH-16	- 65 core samples analyzed for Mo/Cu/N @ \$4.70/sample	\$ 305.50
2. NDH-17	- 33 core samples assayed for Cu/Mo @ \$12.50/sample	412.50
3. NDH-18	- 45 core samples analyzed for Mo/Cu/N @ \$4.70/sample	211.50

E. BP Labour

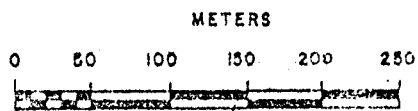
Geologist (S. Hirowatari - \$65 per day)
Assistant (D. Walker - \$40 per day)

1. NDH-16	Sept. 4 - 13, 1978 10 days @ \$105/day	\$1,050.00
2. NDH-17	Sept. 14 - 20, 1978 4 days @ \$105/day	420.00
3. NDH-18	Sept. 21 - 27, 1978 7 days @ \$105/day	735.00



15b	Hornblende diorite
15c	Subporphyritic quartz diorite
15d	Diorite / quartz diorite porphyry
14a	Dunite
14b	Peridotite
14c	Pyroxenite
13	Amphibolite (metavolcanic)

A	Section Lines
10	Ash tuff / lapilli tuff
○	Limit of outcrop
△	Mineralized float
---	Contacts: inferred, defined
○	Suboutcrops
○	Drill holes: percussion;
⊙	diamond; both types



BP Minerals Limited

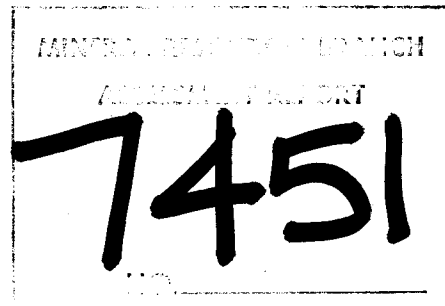
**GEOLOGIC MAP OF SOUTH CIRQUE
WITH ALL 1977 AND 1978
PERCUSSION & DIAMOND DRILL HOLES
NIK CLAIMS**

SCALE 1:5,000	NTS 94 D/9E	FIG. 12
DWG. NO. 79-31	DATE APRIL 1978	Eról 505
To accompany report:		

STATEMENT OF QUALIFICATIONS

C.D.S. Bates - BA (Oxon), MA (Oxon), MSc, DIC.

- 1968 BA Oxford University
(Honours 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)
- 1975 MA Oxford University



THIS AGREEMENT MADE THE 21st DAY OF APRIL, 1978.

BETWEEN: BP MINERALS LIMITED
~~XXXXXXXXXXXXXXXXXXXX~~, a body corporate duly incorporated under
 Canada
 the laws of ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~, and having ~~an~~
 an office at 1199 Pender Street, Vancouver, B.C.
 (hereinafter called the Company)

AND: WRIGHT DRILLING LTD., a body corporate duly 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)

WHEREAS:

- A. The Company has requested the Contractor to complete a minimum 4500' feet of drilling and related services as hereinafter set forth on the property of the Company in the Johanson Lake area.
- B. The Contractor has agreed to do the said Diamond drilling and to perform the related services requested upon the terms, conditions and provisos hereinafter contained:

NOW THEREFORE THIS Agreement witnesseth that in consideration of the payment of the amounts stipulated herein and mutual promises and covenants herein contained, it is understood and agreed by and between the parties as follows:

1. SCHEDULE OF RATES - CORING

The Company hereby employs the Contractor to drill a series of bore holes on the said property using a BQ core barrel producing a core of approximately 1 7/16 inches. The Company agrees to pay the Contractor on a footage basis for all drilling according to the following schedule of rates:

<u>CORING</u>	<u>FROM</u>	<u>TO</u>	<u>PRICE/FOOT</u>
	0'	500'	\$14.20
	500'	800'	\$14.70
 <u>OVERBURDEN</u>			
	0'	25'	\$14.20
	25'	50'	\$14.70
	50 plus		Field Cost

2. TRANSPORTATION AND MOVES

A. It is agreed that the moving of drill and camp equipment, supplies and personnel to the transport discharge point and return from the transport loading point, shall be the Company's account at a lump sum of two thousand five hundred dollars. (\$2500.00)

B. In the event 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 field cost rate.

C. It is agreed that moves between drill sites shall be at the field cost rate. Moving time shall be from the time of completion of pulling to set-up time at the next drill site.

3. WATER SUPPLY

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 Contractor will be paid the extra cost of supplying water to the drill site in addition to the other contract charges.

4. MUD AND ADDITIVES

If ever required to help penetrate the overburden and or aid in core recovery, would be supplied at cost on the job site plus ten percent. Time spent mixing mud and stabilizing the hole would be charged on a field cost basis.

5. REAMING CASING AND CEMENTING

If ever necessary to help prevent cave-ins, would be performed 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 part of this agreement.

7. SECURITY

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

8. BOARD AND LODGING

The Contractor agrees to provide board and lodging for Contractor's crew.

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

9. CORE BOXES

It is mutually agreed, that if requested, core boxes would be supplied on the job site at cost, plus ten percent (10%).

10. 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 at a field cost basis.

15. FIELD COST

(field cost)

It is agreed that the hourly/rate shall be interpreted here and hereinafter to be thirty-seven dollars per hour, per drill outfit. It is also agreed that the Contractor shall include in the hourly rate the cost of supplying a regular two man drill crew, and maintenance as required, drilling machinery and associated equipment.

In the event labour over and above the regular two man crew and supervision are required, the Contractor agrees to supply such additional labour at the rate of seventeen dollars per man per hour.

It is further agreed and understood that when the Contractor is working at the field cost rate, the cost of drill rods and casing lost or left in the hole, diamond articles and materials and supplies consumed in the work shall be for the Company's account at cost, plus 15%.

16. PAYMENT

The Company agrees to pay the Contractor, in Canadian funds the above prices. Payment to be made within 15 days of the date of the account rendered. Invoices shall be submitted twice monthly.

17. COMPENSATION AND INSURANCE

The Contractor agrees that the men employed by him in the performance of this Contract shall be fully covered under Worker's Compensation laws according to the province of British Columbia and will keep such men covered and will pay the assessment required and will protect the Company from any action arising therefrom, excluding however, claims arising out of any negligent act or omission of the Company, its servants or agents.

The Contractor shall, at his own cost, maintain liability and Property damage insurance in the amount of one million dollars (\$1,000,000.00)

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

18. 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 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.

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.

19. 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.

20. FORCE MAJEURE

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

21. 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.

22. 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.

By *[Signature]* DIRECTOR *[Signature]* SECRETARY
XXXXXXXXXXXXXXXXXX
BP/MINERALS LIMITED

By *[Signature]*
WRIGHT DRILLING LTD.

AMENDED BY RESOLUTION
7451

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

6455 Laurel St., Burnaby, B.C. V5B 3B4

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

Tel: 299-5242

505

File No. 8841

ANALYSES CERTIFICATE

Type of Samples Cores

NDH 78-16

Disposition

From Mr. R. Wong

No.	Sample	Mo	Cu	Ni						No.
01	NDH78-16 25-40	7	800	98						01
02	40-50	75	870	72						02
03	50-60	1	975	70						03
04	60-70	90	840	16						04
05	70-80	25	535	21						05
06	80-90	34	220	35						06
07	90-100	65	480	40						07
08	100-110	2	520	41						08
09	110-120	220	515	20						09
10	120-130	126	325	16						10
11	130-140	14	490	17						11
12	140-150	11	700	38						12
13	150-160	23	215	18						13
14	160-170	17	395	35						14
15	170-180	6	210	40						15
16	180-190	4	400	30						16
17	190-200	8	235	39						17
18	200-210	1	605	46						18
19	210-220	6	475	36						19
20	220-230	13	1200	39						20
21	230-240	940	1240	28						21
22	240-250	14	370	37						22
23	250-260	90	325	35						23
24	260-270	3	194	33						24
25	270-280	56	2000	44						25
26	280-290	37	1620	31						26
27	290-300	72	645	46						27
28	300-310	11	2350	56						28
29	310-320	700	1500	43						29
30	320-330	51	265	36						30
31	330-340	23	755	35						31
32	340-350	11	660	36						32
33	350-360	26	495	32						33
34	360-370	24	840	33						34
35	370-380	15	2650	39						35
36	380-390	38	9900	31						36
37	NDH78-16 390-400	10	3600	41						37
38										38
39										39
40										40

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DATE SAMPLES RECEIVED Sept. 15, 1978
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 ANALYST Normi [Signature]

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

6455 Laurel St., Burnaby, B.C. V5B 3B4

Tel: 299-5242

TO BP Minerals Ltd.,

File No. 8841

Type of Samples Cores

Disposition _____

ANALYSES CERTIFICATE

From R. Wong

No.	Sample	Mo	Cu	Ni							No.
01	NDH78-16 400-410	38	840	44							01
02	410-420	56	580	32							02
03	420-430	37	515	33							03
04	430-440	29	80	27							04
05	440-450	43	78	70							05
06	450-460	3	34	41							06
07	460-470	130	98	39							07
08	NDH78-16 470-480	46	54	35							08
09											09
10											10
11											11
12											12
13											13
14											14
15											15
16											16
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39											39
40											40

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ANALYST R. Wong

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

6455 Laurel St., Burnaby, B.C. V5B 3B4

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

Tel: 299-5242

NIK Geod
Dwell
28-16

File No. 8850

Type of Samples Cores

Disposition

ANALYSES CERTIFICATE

No.	Sample	Mo	Cu	Ni									No.
01	NDH78-16 480-490	115	445	28									01
02	490-500	190	1950	25									02
03	500-510	39	1350	84									03
04	510-520	68	920	50									04
05	520-530	50	1040	36									05
06	530-540	158	620	58									06
07	540-550	52	168	23									07
08	550-560	42	160	23									08
09	560-570	34	1150	44									09
10	570-580	42	540	40									10
11	580-590	17	1300	25									11
12	590-600	170	1500	50									12
13	600-610	38	550	27									13
14	610-620	46	460	62									14
15	620-630	82	2100	60									15
16	630-640	102	102	62									16
17	640-650	94	174	46									17
18	650-660	720	176	58									18
19	660-670	440	184	50									19
20	NDH78-16 670-675	22	80	35									20
21													21
22													22
23													23
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40													40

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ANALYST *Alan [Signature]*

99
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Assaying & Trace Analysis

6455 Laurel St., Burnaby, B.C. V5B 3B4

Tel: 299-5242

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

File No. 8852

Type of Samples Cores

Disposition _____

ANALYSES CERTIFICATE

NDH 78-17

No.	Sample	Mo	Cu	Ni							No.
01	NDH78-17 9-20	2	84	64							01
02	20-30	9	160	66							02
03	30-40	7	114	70							03
04	40-50	8	162	78							04
05	50-60	36	230	90							05
06	60-70	17	400	110							06
07	70-80	10	395	112							07
08	80-90	2	220	110							08
09	90-100	160	680	40							09
10	100-110	92	500	78							10
11	110-120	82	645	134							11
12	120-130	9	445	144							12
13	130-140	18	350	176							13
14	140-150	4	220	290							14
15	150-160	11	94	118							15
16	160-170	45	76	98							16
17	170-180	88	53	72							17
18	180-190	13	49	82							18
19	190-200	7	80	148							19
20	200-210	54	335	130							20
21	210-220	64	200	116							21
22	220-230	33	130	114							22
23	230-240	28	170	98							23
24	240-250	27	112	114							24
25	250-260	68	52	166							25
26	260-270	6	58	178							26
27	270-280	17	52	186							27
28	280-290	16	72	200							28
29	290-300	18	265	196							29
30	300-310	23	152	194							30
31	310-320	35	108	150							31
32	320-330	19	80	144							32
33	330-340	7	520	142							33
34	NDH78-17 340-350	1	41	128							34
35											35
36											36
37											37
38											38
39											39
40											40

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DATE SAMPLES RECEIVED Sept. 20, 1978
 DATE REPORTS MAILED Sept. 22, 1978
 ANALYST Kenner Jeff

Certificate of Assay

TO: B.P. Minerals Ltd.,

PROJECT No. _____

1199 West Pender St.,DATE Oct. 4/78.Vancouver, B.C.File No. 8-488

SAMPLE No.	Mo %	Cu %	Footage	
78451	.007	.026	350 - 360	
52	.007	.020	370	
53	.004	.342	380	
54	.007	.489	390	
55	.007	.078	400	
56	.002	.134	410	
57	.022	.148	420	
58	.005	.046	430	
59	.004	.037	440	
60	.003	.032	450	
61	.003	.021	460	
62	.003	.044	470	
63	.002	.075	480	
64	.002	.029	490	
65	.002	.032	500	
66	.002	.015	510	
78467	.003	.012	520	

MIN-EN Laboratories Ltd.

CERTIFIED BY J. Balach

Certificate of Assay

TO: B.P. Minerals Ltd.,

PROJECT No. _____

1199 West Pender St.,DATE Oct. 4/78.Vancouver, B.C.File No. 8-488

SAMPLE No.	Mo %	Cu %	Footage	
78535	.004	.019	520 - 530	
36	.005	.011	540	
37	.003	.009	550	
38	.003	.014	560	
39	.003	.010	570	
40	.005	.158	580	
41	.006	.107	590	
42	.002	.014	600	
43	.002	.010	610	
44	.005	.021	620	
45	.003	.030	630	
46	.002	.025	640	
47	.003	.036	650	
48	.003	.016	660	
49	.003	.012	670	
78550	.009	.020	677	

MIN-EN Laboratories Ltd.

CERTIFIED BY J. Balch

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

Tel: 299-5242

TO BP Minerals Ltd.,
405 - 1199 W. Pender St., 6455 Laurel St., Burnaby, B.C. V5B 3B4
Vancouver, B. C. V6E 2R1

File No. 8886

ANALYSES CERTIFICATE

Type of Samples Cores

Disposition _____

Nik Mine

NDH 78-15,18

No.	Sample	Mo	Cu	Ni							No.
01	NDH78 15 30-40	1	176	700							01
02	40-50	1	106	945							02
03	50-60	1	90	780							03
04	60-70	45	170	235							04
05	70-80	1	160	420							05
06	80-90	1	48	630							06
07	15 90-97	1	120	490							07
08											08
09	18 37-50	8	152	42							09
10	50-60	9	164	39							10
11	60-70	8	200	50							11
12	70-80	7	164	52							12
13	80-90	8	270	54							13
14	90-100	4	144	33							14
15	100-110	11	178	39							15
16	110-120	17	235	50							16
17	120-130	9	186	74							17
18	130-140	4	70	74							18
19	140-150	11	310	58							19
20	150-160	14	112	50							20
21	160-170	20	130	42							21
22	170-180	88	345	48							22
23	180-190	120	340	52							23
24	190-200	290	600	62							24
25	200-210	330	395	62							25
26	210-220	210	540	64							26
27	220-230	16	485	98							27
28	230-240	23	164	40							28
29	240-250	4	355	42							29
30	250-260	350	245	48							30
31	260-270	14	270	52							31
32	270-280	15	275	48							32
33	280-290	25	500	42							33
34	290-300	6	114	40							34
35	300-310	4	250	52							35
36	310-320	5	230	64							36
37	320-330	320	460	84							37
38	NDH78 18 330-340	86	490	39							38
39											39
40											40

BP Minerals Limited
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DATE SAMPLES RECEIVED Oct. 2, 1978
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 ANALYST [Signature]

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

6455 Laurel St., Burnaby, B.C. V5B 3B4

TO BP Minerals Ltd.

Tel: 299-5242

File No. 8886

Type of Samples Cores

Disposition

ANALYSES CERTIFICATE

Nik Mine

2

No.	Sample	Mo	Cu	Ni							No.
01	NDH78 18 340-350	174	900	47							01
02	350-360	11	310	40							02
03	360-370	47	285	70							03
04	370-380	23	152	72							04
05	380-390	2	310	37							05
06	390-400	8	144	46							06
07	400-410	67	355	54							07
08	410-420	12	275	48							08
09	420-430	9	245	53							09
10	430-440	28	260	46							10
11	440-450	23	1600	32							11
12	450-460	12	3450	42							12
13	460-470	95	320	33							13
14	470-480	130	315	32							14
15	NDH78 18 480-491	35	154	43							15
16											16
17											17
18											18
19											19
20											20
21											21
22											22
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38											38
39											39
40											40

MINERAL SERVICES DIVISION
 7451

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 DATE REPORTS MAILED Oct. 5, 1978
 ANALYST Dean [Signature]



DRILL LOG

SHEET NO. 1 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	D.D.H.		
NJK				486.5N-12m		493.25E						104-28	-16
DATE STARTED		DATE COMPLETED		SURVEYS	-75°	Top of CASING	GRID EAST	HOLE SIZE	TOTAL DEPTH	STRUCTURE			Graph Log
Aug 28/78													
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log			
From	To	Length	% Rec				F	V/FI	F/FI				
0	25'	-	-	OVERBURDEN - Amphibolite, Hb. Diorite, Hbite.	-	-	<h1>7451</h1>						
25'	40'	6.8	45%	- From 25-40' Hbite, mod. magnetic, variable grain size approx. 40% mafics (Hb); composed of feldspar and hornblende; does not have 'granitic' type texture.	- Weak propylitic alt ⁿ weak epidote alt ⁿ of feldspar.	- Trace (<1%) very f.g. CP dissem in Hbite. - Trace (<1%) f.g. PY dissem in Hbite PY > CP	50-60	0-1	4				
40	50'	9.7	97%	- From 40-50' Hbite; mod magnetic; variable grain size; At 40.5' a very f.g. clast? (weakly mod mag) with gradational contact with coarser grnd. Hbite.	- Weak propylitic alt ⁿ weak epidote alt ⁿ of feldspar.	- Approx 1% very f.g. dissem CP and PY (avg). At 42' a 1" veinlet of PY with some dissem CP PY ~ CP	50-60	0-1	3				
50	60'	8.2	82%	- From 50-60' Hbite; mod magnetic; At 53.5' another f.g. clast? - sharp lower contact with Hbite.	- Weak propylitic alt ⁿ weak epidote alt ⁿ of feldspar. - Presence of some calcite veinlets.	- Approx 1-2% CP - occurs as f.g. dissem, as well as blebs. and veinlets. - Approx 1-2% PY - occurs predom as f.g. irreg. dissem. PY ~ CP.	70-80	0-1	6				
60	70'	9.1	91%	- From 60-62' Hbite; mod magnetic. - From 62-70' Hb Diorite, non magnetic; irreg. granular; ~15-20% mafics ^(Hb) locally, very reddish alt ⁿ of feldspar; upper contact with Hbite, sharp.	- Strong epidote alt ⁿ along fract; weak-mod pervasive; Presence of some calcite veinlets. - Very little alt ⁿ of Hb. - Diagenetic magnetite veinlet	- Approx 5% PY - occurs predom as dissem, also in veinlets; dissem surrounded by epidote. - Trace dissem CP PY > CP	50-65	0-1	6				

Hb. Diorite = probably secondary Hb. Diorite of
 Apparent field.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										2 of 14	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H.	
Aug 28/78						BQ				NDH-78 16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/FI	F/FI		
70	80'	9.5	95%	- From 70-72.5 Hb Diorite; non magnetic, except magnetite veinlets; lower contact with Hbite, sharp @ ~ 20° to core axis. [PY veinlet follows contact] - From 72.5-80' Hbite; mod magnetic	- Weak pervasive epidote dissem in Hb. Diorite - Weak-mod epidote alt ² in Hbite - Presence of some calcite veinlets - Magnetite in Hb. Diorite	Approx 5% PY in Hb Diorite - occurs as dissem and veinlets. Trace CP in Hb Diorite; PY >> CP. - Approx 1% PY in Hb. B - occurs predom as veinlets, minor dissem. Trace CP: PY >> CP.	50-60			4	
80	90'	9.4	94%	- From 80-90' Hbite; mod magnetic; variable grain size; variable % mafics - around 80' greater % feld than mafics, near 90' greater % mafics than feld.	- Weak pervasive epidote alt ² - mod to strong epidote along fract. s. - strong pervasive epidote from 83-84'. Also reddish mineral - thulite? - Minor calcite veinlets	- Approx 1% very f.g. irreg. dissem PY in Hbite. - No visible CP. PY >> CP.	30-40			4	
90	100'	8.9	89%	- From 90-100' Hbite; mod magnetic; grain size ~ consistent throughout 10' section - Broken rock frags from 91.5-93', rest of core = solid.	- Weak-mod epidote alt ² in Hbite. - Minor calcite veinlets	- Approx 1% PY in Hbite - occurs as predom as small veinlets, also f.g. dissem. Trace CP. PY >> CP.	30-40			5	
100	110'	9.3	93%	- From 100-110 predom Hbite; mod magnetic; from 107-110 a dark black, very f.g. (solid Hb?) dike - runs subparallel (~ 10°) to core axis within the Hbite; very sharp contacts of the dike on the Hbite.	- Weak-mod epidote alt ² in Hbite - Minor calcite veinlets	Approx 1% PY in Hbite - occurs predom as veinlets, also as f.g. dissem. Trace CP along veinlets PY >> CP. - Min. absent in black dike	20-30			4	
110	120'	9.5	95%	- From 110-~115 Hb Diorite; non magnetic; ~ 15 to 20% mafics (predom Hb, fresh). Upper contact with Hbite sharp @ 20° to core axis. - From 115-116.5 Hbite; mod magnetic; both upper and lower contacts grad. over ~ 6"; strong epidote alt ² - diagnostic - From 116.5-120 Hb. Diorite; non magnetic;	- Strong epidote alt ² (pervasive) in Hbite. - Hb Diorite shows mod epidote alt ² near Hbite; elsewhere weak epidote alt ² .	- Approx 1% PY in Hb Diorite - occurs predom along fract. s. - Approx 1-2% PY in Hbite - occurs predom as veinlets	40-50			6	

7451

BP

DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		SHEET NO.	
NIK										3 of	14
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Aug 28/78						3Q				NDH-78 D.D.H. -16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	% Rec				F	V/FI	F/FI		Log
120	130'	9.0	90%	<ul style="list-style-type: none"> -From 120-122.5 Hb Diorite ; non magnetic -From 122.5-123.5 Hbite ; mod magnetic ; upper contact appears to be sharp, lower contact sharp @ ~ 20° to core axis. -From 123.5-125.5 Hb. Diorite, non magnetic ; lower contact @ 125.5' sharp. -From 125.5-128 Hbite ; mod magnetic ; contact @ 128' sharp @ 30° to core axis. -From 128-130 Hb Diorite 	<ul style="list-style-type: none"> -Mod-strong epidote alt² along fract^s in Hb Diorite - weak pervasive. -Mod epidote alt² in Hbite. -Hematite stain along fract^s in Hb Diorite @ 122' 	<ul style="list-style-type: none"> -Mc along fract^s at contact between Hbite and Hb Diorite @ 128'. Contact has strong epidote alt², very vuggy. -Approx 1% PY in Hb Diorite and Hbite - occurs predom as fract fill 	40- 20	0-1	7		
130	140'	9.7	97%	<ul style="list-style-type: none"> -From 130-136.5 Hb Diorite ; non magnetic ; approx 15-20% mafics (Hb) - fresh ; -From 136.5-140 Hbite ; mod. magnetic ; upper contact with Hb. Diorite, sharp @ ~ 30° to core axis. 	<ul style="list-style-type: none"> -Mod-strong epidote alt² along fract^s in Hb. Diorite, - weak pervasive. -Weak to mod epidote alt² in Hbite. 	<ul style="list-style-type: none"> -Approx 2% PY in Hb Diorite - occurs as f.g. dissem as well as fract. fill. - <1% f.g dissem PY in Hbite. 	50- 20	0-1	7		
140	150'	8.9	89%	<ul style="list-style-type: none"> -From 140-149.5 Hbite ; mod. magnetic ; -From 149.5-150 light black, very f.g., hornblende dike?? weak - mod. magnetic ; upper contact with Hbite sharp (~ 50° to core axis??). 	<ul style="list-style-type: none"> -Weak to mod epidote alt² in Hbite. -Possible hematite? staining along fract^s in Hbite and Hb dike? -mod-strong epidote along fract^s in Hb dike 	<ul style="list-style-type: none"> -Approx 1% f.g. dissem PY in Hbite. -At 140.5 trace CP on fract. -Approx 1% PY in Hb. dike - occurs predom as small veinlets. 	40- 20	0-1	5		
150	160'	9.6	96%	<ul style="list-style-type: none"> -From 150-151 light black, very f.g., hornblende dike?? ; weak - mod magnetic. -From 151-160 Hbite ; mod magnetic ; lower contact with of Hb. dike? with Hbite, sharp. 	<ul style="list-style-type: none"> -Weak to mod epidote alt² in Hbite. -Mod-strong epidote along fract^s in Hb. dike. 	<ul style="list-style-type: none"> -Approx. 1% f.g. dissem PY in Hbite -Trace CP and mo along fract^s. -Approx 1% PY in Hb dike - occurs predom as small veinlets 	40- 20	0-1	4		
160	170'	9.0	90%	<ul style="list-style-type: none"> -From 160-170 Hbite ; mod. magnetic ; variable grain size over 10 ft. section. 	<ul style="list-style-type: none"> -Weak - mod epidote alt² in Hbite. 	<ul style="list-style-type: none"> -Approx 1-2% PY in Hbite - occurs both as f.g. dissem and fract. fill. 	30- 10	0-1	4		

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DRILL LOG

SHEET NO. **14**

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										4 of 14	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H.	
Aug 28/78						BQ				NDH-78 -16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	% Rec				F	V/F	F/F		
170	180'	9.5	95%	- From 170-180 Hbite; mod magnetic - At 172 a 2" wide clast - amphibolite?; has very small (<1mm) feld. xtals, numerous small veinlets; contacts sharp @ ~ 40° to core axis.	- Weak - mod epidote alt ² in Hbite. - Weak - mod epidote alt ² along fract ^s in amphibolite.	Approx 1-2% PY in Hbite - occurs as f.g. dissem and fract. fill. - Trace dissem PY in amphibolite clast.	40-60 30	0-1	3		
180	190'	9.8	98%	- From 180-190' Hbite; mod. magnetic	- Weak to mod epidote alt ² in Hbite; - Numerous calcite veinlets	Approx 1% PY in Hbite - occurs predom along fract ^s , some f.g. dissem. - Trace CP @ 186 (dissem) PY >> CP.	40 60	1-2	2		
190	200'	9.3	93%	- From 190-200' Hbite; mod. magnetic; from 190--195 Hbite appears similar to previous (6) ~ 50% mafics (Hb); from 195-200 Hbite? - predom. all mafics, very little feldspar. contact between the two = grad. over ~ 6".	- Weak - mod epidote alt ² in Hbite.	Approx 1% PY in Hbite - occurs predom along fract ^s , some f.g. dissem. - At 192' trace CP along fract ^s PY >> CP.	40 30 60	1-2	4		
200	210'	9.1	91%	- From 200-210' Hbite; mod magnetic; ~ 50% mafics (Hb); - At 203' a 2" wide clast of amphibolite; very small feld. xtals; contact of amphibolite on Hbite sharp @ ~ 30° to core axis.	- Weak to mod epidote alt ² in Hbite.	Approx 1% PY in Hbite - occurs predom along fract ^s . - No visible min in amphibolite.	40 50	1-2	4		
210	220'	9.7	97%	- From 210-220 Hbite; mod. magnetic; ~ 50% mafics (Hb)	- Weak to mod epidote alt ² in Hbite. - Presence of calcite veinlets.	Approx 1% PY in Hbite - occurs predom. along fract ^s . - At 219' dissem CP = trace PY >> CP.	40-50 30	1-2	5		

Pyroxene Hbite or Hb pyroxenite (cross-section)

7451



DRILL LOG

SHEET NO. 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. D.D.H.
NIK										
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO. D.D.H.
Aug 28 / 78						80				
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	% Rec				F	V/FI	F/FI	
220	230'	9.0	90%	- From 220-230' Hbite; mod. magnetic; ~50% mafics; dominant fract 0-10°;	- Weak to mod epidote alt ^d in Hbite - Presence of calcite veinlets - Some hematite stain on fract.	Approx 1% PY in Hbite - occurs predom as fract fill, also f.g. dissem. - Trace CP along fract @ 230'	0-10 50-60	1-2	5	
230	240'	8.6	86%	- From 230-240' Hbite; mod. magnetic; ~50% mafics (Hb)	- Weak-mod epidote alt ^d in Hbite - Calcite veinlets	- From 230.6 - 231 strong mo esp. along fract @ 60° to core axis; strong epidote alt ^d - Approx 1% PY in Hbite - occurs predom. as fract. fill.	50-60	1-2	7	
240	250'	9.3	93%	- From 240-250' Hbite; mod magnetic; ~50% mafics (Hb); - From 245-246 a dark block, very f.g., hornblende dike?? Both upper and lower contacts = irregular sharp.	- Weak to mod epidote alt ^d in Hbite. - Calcite veinlets	Trace mo in hornblende dike? at 246'. - occurs as dissem and fract. fill. - Approx 1% PY in Hbite - predom as fract fill.	50-60	1-2	8	
250	260'	9.5	95%	- From 250-256' Hbite; mod. magnetic; ~50% mafics (Hb) - From 256-260' amphibolite; non magnetic; many small (up to ~1mm) feldspar xtals within darker gndmass. Upper contact = sharp?; K-spar and Qtz along fract @ 259'.	- weak to mod epidote alt ^d in Hbite. - Mod to strong epidote along fract in amphibolite	- Approx 1% PY in Hbite - predom as fract. fill. - Trace CP within K-spar-Qtz fract @ 259' PY >> CP.	40 0-10	1-2	8	7-7
260	270'	8.8	88%	- From 260 - ~260.5 overburden slumping; - From 260.5 - 270' amphibolite; feldspar within darker gndmass; feld gns up to ~3mm;	- Mod-strong epidote along fract in amphibolite weak pervasive.	Approx. 1% f.g dissem PY in amphibolite	40 60	1-2	5	

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DRILL LOG

SHEET NO. 122

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										6 of 14	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Aug 28 / 78						BQ				NDH-78 D.D.H. -16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	% Rec				F	V/FI	F/FI		Log
270	280	9.8	98%	-From 270-280 amphibolite; non magnetic; K-spar and quartz along fract.	-Mod to strong epidote alt ² along fract. - Some hematite stain along fract.	-Approx 2% f.g. dissem PY in amphibolite. - CP dissem within K-spar fract fill. PY >> CP.	50- 60	1-2	4		
280	290'	9.0	90%	-From 280-290' amphibolite; non magnetic; K-spar and quartz along fract - CP min conc. within K-spar + quartz; vuggy nature of K-spar along fract.	-Mod to strong epidote alt ² along fract. - Hematite stain along fract.	- CP dissem within K-spar - Qtz fract. - Approx 2% f.g. dissem PY in amphibolite PY >> CP.	50- 60 30	1-2	7		
290	300'	7.2	72%	-From 290-300' amphibolite; non - slightly magnetic; - Low % rec between 296-299.	-Mod to strong epidote alt ² along fract; weak pervasive epidote alt ² . - Numerous calcite veinlets, locally vuggy. - Abundant hematite stain along fract.	Trace CP dissem within K-spar, Qtz fract; CP found only @ 291 where fract. has vuggy nature. Approx 1-2% PY - occurs predom as fract fill, also f.g. dissem.	50- 60 30	2-3	7		
300	310'	9.8	98%	-From 300-302 predom amphibolite; non-slightly magnetic; clasts of Hbite in amphibolite; abundant calcite veining in this section. - From 302-310' Hbite; mod magnetic; upper contact with amphibolite = hybrid within ~ 2 ft.	-Mod to strong epidote alt ² along fract in amphibolite. - weak-mod epidote alt ² in Hbite; - Numerous calcite veinlets predom in amphibolite. - Hematite stain along fract.	Trace CP in amphibolite - occurs as dissem as well as fract fill. CP > PY. Trace to 1% CP in Hbite - occurs predom along fract. CP > PY.	50- 60 30	2-3	3		
310	320'	9.7	97%	-From 310-320' Hbite; mod magnetic;	mod to strong epidote alt ² . - Presence of few calcite veinlets. - Hematite staining along fract.	At 312.5 a 3" section of abundant neo along fract (50° to core axis); also trace CP along fract. - Trace to ~ 1% PY in Hbite over 10' section - occurs predom as fract. fill. PY > CP.	40- 50	2-3	4		

Hornblende

7451



DRILL LOG

SHEET NO. 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H.
Aug 28/78						BQ				
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	% Rec				F	V/FI	F/FI	
320	330'	8.8	88%	- From 320-322' Hbite; mod. magnetic - From 322-330' Amphibolite; non magnetic; Upper contact with Hbite gradational over ~ 1 ft.	- Weak to mod epidote alt ² in Hbite; - Weak to mod epidote alt ² in Amphibolite	Trace mo along fract in Hbite @ 321'; trace CP along fract. PY > CP. - Approx 1% PY in amphibolite - occurs predom in veinlets.	50-60 20	1-2	8	
330	340'	9.3	93%	- From 330-340 amphibolite; non magnetic; small feldspar gns within f.g. dark gndmass.	- Mod to strong epidote alt ² along fract. - weak pervasive. - Calcite veining	Approx 1% PY in amphibolite - occurs as fract fill and dissem. - Trace CP in amph. occurs predom as f.g. dissem. PY >> CP	30-40 60	1-2	7	
340	350'	9.8	98%	- From 340-350' amphibolite; non magnetic; numerous feldspar? veinlets show offset. - Overburden slumping from 347-347.5; Roundish frags of Hb Diorite and Hbite.	- Mod to strong epidote alt ² along fract. - weak to mod pervasive epidote alt ² . - Calcite veinlets.	Approx 2% f.g. dissem PY in amphibolite. - Trace f.g. dissem CP. PY >> CP.	0-10 30-40	2-3	7	
350	360'	8.2	82%	- From 350-360 amphibolite; non magnetic; feldspar within f.g. dark gndmass up to ~ 1 mm.	- Mod-strong epidote alt ² along fract. - weak pervasive alt ² . - Some calcite veinlets.	- Approx 2-3% f.g. dissem PY in amphibolite. - Trace CP - occurs predom as small veinlets also f.g. dissem. PY >> CP.	10-50	2-3	4	
360	370'	10	100%	- From 360-370 amphibolite, non magnetic;	- Mod-strong epidote alt ² along fract. - Numerous calcite veinlets - Presence of some hematite staining.	- Approx 3% PY - occurs predom as fract fill, also f.g. dissem - Trace to 1% CP - occurs commonly, with PY in small veinlets, also f.g. dissem. PY >> CP.	40-50 50	2-3	3	

HORNETS

7451

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										NOH-78 D.D.H. -16	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Aug 28 /78						BQ				NOH-78 -16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/FI	F/FI		Log
370	380	9.0	90%	- From 370-380 amphibolite; non magnetic; Qtz-K-feld fract fill.	- Mod to strong epidote alt ² along fract. - Presence of some calcite veinlets	- Approx 2-3% PY - occurs predom as fract. fill. - Trace to 1% CP - occurs predom as fract. fill with PY PY > CP	50- 60 30	2-3	4		
380	390'	9.5	95%	- From 380-390' amphibolite; non magnetic; from 382' to 383' area of Qtz-K-feld pegmatite; pink color, vuggy, very high % Cu (~7-10%)	- Mod to strong epidote alt ² along fract. - Calcite veinlets.	- Strong CP in some areas (predom near Qtz-K-feld fract fill), high % Cu, - occurs predom as veinlets. - Over most of 10' section ~1% CP CP > PY - Trace mo @ 383'	10- 50 0-10	2-3	3		
390	400'	9.1	91%	- From 390-400' amphibolite; non magnetic; from 392.5 to ~394 area of Qtz-K-feld pegmatite, pinkish color, vuggy, strong epidote alt ² ; high % Cu (~10%?), abundant magnetite with CP and epidote - Overburden slumping @ 397' - [Possible clast of Hbite within amphibolite @ 391']	- Mod to strong epidote alt ² along fract's; strong epidote near Qtz-feld Peg. - Few calcite veinlets	- Very high % CP near Qtz-K-feld Peg - occurs as blobs and veins; % CP ~ 10%?? CP > PY @ Qtz-feld area. - Over rest of section ~ 2% PY, trace CP. PY >> CP	10- 50 0-10	2-3	5		
400	410'	9.5	95%	- From 400-407' definite amphibolite; non magnetic. - From ~407-410' indistinct; possible Hbite; slickensides @ 407', approx 90° to core axis	- Weak to mod epidote alt ² along fract's as well as dissem. - Presence of calcite veinlets.	- Approx 1% PY - occurs predom as veinlets, some f.g. dissem. - Trace CP - occurs predom as veinlets PY > CP	0-10 40- 50	2-3	5		
410	420'	8.9	89%	- From 410 to ~418' indistinct; appears to be predom Hbite; - Slickensides @ 415' show same direction as previously. [~90° to core axis] - From 418 to 420 pyroxenite; predom all mafics - no visible feldspar gns. as in amphibolite.	- Weak to mod epidote alt ² along fract's. - Presence of calcite veinlets.	- Approx 1% PY - occurs predom as veinlets - Trace CP - occurs predom as veinlets. - Trace mo along fract's PY >> CP	0-10 50- 60	2-3	6		

(higher in some facies?)
 Amphibolite

7451



DRILL LOG

SHEET NO. 9 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										9 of 14	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Aug 28/78						BQ				D.D.H. 1014-78-16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/FI	F/FI		
420	430'	9.8	98%	- From 420-430' pyroxenite; slightly magnetic; predom all mafics, no visible feldspar grs. as in amphibolite.	- Weak to mod epidote alt ² along fract. weak pervasive. - Presence of few calcite veinlets	<1% dissem PY in pyroxenite. - Trace mo along fract. (<1%) - No visible CP.	50-60	1-2	3	P	
430	440'	100	100%	- From 430-440 pyroxenite; slightly magnetic; - Slickensides @ 435' makes a 30° angle from the horiz., Fracture surface on which slickensides occur = 30° to core axis	- Weak to mod epidote alt ² along fract. weak pervasive. - Presence of few calcite veinlets.	<1% dissem PY in amphibolite pyroxenite - Trace mo along fract. (<1%).	50-60 0-10	1-2	4	P	
440	450'	9.7	97%	- From 440-450' pyroxenite; slightly magnetic; presence of some Qtz - K feld @ 442.5'	- Weak to mod epidote alt ² along fract. weak pervasive. - Presence of few calcite veinlets.	<1% dissem PY in pyroxenite. - Trace mo dissem @ 442.5 where there is presence of Qtz - K-feld	50-60 30	1-2	4	P	
450	460'	9.6	96%	- From 450-460' pyroxenite; slightly magnetic; At 453.5 and 455' Qtz K-feld veinlet subparallel to core axis, wuggy, strong epidote alt ² , no visible CP or mo. - At 457 a dike? clast? of Hbite? within pyroxenite, sharp contacts.	Weak pervasive epidote alt ² . strong epidote alt ⁴ near Qtz - K-feld veinlet	- No visible dissem PY or CP in pyroxenite. - At 457.1 PY along fract (@ 30° to core axis) with trace mo (<1%)	40-50	1-2	3	P	
460	470'	9.6	96%	- From 460-470' pyroxenite; slightly magnetic.	Weak pervasive epidote alt ⁴ . - Presence of few calcite veinlets.	- No visible dissem PY or CP in pyroxenite - Trace mo along fract (<1%).	40-50 0-10	1-2	2	T	

500-510' 100% Pyroxenite
 450-460' 96% Pyroxenite

7451

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										NDH-78-16	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H.	
Aug 28/78		Sept 13/78				BQ		675'		-16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	% Rec				F	V/Ft	F/Ft		Log
470	480'	7.5	95%	-From 470-480' pyroxenite; slightly magnetic At 470.2 Hbit clast - also @ 477'	Weak pervasive epidote alt ² in pyroxenite. - Presence of few calcite veinlets.	- Trace dissemin PY in pyroxenite. - Mo along fract trace (<1%).	40-50 30	1-2	4	P	
7451											
480	490	8.8	88%	-From 480-490' pyroxenite; slightly magnetic; light to mod. grey green in color; -At 482 vuggy cavities with carb. fill; no visible CP or Mo within vugs. -At 488.5 evidence of overburden slumping.	-Weak pervasive epidote alt ² in pyroxenite - Few carb. veinlets - carb within vugs.	-Trace Mo over 10' section occurs predom as irreg. dissemin and along fract. Mo <1%. -Trace CP near 489. -occurs as irreg dissemin with Mo CP <1%	40-50 20	1-2	5	P	
490	500'	9.6	96%	-From 490-500' pyroxenite; slightly magnetic; mod grey-green in color. -Vuggy cavities throughout 10 ft section, cavities located within feldspar or feld. -pyrox. interface, vugs filled with euhedral xtals of calcite? - also Cu + Mo. -Near 500' less vugs - more stockwork type veinlets with carb. fill. [less Cu + Mo than near 490']	-Weak epidote alt ² in pyroxenite. -Calcite? within vugs. (euhedral rhombs visible). -Light grey-green alt ² envelope around feld. -Sericite? alt ² .	-High grade CP - occurs within vugs and also as irreg dissemin. CP ~ 2% CP >> PY. -Fine gnd irreg dissemin Mo near vuggy or pitted cavities Mo ~ 0.5%? -Min decreasing w/ depth	50-60 20	2-3	4	P	
500	510'	6.7	67%	-From 500-510' pyroxenite; slightly magnetic; mod grey-green in color. -less vugs than previous section and it appears to be less mineralization; euhedral clear xtals within vugs - tremolite? -lt grey-green alt ² envelope around feld. -low % Rec from previous section due to tube not locking @ 507'.	-Weak epidote alt ² in pyroxenite. -Calcite?, tremolite? in vugs. -Carb. fract. fill.	-CP along ~ 30° fract. and f.g. irreg dissemin. CP ≤ 1% -<0.5% Mo as very f.g. irreg dissemin -<0.5% PY. CP > PY	50-60 20	2-3	5	P	
510	520'	10	100%	-From 510-520' pyroxenite; slightly magnetic; mod grey-green in color. -At 515' very vuggy nature of pyroxenite, abundant small euhedral xtals of ?? tremolite?, very strong epidote alt ² along the 30° fract. -At 519.8-520' feld vein; vuggy with similar xtals as previous, no visible min. in vugs. -At 518.5 a very dark black, f.g. dike? = hornblende? subparallel to core axis; contacts sharp with feld vein delineating contacts	-Predom weak epidote alt ² except @ 515'. -Euhedral xtals = tremolite? in vugs. -Some carb fract fill.	-CP along parallel fract, and f.g. irreg dissemin. CP ~ 1% -<0.5% Mo as very fine gnd. dissemin -PY ~ <1% CP ? PY	50-60 30	3-4	3	F	

Pyroxenite 2 and 11, 12

DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										11 of 14	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Aug 28/78		Sept 13/78				BQ		675'		NDH-78 -16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/Ft	F/Ft		Log
520	530'	9.8	98%	<ul style="list-style-type: none"> - From 520-530' pyroxenite; slightly magnetic; mod grey-green in color. - Vuggy nature of rock seen earlier near 515' continues over this 10 ft. section. Mineralization of CP + mo appears to be concentrated more near the pyroxenite-feld contact area (in blbs). - Feld veins from 30° to subparallel to core axis. 	<ul style="list-style-type: none"> - Predom weak epidote alt². - Mod carb fill in vugs. 	<ul style="list-style-type: none"> - CP min. predom in vuggy areas near pite-feld contact. - occurs predom as blebs, elsewhere as f.g. dissem. CP ~ 1% CP > PY - Mo as blebs similar to CP. MO < 0.5% 	50-60	20	2-3	3	P
530	540'	9.7	97%	<ul style="list-style-type: none"> - From 530-540' pyroxenite; slightly magnetic; mod grey-green in color. - Much less vugs than in previous 10 ft. section; vuggy areas conc. along 50-60° fract. with some mo + CP. - At 539' Hb dike seen earlier @ ~ 20° angle to core axis. Within the Hb dike stockwork veinlets of feld? Dike approx 1" wide. 	<ul style="list-style-type: none"> - Predom weak epidote alt² - strong along 0° fract @ 533'. - Carb fill in vugs. 	<ul style="list-style-type: none"> - CP min. predom in vuggy areas - occurs as blebs and as f.g. dissem. CP ≤ 1% CP > PY - mo as very f.g. dissem mo trace. 	50-60	0-10	3-4	3	P
540	550'	9.6	96%	<ul style="list-style-type: none"> - From 540-550' pyroxenite; slightly - mod magnetic; mod grey-green in color. - This section no vuggy cavities as seen previously; mineralization concentrated predom along 50° fract. = CP dissem and blebs - mo smears. - Fine gnd dark black hornblende clast @ 547 and 549.5'. 	<ul style="list-style-type: none"> - Predom weak epidote alt² - Weak pervasive carb. alt² 	<ul style="list-style-type: none"> - CP conc. along 50-60° fract; CP < 1% over 10' section - abundant locally. CP > PY - mo smears along fract. similar to CP. mo << 1% - PY conc along fract. PY < 1% 	40-50		2-3	3	P
550	560'	9.9	99%	<ul style="list-style-type: none"> - From 550-560 pyroxenite; slightly - mod. magnetic; mod grey-green in color. - Fine gnd. dark black hornblende dike @ 555, 557 and 558, subparallel to core axis.; Subparallel nature of contact probably giving rise to the 0-10° fract. 	<ul style="list-style-type: none"> - Predom weak epidote alt² - Weak pervasive carb. alt² 	<ul style="list-style-type: none"> - CP min. predom follows veinlets as small stringers. - some CP irreg. dissem. CP << 1% CP > PY. - PY occurs as similar to CP. PY << 1% - No visible mo. 	40-50	0-10	2-3	4	P
560	570'	8.5	85%	<ul style="list-style-type: none"> - From 560-570' pyroxenite; slightly to mod magnetic; mod grey green in color. - This section has greater % of vugs than previous; strong epidote alt² in vuggy cavities; mineralization of CP and PY in vugs. - no visible mo. - At 563, 566 appears to be Hbite (clasts?). no sharp contacts. 	<ul style="list-style-type: none"> - Predom weak epidote alt². - Weak pervasive carb. alt². 	<ul style="list-style-type: none"> - CP occurs within vugs and also as fract fill. CP < 1% - PY occurs within vugs, as fract. fill and as dissem. PY ~ 1% PY > CP 	40-50	20	2-3	3	P

7451

10' vuggy
 10' vuggy
 10' vuggy

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
NIK										NDH-78 D.D.H. -10			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.			
Aug 28/78		Sept 13/78				BQ		675'		NDH-78 -10			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	% Rec							F	V/FI		
570	580'	9.8	98%	<ul style="list-style-type: none"> - From 570-580' pyroxenite; slightly magnetic; mod grey-green in color. - Vuggy over entire 10 ft. section, esp. from 577.5 to 580'. vugs contain clear xtals seen earlier; CP + mo mineralization conc. near these vuggy areas. - Possible clasts of Hblite @ 575'. - Falted aggregate of tremolite? fibers subparallel to core axis @ 580'. 		<ul style="list-style-type: none"> - Weak to mod epidote alt. - Weak pervasive carb. alt. 		<ul style="list-style-type: none"> CP mineralization conc. in vuggy cavities and along 40° fract. CP < 1% CP > PY Mo along fract. < 0.5% PY in vugs and along fract. < 1% 		50-60 20	2-3	5	P
580	590'	9.3	93%	<ul style="list-style-type: none"> - From 580-590' pyroxenite; slightly magnetic; mod grey-green in color. - Vuggy nature as in earlier 10 ft section; vugs contain clear xtals as previously also carb. areas. CP min. conc. near these areas. - Feld veins near from 588-590 have consistent angles to core axis of 40°. [veins ~ 3/4" wide] - Presence of tremolite fibers @ 581 		<ul style="list-style-type: none"> - Weak to mod epidote alt. - Weak pervasive carb. alt. - Sericite alt. near vuggy areas. 		<ul style="list-style-type: none"> CP mineralization conc. in vuggy cavities and along 40° fract. CP < 1% CP > PY Possible mo along 40° fract. Trace PY near predom near vugs. 		30-40 50	2-3	4	P
590	600'	9.8	98%	<ul style="list-style-type: none"> - From 590-600' pyroxenite; slightly magnetic; mod grey-green in color. - This section less vuggy than previously but has greater amount of veinlets. - At 598 euhedral xtals of pyroxene visible augite? visible 		<ul style="list-style-type: none"> - Weak to mod epidote alt. - Weak pervasive carb. alt. 		<ul style="list-style-type: none"> Mo conc. along a 30° fract @ 596' mo < 0.5% No visible CP. < 0.5% - PY occurs throughout as dissem and as fract fill PY >> CP. 		50-60	3-4	2	P
600	610'	9.5	95%	<ul style="list-style-type: none"> - From 600-610 predom amphibolite? non magnetic; change in appearance of the rock with felsics more abundant than in previous section.; Both upper and lower contacts - hybrid. - At 607' appears to be a section (~6") of pyroxenite. [rep. samples incl]. - No vugs in this section 		<ul style="list-style-type: none"> - Weak to mod epidote alt. - Weak pervasive carb. alt. 		<ul style="list-style-type: none"> CP mineralization weak - occurs as dissem @ 607.5. CP << 1% PY mineralization weak. occurs as very f.g. irreg. dissem. PY > CP. 		50-60	2-3	2	
610	620'	9.6	96%	<ul style="list-style-type: none"> - From 610 to ~ 619 predom amphibolite? non magnetic; rock type similar to above section with kfspar gns. within darker gndmass. - From 619' to 620 indistinct; appears to be predom pyroxenite.; slightly magnetic. 		<ul style="list-style-type: none"> - Weak to mod epidote alt. - Weak pervasive carb. alt. 		<ul style="list-style-type: none"> Fine gnd. irreg dissem PY in amphibolite. PY < 1% PY >> CP. No visible CP or mo. 		50-60 20	2-3	2	

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7451
pyroxenite

DRILL LOG

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO.		
NIK								NDH-78 D.D.H. -16		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH			
Aug 28/78		Sept 13/78				BQ	675'			
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph
From	To	Length	% Rec				F	V/Ft	F/ft	Log
620	630'	9.8	98%	From 620-630' indistinct; Throughout entire 10 ft section areas of pyroxenite and amphibolite with hybrid contacts. Near the bottom of section more towards pyroxenite. - At 629.5 very f.g. dark black area = Hb dike? Trace. mo along fract. [Rep. samples incl.]	- Weak to mod epidote alt ⁿ - Weak pervasive carb alt ⁿ	(Mineralization predom along 30° fract CP << 1% PY > CP. - PY occurs along fract as well as f.g. dissem. PY ~ 1% Mo along fract (small) Mo << 0.5%	50-60	2-3	4	?
630	640'	8.5	85%	- From 630-640 predom pyroxenite; mod magnetic; mod grey-green in color. - Does not appear to be any appearance of amphibolite in this section. - Core broken up from 637-639 thus low % Rec. - Core appears quite 'solid' - no vuggy areas. Slickensides @ 639 ~ 90° to core axis (on fract subparallel).	- Weak to mod epidote alt ⁿ - Weak pervasive carb alt ⁿ	Trace PY in pyroxenite << 1% No visible CP or Mo	30-40	1-2	8	P
640	650'	8.9	89%	- From 640-647.1 pyroxenite; slightly magnetic; mod grey-green in color; no vuggy areas - appears 'pitted'; broken rock frags from ~ 645-646.5. - From 647.1-649.5 breccia?; non magnetic; composed of angular clasts up to ~ 1/2" diam.; light greenish brown in color for the most part with siliceous calcite? areas; dominant fract 20-30°; Both upper and lower contacts sharp @ 20-30° to core axis - From 649.5-650 pyroxenite	- Weak to mod epidote alt ⁿ - Hematite stain along fract in pyroxenite - Carb fract. fill in both pyroxenite and 'breccia'.	- Trace CP in pyroxenite follow fract. < 0.5% - CP in breccia occurs as blebs and f.g. dissem.; CP in breccia section ~ 1% - Trace Mo in pyroxenite < 0.5% along fract. - Mo in breccia occurs as blebs, f.g. dissem. along fract; Mo ~ 1-2%	50-60 2-3 ft	1-2	9	P
650	660'	9.2	92%	- From 650-660 pyroxenite; slight to mod magnetic; mod grey-green in color. - This section similar to pyroxenite in previous section; no vuggy cavities; appears pitted; - Overburden slumping @ 655.5	- Weak epidote alt ⁿ - Locally strong hematite staining along 50-60° fract - Numerous siliceous? carb. veining	- Trace CP in pyroxenite in pitted areas; CP < 0.5% - Trace Mo along fract. Mo ~ 0.5% - Trace f.g. irreg. dissem PY.	50-60 0-5	2-3	8	P
660	670'	9.8	98%	- From 660-670 pyroxenite; slight to mod magnetic; mod grey-green in color. - Few Qtz-feld veining in this section, trace CP blbs near feld veins; tremolite? fibers concentrated in feldspathic areas.	- Weak epidote alt ⁿ - Weak pervasive carb alt ⁿ - strong along veinlets - Weak hematite stain	- Weak mineralization - Few CP blebs in pitted vugs CP << 0.5% - No visible Mo	50-60 80 0-5	2-3	6	P

14702 with borehole

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DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		SHEETS		
NIK								14 of 17		
DATE STARTED		DATE COMPLETED		SURVEYS			HOLE SIZE	TOTAL DEPTH	HOLE NO.	
Aug 28/78		Sept 13/78					BQ	675'	D.D.H. NDH-78 -16	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	% Rec				F	V/F	F/F	
670	675	5'	100%	-From 670-675' pyroxenite; slightly - mod magnetic; mod grey-green in color; - Few feld-gtz veins along 30-40° fract; tremolite? fibers appear to be conc. near those veins. HOLE TERMINATED @ 675'	Weak epidote alt ⁿ (pervasive) - med to strong along fract. - Weak pervasive carb. alt ⁿ - strong along fract.	- Very little mineralization - Trac << 0.5% mo along fract. - No visible CP or PY.	50-60	1-2	6	P

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DRILL LOG

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK				485.4 N		494.2 E				1 of 10	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H.	
Sept 21/78		Sept 26/78				BQ		491'		NDH-78-18	
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE	
From	To	Length	% Rec							F	V/F
0	37	-	-	<p>OVERBURDEN</p> <ul style="list-style-type: none"> - Abite, Pyroxenite, Hb Diorite and Amphibolite - Fe oxide stain - Rounded - sub rounded core - Very low % Rec. (~15%) 		<ul style="list-style-type: none"> - Fe oxide - Epidote altⁿ - Minor carb altⁿ 		<ul style="list-style-type: none"> - Trace PY as fract fill and f.g. dissem 		-	-
37	50	~72	55%	<ul style="list-style-type: none"> - From 37-50' Amphibolite; non-slightly magnetic; ~15% anhedral-subhedral feld. gns within darker hornblende? matrix; heavily fractured - no evidence of slickensides or 'gouge' areas; few Qtz veinlets; Fe oxide stain on almost all fract. sfs. 		<ul style="list-style-type: none"> - Fe oxide stain on almost all fract sfs. - Strong epidote altⁿ along veinlets. - Very weak pervasive carb. altⁿ. 		<ul style="list-style-type: none"> - Approx 1% PY as f.g. irreg. dissem and fract fill. 		20-30	1-2 >> 10
50	60	55	55%	<ul style="list-style-type: none"> - From 50-60' Amphibolite; non-slightly magnetic; ~15% anhedral-subhedral feld. gns within darker hornblende matrix; heavily fractured - low % Rec; - From ~56-59' core of broken rock (~1/2" - 1" diam) - angular; 		<ul style="list-style-type: none"> - Fe oxide stain along fract. - Mod-strong epidote along veinlets - Weak pervasive carb. altⁿ. 		<ul style="list-style-type: none"> - Approx 1% PY as f.g. irreg. dissem and fract. fill. 		20-30	1-2 >> 10
60	70	71	71%	<ul style="list-style-type: none"> - From 60-70' Amphibolite; non-slightly magnetic; as above; - Core becomes much more 'solid' @ 63' - [Casing down to 66'] 		<ul style="list-style-type: none"> - Fe oxide stain along some fract. - Mod-strong epidote altⁿ along veinlets - Carb fract fill. 		<ul style="list-style-type: none"> - Approx 1-2% PY predom along fract - also occurs as f.g. dissem. 		30-40	1-2 6
70	80	75	75%	<ul style="list-style-type: none"> - From 70-80' Amphibolite; non-slightly magnetic; as previously with diagnostic feld. gns. - From 76-77 small (1/2") vein of Hb. non magnetic. dark black, very f.g.; Contacts indistinct; Subparallel to core axis. 		<ul style="list-style-type: none"> - Fe oxide stain along some fract. - Mod-strong epidote altⁿ along veinlets - Carb fract fill - Few Qtz veinlets. 		<ul style="list-style-type: none"> - Approx 1-2% PY predom along fract. - At 77.5 Qtz veinlet with strong PY and possibly Mo? - Trace CP within Qtz veinlet @ 77.5 		30	1-2 6

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DRILL LOG

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO.			
NIK								2 of 10			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	HOLE NO.			
Sept 21/78		Sept 26/78				3R	491'	D.D.H. NDH-78-18			
DEPTH		CORE		LITHOLOGY		ALTERATION	MINERALIZATION	STRUCTURE		Graph Log	
From	To	Length	%Rsc					F	V/FI	F/FI	
80	90'	94	94%	<ul style="list-style-type: none"> From 80-90' Amphibolite; slightly to mod magnetic; anhedral to subhedral feld. grs. within darker hornblende matrix. At 83 and 84' siliceous carb? veinlets with strong PY mineralization; At 83' Mo near contact with Amphibolite At 84' trace dissem CP along 40° siliceous carb veinlet. 		<ul style="list-style-type: none"> Mod to strong epidote altⁿ along fracts. Weak pervasive carb altⁿ Siliceous carb? fract fill. 	<ul style="list-style-type: none"> Approx 2% PY predom along fracts Trace <0.5% Mo at 83' Trace CP at 84' along siliceous carb veinlet. PY >> CP. 	30-50	1-2	3-4	
90	100'	95	95%	<ul style="list-style-type: none"> From 90-100' Amphibolite; slightly magnetic; appears much more finer grained than previously. At 97' f.g. dissem Mo along carb veinlet with strong PY. At 98' CP stringer along a 20° veinlet. PY abundant as predom fract fill. 		<ul style="list-style-type: none"> Chlorite altⁿ from Hornblende in blebs. Weak pervasive carb altⁿ Carb fract fill. Epidote altⁿ along fracts. 	<ul style="list-style-type: none"> Approx 2% PY predom along fracts. Trace Mo as dissem in carb fract fill Trace CP as stringers with PY along veinlets PY >> CP. 	30-50	1-2	2-3	
100	110'	94	94%	<ul style="list-style-type: none"> From 100-105' Amphibolite; slightly - mod. magnetic; At 102.5 and 103 1/4" wide siliceous carb veinlet with Mo covering ~ 10% of surface. - fract stc @ 40° to core axis From 105-106 hybrid zone of Amphibolite and Hornblende like. upper 'contact' indistinct - lower contact sharp @ ~ 20°. From 106-110 Amphibolite. 		<ul style="list-style-type: none"> Mod - strong epidote altⁿ along fracts Siliceous carb fract fill. Presence of Fe-oxide stain along fracts. 	<ul style="list-style-type: none"> Approx 2% PY predom as fract fill - also occurs as f.g. dissem. Trace Mo along 40° fract. stcs in siliceous carb veinlets. Mo <0.5% Trace CP as dissem within 40° fract stcs in siliceous carb veinlets. 	30-40	1-2	1-2	
110	120'	10	100%	<ul style="list-style-type: none"> From 110-120' Amphibolite; slightly to mod magnetic; Few siliceous carb veinlets with only PY mineralization. Presence of clear mineral filling fracts, #5, does not effervesce in HCL. = ? 		<ul style="list-style-type: none"> Mod - strong epidote altⁿ along fracts Siliceous carb fract fill. Fe oxide stain along fracts. locally, talc altⁿ 	<ul style="list-style-type: none"> Approx 1-2% PY predom as fract fill - also as f.g. dissem. 	30-50	1-2	2	
120	130'	7.8	98%	<ul style="list-style-type: none"> From 120-130' Amphibolite; slightly - mod magnetic; At 125.5 a vuggy, 1/2" wide, siliceous carb veinlet approx 40° to core axis; strong PY trace Mo few CP blebs. - siliceous carb veinlets elsewhere have only PY mineralization. Slickensides @ 126.5 approx 10° from horizontal. 		<ul style="list-style-type: none"> Mod to strong epidote altⁿ along fracts. Siliceous carb fract fill. Fe oxide stain along some fracts. 	<ul style="list-style-type: none"> Approx 1-2% PY, predom as fract fill Trace Mo <0.5% along fract stc @ 125.5 Trace CP blebs @ 125.5 following siliceous carb veinlet CP <0.5% PY >> CP 	40	1-2	2	

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DRILL LOG

SHEET NO. 4 of 10

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO.		
NIK								D.D.H. NOV-78 -18		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	HOLE NO.		
Sept 21/78		Sept 26/78				BQ	491'	D.D.H. NOV-78 -18		
DEPTH		CORE		LITHOLOGY		ALTERATION	MINERALIZATION	STRUCTURE		
From	To	Length	%Rsc					F	V/Ft	
180	190'	10	100%	- From 180-190 Amphibolite; slightly magnetic; dark black with euhedral - subhedral feld. gns. - From 186-187 vuggy area with euhedral clear atals in vugs. Mo occurs as fine stringers and as dissems. Stringers @ ~ 20-30° to core axis. Veinlet of Qtz, calcite, clear mineral. - At 188 siliceous carb veinlet @ 30° to core axis with CP and PY blobs.		- Mod to strong epidote alt ² along fract. - Siliceous; carb fract fill. - light green alt ² blobs near veinlets in Amphibolite. - Alt ² to the near veins?	- Approx 1-2% PY as fract fill and fg. dissems. - Trace Mo following veinlets as stringers and dissems. Mo < 0.5%. - Trace CP in carb veinlets CP < 0.5% PY >> CP.	40-70	2-3	2
190	200'	98	98%	- From 190-200 Amphibolite; slightly magnetic. - Numerous (siliceous) calcite veinlets with strong Mo. From 192-199 calcite with Mo predom along calcite. Amphibolite contact. Trace CP blobs within calcite vein. Slickensides @ 194 ~ 10° from horizontal. - At 196 Mo stringers within calcite vein @ 50° to core axis. - From 197.5-198.2 very strong Mo following carb veinlets and as dissems.		- Mod to strong epidote alt ² along fract. - Numerous (siliceous) carb veins. - Some light green alt ² patches in Amphibolite.	- Approx 2-3% PY as fract fill and fg. dissems. - Very strong Mo near and within carb veinlets. Mo ~ 1% (to 1.5%). - Trace CP as blobs within carb veins CP < 0.5% PY >> CP.	40	2-3	2-3
200	210'	10	100%	- From 200-210 Amphibolite; slightly magnetic. - From 200.5 - 202' prominent ~ 1/4 - 1/2" carb veinlets. Strong Mo, appears to be conc. near calcite - Amphibolite contact zones. - occurs predom as dissems. Mo also as stringers or slickensided (at 200.5 forms horizontal). Trace CP blobs. - From 202-210 trace Mo along some fract. trace CP as blobs. At 209 very strong epidote alt ² along veins.		- Mod - strong epidote alt ² along fract. - Carb fract fill. - light green chloritized? alt ² patches in Amphibolite.	- Approx 1-2% PY as fract fill and fg. dissems. - Strong Mo locally - over 10' section 0.5%? - Trace CP, predom as blobs following carb veinlets PY >> CP.	20-30	2-3	3-4
210	220'	10	100%	- From 210-220 Amphibolite; slightly magnetic; dark black in color with euhedral - subhedral feld gns. - At 218' ~ 1/2" wide carb vein subparallel to core axis, very strong PY mineralization, Fe oxide stain, Mo stringers and dissems, and trace CP blobs.		- mod - strong epidote along fract. - Carb fract fill. - Fe oxide stain @ 218' - light green alt ² patches in Amphibolite.	- Approx 1-2% PY as fract fill and fg. dissems. - Strong Mo within carb veins @ 218'. Mo < 0.5%. - Trace CP blobs in Carb veinlet < 0.5% PY >> CP.	40-50	2-3	2-3
220	230'	99	99%	- From 220-227.5' Amphibolite; slightly magnetic. - Numerous small (~ 1/6 - 1/8") carb veinlets with Mo in veinlets and trace CP blobs. - From 227.5 - 230' Amphibolite and Hb dike; Hb dike slightly magnetic; upper contact irreg. sharp; Hb dike subparallel to core axis.		- Mod - strong epidote alt ² along fract. - Carb fract fill. - light green alt ² patches in Amphibolite.	- Approx 1-2% PY as fract. fill and fg. dissems. - Mo within carb veinlets < 0.5%. - Trace CP blobs in carb veinlet CP < 0.5% PY >> CP.	40	2-3	1-2

Hb horngfels with subhedral calcite

7451

DRILL LOG

SHEET NO. 5 of 10

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO.		
NIK								D.D.H. NDH-7E-18		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	HOLE NO.		
Sept 21/78		Sept 26/78				3Q	491	D.D.H. NDH-7E-18		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE		Graph Log	
From	To	Length	% Rec				F	V/F		F/F
230	240'	10	100%	<ul style="list-style-type: none"> - From 230-233' Amphibolite and Hb. dike. Contacts sharp. lower contact irreg. sharp. - From 233-240' Amphibolite; slightly magnetic. Some carb veins but with only PY mineralization. No visible Mo or CP. 	<ul style="list-style-type: none"> - Mod-strong epidote altⁿ along fract - Carb fract fill. - light green altⁿ patches in Amphibolite 	<ul style="list-style-type: none"> - Approx 1% PY as fract fill and f.g. dissem. - Trace CP along fract stes. - Trace Mo along fract stes @ 240' - CP << 0.5% 	40-60	2-3	1-2	
240	250'	9.3	93%	<ul style="list-style-type: none"> - From 240-250' Amphibolite; slightly magnetic; - Few siliceous carb veinlets with only PY mineralization. - light green altⁿ patches (chloritized?) in Amphibolite 	<ul style="list-style-type: none"> - Mod to strong epidote altⁿ along fract. - (Siliceous) carb fract fill - light green altⁿ patches 	<ul style="list-style-type: none"> - Approx 1-2% PY as fract fill and f.g. dissem. - Trace CP bbls along fract stes. - CP < 0.5% 	30-50	1-2	2-3	
250	260'	10	100%	<ul style="list-style-type: none"> - From 250-252 Amphibolite; non-slightly magnetic; presence of few Qtz-carb veinlets with PY stringers. - From 252-254 Amphibolite and Hb. Dike. Upper contact irreg. sharp; Hb. Dike subparallel to core axis; Near upper contact, slickensides (~30° from horizontal) along 20° fract stes. with Mo smears; At 254' hybrid contact with Amphibolite, Hb. Dike and Qtz-carb, clear mineral veinlet. Strong Mo as dissem and fract fill. Contact zone ~ 8". - From 254-260 Amphibolite 	<ul style="list-style-type: none"> - Mod to strong epidote altⁿ along fract - Prominent veinlet @ 254' of siliceous carb and clear cubic mineral. - light green altⁿ patches - Chlorite altⁿ at 254' 	<ul style="list-style-type: none"> - Approx 1-2% PY as fract fill and f.g. dissem. - Mo as smears and dissem from 252-254 - Mo ~ 0.2%? - Trace CP as bbls within veins 	10-30	2-3	2	
260	270'	10	100%	<ul style="list-style-type: none"> - From 260-270' Amphibolite; slightly magnetic; numerous anhedral-subhedral feld. gns. within dark black hornblende and mass. - At 259 Qtz? veinlets - angular clasts of Amphibolite within veinlets. 	<ul style="list-style-type: none"> - Mod epidote altⁿ along fract - Weak carb altⁿ - light green altⁿ patches. 	<ul style="list-style-type: none"> - Approx 1% PY predom as fract fill. - No visible Mo or CP. 	30-50	1-2	2-3	
270	280	9.1	91%	<ul style="list-style-type: none"> - From 270-280 Amphibolite; slightly magnetic; as above. - At 279' along 5° fract stes. strong PY and trace CP. - strong carb altⁿ. 	<ul style="list-style-type: none"> - Mod-strong epidote altⁿ along fract - Carb fract. fill - weak pervasive carb altⁿ - light green altⁿ patches 	<ul style="list-style-type: none"> - Approx 1-2% PY predom as fract fill. - Trace CP along fract. stes @ 279' CP < 0.5% - No visible Mo 	30-60	2-3	2-3	

7451

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.		
NIK										NDH-76 D.D.H. -18		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.		
Sept 21/78		Sept 26/78				BQ		491'		NDH-76 D.D.H. -18		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log		
From	To	Length	%Rec				F	V/Fi	F/Fi		Log	
280	290'	8.3	83%	- From 280-286' Amphibolite; slightly magnetic - From 286-286.5' Pyroxenite dike?; slightly magnetic Both upper and lower contacts sharp @ ~30° to core axis Approx 5-7% f.g. dissem PY in Pyroxenite. - From 286.5-290' Amphibolite; slightly magnetic.	- Mod to strong epidote alt ² along fract. - Carb fract fill - Weak alt ² in Pyroxenite.	- Approx 1-2% PY as predom fract fill. - Trace Mo along fract spc @ 281' Mo covering ~40% of spc as thin film.	30	60	1-2	2-3		
290	300'	10	100%	- From 290-300' Amphibolite; slightly magnetic; numerous anhedral-subhedral feld. gns. within dark black hornblende gndmass. - Few siliceous carb veinlets with only PY mineralization.	- Mod to strong epidote alt ² along fract. - Weak alt ² of Amphibolite.	- Approx 1-2% PY as fract fill. - No visible CP or Mo.	30	60	1-2	1-2		
300	310'	8.6	86%	- From 300-302 Amphibolite; slightly to mod magnetic - From 302-304 hybrid zone of Amphibolite and Pyroxenite? slightly magnetic; few feld. gns. visible - From 304-310 Amphibolite; slightly magnetic; diagnostic anhedral-subhedral feld. gns.	- Mod to strong epidote alt ² along fract. - Mod to strong pervasive epidote alt ² locally - Weak pervasive carb. alt ² .	- Approx 1-2% PY in Amphibolite as predom fract. fill. - No visible CP or Mo. - Trace CP dissem @ 304.5 in Amphibolite - mod to strong Propylitic alt ² 5-10%.	30	50	1-2	1-2		???? ???
310	320'	10	100%	- From 310-315.5 Amphibolite; slightly to mod. magnetic; dark greenish black with anhedral to subhedral feld gns. - From 315.5 - ~317 Amphibolite and Pyroxenite?; upper contact sharp @ ~10°; Amphibolite with visible feld gns is dark black in color; Pyroxenite mod grey green, very little felsics. Lower contact ~317 grad over ~6". - From 317-320 Amphibolite;	- Weak to mod epidote alt ² along fract. - Weak pervasive carb alt ² in Pyroxenite and Amphibolite - Light green alt ² patches in both.	- Approx 2-3% PY as fract fill and f.g. dissem. - No visible CP or Mo.	30-50		1-2	2		????
320	330'	10	100%	- From 320-330 predom Amphibolite; slightly to mod. magnetic; From 321-~321.5 and From 327-327.4 Pyroxenite; mid-grey green in color.; very few - no felsics. "contacts" = hybrid. - From 325-326.5 a 1/4 - 1/2" siliceous carb veinlet @ ~10° to core axis; Very strong PY mineralization throughout; Trace CP. predom as blabs within vein; Mod Mo occurs as dissem - majority appears to be conc. near Amphibolite-vein contact.	- Weak to mod epidote alt ² along fract. - Siliceous carb fract fill - Light green (chloritic) alt ² esp. near vein @ 325-326.5.	- Approx 2-3% PY as fract fill and f.g. dissem - Mo within carb vein from 325-326.5 as dissem Mo ~0.2%? - Trace CP as blabs within veinlet	0-10	30	2-3	2		

Amphibolite (Greenish Black)

7451

DRILL LOG

SHEET NO. 7 of 10

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK											7 of 10
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H. NO. - 78 - 18	
Sept 21/78		Sept 26/78				3Q		490'			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE	
From	To	Length	% Rec							F	V/F
330	340'	9.5	95%	- From 330 - 334.5 Amphibolite; slightly magnetic; dark greenish black with anhedral - subhedral feld' gms. - From 334.5 - 335 Pyroxenite; non magnetic; light grey-green in color; strong chlorite alt ⁿ ; upper contact sharp 270°; lower-indistinct Pyroxenite - From 335 - 339 Amphibolite - From 339 - 340 hybrid zone with Amphibolite, Pyroxenite and Hb. dike		- Mod to strong epidote alt ⁿ along fract's - Chlorite alt ⁿ in Pyroxenite - Weak pervasive carb alt ⁿ		- Approx 1-2% PY as fract. fill and f.g. dissem.		30	1-2
340	350'	9.2	92%	- From 340 - 343.6 Amphibolite; non - slightly magnetic; dark greenish black with anhedral - subhedral feld. gms. - From 343.6 - 344 prominent siliceous carb veinlet with CP blobs and Mo smears. Strong PY throughout - From 344 - 348 altered Diorite; non magnetic; ~ 10-15% mafics = hb?; light green in color; fault zone - core very broken, slickensides ~ 10° from horizontal. Approx 1% PY as f.g. dissem. - From 348 - 350' Amphibolite.		- Mod to strong epidote alt ⁿ along fract's - light green alt ⁿ patches in Amphibolite - Chlorite alt ⁿ in Diorite - Diorite - bleached.		- Approx 1-2% PY as fract fill and f.g. dissem in Amphibolite - Mo smears near vein Amphibolite contact < 0.5% - CP blob in siliceous carb vein CP < 0.5% PY 77CP		0-5 30	1-2
350	360'	9.1	91%	- From 350 - 360 Amphibolite; non - slightly magnetic; dark black with anhedral - subhedral feld. gms. At 354' a 6" Hb dike; non magnetic; upper contact sharp @ 50° to core axis; lower contact grad. with Amphibolite ~ 6". Strong epidote alt ⁿ within lower contact.		- Mod to strong epidote alt ⁿ esp near Hb Dike - Amphibolite grad contact - Weak pervasive carb alt ⁿ .		- Approx 1-2% PY as f.g. dissem and fract fill. - No visible CP or Mo.		50-60 30	1-2
360	370'	9.4	94%	- From 360 - 370 Amphibolite; non - slightly magnetic; At 362, 369 and 370' small (1/8" - 1/4") siliceous carb veinlets with CP and Mo dissem. CP and Mo occur only in veinlets; Strong PY as dissem and stringers within veinlet.		- Mod to strong epidote alt ⁿ along fract's. - Siliceous carb fract fill.		- Approx 1-2% PY as f.g. dissem and fract. fill. - Trace Mo as dissem only in veinlets < 0.5% - Trace CP as dissem - blebs in veinlets < 0.5%		50-60 30	1-2
370	380'	8.9	89%	- From 370 - 374' Amphibolite; non - slightly magnetic, From 370 - 372 sheared; - From 374 - 379 Hb Dike; non magnetic; light greenish black; few siliceous carb. veins with only PY mineralization. Upper and lower hybrid contacts with ~ 6". - From 379 - 380 Amphibolite.		- Mod epidote alt ⁿ along fract's - Siliceous carb fract fill - Weak pervasive carb alt ⁿ .		- Approx 1-2% PY as f.g. dissem and fract. fill.		50-60 30	1-2

From the after 10:00 AM for stain

7451

DRILL LOG

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										D.D.H. NDH -78 -18	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Sept 21/78		Sept 26/78				BQ		491		D.D.H. NDH -78 -18	
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE	
From	To	Length	% Rec							F	V/F1
380	390'	10	100%	- From 380 - ~389 appears to be a hybrid zone between Hb. Dike and Amphibolite; non-slightly magnetic; dark greenish black; Feld. gns very few or absent in this section. - From 389 - 390 Amphibolite; non-slightly magnetic; numerous euhedral - subhedral feld. gns within darker hornblende matrix.		- Weak - mod epidote alt ^h along fract - Siliceous veinlets - light green alt ^h patches.		- Approx 1-2% PY as f.g. dissem and as fract fill. - Trace CP dissem within siliceous veinlet @ .385' CP << 0.5% - No visible Mo.		50-60	2-3
390	400'	9.6	96%	- From 390 - 400 predom. Amphibolite; non-slightly magnetic; numerous euhedral - subhedral feld. gns within darker hornblende matrix; light green alt ^h patches - At 395 a 6" zone of Pyroxenite; non magnetic; mod grey green; numerous stockwork veinlets. Both upper and lower contacts sharp @ ~ 60-70°.		- Weak to mod epidote alt ^h along fract - Carb fract fill - light green alt ^h patches - weak pervasive carb alt ^h - Blueish tinged mineral along fract.		- Approx 1-2% PY as f.g. dissem and fract. fill. - No visible Mo or CP.		50-60	2-3
400	410'	10	100%	- From 400 - 410 Amphibolite; non magnetic; as above - At 402.5 a 1/4" carb veinlet @ ~ 20° from core axis. CP occurs as irreg dissem, Mo also as dissem. PY as stringers and dissem.		- Weak to mod epidote alt ^h along fract. - light green alt ^h envelope (chloritized?), numerous light green alt ^h patches. - Carb fract fill.		- Approx 1-2% PY as f.g. dissem and fract fill. - Mo as dissem in carb veinlet < 0.5% - CP as dissem in carb veinlet < 0.5% PY > CP		50-60	2-3
410	420'	9.7	97%	- From 410 - 420 Amphibolite; non-slightly magnetic; light green alt ^h patches appear to be more continuous. - From 411 - ~411.6 carb veinlet with CP blebs - dissem. No visible Mo; PY occurs predom as f.g. dissem. No sharp contacts - carb veinlet assimilated into Amphibolite.		- Weak to mod epidote alt ^h along fract. - Numerous light green (chloritized) areas. - Carb fract fill - Weak pervasive carb alt ^h .		- Approx 1-2% PY as f.g. dissem and fract. fill. - CP as dissem within carb veinlet CP < 0.5%. - No visible Mo.		50-60	2-3
420	430'	9.8	98%	- From 420 - 430 Amphibolite; non-slightly magnetic; light green alt ^h patches. - From ~ 426 - 430 mod pervasive epidote alt ^h .		- Mod to strong epidote alt ^h along fract - mod pervasive epidote alt ^h from 426 - 430. - light green (chloritized) patches - Carb fract fill.		- Approx 1-2% PY as f.g. dissem and fract fill. - Trace CP as f.g. dissem within carb veinlets CP < 0.5%.		50-60	1-2

7451

DRILL LOG

SHEET NO. 9 of 10

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										D.D.H. NOH-78-18	
DATE STARTED		DATE COMPLETED		SURVEYS		MOLE SIZE		TOTAL DEPTH		HOLE NO.	
Sept 21/78		Sept 26/78				30		491		D.D.H. NOH-78-18	
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE	
From	To	Length	%Rec							F	V/FI
430	440'	9.8	98%	- From 430-437 Amphibolite; non magnetic; mod - strong pervasive epidote alt ^a . - From 437 - ~438 Hb Dike; non magnetic; mod grey-green in color; Upper contact grad. within ~ 3", lower contact sharp @ 60". At lower contact a 1" siliceous carb vein with f.g. dissem Mo; No visible CP - From 438-440 Amphibolite		- Mod to strong epidote alt ^a along fract ^s - mod pervasive epidote alt ^a . - Siliceous carb. fract fill - light green alt ^a patches		- Approx 1-2% PY as f.g. dissem and as fract fill. - Trace dissem Mo in siliceous carb veins @ 438'. Mo << 0.5%		50-60	1-2
440	450'	10	100%	- From 440-441 Amphibolite; non-slightly magnetic; mod epidote alt ^a along fract ^s . - From 441-450 Pyroxenite; mod - strongly magnetic; mod grey green in color; Upper contact hybrid with Amphibolite. Strong epidote alt ^a along fract ^s with CP blebs. CP appears to be conc. predom. in vuggy carb veinlets.		- Mod to strong epidote alt ^a along fract ^s . - Carb fract fill - light green alt ^a patches.		- Approx 1-2% PY as fract fill and f.g. dissem - Approx 1% CP as dissem. within vuggy cavities and following fract ^s . PY >> CP.		50-60	1-2
450	460'	10	100%	- From 450-460 Amphibolite Pyroxenite; mod - strongly magnetic; mod grey green in color. - From 452-454 numerous (siliceous) carb veinlets; CP occurs predom as dissem. within veinlet. Trace Mo as f.g. dissem; Ubiquitous PY. - Less alt ^a from ~ 457-460		- Mod to strong epidote alt ^a along fract ^s - (Siliceous) carb fract fill. - light green alt ^a patches.		- Approx 1-2% PY as fract fill and f.g. dissem. - Approx 0.5-1% CP as dissem within veinlets PY >> CP. - Trace Mo in carb veinlets as dissem Mo < 0.5%		50-60	2-3
460	470'	9.7	97%	- From 460-470 Pyroxenite; mod - strongly magnetic; lt. grey green in color; less alt ^a than in previous section up to ~ 457. - From 467 - ~ 468.5 Hb Dike within Pyroxenite; Both upper and lower contacts sharp @ 20° to core axis.		- Weak to mod epidote alt ^a along fract ^s . - Carb fract. fill - light green alt ^a patches.		Approx 1% PY as fract fill and f.g. dissem. - Trace CP as blebs within carb veinlets CP << 0.5%.		50-60	1-2
470	480'	9.8	98%	- From 470-480 predom Pyroxenite; mod - strongly magnetic; lt - mod grey green in color; - At 471 and 474 vuggy carb veinlets with trace CP and Mo dissem. Mineralization appears to be conc. only within veins. - From 478.5-479.5 Pyroxenite and Hb Dike; Upper and lower contacts sharp @ 20° to core axis.		- Weak to mod epidote alt ^a along fract ^s . - Carb fract fill. - light green alt ^a patches.		Approx 1% PY predom as fract fill. - Trace CP as dissem in carb veinlets CP < 0.5% - Trace Mo near or within carb veins << 0.5%.		30	1-2

Pyroxenite (local)
 1. plagioclase + Hb + amphibolite

7451

INVOICE

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<i>6/SEPT</i>			<i>15 DAYS</i>			
QUANTITY	DESCRIPTION				TAXES	AMOUNT
	<i>DIAMOND DRILLING AUG 16-31</i>					<i>\$ 17,742.88</i>
APPROVED FOR PAYMENT CHARGE <i>80035</i> DATE <i>11 OCT 78</i> INTLS. <i>10/15/78</i>						
<i>448 - \$ 17,742.88</i>						
<i>TOTAL</i>						<i>\$ 17,742.88</i>

7451

BREAKDOWN INU # 218

SEPT 1-28

PULLING RODS WITH TRACTOR			
12 MAN HRS @ \$17.00			\$204.00 ✓
STANDBY CREW COST FOR TRAVELING			
158 MAN HRS @ \$17.00	163	-	\$2686.00 ✓
REASSEMBLING DRILL & LOWERING RODS TO BOTTOM			
41 MAN HRS @ \$17.00		-	\$697.00 ✓
DRILLING HOLE NDH #16			
CORING 485' - 500' - 15' @ 14.20		\$213.00 ✓	
500 - 675 - 175' @ 14.70		\$2572.50 ✓	\$2785.50
HOLE STABILIZATION NDH #16			
1 MACH HR @ \$37.00			\$37.00 ✓
MOVING TO HOLE NDH #17			
10 MACH. HRS @ \$37.00		\$370.00 ✓	
26 MAN HRS @ 17.00		442.00 ✓	\$812.00 ✓
MOVING NET LOAD OF EQUIPMENT (NORTH SIDE)			
1 MAN HR @ \$17.00			\$17.00 ✓
DRILLING HOLE NDH #17			
CASING 0 - 9' - 9' @ 14.20		\$127.80 ✓	
CORING 9 - 500 - 491' @ 14.20		6972.20 ✓	
500 - 677 - 177' @ 14.70		2601.90 ✓	\$9701.90 ✓
THAWING WATER LINES			
2.5 MACH. HRS @ \$37.00			\$92.50 ✓
REAMING COST 1 MACH. HR @ \$37.00			\$37.00 ✓
DIAMOND COST (DRILLING BROKEN GROUND)			
30% OF \$458.59		\$137.58 ✓	
60% OF 458.59		275.15 ✓	
100% OF 458.59		458.59 ✓	\$871.32 ✓
ACID TEST 1 MACH HR. @ \$37.00			\$37.00 ✓
MOVING TO HOLE NDH #18			
12 MACH. HRS @ 37.00		\$444.00 ✓	
12 MAN HRS @ 17.00		204.00 ✓	648.00 ✓
DRILLING HOLE NDH #18			
CASING 0 - 12 - 12' @ \$14.20		\$170.40 ✓	
CORING 12 - 491' - 479' @ 14.00		\$6801.80 ✓	\$6972.20 ✓

BRANCH
 7451

REAMING CASING & RODS

28.5 MACH. HRS @ \$37.00

\$ 1054.50

\$ 1054.50 ✓

SUPPLIES USED & CONSUMED

2 B.W. CASING SHOES @ \$182.96

\$ 365.92 ✓

1 2' B.W. CASING @ \$21.53

21.53 ✓

1 5' B.W. CASING @ 37.80

37.80 ✓

1 B.G. DIAMOND CORING BIT

458.59

1 B.G. REAMING SHELL

244.13

1127.97 ✓

PLUS 15% OF 1127.97

169.20

\$ 1299.17 ✓

THAWING WATER LINES

9.5 MACH. HRS @ \$37.00

351.50 ✓

CASING LOST IN HOLE NDH #14 (MISSED ON INV.)

1 B.W. CASING SHOE - \$182.96

6 5' B.W. CASING @ \$37.80 226.80

409.76 ✓

SUPPLIES USED

- 5 GALLONS HYDRAULIC OIL @ 2.78

13.90 ✓

- 2 FUEL FILTERS @ 14.00

28.00 ✓

1 WATER TANK

65.00

106.90 ✓

B.C. S.S. TAX @ 5%

5.35 ✓

112.25

PLUS 15%

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81 MAN HRS @ \$17.00

\$ 1377.00 ✓

~~\$ 31,522.99~~

\$ 31,601.08

7451

BP Minerals Limited

RECEIVED

OCT 5 1976

Vancouver, B.C.

BREAKDOWN INU 217

AUG 16-31

CEMENTING COST HOLE NDH #14

56.5 MACH. HRS. @ \$37.00		\$2,053.50
DIAMOND COST 242' @ \$1.25'		302.50

DRILLING HOLE NDH #14

CORING 362 - 500 - 138' @ \$14.20	- \$1959.60	
500 - 592' - 92' @ 14.70	- 1352.40	\$3312.00

REAMING RODS HOLE # NDH 14

2 MACH HRS @ \$37.00	- \$74.00	
DIAMOND COST 100' @ \$1.25'	125.00	\$199.00

MOVING TO HOLE # NDH 15

14 MACH HRS @ \$37.00	518.00	
13.5 MAN HRS @ 17	229.50	\$747.50

DRILLING HOLE # NDH 15

CASING 0 - 21 - 21' @ 14.20	298.20	
21 - 55 - 34' @ 14.20	482.80	

FIELD COST (ABNORMAL DRILLING)

18 MACH. HRS @ 37.00	666.00	
75% OF 2 B.B. DIAMOND BITS		
1064.50 X 75%	798.38	\$2,245.38

REAMING NDH #15

5 MACH HRS @ \$37.00		\$185.00
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MOVING DRILL & CAMP TO NDH 16

25.5 MACH. HRS @ \$37.00	\$943.50	
37 MAN HRS @ 17.00	629.00	\$1572.50

DRILLING HOLE # NDH 16

CASING 0 - 21 - 21' @ \$14.20	298.20	
CORING 21 - 485 - 464' @ 14.20	\$6588.80	\$6887.00

REAMING & STABILIZING HOLE # NDH 16

5.5 MACH. HRS @ \$37.00	203.50	
DIAMOND COST		
28' @ \$1.75'	35.00	

7451
238.50
\$17,742.88

DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO.		
NIK								108-14		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	HOLE NO.		
Sept 15/78		Sept 20/78				BQ	677	D.D.H. NOH-78 -17		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	%Rec				F	V/FI	F/FI	
0	9'	-	-	OVERBURDEN -Hb Diorite and Amphibolite.	-Fe oxide stain	Trace f.g. 10-15% disseminated PY in Amphibolite <1%.				
9	20'	6	55%	-From 9-20' Amphibolite; non magnetic; numerous feldspar gns. within darker hornblende matrix - % feld ~ 10-15% (varies) -Qtz, feld veinlets show offset.	-Weak pervasive epidote along Weak to mod epidote along fract.	Trace f.g. 10-15% disseminated PY. -Few visible blobs of CP along fract @ 16 ft. CP < 1%.	50-60	1-2	6	
20	30'	8.6	86%	-From 20-30' Amphibolite; non magnetic; ~ 10% feldspar gns within darker hornblende matrix. -Feld veinlets appear to be predom @ ~ 20° to core axis; At 24' wuggy feld veinlet has CP blobs; At 29.5' CP blobs and malachite stain following 20° feld veinlet. -From ~27-30' PY appears to get stronger - following 20-30° fract.	-Weak to mod epidote along fract. -Presence of some hematite staining.	PY conc. mainly along 20-30° fract PY < 1% CP blobs following feld veins CP < 1% PY > CP.	50-60 20	1-2	6	
30	40'	7.9	77%	-From 30-40' Amphibolite; non to slightly magnetic; ~ 10-15% anhedral feldspar gns. with darker hornblende matrix. -Feld (Qtz?) veinlets predom @ 30-40° to core axis. CP mineralization concentrated predom along these veinlets as stringers + loc blobs. -PY mineralization occurs predom. as very f.g. disseminated and along fract.	-Weak to mod. epidote along fract. -Presence of hematite staining along fract.	PY as f.g. disseminated and along fract < 1% CP along 30-40° veinlets as blobs via stringers << 1% PY > CP. No visible Mo.	50-60 10-20	1-2	7	
40	50'	7.3	73%	-From 40-50' Amphibolite; non magnetic; as above but no visible CP. -PY occurs as f.g. disseminated as well as fract. fill.	-Weak to mod. epidote along fract. -Hematite staining along fract.	PY as f.g. disseminated and along fract. PY < 1%. No visible CP or Mo.	50-60 30	2-3	7	

Retegraded? Hb hercynite

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DRILL LOG

SHEET NO. 28

LOCATION		CO-ORDINATES		NORTH	EAST	ELEVATION		HOLE NO.		
NIK								D.D.H. V04-78 -17		
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE	TOTAL DEPTH	HOLE NO.		
Sept 15/78		Sept 20/78				BQ	677	D.D.H. V04-78 -17		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	%Rec				F	V/Ft	F/Ft	
50	60'	8.0	80%	- From 50-60' Amphibolite; slight to mod magnetic; as previously with diagnostic feld. gns. - PY occurs as dissem and fract fill	- Weak epidote αH° along fracts. - Carb fract. fill. - Hematite staining along fracts.	- PY occurs as fg. dissem. as well as fract. fill. PY ~ 1% - No visible CP or Mo.	50-60	1-2	5	
60	70'	7.3	73%	- From 60-61' Amphibolite; slight to mod. magnetic. - From 61-70' Pyroxenite; mod to strongly magnetic; distinct color change from mod grey-green in Amphibolite to light black in Pyroxenite. No visible feld. gns. as in Amphibolite. Upper contact with Amphibolite indistinct (sharp?); Numerous slickensided surfaces along 0-5° fracts with hematite staining. Slickensides have angle of 50-60° from horizontal along fracts.	- Strong hematite as dissem and along fracts. - Carb. fract. fill. [Hematite staining much more abundant in Pyroxenite]	PY predom along fracts - also fg. irreg. dissem. in Pyroxenite: PY < 1% - No visible CP or Mo	70-60	1-2	9	??-??
70	80'	5.7	57%	- From 70-80' Pyroxenite; mod to strongly magnetic; light black. - From 70-75' abundant hematite along 50-60 and 0-10° fract. surfaces; slickensides @ 74.5' have ~50° angle from horizontal (along subparallel fract). - surface also has streaky PY and hematite stain.	- Strong hematite predom. along 50-60° fract. sfs. - Carb fract. fill.	- PY predom along fract, also as fg. irreg. dissem. PY ~ 1-2% - No visible CP or Mo	50-60	1-2	10	P
80	90'	7.4	74%	- From 80-89' Pyroxenite; mod to strongly magnetic; light black; less hematite staining than in previous 10' section. - From 89-90' Hb. Diorite; non magnetic; ~15-20% mafics? Contact with Pyroxenite appears to be irreg. sharp. Abundant PY predom. along fracts - also occurs as irreg. dissem.	- Hematite staining in Pyroxenite. - Carb. fract. fill in Prite - Weak to mod pervasive epidote αH° in Hb Diorite. - Mod epidote αH° along fracts	PY in Pyroxenite predom. along fracts PY < 1% - PY in Hb. Diorite occurs along fracts and irreg. dissem. PY ~ 1-2%	50-60	1-2	10	P
90	100'	6.5	65%	- From 90-96' Hb. Diorite; non magnetic; light black ~15-20% mafics? Core very broken up over this section [accounts for the low % Rec] - From 96-100' Amphibolite; non magnetic; approx 5-10% feld. gns. within darker hornblende matrix; Contact with Hb. Diorite sheared.	- Weak to mod pervasive epidote αH° in Hb. Diorite. - Mod pervasive carb αH° in Hb Diorite. - Strong pervasive epidote αH° in Amphibolite near contact - weak elsewhere. - Numerous carb. fract. fill in Amphibolite	- Approx 1-2% PY in Hb Diorite - occurs along fract and irreg dissem. - PY in Amphibolite ~ 1% occurs predom as dissem	50-60	1-2	10	

Pyroxenite = Hb, mag

7451

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
NIK										3 of 7 C. J. Latz			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H.			
Sept 15/78		Sept 20/78				3Q		677		NDH-78 -17			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/F ₁		
100	110'	8.5	85%	- From 100-110' Amphibolite; non magnetic near 100' becoming slightly to mod. magnetic near 110'; diagnostic euhedral fld. gns. within darker hornblende matrix.		- Weak to mod pervasive epidote alt ² . - Numerous siliceous carb. veins. - Presence of some hematite staining along fracts.		- Approx 1% PY in Amphibolite occurs as f.g. dissem as well as fract fill		50-60	1-2	9	
110	120'	9.0	90%	- From 110-114 Amphibolite; slight to mod magnetic - From 111 to 112 ruggy cavities along 30° fract, with dissem PY surrounded by strong epidote alt ² . - From 114-120' Pyroxenite; mod-strongly magnetic; distinct color change from mod grey green Amphibolite to light black color in Pyroxenite; No fld gns as seen earlier in Amphibolite. Contact with Amphibolite indistinct = (sharp??).		- Weak to mod. pervasive epidote alt ² in Amphibolite - strong along fracts. - Numerous carb fract fill in Amphibolite - weak carb alt ² in Pyroxenite - Hematite blebs and stain in Pyroxenite		- Approx 1% PY in Amphibolite - occurs as f.g. dissem as well as fract. fill. - Strong PY along some fracts in Pyroxenite elsewhere as f.g. dissem. PY ~ 1-2%		50-60	1-2	8	2-2-2
120	130'	8.6	86%	- From 120-130' Pyroxenite; strongly magnetic; distinct hematite blebs over most of 10 ft. section. - At 129' feldspathic area within Pyroxenite, slickensides @ ~20° to 30° from horizontal has thin film of Mo.		- Carb. fract fill in Pyroxenite - Distinct hematite blebs		- Approx 1% PY in Pyroxenite predom along fracts. - Trace Mo along 50° fract @ 129' Mo < 0.5%		50-60	1-2	8	P
130	140'	8.8	88%	- From 130-131 Pyroxenite; strongly magnetic; distinct hematite blebs; light black; relatively unaltered. - From 131-132.5 a more altered Pyroxenite compared to 130-131; slightly magnetic (distinct euhedral augite xls visible with 90° cleavage); Trace Mo smears along fracts.; epidote + chlorite alt ² . - From 132.5-140 'unaltered' Pyroxenite; strongly magnetic; light black in color in contrast to mod grey-green in altered version.		- Carb fract fill in Pyroxenite. - Hematite blebs in pyroxenite. - weak pervasive carb alt ² in altered pxite.		≤ 1% PY in Pyroxenite predom as irreg. dissem. - Trace (<0.5%) CP in Pyroxenite as f.g. dissem. PY >> CP. - Trace Mo smears along fracts in altered Pyroxenite @ 132'.		50-60	1-2	6	P
140	150'	8.1	81%	- From 140-144.5 Pyroxenite; mod-strong magnetic; distinct hematite blebs; light black; - From 144.5-145.5 'altered' Pyroxenite; slightly magnetic; mod grey green in color in contrast to light black in 'unaltered' Pyroxenite. Contacts are definable and appear sharp @ ~50° to core axis between the 'altered' and 'unaltered' version. Trace Mo as smears along slickensided sfc. with hematite. - From 145.5-150 Pyroxenite; strongly magnetic; hematite blebs.		- Abundant carb fract fill in both 'unaltered' and altered Pyroxenite. - Hematite blebs in 'unaltered' Pyroxenite. - Pervasive epidote alt ² from 144.5 - 145.5.		< 1% PY in Pyroxenite - occurs as f.g. dissem and fract. fill - Mo streaks along slickenside sfc from 144.5 - 145.5 with hematite and carb. Mo < 0.5%		50-60	1-2	6	P

HB
Hornblende

7451



DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO. D.D.H. ^{9/21/78} NOX-78 -17				
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO. D.D.H. ^{9/21/78} NOX-78 -17				
Sept 15/78		Sept 20/78										BQ		677
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE		Graph Log		
From	To	Length	% Rec							F	V/Ft		F/Ft	Log
150	160'	9.0	90%	- From 150-160 Pyroxenite - From 150-152.5 and from 153.5 Pyroxenite; mod to strongly magnetic; light black (grey) in color; hematite blebs; Trace Mo along 50° fract sfc. as thin smears. - From 152.5-153.5 Pyroxenite; slightly to mod. magnetic; mod grey green in color; greater alt than remaining section of epidote, chlorite; slickensides @ 50° to horizontal. Trace Mo along slickensided sfc.		- Hematite blebs in the less altered Pyroxenite - Carb fract fill in both Pyroxenite - Pervasive epidote alt (weak-mod) in Pyroxenite		< 1% PY in Pyroxenite - conc. mainly along fracts. - Trace Mo in Pyroxenite as thin smears along 50° fract sfc. Mo < 0.5% - Trace CP < 0.5% as dissem		50-52	1-2	6	P	
160	170'	9.2	92%	- From 160-170' Pyroxenite; strongly magnetic; hematite blebs approx 5-10% (varies); light black in color.		- Presence of hematite blebs in Pyroxenite - Carb fract. fill in Pyroxenite - Weak pervasive epidote alt		< 1% PY in Pyroxenite - conc. predom along fracts. - Trace Mo smear along one 50° fract. Mo < 0.5%		50	1-2	6	P	
170	180'	8.3	83%	- From 170-180 Pyroxenite - From 170-171 and from 174-180 Pyroxenite; mod to strongly magnetic; hematite blebs; light black in color - From 171-174 Pyroxenite; non to slightly magnetic; mod grey green in color; presence of tremolite? fibers; epidote and chlorite alt; some dissem Mo in pyroxenite		- Presence of hematite blebs in the less altered Pyroxenite. - Weak pervasive carb. alt in both. - Weak-mod epidote alt from 171-174.		< 1% PY in Pyroxenite as dissem and along fracts. - Trace Mo as dissem and smears along fracts from 171-174. Mo < 0.5%		50	5-10	1-2	8	P
180	190	8.7	87%	- From 180-190 Pyroxenite; strongly magnetic; light black in color; hematite blebs. - From 183-187 shear sfc have 'polished' appearance; slickensides ~ 60° from horizontal. Along these sfc smeared PY and Hematite - trace Mo. Dominant angle of shears to core axis ~ 0-10°.		- Presence of hematite blebs and staining - Strong carb. alt along fracts		≤ 1% PY in Pyroxenite as f.g. dissem and fract. fill. - Trace Mo along shear sfc as thin films		50-50	30	1-2	9	P
190	200'	8.6	86%	- From 190-200 Pyroxenite; mod - strongly magnetic; light black in color; hematite blebs throughout.		- Presence of hematite blebs and staining. - Strong carb alt along fracts.		< 1% PY in Pyroxenite as. f.g. dissem and fract fill. - Trace Mo along shear sfc. < 0.5%		30	50	1-2	10	P

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DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
NIZK										507-14			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.			
Sept 15/78		Sept 20/78				BQ		677		NDH-78 D.D.H. -17			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/Ft		
200	210'	9.2	92%	<ul style="list-style-type: none"> - From 200-209' Pyroxenite; mod to strongly magnetic; numerous hematite blebs; light black in color; Strong Mo along fract @ 202'. - From 209-210' Peridotite; very strongly magnetic; dark black, very f.g.; Contact @ 209 indistinct; numerous white splotches of serp after olivine. 		<ul style="list-style-type: none"> - Hematite blebs in Pyroxenite. - Strong carb altⁿ along fract. 		<ul style="list-style-type: none"> - Strong Mo along 50° fract @ 202' Mo ≤ 1% - <1% PY as dissem and fract fill 		30-40	1-2	7	P
210	220'	8.5	85%	<ul style="list-style-type: none"> - From 210-211 continuation of Peridotite dike; very strongly magnetic; Lower contact appears to be sharp @ 20° to core axis. Trace dissem CP. - From 211-220' Pyroxenite; mod-strongly magnetic; hematite blebs. - At 218' f.g. hornblende? dike subparallel to core axis. non magnetic; Mo stringers and dissem. follow contact. 		<ul style="list-style-type: none"> - Hematite blebs in Pyroxenite. - Epidote and chlorite altⁿ in Hb. dike. - Strong carb altⁿ along fract. 		<ul style="list-style-type: none"> - Trace dissem CP @ 210.5' CP < 1% - <1% PY as dissem and fract fill in both PY > CP. - Trace Mo along fract < 0.5% 		50-60	1-2	8	P
220	230'	9.2	92%	<ul style="list-style-type: none"> - From 220-230 Pyroxenite. - From 220-226' Pyroxenite; mod-strongly magnetic; light black in color; few hematite blebs. - From 226-230 hybrid zone of 'altered' and less altered Pyroxenite 		<ul style="list-style-type: none"> - Hematite blebs less abundant. - Strong carb altⁿ along fract. 		<ul style="list-style-type: none"> - <1% PY as dissem and fract fill. - Trace Mo along fract. < 0.5% 		50-60	1-2	7	P
230	240'	8.7	87%	<ul style="list-style-type: none"> - From 230-240 Pyroxenite; mod to strongly magnetic; light black in color - Slickensides approx 50° from horizontal 		<ul style="list-style-type: none"> - Hematite blebs absent - Strong carb altⁿ along fract. 		<ul style="list-style-type: none"> - ~1% PY as dissem and fract fill. - Trace Mo along fract < 0.5% 		50-60	1-2	8	P
240	250'	8.9	89%	<ul style="list-style-type: none"> - From 240-250 Pyroxenite; slightly to mod magnetic; mod grey green to light black in color. - Alteration, intensity varies from 240-250'. From 240-244 greenish in color with epidote and chlorite altⁿ. From 244-250 relatively unaltered with light blackish color. 		<ul style="list-style-type: none"> - Strong carb altⁿ along fract. - Epidote and chlorite altⁿ. - Hematite blob absent. 		<ul style="list-style-type: none"> - At 240' Mo smears along fract. Mo ≤ 0.5% - ~1% PY as dissem and fract fill. 		50-60	1-2	7	P

Serpent zone in pyroxenite?

7451

DRILL LOG

SHEET NO.

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
NIK										607 14			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.			
Sept 15/78		Sept 20/78				BQ		677		D.D.H. 110.4-78 -17			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/FI		
250	260'	9.5	95%	-From 250-260 Pyroxenite; slight to mod. magnetic; grey to light black in color. No visible hematite blebs; relatively fresh; dark black anhedral to subhedral xtals within lighter grey matrix. -Slickensides along shear sfcs. ~60° from horizontal.		-Presence of some light green alt ^a patches -Siliceous? carb along fracts. -Weak epidote along fracts @ 250.5' -Chloritic alt ^a patches?		<1% PY as predom very f.g. dissem - also along fracts.		50 40 20	1-2	4	P
260	270'	7.3	95%	-From 260-270' Pyroxenite; mod magnetic; grey to light black in color. No visible hematite blebs; for the most part relatively fresh except for small section from 267.6-270. dark black anhedral to subhedral xtals (augite?) within lighter grey matrix over most of section. -From 267.6-270' alt ^a quite intense; original xtal textures destroyed by alt ^a ; slightly magnetic; light green color. Slickensides ~60° from horizontal.		-Light green alt ^a patches -Along 0-10° fracts appears serpentinized -Siliceous? carb and talc along fracts.		<1% PY as very f.g. dissem and smears along Slickensided sfcs.		0-20 50	1-2	3-4	P
270	280	9.6	96%	-From 270-280' Pyroxenite; mod. magnetic; grey to light black in color; No visible hematite blebs; relatively fresh - original xtal textures preserved; distinct dark black anhedral to subhedral xtals (augite?) within lighter grey matrix; light green chloritic? alt ^a blebs. -Slickensides still @ ~60° from horizontal.		Some light green alt ^a patches. -Serp and siliceous carb. along fracts.		<1% very f.g. dissem PY.		0-10 50	1-2	2-3	P
280	290'	10	100%	-From 280-289' Pyroxenite; mod magnetic; grey to light black in color; No visible hematite; relatively fresh - original xtal textures preserved; distinct dark black anhedral to subhedral xtals; -From 289-289.5 Peridotite; strongly magnetic; upper and lower contacts irreg. sharp; dark black with streaks of white (serp after olivine). -From 289.5-290 Pyroxenite.		-Some light green alt ^a patches -Serp and carb alt ^a along fracts.		Approx 1% very f.g. dissem PY in Pyroxenite -Trace Mo smear along fract sfc. in Pyroxenite <0.5% -Approx 1% PY in Peridotite		20 40 50	1-2	2	P
290	300'	9.7	97%	-From 290-300' Pyroxenite; mod magnetic; grey to light black in color; After ~292' distinct hematite blebs; relatively fresh rock; distinct dark black anhedral to subhedral xtals. -At 291.5 Peridotite dike; strongly magnetic; approx 2" wide; upper contact irregular, bottom contact sharp at ~30°. From bottom contact to ~292 lighter black, very f.g. peridotite ?? (light green alt ^a).		-Some light green alt ^a patches -Serp. carb. and talc alt ^a along fracts. -Splashes of serp after olivine in peridotite		Approx 1% very f.g. dissem PY in Pyroxenite -Approx 1-2% f.g. dissem PY in Peridotite - near contact esp. -No visible Mo or CP.		20 40	1-2	4	P

Olivine Pyroxenite

7451

DRILL LOG

SHEET NO. 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
NIK										7-0914			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.			
Sept 15/78		Sept 20/78				BQ		677		D.D.H. NDH-78-17			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/FI		
300	310'	6.5	85%	- From 300-310' Pyroxenite; mod magnetic; grey to light black in color; few hematite blebs; fresh over most of section; dark block anhedral-subhedral augite? xtals. - From 309-310 Pyroxenite more altered than previously; lighter grey green in color; slightly magnetic; Presence of Mo and PY smears along fract.		- Serp and carb alt ⁿ along fract. - light green alt ⁿ from 309-310 due to chlorite.		- Approx 1% f.g. dissem PY in Pyroxenite - Trace Mo as smear along 30° fract in altered Pyroxenite - also PY. Mo < 0.5%		0-10 30-60	1-2	4	P
310	320'	9.3	93%	- From 310-320' Pyroxenite; - From 310-314' more altered Pyroxenite; mod grey green in color; slightly-mod magnetic; original textures still visible. - From 314-320 Pyroxenite; light black to grey in color; anhedral to subhedral dark block (augite?) xtals.		- light green envelopes - mod grey green color from 310-314. - Serp, carb alt ⁿ along fract.		Approx 1% PY in Pyroxenite as f.g. dissem fractfill and smears. - No visible Mo or CP.		50-60 20	1-2	2-3	P
320	330'	9.7	97%	- From 320-330 Pyroxenite; mod magnetic; grey to light black in color; anhedral-subhedral augite? xtals; relatively fresh; appears to be finer grd. size than previously seen.		- light green alt ⁿ patches and envelopes - Serp, carb. alt ⁿ along fract. - Bluish tinged mineral along 0-10° fract = ??		PY conc. predom along fract ~ 1%. - At 329.5 trace Mo along 10° fract with serp. and bluish mineral Mo < 0.5% Trace CP in vein @ 329.5 occur as dissem CP < 0.5%		40 0-10	1-2	2-3	P
330	340'	9.8	98%	- From 330-334 Pyroxenite; mod. magnetic; grey to light black in color; anhedral-subhedral augite? xtals; finer grd; - From 334-335.5' altered Pyroxenite; slightly magnetic; original xtal textures appear to be completely obliterated by alt ⁿ . light gn. in color over most part.; Defineable 'contacts' between the less altered and 'altered Pyroxenite' @ ~ 20° to core axis. Strong CP + PY in this section. Predom carb alt ⁿ . - From 335.5-340' Pyroxenite similar to that from 330-334'.		- Serp, carb alt ⁿ along fract. - light green alt ⁿ envelopes - From 334-335.5 alt ⁿ intense; light green in color predom; some late alt ⁿ along fract. strong Bl. alt ⁿ - visible biotite blebs.		- From 330-334 and from 335.5-340' f.g. irreg dissem PY ~ 1%. - From 334-335.5 strong CP and PY blebs. CP in this section ~ 2-3% PY ~ 5-7% PY > CP.		30-40	1-2	3-4	P
340	350'	10	100%	- From 340-350' Pyroxenite; mod. magnetic; grey to light black in color; anhedral-subhedral augite? xtals.; fine grd in some sections. At 349.5 Pyroxenite; slightly magnetic; mod grey green in color. Trace Mo smears along 40-50° (vertical) fract. sfc. Slickensides 50-60° from horizontal.		- Serp, carb. alt ⁿ along fract. - light green alt ⁿ patches. - Chlorite alt ⁿ @ 349.5.		Trace < 1% f.g. dissem PY in Pyroxenite. - Trace Mo along 40-50° fract sfc. Mo < 0.5%.		50-60 20	1-2	1-2	P

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DRILL LOG

SHEET NO. 8 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.			
NIK										D.D.H. NDH-76-17			
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.			
Sept 15/78		Sept 20/78				BQ		677'		D.D.H. NDH-76-17			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/F1		
350	360'	7.5	95%	-From 350-360 Pyroxenite; mod. magnetic; grey to light black in color; Anhedral - subhedral augite? xstals visible up to ~356. from 354-360 becoming finer grnd. -At 359' light green aH ² envelope ~1" wide. Strong f.g. dissem PY, trace dissem Mo and CP; soft nature of rock due to intense aH ² .		Serp, carb aH ² along fract. Intense aH ² @ 359'. -chlorite.		Trace <1% PY as f.g. irreg. dissem. -At 359' in envelope strong PY ~ 3-5% trace Mo and trace f.g. dissem of CP. PY >> CP.		50-60	1-2	3-4	P
360	370'	7.6	96%	-From 360-368.5 Pyroxenite; mod. magnetic; grey to light black in color; Anhedral - subhedral augite? xstals. Trace hematite, surrounding xtal. -From 368.5 - 368.7 Feld Porphyry; slightly magnetic; both upper and lower contacts sharp @ 40°; pitted; strong epidote aH ² along contact; heavily pyritized on both contacts; Trace CP and Mo along contacts. -From 368.7 - 370 Pyroxenite; mod. magnetic; as from 360-368.5.		Hematite blobs in Pyroxenite Serp, carb aH ² along fract. Epidote aH ² along contact with fold Porphyry.		Trace, <1% PY as f.g. irreg. dissem in Pyroxenite -Trace Mo and CP along 40° contact of Feld Porphyry with Pyroxenite -F.g. dissem CP in Feld Porphyry		50-60	1-2	3	P
370	380'	7.4	94%	-From 370-380 Pyroxenite; mod. magnetic; appear fine grnd near 370, becoming coarser grnd near 380'; grey to light black in color.; Anhedral - subhedral augite? xstals. -At 379 20° fract with trace CP dissem.; strong talc and carb aH ² ; PY along fract @ 50° shows ~ 1/2" offset.		Few hematite blobs in Pyroxenite Carb, talc aH ² along fract. Serp along certain fract.		Approx 1% PY - occurs predom as fract. fill also f.g. dissem. Trace Mo along fract @ 372 << 0.5% Trace CP along fract @ 379 << 0.5% PY >> CP.		50-60	1-2	2-3	P
380	390'	8.0	80%	-From 380-388 Pyroxenite; mod. magnetic; grey to light black in color.; few hematite blobs -From 388-390 very f.g. dark greenish-black hb? dike. Upper contact sharp @ 30° to core axis.; Dike runs ~ subparallel to core axis; non magnetic; numerous white dissem splotches in Hb dike; white Qtz veins throughout Hb dike.; Serp, talc aH ² along contact between Hb and Pyroxenite.; Pyroxenite altered to greenish color near Hb Dike.		Serp, talc, carb, aH ² along fract. Few hematite blobs in Pyroxenite. Chlorite from Hb in Hb dike.		≤ 1% PY in Pyroxenite - occurs as fract fill and f.g. dissem. Trace CP along Hb dike - Pyroxenite contact CP << 0.5% PY >> CP.		50-70	1-2	5	P
390	400'	9.7	97%	-From 390-392 Hb dike - non magnetic; very f.g. dark greenish-black as above. Contact sharp @ 20-30° -From 392-400 Pyroxenite -Pyroxenite altered to light - mod grey green color up to 396.5 slightly magnetic. A H ² to biotite? -From 396.5-400 Pyroxenite less altered; mod. magnetic; light grey to black in color.		Secondary biotite after Hb? Presence of hematite staining + blobs predom. in less altered pyroxenite -Chlorite in Hb dike -Talc + carb veinlet in Hb dike		Approx 1% PY in Pyroxenite - occurs predom as fract fill - also dissem. -<1% PY in Hb dike.		50-60	1-2	2	P

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LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		SHEET NO.	
NIK										9 of	14
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Sept 15/78		Sept 20/78				BQ		677'		NON-78 D.D.H. -17	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log	
From	To	Length	%Rec				F	V/F1	F/F1		
400	410'	9.3	93%	- From 400-405' Pyroxenite; mod - non magnetic depending upon alt ² intensity. - from 400 to ~403 Pyroxenite fresh - light grey to black in color, mod magnetic; from 403-405 light - mod alt ² ; greenish in color non magnetic.	Talc, carb, serp. alt ² along fract - Hematite alt ² as f.g. blabs	<1% PY in Pyroxenite - occurs as f.g. dissem. - Strong PY in Hb diorite follow fract. and irreg. dissem.	50-60			1-2	2-3
				- From 405-410' Hb Diorite; slightly magnetic over most part - locally, magnetite blabs = mod to strongly magnetic; approx 10-15% mafics - predom euhedral laths of hb; hb x'tals appear to have weak foliation. Upper contact with Pyroxenite sharp @ 30° to core axis; vuggy nature at contact with prominent white mineral (H-S) with radiating x'tals = hematite(?) in Hb Diorite.	- Weak to mod propylitic alt ² in Hb Diorite - epidote occurrence as dissem blabs. - Weak pervasive carb. alt ² in Hb Diorite.	PY ~ 5-7%. Trace <0.5% CP in Hb diorite - appears to be conc. mainly near contact - elsewhere as very f.g. dissem. PY + CP					
410	420'	10	100%	- From 410-420 Hb Diorite; slightly magnetic; light grey in color; approx 10-15% mafics - with some euhedral laths of hornblende, secondary biotite after hb?; prominent veinlets @ ~50° from core axis with dark black alt ² envelope.	- Weak to mod propylitic alt ² in Hb Diorite - Weak pervasive carb alt ²	- Strong PY as dissem and fract fill. PY ~ 5% - CP mineralization restricted to fract and veinlets. Magnetite	50-60			2-3	2-3
				- Lower contact @ 420' sharp at angle of ~40° to core axis. - Mineralization conc. predom along fract and veinlets. Greatest CP mineralization near 419' as stringers and blabs within sometimes vuggy field vein. Trace Bernite surrounding CP blab @ 420'.	- Blueish tinged mineral along fract.	CP appears to be near 419' along (vuggy) field vein. - euhedral trace along fract. CP ~ 4.5%. - Trace Bernite <0.5% - No visible Ho.					
420	430'	9.7	97%	- From 420-430' Pyroxenite; mod magnetic; light grey to a light green color; dark black anhedral - subhedral augite? x'tals near 420 - becoming finer grnd. near 430'; presence of reddish hematite blabs near 420.	Serp, talc, carb alt ² along fract - Hematite? blabs near 420'	- Mineralization weak - <1% PY predom as fract fill.	60			1-2	2-3
					- Mod green alt ² along some fract = chlorite alt ² ??	- No visible CP or Ho.					
430	440	8.9	89%	- From 430-440' Pyroxenite; mod magnetic over most of section; light grey-green in color; fine grnd.; over - alt ² intensity increases from ~436.5-440'; Core much more broken up; mod green color along fract. Talc, carb + serp	Serp, talc, carb alt ² along fract. - Some visible hematite blabs near 430'.	<1% PY as irreg dissem - No visible Ho or CP.	60			1-2	5
				alt ² abundant; No visible mineralization along fract s'cs.	- From ~436.5-440 mod green alt ² color.						
440	450'	9.4	94%	- From 440-450' Pyroxenite; mod magnetic; light grey to black in color except from 440-441.5 = mod grey green due to alt ² ; fine grnd; Core broken up in altered section from 440-441.5'	- Serp, talc, carb alt ² along fract - From 440-441.5 alt ² to mod grey green color.	Mineralization weak - <1% PY predom along fract. - Trace <0.5% Ho along fract s'cs @ 446'.	50			1-2	5
					- Weak pervasive carb alt ² .						

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LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		SHEET NO.			
NIK										10 of 14			
DATE STARTED		DATE COMPLETED		SURVEYS				HOLE SIZE		TOTAL DEPTH			
Sept 15/78		Sept 20/78						BCR		677'			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rec							F	V/FI		
450	460'	9.1	91%	<ul style="list-style-type: none"> - From 450-460' Pyroxenite; mod magnetic overmost of section; light black-grey in color; hematite blebs where altⁿ is weak. - From 459-460 a 1/4"-1/2" wide calcite-feldspar veinlet subparallel to core axis. Within this veinlet few large (~1/4") blebs of CP. Altⁿ in this area = mod with mod green altⁿ color, non magnetic; Abundant talc, carb. altⁿ along fract. 		<ul style="list-style-type: none"> - From 450-459. - Predom weak altⁿ - Serp, carb, talc along fract. 		<ul style="list-style-type: none"> - From 450-459 mineralization weak <1% PY. - From 459-460 along field-calcite veinlet few large CP blebs - trace PY; In this 1 ft section CP >>> PY. - Trace Mo along fract slc @ 456' 		65			
460	470'	8.7	87%	<ul style="list-style-type: none"> - From 460-470 Pyroxenite; mod magnetic; light black-grey in color; Presence of hematite blebs - From 465-475.5 altⁿ mod; light to mod green in color vuggy; cavities filled with calcite; Dominant shears @ 0-50'; No visible CP or Mo. 		<ul style="list-style-type: none"> - Serp, carb, talc altⁿ along fract. - light to mod green altⁿ zone from 465-475.5 - Hematite star blebs where altⁿ = weak. 		<ul style="list-style-type: none"> <1% PY as fg dissem and along fract. Majority of PY in altered zone from 465-475.5 		0-5			
470	480'	9.4	94%	<ul style="list-style-type: none"> - From 470-480' Pyroxenite; mod magnetic; light black to grey in color; weak altⁿ; presence of hematite blebs; rel fine gnd. 		<ul style="list-style-type: none"> - Serp, carb, talc altⁿ along fract. - Weak altⁿ = light black to grey color. - Weak pervasive carb altⁿ. 		<ul style="list-style-type: none"> - Trace <1% PY as fg dissem and along fract. - Trace <<0.5% CP ^{within} along 20' min. - occurs as small blebs. 		150			
480	490'	9.5	95%	<ul style="list-style-type: none"> - From 480-490' Pyroxenite; mod magnetic; light black to grey in color; approx 5-10% hematite blebs; fine gnd; weak altⁿ. 		<ul style="list-style-type: none"> - Serp, carb, and abundant talc along fract. - Weak altⁿ = light black color. - Presence of hematite blebs - Weak pervasive carb altⁿ. 		<ul style="list-style-type: none"> <<1% fg dissem PY. 		30			
490	500'	10	100%	<ul style="list-style-type: none"> - From 490-500 Pyroxenite; mod magnetic; light black to grey in color; hematite blebs; fine gnd; weak altⁿ. 		<ul style="list-style-type: none"> - Serp, carb and abundant talc altⁿ along fract. - Presence of Hematite blebs - Weak pervasive carb altⁿ. 		<ul style="list-style-type: none"> <1% fg dissem PY. - Trace Mo along fract slc @ 499 <<0.5% 		20			
(470)	(500)			7451		<ul style="list-style-type: none"> - Weak pervasive carb altⁿ. 							

DRILL LOG

SHEET NO. 11 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
AIX											NDH-78-17
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Sept 15/78		Sept 20/78				3Q		677'			NDH-78-17
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION		STRUCTURE			
From	To	Length	% Rec					F	V/F	F/F	Graph
500	510'	8.5	25%	<ul style="list-style-type: none"> - From 500-509 Pyroxenite; mod. magnetic; light black to grey in color; hematite blebs; weak alt. - From 509-510 Feld. Porphyry and altered Pyroxenite assimilated. non magnetic; Feld phenocrysts anhedral to subhedral, approx 3-5 mm diam; Irregular sharp contacts; Subangular to angular clasts of Pyroxenite assimilated into Feld Porphyry. Biotite appears to be primary. 	<ul style="list-style-type: none"> Serp, carb, talc alt along fract in Pyroxenite. Weak pervasive carb alt Weak pervasive carb alt in Pyroxenite Feld Porphyry. 	<ul style="list-style-type: none"> < 1% irreg dissemin. f.g. PY in Pyroxenite ≤ 1% f.g. dissemin PY in Feld Porphyry - No visible CP or Mo. 		20	1-2	4	
510	520'	10	100%	<ul style="list-style-type: none"> - From 510-515 hybrid zone of Feld Porphyry and altered Pyroxenite; Feld Porphyry = non magnetic, Pyroxenite = slightly magnetic; Irregular sharp contacts; Feld Porphyry as above; - From 515-520 f.g. light black Pyroxenite; slightly magnetic; hematite blebs found locally where pyroxenite is pitted. - locally magnetic blebs. 	<ul style="list-style-type: none"> Predom. serp, carb and talc alt along fract in Pyroxenite Weak pervasive carb alt in Feld Porphyry. 	<ul style="list-style-type: none"> < 1% irreg dissemin f.g. PY in Pyroxenite. Approx 1% very f.g. dissemin PY in Feld Porphyry. Trace Mo along fract @ 515' < 0.5% 		30	1-2	3	
520	530'	9.1	91%	<ul style="list-style-type: none"> - From 520-530' Pyroxenite; mod magnetic in weakly altered Pyroxenite, slightly to non magnetic in altered Pyroxenite. Light black to grey in weakly altered sections. - From 522-523 and from 528.5-530 mod altered Pyroxenite. mod grey green in color; non magnetic; Core broken up in these sections; vuggy nature. 	<ul style="list-style-type: none"> - Predom. serp, carb and talc alt along fract. - Weak pervasive carb alt. 	<ul style="list-style-type: none"> < 1% f.g. irreg dissemin PY in Pyroxenite. 		30	1-2	5	
530	540'	9.3	93%	<ul style="list-style-type: none"> - From 530-540' Pyroxenite; slightly to mod. magnetic; f.g.; light black to grey over most of section - At 534' strong CP mineralization along a 20° fract. - From 534-540 CP mineralization as f.g. dissemin to blebs and stringers along veinlets. 	<ul style="list-style-type: none"> - Serp, carb and talc alt along fract. - Weak pervasive carb alt. 	<ul style="list-style-type: none"> - Approx 1-2% CP as f.g. dissemin, blebs and stringers. - ≤ 1% PY as f.g. irreg dissemin CP > PY. 		20	1-2	2-3	
540	550'	9.8	98%	<ul style="list-style-type: none"> - From 540-550' Pyroxenite; slightly magnetic; light grey-green in color; presence of hematite blebs locally; - CP mineralization continues up to 550' as f.g. dissemin and fract. Trace Mo along 30° fract. - Magnetic blebs. 	<ul style="list-style-type: none"> - Serp, carb and talc alt along fract. - Weak pervasive carb alt - Light green-grey alt color. 	<ul style="list-style-type: none"> - Approx 1% CP as f.g. dissemin and fract. fill. CP > PY - Trace Mo along 30° fract. slcs. - < 1% f.g. dissemin PY. 		30	1-2	2	

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DRILL LOG

SHEET NO. 12 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	D.D.H.		
NIX												12 of 14	14
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.			
Sept 15/78		Sept 20/78				BQ		677		NDH-78-17			
DEPTH		CORE		LITHOLOGY		ALTERATION		MINERALIZATION		STRUCTURE			
From	To	Length	%Rcc							F	V/F1	F/F1	Graph Log
550	560'	9.5	95%	- From 550-551.5 dark black Peridotite? dike; strongly magnetic. Upper contact sharp @ ~ 70-80°. Lower contact sharp @ ~ 30° to core axis; hematite blobs along contact. - From 551.5-560' Pyroxenite; slightly magnetic; mod grey-green in color.		- Serp, talc, carb alt ⁿ in Pyroxenite along fracts. - Weak pervasive carb alt ⁿ in Pyroxenite.		- Strong Mo along 30° fracts in Pyroxenite. Mo < 0.5%. - Trace of along fract: < 0.5%. - 5/7% f.g. dissem PY in Pyroxenite CP < PY.		30			
560	570'	9.0	90%	- From 560-570' Pyroxenite; slightly magnetic; mod green-grey color; locally vuggy with some CP. At 565.5 vuggy Pyroxenite with euhedral xtals of actinolite?		- Serp, talc, carb alt ⁿ in Pyroxenite along fracts. - Weak pervasive carb alt ⁿ		- < 1% f.g. dissem PY in Pyroxenite - ~ 1% CP as f.g. dissem and fract fill. CP > PY. - Trace Mo along fracts.		30			
570	580'	9.8	98%	- From 570-580 Pyroxenite; slightly magnetic; mod grey green in color; locally vuggy with CP + Mo mineralization. - CP mineralization occurs as fill in vugs, stringers in veins and f.g. dissem. - Mo along fracts and fill in vuggy areas.		- Serp, talc, carb alt ⁿ predom along fracts - Weak pervasive epidote carb alt ⁿ		- Approx 12-15% CP as fract fill, dissem, stringers - ~ 1% PY as f.g. dissem CP > PY - Mo along fracts and vugs < 0.5%		30			
580	590'	9.2	92%	- From 580-590 Pyroxenite; slightly to mod magnetic; mod grey green in color; magnetite and hematite blobs. - Vuggy area @ 588 has CP fill and blobs surrounding vugs. Light green alt ⁿ color.		- Serp, talc, carb alt ⁿ predom along fracts. - Weak pervasive carb alt ⁿ . - Mod grey green color over most of section except @ 588 = light green		- < 1% f.g. irreg. dissem PY - < 0.5% CP CP occurs as dissem and locally as blobs.		30-35			
590	600'	9.3	93%	- From 590-600 alt ⁿ slightly to mod magnetic; mod grey green to light grey in color; hematite blobs. - Trace CP mineralization as very f.g. irreg. dissem. - PY predom along fracts. - No visible Mo.		- Serp, talc, carb alt ⁿ predom along fracts. - Very weak pervasive carb alt ⁿ . - Mod grey green to light grey alt ⁿ .		- Approx 1% PY - occurs predom along fracts. - Trace < 1% very f.g. irreg dissem CP PY > CP. - No visible Mo.		30			

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DRILL LOG

SHEET NO. 13 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.	
NIK										D.D.H. 78-17	
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		HOLE NO.	
Sept 15/78		Sept 20/78				3Q		677		D.D.H. 78-17	
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE				
From	To	Length	%Rec				F	V/Ft	F/Ft	Graph Log	
600	610	9.6	96%	<ul style="list-style-type: none"> - From 600 - 610' Pyroxenite; mod magnetic; light black to grey in color; weak altⁿ. - Along 20° calcite veinlets CP, PY and Ho dissem. 	<ul style="list-style-type: none"> - light black to grey in color - Serp, carb talc altⁿ along fract. - Weak pervasive carb. altⁿ. 	<ul style="list-style-type: none"> - Approx 1% PY as f.g. dissem and fract fill. - ≤ 1% CP as very f.g. dissem and fract fill PY > CP. - Ho predom along fract sfc. Ho ~ 0.5%. 	20-30	1-2	1-2		
610	620	7.0	70%	<ul style="list-style-type: none"> - From 610 - 615' hybrid zone of Pyroxenite and Ho Dike; Ho Dike very f.g. and dark black on broken sfc.; non magnetic; numerous white splotches; - From 615 - 617' Pyroxenite; mod to strongly magnetic; weak altⁿ; light black to grey in color. - From 617 - 620' Ho Dike; non magnetic; contact with Pyroxenite indistinct. - Core very broken from 610 - 615'. 	<ul style="list-style-type: none"> - Pyroxenite light black to grey over most of section - Serp, carb talc altⁿ in Pyroxenite - Carb fract fill in Ho Dike - Talc altⁿ along fract. 	<ul style="list-style-type: none"> - ≤ 1% PY as f.g. dissem and fract fill. - CP mineralization in both Pyroxenite and Ho Dike follow fract. CP ~ 0.5%. 	20-30	1-2	5		
620	630	9.5	95%	<ul style="list-style-type: none"> - From 620 - 621.5' Pyroxenite and Ho Dike; Ho dike subparallel to core axis and terminates @ 621.5'; Contacts sharp - From 621.5 - 630' Pyroxenite; mod to strongly magnetic; light black to grey; numerous small veinlets with CP and PY mineralization. At 629.5' strong CP along a 20° fract. sfc. 	<ul style="list-style-type: none"> - Carb and talc altⁿ in Ho Dike - Serp, carb, and talc altⁿ in Pyroxenite - Weak pervasive carb altⁿ (Pite). 	<ul style="list-style-type: none"> - Approx 1% PY and CP - predom along fract. PY ~ CP. - No visible Ho. 	20-30	2-3	1-2		
630	640	8.9	89%	<ul style="list-style-type: none"> - From 630 - 640' Pyroxenite; mod. magnetic; light black to grey in color; - Strong CP mineralization predom in veinlets - some as f.g. dissem. - Ho along fract w/ CP. 	<ul style="list-style-type: none"> - Serp, carb, and talc altⁿ in Pyroxenite - Weak pervasive carb altⁿ 	<ul style="list-style-type: none"> - Approx 1% CP and PY - predom along fract PY ~ CP. - Ho occurs along fract Ho ~ 0.3%. 	20-30	2-3	3		
640	650	10	100%	<ul style="list-style-type: none"> - From 640 - 650' Pyroxenite; mod magnetic; light black to grey in color. - CP mineralization conc along fract. - No visible Ho along fract. 	<ul style="list-style-type: none"> - Serp; carb and talc altⁿ. - Weak pervasive carb altⁿ. 	<ul style="list-style-type: none"> - CP mineralization conc along fract. - rarely as f.g. dissem. CP < 1%. - PY along fract ~ 1% PY > CP. 	10-30	1-2	3		

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DRILL LOG

SHEET NO. 14 of 14

LOCATION		CO-ORDINATES		NORTH		EAST		ELEVATION		HOLE NO.
NIK										
DATE STARTED		DATE COMPLETED		SURVEYS		HOLE SIZE		TOTAL DEPTH		D.D.H. NOV-78
Sept 15/78		Sept 20/78				BQ		677		
DEPTH		CORE		LITHOLOGY	ALTERATION	MINERALIZATION	STRUCTURE			Graph Log
From	To	Length	%Roc				F	V/F	F/F	
650	660	93	93%	- From 650-660 Pyroxenite; mod. magnetic; light grey in color; few hematite blebs. - Mineralization of CP predom along fract. - No visible Mo.	- Serp, carb, talc alt ² along fract. - Weak pervasive carb alt ² - Some epidote along veins.	CP and PY mineralization <1% predom along fract. PY ~ CP.	20			
660	670	9.6	96%	- From 660-661 Pyroxenite mod magnetic; light grey in color. - From 661-663 zone with Pyroxenite and Hb. Dike; Hb. Dike runs subparallel to core axis and 'pinches' out at 661 and 663'; dark green to black in color; Contacts sharp. - From 663-670' Pyroxenite; mod magnetic; light black to grey in color; weak alt ² .	- Serp, carb, talc alt ² along fract. - Weak pervasive carb alt ² - Some hematite blebs. - Bluish tinged mineral along fract.	<1% f.g. dissemin. PY <<1% f.g. dissemin. CP PY ~ CP. - No visible Mo.	20		1-2	4
670	677	65	93%	- From 670-677 Pyroxenite; mod. magnetic; light grey in color. - Slickensides at 673' with hematite and Mo smears. Slickensides @ 40-50° angle from horizontal.	- Serp, carb, talc alt ² along fract. - Weak pervasive carb alt ² - Strong epidote alt ² along some fract.	- Approx 1% PY in Pyroxenite predom as fract fill. - <0.5% CP as f.g. dissemin. and fract fill. - <0.5% Mo as smears along fract. s.f.s.	20		1-2	5

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