

DIAMOND DRILLING AND BULLDOZER TRENCHING (1971)
REPORT ON FUKI (1 to 40 incl.) and DONEN (1 to 280
incl.) MINERAL CLAIMS (URANIUM), 49°, 118° NW,
GREENWOOD MINING DIVISION, BRITISH COLUMBIA.

work done

during period May 22 to July 10, 1971

For

Nissho-Iwai Canada Ltd.

The registered Claim Owner

3135

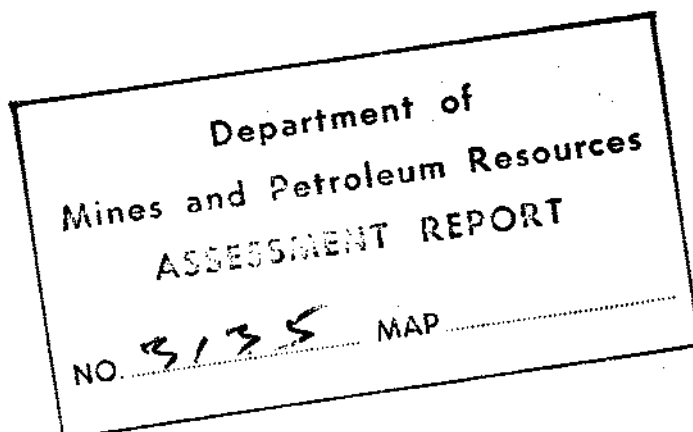
By

Kiyoshi Kikuchi, B.Sc.

Managing Geologist of the work,
Power Reactor and Nuclear Fuel
Development Corporation, Japan

Vancouver, B.C.

July 22, 1971.



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DIAMOND DRILLING AND BULLDOZER TRENCHING
(1971) REPORT ON FUKI (1 to 40 incl.) and
DONEY (1 to 280 incl.) MINERAL CLAIMS
(Uranium), 49° 118° NW, GREENWOOD MINING
DIVISION, BRITISH COLUMBIA.

I. INTRODUCTION.

Diamond drilling and bulldozer trenching assessment work for 1970 - 1971 on Fuki (1 to 40 inclusive) and Doney (1 to 280 inclusive) Mineral Claims, Greenwood Mining Division, B.C., was done during the period May 22 to July 10, 1971 by the working party of the Power Reactor and Nuclear Fuel Development Corporation (Japan) as agent for Nissho-Iwai (Canada) Ltd., which is the registered owner of all the mineral claims.

The result of the work is wholly reported herein and this report is part of a series of similar reports, "Geological, Geophysical and Diamond Drilling Report (1969)", and "Geological, Radiometric and Diamond Drilling Report (1970)", synthesizing the geologic relation of uranium deposits in this area.

For further detailed geology and mineralogy on this area, refer to the reports above mentioned.

The work was carried out under EXPLORATION PERMIT MX 32-69 AMENDMENT NO. 1 issued by the Atomic Energy Control Board, dated March 17, 1970.

The work was managed by Kiyoshi Kikuchi, B.Sc., Geologist, who was attending to the work at the property during the entire period.

The writer is indebted to Dr. Toru Kikuchi, P. Eng., Consulting Geological Engineer, for his helpful suggestion on one visit to the property and for his assistance in preparing this report.

II. GENERAL STATEMENT.

1) Location, Access and Historical Notes.

The property is located at the southern edge of the Province of B.C. near the American border, that is, about $49^{\circ} 28' - 37' N$, $118^{\circ} 49' - 55' W$. It is approximately 33 air miles east of Penticton and also 33 air miles north of Rock Creek. The forest road to the property, which branches off from the paved road at 0.6 miles north of Beaverdell, leads to Christian Valley, and it is about 13.3 miles from the paved road to the Fuki outcrop on the property. (See Fig. 1 & 2.)

There are many logging roads in the area. The property is between approximately 200' and 4500' in elevation.

Brief historical notes of this area are as follows:

1968 The uranium showing was first found by I. Fukuoka and K. Kuroki, geologist of the Power Reactor and Nuclear Fuel Development Corporation (P.N.C.), Japan.

The Fuki (1 - 40 inclusive) and the Donen (1 - 40 inclusive) Mineral Claims were located.

1969 The geological, geophysical and diamond drilling survey was done on the property as the assessment work by the P.N.C. 240 additional claims were located, Donen 41 - 280 inclusive, surrounding the original claims.

1970 Geological, radiometric and diamond drilling survey was carried out on the Fuki (1 - 40 inclusive) and Donen (1 - 280 inclusive)

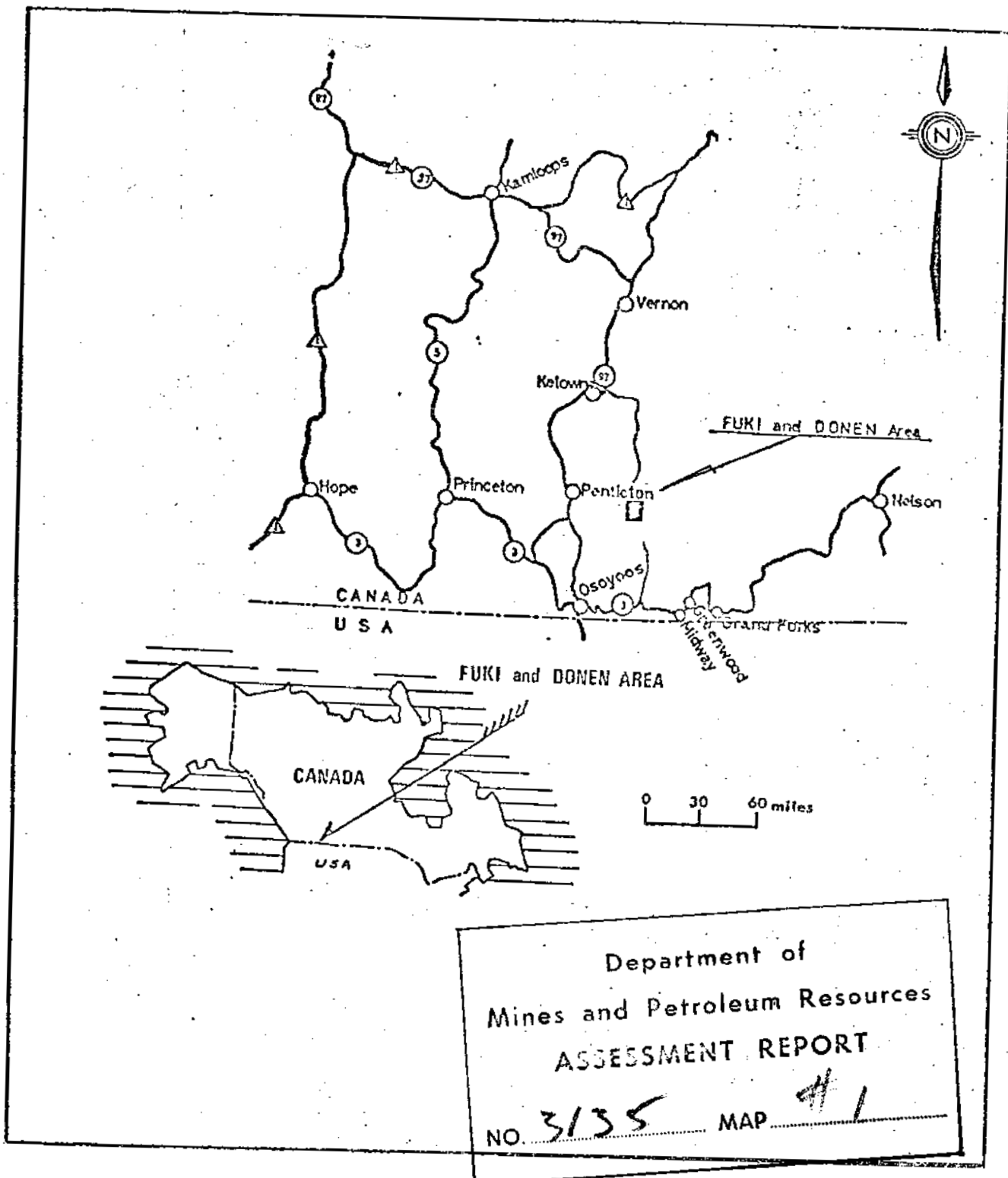


Fig. 1 Location Map

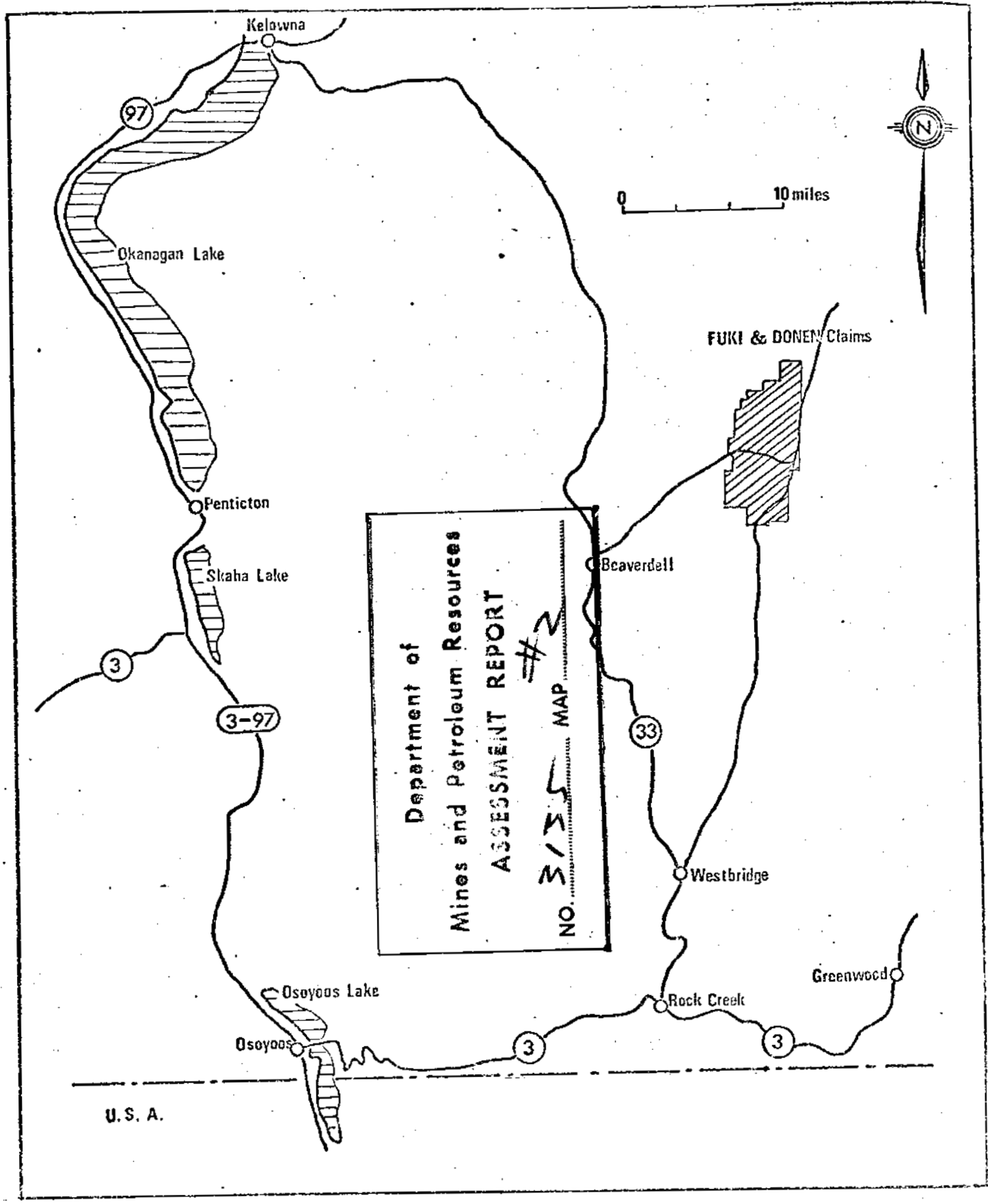


Fig. 2 Access Road Map

as the assessment work by the P.N.C.

The following references were used by the writer:

K. Doi ----- Geological, Geophysical and Diamond Drilling
Report on the Fuki and Donen Groups.
August 5, 1969.

K. Kikuchi - Geological, Radiometric and Diamond Drilling
Report on the Fuki (1 - 40 incl.) and Donen
(1 - 280 incl.) Mineral Claims (uranium)
July 22, 1970.

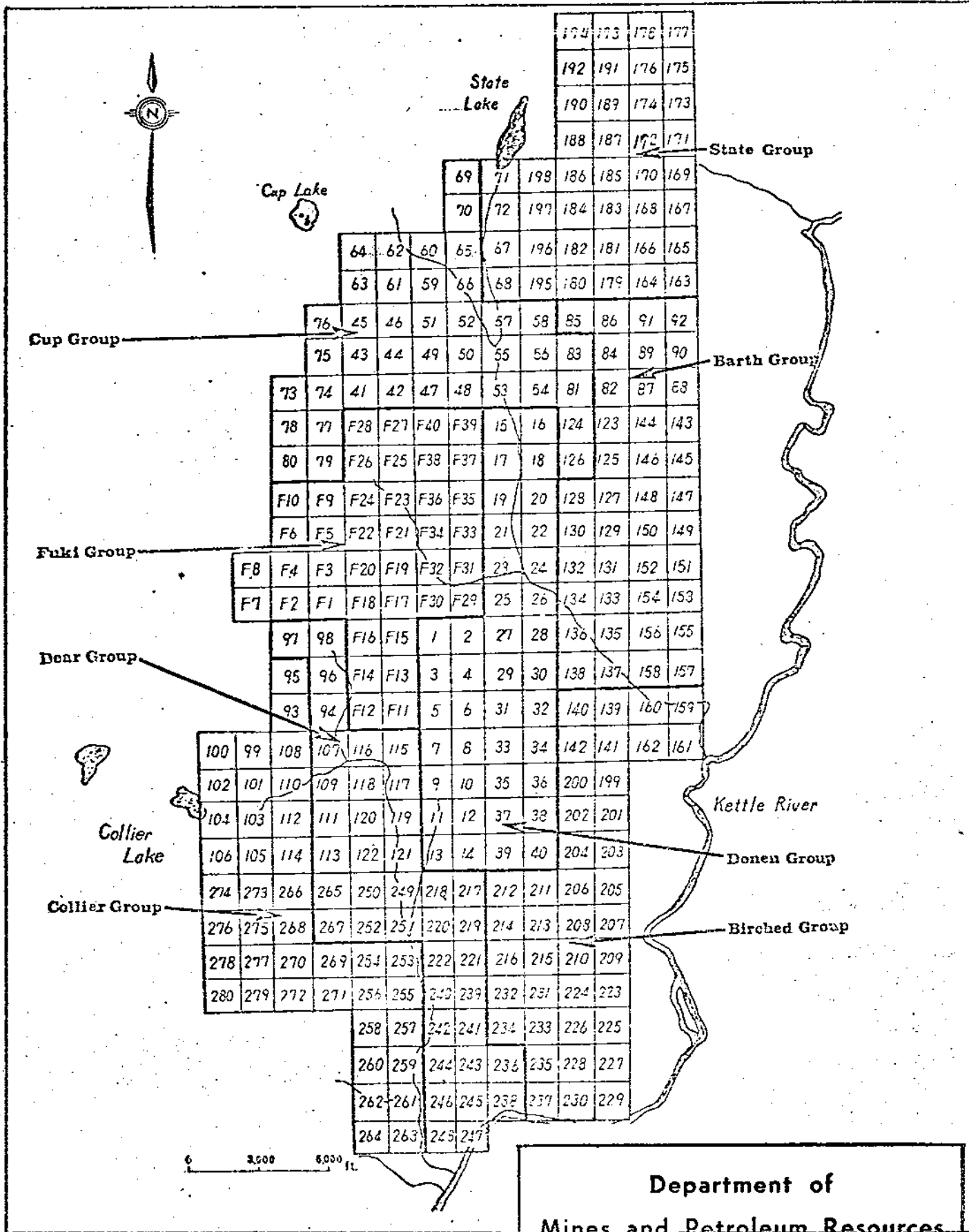
H.W. Little- Geological Map, "Kettle River (East Half)
(1" = 4 miles) (1957)

2) Mineral Claims.

There are 320 Mineral Claims, that is, Fuki (1 - 40 incl.)
and Donen (1 - 280 incl.), and the registered owner is Nissho-Iwai
Canada Ltd., Suite 801, 1111 West Hastings Street, Vancouver 1, B.C.

These 320 Mineral Claims have been grouped under the names
Fuki, Donen, Collier, Dear, Birched, Barth, State and Cup. (See
Fig. 3.)

The assessment work which was done last year for the Fuki
(1 - 40 incl.) and Donen (1 - 280 incl.) Mineral Claims has been
accepted by the B.C. Government to keep the claims in good standing
as shown in Table 3.



Mineral Claim Map
Fig. 3.

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 3135 MAP 413

TABLE 1 RECORDED NUMBERS OF MINERAL CLAIMS

<u>Name of Claim</u>	<u>Recorded No.</u>	<u>Recorded Date</u>
Fuki 1 to 28 incl.	27843 to 27870 incl.	Aug. 14, 1966
Fuki 29 to 40 incl.	28047 to 28058 incl.	Sept. 13, 1968
Donen 1 to 40 incl.	28059 to 28098 incl.	Sept. 13, 1968
Donen 41 to 1962 incl.	30061 to 30182 incl.	July 30, 1969
Donen 163 to 198 incl.	30360 to 30395 incl.	Aug. 12, 1969
Donen 199 to 280 incl.	30631 to 30712 incl.	Aug. 25, 1969
TOTAL	320 claims.	

TABLE 2 GROUPS AND MINERAL CLAIMS

<u>Name of Group</u>	<u>MINERAL CLAIMS</u>
FUKI GROUP	FUKI 1 - 40 inclusive. Total 40 Claims.
DONEN GROUP:	DONEN 1 - 40 inclusive. Total 40 Claims.
COLLIER GROUP:	DONEN 93, 95, 99, 100, 101, 102, 103, 104, 105, 106, 108, 110, 112, 114, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 266, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280. Total 40 Claims.
DEAR GROUP:	DONEN 94, 96, 97, 98, 107, 109, 111, 113, 115, 116, 117, 118, 119, 120, 121, 122, 217, 218, 219, 200, 221, 222, 236, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 265, 267. Total 40 Claims.
BIRCHED GROUP:	DONEN 139, 140, 141, 142, 159, 160, 161, 162, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 237. Total 40 Claims.
BARTH GROUP:	DONEN 82, 84, 85, 86, 87, 88, 89, 90, 91, 92, 123, 125, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158. Total 40 Claims.
STATE GROUP:	DONEN 67, 68, 71, 72, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198. Total 40 Claims.
CUP GROUP:	DONEN 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 69, 70, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 124, 126. Total 40 Claims.

Table 3
Mineral Claim Situation (Re Expiration Date)

<u>Name of Group</u>	<u>Expiration Date</u>	<u>Name of Claims</u>
FUKI 40 claims	Aug. 14, 1973 17 claims	F 6, F 7, F 8, F 9, F10, F11, F12, F13, F14, F15, F16, F23, F24, F25, F26, F27, F28.
	Sept. 13, 1973 12 claims	F29, F30, F31, F32, F33, F34, F35, F36, F37, F38, F39, F40.
	Aug. 14, 1974 11 claims	F 1, F 2, F 3, F 4, F 5, F17, F20, F21, F22.
DONEN 40 claims	Sept. 13, 1971 6 claims	15, 16, 17, 18, 19, 20.
	Sept. 13, 1972 34 claims	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40.
COLLIER 40 claims	Aug. 25, 1972 14 claims	253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 269, 271.
	Aug. 25, 1973 7 claims	274, 275, 276, 277, 278, 279, 280.
	July 30, 1974 14 claims	93, 95, 99, 100, 101, 102, 103, 104, 105, 106, 108, 110, 110, 112, 114.
	Aug. 25, 1974 5 claims	266, 268, 270, 272, 273.
DEAR 40 claims	July 30, 1971 5 claims	121, 122, 217, 218, 219.
	Aug. 25, 1971 21 claims	220, 221, 222, 236, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 265, 267.
	July 30, 1972 14 claims	94, 96, 97, 98, 107, 109, 111, 113, 115, 116, 117, 118, 119, 120.

Name of Group	Expiration Date *	Name of Claims **
BIRCHED 40 claims	July 30, 1971 8 claims	139, 140, 141, 142, 159, 160, 161, 162.
	Aug. 25, 1971 23 claims	199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 223, 224, 225, 226, 227, 228, 229, 230, 234, 235, 237.
	Aug. 25, 1972 9 claims	211, 212, 213, 214, 215, 216, 231, 232, 233.
BARTH 40 claims	July 30, 1971 29 claims	84, 85, 86, 87, 88, 89, 90, 91, 92, 131, 132, 133, 134, 135, 136, 137, 138, 143, 144, 145, 146, 147, 148, 419, 150, 151, 152, 153, 154.
	July 30, 1972 11 claims	82, 123, 125, 127, 128, 129, 155, 156, 157, 158, 130.
STATE 40 claims	July 30, 1972 4 claims	67, 68, 71, 72.
	Aug. 12, 1972 32 claims	163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198.
	Aug. 12, 1973 4 claims	183, 184, 185, 186.
CUP 40 claims	July 30, 1971 16 claims	53, 54, 55, 56, 57, 58, 69, 70, 73, 74, 75, 76, 77, 78, 79, 80.
	July 30, 1972 24 claims	41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 59, 60, 61, 62, 63, 64, 65, 66, 81, 83, 124, 126.

* As of the date of this report, that is, before Application for Certificate of Work in this report.

** F 11 FUKI 11 Mineral Claims
12 DOWEN 12 Mineral Claims

Table 4
Mineral Claims Situation (Re Expiration Year)

<u>Name of Group</u>	<u>Expiration year *</u>				<u>Total Claims</u>
	1974	1973	1972	1971	
FUKI	11	29	--	--	40
DONEN	--	--	34	6	40
COLLIER	19	7	14	--	40
DEAR	--	--	14	26	40
BIRCHED	--	--	9	31	40
BARTH	--	--	11	29	40
STATE	--	4	36	--	40
CUP	--	--	24	16	40
TOTAL CLAIMS	30	40	142	108	320

Refer Fig. 4

* As of the date of this report, that is, before application for Certificate of Work in this report.

3) Work done.

During the period May 22 to July 10, 1971, the writer as agent for Nissho-Iwai Canada Ltd., the claims owner, carried out the assessment work covered by this report.

The field crews were as follows:

Kiyoshi Kikuchi Geologist, P.N.C.
 Managing the work
 c/o Nissho-Iwai Canada Ltd.
 801 - 1111 West Hastings Street
 Vancouver, B.C.

Toru Kikuchi Geologist
 Consulting Geological Engineer
 1374 Park Drive
 Vancouver, B.C.

H.O. Thomas Bulldozer operator and Helper,
worked about 40 days during the
period May 23 to July 10, 1971.
Westbridge, B.C.

Connors Drilling Ltd. Drilling Contractor
155 West 3rd Avenue
Vancouver, B.C.

The writer stayed at a motel in Rock Creek, and a 4x4 vehicle was rented for the duration of the working time.

The work done is mainly as follows:

- | | | |
|------------------------|----------|---------------------------|
| 1) Diamond drilling | 17 holes | 3300 feet |
| 2) Bulldozer trenching | 3 places | About 2140 m ³ |

The writer supervised this work, did the necessary geological work and logged the cores.

Two Scintillation Survey Meters (TCS-122-B, made by Nippon Musen Co. Ltd., Tokyo) were used for field survey and Scintillation Survey Meter (TCS-603, made by Nippon Musen Co. Ltd., Tokyo) was used to probe the drill holes.

The access road, drill site preparation and drill machine moving were made by H.O. Thomas, Westbridge, B.C.

III. GEOLOGY AND MINERALIZATION

1) Geology.

The detailed geological description of the area is shown in the report by K. Kikuchi (1970) which contains a geologic map of the area. He showed the presence of six mappable units, that is, the so-called Anarchist Group of Paleozoic, the Valhalla and Nelson Intrusions of Mesozoic, the Phoenix Group of Tertiary, the Coryell Intrusion of Tertiary, and the Beaverdell Formation of Quarternary.

Table 5

COLUMN OF GEOLOGICAL FORMATIONS

COLUMN	EXPLANATION	AGE		THICK- NESS	
		Quar- ter- nary	Pleisto- cene		
	Beaverdell Formation	(a) conglomerate, sandstone, shale	Quar- ter- nary	Pleisto- cene	90'
	Plateau Basalt Formation	(b) coarse grained olivine basalt and its tuff breccia (Cup lake basalt)	Tertiary	Miocene -- Pliocene	250'
		(c) fine grained olivine basalt and its tuff breccia (Dear Creek Basalt)			200'
		(d) conglomerate, shale, sandstone (Uranium bearing)			130'
	Coryell Intrusions	(e) syenite, granite, granite-porphry	Tertiary	Eocene -- Oligocene	1500'
	Phoenix Group	(f) biotite andesite and its tuff breccia (g) andesitic tuff breccia, welded tuff, sandstone, shale, and andesite lava			
	Valhalla and Nelson Intrusions	(h) granite, granodiorite, quartz monzonite	Cretaceous		
	Anarchist Group	(i) sandstone, shale, limestone	Paleozoic		

Table 4 shows the stratigraphic units recognized by K. Kikuchi. As he described the details about each Formation in his report of 1970, the writer is not repeating them here.

2) Mineralization.

The radiometric anomalies have been recognized in two different formations since the survey by the P.N.C. in 1968.

One is in the lower part of the Plateau Basalt Formation of Tertiary age and the other is in the Phoenix Group of Tertiary Age.

As the anomalies in the Plateau Basalt Formation are generally stronger than the other one, the schedule of the work for 1971 was mainly research at the Plateau Basalt Formation.

The uranium occurrences at the Plateau Basalt Formation generally have the following characteristics:

1. The uranium bearing beds are chiefly in the lower parts of the Plateau Basalt Formation that consists largely of conglomerate, sandstone and shale.
2. Conglomerate, sandstone and shale have been recognized in the ancient channel in the Phoenix Group (a depression in the surface of the Phoenix Group) and are nearly flat lying.
3. The conglomerate contains many cobbles and boulders as large as a foot in diameter and a few boulders of about 8 feet in diameter in arkosic matrix.
4. The boulders are subangular to rounded and vary considerably in composition but are chiefly granite and graniteporphyry derived either from the Valhalla or the Coryell intrusions.

5. The shale bed is lenticular and no single bed can be traced for more than 300 feet.
6. These sediments are all fluvial because in some places of the area carbonaceous material is present and no marine evidence is observed in the sediments.
7. The maximum thickness of these sediments is as much as 50 - 60 feet.
8. They are unconformably overlying the Phoenix Group and are conformably covered by the Plateau basalt and its tuff breccia.
9. Most of the uranium mineralization extends nearly horizontally along strata of conglomerate, sandstone and carbonaceous shale of the lowest part of the Plateau Basalt Formation.
10. The maximum thickness of the uraniferous bed is as much as 9 feet.
11. Radioactive anomalies are generally observed in the arkose and in the matrix of conglomerate.
12. In some drill holes, highly radioactive anomalies were detected in the carbonaceous material.
13. Secondary uranium mineral, mainly Autunite, was identified from the Fuki outcrop.

The writer has recognized the similarity of uranium occurrence between the Ningsyo-toge Uranium Mine, Japan, and this area.

Seventeen (17) holes, 3300 feet in total, of diamond drilling were completed this season on the property. Eleven (11) of these holes were done on the northern part of the Fuki outcrop and six (6) holes on the western part of the Collier outcrop. Fig. 5 and Fig. 6 show the location of drill holes and geologic section near drill sites.

As a result, eleven (11) drill holes on the northern part of the Fuki outcrop indicate that the uranium bearing sediment is in a channel trending about NNE, extends about 600 - 700 feet in width, and elongates at least 0.3 miles in length along the channel, and the maximum thickness of ore bed is as much as 10 feet.

The conglomerate and/or sandstone which contain uranium were observed in almost all the drill holes, usually from seventy (70) feet to as much as one hundred and sixty (160) feet below the surface. Especially, the radioactive anomaly in No. BCF 30 drill hole was detected about 100 times the background count (40 count per minute) and the writer estimated it as 0.15% equivalent uranium.

Extension of the channel to the north may contain large potential ore reserves.

Results of six (6) drill holes on the western part of the Collier outcrop indicate that the uraniferous bed extends at least 1000 feet southwest of the Collier outcrop. The sandstone and/or conglomerate were observed in almost all the holes but the high radioactive anomaly was not detected in all the holes except No. BCF 39 drill hole.

IV. DIAMOND DRILLING.

Seventeen (17) holes, 3300 feet, of diamond drilling were done during the working time (May 22 to July 10, 1971). All drill holes were drilled by the contractor (Connors Drilling Ltd.).

Name of the holes, footage, Claim and Group names are shown in Table 6 and Table 7 of this report.

Table 6
Diamond Drill holes (1971)

<u>Name of Hole</u>	<u>Footage</u>	<u>Claim Name</u>	<u>Group Name</u>
24	147'	FUKI 3	FUKI
25	152	FUKI 3	FUKI
26	152	FUKI 3	FUKI
27	167	FUKI 3	FUKI
28	152	FUKI 3	FUKI
29	212	FUKI 3	FUKI
30	153	FUKI 3	FUKI
31	222	FUKI 5	FUKI
32	228	FUKI 5	FUKI
33	202	FUKI 5	FUKI
34	182	FUKI 5	FUKI
35	203	DONEN 93	COLLIER
36	148	DONEN 93	COLLIER
37	162	DONEN 93	COLLIER
38	258	DONEN 93	COLLIER
39	232	DONEN 93	COLLIER
40	328	DONEN 93	COLLIER
<hr/>			
TOTAL 17 holes	3300'		
<hr/>			

Table 7
Total Drill Footage of Each Group (1971)

<u>Group Name</u>	<u>Name of Hole</u>	<u>Footage</u>	
FUKI	24	147'	
	25	152	
	26	152	
	27	167	
	28	152	
	29	212	
	30	153	
	31	222	
	32	228	
	33	202	
	34	182	
Subtotal 11 holes		1,969'	1,969'
COLLIER	35	203	
	36	148	
	37	162	
	38	258	
	39	232	
	40	328	
Subtotal 6 holes		1,331'	1,331
TOTAL 17 holes			3,300'

V. BULLDOZER TRENCHING.

Bulldozer trenching was carried out at three (3) places on the property during the working time (May 22 to July 10, 1971).

The amount of overburden removal is as follows:

<u>Name of Trench</u>	<u>Amount of overburden removal</u>	<u>Claim name</u>	<u>Group name</u>
E	$50^m \times 15^m \times 2^m = 1500^m^3$	DONEN 122	DEAR
F	$30^m \times 6^m \times 3^m = 540^m^3$	DONEN 250	DEAR
G	$10^m \times 5^m \times 2^m = 100^m^3$	DONEN 252	DEAR
<hr/>			
Total 3 places	2140 ^{m3}		

Locality E.

See the location in the attached map (Fig. 5). Locality E is about 2500 feet south of the Collier outcrop and on the west side of Dear Creek.

A limonite stain zone is observed in the sheared andesitic tuff breccia of the Phoenix Group.

A bulldozer trench exposes the sheared zone impregnating small pyrite and chalcopyrite.

The sheared Zone is about 10 feet wide and strikes about N 10° W.

Radioactivity in the sheared zone shows 10 ur/h - 20 ur/h (ur/h - micro roentgen/hour) and fresh Phoenix andesitic rocks surrounding the sheared zone are detected 20 - 25 ur/h.

No high radioactivity was seen at the sheared zone.

Locality F.

A limonite stain bearing sheared zone about 1 foot wide is in

the Phoenix Andesitic tuff breccia. The shear zone strikes about N 20° E.

A bulldozer exposed the sheared zone but no occurrence of radioactive anomaly was shown at the sheared zone. Radioactivity intensity of the rocks is as follows:

The Phoenix andesitic tuff breccia	20 - 25 ur/h
The sheared zone	10 - 20 ur/h
Background count	10 ur/h

VI. CONCLUSION AND RECOMMENDATION

I) Conclusion

1. The uranium occurrences of this property are stratigraphically observed at the base of the Plateau Basalt Formation of Tertiary age.
2. The uraniumiferous bed at the base of the Plateau Basalt Formation consists of conglomerate, sandstone and shale and the distribution of these sediments is controlled by a channel of the Phoenix Group.
3. The direction of the channel is trending toward WNE on the northern part of Fuki outcrop.
4. Some eleven (11) diamond drill holes were completed this season (1971) near the Fuki outcrop. The result of the drill holes indicates that eight (8) drill holes cut uranium mineralization ranging from 3 feet to 10 feet in thickness and their grade varies from 0.01 to 0.15% eu.
5. The extension of the uranium bearing sediments is approximately 600 feet wide and elongates at least 0.3 miles in length along the channel near the Fuki outcrop.

6. However the full extent of the ore bodies is not yet known and extension of the channel to the north may contain large potential ore reserves on the northern part of the Fuki outcrop.
7. At the western part of the Collier outcrop, some six (6) diamond drill holes were done. As a result of these drill holes, it was shown that the uraniferous beds extend at least 1000 feet southwest of the Collier outcrop.
8. Four (4) holes of the above mentioned six (6) cut the uraniferous sediments ranging from 3 feet to 6 feet in thickness and their grades vary from 0.01 to 0.06% eU. Additional extension will be expected to the south from the geological point of view.

2) Recommendation

The following further exploration is recommended:

Diamond Drilling Schedule, at two areas -

- 1) Northern area of the Fuki outcrop
- 2) Southwestern area of the Collier outcrop

The scale of this schedule will be discussed by the company.

Respectfully submitted,

Kiyoshi Kikuchi, B.Sc.
Senior Geologist
Power Reactor and Nuclear
Fuel Development Corporation.

Vancouver, B.C.
July 22, 1971.

STATEMENT OF QUALIFICATIONS

I, Kiyoshi Kikuchi of Tokyo, Japan, hereby certify that:

1. I am a graduate of the Niigata University, Japan (E.Sc., Geology and Mineralogy, 1954).
2. I am a member of The Geological Society of Japan, of The Society of Mining Geologists of Japan, of The Atomic Energy Society of Japan and of The Tokyo Geographical Society of Japan.
3. I have been practising my profession continuously for the past seventeen years and working for the Power Reactor and Nuclear Fuel Development Corporation as senior geologist.
4. I have no direct or indirect interest in the property, nor do I anticipate receiving any such interest.
5. The original data of this report is based on my personal study and work at the property during the period May 23 to July 10, 1971.

Kiyoshi Kikuchi

Vancouver, B.C.

July 22nd, 1971.

STATEMENT OF EXPENSES

I, Kiyoshi Kikuchi, B.Sc., Managing Geologist of the work, hereby certify that my expenses for the work described in this report are as follows:

<u>Name of Group</u>	<u>Diamond Drilling</u>	<u>Bulldozer Trenching</u>	<u>Road Construction or Drill Machine Moving</u>	<u>Total</u>
FUKI	\$18,588.45	\$ Nil	\$ 940.35	\$19,528.80
COLLIER	12,245.18	Nil	313.45	12,558.63
DEAR	Nil	1,936.17	Nil	1,936.17
CUP	Nil	Nil	1,764.20	1,764.20
<hr/>				
	\$30,833.63	\$1,936.17	\$3,018.00	\$35,787.80
<hr/> <hr/>				

The detailed breakdown is in the following pages.

Kiyoshi Kikuchi
Kiyoshi Kikuchi, B.Sc.

Vancouver, B.C.

July 22, 1971.

EXPENSES FOR EACH GROUP

Name of Group	Share	Subtotal of		Bulldozer Charge	Number of Holes	Diamond Drilling (= \$8.51/foot)			
		1) Wages & Salaries	2) Consultant's Fee			3) Living Expenses	4) Car Rental & Gas	Share	Total Footage
FUKI	40%	1,819.65		30%	940.35	11	1,969	16,768.80	19,528.80
COLLIER	20%	909.83		10%	313.45	6	1,331	11,335.35	12,558.63
DEAR	15%	682.37		40%	1,253.80	Nil	Nil	Nil	1,936.17
CUP	25%	1,137.30		20%	626.90	Nil	Nil	Nil	1,764.20
Grand Total		\$4,549.15			\$3,134.50	17	3,300'	\$28,104.15	\$35,787.80

SHARE OF EXPENSES FOR THE WORK

	Total*	Drilling (FUKEI) (COLLIER)	Trenching (DEAR)	Road Construction (CUP)
1. Wages & Salaries	2,920.00	1,752.00 (60%)	438.00 (15%)	730.00 (25%)
2. Consultant Fee	300.00	180.00 (60%)	45.00 (15%)	75.00 (25%)
3. Living Expenses	763.96	458.37 (60%)	114.59 (15%)	191.00 (25%)
4. Car Rental & Gas	565.19	339.11 (60%)	84.78 (15%)	141.30 (25%)
Sub Total	4,549.15	2,729.48	682.37	1,137.30
5. Bulldozer Charge	3,134.50	1,253.80 (40%)	1,253.80 (40%)	626.90 (20%)
6. Diamond Drilling Charge	28,104.15	28,104.15 (100%)	Nil (0%)	Nil (0%)
Grand Total	\$35,787.80	\$32,087.43	\$1,836.17	\$1,764.20

* See the following page for details.

EXPENSES FOR THE WORK

		Receipt No.
1. Wages and Salaries	\$ 2,920.00	
1. K. Kikuchi @ \$50 x 50 days =	\$2,500.00	
2. H.O. Thomas @ \$30 x 4 days =	120.00	1
3. Consultant's assistant fee =	300.00	2
2. Consultant's Fee	300.00	3
3. Living Expenses	763.96	4
4. Car Rental & Gas	565.19	
1. Car Rental	\$ 420.00	5, 6
2. Gas	145.19	7
<hr/>		
Sub Total	\$ 4,549.15	
5. Bulldozer charge	3,134.50	8
6. Diamond Drilling charge	28,104.15	9-1 - 9-4
<hr/>		
Grand Total	\$35,787.80	
<hr/> <hr/>		

No. _____ June 18 1971
Received from Kiyoshi Kikuchi
Sixty $\frac{00}{100}$ Dollars
cents
\$ 60. $\frac{00}{100}$ MADE IN B.C. H. O. Thomas

No. _____ July 9 1971
Received from Kiyoshi Kikuchi
Sixty $\frac{00}{100}$ Dollars
cents
\$ 60. $\frac{00}{100}$ MADE IN B.C. H. O. Thomas

TORU KIKUCHI, Ph.D., P.Eng.
CONSULTING GEOLOGICAL ENGINEER

Receipt No. 2

~~792x102 WEST PENDER ST VANCOUVER B.C. CANADA~~

1374 Park Dr.,
Vancouver 14, B.C.
June 3, 1971

Mr. Kiyoshi Kikuchi, Geologist
Power Reactor and Nuclear Fuel
Development Corporation,
Swiss Inn and Motel,
Rock Creek, B.C.

Dear Mr. Kikuchi,

This is a receipt of your full payment of
\$300.00 for my Statement No.077102 dated June 3, 1971,
which is to our services of an field assistant; 10 days
(May 25 - June 4, 1971) at \$30.00 per day.

Yours very truly,



Toru Kikuchi, P.Eng.

Receipt No. 4

SWISS INN & MOTEL	
PHONE 446-2234	ROCK CREEK, B.C.
DATE	7-12-71
RECEIVED FROM	<i>Mr. Kitchi</i>
RENTAL UNIT NO.	7 or units
FOR	DAYS AT \$ 7.35
\$ 763.94	5700
THANK YOU	

Tel. 372-8632

Telex: 048-748

FORM NO. 190

TILDEN
rent-a-car

TILDEN RENT-A-CAR SERVICE

KAMLOOPS U-DRIVE LTD.
453 LANSDOWNE STREET
KAMLOOPS, B.C.

Rental No. 98-67020

Date June 17/71

Tilden Courtesy
or Charge Card No.

Your Order No.

Driver Kiyoshi Kikuchi

Dept.

POWER REACTOR & NUCLEAR FUELS
c/o KIYOSHI KIKUCHI
SWISS INN MOTEL
ROCK CREEK, B.C.

This Invoice Confirms Rental Agreement Issued Under Above Number.

DETAILS			
Make of ^{Cox} Truck	G.M.C. Type Jimmy 4x4	No. CBJ-462	
Mileage in	20568	Time in	June 6/71 2:30 p.m.
Mileage out	18806	Time out	May 21/71 2:30 p.m.
	1762 Miles @	c. \$	N.C.
Time charge	16 pro-rated days @ 13.34	c.	213.44
	5% B.C. TAX		10.67
Damage			
TOTAL CHARGES			224.11

As Tilden has changed ownership as of June 7/71. The pro-rated days will be taken into consideration on your June 6 - 21st billing so you will still be paying \$400.00 a month.

Sorry about putting the wrong name on your last letter!

V. m. de Bruyn

Receipt No. 5

Receipt No. 6

Tel. 372-8632

Telex: 048-748

FORM NO. 190

TILDEN
rent-a-car

TILDEN RENT-A-CAR SERVICE



453 LANSDOWNE STREET
KAMLOOPS, B.C.

SYSTEM

Rental No. 98-67020

Date June 24/67

Tilden Courtesy
or Charge Card No.

Your Order No.

Driver Kiyoshi Kikuchi

Dept.

Power Reactor & Nuclear Fuels
c/o KIYOSHI KIKUCHI
SWISS INN MOTEL
ROCK CREEK, B.C.

This Invoice Confirms Rental Agreement Issued Under Above Number.

DETAILS				
Make of ^{Car} _{Truck} G.M.C.	Type Jimmy 4x4	No. CBJ-462		
Mileage in --	Time in June 21 2:30 p.m.			
Mileage out 20568	Time out June 6 2:30 p.m.			
Miles @	c. \$	N.C.		
		186.56		
Time charge @	c.	205.44		
This billing with the June 17th billing total the 400.00 per month as per original agreement.				
Damage				
5% B.C. TAX		9.33		
TOTAL CHARGES		195.89		

ROCK CREEK ENTERPRISES LTD.

ROCK CREEK SERVICE
ROCK CREEK
B.C.



GOLD DUST MOTEL
L & M DODDS
TELEPHONE 446-2222

NAME R. K. KUCHI DATE July 10 1971

ADDRESS

QUAN.	DESCRIPTION	PRICE	AMOUNT
	June 1		40 05
	June 17		53 69
	July 2		33 75
	July 10		17 70
<i>Paid</i>			
REC'D BY <i>Harbo</i>			TAX
			TOTAL 145.19
CLERK	CASH	C.O.D.	C.HARGE
			ON ACCT.
			MOSE. RETD.
			PAID OUT

2259

VAL McDONALD LTD., GREENWOOD, B.C., W14062

1% PER MONTH WILL BE CHARGED ON OVERDUE ACCOUNTS

No. _____ June 18 1971

Received from Kiyoshi Kikuchi

One Thousand Eight Hundred Seventy $\frac{50}{100}$ Dollars

Lat. work.

\$1,870. $\frac{50}{100}$ MADE IN B.C. H. O. Thomas

No. _____ July 9 1971

Received from Kiyoshi Kikuchi

One Thousand Two Hundred & Sixty Four $\frac{00}{100}$ Dollars

Lat. work

\$1,264. $\frac{00}{100}$ MADE IN B.C. H. O. Thomas

155 West 3rd Avenue
Vancouver 10, B.C., Canada

Receipt No. 9-1

DATE JUNE 8 1971

INVOICE NO. 464 - 459

POWER REACTOR AND NUCLEAR FUEL DEVELOPMENT CORP.

c/o NISSHO-IWAI CANADA LTD.
#801 - 1111 West Hastings Street
VANCOUVER 1, B. C.

IN ACCOUNT WITH



SURFACE DIAMOND DRILLING, WESTBRIDGE, B.C.
MAY 27-31, 1971

FOOTAGE FEE

D.D. Hole # 24 0' - 147' = 147'
25 0' - 108' = 108'
255' @ 7.75

1,976.25

MOVING FROM HOLE # 24 to HOLE #25

May 31/71 Day Shift 18 Man Hours @ 7.00
9 Drill Hours @ 7.50

126.00
67.50

193.50

CORE BOXES

100 BQWL Core Boxes @ 2.60

5% TAX

260.00
13.00

273.00

\$2,442.75

Rec'd Payment

COPIES MAILED TO: 3 Copies to:
Mr. Kiyoshi Kikuchi
c/o Swiss Inn & Motel
Rock Creek, B. C.
1 Copy to:
Mr. M. Morimoto
c/o Nissho-Iwai Canada

155 West 3rd Avenue
Vancouver 10, B.C., Canada

DATE June 21 1971

INVOICE NO. 7 - 459

POWER REACTOR & NUCLEAR FUEL DEVELOPMENT CORP.
% NISSHO - IWAI CANADA LTD.
801 - 1111 WEST HASTINGS STREET
VANCOUVER 1, B. C.

IN ACCOUNT WITH



SURFACE DIAMOND DRILLING, WESTBRIDGE, B. C.
JUNE 1 - 15, 1971

FOOTAGE FEE

D. D. Hole #	25	108'	-	152'	-	44'
	28	0'	-	152'	-	152'
	29	0'	-	212'	-	212'
	26	0'	-	152'	-	152'
	27	0'	-	167'	-	167'
	30	0'	-	153'	-	153'
	31	0'	-	222'	-	222'
	32	0'	-	228'	-	228'
	33	0'	-	202'	-	202'
	34	0'	-	138'	-	138'

1,670' @ 7.75

12,942.50

FIELD COSTS

<u>DATE</u>	<u>MAN HOURS</u>	<u>DRILL HOURS</u>	<u>REMARKS</u>
June 1/71	6	3	Moving from Hole # 25 to 28
2/71	8	4	Waiting to move.
3/71	6	3	Moving from Hole # 28 to 29
5/71 Day	4	2	Cementing Hole # 29
5/71 Night	14	7	Re-Drilling Cement 30' - 139'
6/71	6	3	Moving from Hole # 29 to 26
7/71	7	3½	Moving from Hole # 26 to 27
7/71	5	2½	Waiting for engineer
9/71	12	6	Moving from Hole # 27 to 30
10/71	8	4	Moving from Hole # 30 to 31
10/71	2	1	Hole Testing
12/71	8	4	Moving from Hole # 31 to 32
14/71	10	5	Moving from Hole # 32 to 33
15/71	6	3	Moving from Hole # 33 to 34
	<u>102</u>	<u>51</u>	

Total Man Hours 102 @ 7.00
Total Drill Hours 51 @ 7.50

714.00
382.50

1,096.50

(2)

June 21, 1971

POWER REACTOR AND NUCLEAR FUEL DEVELOPMENT CORP.

Inv. 7 - 459

SUPPLIES CONSUMED

3	Bags	Cal - Seal Cement	@ 11.50	34.50	
3	Pieces	BW - 2" Casing	@ 11.00	33.00	
1	BW	Casing Shoe # 1044		<u>97.25</u>	
				164.75	
			5% Tax	<u>8.24</u>	<u>172.99</u>
					14,211.99

COPIES MAILED TO: 3 Copies to:
 Mr. Kiyoshi Kikuchi
 c/o Swiss Inn & Motel
 Rock Creek, B. C.

1 Copy to:
 Mr. M. Morimoto
 c/o Nissho - Iwai Canada

155 West 3rd Avenue
Vancouver 10, B.C., Canada

DATE JULY 5 1971

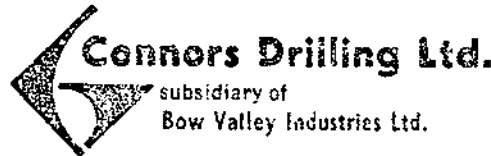
INVOICE NO. 26 - 459

POWER REACTOR & NUCLEAR FUEL DEVELOPMENT CORP.

c/o Nissho - Iwai Canada Ltd.
801 - 1111 West Hastings Street

VANCOUVER 1. B. C.

IN ACCOUNT WITH



SURFACE DIAMOND DRILLING, WESTBRIDGE, B.C.
JUNE 16-26, 1971

FOOTAGE FEE

D.D. Hole #	34	138'	-	182'	=	44'
	35	0'	-	203'	=	203'
	36	0'	-	148'	=	148'
	37	0'	-	162'	=	162'
	38	0'	-	258'	=	258'
	39	0'	-	232'	=	232'
	40	0'	-	328'	=	328'
						<u>1375'</u> @ 7.75

10,656. 25

FIELD COSTS (Moving & Hole Testing)

DATE	MAN HRS.	DRILL HRS.	REMARKS
June 17	16	4	4 Men Moving from Hole #34 - 35
18	8	4	Moving from 35 - 36
"	8	4	Waiting for Cat
19	2	1	Hole Testing
"	8	4	Moving from 36 - 37
20	6	3	Hole Testing
"	6	3	Moving from 37 - 38
24	6	3	Moving from 38 - 39
25	6	3	Moving from 39 - 40
	<u>66</u>	<u>29</u>	

Total Man Hours 66 @ 7.00
Total Drill Hours 29 @ 7.50

462. 00
217. 50
679. 50

SUPPLIES LOST IN HOLE # 39

1 piece BW 2' Casing
1 BW Casing Shoe # 1198

11. 00
97. 25
108. 25
5. 43
113. 68

5% TAX

\$11,449. 41

LOG AND PROBE SHEET

Hole No. *B.C.F. 29*

Location : *FUKI 3*

Total Depth: *212' (40)*

Hole Angle : *Vertical*

Core Size : *B.G.*

Detector : *Geiger G.P. 27 (Made by Nippon Musen)*

Monitor : *T.C.S. 603 R (Made by Nippon Musen)*

Background : *30 count per minute (c.p.m.)*

Time Constant: *3-second*

Date *June 6, 1971*

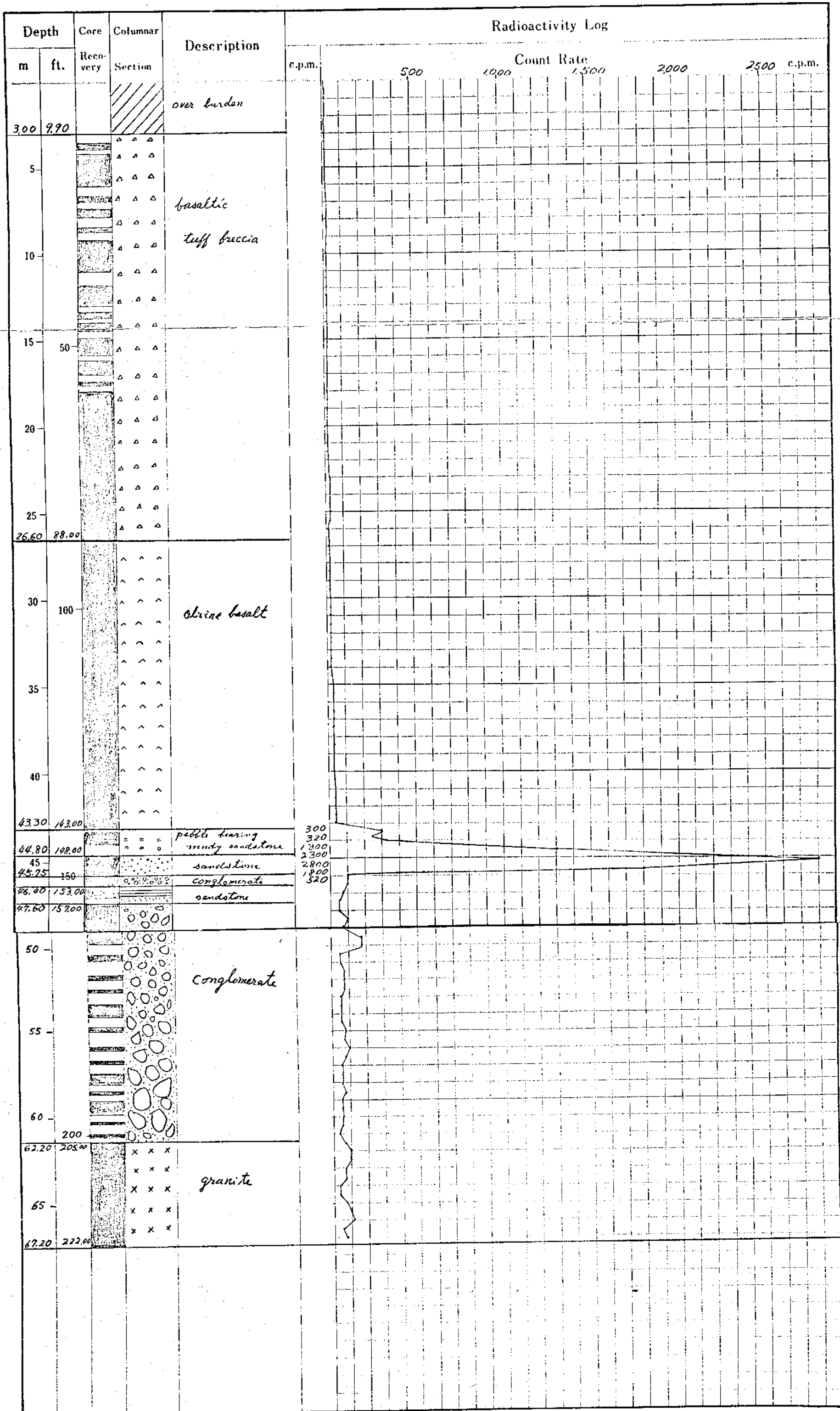
Logged and Probed by *K. Kikuchi*

Depth		Core Recovery	Columnar Section	Description	Radioactivity Log					
m	ft.				c.p.m.	Count Rate				
					200	400	600	800	1000	
1.90	6.00		//	over burden						
3.90	13.00		^ ^ ^	olivine basalt						
5			Δ Δ Δ	basaltic tuff breccia						
7.30	25.00		Δ Δ Δ							
10			^ ^ ^	olivine basalt						
15	50		^ ^ ^							
20			^ ^ ^							
20.60	68.00		Δ Δ Δ	basaltic tuff breccia						
22.70	75.00		Δ Δ Δ							
25			^ ^ ^	olivine basalt						
30			^ ^ ^							
31.50	104.00		^ ^ ^							
34.50	114.00		Δ Δ Δ	basaltic tuff breccia						
35			^ ^ ^	olivine basalt						
40			^ ^ ^							
45	140.00		^ ^ ^							
45.40	150		Δ Δ Δ	basaltic tuff breccia						
47.50	158.00		Δ Δ Δ							
50			○ ○ ○	Conglomerate	120	260	140			
55			○ ○ ○		160					
58.80	194.00		○ ○ ○		300	380	180			
60			x x x	granite						
64.40	212.4		x x x							
65			x x x							
70										

LOG AND PROBE SHEET

Hole No. *B.C.F. 31*
 Location : *FUKI 5*
 Total Depth: *222.00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

Detector : *Geiger G.P.27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603R (Made by Nippon Musen)*
 Background : *20 count per minute (c.p.m.)*
 Time Constant: *3-second*
 Date : *June. 12, 1971*
 Logged and Probed by *K. Kikuchi*



LOG AND PROBE SHEET

Hole No. *B.C.F. 32*

Detector : *Geiger G.P. 27 (Made by Nippon Musen)*

Location : *FUKI 5*

Monitor : *T.C.S. 603R (Made by Nippon Musen)*

Total Depth: *228.00*

Background : *40 count per minute (c.p.m.)*

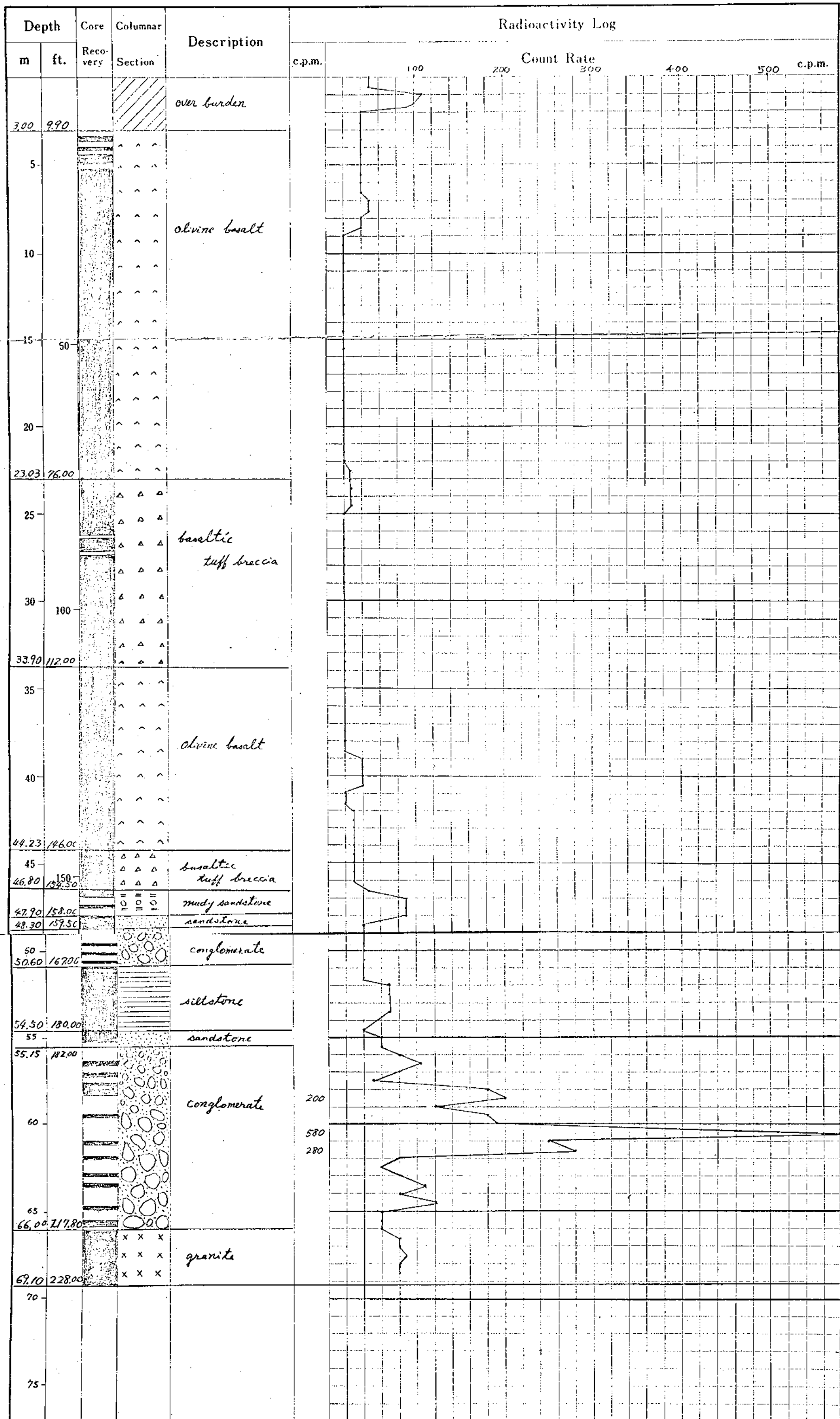
Hole Angle : *Vertical*

Time Constant: *3-second*

Core Size : *B.Q.*

Date *June 13, 1971*

Logged and Probed by *K. Kikuchi*



LOG AND PROBE SHEET

Hole No. B.C.F. 33

Location : FUKI 5

Total Depth: 202.00

Hole Angle : Vertical

Core Size : B.Q.

Detector : Geiger G.P.27 (Made by Nippon Musen)

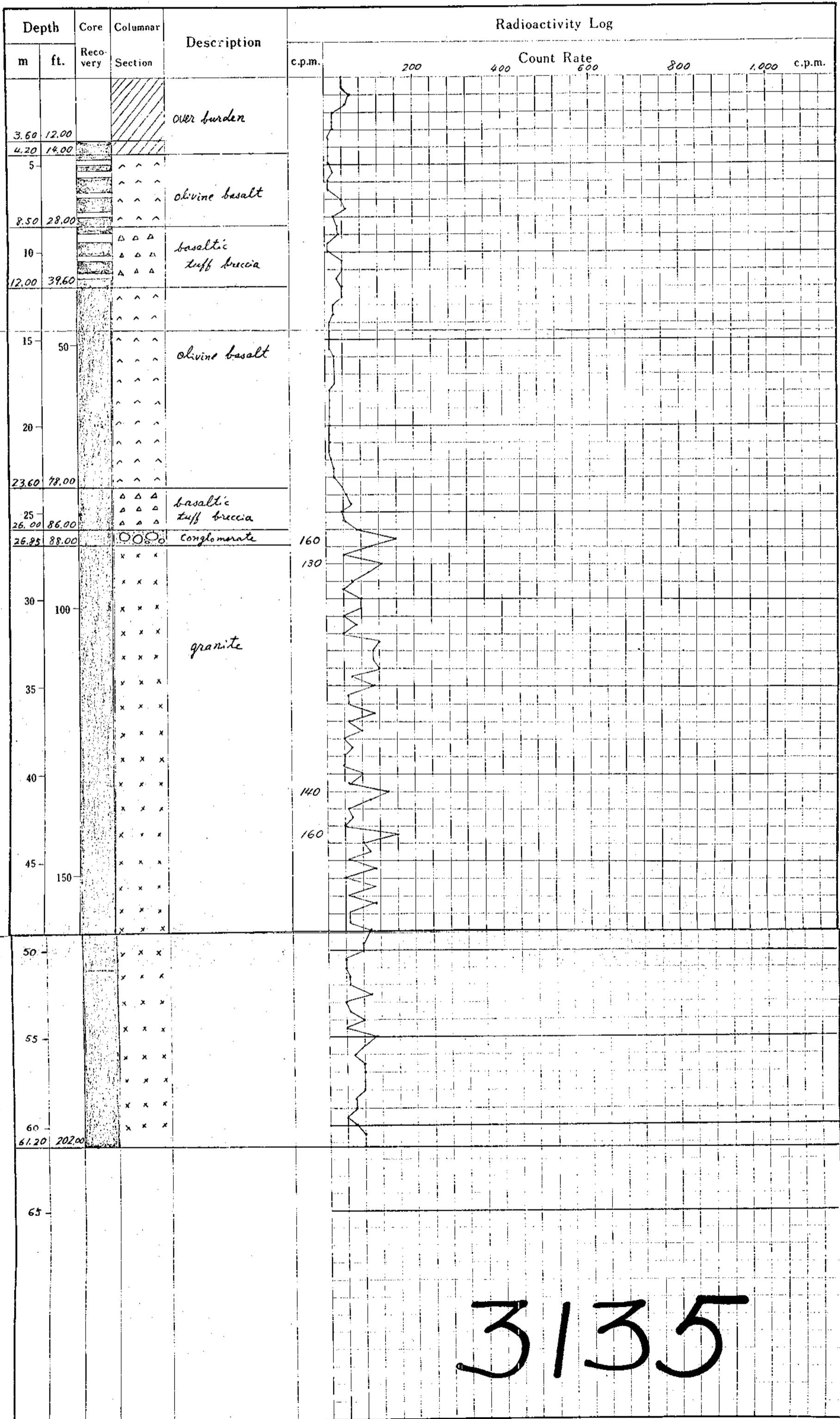
Monitor : T.C.S. 603 R (Made by Nippon Musen)

Background : 40 count per minute (c.p.m.)

Time Constant: 3-second

Date June 15, 1971

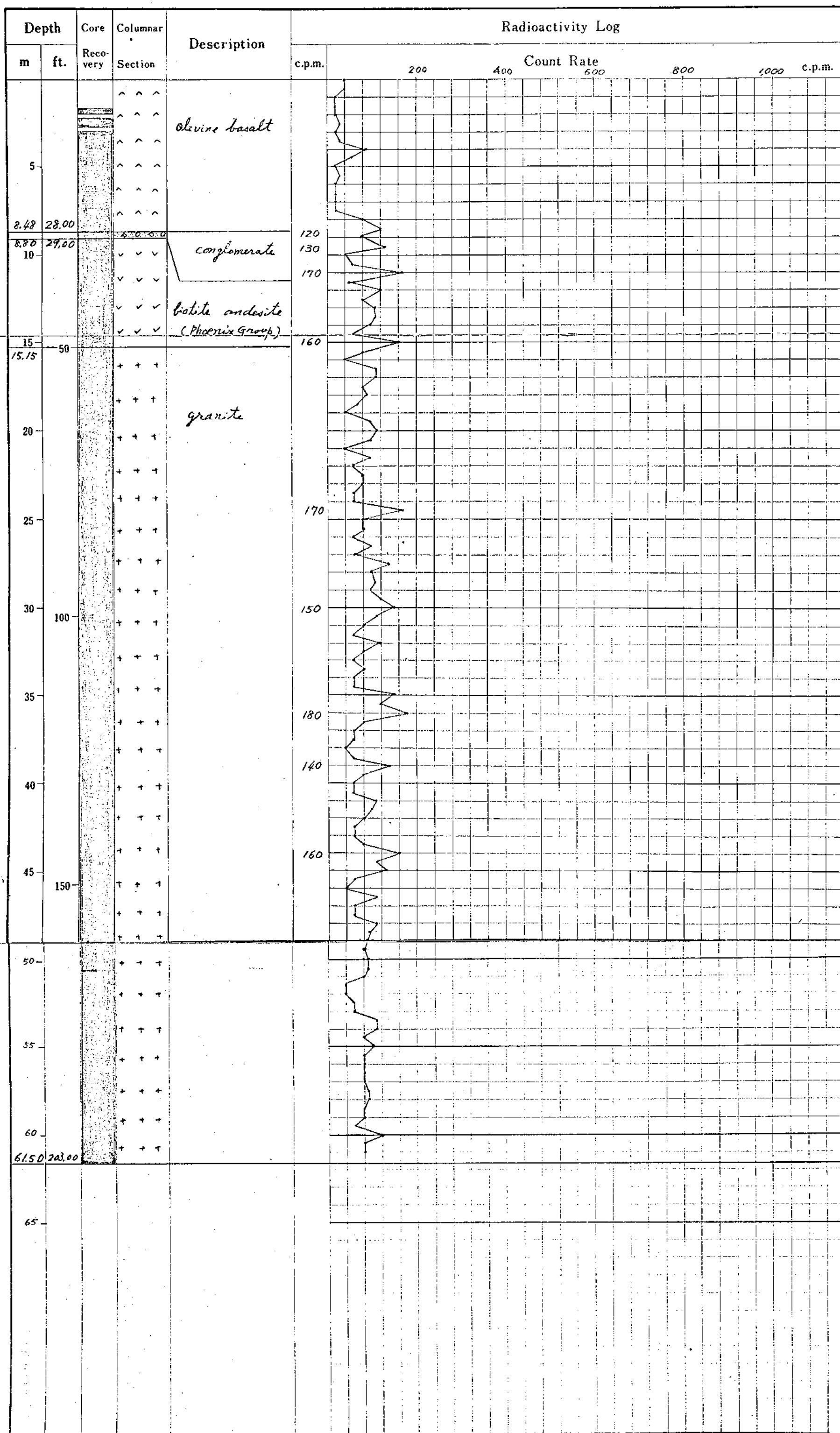
Logged and Probed by K. Kikuchi



LOG AND PROBE SHEET

Hole No. *B.C.F. 35*
 Location : *DONEN 93*
 Total Depth: *203.00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

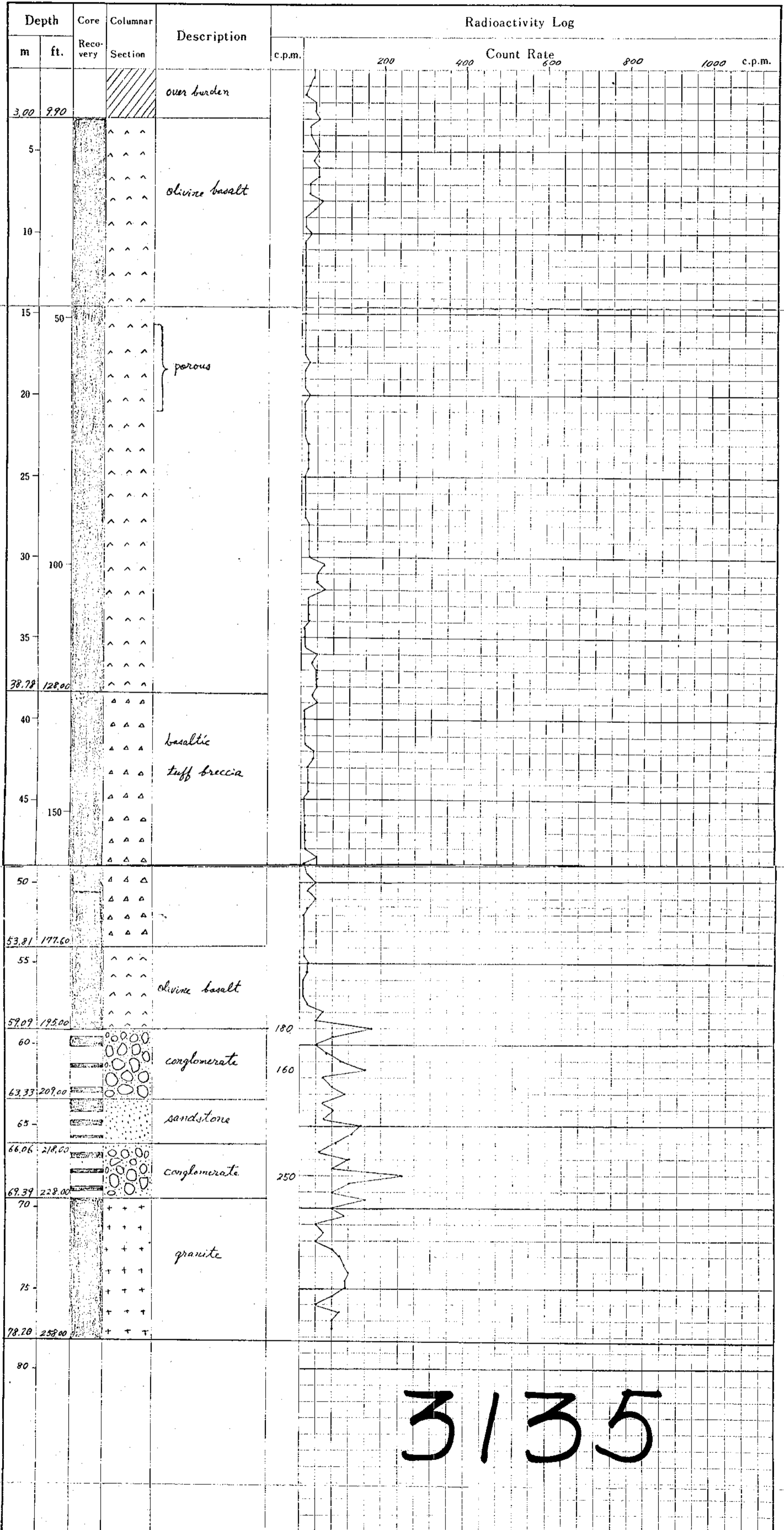
Detector : *Guiger G.P.27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603R (Made by Nippon Musen)*
 Background : *40 count per minute (c.p.m.)*
 Time Constant: *3-second*
 Date *June 18, 1971*
 Logged and Probed by *K. Kikuchi*



LOG AND PROBE SHEET

Hole No. *B.C.F. 38*
 Location : *DONEN 93*
 Total Depth: *258.00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

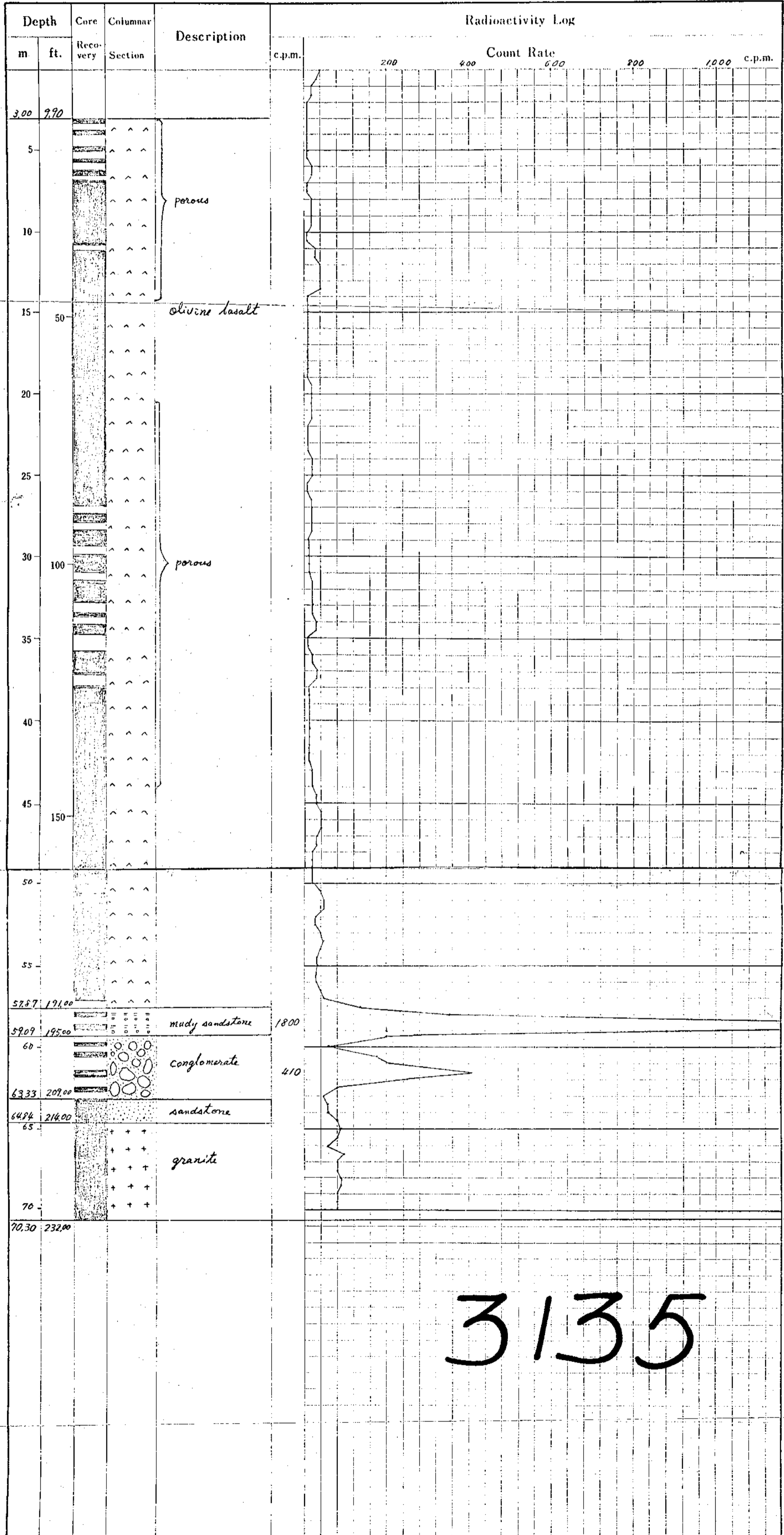
Detector : *Geiger G.P.27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603 (Made by Nippon Musen)*
 Background : *40 count per minute (C.P.M.)*
 Time Constant: *3-second*
 Date *June 24, 1971*
 Logged and Probed by *K. Kikuchi*

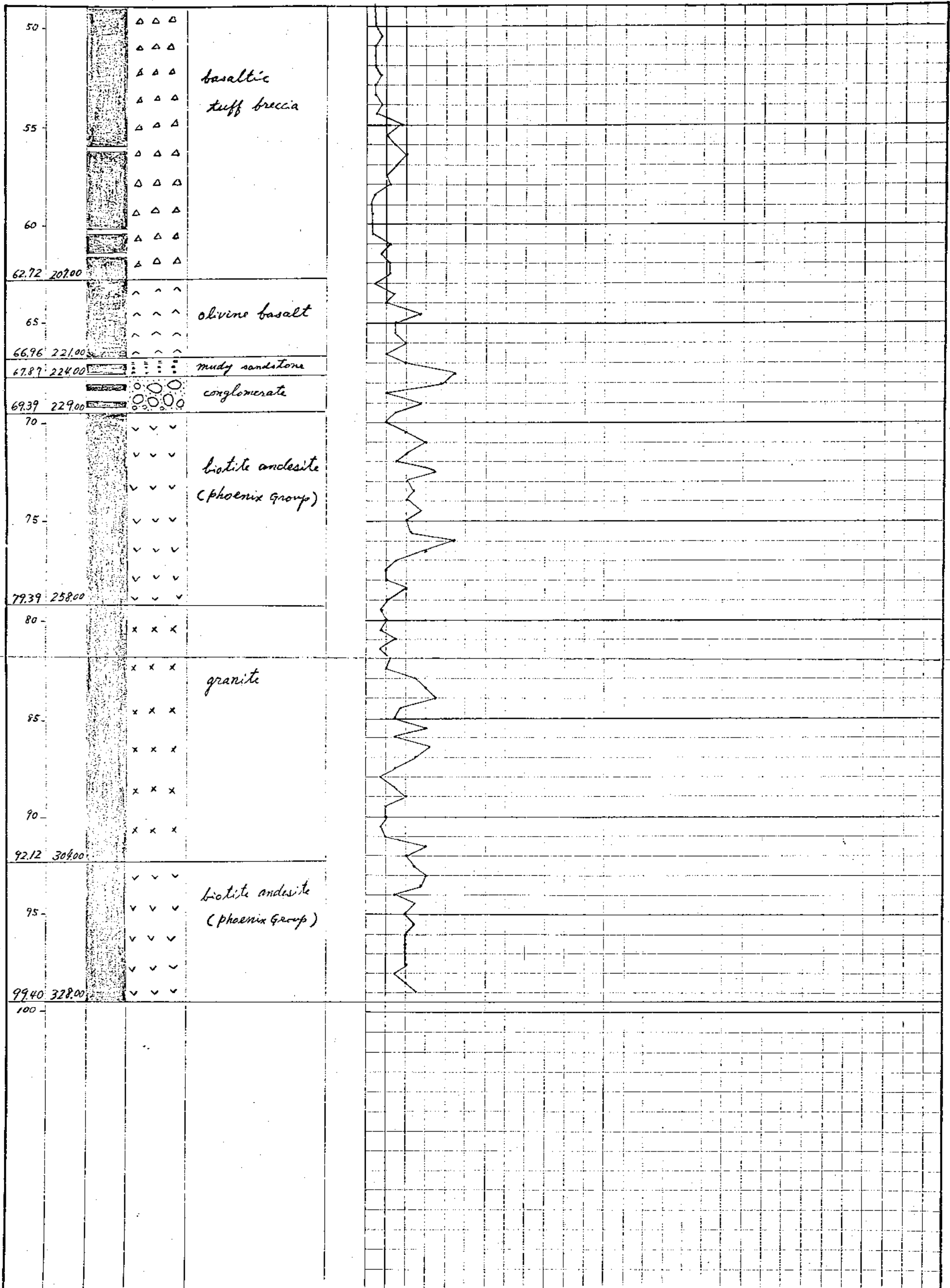


LOG AND PROBE SHEET

Hole No. : *B.C.F. 39*
 Location : *DONEN 93*
 Total Depth: *232'00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

Detector : *Guiger G.P.27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603R (Made by Nippon Musen)*
 Background : *20 count per minute (C.P.M.)*
 Time Constant: *3-second*
 Date : *June 25, 1971*
 Logged and Probed by *K. Kikuchi*

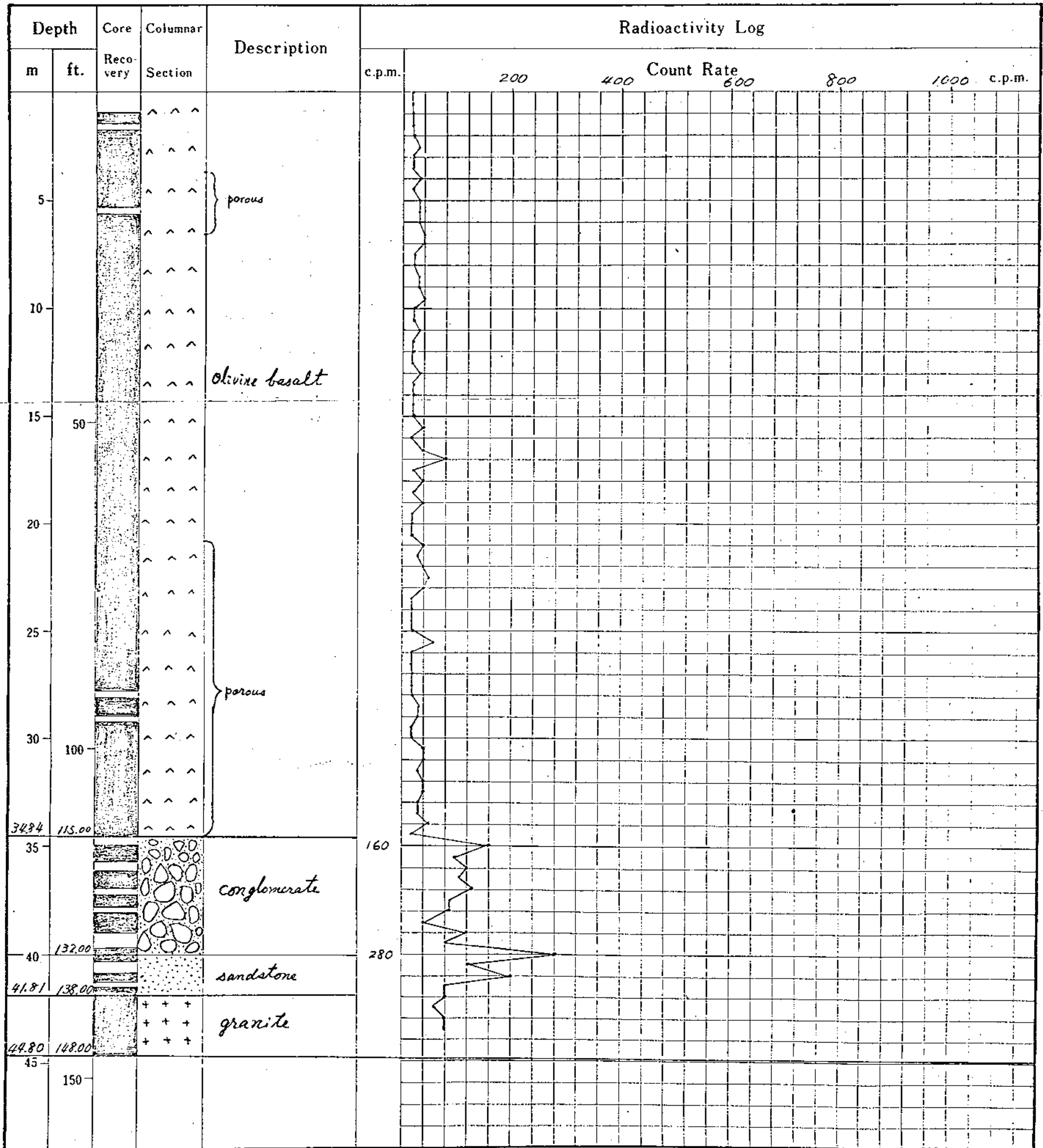




LOG AND PROBE SHEET

Hole No. *B.C.F. 36*
 Location : *DoNEN 93*
 Total Depth: *148'00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

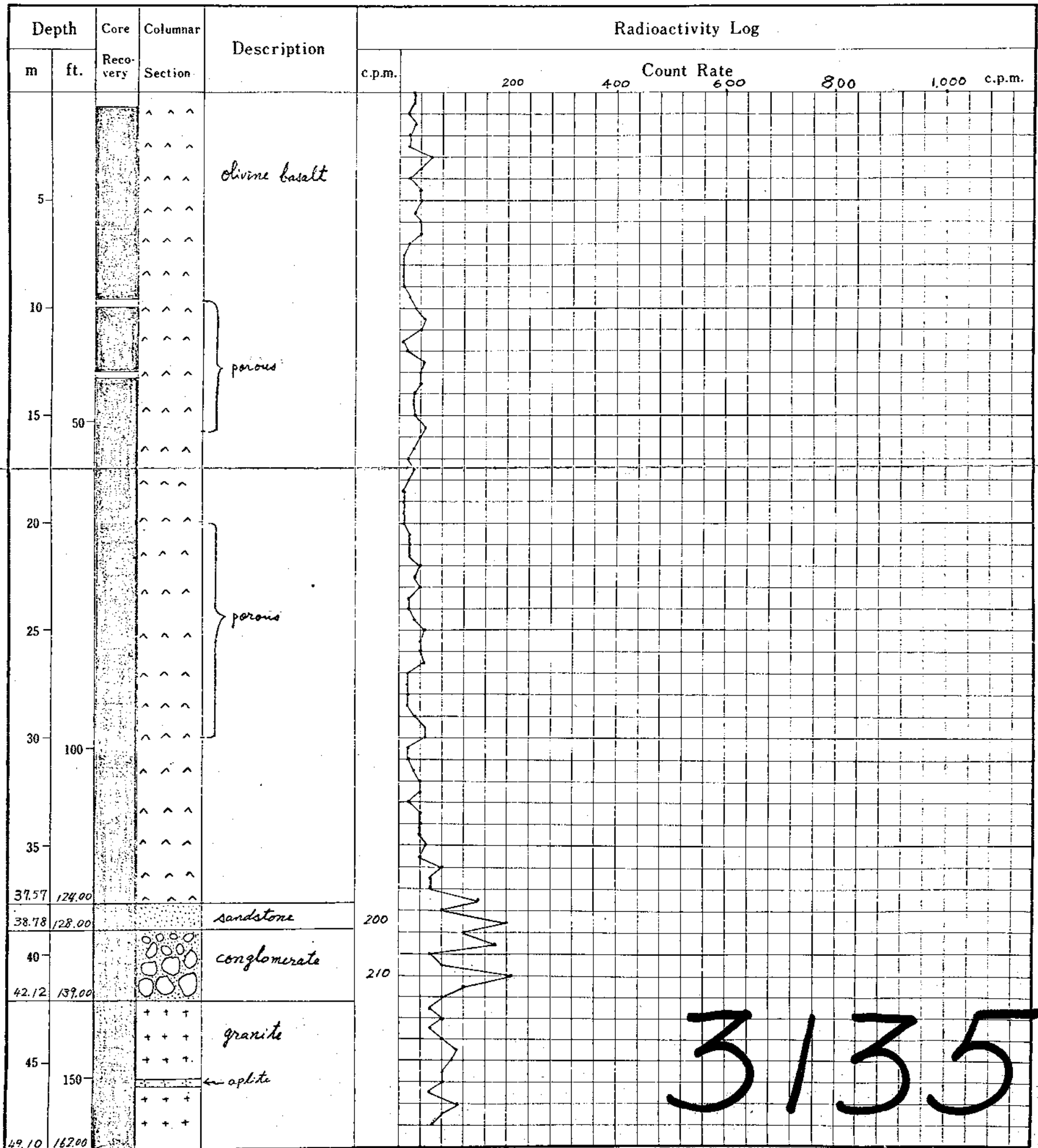
Detector : *Guiger G.P.27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603R (Made by Nippon Musen)*
 Background : *50 count per minute (C.P.M.)*
 Time Constant: *3-second*
 Date *June 19, 1971*
 Logged and Probed by *K. Kikuchi*



LOG AND PROBE SHEET

Hole No. *B.C.F. 37*
 Location : *DONEN 93*
 Total Depth: *162.00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

Detector : *Geiger G.P. 27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603 (Made by Nippon Musen)*
 Background : *30 count per minute (c.p.m.)*
 Time Constant: *3-second*
 Date *June 20, 1971*
 Logged and Probed by *K. Kisuuchi*



LOG AND PROBE SHEET

Hole No. B.C.F. 30

Location : FUKI 3

Total Depth: 153.00

Hole Angle : Vertical

Core Size : B.Q.

Detector : Guiger G.P. 27 (Made by Nippon Musen)

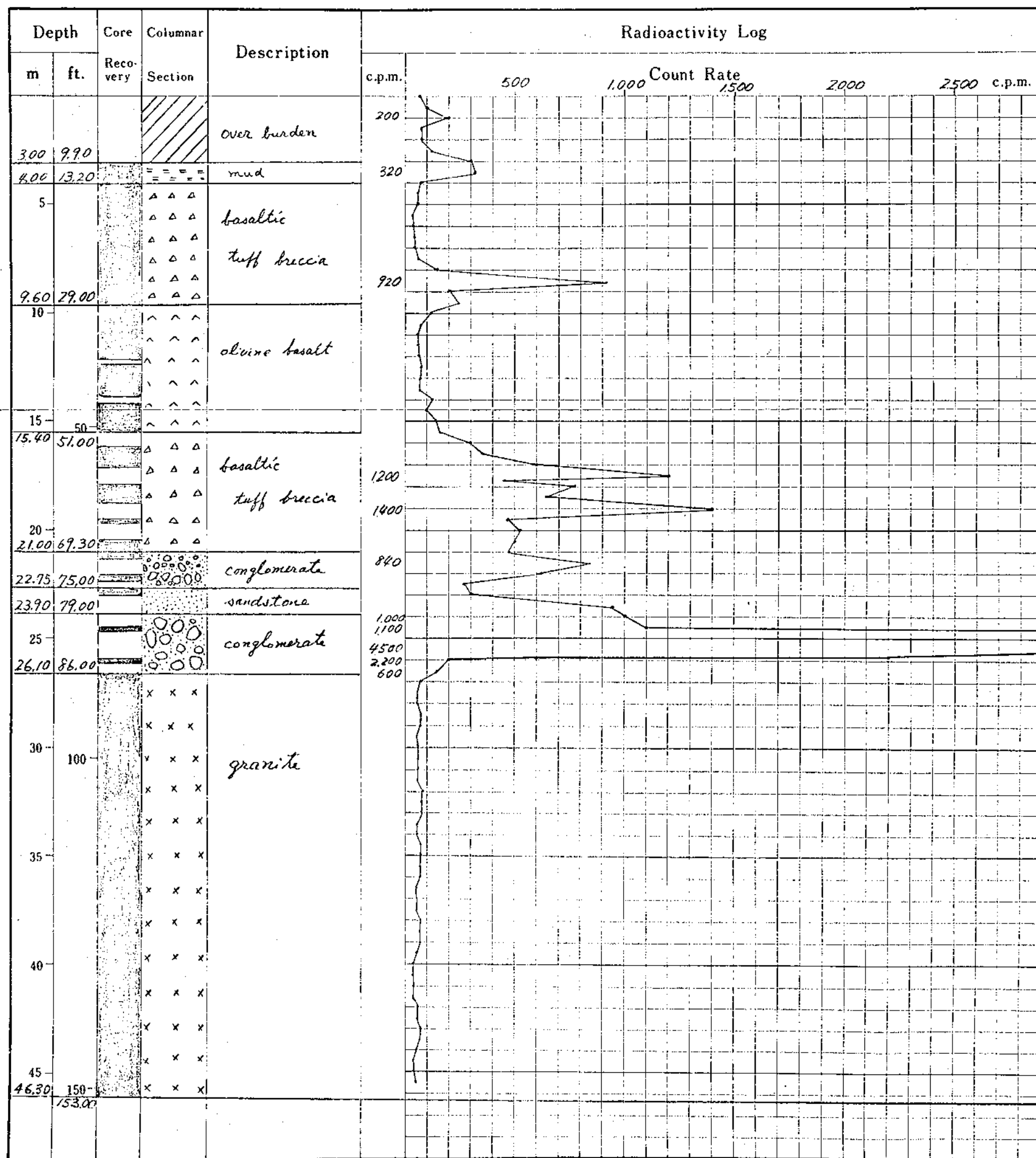
Monitor : T.C.S. 603 R (Made by Nippon Musen)

Background : 30 count per minute (c.p.m.)

Time Constant: 3-second

Date June 10, 1971

Logged and Probed by K. Kikuchi



LOG AND PROBE SHEET

Hole No. *B.C.F. 28*

Location : *FUKI 3*

Total Depth: *152' 00*

Hole Angle : *Vertical*

Core Size : *B. Q.*

Detector : *Guiger G.P. 27 (Made by Nippon Musen)*

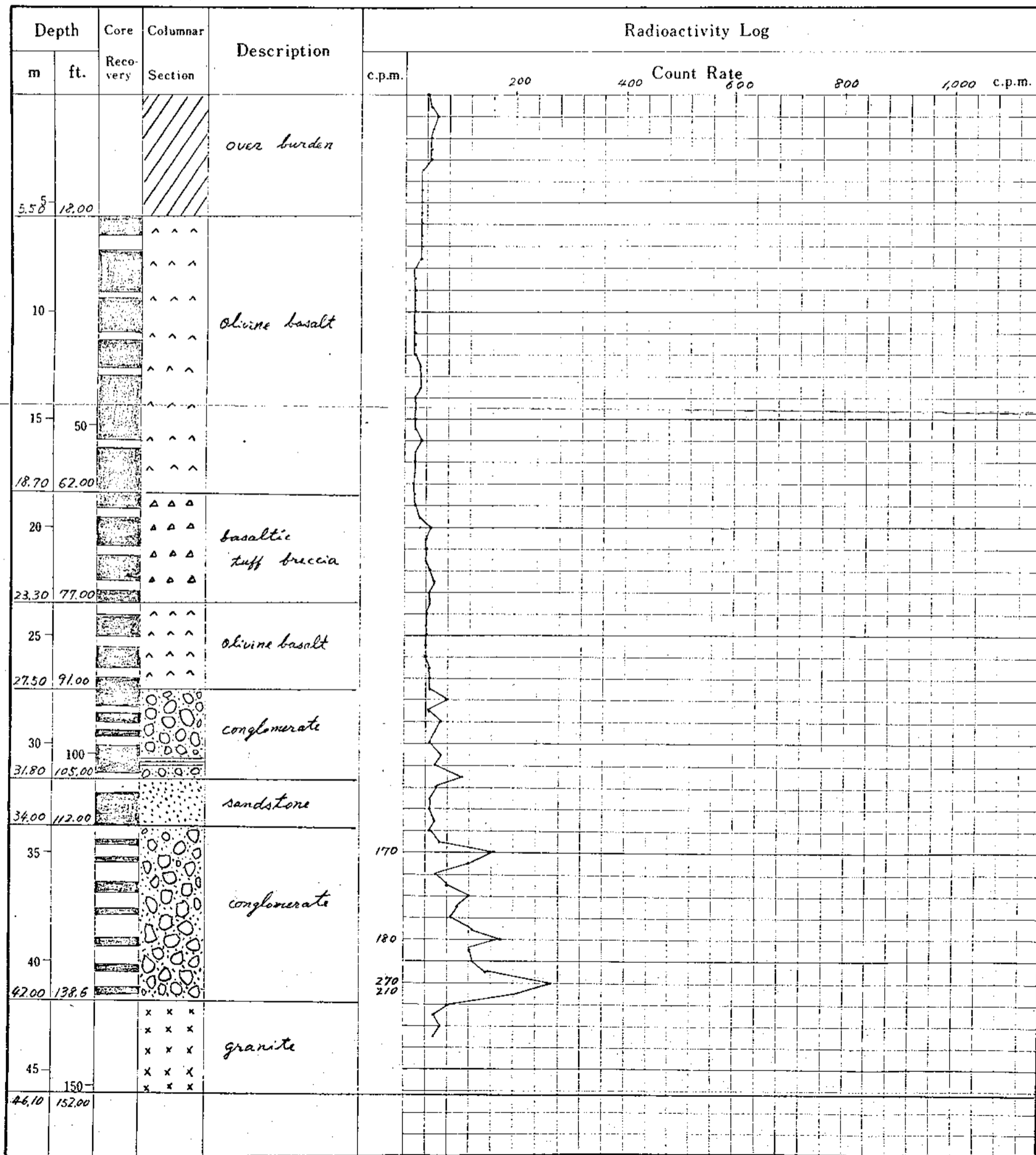
Monitor : *T.C.S. 603R (Made by Nippon Musen)*

Background : *40 Count per minute (C.P.M.)*

Time Constant: *3-second*

Date *June 2, 1971*

Logged and Probed by *K. Kikuchi*



LOG AND PROBE SHEET

Hole No. *B. C. F. 27*

Detector : *Guiger G.P.27 (Made by Nippon Musen)*

Location : *FUKI 3*

Monitor : *T.C.S. 603R (Made by Nippon Musen)*

Background : *40 count per minute (C.P.M.)*

Total Depth: *167.80*

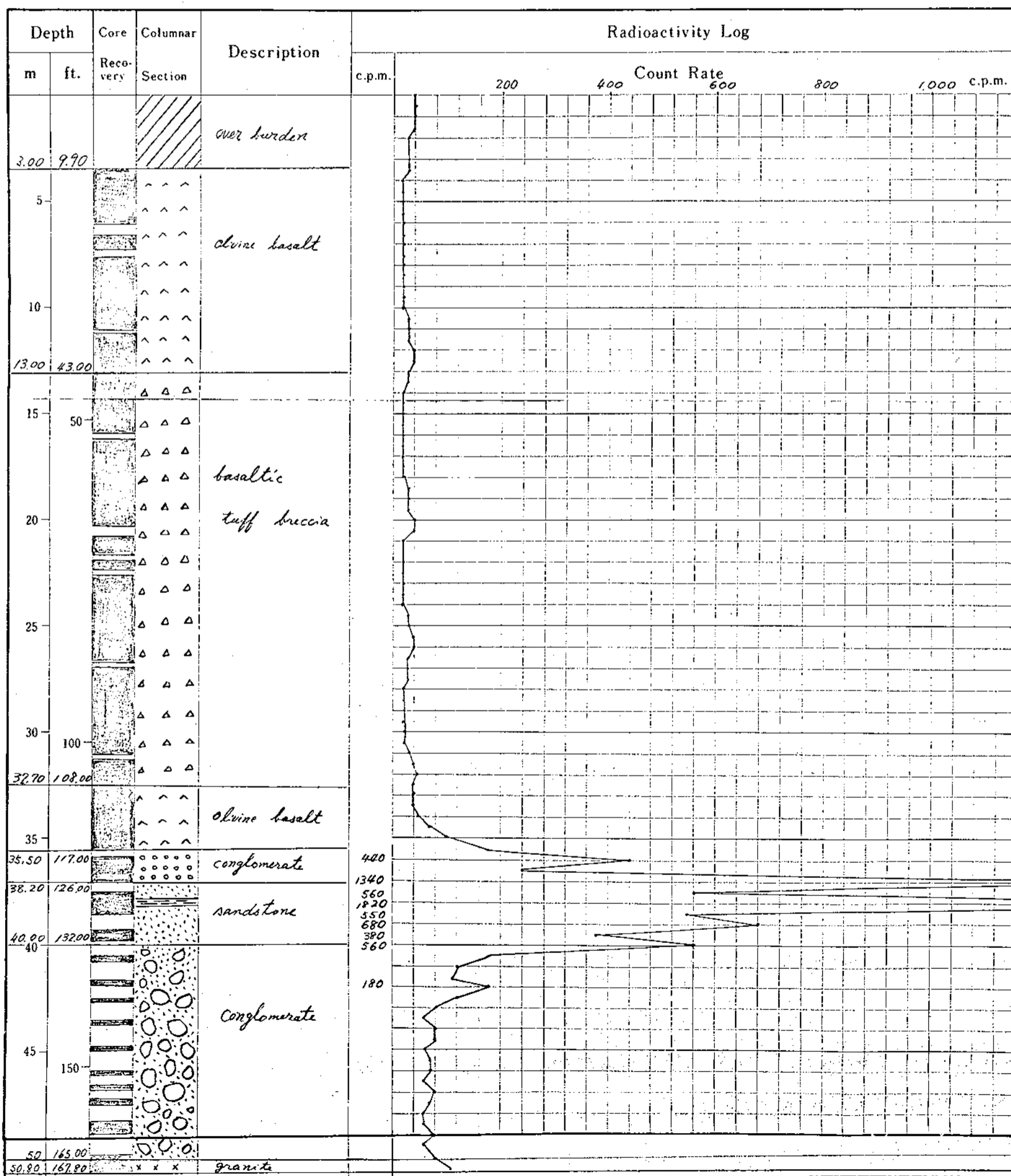
Time Constant: *3-second*

Hole Angle : *Vertical*

Date *June 8, 1971*

Core Size : *B. O.*

Logged and Probed by *K. Kikuchi*



LOG AND PROBE SHEET

Hole No. : B.C.F. 26

Location : FUKI 3

Total Depth: 152.00

Hole Angle : Vertical

Core Size : B.O.

Detector : Geiger G.P. 27 (Made by Nippon Museum)

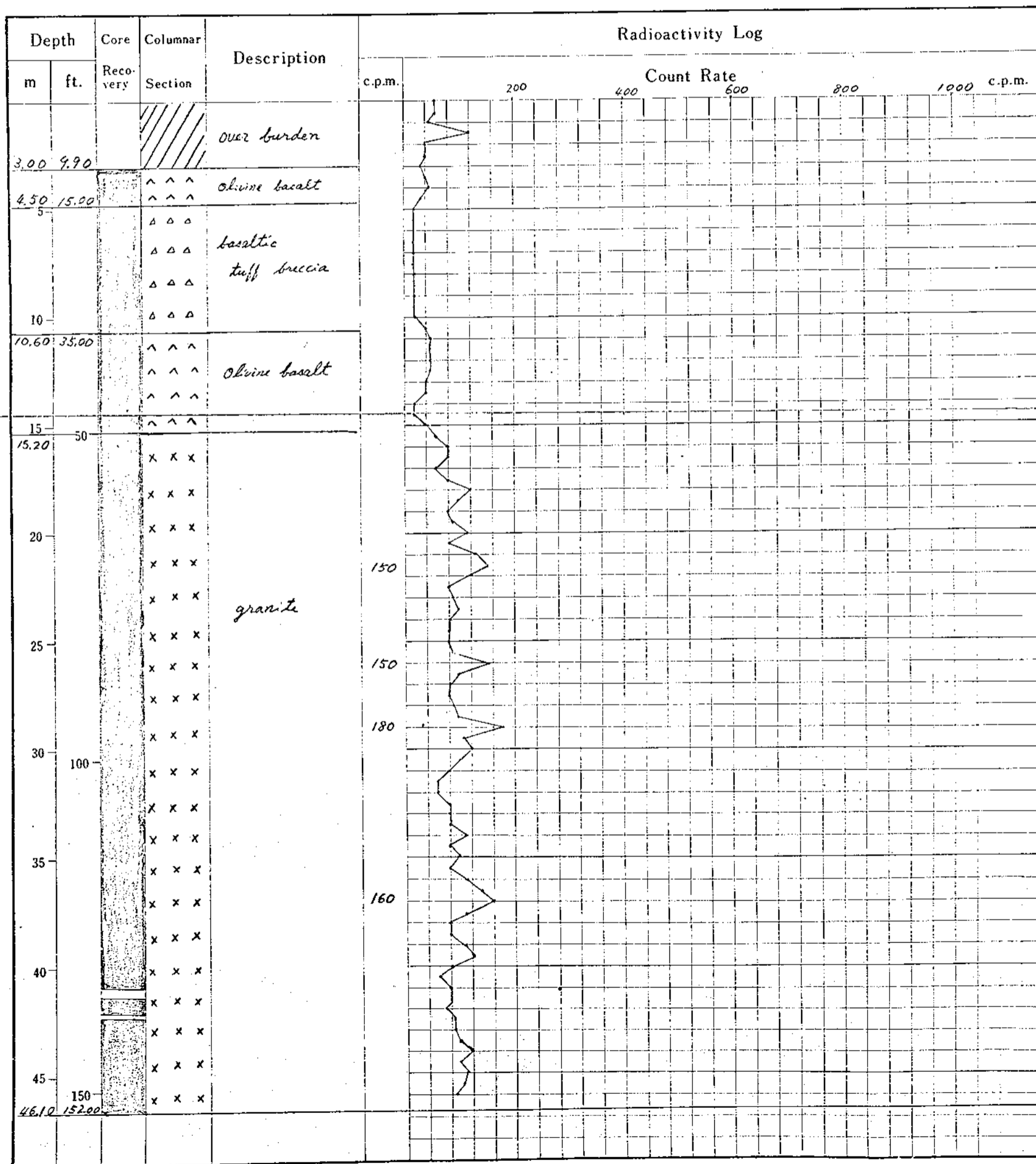
Monitor : T.C.S. 603R (Made by Nippon Museum)

Background : 50 count per minute (c.p.m.)

Time Constant: 3-second

Date : June 7, 1971

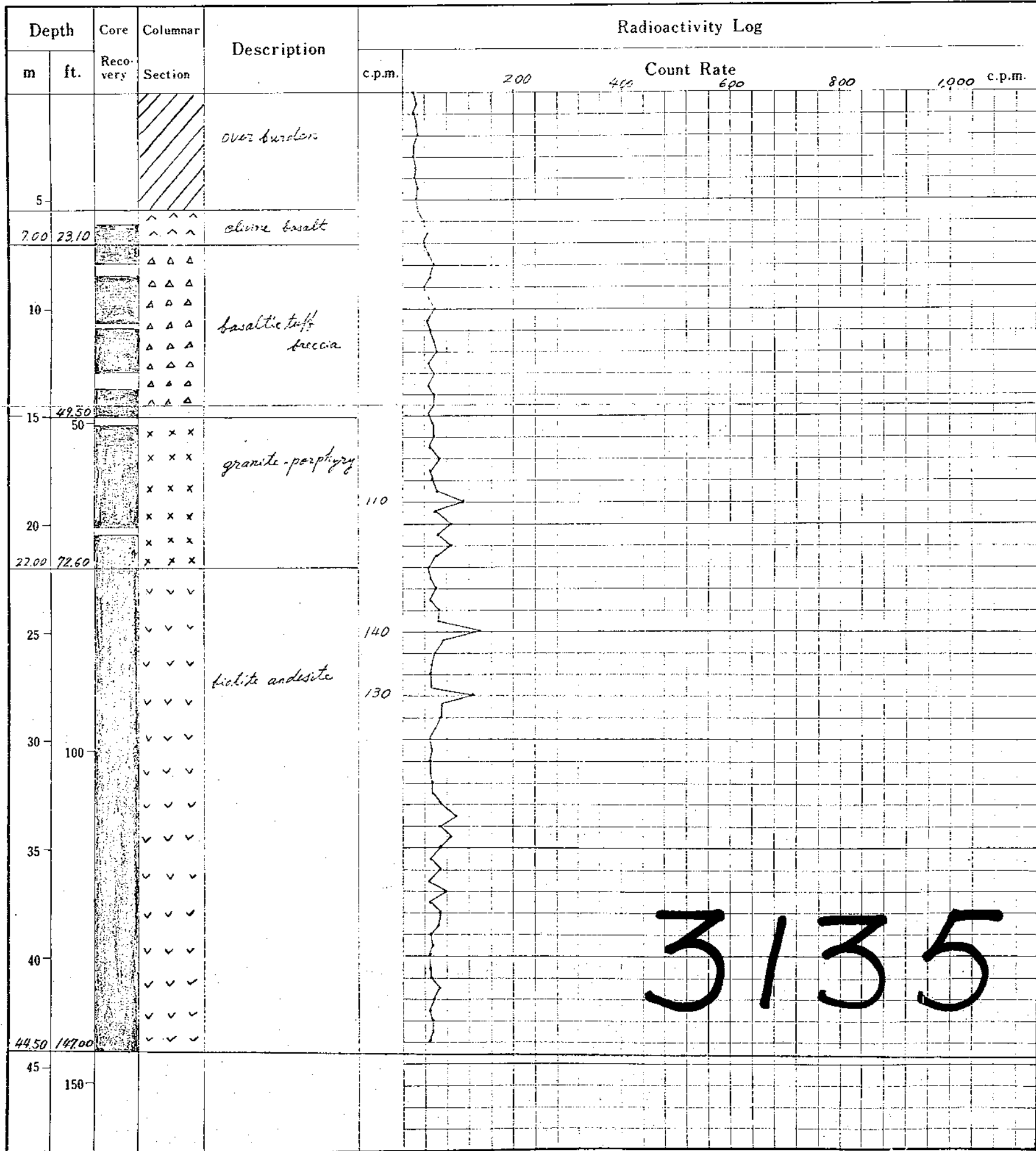
Logged and Probed by K. Kikuchi

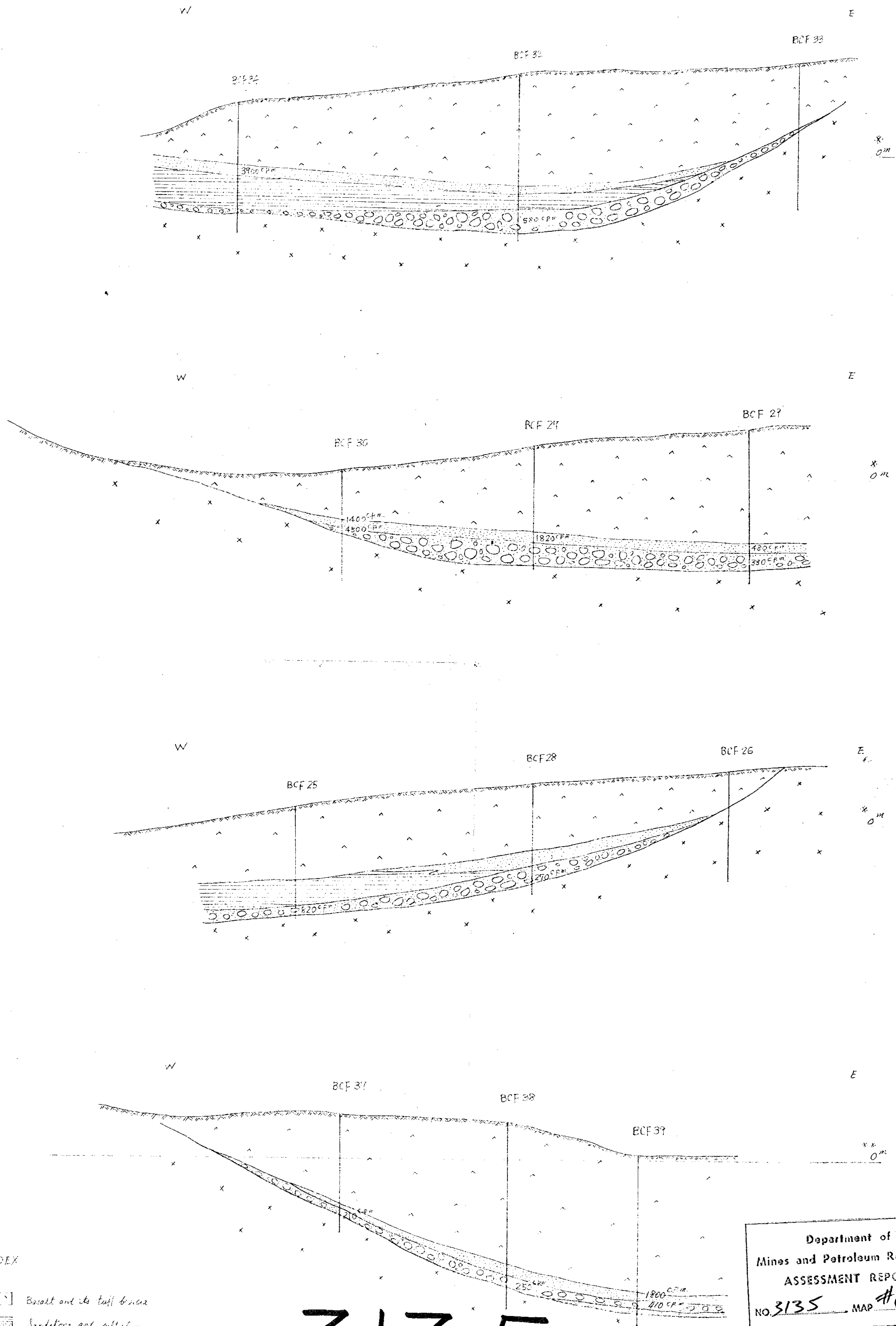


LOG AND PROBE SHEET

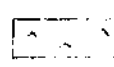
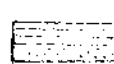
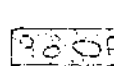
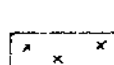
Hole No. *B.C.F. 24*
 Location : *FUKI 3*
 Total Depth: *147.00*
 Hole Angle : *Vertical*
 Core Size : *B.Q.*

Detector : *Guiger G.P.27 (Made by Nippon Musen)*
 Monitor : *T.C.S. 603R. (Made by Nippon Musen)*
 Background : *40 count per minute (c.p.m.)*
 Time Constant: *3-second*
 Date *May 31, 1971*
 Logged and Probed by *K. Kikuchi*





INDEX

-  Basalt and its tuff breccia
-  Sandstone and siltstone
-  Conglomerate
-  Base rock (granite-granite porphyry)
- BCF 37 Drill hole
- C.P.M. Count per minute
- * Datum 0 is mean drill hole B.C.F. 24 level
- ** Datum 0 is mean drill hole B.C.F. 23 level

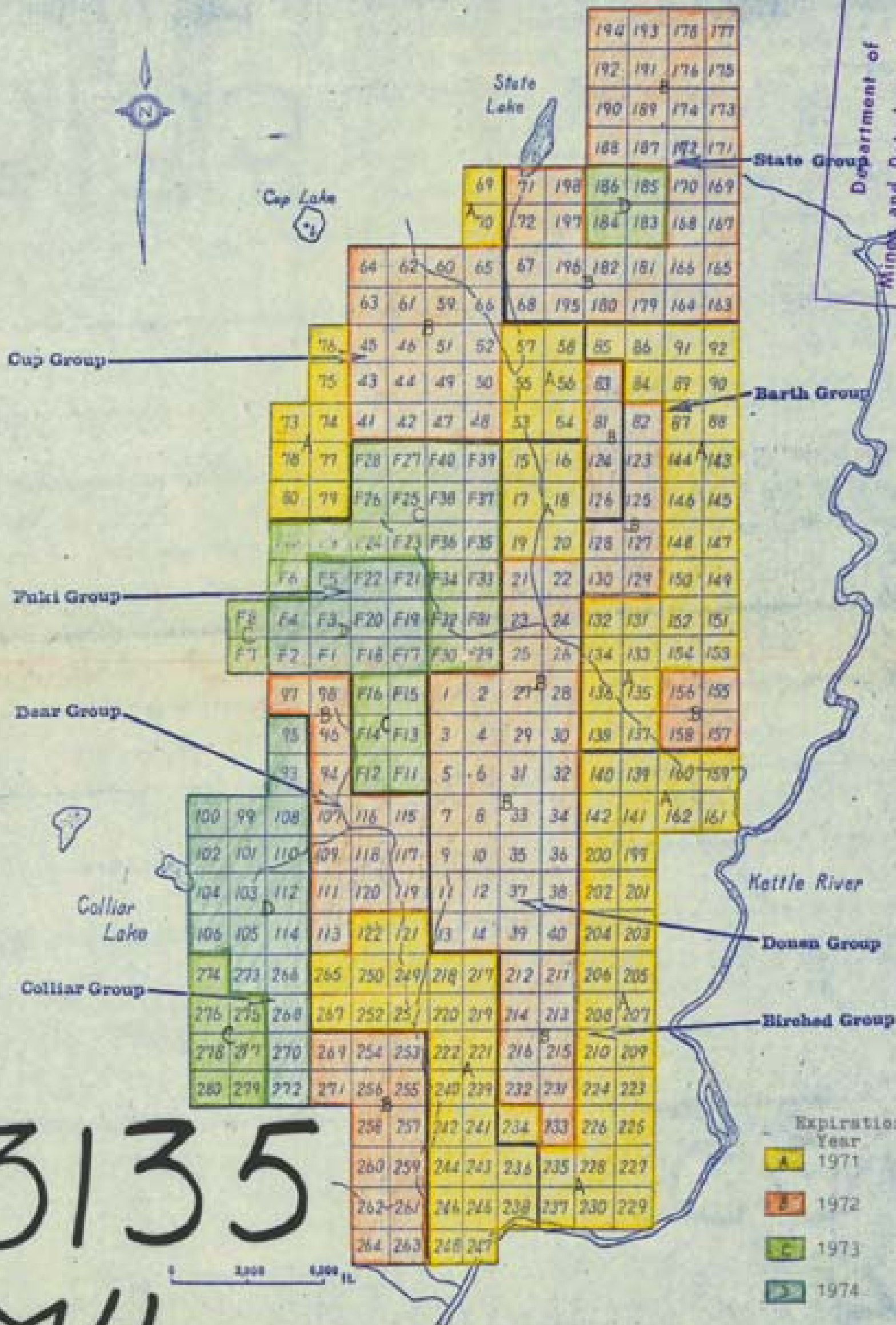
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Fig. 6 Geological Profiles along Drill Holes
FUKI & DOVEN Mineral Claims, B.C.
Scale: 1 : 1000
Attached to the report by K. Kikuchi
(July 22, 1971)
Kiyoshi Kikuchi
KIYOSHI KIKUCHI

Fig. 4 Mineral Claim Situation Map



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to accompany K. Kikuchi's report (July 22, 1971)

Kiyoshi Kikuchi
 Kiyoshi Kikuchi