

6288

ASSESSMENT REPORT

COMBINED DRILLING AND RADIOMETRIC BOREHOLE PROBING

on the

KETTLE 12 MINERAL CLAIM

Osoyoos Mining Division

Located at approximately

$119^{\circ}12'W$ - $45^{\circ}12'W$
 $49^{\circ}42'N$

BY

B. B. Hughes

G. Gibson

W. I. Nelson

J. T. Walker

P. M. McAndless

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. _____

NORANDA EXPLORATION COMPANY, LIMITED
(No Personal Liability)

December 1, 1976 to May 5, 1977

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GENERAL STATEMENT

The mineral claim referred to in this assessment report is owned by Tye Lake Resources, Limited under option to Kerr Addison Mines Limited and Noranda Exploration Company, Limited (No Personal Liability) and recorded in the name of Kerr Addison Mines, Limited.

The mineral claim called the Kettle 12 mineral claim consists of 12 units and registered in the Osoyoos Mining Division.

Kettle 12 is part of the TYD Mineral Claim Group and other claims within the Group are within the Vernon as well as Osoyoos Mining Divisions, copies of this report are filed with the appropriate Divisions.

A program of diamond drilling and rotary drilling was initiated to test favorable areas for sedimentary-type uranium deposits within the mineral claim. Radiometric borehole probing was done in all holes while the drill rocks were still in place.

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rocks?

LOCATION AND ACCESS

The Kettle 12 Mineral Claim is located 25 kilometers by air south-east of Kelowna, B.C. at co-ordinates $119^{\circ}12'N-45^{\circ}12'W$. Access is along a good gravel road from highway 33. From Kelowna, through Rutland on highway 33 for approximately 40 kilometers then west along the McCulloch Road for 7 kilometers. The location of the claim is shown on Figure 1.

CLAIM STATISTICS

<u>NAME</u>	<u>MINING DIVISION</u>	<u>RECORD NO.</u>	<u>OWNER</u>	<u>OPTIONEES</u>
Kettle 12 (12 units)	Osoyoos	70	Tye Lake Resources Ltd.	Kerr Addison Mines Ltd. and Noranda Expl. Co., Ltd.

DRILLING

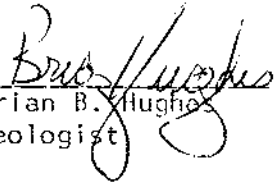
Diamond Drilling

Between December 1, 1976 and February 10, 1977 419.75 meters of diamond drilling were done in six holes. Core size in all 6 holes was HQ wire line and core that has not been sent out for assays has been put in wooden boxes and stored in a core shack on McCulloch Road approximately 7 kilometers west of the McCulloch Road - Highway 33 junction.

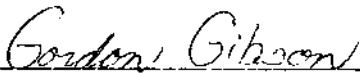
Rotary Drilling

Between March 7, 1977 and April 16, 1977 1013.76 meters of rotary drilling were done in seventeen holes. Cuttings collected over every 3.05 meter intervals have been bagged and stored in the core shack along with the HQ core.

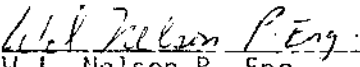
A Longyear Super #38 diesel powered drill was used for both types of drilling. The drilling was done on contract by H. Allen Diamond Drilling, Limited of Merritt, B.C.



Brian B. Hughes
Geologist

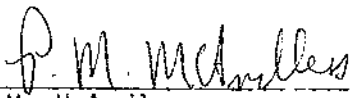


G. Gibson
Geologist



W.I. Nelson P. Eng.
Geologist

May 5, 1977



P.M. McAndless
Geologist

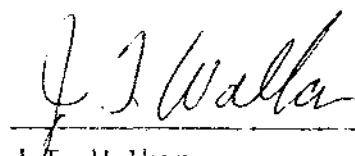
RADIOMETRIC BOREHOLE LOGGING

The radiometric logging was carried out utilizing a gamma ray spectrometer model GR - 410, 1½ inch diameter probe chart recorder and winch. The equipment was manufactured by Exploranium Corporation of Canada, Downsview (Toronto) Ontario.

The spectrometer was operated in the total count mode measuring all energy between the levels 0.5 and 3.0 Mev. A range setting of x 16 was used providing a full scale (100%) readings of 1600 c.p.s. A constant probe speed of 2 meters/minute was maintained during logging.

The actual operating and recording with the GR-410 at all drill sites was done by Noranda Exploration Company, Limited employees M. Veterli and L.C. Bradish under the general supervision of J.T. Walker.

May 5, 1977



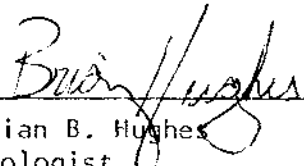
J.T. Walker
Geophysicist

STATEMENT OF QUALIFICATIONS

I, Brian B. Hughes of the City of Vancouver, Province of British Columbia do certify that:

1. I have been employed as a geologist with Noranda Exploration Company, Limited since April 1976.
2. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geological Sciences.
3. I am a member of the Canadian Institute of Mining and Metallurgy.

May 5, 1977'



Brian B. Hughes
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

APPENDIX 1
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Gordon Gibson of the City of Kamloops, Province of British Columbia do certify that:

1. I have been a temporary employee of Noranda Exploration Company, Limited during the period May 1973 to April 1976.
2. I have been a permanent employee of Noranda Exploration Company, Limited since May 1976.
3. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
4. I am a member of the Canadian Institute of Mining and Metallurgy.
5. I have held the position of Geologist for Noranda Exploration Company, Limited since May 1976.

Gordon Gibson

Gordon Gibson
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

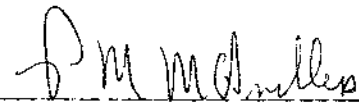
May 5, 1977

STATEMENT OF QUALIFICATIONS

I, Patrick M. McAndless of the City of White Rock, Province of British Columbia, do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since May 1973.
2. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
3. I am a member of the Geological Association of Canada and the Canadian Institute of Mining and Metallurgy.
4. I have held the position of geologist for Noranda Exploration Company, Limited since May 1973.

May 5, 1977



Patrick M. McAndless
Geologist
Noranda Exploration Company, Limited
(No Personal Liability)

STATEMENT OF QUALIFICATIONS

I, James T. Walker of the City of Vancouver, Province of British Columbia do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since May, 1958.
2. I have held the position of Geophysicist for Noranda Exploration Company, Limited, British Columbia since June, 1965.
3. I am a member of the Canadian Institute of Mining and Metallurgy.
4. I am a member of the Canadian Exploration Geophysical Society.
5. I am a member of the British Columbia Geophysical Society.



J. T. Walker
Geophysicist
Noranda Exploration Company, Limited
(No Personal Liability)

May 5, 1977

APPENDIX 2
COST STATEMENTS

NORANDA EXPLORATION COMPANY, LIMITEDSTATEMENT OF COST

PROJECT: Tyeo Peregrine

TYPE OF REPORT: Diamond Drilling

(a)	Employees: G. Gibson, B. Hughes, C. Lee, L. Reinertson, I. Saunders W. Nelson Number of days: 323 Dates worked: Between Dec. 2/76 and Apr. 30/77		
(b)	Average cost per day \$ 68.88 Total cost \$ 323 x 68.88		\$ 22,248.24
(c)	Cost of food & accomodation		\$ 11,792.73
(d)	Cost of transportation		
	i. During work period		
	type: trucks		
	cost: 6,101.13		
	ii. To and from Claims from within B.C.		
	cost: 1,310.71		7,411.84
(e)	Cost of aircraft		
	i. Fixed wing:		
	ii. Helicopter:		
(f)	Cost of instruments		
	i. Rental:		
	ii. Supplies		
(g)	Cost of geochem analysis (details attached):		
(h)	Cost of report preparation:		4,970.88
(i)	Other: Supervision, R.C. Heim P.Eng. \$13,445.25 G.E. Dirom P. Eng. Field & Camp Supplies 2,141.34 Assays 1,044.00 B.C. Tel 681.84 Cost Work 3,644.63		20,958.06
	H. Allen Diamond Drilling		114,093.54

TOTAL

181,475.29

NORANDA EXPLORATION COMPANY, LIMITEDSTATEMENT OF COST

PROJECT: Tyee - Peregrine

TYPE OF REPORT: Drill Hole Probe

(a) Employees: L. Bradish, M. Vetterli, J.T. Walker		
Number of days: 192		
Dates worked: Between Dec. 2/76 and Apr. 30/77		
(b) Average cost per day \$ 88.48		
Total cost \$ 88.48 x 192		\$ 16,988.16
(c) Cost of food & accomodation		\$ 4,185.91
(d) Cost of transportation		
i. During work period		
type: truck	2,207.05	
cost:		
ii. To and from Claims from within B.C.		
cost:	729.53	2,936.05
(e) Cost of aircraft		
i. Fixed wing:		
ii. Helicopter:		
(f) Cost of instruments		
i. Rental:	4,895.05	5,741.83
ii. Supplies	846.78	
(g) Cost of geochem analysis (details attached):		
(h) Cost of report preparation:		638.43
(i) Other: Supervision R.C. Hiem P.Eng. & G.E. Dirom P.Eng.		5,915.91

TOTAL

36,406.29

PROJECT: Type Peregrine

TYPE OF REPORT: Diamond Drilling and Drill Hole Probe

Total drilling costs as per C-1 \$ 181,475.29

Less: amounts used in reports filed:

March 10, 1977	5,287.77	
April 4, 1977	<u>59,732.23</u>	<u>65,020.00</u>

Net drilling costs \$ 116,455.29

Total probe costs as per C-2 36,406.29

Less: amounts used in reports filed:

March 10, 1977	\$ 1,700.99	
April 4, 1977	<u>14,469.41</u>	<u>16,170.40</u>

Net probe costs 20,235.89

Net drilling and probe costs
available for this report136,691.18

(Amount to be applied at this time \$46,300)

APPENDIX 3
DRILL CONTRACT

NOV 24 1975 ✓

H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 378-4494

P.O. BOX 1397
MERRITT, B.C.
VOK 2B0

CONTRACT - TYEE PROJECT

BETWEEN: NORANDA EXPLORATION CO. LTD.,
1050 Davie Street, P.O. Box 2380,
Vancouver, B.C. V6B 3T5.

(Hereinafter referred to as the
"COMPANY" of the First Part.)

AND: H. ALLEN DIAMOND DRILLING LTD.,
Box 1397,
Merritt, B.C. VOK 2B0

(Hereinafter referred to as the
"CONTRACTOR" of the Second Part.)

A. THE CONTRACTOR COVENANTS AND AGREES:

1. That all holes shall be drilled with HQ wireline equipment.
2. That the Contractor shall use his best endeavour to complete all holes according to the wishes of the Company, but should rock conditions prevent successful completion of the hole, the Contractor is not obliged to complete the same, but shall be paid for such incomplete holes at contract rates for the completed footage.
3. COMPENSATION:
The Contractor shall be responsible for all dues and assessments payable under any Worker's Compensation Act or Ordinance whether Provincial or Territorial, in respect of its employees.

4. ECOLOGY AND SANITATION:

During the course of the work, the Contractor shall keep the sight of any drilling and camp site area free from accumulation of waste materials, rubbish or garbage and upon completion of the work, shall remove all tools, scaffoldings, surplus materials rubbish and garbage and leave the working and camp site in a clean condition. The Contractor shall observe and comply with all applicable Federal and Territorial laws, regulations and orders relating to the prevention of forest fires and sanitation in the bush.

H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 378-4494

-- 2 --

P.O. BOX 1397
MERRITT, B.C.

CONTRACT - TYEE PROJECT -

- A.
5. Contractor will supply all necessary equipment and transportation for his crew.
 6. Contractor will supply water haul vehicle for the sum of \$1,000.00 per month, this covers rental and operating costs.
 7. Contractor will supply one J.D. 550 tractor for moving the drill at the cost of \$24.00 per hour when tractor is in use. There will be no monthly charge.
 8. Contractor will supply operator for tractor work and water haul. This man to be paid at the rate of \$10.00 per hour.
 9. Contractor pays the cost of moving the drill up to a distance of 1,000 feet. Moves over 1,000 feet charged to the Company at \$20.00 per hour.

B. THE COMPANY COVENANTS AND AGREES:

1. That payment for the herein described work shall be \$14.00 per foot for overburden and \$18.00 per foot for core drilling.
2. Cementing drill holes will be charged to the Company at cost plus 10%. Cost of labour being union rates. Cost of equipment rental during cementing will be \$20.00 per day.
3. Casing which is non-recoverable charged to the Company.
4. Company to supply room and board for drill crew at the rate of \$10.00 per day per man.
5. Mud and additives charged at cost.

IN WITNESS WHEREOF these presents have been executed by the parties hereto this _____ day of _____ A.D. 1976.

NORANDA EXPLORATION CO. LTD.

H. ALLEN DIAMOND DRILLING LTD.

VOK 280.

CONTRACT - TYEE PROJECT (Second Drill)

BETWEEN: NORANDA EXPLORATION CO. LTD.,
P.O. Box 2380, 1050 Davie Street,
Vancouver, B.C. V6B 3T5.

(Hereinafter referred to as the
"COMPANY" of the First Part.)

AND: R. ALLEN DIAMOND DRILLING LTD.,
Box 1397,
Herritt, B.C. VOK 280

(Hereinafter referred to as the
"CONTRACTOR" of the Second Part.)

A. THE CONTRACTOR COVENANTS AND AGREES:

1. That all holes shall be drilled with BQ wireline equipment.
2. That the Contractor shall use his best endeavour to complete all holes according to the wishes of the Company, but should rock conditions prevent successful completion of the hole, the Contractor is not obliged to complete the same, but shall be paid for such incomplete holes at contract rates for the completed footage.

3. COMPENSATION:

The Contractor shall be responsible for all dues and assessments payable under any Worker's Compensation Act or Ordinance whether Provincial or Territorial, in respect of its employees.

4. ECOLOGY AND SANITATION:

During the course of the work, the Contractor shall keep the sight of any drilling and camp site area free from accumulation of waste materials, rubbish or garbage and upon completion of the work, shall remove all tools, scaffoldings, surplus materials rubbish and garbage and leave the working and camp site in a clean condition. The Contractor shall observe and comply with all applicable Federal and Territorial laws, regulations and orders relating to the prevention of forest fires and sanitation in the bush.

5. Contractor will supply all necessary equipment and transportation for his crew.

Contract - Tye Project (Second Drill):

- A.6. Contractor will supply one tractor for the rate of \$400.00 per month and \$10.00 per hour when it is in use.
7. Contractor will supply core boxes for the sum of \$3.00 each.
8. Contractor will pay the cost of moving the drill up to a distance of 1,500 ft. Moves beyond this distance will be charged at the rate of \$10.00 per man per hour.

B. THE COMPANY COVENANTS AND AGREES:

1. That payment for the herein described work shall be \$12.00 per foot for overburden and \$10.00 per foot for core drilling.
2. Company supplies the water truck.
3. Cementing drill holes will be charged to the Company at cost plus 10%. Cost of labour being union rates. Cost of equipment rental during cementing will be \$20.00 per day.
4. Casing which is non-recoverable charged to the Company.
5. Mud and additives charged to the Company.
6. Cost of mob and demob \$500.00.

IN WITNESS WHEREOF these presents have been executed by the parties hereto this _____ day of _____ A.D. 1977.

NORANDA EXPLORATION CO. LTD.

H. ALLEN DIAMOND DRILLING LTD.

1977

H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 378-4494

P.O. BOX 1397
MERRITT, B.C.
VOK 2B0.

CONTRACT - TYEE PROJECT

BETWEEN: NORANDA EXPLORATION CO. LTD.,
P.O. Box 2380, 1050 Davie Street,
Vancouver, B.C. V6B 3T5.

(Hereinafter referred to as the
"COMPANY" of the First Part.)

AND: H. ALLEN DIAMOND DRILLING LTD.,
Box 1397,
Merritt, B.C. VOK 2B0

(Hereinafter referred to as the
"CONTRACTOR" of the Second Part.)

A. THE CONTRACTOR COVENANTS AND AGREES:

1. The Contractor will supply equipment suitable for rotary drilling, core drilling or non coring probe holes.
2. That the Contractor shall use his best endeavour to complete all holes according to the wishes of the Company, but should rock conditions prevent successful completion of the hole, the Contractor is not obliged to complete the same, but shall be paid for such incomplete holes at contract rates for the completed footage.

3. COMPENSATION:

The Contractor shall be responsible for all dues and assessments payable under any Worker's Compensation Act or Ordinance whether Provincial or Territorial, in respect of its employees.

4. ECOLOGY AND SANITATION:

During the course of the work, the Contractor shall keep the sight of any drilling and camp site area free from accumulation of waste materials, rubbish or garbage and upon completion of the work, shall remove all tools, scaffoldings, surplus materials rubbish and garbage and leave the working and camp site in a clean condition. The Contractor shall observe and comply with all applicable Federal and Territorial laws, regulations and orders relating to the prevention of forest fires and sanitation in the bush.

H. ALLEN DIAMOND DRILLING LTD.

TELEPHONE 378-4494

P.O. BOX 1397
MERRITT, B.C.

CONTRACT - TYEE PROJECT continued.....

- A.
5. Contractor will supply all necessary equipment and transportation for his crew.
 6. Contractor will supply water to the drills at his expense up to a distance of 2,000 feet at his expense. Supplying water beyond this distance to be negotiated.
 7. Contractor will supply one J.D. 550 tractor for moving the drill at the cost of \$24.00 per hour when tractor is in use. There will be no monthly charge.
 8. Contractor pays the cost of moving the drill up to a distance of 2,000 feet. Moves beyond 2,000 feet charged to the Company at \$20.00 per hour plus truck costs.

B. THE COMPANY COVENANTS AND AGREES:

1. That payment for the herein described work shall be -
\$18.00 per foot for HQ core.
\$ 7.00 per foot for rotary drilling.
\$ 7.00 per foot for BQ size non core hole.
2. Mud and additives required for core drilling charged at cost. No charge for mud used when rotary or non core drilling.
3. Cost of moving in additional rigs will be \$400.00 per unit.
4. Company to supply room and board for drill crew at the rate of \$10.00 per day per man.

IN WITNESS WHEREOF these presents have been executed by the parties hereto this _____ day of _____ A.D. 1977.

NORANDA EXPLORATION CO. LTD.

H. ALLEN DIAMOND DRILLING LTD.

_____ *Mark Allen*

APPENDIX 4

DRILL LOGS

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size	Property	Project No	NTS No.						
Dec. 7/76		Dec. 15/76		HQ	TYEE HYDRAULIC	61J							
FIELD COORDINATES					SURVEYED COORDINATES					Sheet 1 of 3			
Lat.		Elev.		Dip	Lat.		Elev.		Dip		Hole No.		
100+50 N				Vertical -90	10046.00N		1267.33		-90°		NT - 1		
Dep.		Depth		Bearing	Dep.		Depth		Bearing				
93+50 E					9349.59E		68.93						
Footage	Rec'y	Graphic Log	Description			% Sulp.	Est. Grade	Sample No.	Lt.	Beta U308%	Gamma U308%	Calc. U308%	Chem. U308%
0 - 3.05	0		Casing - Using water										
3.05-15.25	0		Tricone - Using Mud										
15.25-17.00	100		Muddy Conglomerate; volcanic pebbles ranging in size from 4mm to 10cm with a dirty mud matrix. Cpm 1400					5501J	1.75	.002	.001	.003	.002
17.00-19.00	100		As above: Cpm 1300					5502J	2.00	.001	.001	.001	.001
19.00-21.00	95		As above; a few gneissic pebbles and 10cm volcanic boulders Cpm 1300					5503J	2.00	.002	.002	.002	.001
21.00-23.00	90		As above; slightly less muddy matrix more arkosic sandy matrix, some tuffaceous pebbles to boulders intersected					5504J	2.00	.001	.001	.001	.001
			Cpm 1500										
23.00-25.00	70		As above; a few green andesitic pebbles and a 80cm section rusty coloured matrix of arkosic sand 2900 Cpm					5505J	2.00	.003	.003	.003	.002
25.00-25.62	90		As above; 3300 Cpm					5506J	0.62	.007	.005	.010	.006
25.62-27.50	50		Boulder Conglomerate; tuffaceous and basaltic (non vesicular) boulders and pebbles in a Arkosic sand matrix 2500 Cpm					5507J	1.88	.004	.004	.004	.002
27.50-29.50	75		As above; Cpm 3100					5508J	2.00	.007	.005	.010	.007
29.50-31.11	100		As above; Cpm 3000					5509J	1.61	.009	.007	.011	.009
31.11-32.03	100		As above; Cpm 5000					5510J	0.92	.012	.010	.014	.011
32.03-34.00	70		As above; A few gneissic pebbles and boulders Cpm 4500					5511J	1.97	.010	.010	.010	.009
34.00-36.00	30		As above; with a arkosic sand section and low recovery Cpm 5000					5512J	2.00	.012	.007	.015	.011

DATE Dec. 14/76

LOGGED BY

BBH

Bruce H. ...

NORANDA EXPLORATION COMPANY, LIMITED

Collared Dec. 7/76		Completed Dec. 15/76		Core Size HQ	Property	Project No 61J	NTS No.				
FIELD COORDINATES					SURVEYED COORDINATES			Sheet 2 of 3			
Lat. 100+50 N	Elev.	Dip Vertical -90	Lat.	Elev.	Dip	Hole No.					
Dep. 93+50 E	Depth	Bearing	Dep.	Depth	Bearing	NT - 1					
Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	Beta U308%	Gamma U308%	Calc. U308%	Chem. U308%
36.00- 37.82	40		As above; sand section and low recovery. Cpm 5000			5513J	1.82	.015	.012	.020	.014
37.82- 40.00	50		As above; with a 1 meter section of sand and poor recovery, gneissic boulders and pebbles dominant rock type Cpm 4500			5514J	2.18	.014	.010	.016	.013
40.00- 42.00	60		Boulder Conglomerate; (as above) granitic to gneissic boulders and pebbles ranging in size from 5mm to 13cm minor andesitic pebbles. Matrix is an arkosic sand, grey in colour and similar composition as rock fragments. poor recovery Cpm 4500.			5515J	2.00	.016	.013	.020	.016
42.00- 43.16	80		No large boulders, pebbles 1 cm to 2.5cm in DIA. Cpm 6200			5516J	1.16	.023	.016	.030	.027
43.16- 45.00	80		Arkosic Sand; poorly sorted grey colour minor pebbles 3mm to 25mm Cpm 5800			5517J	1.84	.017	.014	.020	.018
45.00- 47.00	100		Boulder Conglomerate; Granitic to gneissic pebbles and boulders, in an decomposed pebble conglomerate matrix, minor volcanic pebbles. Cpm 5500			5518J	2.00	.017	.015	.021	.020
47.00- 48.00	100		As above; Cpm 5800			5519J	1.00	.016	.013	.020	.021
48.00- 50.03	80		Boulder Conglomerate; several 10cm sections with marcasite cementing the conglomerate one thin (2mm) coaly band Cpm 6500			5520J	2.03	.022	.017	.029	.029
50.03- 51.39	90		As above; a few coaly seams minor marcasite. Cpm 13,000			5521J	1.36	.049	.042	.059	.061
51.39- 52.5	80		Pebble Conglomerate; comprised of granitic to gneissic			5522J	1.11	.093	.083	.110	.110

DATE Dec. 14/76

LOGGED BY BBH

B. Hughes

NORANDA EXPLORATION COMPANY, LIMITED

Collared Dec. 7/76		Completed Dec. 15/76		Core Size HQ		Property TYEE HYDRAULIC			Project No 61J		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 3		
Lat. 100+50 N		Elev.		Dip Vertical -90		Lat.		Elev.		Dip		Hole No.		
Dep. 93+50 E		Depth 68.93		Bearing		Dep.		Depth		Bearing		NT - 1		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Beta U308%	Gamma U308%	Calc. U308%	Chem. U308%
			pebbles in a grey to black, muddy to sandy matrix locally cemented with marcasite, small area of coal at 52.1											
			Cpm 35,000											
52.5-53.83	95		Arkosic sand; probably derived directly from weathering of basement. Dark grey to black colour few coaly seams at 52.6. Marcasite cementing common Cpm 50,000						5523J	1.33	.225	.165	.303	.326
53.83-54.44	100		As above; a few granitic pebbles Cpm 40,000						5524J	0.61	.098	.081	.120	.115
54.44-55.05	100		Boulder Conglomerate; boulders of chloritized granite and few pebbles of competent granite. Decomposed boulder becoming an poorly sorted arkosic sand. Light grey to greenish colour. Cpm 4500						5525J	0.61	.024	.021	.028	.027
55.05-57.49	85		As above; dark grey to black colour. Coaly seams at 55.50 and from 56.0 to 57.20. Cpm 28,000						5526J	2.44	.061	.053	.072	.076
57.49-59.00	100		Valhalla Intrusive; chloritized and slightly crumbly. Granitic Cpm 2,000						5527J	1.51	.006	.005	.008	.004
59.00-60.00	100		As above; Cpm 1800						5528J	1.00	.002	.001	.003	.002
60.00-61.00	100		As above; pegmatitic for 0.8m slightly weathered becoming fine grained and gneissic											
61.00-68.93	100		Monashee Gneiss dark banded high grade gneiss pegmatitic and granitic textured locally. Fresh rock											
			EOH 68.93 Meters Background TV 1 CPM 1,300 to 2,000											
			Casing Left in Hole											

DATE Dec. 15/76

LOGGED BY

BBH

Bob Hughes

NORANDA EXPLORATION COMPANY, LIMITED

Collared Jan 8/77		Completed Jan 12/77		Core Size HQ	Property TYEE - HYDRAULIC	Project No 61J	NTS No. 82E/14E		
FIELD COORDINATES					SURVEYED COORDINATES				Sheet 1 of 6
Lat. 100+50 N	Elev.	Dip -90°	Lat. 10049.14N	Elev. 1266.21	Dip -90°	Hole No.			
Dep. 93+00 E	Depth	Bearing	Dep. 9303.48E	Depth 70.09 M	Bearing -	NT - 2			
Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.		
0-3.66	0		Casing - No Core						
3.66-15.24	0		Tricone - No Core						
15.24-	100		Muddy Conglomerate Poorly sorted, Predominantly tuffaceous and basaltic fragments ranging in size from 1mm to 20cm						
15.87			Clay matrix CPM; 1000 - 1500						
15.87-16.87	95		As above volcanic rock fragments 1 mm to 30cm, some granitic fragments CPM; 800 - 1500						
16.87-17.87	100		As above some gneissic fragments up to 10cm, CPM; 1000 - 1500						
17.87-	100		Muddy Conglomerate Polymictic, poorly sorted volcanic and granitic rock fragments ranging in size from 1mm to 5cm, clay matrix CPM; 1000 - 1800						
18.87									
18.87-19.87	95		As above rock fragments up to 8cm CPM; 1000 - 1500						
19.87-20.87	100		As above rock fragments up to 4cm, particle to matrix ratio (by volume) 30/70 CPM; 1000 - 1500						
20.87-21.87	95		As above; CPM; 1000 - 1500						
21.87-22.87	95		As above volcanic rock fragments up to 20cm, CPM; 1200-1700						
22.87-23.87	95		As above amygdaloidal basalt rock fragments up to 20cm, Fe-stained halos around some inclusions CPM; 1200 - 1700						
23.87-	100		Pebble Conglomerate Polymictic, poorly sorted, gneissic and volcanic rock fragments 1mm to 5cm in size silt matrix						
24.87			@23.41 - 24.87; boulder of Monashee gneiss. CPM; 1000-1500						

DATE Jan 16/77

LOGGED BY

GG

Gordon Gibson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	% U ₂ O ₈		
24.87-	80		As above particle to matrix ratio; 35/65 @24.87-25.13; continuation of gneiss boulder. Poor recovery in silty sections. CPM; 1000 - 1500									38		
25.87														
25.87-	75	4815	As above CPM; 1000 - 1500						5529J	1.00	1500	.001		
26.87-	90	4945	As above some fe-stained halos around rock fragments CPM - 1500						5530J	1.00	1500	.001		
27.87-	95	5670	As above rock fragments to 7 cm in size particle to matrix ratio; 30/70 CPM; 1000 - 1500						5531J	1.00	1200	.001		
28.87-	65	4340	<u>Siltstone</u> Rarely dispersed rock fragments less than 1cm in size within a grey silt matrix particle to matrix ratio; 20/80 @ 29-70 - 29.87; Cobble Conglomerate CPM; 1500 - 1700						5532J	1.00	1500	.001		
29.87														
29.87-	35	1370	<u>Cobble Conglomerate</u> ; poorly consolidated, poorly sorted rounded gneissic and volcanic rock fragments ranging up to 12cm in size in a sandy matrix, particle to matrix ratio; 70/30 CPM; 1500 - 1700						5533J	1.00	1800	.003		
30.87-	50	2260	<u>Cobble Conglomerate</u> (as above) CPM; 1500 - 2200						5534J	1.00	1500	.004		
31.87-	40	1260	As above CPM; 2500						5535J	1.00	2000	.006		
32.87-	80	2920	As above fewer large particles. Particle to matrix ratio; 60/40, CPM; 2300 - 2700						5536J	1.00	2000	.005		
33.87-	95	4550	As above some chloritized granitic cobbles. Particle to matrix ratio; 65/35, CPM; 2000 - 2500						5537J	1.00	2000	.010		
34.87-	100	4280	Pebble Conglomerate poorly sorted, rounded granitic						5538J	1.00	3000	.006		

DATE Jan 16/77 LOGGED BY GG Gordon Gibson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT-2		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	% U ₃ O ₈		
			and volcanic rock fragments ranging up to 7cm in size within a sand matrix. Particle to matrix ratio; 55/45, CPM; 1500 - 220									.008		
35.87														
35.87-36.87	100	4000	As above some sections with very coarse arkosic sand matrix, CPM; 2000 - 2500						5539J	1.00	3500	.008		
36.87	85	4365	As above some fragments to 10cm in size. Granitic fragments predominate, Matrix is of granitic composition and						5540J	1.00	2000	.006		
37.87			fairly coarse, CPM; 2000 - 3000											
37.87-	85	3150	As above slightly higher ratio of basaltic and tuffaceous fragments to granitic fragments - Particle to matrix ratio						5541J	1.00	2500	.008		
38.87			50/50, CPM; 2500 - 3500											
38.87-39.87	90	3990	As above coarse matrix of granitic composition CPM; 2700 - 3500						5542J	1.00	2500	.007		
39.87-40.87	70	3050	As above granitic fragments to 10cm, coarse granular matrix CPM; 39.87 - 40.64 2500 40.64 - 40.87 4000-4500						5543J	1.00	3000	.012		
40.87-	90	3980	Pebble Conglomerate poorly sorted, rounded to subangular granitic and volcanic rock fragments ranging from 1mm to 8cm in size within a coarse arkosic sand matrix CPM; 2200 - 3500						5544J	1.00	3000	.012		
41.87														
41.87-42.87	85	3710	As above some narrow sandy sections @ 42.67 - 42.87; some granitic fragments to 15cm CPM; 3000						5545J	1.00	3000	.013		
42.87-43.87	100	5140	As above some granitic fragments to 20cm CPM; 2700-3500						5546J	1.00	2500	.013		
43.87-44.87	95	4730	As above particle to matrix ratio; 40/60 CPM; 3500 - 4500						5547J	1.00	3500	.014		
44.87-	100	4980	As above; CPM; 2500 - 300						5548J	1.00	3000	.012		
45.87														

DATE Jan 16/77

LOGGED BY

GG Gordon Gibson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 4 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	% U ₃ O ₈		
45.87- 46.87	100	4580	As above; CPM; 3000 - 4000						5549J	1.00	4000	.023		
46.87- 47.87	95	4240	As above; one 20cm sandy section, particle to matrix ratio; 35/65, CPM; 3500 - 4500						5550J	1.00	4000	.029		
47.87- 48.87	95	5310	As above; CPM; 3500 - 4000						5551J	1.00	4500	.030		
48.87- 49.87	95	4880	As above some fragments to 10cm, particle to matrix ratio; 45/55, CPM; 2000 - 3500						5552J	1.00	4000	.029		
49.87- 50.87	90	3880	As above @ 50.36 Narrow (1mm) coal parting CPM; 3000 - 4000						5553J	1.00	4000	.030		
50.87- 51.87	80	3460	As above; @51.30-51.50 Coarse sandstone level CPM; 3500						5554J	1.00	4000	.033		
51.87-	45	1915	<u>Pebble Conglomerate</u> (as above) @ 51.90 - 52.87 sandstone; Arkosic, some fragments to						5555J	1.00	2500	.028		
52.87			1cm in size. Rare narrow coal partings. CPM; 3000 - 4000											
52.87-	100	4060	As above @ 53.50 - 53.70 sandstone with 1mm coal seam						5556J	1.00	6000	.045		
53.87			CPM; 52.87 - 53.65 4000 - 5000 53.65 - 53.87 6000 - 6500											
53.87- 54.87	100	4150	As above CPM; 2500 - 3500						5557J	1.00	4500	.024		
54.87- 55.87	100	4860	As above rare coal partings, particle to matrix ratio; 45/55, CPM; 2500						5558J	1.00	3000	.012		
55.87- 56.87	100	5320	As above rare granitic fragments to 10cm, rare coal seams CPM; 2500 - 3500						5559J	1.00	3000	.016		
56.87-	90	3460	As above some rock fragments to 10cm @ 57.50-57.87; sandstone level with Glauconite(?) CPM 56.87-57.20 3500						5560J	1.00	7000	.089		
57.87			57.20-57.87 4000-6000											

DATE Jan 16/77

LOGGED BY

GG Gordon Gibson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 5 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	% U ₃ O ₈		
57.87-	100	4120	As above particle to matrix ratio; 40/60 @ 58.63; 2mm Coal parting CPM; 57.87-58.37 3500-5000						5561J	1.00	9000	.029	*	
			58.37-58.58 7000-8000 58.58-58.80 10,000-18,000 58.80-58.87 6000-7000											
58.87														
58.87-59.87	100	4655	As above particle to matrix ratio; 50/50 CPM 4000-4500						5562J	1.00	5000	.028		
59.87-	100	4805	As above @ 60.63; 1mm coal parting @60.63-60.87; sandstone; coarse, poorly sorted						5563J	1.00	4500	.025		
60.87			CPM; 4000 - 4500											
60.87-	100	4590	Sandstone poorly sorted, coarse, granitic composition some coal partings.						5564J	1.00	4000	.020		
			@60.95-61.87; cobble conglomerate; predominantly rounded granitic fragments ranging up to 15cm in a coarse sand matrix CPM; 3500 - 4500											
61.87														
61.87-		5145	Pebble Conglomerate poorly sorted, granitic rock fragments up to 3cm in size within a coarse sandy matrix,						5565J	1.00	6000	.028	*	
			particle to matrix ratio; 25/75 @ 62.60-62.80; Gneissic fragments to 12cm. CPM; 61.87-62.60 5000 - 5500											
62.87			62.60 - 62.87 7000											
62.87-	100	4830	Boulder Conglomerate very poorly sorted, granitic fragments up to 20cm in a matrix of pebble sized fragments						5566J	1.00	8500	.044		
			and coarse arkosic sand, CPM; 62.87-63.20 7000-8000 63.20-63.87 4500-6000											
63.87														
63.87-	100	2980	Pebble Conglomerate granitic fragments to 5cm in a coarse arkosic sand matrix, rare coal seams						5567J	1.00	8000	.028	*	

DATE Jan 16/77

LOGGED BY

GG Gordon Gibson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 6 of 6		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 2		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	% _{30g} U _{30g}		
			@64.10 - 64.70; predominantly decomposed boulders of gneissic basement rock with coarse arkosic sandstone between @64.70 - 64.87; Arkosic sandstone; coarse, poorly sorted, with a 1cm coal seam CPM; 63.87-64.70 5000											
64.87			64.70-64.87 12,000-15,000											
64.87-65.87	100	5350	Valhalla Granite Medium grained, homogenous, leucocratic CPM; 2000 - 2500						5568J	1.00	3000	.009		
65.87-66.87	100	7410	As above foliated and aplitic phases common, chloritic alteration on fracture surfaces CPM; 1500 - 2000						5569J	1.00	1500	.002		
66.87-67.87	100		As above CPM; 1500											
67.87-68.87	100		As above nearly fresh basement rock CPM; 1500											
68.87-69.87	100		As above fresh basement CPM; 1000 - 1500											
69.87-70.09	100		As above fresh basement CPM 1000 - 1500											
			EOH 70.09 Meters											
			Background TV-1 1000-1500 CPM Casing Left in Hole											

DATE Jan. 16/77

LOGGED BY

GG Gindon Gibson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed Jan. 22/77		Core Size HQ		Property TYEE - HYDRAULIC			Project No 61		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 3		
Lat. 100+50N		Elev. 1264m		Dip -90°		Lat. 10047.66N		Elev. 1265.10		Dip -90°		Hole No.		
Dep. 92+50E		Depth 66.45m		Bearing		Dep. 9251.53E		Depth 66.45m		Bearing -		NT - 3		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	%U ₃₀₈		
0			Casing											
3.66	0		Tricone											
15.24	0		Muddy boulder conglomerate boulder up to 18cm in Dia., matrix of brown clay rich mud and rock fragments.											
15.24-	85		Fragments and boulders are amygdaloidal basalt (plateau basalts), granitic and gneissic. Fragments are angular											
26.21			to sub rounded ranging in size from 1mm to 3.5cm. First 5 meters poor recovery -60% 2000 CPM.											
26.21-	80		As above: Less boulder (-2% of rock) muddy matrix with sub-angular rock fragments 2000 CPM											
32.31-	70		Boulder Conglomerate 2000 CPM											
33.30-	60		Boulders consist of grey tuff and weather fine grained granitic rock. Size 1-8cm in dia. 1700 CPM											
34.30			Rounded boulders and pebbles.											
34.30-	35	1140	As above: Less boulders, mainly 1-4cm sizes						5570J	1.00	2000	.009		
35.30-	50	2140	As above: 15cm section of muddy congl. poor recovery.						5571J	1.00	2000	.010		
36.30-	95	4120	As above:						5572J	1.00	2500	.009		
37.30-	30	405	As above: poor recovery						5573J	1.00	4000	.010		
38.30-	20	620	Pebble Conglomerate: (poorly sorted) with a arkosic matrix, coarse grained						5574 J	1.00	2000	.013		
39.30-	10	310	Pebbles (conglomerate) only recovered pebbles: grey tuff, basaltic greenish andesitic, and granitic pebbles						5575J	1.00	2500	.011		

DATE Jan. 24/77

LOGGED BY

BBH & WN

Brian Hughes
Wellington

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 3		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 3		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	%U ₀		
40.30			1.5cm to 5cm in size									38		
40.30-41.30	<10	350	As above: a gneissic pebble noted well rounded pebbles						5576J	1.00	2000	.004		
41.30-42.30	<10	320	As above: very little if any matrix but pebble are radio-active						5577J	1.00	4000	.082		
42.30-43.30	20	520	As above: majority tuffaceous pebbles						5578J	1.00	4500	.083		
43.30-44.30	10	330	As above:						5579J	1.00	4000	.069		
44.30-45.30	15	430	As above:						5580J	1.00	3500	.057		
45.30-46.30	<10	240	As above:						5581J	1.00	3000	.037		
46.30-47.30	<10	230	As above:						5582J	1.00	4000	.043		
47.30-48.30	20	200	First half of section as above (to 47.85) second half better recovery and composed of highly weathered granitic pebbles in a matrix of decomposed granitic fragments, arkusic.						5583J	1.00	2000	.077		y
48.30-49.30	75	3460	Pebble Conglomerate with a arkosic matrix (very angular) pebbles of highly decomposed granitic and greenish andesitic rocks. White to blue clay layer also common						5584J	1.00	6000	.021		
49.30-50.30	70	2750	As above: minor clay						5585J	1.00	3000	.016		
50.30-51.30	100	3910	As above: several less weathered granitic pebbles present						5586J	1.00	3000	.013		
51.30-52.30	45	1940	As above: pebbles of tuff and andesitic rocks present 2300 CPM						5587J	1.00	2000	.011		

DATE Jan 24/77

LOGGED BY BBH WN

Bob Hughes
W. Nelson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 3	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 3	
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.			
52.30-53.30	20		As above: bluish clay area 2500 CPM										
53.30-54.30	100		As above: highly decomposed pebbles, clay areas and thin seams (3 - 5mm) throughout section. 2300 CPM										
54.30-55.30	70		As above: pebbles of tuff less weathered greenish 2000 CPM										
55.30-56.30	100		As above: some larger less weathered granitic rocks also (5 - 7 cm) 2100 CPM										
56.30-57.30			As above 2500 CPM										
57.30-58.30	50		As above: greenish andesitic pebbles present quartz pebbles also greenish in colour 2000 CPM										
58.30-	90		Change in core colour from white to dark grey clay rich arkosic wacke with some pebbles, derived directly from decomposed granitic and gneissic rock fragments. Minor tuffaceous pebbles, well rounded, pale green in colour										
59.30			2300 CPM										
59.30-60.30	65		As above: abundant interstitial clay 2000 CPM										
60.30-61.30	45		As above: gneissic to granitic pebbles poor recovery 2000 CPM										
61.30-62.30	55		As above: few gneissic pebbles poor recovery 2100 CPM										
62.30-63.30			Basement: gneissic rock Monashee 2000 CPM										
63.30-			High grade gneisses, granitic in place, also pegmatitic at 66.20 at 64.31 a 10cm section of altered mafic rich rock. Fresh rock. 2000 CPM										
66.45			EOH 66.45 Back Ground TV-1 1500 - 2000 CPM										

DATE Jan 24/77

LOGGED BY BBH & WN

Paul Hughes
W. J. McDonnell

NORANDA EXPLORATION COMPANY, LIMITED

Coliared		Completed Jan. 28/77		Core Size HQ		Property 61 TYEE-HYDRAULIC			Project No 61		NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 4	
Lat. 100+50N		Elev. -1264m		Dip -90°		Lat. 100+45.88N		Elev. 1264.57		Dip -90°		Hole No. NT-4	
Dep. 94+00E		Depth 66.45mc		Bearing		Dep. 93+98.50E		Depth 66.45m		Bearing -			
Footage	Rec'y	Dried Weight (g)	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	%U ₃ O ₈				
0			Casing										
3.66			Tricone										
3.66-15.24			Muddy pebble conglomerate well rounded pebbles up to 3cm in dia. Polymictic brownish colour 1800 CPM										
15.24-16.76	100		Grey Clay: Grey clay with minor sand grains near contacts. Greenish colour toward last 10cm of section 1800 CPM										
16.76-18.29	100		Muddy pebble conglomerate: pebbles as before up to 3cm dia., gneissic and (basaltic) volcanic 1800 CPM										
18.29-20.12	100		Muddy boulder conglomerate boulders up to 20cm in dia. granitic breccia, basaltic minor gneissic boulders and pebbles (same as above but with boulders added. 2000 CPM)										
20.12-23.75	100		As above:			5588J	1.00	1500	.001				
23.75-24.75	15	811	No core recovered						-				
24.75-25.75	0		Gneissic pebbles recovered			5589J	1.00	1500	.001				
25.75-26.75	5	50	Pebble conglomerate gneissic and basaltic plus others? in a coarse arkosic sand matrix. Grey colour			5590J	1.00	1500	.003				
26.75-27.75	30	1328	As above: plus granitic pebbles minor matrix recovered.			5591J	1.00	2000	.004				
27.75-28.75	15	774	As above: <5% matrix recovered.			5592J	1.00	1800	.003				
28.75-29.75	5	85	As above:			5593J	1.00	2000	.014				
29.75-30.75	20	805	Sandstone: locally clay rich. Arkosic sandstone.			5594J	1.00	3000	.011				
30.75-31.75	70	2884											

DATE Jan. 29/77

LOGGED BY BBH & WN

Bob Hughes
W. J. O'Connell

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed	Core Size	Property			Project No		NTS No.	
FIELD COORDINATES				SURVEYED COORDINATES					Sheet 2 of 4	
Lat.		Elev.	Dip	Lat.		Elev.	Dip	Hole No. NT - 4		
Dep.		Depth	Bearing	Dep.		Depth	Bearing			
Footage	Rec'y	Dried Weight (g)	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	% U ₃ O ₈	
31.75-32.75	55	2145	Pebble conglomerate: As before, coarse arkosic matrix.			5595J	1.00	2000	.007	
32.75-33.75	50	1908	As above: Pebble up to 5cm in dia.			5596J	1.00	2500	.010	
33.75-34.75	70	3409	As above: minor basaltic pebbles dominantly granitic to gneissic			5597J	1.00	3500	.019	X
34.75-35.75	40	959	As above: fragments of black mud (coaly). finer matrix			5598J	1.00	4500	.023	
35.75-36.75	25	837	Mainly gneissic pebbles and boulders.			5599J	1.00	2000	.004	
36.75-37.75	30	1412	As above: mainly gneissic boulders and pebbles.			5600J	1.00	2000	.007	
37.75-38.75	40	1458	As above: mainly pebbles minor basaltic pebbles			5601J	1.00	1800	.004	
38.75-39.75	25	1531	As above: <5% matrix of dark arkosic sand.			5602J	1.00	2000	.005	
39.75-40.75	35	1511	As above: pebbles			5603J	1.00	2000	.002	
40.75-41.75	20	613	Pebbles and boulders mainly gneissic, minor basaltic (<5%) very little, if any in places, matrix.			5604J	1.00	1500	.001	
41.75-42.75	20	822	As above:			5605J	1.00	2000	.003	
42.75-43.75	20	1037	As above: one cm basaltic boulder intersected.			5606J	1.00	1800	.001	
43.75-44.75	40	2334	As above:			5607J	1.00	2000	.002	
44.75-45.75	40	2544	As above: A 30cm section of sand from rods cored at beginning of shift. Settled from mud in rods?			5608J	1.00	2000	.003	
45.75-46.75	35	1035	As above:			5609J	1.00	2500	.006	

DATE Jan 29/77

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BBH & WN

Bob Hughes
W. J. Nelson

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No			NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 4		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 4		
Footage	Rec'y	Dried Weight (g)	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	ZU 08		
46.75-47.75	65	3223	As above: with arkosic sandy matrix some rhyolitic fragments.						5610J	1.00	2000	.005		
47.75-48.75	60	2189	As above: sandy matrix with boulders up to 8cm in dia. some clay areas. Rhyolitic pebbles also common.						5611J	1.00	2500	.006		
48.75-49.75	60	2872	As above: sandy arkosic matrix minor clay rich area. Gneissic boulders common.						5612J	1.00	2500	.009		
49.75-50.75	40	2199	As above:						5613J	1.00	3000	.013		
50.75-51.75	90	4137	Boulder and pebble conglomerate with a dark grey to black sandy matrix.						5614J	1.00	4000	.012		
51.75-52.75	70	3403	H ₂ S smell as above: 1% Marcasite cementing grains together.						5615J	1.00	6500	.054		
52.75-53.75	80	4166	As above: first 30cm of section has quite high marcasite: Content: -20% matrix of coarse arkosic sand.						5616J	1.00	5500	.020		
53.75-54.75	95	5456	Coarse arkosic mainly agular fragments.						5617J	1.00	3000	.012		
54.75-55.75	60	2894	Finer grain arkosic 55.0 - 55.75 limonite fragments. 1-2 cm in clayey matrix.						5618J	1.00	2000	.011		
55.75-56.75	20	1266	Limonitic fragments as before.						5619J	1.00	2000	.011		
56.75-57.75	70	2997	Limonitic fragments in arkosic matrix 57.60 - 57.75 gneiss boulder.						5620J	1.00	2000	.001		
57.75-58.75	100	5627	Gneissic boulders separated by greenish arkosic conglomerate						5621J	1.00	1500	.001		
58.75-59.75	100	5156	Gneissic boulders and pebbles matrix appears to be crushed rock and greenish clay.						5622J	1.00	1500	.001		
59.75-62.50	90		Monashee gneiss. Mostly soft and decomposed 2000 CPM											
62.50-64.50	90		Decomposed gneiss - olive green color 1800 CPM											

DATE Jan. 29 - 30/77

LOGGED BY BBH & WN

Paul Hughes
Neil T. Donohue

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size HQ		Property Tye Hydraulic			Project No 61		NTS No. 82E			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 4		
Lat.		Elev.		Dip Vertical		Lat. 10099.11N		Elev. 1270.01		Dip Vertical		Hole No.		
Dep.		Depth		Bearing		Dep. 9300.27 E		Depth 75.29 M		Bearing		NT - 5		
Footage	Rec'y	Dried Weight (g)	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	U308%		
0 15.24	0		Tricone bit. Casing to 3.66m						Background 1500					
15.24- 27.43	100		<u>Glacial Till</u> granitic and basaltic pebbles											
27.43- 28.50	100	7547	Glacial Till to 27.63 27.63 - 28.50 pebble conglom. most pebbles 2-5mm. Greenish clay matrix						5623J	1.07	1500	<.001		
28.50- 29.50	100	6895	Same: one basalt boulder 40cm dia.						5624J	1.00	1500	<.001		
29.50- 30.50	100	6571	<u>Pebble Conglomerate</u> pebbles 5mm - 5cm quartz-granite-basalt						5625J	1.00	1500	<.001		
30.50- 31.50	100	4480	Pebble Conglomerate						5626J	1.00	2000	.005		
31.50- 32.50	100	5111	Pebble Conglomerate coal and tar like material near 32.00 Coal 3000 cpm Tar 2000 cpm. = background						5627J	1.00	2500	.010		
32.50- 33.50	100	4411	Pebble Conglomerate & gray mud few coal fragments						5628J	1.00	2000	.005		
33.50- 34.50	100	5390	Pebble Conglomerate most pebbles kaolinized granitic rock						5629J	1.00	2000	.006		
34.50- 35.50	100	5050	34.50 - 34.80 Pebble Conglomerate sandy matrix, fragments of coal 34.80 - 35.50 Sand						5630J	1.00	3000	.013		
35.50- 36.50	95	3290	Pebble Conglomerate Arkosic Matrix						5631J	1.00	2000	.019		
36.50- 37.50	65	3120	Same						5632J	1.00	2000	.007		
37.50- 38.50	100	4888	Same						5633J	1.00	2000	.005		
38.50- 39.50	100	2198	<u>Pebbles</u> up to 5cm - mainly kaolinized granitic. Arkosic matrix + 25% clay						5634J	1.00	2500	.005		
39.50- 40.50	100	4995	Pebbles mainly granitic matrix + 10% clay						5635	1.00	2500	.007		

DATE Feb. 5/77

LOGGED BY W. I. N.

W. Nelson P. Eng.

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 4	
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 5	
Footage	Rec'y	Dried Weight (g)	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	U308%				
40.50-41.50	100	5920	Same Coal fragments near 40.80 - 40.90			5636J	1.00	3500	.022				
41.50-42.50	100	5510	<u>Pebble Conglomerate</u> as before			5637J	1.00	4500	.017				
42.50-43.50	100	5325	Same - darker gray matrix possibly some Marcasite			5638J	1.00	4500	.021				
43.50-44.50	100	5850	Same fragments of coal 44.40 - 44.50			5639J	1.00	3000	.018				
44.50-45.50	100	5260	Same - more sandy fragments of coal 45.30			5640J	1.00	5000	.046				
45.50-46.50	100	4775	Same			5641J	1.00	4000	.022				
46.50	100	5550	Pebble Conglomerate pebbles mostly less than 1 cm - granitic - few fragments of coal. Matrix about equal			5642J	1.00	4500	.019				
47.50			sand and clay.										
47.50-48.50	100	6245	Pebble Conglomerate - Arkosic			5643J	1.00	4000	.015				
48.50-49.50	100	7005	Same			5644J	1.00	5000	.020				
49.50-50.50	100	4632	Same			5645J	1.00	7500	.027				
50.50-51.50	85	4508	Same			5646J	1.00	8000	.038				
51.50-52.50	85	4396	Pebble Conglomerate. Mainly arkosic, granitic pebbles + few green volcanic			5647J	1.00	3000	.015				
52.50-53.50	90	4494	Same			5648J	1.00	7000	.029				
53.50-54.50	95	5490	Conglomerate arkosic granite boulders in clay matrix			5649J	1.00	4000	.015				

DATE Feb. 5/77

LOGGED BY W.I.N.

W.I.N.

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No			NTS No.		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 3 of 4		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 5		
Footage	Rec'y	Dried Weight (g)	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	U308%		
54.50-55.50	100	5550	Pebble Conglomerate arkosic matrix						5650J	1.00	3500	.022		
55.50-56.50	100	5151	Same						5651J	1.00	2500	.011		
56.50-57.50	100	5205	Same						5652J	1.00	3500	.015		
57.50-58.50	100	6740	Same - seems kaolinized						5653J	1.00	5500	.019		
58.50-59.50	100	5130	Same						5654J	1.00	4000	.021		
59.50-60.50	100	5639	Same 5% greenish clay						5655J	1.00	4000	.019		
60.50-61.50	100	5162	Same coal fragment at 61.25						5656J	1.00	5000	.029		
61.50-62.50	100	6028	Same coal fragment at 61.60						5657J	1.00	4000	.026		
62.50-63.50	100	5232	Same Arkosic matrix						5658J	1.00	5500	.031		
63.50-64.50	100	5100	Same 5% pebbles altered to green clay						5659J	1.00	6000	.039		
64.50-65.50	100	5435	Same + green pebbles coal fragment at 65.2						5660J	1.00	20000	.088		
65.50-66.50	100	5116	Same pebble at 66.35 looks like garnierite						5661J	1.00	10000	.051		
66.50-67.50	95	3873	Pebble conglomerate arkosic matrix. Green stain on some pebbles looks like copper or nickel						5662J	1.00	12000	.067		
67.50-68.50	100	4175	Dark gray arkosic + coal fragments						5663J	1.00	25000	.179		
68.50-69.50	100	5274	Conglomerate dark gray clay matrix pebbles mainly granitic and strongly kaolinized possible malachite at 69.10						5664J	1.00	25000	.190		

DATE Feb. 5/77

LOGGED BY

W.I.N.

W. J. Nelson, Eng.

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed	Core Size	Property	Project No	NTS No.				
		Feb. 10/77	H0	TYFF - HYDRAULIC	61 - J	82E/14				
FIELD COORDINATES				SURVEYED COORDINATES						
Lat.		Elev.	Dip	Lat.		Elev.	Dip			
101+00N			-90°	10100.7N		1268.72	-90°			
Dep.		Depth	Bearing	Dep.		Depth	Bearing			
92+50E		72.54		9250.71E		72.54				
Footage	Rec'y	Dried Weight (g)	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1box	TV-1bag	U308%
0 - 15.24	0		Casing - 0 - 3.66 Tricone bit to 15.24							
15.24-25.91	100		Glacial till; granitic and basaltic pebbles in brown clay					1000 -1500		
25.91-29.00	100		Glacial till; sandy matrix with clay lenses one 0.3m basalt boulder					1000 -1500		
29.00-30.00	100	5355	Glacial till; sandy-clay matrix one 0.2m basalt boulder			J5667	1m	1500 -2000	1200	.002
30.00-31.00	100	5845	Semi-consolidated pebble conglomerate; sandy limonite - stained matrix; 25cm basalt boulder			J5668	1m	1500 -2000	1600	.002
31.00-32.00	100	5120	Semi-consolidated pebble conglomerate; greenish clay matrix with minor limonite.			J5669	1m	1500 -2000	1500	.005
32.00-33.00	100	5160	Pebble conglomerate; increase in clay matrix intense limonite stain 32.7 -33.00m			J5670	1m	1500 -2000	2000	.003
33.00-34.00	100	5275	Pebble conglomerate; limonite stain 33.00 - 34.3m; granitic and tuffaceous boulders			J5671	1m	1500 -2000	2000	.003
34.00-35.00	95	5690	Pebble conglomerate; no limonite stain; granitic - tuffaceous semiconsolidated pebbles and matrix			J5672	1m	1500 -2000	2200	.004
35.00-36.00	55	2010	Pebble conglomerate - same			J5673	1m	1500 -2000	1900	.004
36.00-37.00	90	5465	Pebble conglomerate - greenish clay matrix with minor coal fragments			J5674	1m	1500 -2000	2500	.005
37.00-38.00	100	4845	Pebble conglomerate; white-green quartzose sandy matrix with greenish clay lenses			J5675	1m	2000 -2500	2600	.006
38.00-39.00	100	5475	Pebble conglomerate; same			J5676		2000 -2500	3200	.011
39.00-40.00	90	3660	Pebble conglomerate; same			J5677		2500 -3000	3100	.012
40.00-41.00	3	290	Pebble conglomerate; greenish clay matrix; less sand; only 4cm core between 39.9 - 41.45			J5678		2500 -3000	2000	.055

DATE _____

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PM & WN

W. Nelson P. Eng.
P. M. M. M. M.

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 2 of 4		
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 6		
Footage	Rec'y	Dried Weight (g)	Description				% Sulp.	Est. Grade	Sample No.	Lt.	Tv-1box	Tv-1bag	Max. Reading	U308%
41.00-42.00	25	610	Pebble conglomerate; grey-green sandy-clay matrix; whitish sandy pebble; minor coal.						J5679	1.00	2000 -3000	2000		.016
42.00-43.00	100	4215	Same						J5680	1.00	2500 -3000	3000		.023
43.00-44.00	100	4775	43.0 - 43.7 pebble conglomerate sandy matrix - mostly white 43.7-44.0 brown sand with minor coal						J5681	1.00	8000 -10,000	9000		.071
44.00-45.00	90	3850	Sand with minor coal						J5682	1.00	8000 -10,000	15000		.080
45.00-46.00	95	4580	Pebble conglomerate 45.0 - 45.3 sandy matrix and minor coal 45.3 -46.0 clay matrix mostly dark grey						J5683	1.00	3000 -6000	14000		.077
46.00-47.00	80	2560	Pebble conglomerate; mainly sand-clay matrix 46.0-46.3; sandy light grey - green matrix 46.3 - 47						J5684	1.00	3000 -6000	7000	6000@ 46.3m	.054
47.00-48.00	50	2700	Pebble conglomerate light grey-green sandy-clay matrix; abundant quartz grains; no core 47.55-48.46						J5685	1.00	6000 -8000	6000	8000@ 47.5m	.051
48.00-49.00	60	2225	Pebble conglomerate; light grey clay matrix increase sand 48. - - 49.0m						J5686	1.00	4000 -8000	6000		.036
49.00-50.00	80	3560	Pebble conglomerate; light grey green matrix; increase sand abundant quartz grains						J5687	1.00	6000	5000		.021
50.00-51.00	100	6110	Pebble conglomerate; light grey green matrix; abundant sand - 51.1 -51.2m, clay lenses						J5688	1.00	3000 -6000	6000	6000@ 50.5m	.028
51.00-52.00	80	4580	Pebble conglomerate - same coal fragments @ 51.6m; no core 51.8 - 52.4m						J5689	1.00	3000 -6000	6000	6000@ 51.6m	.041
52.00-53.00	55	3670	Pebble conglomerate - same coal fragment @52.8						J5690	1.00	3500 -5000	4000	5000@ 53.0	.025
53.00-54.00	50	2170	Pebble conglomerate -same; no coal fragments 53.6-54.4m no core						J5691	1.00	3000 -4500	4000	4500@ 53.2	.026

DATE _____

LOGGED BY _____

PM & WN

W. Nelson Peng
D. M. W. Amless

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed	Core Size	Property			Project No		NTS No.				
FIELD COORDINATES				SURVEYED COORDINATES					Sheet 3 of 4				
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.	
Dep.		Depth		Bearing		Dep.		Depth		Bearing		NT - 6	
Footage	Rec'y	Dried Weight (g)	Description			% Sulp.	Est. Grade	Sample No.	Lt.	TV-1box	TV-1bag	Max Reading	U308%
54.00-55.00	40	1855	Pebble conglomerate; light grey-green sandy matrix; some clay lenses; abundant quartz grains					J5692	1.00	2500-3000	2500		.013
55.00-56.00	100	5175	Pebble conglomerate; same; increase in clay; decrease in pebbles					J5693	1.00	3000-3500	3000		.015
56.00-57.00	100	6230	Pebble conglomerate; same; no coal fragments					J5694	1.00	2500-3000	3000	3000@ 56.7m	.024
57.00-58.00	100	4825	Pebble conglomerate; light grey-green sandy matrix; some clay lenses, few large granitic pebbles					J5695	1.00	2500-4000	3000	4000@ 57.5	.015
58.00-59.00	100	3780	Pebble conglomerate; same; increase in clay matrix.					J5696	1.00	2000-3000	2500		.014
59.00-60.00	85	3660	Pebble conglomerate; same					J5697	1.00	2000-3000	2500		.011
60.00-61.00	100	4685	Pebble conglomerate; same; minor coal fragments					J5698	1.00	2000-3200	3000		.015
61.00-62.00	100	6620	Pebble conglomerate; light grey-green sandy matrix; abundant quartz pebbles and granitic coal fragments					J5699	1.00	3500-5500	4500	5500@ 61.5m	.024
62.00-63.00	80	3600	Pebble conglomerate; same with less coal fragments.					J5700	1.00	3500-4500	4000		.022
63.00-64.00	100	5650	Pebble conglomerate - same					J5701	1.00	3000-4500	3000	4500@ 63.8	.017
64.00-65.00	100	5210	Pebble conglomerate - same					J5702	1.00	2000-3000	3000		.017
65.00-66.00	100	5890	Pebble conglomerate - same with black mud; minor coal fragments					J5703	1.00	2000-3500	3000		.017
66.00-67.00	100	4910	Pebble conglomerate - less clay matrix; increase in granitic pebbles; minor coal fragments					J5704	1.00	2000-3000	3000		.015
67.00-68.00		4740	Pebble conglomerate; same increase sandy matrix and granitic pebbles					J5705	1.00	2000-2500	2000		.008
68.00-69.00	80	3710	Basement rocks; monashee - chlorite, albite epidote alteration; limonite stain					J5706	1.00	1500-2500	2000		.012

DATE _____

LOGGED BY _____

PM & WN

W. J. Nelson P. Eng.
D. M. McMillan

NORANDA EXPLORATION COMPANY, LIMITED

Collared 9Mar.-77	Completed 10Mar.77	Core Size HQ Tricone	Property Tyee- Hydraulic	Project No 61	NTS No. 82E
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat. 10149.90N	Elev. 1273.03	Dip Vertical
Dep.	Depth	Bearing	Dep. 9251.42E	Depth 78.03m	Bearing
					Sheet 1 of 1
					Hole No. R-1

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1
0-38.40			No. samples					
38.40-41.45			Light grey sand, Qtz and Feld, limonite stain.			5708J		2000
41.45-44.50			" " " " " "			5709J		2500
44.50-47.55			" " " " " "			5710J		2500
47.55-50.60			Light grey sand, Qtz and feld, limonite stain, 1% black specks			5711J		2500
50.60-53.64			Darker grey sand, Qtz and feld; 1% black specks			5712J		2200
53.64-56.69			Greenish grey sand, Qtz and feld			5713J		3000
56.69-59.74			Light grey sand, Qtz and feld, 1% black specks			5714J		3000
59.74-62.79			Grey sand, Qtz and feld, 1% marcasite			5715J		3000
62.79-65.84			Grey sand, Qtz and feld, 1/2% marcasite			5716J		2500
65.84-68.88			Grey sand Qtz and feld, 1/2% marcasite, 1% black specks			5717J		2500
68.88-71.93			Grey sand, Qtz and feld; trace of marcasite 1% black specks			5718J		2200
71.93-74.98			Grey sand, Qtz and feld, 1% marcasite			5719J		2200
74.98-78.03			Grey sand, Qtz and feld, magnetite present			5720J		2500
			Hit Bedrock 77.00m End Of Hole 78.03m					

DATE March 29, 1977

LOGGED BY W.L. Nelson

W.L. Nelson Eng

NORANDA EXPLORATION COMPANY, LIMITED

Collared 12Mar.77	Completed 13Mar.77	Core Size HQ Tricone	Property Tyee-Hydraulic	Project No 61	NTS No. 82E
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat. 10150.03N	Elev. 1272.29	Dip
Dep.	Depth 255 Feet	Bearing	Dep. 9200.19E	Depth 77.72M	Bearing
			Sheet 1 of 2		
			Hole No. R - 2		

Footage	Rec'y	Graphic Log	Description	% Sulph.	Est. Grade	Sample No.	Lt.	TV-1
0-31.09			No Sample					
31.09-34.14			Brownish grey sand, probable glacial till					1500
34.14-37.19			Same					1500
37.19-40.23			Yellow grey sand, Qtz, Felds sand					1500
40.23-43.28			Light grey; Qtz and felds sand					1800
43.28-46.33			Light grey, Qtz and felds sand, 2% black specks					2000
46.33-49.38			Light grey, Qtz and Felds sand, 1% black specks					1500
49.33-52.43			Light grey, Qtz and Felds sand, 2% coal					1500
52.43-55.47			Light grey, Qtz and Felds sand, 1% coal					2500
55.47-58.52			Light grey, Qtz and Felds sand, 1% black specks					2000
58.52-61.57			Light grey, Qtz and Felds sand, 2% black specks					1800
61.57-64.62			Light grey, Qtz and Felds sand, 5% coal					1500
64.62-67.67			Light grey, Qtz and Felds sand					1500
67.67-70.71			Light grey, Qtz and Felds sand					1800
70.71-73.76			Light grey, Qtz and Felds sand with minor limonite staining					1500

DATE March 27/77

LOGGED BY W.I. Nelson

W.I. Nelson Eng.

NORANDA EXPLORATION COMPANY, LIMITED

Collared Mar. 15/77		Completed Mar. 15/77		Core Size HQ Tricone		Property Tye-Hydraulic			Project No 61		NTS No. 82E		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 1	
Lat.		Elev.		Dip		Lat. 10150.28N		Elev. 1270.25		Dip Vertical		Hole No.	
Dep.		Depth		Bearing		Dep. 9299.39E		Depth 71.93		Bearing		R - 3	
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.		TV-1	
0-30.48			No sample										
30.48-33.53			Brownish grey sand, Qtz and Feld; rare black specks									1500	
33.53-36.58			Light grey sand, Qtz and Feld; 2% black specks									1500	
36.58-39.62			Light grey sand, Qtz and Feld; 1% black specks									2000	
39.62-42.67			Light grey sand, Qtz and Feld; 1% black specks									2000	
42.67-45.72			Light grey sand, Qtz and Feld; less than 1% black specks									2000	
45.72-48.77			Light grey sand, Qtz and Feld; 5% coal									4000	
48.77-51.82			Light grey sand, Qtz and Feld; less than 1% black specks									2500	
51.82-54.86			Light grey Qtz and Feld sand; 1% black specks									3000	
54.86-57.91			Light grey sand, Qtz and Feld; less than 1% black specks; one small marcasite grain									2500	
57.91-60.96			Light grey sand, Qtz and Feld; less than 1% black specks; minor limonite stain									2000	
60.96-64.01			Light grey sand, Qtz and Feld; less than 1% black specks									2200	
64.01-67.06			Light grey sand, Qtz and Feld; less than 1% black specks; minor limonite stain									2500	
67.06-70.10			Light grey sand, Qtz and Feld; 5% coal									5000	
70.10-71.93			Darker grey sand, Qtz and Feld; 2% black specks; magnetite present									2700	

Hit Basement at 70.4M
End of Hole 71.93M or 236 feet

DATE March 28, 1977

LOGGED BY W.I. Nelson

W.I. Nelson Perm.

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed 21Mar. 77		Core Size Tricone		Property TYEE-HYDRAULIC			Project No 61		NTS No. 82E			
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 2		
Lat.		Elev.		Dip		Lat. 10152.05N		Elev. 1274.54		Dip Vertical		Hole No.		
Dep.		Depth 263 feet		Bearing		Dep. 9348.67E		Depth 80.17m		Bearing		R4		
Footage	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	TV-1		
0-27.43			No samples											
27.43-30.48			Dark grey, fine grained sand									1500	cpm	
30.48-33.53			Same									1000	"	
33.53-36.58			Light grey, sand, minor coal									1500	"	
36.58-39.62			Light grey sand, with minor coal									1500	"	
39.62-42.67			Same									2000	"	
42.67-45.72			Same									2000	"	
45.72-48.77			Light grey sand, no coal									1800	"	
48.77-51.82			Light grey sand with a little coal									2500	"	
51.82-54.86			Light grey sand with rare coal									2200	"	
54.86-57.91			Same									2000	"	
57.91-60.96			Same									2300	"	
60.96-64.01			Same									1500	"	
64.01-67.06			Light grey sand									2000	"	
67.06-70.10			Light grey sand									2000	"	

DATE _____

LOGGED BY _____

W. Nelson P. Eng

NORANDA EXPLORATION COMPANY, LIMITED

Collared		Completed		Core Size		Property			Project No		NTS No.			
22Mar.77		Mar. 23		TRICONE		HYDRAULC-TYEE			61		82E			
FIELD COORDINATES						SURVEYED COORDINATES								
Lat.		Elev.		Dip		Lat.		Elev.		Dip		Hole No.		
						10100.61N		1268.20		Vertical		R - 5		
Dep.		Depth		Bearing		Dep.		Depth		Bearing				
		64.62M				9348.37E		64.62						
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.		TV-1		
0-			No Sample											
30.48-			Light grey sand									2000		
33.53-			Same									2500		
36.58-			Same									2500		
39.62-			Same									2500		
42.67-			Same									2000		
45.72-			Light grey sand with 1% coal									3500		
48.77-			Light grey sand									3000		
51.82-			Light grey sand with 10% coal									5000		
54.86-			Light grey sand									7500		
57.91-			Light grey sand									2000		
60.96-			Pale brown sand - probable bedrock									1500		
64.01-			Pale brown sand " "									1500		
64.62			END OF HOLE 64.62M											

DATE March 23/77

LOGGED BY W.L. Nelson

W.L. Nelson P. Eng.

NORANDA EXPLORATION COMPANY, LIMITED

Collared 24Mar 77			Completed 25Mar 77			Core Size TRICONE			Property TYEE-HYDRAULIC			Project No 61			NTS No. 82R		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 1					
Lat.		Elev.		Dip		Lat. 10100.66 N		Elev. 1271.16M		Dip Vertical		Hole No.					
Dep.		Depth		Bearing		Dep. 9397.34 E		Depth 55.17		Bearing		R - 6					
Footage	Rec'y	Graphic Log	Description						% Sulp.	Est. Grade	Sample No.	Lt.		TV-1			
0-30.48			No Sample														
30.48-33.53			<u>Light grey sand</u> , mostly quartz and feldspar, 1% black specks												1800		
33.53-36.58			Same												1500		
36.58-39.62			<u>Brownish grey sand</u> , mostly quartz and feldspar, 1% black specks												1500		
39.62-42.67			<u>Grey sandy limestone</u> and quartz with a trace of coal												1500		
42.67-45.72			<u>Grey sand</u> mostly feldspar and quartz												1500		
45.72-48.77			<u>Light grey sand</u> mostly feldspar and quartz, 1% black specks												1800		
48.77-51.82			<u>Light grey sand</u> mostly feldspar and quartz												1500		
51.82-54.86			<u>Grey to light brown sand</u> mostly felds and quartz, 2% magnetite												1500		
54.86-55.17			<u>Grey to light brown sand</u> mostly felds and quartz, 2% magnetite												1500		
			END OF HOLE -5.17 M or 181 Ft.														
			Hit rock at 50.30 meters														

DATE March 25, 1977

LOGGED BY W.L. Nelson

W.L. Nelson

NORANDA EXPLORATION COMPANY, LIMITED

Collected Mar. 26/77	Completed Mar. 27/77	Core Size HQ-Tricone	Property Tye-Hydraulic	Project No 61	NTS No. 82E
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat. 10053.20N	Elev. 1268.63	Dip Vertical
Dep.	Depth	Bearing	Dep. 9449.65E	Depth 69.80M	Bearing
					Sheet 1 of 1
					Hole No. R - 7

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1
0-30.48			No sample					
30.48-33.53			Light grey, Qtz and Felds sand, 1% black specks					1500
33.53-36.58			Probable glacial till					1500
36.58-39.62			Light grey, Qtz and Feldspar sand					1500
39.62-42.67			Light grey, Qtz and Feld sand, 1% black specks					1800
42.67-45.72			Same					1500
45.72-48.77			Light grey, Qtz and Feld sand, 2% black specks					1200
48.77-51.82			Light grey, Qtz and Feld sand, 1% black specks					2000
51.82-54.86			Same					1500
54.86-57.91			Same					1500
57.91-60.96			Light grey, Qtz and Feld sand, 1% black specks and rare pyrite					2000
60.96-64.01			Light grey, Qtz and Feld sand, 1% black specks					1500
64.01-67.06			Mainly Qtz with light brown tinge					1500
67.06-69:80			Light grey Qtz and Feld sand, 1% black specks					1500
			Hit Bedrock at 67.06 or 220 Ft. END OF HOLE 69.80 or 229 Ft.					

DATE March 27, 1977

LOGGED BY W.I. Nelson *W.I. Nelson*

NORANDA EXPLORATION COMPANY, LIMITED

Collared Mar. 28/77		Completed Mar. 29/77		Core Size HQ Tricone		Property Tye-Hydraulic			Project No 61		NTS No. 82E		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 1	
Lat.		Elev.		Dip		Lat. 10096.52		Elev. 1265.60		Dip Vertical		Hole No.	
Dep.		Depth		Bearing		Dep. 9198.82		Depth 67.06M		Bearing		R - 8	
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.		TV-1	
0-30.48			No Sample										
30.48-33.53			Light grey sand, Qtz and Feld; 2% black specks									1300	
33.53-36.58			Same									1500	
36.58-39.62			Light grey sand, Qtz and Feld									1500	
39.62-42.67			Light grey sand, Qtz and Feld; 1% black specks									2000	
42.67-45.72			" " " " " ; 2% coal									2000	
45.72-48.77			Greenish grey sand, Qtz and Feld									1500	
48.77-51.82			Light grey sand, Qtz and Feld; 1/2% pyrite									1500	
51.82-54.86			" " " " " " ; 1% black specks									1500	
54.86-57.91			" " " " " " ; trace of coal; trace of pyrite									1700	
57.91-60.96			Light grey sand, Qtz and Feld									1300	
60.96-64.01			" " " " " " ; minor limonite staining									1500	
64.01-67.06			Grey to light brown sand; limonite staining; minor magnetite									1000	
			Hit Bedrock: 62.18M or 204 Ft. End of Hole: 67.06M or 220 Ft.										

DATE March 29, 1977 LOGGED BY W. I. Nelson *W.I. Nelson P. Eng.*

NORANDA EXPLORATION COMPANY, LIMITED

Collared 29 Mar. 77		Completed 31 Mar. 77		Core Size HQ Tricone		Property Tyee-Hydraulic		Project No 61		NTS No. 82E		
FIELD COORDINATES						SURVEYED COORDINATES						
Lat.		Elev.		Dip		Lat. 10048.57		Elev. 1264.57		Dip Vertical		
Dep.		Depth 209		Bearing		Dep. 9199.76		Depth 63.70		Bearing		
Footage	Rec'y	Graphic Log	Description				% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	
0-30.48			No Sample									
30.48-33.53			Dark grey sand, probably glacial till								1500	
33.53-36.58			Light grey sand, qtz and feld; 2% black specks								1500	
36.58-39.62			Light grey sand, qtz and feld; 1% black specks								1500	
39.62-42.67			Light grey sand, qtz and feld; less than 1% black specks								1500	
42.67-45.72			Light grey sand, qtz and feld; 2% coal								1500	
45.72-48.77			Light grey sand, qtz and feld; less than 1% black specks; trace of pyrite								1500	
48.77-51.82			Light grey sand, qtz and feld; 1% black specks								1500	
51.82-54.86			Grey brown sand, qtz and feld; trace of magnetite present								1000	
54.86-57.91			Same with trace of magnetite								1000	
57.91-60.97			Same with magnetite								1200	
60.97-63.70			Same but more magnetite								1000	
			HIT BEDROCK: 57.91m or 190 Ft.									
			END OF HOLE: 63.70m or 209 Ft.									

DATE March 31, 1977

LOGGED BY W.L. Nelson *W.L. Nelson P. Eng.*

NORANDA EXPLORATION COMPANY, LIMITED

Collared <u>Apr. 1/77</u>		Completed <u>Apr. 2/77</u>		Core Size	Property <u>Type-Hydraulic</u>	Project No <u>61</u>	NTS No. <u>82E</u>			
FIELD COORDINATES					SURVEYED COORDINATES				Sheet <u>1</u> of <u>1</u>	
Lat.	Elev.	Dip	Lat. <u>9852.30N</u>	Elev. <u>1254.13</u>	Dip <u>Vertical</u>	Hole No.				
Dep.	Depth	Bearing	Dep. <u>9403.38E</u>	Depth <u>67.97</u>	Bearing	R-10				
Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.	TV-1		
0-30.48			No Sample							
30.48-33.53			Light grey qtz and feld sand; 2% Black Specks					1500		
33.53-36.58			" " " " " " ; 1% fine grained black specks					1800		
36.58-39.62			" " " " " " ; " " " " " " 1% coal					1800		
39.62-42.67			" " " " " " : 1% black specks					2300		
42.67-45.72			Light grey ztz and feld sand					2000		
45.72-48.77			Grey sand, fine grained, qtz and feld					3000		
48.77-51.82			Grey sand fine grained, qtz and feld, trace of? Sulphide					2300		
51.82-54.86			Grey sand fine grained, qtz and feld, 5% coal					2500		
54.86-57.91			Grey sand fine grained, qtz and feld					2500		
57.91-60.96			Light grey fine grained, qtz and feld; 1% fine gr. black specks, trace marcasite					2000		
60.96-64.01			Light grey fine grained, qtz and feld; 1% fine gr. black specks, 1% fine grained marcasite?					2000		
64.01-67.06			Light grey fine grained, qtz and feld; 1% fine gr. black specks; fine grained ? marcasite					1500		
67.06-67.97			Light grey to white fine grained qtz and feld sand; marcasite? present					1300		
			END OF HOLE 67.97 HIT BEDROCK: 57.91							

DATE April 3/77

LOGGED BY

W.I. Nelson *W.I. Nelson P.Eng.*

NORANDA EXPLORATION COMPANY, LIMITED

Collared Apr. 7/77		Completed Apr. 7/77		Core Size HQ-Tricone		Property Tye-Hydraulic			Project No 61J		NTS No. 82E/14		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 1	
Lat.		Elev.		Dip		Lat. 9859.98N		Elev. 1250.88		Dip Vertical		Hole No.	
Dep.		Depth		Bearing		Dep. 9249.93E		Depth 31.70		Bearing		R-13	
Footage	Rec'y	Graphic Log	Description					% Sulp.	Est. Grade	Sample No.	Lt.	TV-1	
0-3.05			No Sample										
3.05-6.10			Green-grey sandy mud; overburden									900	
6.10-9.14			" " " " "									900	
9.14-12.19			" " " " "									1000	
12.19-15.24			Grey-green sand; mainly quartz and feldspar ; same rock fragments									1200	
15.24-18.29			Light grey-green sand; mainly quartz and feldspar ; rock type change-basement conglomerate mix									1400	
18.29-21.32			Light grey-brown sand; mainly quartz and feldspar ; decreased in dark minerals (2%); basement									1000	
21.32-24.38			Same									1000	
24.38-27.43			Same									1000	
27.43-30.48			Same									1000	
30.48-31.70			Same									1000	
			End of Hole: 31.70 - 104 Ft.										
			Basement Estimate: 16.25 - 105 Ft.										

DATE April 8/77

LOGGED BY P. M. McAndless

P M McAndless

NORANDA EXPLORATION COMPANY, LIMITED

Collared Apr. 12/77		Completed Apr. 13/77		Core Size HQ-TRICONE		Property TYEE-HYDRAULIC			Project No 61		NTS No. 82E -		
FIELD COORDINATES						SURVEYED COORDINATES						Sheet 1 of 2	
Lat.		Elev.		Dip		Lat. 9890.05N		Elev. 1249.38		Dip Vertical		Hole No.	
Dep.		Depth		Bearing		Dep. 9407.32E		Depth		Bearing		R - 14	
Footage	Rec'y	Graphic Log	1.52 M Casing		Description	% Sulp.	Est. Grade	Sample No.	Lt.				TV-1
0-3.05					No sample								
3.05-6.10					Brownish Grey Glacial Till								1500
6.10-9.14					Grey sand, Qtz. and Feld, 15% Black Specks								1200
9.14-12.19					" " " " " , 10% Black Specks								1300
12.19-15.24					Same								1200
15.24-18.29					Same but finer grained								1200
18.29-21.32					Grey sand, Qtz. and Feld, 10% Black Specks								1200
21.32-24.38					Light grey sand, Qtz. and Feld, 10% Black Specks								1500
24.38-27.43					" " " " " " , 5% Black Specks								1500
27.43-30.48					Same								1200
30.48-33.53					Same								1500
33.53-36.58					Light greenish grey, Qtz and Felds, 2% Black Specks								1500
36.58-39.62					Same								1500
39.62-42.67					Light grey sand, Qtz. and Feld, 2% Black Specks								1600
42.67-45.72					" " " " " " , 2% coal, 1% very fine grained sulphide								2000

DATE April 14, 1977 LOGGED BY W.I. Nelson *W.I. Nelson P. Eng.*

NORANDA EXPLORATION COMPANY, LIMITED

Collared Apr. 16/77	Completed Apr. 16/77	Core Size HQ-TRICONE	Property TYEE-HYDRAULIC	Project No 61	NTS No. 82E
FIELD COORDINATES			SURVEYED COORDINATES		
Lat.	Elev.	Dip	Lat. 9800.80N	Elev. 1251.32	Dip Vertical
Dep.	Depth 169 feet	Bearing	Dep. 9449.18E	Depth 51.51M	Bearing
					Sheet 1 of 1
					Hole No. R - 17

Footage	Rec'y	Graphic Log	Description	% Sulp.	Est. Grade	Sample No.	Lt.			TV-1
0-9.14			No sample							
9.14-12.19			Gray-green glacial till							1500
12.19-15.24			Same							1500
15.24-18.29			Same							1300
18.29-21.32			Grey probable glacial till, 1% Black Specks							1500
21.32-24.38			Grey med. grained, Qtz. and Feld, 2% Black Specks							2000
24.38-27.43			Light grey fine grained, Qtz. and Feld, 1% Black Specks							2800
27.43-30.48			Light grey med. grained, Qtz. and Feld, 1% Black Specks							2000
30.48-33.53			" " " " " " " " " " and coal?							3000
33.53-36.58			" " " " " " " " " " and 5% coal							2000
36.58-39.62			Light grey coarse grained, Qtz. and Feld, 1% Black Specks, trace of pyrite							2000
39.62-42.67			Light grey med. grained, Qtz. and Feld, 1% Black Specks, 1% Qtz coated with limonite							2500
42.67-45.72			Grey med. grained, Qtz. and Feld, trace pyrite, 1% Black Specks							3000
45.72-48.77			Light grey fine grained, Qtz. and Feld, 1% Black Specks, 5% coal							2300
48.77-51.51			Grey green med. grained, Qtz. and Feld, trace of Black Specks							2000

END OF HOLE: 51.51M BEDROCK: 49.68M

DATE April 16, 1977

LOGGED BY W.I. Nelson

W.I. Nelson P. Eng.

APPENDIX 5

RADIOMETRIC LOGS

6288

END AT .6

[Signature]

PROPERTY 61
 HOLE No. R-13
 DATE 6/4/77
 CORE SIZE HQ 1RL
 INSTRUMENT GR 410
 FUNCTION TC
 100% = 1600
 CP.S. MV
 LOGGED BY *[Signature]*

RADIO METRIC LOG

420

430

440



R-13; HQ; TC; 1600; 301V
APRIL 6/77

END AT 36.2

35

630

30

25

640

20

15

650

10

o ADJUST

5

RADIO METRIC LOG

PROPERTY 61
 HOLE No. R-12 LOCATION _____
 DATE 5/4/77 DEPTH 36.2 m
 CORE SIZE HQ TRI RODS HQ
 INSTRUMENT GR 410 PROBE 1.5" EXP
 FUNCTION TC RANGE 16
 100% = 1600 C.P.S.
 LOGGED BY MV

660

J. J. Walker

62.88

6288

RADIO METRIC LOG 2070

PROPERTY TYPE R-16

HOLE NO. 2.16

DATE 15 April 77

DEPTH 30.6 m

CORE SIZE HQ TR1

RODS HQ

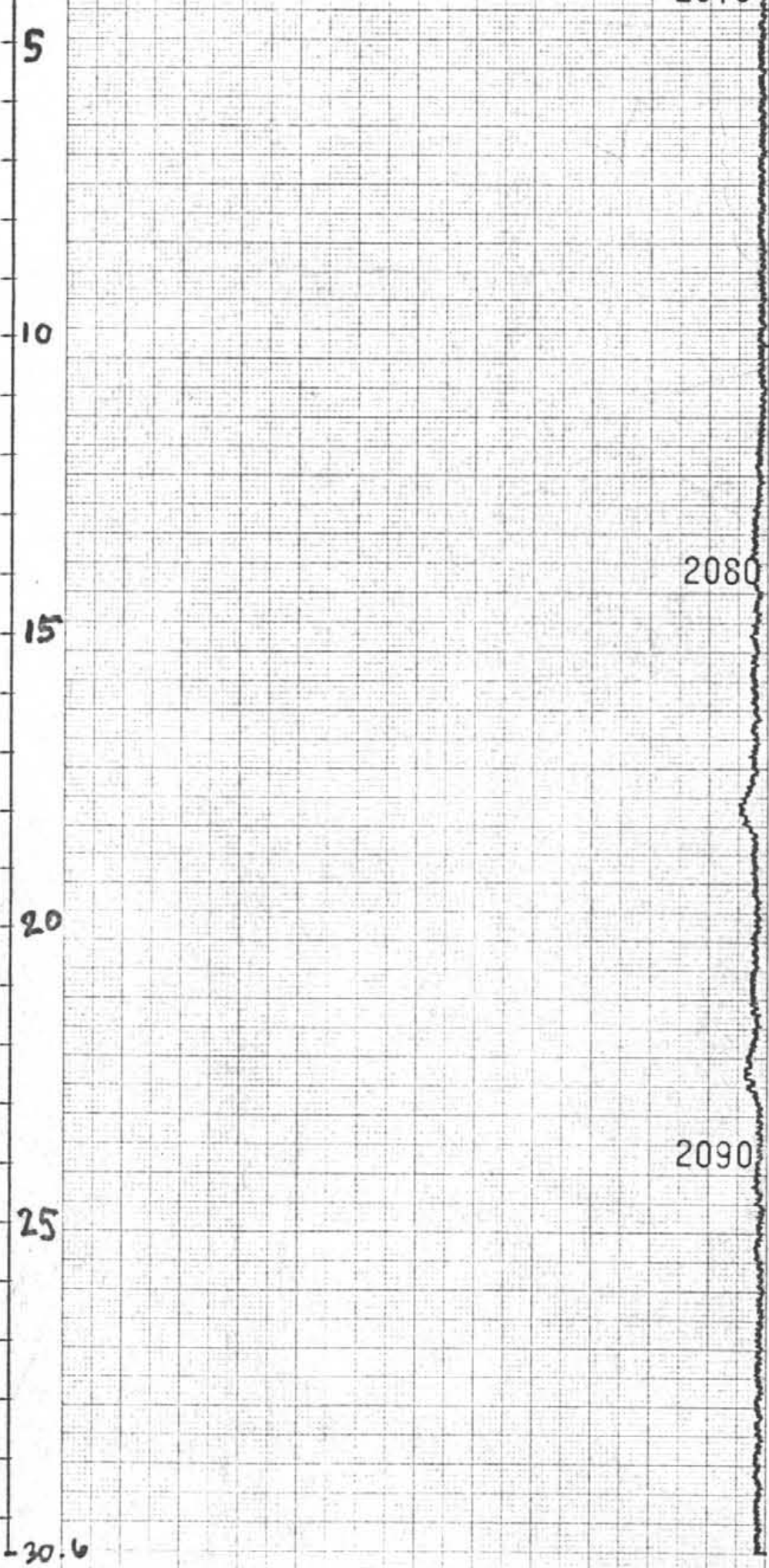
INSTRUMENT GR410

FUNCTION TC

100% = 1600 C.P.S.

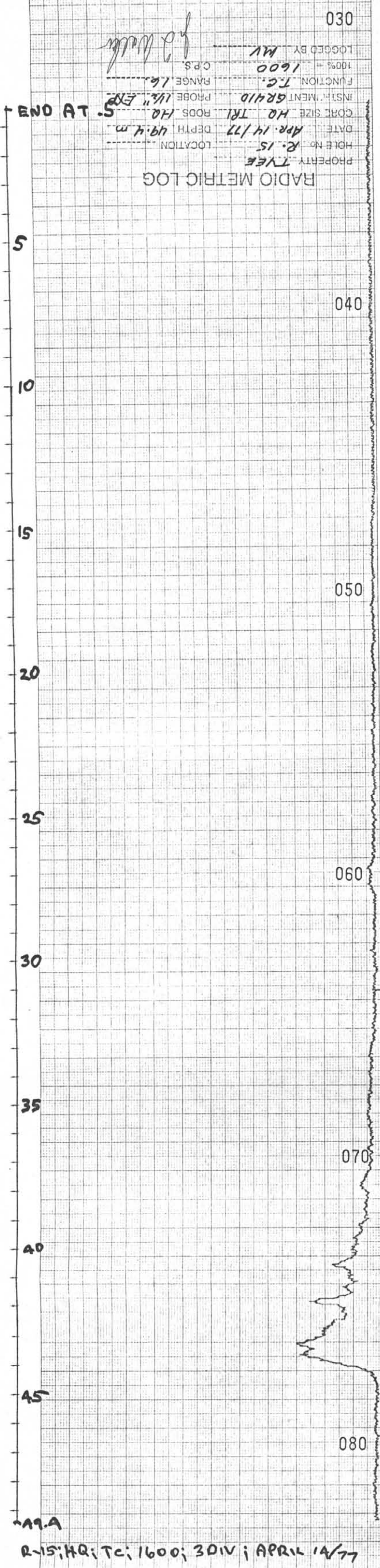
LOGGED BY MW

END AT 7.15 LTR DNB



R-16; HQ; TC; 1600; 30W; APRIL 15/77

6288



PROPERTY TYPE
 HOLE No. R. 15
 LOCATION
 DATE Apr. 14/77
 DEPTH 49.4 m
 CORE SIZE HQ TRI
 RDS HQ
 INSTRUMENT GR410
 PROBE 1/4" EXP
 FUNCTION TC
 RANGE 16
 100% = 1600
 C.P.S.
 LOGGED BY MV
 J. J. Walker

RADIO METRIC LOG

49.A
 R-15; HQ; TC; 1600; 30 DIV; APRIL 14/77

HEWLETT-PACKARD 9280-0278

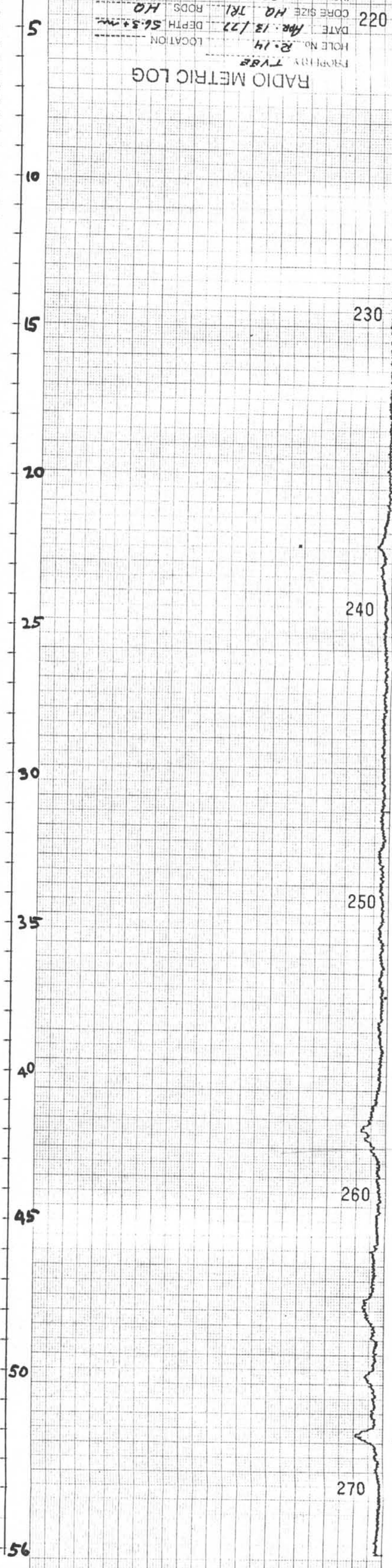
8879

END AT 1.1

Handwritten signature

PROPERTY TYPE _____
 HOLE NO. R-14 _____
 LOCATION _____
 DATE Apr. 13 1977 _____
 DEPTH 56.3+M _____
 CORE SIZE HQ 7R1 _____
 RDDS HQ _____
 INSTRUMENT GR410 _____
 FUNCTION T.G. _____
 RANGE 16 _____
 LOGGED BY M.V. _____
 100% = 1600 _____
 C.P.S. _____

RADIO METRIC LOG



R-1A; HQ; TC; 1600; 301V
 APRIL 13 1977

HEWLETT-PACKARD 9280
 HEWLETT-PACKARD 9280-0278
 HEWLETT-PACKARD 9280-0278

END AT 52.4

50
45
40
35
30
25
20
15
10
5
0

810

820

830

840

850

RADIO METRIC LOG

PROPERTY	61		
HOLE No.	B-11	LOCATION	
DATE	4/4/77	DEPTH	52.4 m
CORE SIZE	HQ TRI	RODS	HQ
INSTRUMENT	GR-410	PROBE	1.5 EXP
FUNCTION	TC	RANGE	16
100% =	1600	C.P.S.	
LOGGED BY	MV		J. J. Walker

HEWLETT-PACKARD 9280-0278

6288

END AT 67.4

65

60

55

50

45

40

35

30

25

20

15

10

5

0

R-3

810

880

880

840

850

860

READJUST 0

RADIO METRIC LOG

PROPERTY 61
 HOLE No. R-3 LOCATION _____
 DATE 15/3/77 DEPTH 69.4m 870
 CORE SIZE HQ TRI RODS HQ
 INSTRUMENT GR 410 PCODE 15 EXP
 FUNCTION TC RANGE 16
 100% = 1600 C.P.S.
 LOGGED BY MV

J. J. Walker

R-3; HQ RODS; TC; 1600; 30W
DATE 15/3/77

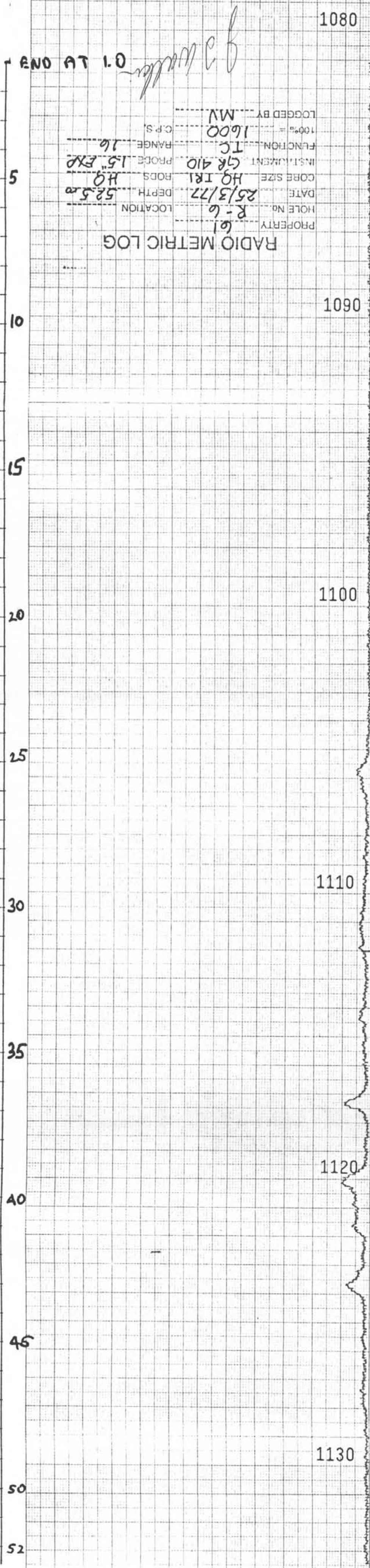
HEWLETT-PACKARD 9280-0278

HEWLETT-PACKARD 9280-0278

HEWLETT-PACKARD 9280-0278

6288

6288



END AT 1.0

J. Walker

PROPERTY: 61
 HOLE No.: R-6
 DATE: 25/3/77
 DEPTH: 52.50
 RODS: HQ
 CORE SIZE: HQ IR1
 INSTRUMENT: GR 410
 PROBE: 15" EXD
 RANGE: 16
 FUNCTION: TC
 100% = 1600
 LOGGED BY: MV
 C.P.S.

RADIO METRIC LOG

1080

1090

1100

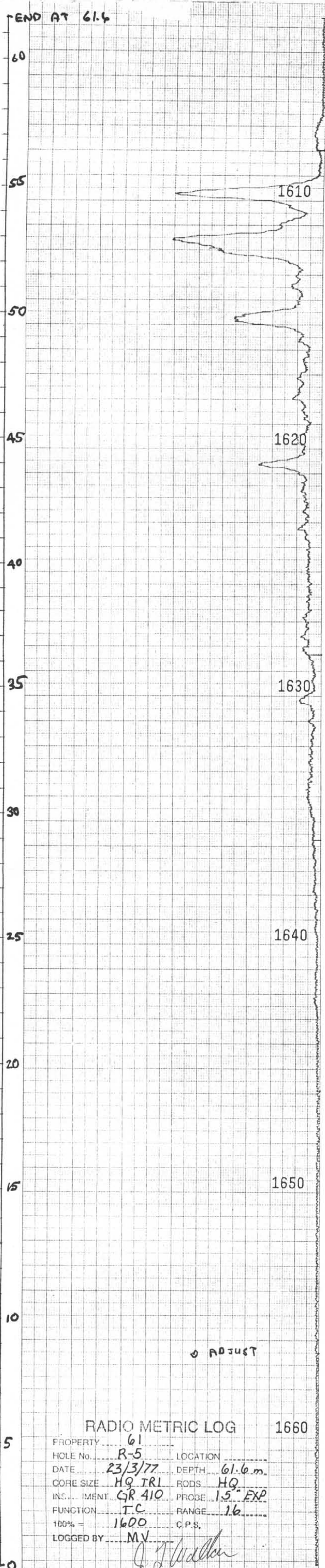
1110

1120

1130

Rob

R-6; HQ RODS; TC; 1600; 3 DIV
 March 25/77



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RADIO METRIC LOG

1660

PROPERTY 61
 HOLE No. R-5 LOCATION _____
 DATE 23/3/77 DEPTH 61.6 m.
 CORE SIZE HQ IRI RODS HQ
 INSTRUMENT GR 410 PROBE 15" EXP
 FUNCTION TC RANGE 16
 100% = 1600 C.P.S.
 LOGGED BY MV

J. J. Walker

R-5

ADJUST

6288

88279

540

PROPERTY 61
 HOLE No. NT-3
 DATE 22/1/77
 CORE SIZE HQ
 INSTUMENT GR 410
 FUNCTION TC
 RANGE 16
 C.P.S. 1600
 LOGGED BY MV. JCB
 TC/1600
 2.2.77

RADIO METRIC LOG

550

560

650

660

670

10

20

30

40

50

NT-3

60

64

step 'up' TC/

T.C. P.S. = 1600° PS

HEWLETT-PACKARD 9280-0278

6288

NT-1 TC

J. J. Walker

RADIO METRIC LOG

PROPERTY: 61
HOLE NO.: NT-1
LOCATION: NT-1

DATE: 15/12/76
DEPTH: 68.0m

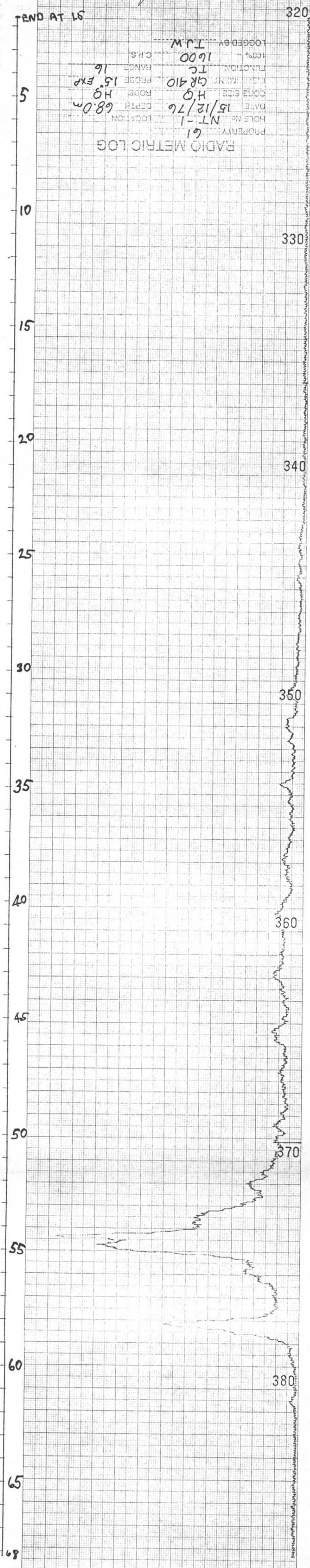
CORE SIZE: HQ
RODS: HQ

EQUIPMENT: GR410
PROBE: 15 EXP

FUNCTION: TC
RANGE: 16

LOG%: 1600
LOGGED BY: TJW

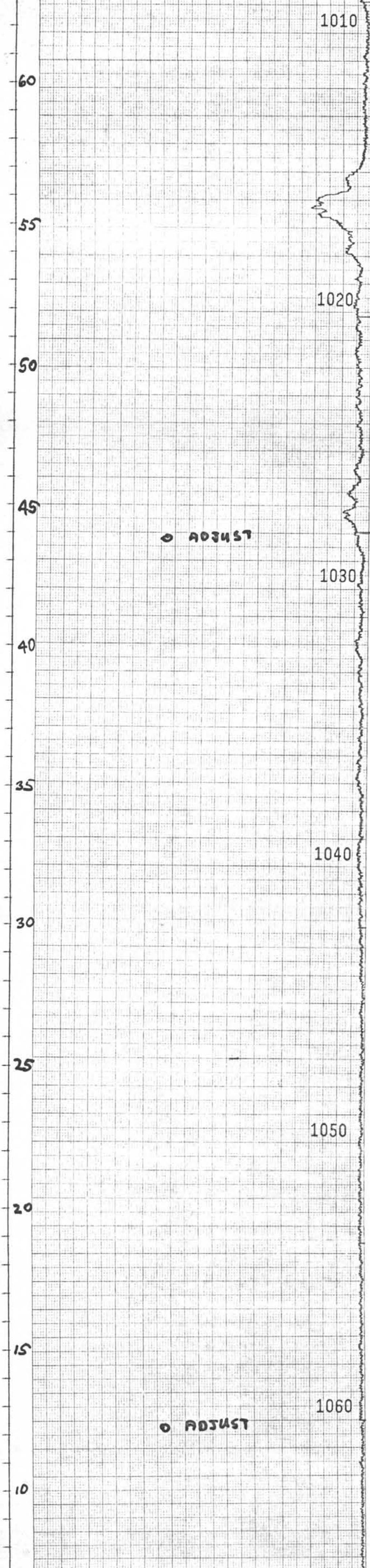
END AT 15



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HEWLETT-PACKARD 9280-0278

END AT 65.3



HEWLETT-PACKARD 9280-0278

HEWLETT-PACKARD 9280-0278

RADIO METRIC LOG

PROPERTY 61
 HOLE No. R-10 LOCATION _____
 DATE 2/4/77 DEPTH 65.3 m
 CORE SIZE HQ TRI RODS HQ
 INSTRUMENT GR 410 PROBE 1.5" EXP
 FUNCTION TC RANGE 16 1070
 100% = 1600 C.P.S.
 LOGGED BY MV

J. J. Walker

6288

END AT 61.2

1210

60

55

1220

50

45

1230

40

35

1240

30

25

1250

20

15

0 ADJUST

1260

10

RADIO METRIC LOG

PROPERTY 61
 HOLE No. R-9 LOCATION _____
 DATE 31/3/77 DEPTH 61.2m
 CORE SIZE HQ TRI RODS HQ
 INSTRUMENT GR 410 PROBE 1.5 EXP
 FUNCTION TC RANGE 16
 100% = 1600 C.P.S.
 LOGGED BY MV

1270

J. J. Walker

HEWLETT-PACKARD 9280-0278

6288

8879

RADIO METRIC LOG

PROPERTY 61

HOLE No. R-7

DATE 27/3/77

DEPTH 68.2m

CORE SIZE HQ TR1

RODS HQ

INSTRUMENT GR410

PROBE 1.5 EXP

FUNCTION IC

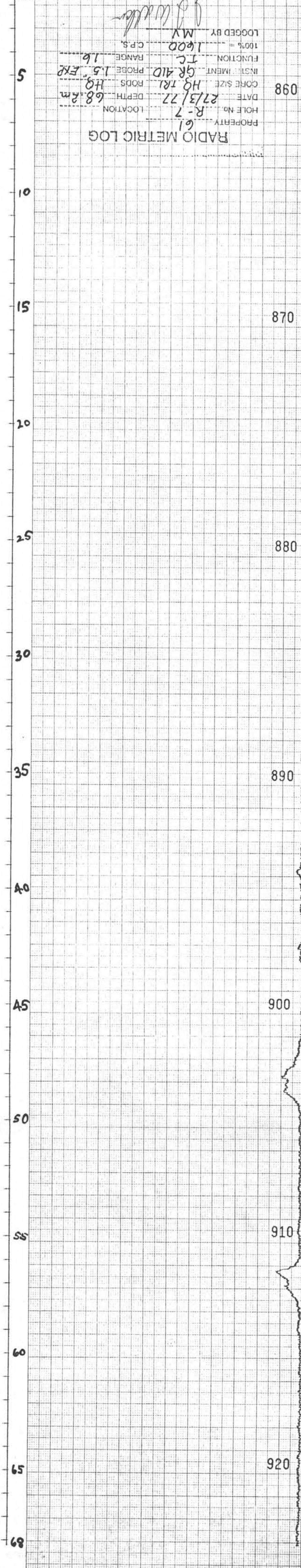
RANGE 16

100% = 1400 C.P.S.

LOGGED BY MV

[Signature]

071 AT 093

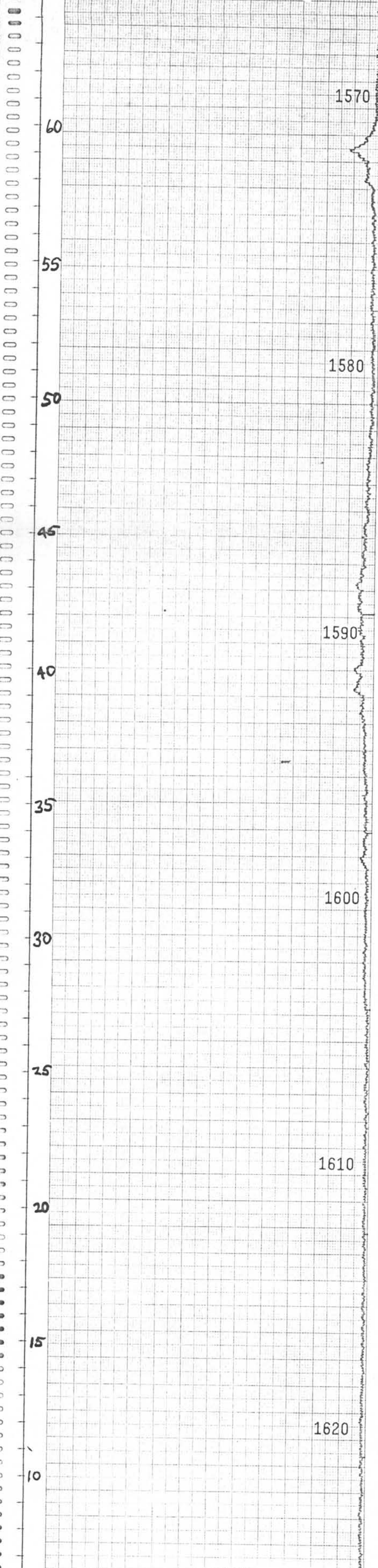


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HEWLETT-PACKARD 9280-0278

071 HQ: TC: 1400 3 DIV MARCH 27/77

TEND AT 64.7

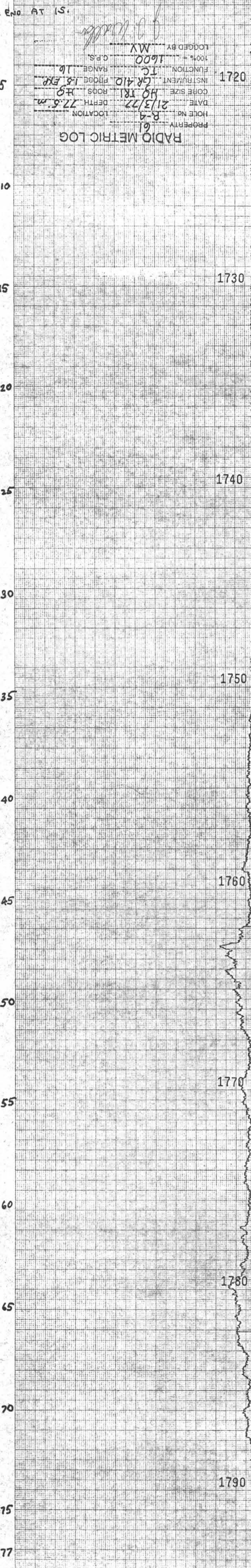


RADIO METRIC LOG	
PROPERTY	61
HOLE No.	R-8
DATE	29/3/77
CORE SIZE	HQ TRI
INSTRUMENT	GR 410
FUNCTION	TC
100%	1600
LOGGED BY	MV
LOCATION	
DEPTH	64.7 m
RODS	HQ
PROG	1.5 EXP
RANGE	16
C.P.S.	1630

J. J. Walker

6288

88279



R-4; HQ RODS; TC; 1600; 3DW

PROPERTY: 61
 HOLE NO.: R-4
 DATE: 21/3/77
 CORE SIZE: HQ 181
 INSTRUMENT: GR 410
 FUNCTION: TC
 RANGE: 16
 C.P.S.: 1600
 LOGGED BY: MV
 100% =

SI AT IS.

HEWLETT-PACKARD 9280-0278

#1

RADIO METRIC LOG

LOGGED BY LCB/MV
 100% = 1600
 FUNCTION TC
 INCIDENT GRAD
 CORE SIZE HQ
 DATE JAN 28/77
 LOCATION NT-4
 SUPPLY TYPE NT-4

430

440

450

460

470

480

490

NT-4

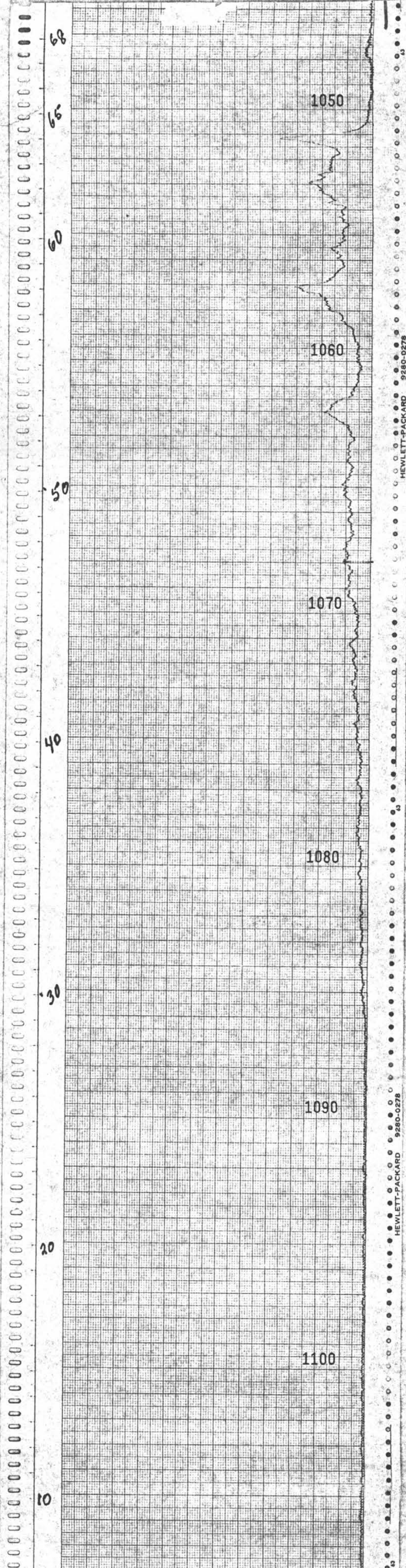
RADIO METRIC LOG

PROPERTY 61
 HOLE No. NT-4 LOCATION
 DATE 28/1/77 DEPTH 65.5m
 CORE SIZE HQ RODS HQ
 INCIDENT GRAD PROBE 1.5' EXP
 FUNCTION TC RANGE 16
 100% = 1600 C.P.S.
 LOGGED BY LCB·MV

TC:1600

HEWLETT-PACKARD 9280-0278

6288



RADIO METRIC LOG

PROPERTY 61
 HOLE No. NT-2 LOCATION 1110
 DATE 12/1/77 DEPTH 68.5m
 CORE SITE HQ RODS HQ
 INSTRUMENT GR 410 PROBE 15' EXP
 FUNCTION TC RANGE 16
 100% 1600 C.P.S.
 LOGGED BY TJW

NT-2

NT-2 *J.J. Walker*

TC.
FS. 1600C.P.S.

6288

6288

RADIO METRIC LOG

0881

PROPERTY TYPE

HOLE NO. R-17

LOCATION

DATE APR. 14 1977

DEPTH 49.8M

CORE SIZE HQ TRI

RODS HQ

INS. MEN. GRAID

PROBE 1/4"

FUNCTION T.C.

RANGE 16

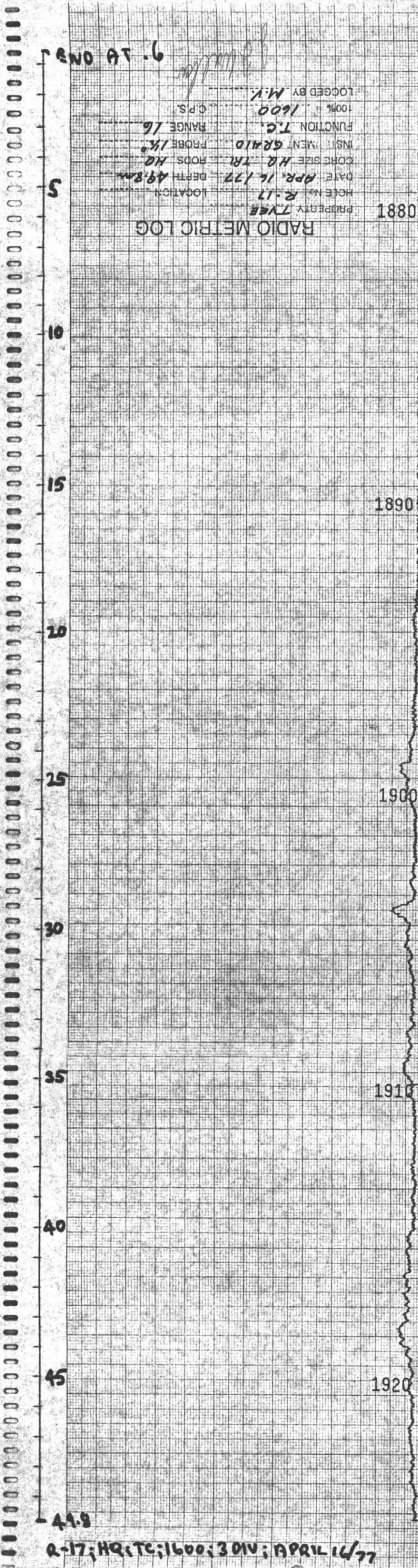
100% 1600

C.P.S.

LOGGED BY M.V.

[Signature]

END AT -6

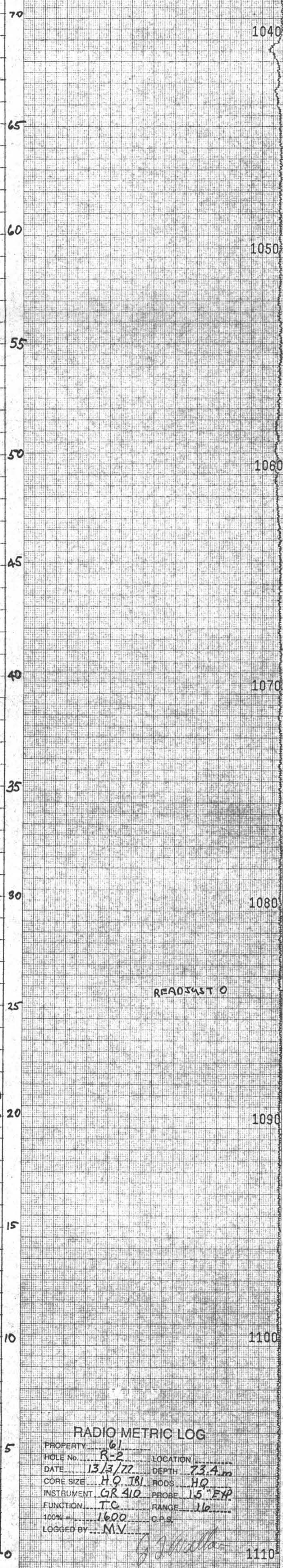


49.8

R-17; HQ; TC; 1600; 30V; APRIL 14/77

add: H2PO4, H2O, Fe, Mn

END PT 73.4



R-2

READJUST 0

RADIO METRIC LOG

PROPERTY 61
HOLE No. R-2 LOCATION _____
DATE 13/3/72 DEPTH 73.4 m
CORE SIZE HQ TR1 RODS HQ
INSTRUMENT GR 410 PROBE 15" FHP
FUNCTION TC RANGE 16
100% = 1600 C.P.S.
LOGGED BY MV

G. J. Waller

1110

R-2; HQ ROD; TC; 1600; 3DIV

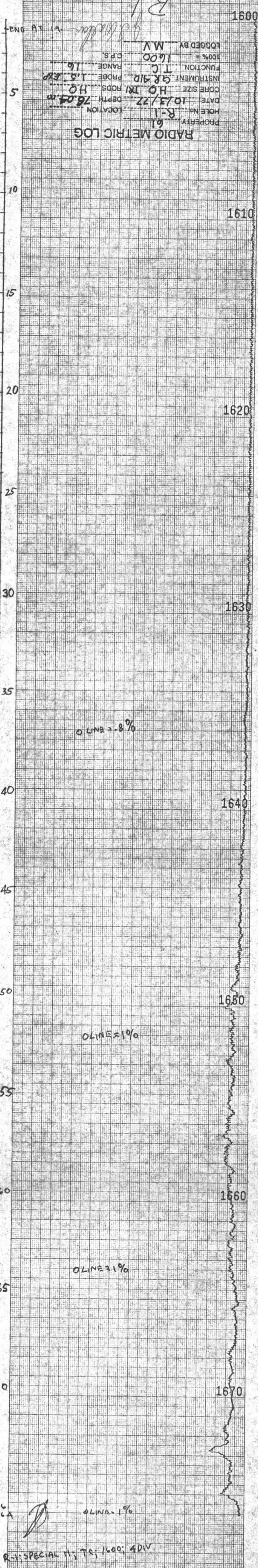
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6288

6288

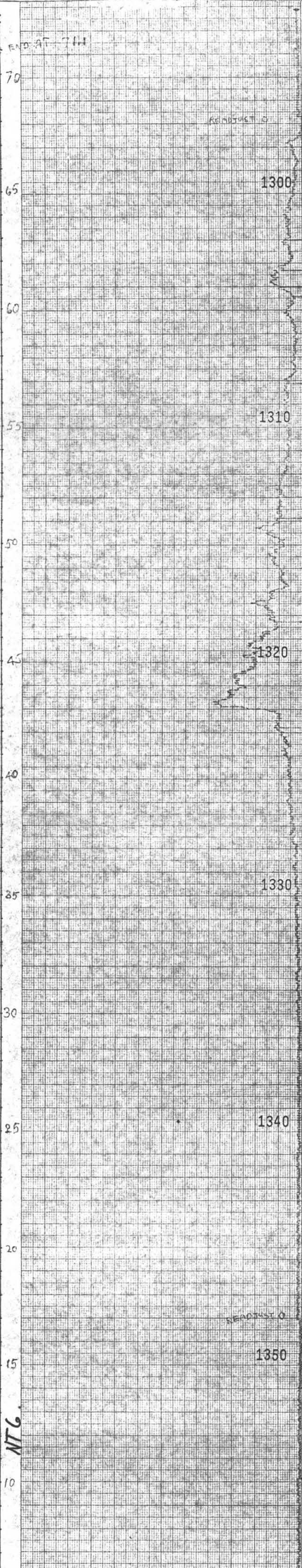
RADIO METRIC LOG

PROPERTY: R-1
 HOLE NO.: R-1
 LOCATION: 61
 DATE: 10/3/77
 DEPTH: 76.04 m
 CORE SIZE: HQ
 INSTRUMENT: GR 91D
 PROBE: 1.5 EXP
 FUNCTION: TC
 RANGE: 16
 100% = 1600 C.P.S.
 LOGGED BY: M.V.
 R1



R-1; SPECIAL 11; TC; 1600; 4DIV

HEWLETT-PACKARD 9280-0278



RADIO METRIC LOG

PROPERTY	61	1360
HOLE No.	NT-6	LOCATION
DATE	10/2/77	DEPTH
CORE SIZE	HQ	FODS
INSTRUMENT	GR 410	PROBE
FUNCTION	TC	RANGE
100%	1600	C.P.S.
LOGGED BY	MV	

HEWLETT-PACKARD 9280-0278

6288

73.9
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0

1970

-32

1980

1990

2000

2010

2020

2030

2040

NTS

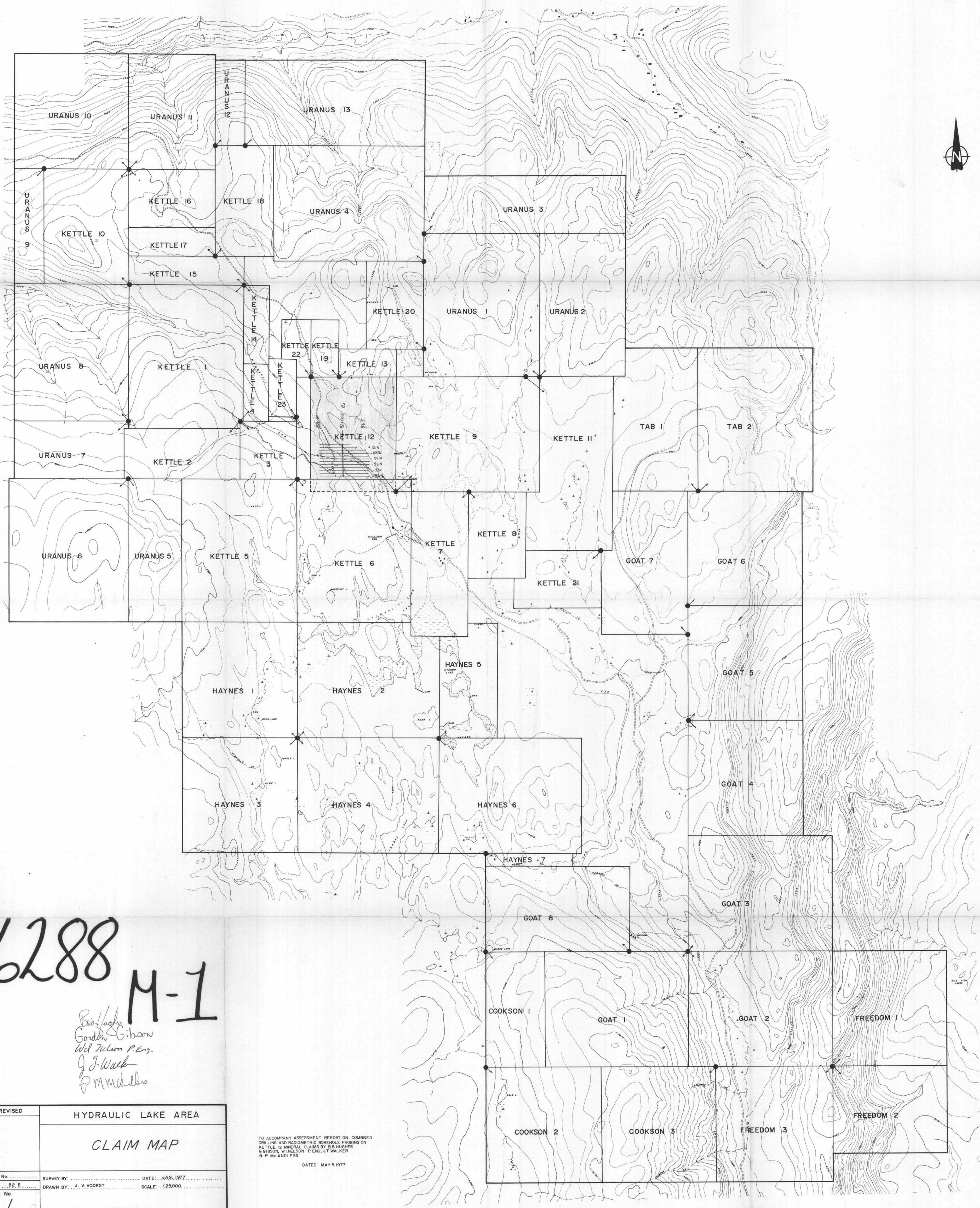
RADIO METRIC LOG

PROPERTY 61
 HOLE No. NT-5 LOCATION
 DATE 4/2/77 DEPTH 73.9 m.
 CORE SIZE HQ RODS HQ
 INSTRUMENT GR 410 PROBE 1.5' EXP.
 FUNCTION TC RANGE 16
 100% = 1600 C.P.S.
 LOGGED BY MV

J. J. Walker

HEWLETT-PACKARD 9280-0278

6288



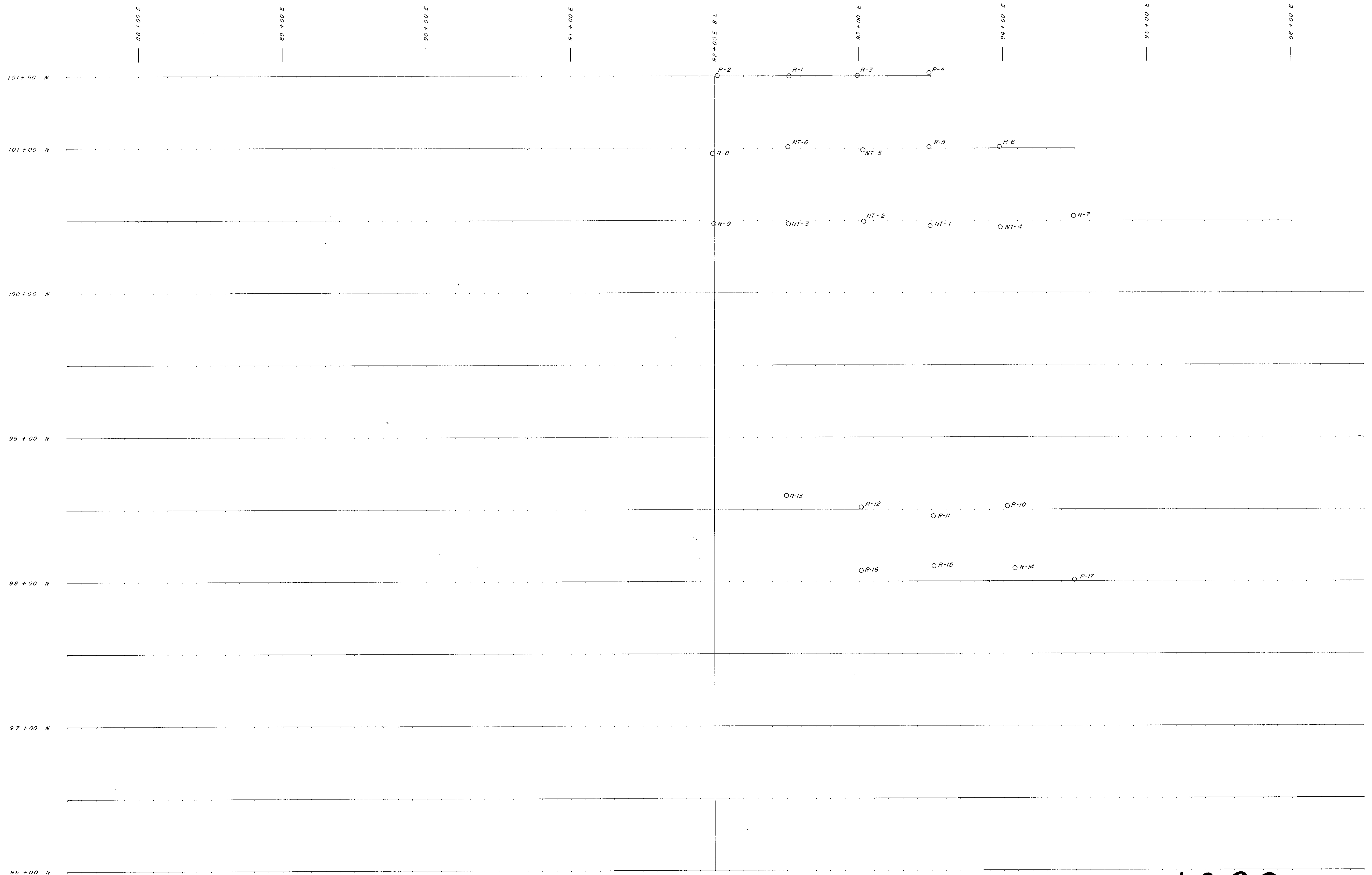
6288 M-1

*Bio/John
Gordon Gibson
Wet Nelson P. Eng.
J. J. Walk
P. McMillan*

REVISED	HYDRAULIC LAKE AREA	
	CLAIM MAP	
PROJ. No.	SURVEY BY:	DATE: JAN. 1977
N.T.S. 82 E.	DRAWN BY: J. V. VOORST	SCALE: 1:25,000
DWG. No. 1	OFFICE: VAN COUVER	

TO ACCOMPANY ASSESSMENT REPORT ON COMBINED DRILLING AND RADIOMETRIC BOREHOLE PROBING ON KETTLE 12 MINERAL CLAIMS BY B.B. HUGHES & GIBSON, WILSON, P. ENG., J.T. WALKER & P. McANDLESS.

DATED: MAY 5, 1977



6288 M-2

TO ACCOMPANY ASSESSMENT REPORT ON COMBINED DRILLING AND RADIO-METRIC BOREHOLE PROBING ON KETTLE 12 MINERAL CLAIMS BY BRANDAGES, GIBSON, WILSON-PENG, J.T. WALKER AND P. MARJOLESS.

DATE: MAY 5, 1977
Bruce Gibson
W. J. Walker
P. Marjoles

REVISED	TYEE - HYDRAULIC LAKE PROJECT	
	DRILL PLAN	
PROJ. No.	SURVEY BY: JAN VAN VOORST	DATE: NOV. 1976
N.T.S.	DRAWN BY: JAN VAN VOORST	SCALE: 1:1000
DWG. No.	NORANDA EXPLORATION	
2	OFFICE: VANCOUVER	