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1991 ANNUAL ASSESSMENT REPORT
RED BLUFF URANIUM PROSPECT
WASHOE COUNTY, NEVADA

Prepared for:
U.S. Mining and Exploration Inc.
2750 Holcomb Lane
Reno, NV 89511

Prepared by:
Brent Hendrickson
Consultant Geologist
2875 Idlewild Drive #51
Reno, NV 89509

INTRODUCTION

The Red Bluff uranium prospect is located in the Virginia Mountains near Pyramid Lake in Washoe County, Nevada. Four full-size lode claims comprise the prospect, and they are found in section 36, T.24N., R.20E., and section 1, T.23N., R.20E. Ownership of the claims is held in good standing by U.S. Mining & Exploration, 2750 West Holcomb Lane, Reno, NV 89511.

GENERAL GEOLOGY

The general geology in the vicinity of the Red Bluff prospect consists of Mesozoic Sierra Nevada batholith granites that are unconformably overlain by an assemblage of Tertiary volcanics. These volcanics consist mainly of welded rhyolitic tuffs that are Miocene-Pliocene in age. Minor basaltic mudflows accompany the tuffs locally. Although no granite crops out on the Red Bluff prospect itself, small outcrops do occur less than a mile to the west and also within a few miles to south and east.

At some time following the deposition of the volcanics, two separate and distinct periods of faulting took place. During the first period, east-west trending faults resulted in the formation of several elongated "blocks". During the second period of faulting, major northeast trending faults truncated these blocks.

Following the second period of faulting, a steeply dipping andesite dike was apparently intruded along one of the northeast faults. This dike cuts across the Red Bluff prospect, and uranium mineralization has been found along the contact between the dike and the volcanics which it intruded.

More detailed discussions regarding the regional and local geology of the Red Bluff prospect can be found in Brooks, 1956; U.S. Atomic Energy Comm. Prelim. Reconn. Report 3775; U.S. Atomic Energy Comm. Prelim. Reconn. Report 3780; McJannet, 1957; Bonham, 1969; and N.B.M.G. Bull. 81.

MINERALIZATION

Uranium mineralization at the Red Bluff prospect occurs within the contact zone of the above mentioned andesite dike and the rhyolites that it intrudes. The footwall contact zone of the dike has apparently been faulted, and the highest grade of uranium mineralization occurs within this zone. Both the dike and the fault strike N.35° to 70° E. and dip 65° to 75° NW. Although uranium assays of as high as 15% have been obtained from the mineralized zone, mineralization of economic interest is generally poddy and discontinuous. This mineralization occurs in pancake-shaped shoots that are up to 4 feet thick and 12 feet in diameter. Specific uranium minerals identified within the mineralized zone are all secondary. According to Brooks (1956) these minerals include autunite, sabugalite, phosphuranylite, clevite(?), and as uraniferous hematite and opal.

The secondary nature of all uranium minerals identified at the Red Bluff prospect as well as lack of hydrothermal alteration in the host rhyolites suggest that uranium was leached from the tuffs and deposited at a redox boundary that existed in the mineralized zone. Although some bleaching of the rhyolites was observed around the mineralized zone, this bleaching is thought to have resulted from radioactive breakdown of feldspars. Silicification and the presence of opal in the vicinity of the mineralized zone are probably the result of the intrusive event that emplaced the andesite dike.

EXPLORATION AND MINING HISTORY

In November, 1954, the above described secondary uranium mineralization was discovered by the DeLongchamps along the base of a bluff formed by a rhyolite flow unit on what is now the Red Bluff prospect. The area was staked, and subsequent exploration identified the highly mineralized foot wall contact zone of the andesite dike. Exploration by competitors during this same time identified similar styles of mineralization in the vicinity. These areas were staked by a Mr. Garrett and by the partners Maue and McCray. Exploration of the claims by these groups of individuals was limited to bulldozer cuts and shallow prospect pits.

In July, 1955, Homestake Mining Company leased the DeLongchamps prospect and commenced underground exploration of the prospect with a cross-cut and exploratory drift along the footwall contact of the dike. The footwall zone was explored for 140 feet in this manner. Two raises and a winze also explored the zone for 90 feet along its dip. This work exposed 8 disc-shaped shoots of mineralization roughly parallel to the faulted contact. The dimensions of the shoots ranged up to 12 feet across and 4 feet thick. Homestake also conducted limited drilling through the dike to test the hanging wall contact for mineralization. The down dip extension of the foot wall zone was also drill tested with a vertical drill hole. This hole penetrated the foot wall zone 162 feet below the cross-cut portal. Poor drilling results were obtained, and Homestake ceased exploration of the prospect the following February. Approximately 100 tons of uranium ore were stockpiled during the underground exploration effort. This ore averaged approximately 0.2% U_3O_8. The highest concentrations of ore were found to be associated with iron and manganese oxides.

Subsequent to Homestake's exploration of the property, it was leased to other operators that reportedly made small infrequent shipments of high-grade uranium ore. Eventually, all claimants in the area let their claims lapse.

Increased uranium prices during the middle and late 1970's resulted in renewed interest in the mineralization on and around the old DeLongchamps prospect. The area was eventually staked by U.S. Mining & Exploration which has maintained claims in the area ever since. Their holdings were leased to Minatome during the late 1970's, and Minatome carried out a thorough

drilling program to try and delineate sufficient grades and tonnages to warrant large-scale mining. Minatome's exploration efforts were largely unsuccessful however, and their lease was eventually dropped.

Ore calculations were nevertheless done for the Red Bluff prospect utilizing the Minatome drill data. This work was done for U.S. Mining & Exploration by an unknown consultant. Utilizing a 0.05% U_3O_8 cutoff grade, it was estimated that a 200,000 ton ore reserve averaging 0.13% U_3O_8 exists on the property. Alternatively, at a cutoff grade of 0.10% U_3O_8, 100,000 tons of ore averaging 0.24% U_3O_8 is thought to exist on the property.

After the price of uranium decreased dramatically in the late 1970's, and the price of gold increased during the same time, the Red Bluff prospect was explored for the possible presence of precious metals mineralization. In 1984, 60 samples were collected on the prospect, and they were analyzed for gold and silver. The objective of the sampling was to determine if any of the uranium mineralized structures on the property contained precious metals. Assay results from this sampling indicated that gold and silver values on the prospect do not exceed typical crustal abundances.

CONCLUSIONS

Considering the current price of uranium, the grades and tonnages of uranium mineralization known to exist on the Red Bluff prospect are probably sub-economic. This is assuming that standard mining and extractive techniques are utilized. Minatome seems to have explored the property carefully enough through drilling to rule out the discovery of additional significant uranium mineralization. Although precious metals mineralization has been shown to be lacking on the property, the possible presence of other economic minerals has not been ruled out.

RECOMMENDATIONS

I recommend that the 4 claims that comprise the Red Bluff prospect be held for an additional year. There is always the possibility that uranium prices will increase, but more importantly, advances in the field of in-situ solution mining could make the Red Bluff prospect a viable mining venture in the near future. The particular style of uranium mineralization at Red Bluff (i.e. structurally confined secondary mineralization) may provide the proper scenario for successful solution mining. I suggest that U.S. Mining & Exploration investigate this possibility. The U.S. Bureau of Mines is currently doing alot of research into the field of in-situ mining, so perhaps they could provide some helpful insight in this regard.

In addition, I recommend that additional sampling of the mineralized zone be carried out in the coming year. Samples should be analyzed for a 40 element suite utilizing neutron activation analysis. This sort of analysis is the best way to prove whether or not any other kinds of mineralization of economic interest occur on the Red Bluff prospect.

BIBLIOGRAPHY

Bonham, H.F., 1961,Areal Economic Geology: unpublished map, Southern Pacific Co., T.24N., R.23-24E.

Brooks, Howard, 1956, Geology of a uranium deposit in the Virginia Mountains, Washoe County, Nevada: M.S. thesis, University of Nevada, Reno, Nev.

Garside, L.J., 1973, Radioactive Mineral Occurrences in Nevada, Nevada Bur. of Mines and Geol. Bull. 81, 121p.

McJannet, G.S., 1957, Geology of the Pyramid Lake-Red Rock Canyon area, Washoe County, Nevada: M.S. thesis, University of California, Los Angeles

U.S. Atomic Energy Comm. Prelim. Reconn. Report 3775

U.S. Atomic Energy Comm. Prelim. Reconn. Report 3780

ENGLISH SYSTEM

TABULATION OF ORE HOLES FOR RED BLUFF PROJECT

ASSUMPTIONS

a) URANIUM IS IN EQUILIBRIUM

b) THICKNESS REPRESENTS VERTICLE SECTION THRU ORE

ORE GRADE WAS CALCULATED FOR THE 1976 AND 1977 DRILLING USING THE GMT-3T COUNTER AND ST22-2T PROBE.

PROBE CALIBRATION: 1 COUNT/SEC $\approx$ 25 PPM e U_3O_8

$\approx$ 0.0025% e U_3O_8

THE CALCULATIONS FOR 1979 HOLES WAS DONE AUTOMATICALLY BY THE CENTURY GEOPHYSICAL COMPANY USING THE COMPU-LOG PROBING UNIT

FOR THE TABLES THE GRADE HAS BEEN ROUNDED TO HUNDRETHS WHILE THICKESS TO TENTHS. THE GT WAS OBTAINED FROM THE ORIGINAL GRADE AND THICKNESS THEN ROUNDED OFF TO THE HUNDRETHS PLACE.

ORE GRADE HAS BEEN CALCULATED TWICE USING A 0.05% e U_3O_8 CUT-OFF AND A 0.10% U_3O_8 CUT-OFF

0.05% U_3O_8 CUT-OFF

HOLE #		GRADE U_3O_8	THICKNESS FT'	G.T.	DEPTH TO TOP OF ORE, FT
76-2	a	0.07	7.5	0.59	2.6
	b	0.09	5.1	0.47	17.9
	c	0.12	4.9	0.59	25.6
76-6		0.04	5.2	0.23	281.8
76-7		0.06	5.4	0.33	84.0
76-9		0.10	4.1	0.42	73.8
76-11	a	0.14	7.2	1.04	260.2
	b	0.22	4.6	1.01	269.8
	c	0.09	2.0	0.19	225.4
76-15		0.34	12.8	4.33	56.6
76-16	a	0.08	8.0	0.66	54.4
	b	0.08	3.6	0.29	67.6
77-17	a	0.05	0.7	0.03	308.6
	b	0.06	1.2	0.07	312.4
77-19	a	0.05	1.0	0.05	2.6
	b	0.06	3.3	0.19	7.9
	c	0.06	4.3	0.25	30.8
	d	0.07	1.6	0.11	46.9
77-20		0.05	2.0	0.10	96.4
77-21A	a	0.08	4.8	0.40	22.5
	b	0.07	4.6	0.26	42.3
	c	0.18	10.5	1.85	67.9
77-24	a	0.05	0.8	0.04	187.6
	b	0.14	4.2	0.61	218.5
77-25		0.07	1.0	0.07	229.2
77-26		0.24	11.4	2.73	250.9
77-27		0.09	7.7	0.71	214.8
77-28		0.12	2.4	0.27	149.6
77-29	a	0.07	3.1	0.23	212.2
	b	0.21	16.4	3.36	292.2

0.05 % e U_3O_8 CUT-OFF, CONTINUED

HOLE #		GRADE e U_3O_8	THICKNESS FT	GT	DEPTH TO TOP OF OR
77-31	a	0.13	4.8	0.61	124.9
	b	0.11	4.6	0.51	137.4
77-33	a	0.13	2.0	0.26	180.1
	b	0.10	6.2	0.63	238.1
	c	0.07	12.1	0.79	283.7
A		0.12	31.8	3.82	223.0
B		0.05	1.9	0.09	204.0
C		0.05	0.5	0.02	176.0
D	a	0.05	0.6	0.03	269.6
	b	0.06	3.6	0.20	272.3
F		0.05	3.3	0.18	41.5
79-1		0.12	4.5	0.54	41.0

0.10 % e U_3O_8 CUT-OFF

76-2	a	0.11	0.1	0.07	7.4
	b	0.13	1.8	0.24	19.3
	c	0.16	2.8	0.43	27.2
76-9		0.13	2.6	0.35	75.3
76-11	a	0.18	4.7	0.86	261.4
	b	0.27	3.8	1.01	270.6
	c	0.14	0.8	0.11	275.8
76-15		0.49	7.7	3.83	57.9
76-16	a	0.13	1.3	0.17	55.6
	b	0.11	1.0	0.11	69.2
77-21	a	0.11	1.7	0.19	23.2
	b	0.27	3.7	1.02	71.4
77-24		0.18	2.7	0.49	219.3

D. 10% eU_3O_8 CUT-OFF, CONTINUED

HOLE #		GRADE eU_3O_8	THICKNESS FT	GT	DEPTH TO TOP OF OR
77-26		0.31	8.4	2.57	251.4
77-27		0.13	4.8	0.60	267.2
77-28		0.13	1.6	0.23	150.0
77-29A	a	0.10	0.8	0.08	213.2
	b	0.25	12.0	3.04	295.2
77-31	a	0.15	10.2	1.53	119.1
	b	0.14	3.0	0.43	186.6
77-33	a	0.15	1.3	0.21	180.2
	b	0.13	3.3	0.44	240.2
A		0.39	6.5	2.50	240.0

L.F. FLEMING
2750 HOLCOMB LANE
RENO, NEVADA 89511
(702) 852-2062

Assistant to E.L. Doheny

9/6/91

To whom it May Concern,

In the early 60's W.S. Mining leased uranium mining claims from Mave & Delong Champs properties in the Virginia Mountain Mining District in Washoe County thirty miles north of Reno two miles south of Pyramid Indian reservation. ~~the~~ ~~the~~ W.S. Mining & Exp Co Inc Corporation of Nevada was the lessor. the late ~~sixtys~~ sixtys we bought the properties from De Long champs & Mave. I L. J Fleming is president of the Corporation. Helped mine on car of ore about 65 shipped the car load of ore to Moab Utah it ran .47 hundreds. Since then have done ~~the~~ assessment work on the property and showed potential losses or ~~by~~ buyers of the property a good many times. Had Property leased to Minatron Company sub to French. Received $3500.00 Month lease until value of uranium dropped from $40.00 a pound to $8.00 per pound. of course they no longer kept the property. The ore is Carnotite (over)

autunite the autunite will get on your clothes & you get in the dark & you will glow all over your body. Some of the ore will go above 5% in pods & some higher. Winston drilled about half of it out taking the ore down to 150 hundreds @ 25¢ per pound come to 12,000,000 million dollars in my estimation they didnt drill half of it out as they didnt go deep enough to bottom the ore out at depth.

MINATOME CORPORATION
DRILLING RECORD

SHEET NO

PROPERTY: RED BLUFF PROJECT
HOLE No. RDB-79-1
CLAIM No.
BEARING
DIP
COORDINATES
LENGTH 130
DIAMETER 4 3/4
ELEVATION

DRILLED BY ROBERTSON
STARTED: 8/20/79
TERMINATED:
LOGGED BY: G. C. HARDER
8:15-9:15 - SET CASING
9:15-12:00 DRILLING
12:00-12:00 PULL OUT

HOLE IS SLIGHTLY NE OF BERNARD FAULT

Meters FROM	Meters TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	COLOR	GRAPHITE	PYRITE	ASSAY
0	15	Qal		GRAVEL				
15	25			STUCK IN HOLE - NO SAMPLES				
25	30	Tc		ROCK FRAGS OF CRYSTAL VITRIC TUFF OF Tc AND AB. ORANGE GLASSY ROCK, UPPER PART OF Tc - AB. CLAY CONTENT DUE TO ALTERATION				
30	35	Tc		CLAY RICH ALTERED TUFF OF Tc - SIMILAR TO CUTTINGS SEEN AT BASE OF Tc AND TOP OF MUDFLOW IN RDB-79-2				
35	60	Tc		" "	"			
60	70	MUDFLOW		DARK GRY GRN MDST AND VOLCANOCLASTIC SS				
70	90	MUDFLOW		DARK OLIVE GRN VOLCANOCLASTIC SS AND MUDSTONE - SOME BLACK MAFIC ROCK FRAGS AND GLASS				
90	115	MUDFLOW		GRN-BUFF VOLCANOCLASTIC SS FROM HIGHLY ALTERED Tm? TUFF				
115	130	Tm		DARK RED TUFF - PUMIC RICH TUFF OF Tm				

DRILLING RECORD

SHEET No.

PROPERTY: RED BLUFF PROJECT
CLAIM No.:
COORDINATES:
ELEVATION:

HOLE No.: RDB-79-2
BEARING:
DIP:
LENGTH: 220
DIAMETER: 4 3/4

DRILLED BY: ROBERTSON
STARTED: 8/18/79
TERMINATED: 8/18/79
LOGGED BY: G. C. HARDER

8:30 - 10:00 LEVEL RIG
10:00 - 11:00 SET CASING
11:00 - 2:30 DRILLING
2:30 - 4:10 PULLOUT + MOVE

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Colour NUM	Graphite TC	Pyrite			Assay
0	15	Qal		GRAVEL							
15	20			NO SAMPLE							
20	130	Tc		Tc = C.4.3, GRAYISH WHITE DEVITRIFIED AND ALT. LOWER UNIT OF C.4.3 - AB.							
				PHENOCRYSTS OF SMOKEY DIPYRAMIDAL QTZ AND FLDSPAR, SOME CHATOYANT, 25%							
				PHENO, MODERATELY WELDED TUFF OF CHIMNEY SPRINGS, CRYSTAL VITRIC TUFF							
				TR. OF MAFICS, NO BIOTITE							
130	135	Tc		CRYSTAL RICH POORLY SORTED VOLCANOCLASTIC SS							
135	140	MUDFLOW		DARK RED AND PURPLE MDST AND SS - LAHAR AT BASE OF Tc							
140	145	LAHAR		OLIVE GRN VOLCANOCLASTIC CONG. SS AND MDST - AB. MAFIC ROCK FRAGS.							
145	155	LAHAR		BUFF, VOLCANOCLASTIC CONG. SS, AB. LITHIC FRAGS AND CLAY MATRIX							
155	160	LAHAR		DITTO 140-145							
160	165	LAHAR		VOLCANOCLASTIC CLAYSTONE WITH AB. CRYSTAL GRAINS - QTZ, FLDS, MAFICS & LITHIC FRAGS							
165	170	"		VOLCANOCLASTIC SED. - CRYSTALLINE SS OR MILDLY ALT. TUFF, AB. OLIVE GRN CLAY CONTENT							
170	175	"		DITTO 160-165							
175	185	"		DITTO 160-165							
185	190	Tm		DARK RED CRYSTAL-VITRIC TUFF OF Tm - VAPOR PHASE XTALLIZATION, UPPER Tm							
190	205	Tm		"							
205	210	Tm		DARK RED AND BRN VITROPHYRE LAYER IN Tm							
210	220	Tm		DITTO 185-190							

MINATOME CORPORATION

DRILLING RECORD

SHEET No

PROPERTY: RED BLUFF PROJECT

CLAIM No.:

COORDINATES:

ELEVATION:

HOLE No.: DGS-79-3

BEARING:

DIP:

LENGTH: 100

DIAMETER: 4 3/4

DRILLED BY: ROBERTSON

STARTED: 8/20/79

TERMINATED: 8/22/79

LOGGED BY: G.C. HARDER

Meters FROM	Meters TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	COLOR	GRAPHITE	PYRITE	ASSAY
0	20	Qal		GULLY FILL - SET CASING				
20	40	Qal		GULLY FILL				
40	100	Td		Td OR UNIT 1 - RED CRYSTAL RICH VITRIC TUFF - DOGSKIN MT. TUFF				
				AB. BIOTITE AND FELDSPAR PHENOCRYSTS - WATER IN HOLE AT				
				55' MAKING HOLE UNSTABLE AND DIFFERCULT TO DRILL				

MINATOME CORPORATION
DRILLING RECORD

SHEET No

PROPERTY: RED BLUFF PROJECT
HOLE No. RDB-79-4
CLAIM No.
BEARING N 36 E
DIP 15°
COORDINATES
LENGTH 310
DIAMETER 4 3/4
ELEVATION

DRILLED BY ROBERTSON
STARTED: 8/24/79
TERMINATED: "
LOGGED BY: G.C. HARDER

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Color	Graphite	Pyrite			Assay
0	20			FILL & TALUS							
20	95	Tc		OLIVE GRN CRYSTAL RICH VITRIC TUFF OF LOWER Tc - AB. PHENOCRYSTS OF DIPYRAMIDAL QTZ AND FLSP							
95	100	Tc		SAME AS ABOVE BUT WITH 50% VERY F.G. BLACK MAFIC ROCK FRAGMENTS							
100	115			NO RETURNS							
115	120	CONTACT		FAULT OR DIKE - MAFIC DIKE? MATERIAL - DIABASE - BLUISH BLACK WITH MUD AND CLAY GOUGE							
120	160	Tc		AB. TUFF OF Tc AND RED VITROPHYRE							
160	170	Tc		MIXTURE OF AB. GLASSY ROCK AND Tc - ORANGE LIMONITE STAINING LT. GRN TUFF CHIPS							
170	200	Tm		RED PUMIC RICH TUFF OF Tm							
200	215			NO RETURNS							
215	225	FAULT		FAULT GOUGE - WAXY CLAY MATERIAL - CLAY WITH AB. CHIPS OF TUFF							
225	255	FAULT		BLUE GRN; VERY FINE GRNED CLAYSTONE, VERY SOFT ROCK, ALMOST AS SOFT AS TALC - CAN SCRATCH WITH FINGERNAIL - POSSIBLY SERPENTINE TYPE OF GOUGE ALONG FAULT PLANE							
255	280	DIKE		BLACK MAFIC ROCK - DIABASE, CRYSTALLINE?							
280	310	Td		C.U. #1, RED CRYSTAL RICH VITRIC TUFF OF Td, AB. BIOTITE							

MINATOME CORPORATION

DRILLING RECORD

SHEET No

PROPERTY: RED BLUFF PROJECT

CLAIM No.:

COORDINATES:

ELEVATION:

HOLE No.: RDB-79-5a

BEARING: S 15° W

DIP: 15°

LENGTH: 130

DIAMETER: 4 3/4

DRILLED BY: ROBERTSON

STARTED: 8/22/79

TERMINATED: "

LOGGED BY: G.C. HARDER

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Color	Graphite	Pyrite			Assay
0	20	Qal		GULLY FILL							
20	40	Qal		"							
40	50	Td		MIXTURE OF RED AND GRN CRSTAL VITRIC TUFF- HIGHLY ALTERED TO CLAY							
				AB. MAFIC ROCK FRAGMENTS							
50	85	Td		OLIVE GRN CRYSTAL-LITHIC TUFF OF Td = C.U. #1, HIGHLY ALTERED WITH AB. CLAY							
				CONTENT, MUCH BLACK ROCK AND GLASSY CHIPS, BIOTITE							
85	130	Tm		DARK RED CRYSTAL RICH - PUMIC RICH TUFF OF Tm = C.U. #2, AB PHENOCRYSTS							
				OF QTZ AND CLEAR FLDSP - TR OF BIOTITE							

MINATOME CORPORATION

DRILLING RECORD

SHEET No.

PROPERTY: RED BLUFF PROJECT
CLAIM No.:
COORDINATES:
ELEVATION:

HOLE No.: RDB-79-6
BEARING: N 35 E
DIP: 15°
LENGTH: 290
DIAMETER: 4 3/4

DRILLED BY: ROBERTON
STARTED: 8/25/79
TERMINATED: "
LOGGED BY: G.C. HARDER

Meters FROM	Meters TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	COLOR	GRAPHITE	PYRITE	ASSAY
0	20			FILL - SET CASING TO 10'				
20	30	Tc		CRYSTALLINE RICH VITRIC TUFF OF LOWER Tc - TR. OF OPALINE				
30	135	Tc		"				
135	165	CONTACT		CLAY GOUGE & BLACK ROCK CHIPS - POSSIBLE FAULT CONTACT				
165	235	Tm		C.U. #2 - DARK RED VITRIC TUFF WITH AB. REDDISH BRN GLASS				
235	240	FAULT		DITTO 135 - 165				
240	255			"				
255	260			" AND BLUE GRN VERY SOFT WAXY ROCK - SERPENTINE LIKE MATERIAL				
260	265			"				
265	270			" AND BLACK CLAY				
270	290	Td		C.U. #1 DARK RED CRYSTAL VITRIC TUFF OF Td				
				TD R20				

MINATOME CORPORATION

DRILLING RECORD

SHEET No

PROPERTY: RED BLUFF

CLAIM No.

COORDINATES

ELEVATION

HOLE No. RDB-79-7

BEARING NE

DIP 15°

LENGTH

DIAMETER 4 3/4

DRILLED BY ROBERTSON

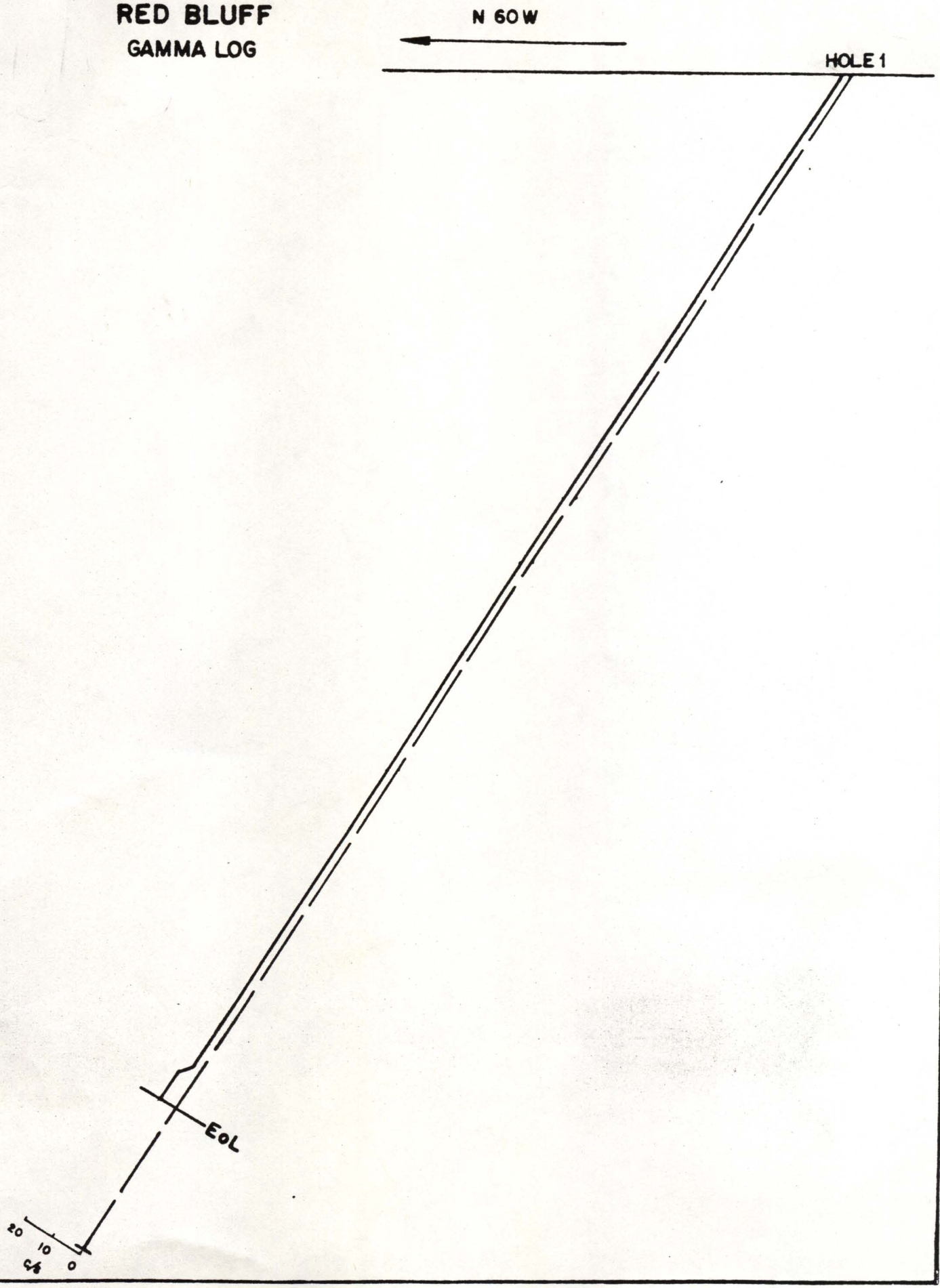
STARTED:

TERMINATED:

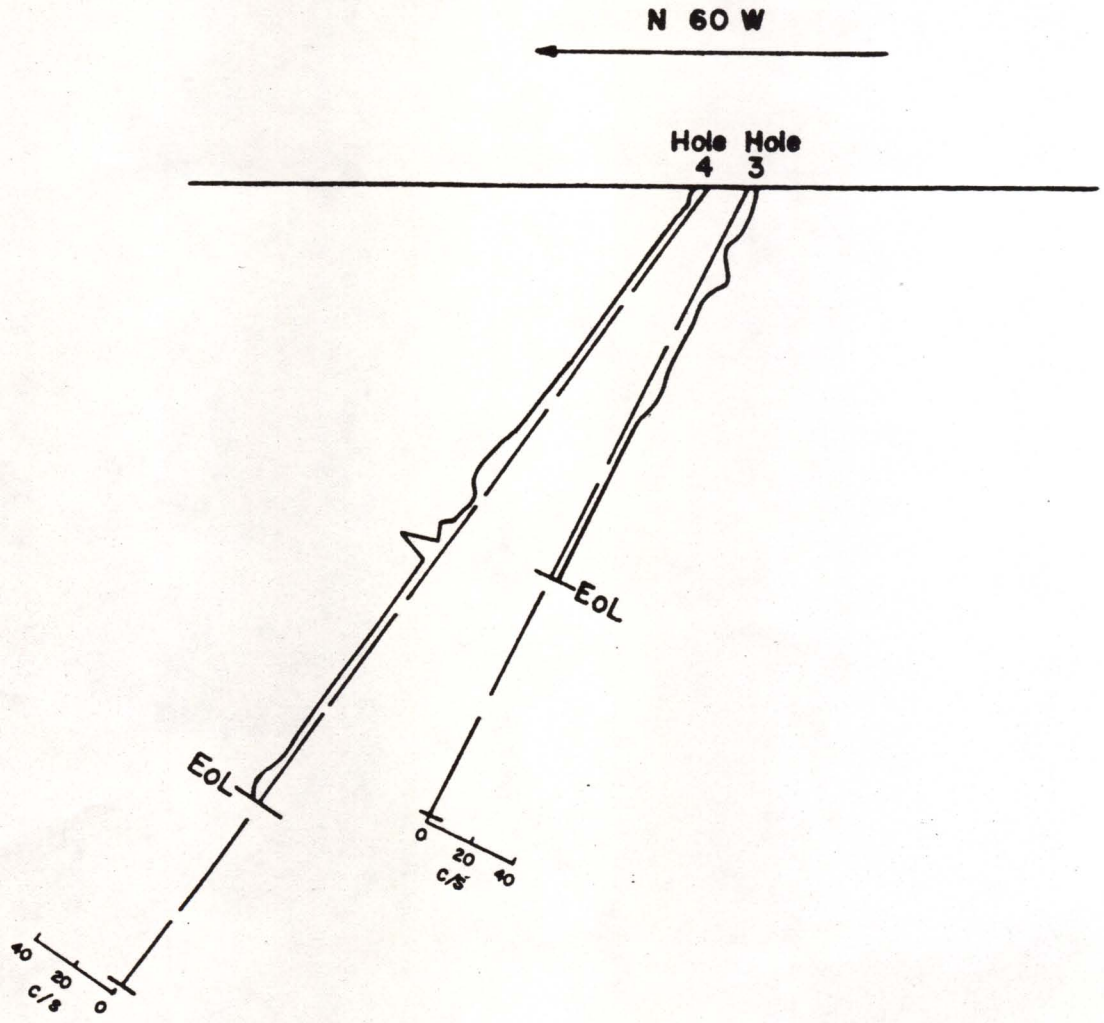
LOGGED BY: G. C. HARDER

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Color	Graphite	Pyrite			Assay
0	20			SET 20' OF CASING							
20	45	C.U. 3		C.U. #3 LT GRN CRYSTAL RICH TUFF							
45	90	C.U. 3		POSSIBLY #3 BUT CONTAINS ABUNDANT BIOTITE							
90	100	C.U. 3		"							
100	105	C.U. 3		" WITH ABUNDANT MAFIC ROCK FRAGMENTS							
105	120	GOUGE		" WITH ABUNDANT CLAY AND WAXY GRN ROCK - FAULT GOUGE							
120	155	"		"							
155	165	C.U. #I?		RED CRYSTAL VITRIC TUFF OF C.U. #I?							
165	200			MELANGE OF ABOVE, AB. TUFF CHIPS, GRN AND RED, MAFIC ROCK FRAGMENTS, BLACK GLASS							

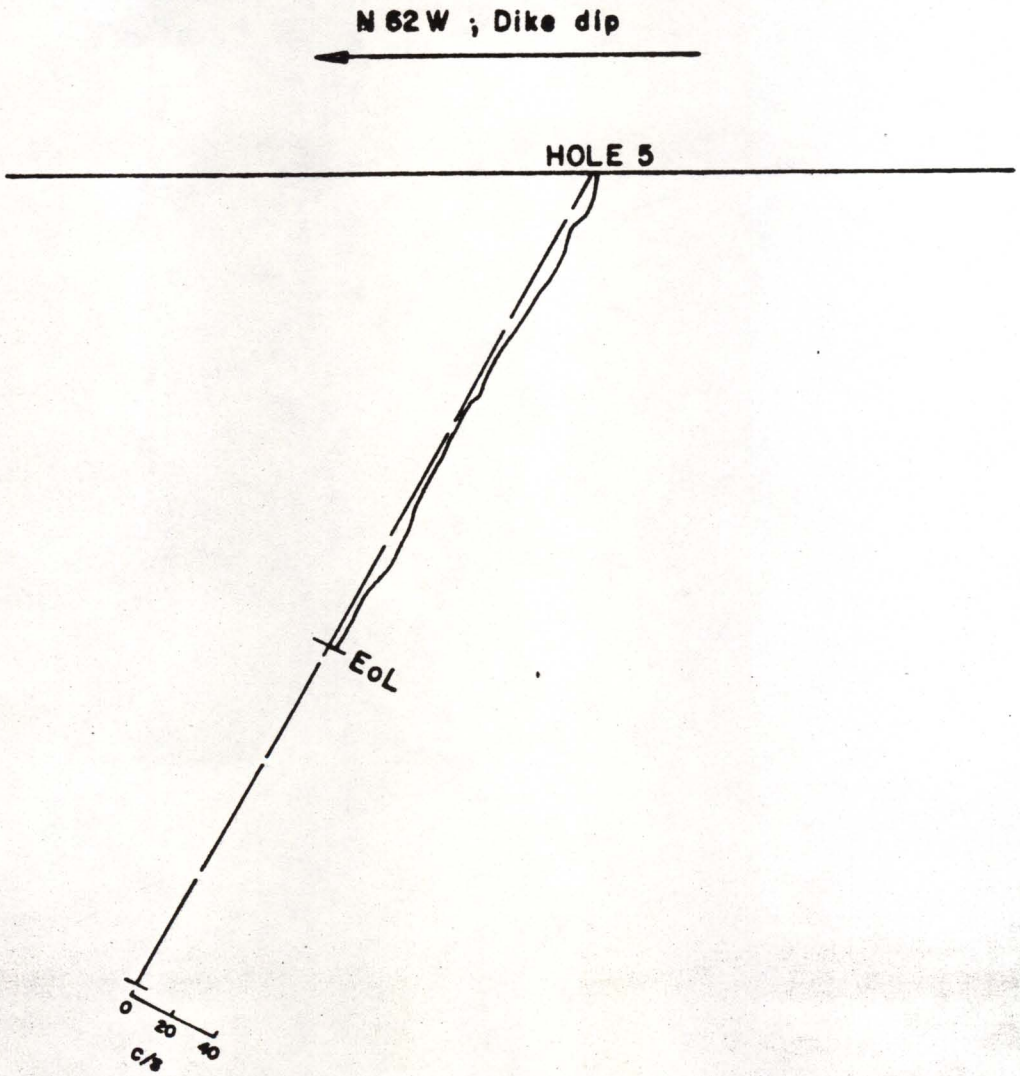
RED BLUFF
GAMMA LOG



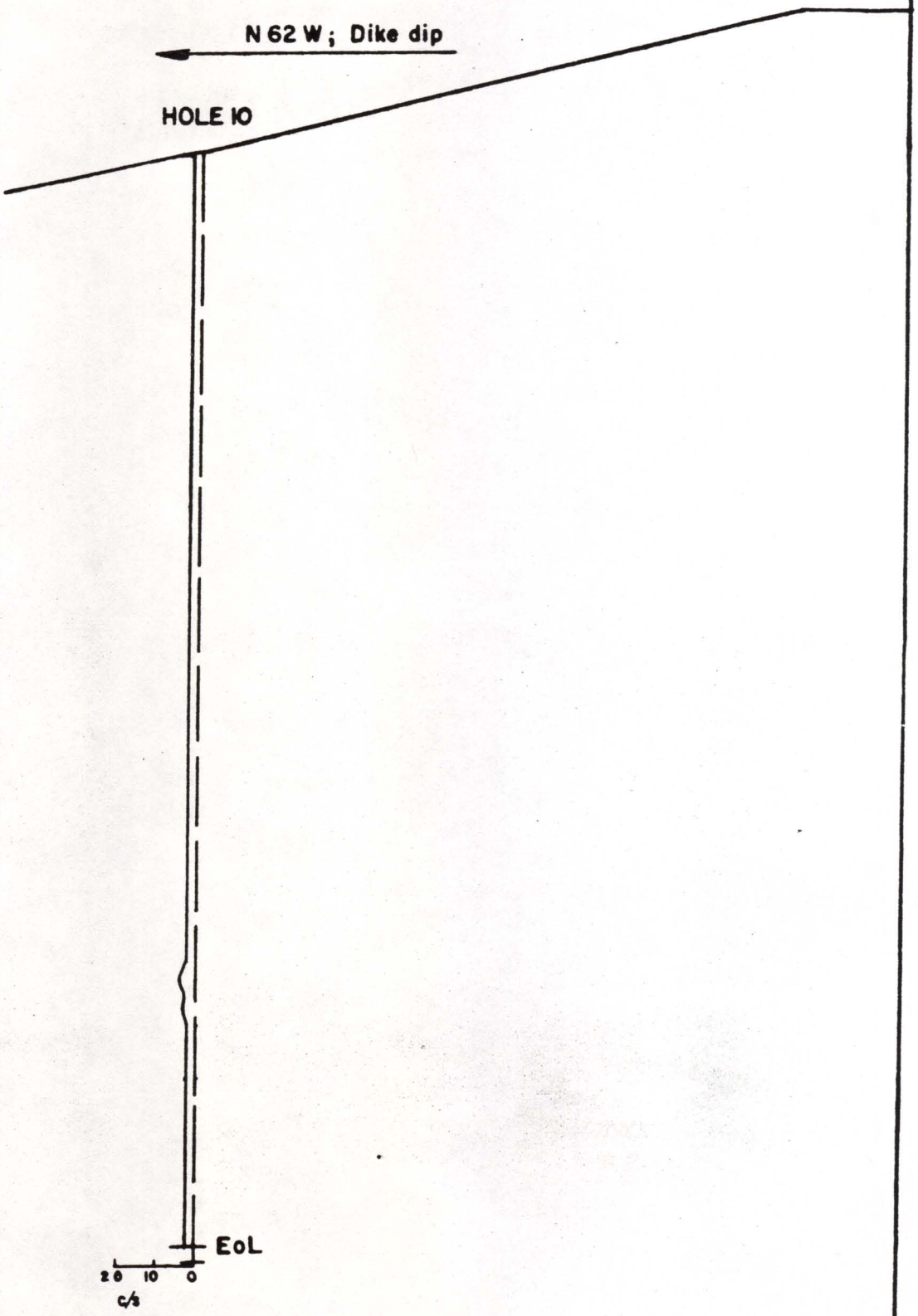
RED BLUFF PROPERTY
GAMMA LOG

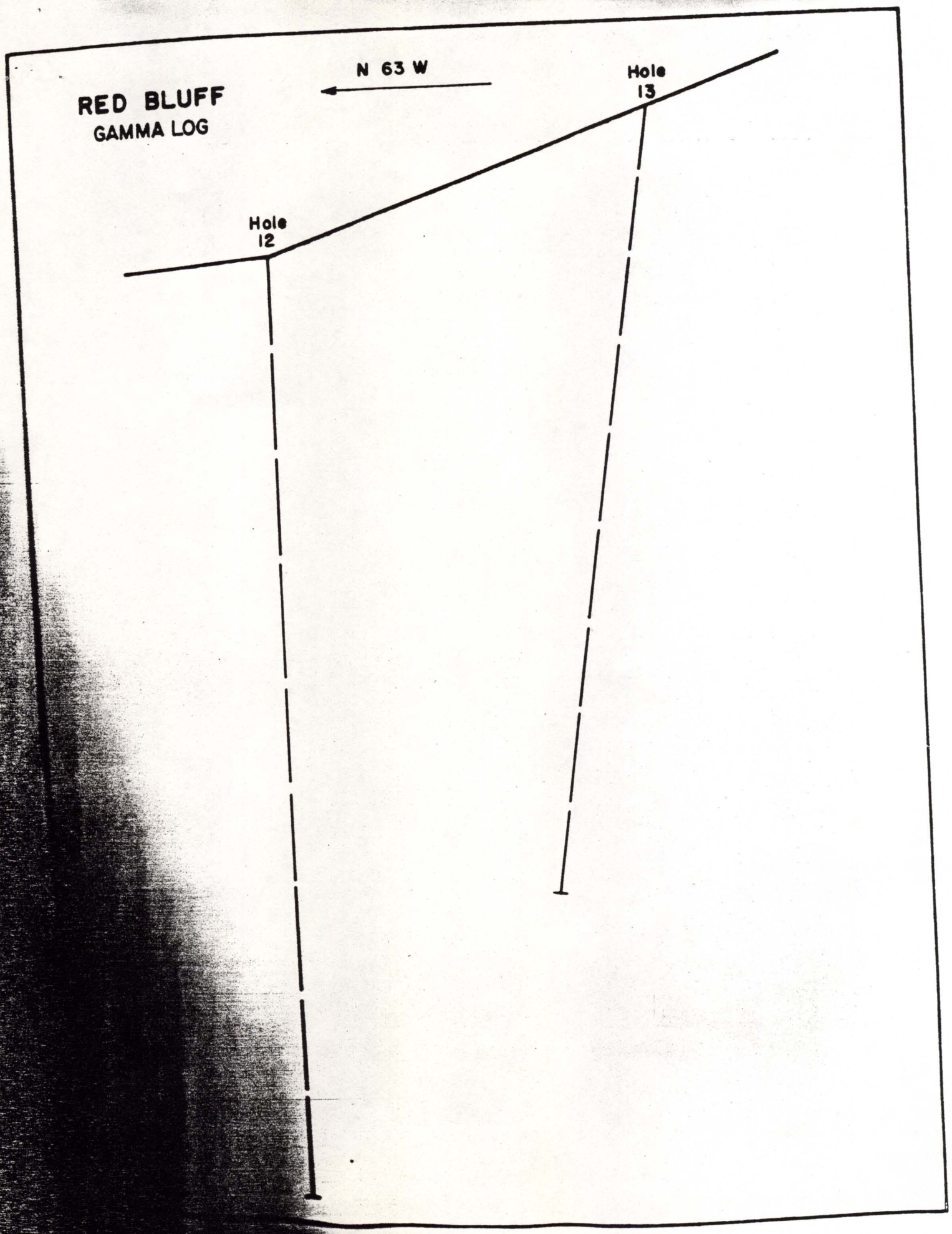


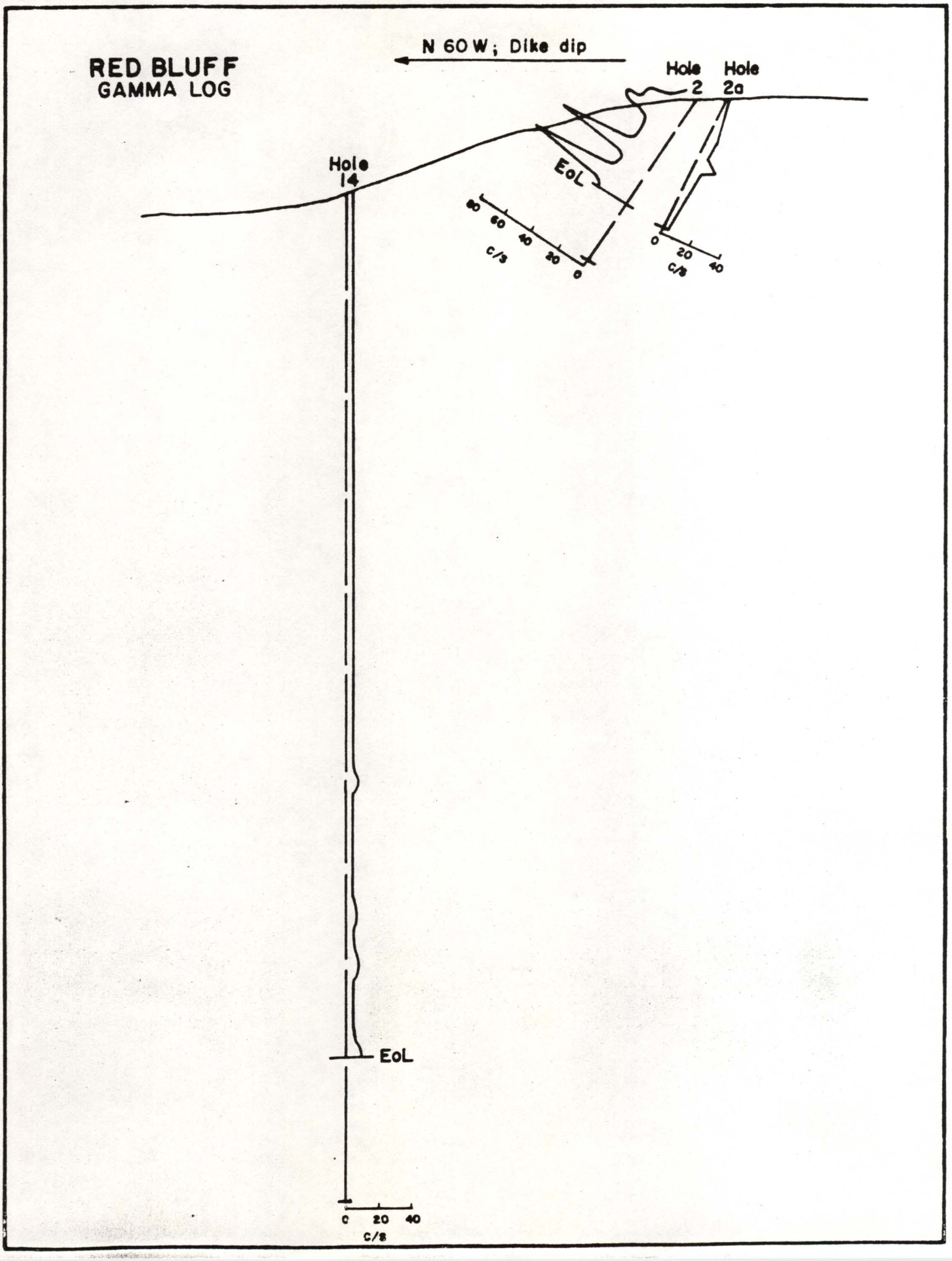
RED BLUFF PROPERTY
GAMMA LOG



RED BLUFF
GAMMA LOG

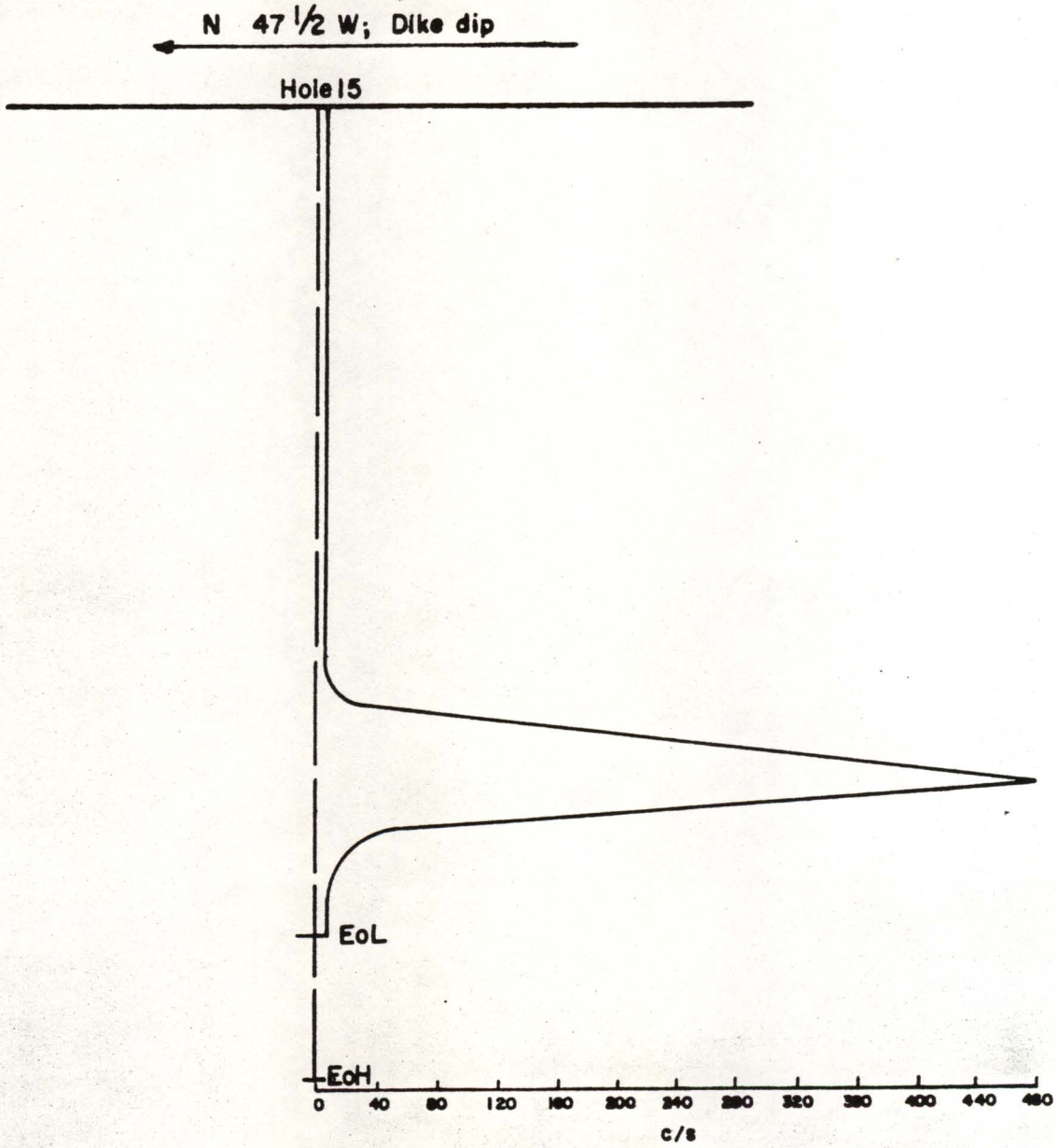



RED BLUFF
GAMMA LOG
N 63 W
Hole
13
Hole
12


RED BLUFF
GAMMA LOG
N 60 W; Dike dip
Hole 2
Hole 2a
Hole 14
EoL
80 60 40 20 0
c/s
0 20 40
c/s
EoL
0 20 40
c/s

RED BLUFF PROPERTY

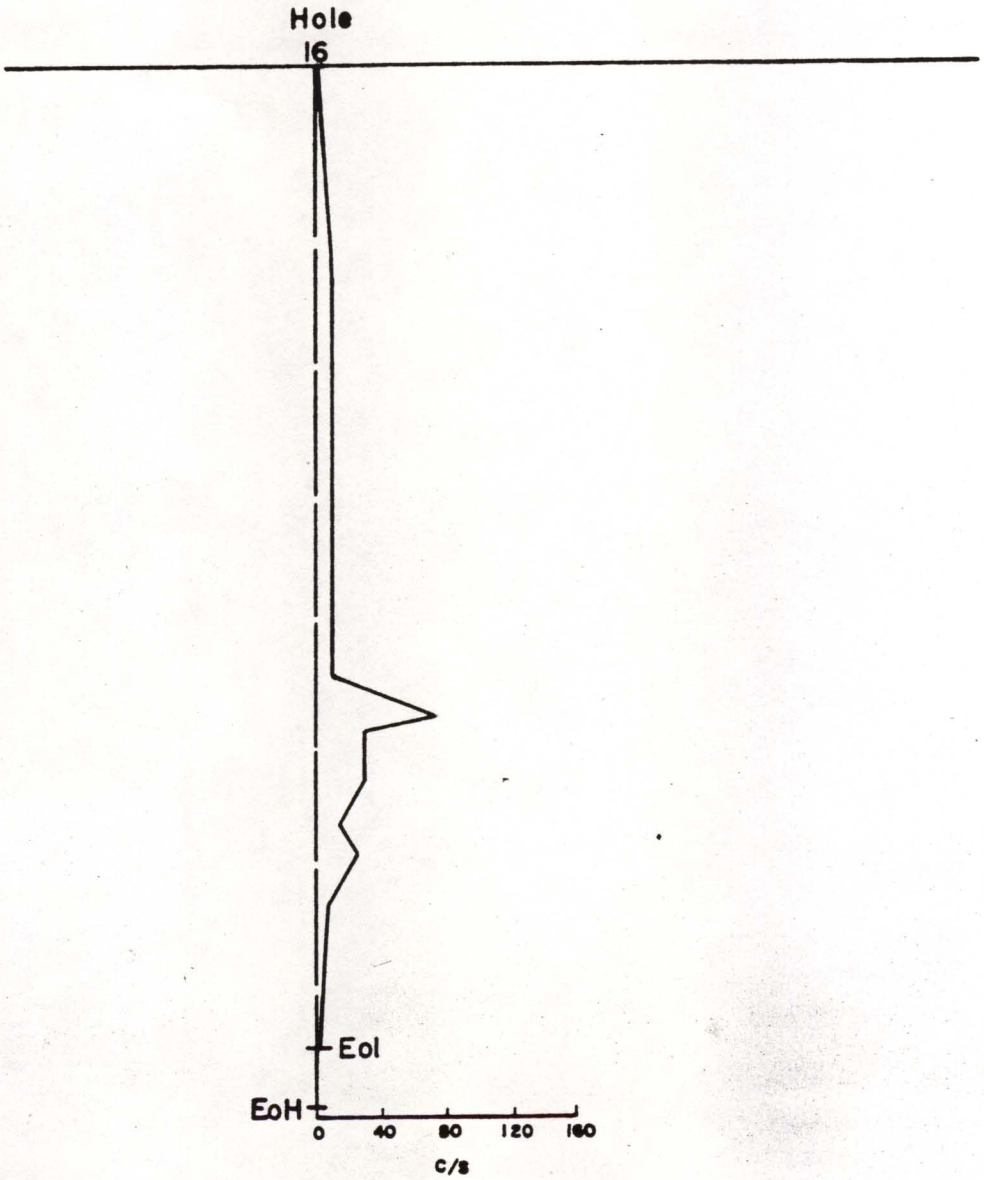
GAMMA LOG



RED BLUFF PROPERTY

GAMMA LOG

N 47 1/2 W; Dike dip



MINATOME CORPORATION
DRILLING RECORD

SHEET NO

PROPERTY: RED BLUFF PROJECT
CLAIM No.
COORDINATES
ELEVATION

HOLE No. RDB-79-1
BEARING
DIP
LENGTH 130
DIAMETER 4 3/4

DRILLED BY ROBERTSON
STARTED: 8/20/79
TERMINATED:
LOGGED BY: G. C. HARDER
8:15-9:15 - SET CASING
9:15-12:00 DRILLING
12:00-12:00 PULL OUT

HOLE IS SLIGHTLY NE OF BERNARD FAULT

Meters FROM	Meters TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	COLOR	GRAPHITE	PYRITE	ASSAY
0	15	Qal		GRAVEL				
15	25			STUCK IN HOLE - NO SAMPLES				
25	30	Tc		ROCK FRAGS OF CRYSTAL VITRIC TUFF OF Tc AND AB. ORANGE GLASSY ROCK,				
				UPPER PART OF Tc - AB. CLAY CONTENT DUE TO ALTERATION				
30	35	Tc		CLAY RICH ALTERED TUFF OF Tc - SIMILAR TO CUTTINGS SEEN AT BASE OF Tc				
				AND TOP OF MUDFLOW IN RDB-79-2				
35	60	Tc		" "	"			
60	70	MUDFLOW		DARK GRY GRN MDST AND VOLCANOCLASTIC SS				
70	90	MUDFLOW		DARK OLIVE GRN VOLCANOCLASTIC SS AND MUDSTONE - SOME BLACK MAFIC ROCK				
				FRAGS AND GLASS				
90	115	MUDFLOW		GRN-BUFF VOLCANOCLASTIC SS FROM HIGHLY ALTERED Tm? TUFF				
115	130	Tm		DARK RED TUFF - PUMIC RICH TUFF OF Tm				

SHEET NO

DRILLING RECORD

PROPERTY: RED BLUFF PROJECT
CLAIM No.:
COORDINATES:
ELEVATION:

HOLE No.: RDB-79-2
BEARING:
DIP:
LENGTH: 220
DIAMETER: 4 3/4

DRILLED BY: ROBERTSON
STARTED: 8/18/79
TERMINATED: 8/18/79
LOGGED BY: G. C. HARDER

8:30 - 10:00 LEVEL RIG
10:00 - 11:00 SET CASING
11:00 - 2:30 DRILLING
2:30 - 4:10 PULLOUT + MOVE

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Colour HUM	Graphite TC	Pyrite	AL	IT	Assay
0	15	Qal		GRAVEL							
15	20			NO SAMPLE							
20	130	Tc		Tc = C.4.3, GRAYISH WHITE DEVITRIFIED AND ALT. LOWER UNIT OF C.4.3 - AB.							
				PHENOCRYSTS OF SMOKEY DIPYRAMIDAL QTZ AND FLDSPAR, SOME CHATOYANT, 25%							
				PHENO, MODERATELY WELDED TUFF OF CHIMNEY SPRINGS, CRYSTAL VITRIC TUFF							
				TR. OF MAFICS, NO BIOTITE							
130	135	Tc		CRYSTAL RICH POORLY SORTED VOLCANOCLASTIC SS							
135	140	MUDSTONE		DARK RED AND PURPLE MDST AND SS - LAHAR AT BASE OF Tc							
140	145	LAHAR		OLIVE GRN VOLCANOCLASTIC CONG. SS AND MDST - AB. MAFIC ROCK FRAGS.							
145	155	LAHAR		BUFF, VOLCANOCLASTIC CONG. SS, AB. LITHIC FRAGS AND CLAY MATRIX							
155	160	LAHAR		DITTO 140-145							
160	165	LAHAR		VOLCANOCLASTIC CLAYSTONE WITH AB. CRYSTAL GRAINS - QTZ, FLDS, MAFICS & LITHIC FRAGS							
165	170	"		VOLCANOCLASTIC SED. - CRYSTALLINE SS OR MILDLY ALT. TUFF, AB. OLIVE GRN CLAY CONTENT							
170	175	"		DITTO 160-165							
175	185	"		DITTO 160-165							
185	190	Tm		DARK RED CRYSTAL-VITRIC TUFF OF Tm - VAPOR PHASE XTALIZATION, UPPER Tm							
190	205	Tm		"							
205	210	Tm		DARK RED AND BRN VITROPHYRE LAYER IN Tm							
210	220	Tm		DITTO 185-190							

MINATOME CORPORATION

DRILLING RECORD

SHEET No

DRILLED BY ROBERTSON

PROPERTY: RED BLUFF PROJECT

HOLE No. DGS-79-3

STARTED: 8/20/79

CLAIM No.

BEARING

TERMINATED: 8/22/79

DIP

LOGGED BY: G.C. HARDER

COORDINATES

LENGTH 100

DIAMETER 4 3/4

ELEVATION

Meters FROM	Meters TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	COLOR	GRAPHITE	PYRITE	ASSA
0	20	Qal		GULLY FILL - SET CASING				
20	40	Qal		GULLY FILL				
40	100	Td		Td OR UNIT 1 - RED CRYSTAL RICH VITRIC TUFF - DOGSKIN MT. TUFF				
				AB. BIOTITE AND FELDSPAR PHENOCRYSTS - WATER IN HOLE AT				
				55' MAKING HOLE UNSTABLE AND DIFFERCULT TO DRILL				

MINATOME CORPORATION

DRILLING RECORD

SHEET NO.

PROPERTY: RED BLUFF PROJECT

CLAIM No.:

COORDINATES:

ELEVATION:

HOLE No.: RDB-79-4

BEARING: N 36 E

DIP: 15°

LENGTH: 310

DIAMETER: 4 3/4

DRILLED BY: ROBERTSON

STARTED: 8/24/79

TERMINATED: "

LOGGED BY: G.C. HARDER

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Color	Graphite	Pyrite			Assay
0	20			FILL & TALUS							
20	95	Tc		OLIVE GRN CRYSTAL RICH VITRIC TUFF OF LOWER Tc - AB. PHENOCRYSTS OF DIPYRAMIDAL QTZ AND FLSP							
95	100	Tc		SAME AS ABOVE BUT WITH 50% VERY F.G. BLACK MAFIC ROCK FRAGMENTS							
100	115			NO RETURNS							
115	120	CONTACT		FAULT OR DIKE - MAFIC DIKE? MATERIAL - DIABASE - BLUISH BLACK WITH MUD AND CLAY GOUGE							
120	160	Tc		AB. TUFF OF Tc AND RED VITROPHYRE							
160	170	Tc		MIXTURE OF AB. GLASSY ROCK AND Tc - ORANGE LIMONITE STAINING LT. GRN TUFF CHIPS							
170	200	Tm		RED PUMIC RICH TUFF OF Tm							
200	215			NO RETURNS							
215	225	FAULT		FAULT GOUGE - WAXY CLAY MATERIAL - CLAY WITH AB. CHIPS OF TUFF							
225	255	FAULT		BLUE GRN, VERY FINE GRNED CLAYSTONE, VERY SOFT ROCK, ALMOST AS SOFT AS TALC - CAN SCRATCH WITH FINGERNAIL - POSSIBLY SERPENTINE TYPE OF GOUGE ALONG FAULT PLANE							
255	280	DIKE		BLACK MAFIC ROCK - DIABASE, CRYSTALLINE							
280	310	Td		C.U. #1, RED CRYSTAL RICH VITRIC TUFF OF Td, AB. BIOTITE							

MINATOME CORPORATION

DRILLING RECORD

SHEET No.

PROPERTY: RED BLUFF PROJECT

CLAIM No.:

COORDINATES:

ELEVATION:

HOLE No.: RDB-79-5a

BEARING: S 15° W

DIP: 15°

LENGTH: 130

DIAMETER: 4 3/4

DRILLED BY: ROBERTSON

STARTED: 8/22/79

TERMINATED: "

LOGGED BY: G.C. HARDER

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	NO.	Color	Graphite	Pyrite			Assay
0	20	Qal		GULLY FILL							
20	40	Qal		"							
40	50	Td		MIXTURE OF RED AND GRN CRSTAL VITRIC TUFF- HIGHLY ALTERED TO CLAY							
				AB. MAFIC ROCK FRAGMENTS							
50	85	Td		ONUE GRN CRYSTAL-LITHIC TUFF OF Td = C.U. #1, HIGHLY ALTERED WITH AB. CLAY							
				CONTENT, MUCH BLACK ROCK AND GLASSY CHIPS, BIOTITE							
85	130	Tm		DARK RED CRYSTAL RICH - PUMIC RICH TUFF OF Tm = C.U. #2, AB PHENOCRYSTS							
				OF QTZ AND CLEAR FLDSP - TR OF BIOTITE							

MINATOME CORPORATION
DRILLING RECORD

SHEET NO.

PROPERTY: RED BLUFF PROJECT
CLAIM No.
COORDINATES
ELEVATION

HOLE No. RDB-79-6
BEARING N 35 E
DIP 15°
LENGTH 290
DIAMETER 4 3/4

DRILLED BY ROBERTON
STARTED: 8/25/79
TERMINATED: "
LOGGED BY: G.C. HARDER

Meters FROM	Meters TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	COLOR	GRAPHITE	PYRITE	ASSAY
0	20			FILL - SET CASING TO 10'				
20	30	Tc		CRYSTALLINE RICH VITRIC TUFF OF LOWER Tc - TR. OF OPALINE				
30	135	Tc		"				
135	165	CONTACT		CLAY GOUGE + BLACK ROCK CHIPS - POSSIBLE FAULT CONTACT				
165	235	Tm		C.U. #2 - DARK RED VITRIC TUFF WITH AB. REDDISH BRN GLASS				
235	240	FAULT		DITTO 135 - 165				
240	255			"				
255	260			" AND BLUE GRN VERY SOFT WAXY ROCK - SERPENTINE LIKE MATERIAL				
260	265			"				
265	270			" AND BLACK CLAY				
270	290	Td		C.U. #1 DARK RED CRYSTAL VITRIC TUFF OF Td				
				TD 290				

CORPORATION

DRILLING RECORD

SHEET No

PROPERTY: RED BLUFF

CLAIM No.:

COORDINATES:

ELEVATION:

HOLE No.: ROB-79-7

BEARING: NE

DIP: 15°

LENGTH:

DIAMETER: 4 3/4

DRILLED BY: ROBERTSON

STARTED:

TERMINATED:

LOGGED BY: E. C. HARDER

FOOTAGE FROM	FOOTAGE TO	% RECOVERY	DELTA ANGLE	DESCRIPTION AND REMARKS	MG.	Color	Graphite	Pyrite			Ass
0	20			SET 20' OF CASING							
20	45	C.U. 3		C.U. #3 LT GRN CRYSTAL RICH TUFF							
45	90	C.U. 3		POSSIBLY #3 BUT CONTAINS ABUNDANT BIOTITE							
90	100	C.U. 3		"							
100	105	C.U. 3		" WITH ABUNDANT MAFIC ROCK FRAGMENTS							
105	120	GOUGE		" WITH ABUNDANT CLAY AND WAXY GRN ROCK - FAULT GOUGE							
120	155	"		"							
155	165	C.U. #I?		RED CRYSTAL VITRIC TUFF OF C.U. #I?							
165	200			MELANGE OF ABOVE, AB. TUFF CHIPS, GRN AND RED, MAFIC ROCK FRAGMENTS, BLACK GLASS							

TABLE 1 (cont.) Sample Data

Rock Type		Sample No.	U (ppm)	Pb (ppm)	Zn (ppm)	Mn (ppm)
Tuffs (cont.)	Unit					
	C	2510-23R	640	210	330	750
	C	2510-24R	1500	520	390	3,500
	C	2510-26R	170	300	165	500
	C	2510-27R	480	50	120	2,600
	C	2510-28R	100	55	125	300
	C	2710-1R	95	130	140	1,900
	C	2710-2R	1200	50	160	650
	C	2710-5R	18	30	145	350
	C	2710-6R	95	25	170	650
	C	2710-8R	215	30	165	240
	C	2710-12R	11	50	140	350
	C	2710-13R	1700	65	145	300
	C	2710-16R	50	40	160	50
	?	2810-4R	560	10	45	50

TABULATION OF 1976 RED BLUFF DRILLING

Hole No.	Hole Angle	Direction of Plunge	Footage
1	63°	N 60 W	352.5'
2	56°	N 60 W	50.0'
2a	63°	N 60 W	40.0'
3	63°	N 60 W	60.0'
4	54°	N 65 W	85.0'
5	61°	N 62 W	80.0'
6	VERTICAL	—	-392.5'
7	63°	N 56 W	125.0'
8	VERTICAL	—	120.0'
9	VERTICAL	—	95.0'
10	VERTICAL	—	235.0'
11	VERTICAL	—	365.0'
12	82°	N 63 W	110.0'
13	85°	N 52 W	135.0'
14	VERTICAL	—	265.0'
15	VERTICAL	—	90.0'
16	VERTICAL	—	90.0'

TOTAL DRILLING ⇒ 2690 feet

TABULATION OF 1977 RED BLUFF DRILLING

Hole	Original Orientation	Final Orientation (True Resultant)	Hole Footage	Meters
17	N57W, 63°W	N90W, 66½°W	335'	102.1
18	Vertical	Vertical	200'	61.0
19	N56W, 60°W	N.A.	62½'	19.0
19A	N51W, 64°W	N53W, 69°W	150'	45.7
20	Vertical	S38W, 86½°S	155'	47.3
21	,62°W	N.A.	20'	6.1
21A	,63°W	S84W, 68°W	375'	114.3
22	Vertical	N.A.	152½'	46.5
23	Vertical	N.A.	65'	19.8
24	Vertical	S77W, 88°W	280'	85.4
25	S27W, 60°S	S16W, 73°S	265'	80.8
26	S27W, 60°S	S17W, 68½°S	285'	86.9
27	S27W, 61°S	S12W, 71°S	315'	96.0
28	N48W, 84°W	N75W, 85°W	215'	65.5
29	N48W, 80°W	N.A.	85'	25.9
29A	N48W, 77°W	N71W, 83½°W	325'	99.1
31	Vertical	N.A.	225'	68.6
32	Vertical	N.A.	70'	21.3
32A	Vertical	N.A.	175'	53.4
33	N56W, 70°W	N.A.	405'	123.5
33A	N57W, 70°W	S79W, 77½°W	290'	88.4
34	N31E, 70°E	N.A.	145'	44.2
34A	N31E, 70°N	N29E, 73°N	215'	65.5
35	N31E, 70°E	N.A.	85'	25.9
35A	N31E, 70°E	N.A.	35'	10.7
35B	N28E, 70°E	N.A.	175'	53.4
37	Vertical	N.A.	390'	118.9
A	Vertical	Vertical	285'	86.9
B	N56W, 61°W	N75W, 70°W	310'	94.5
C	Vertical	Vertical	235'	71.6
D	N36E, 60°N	N23E, 68°N	385'	117.4
E	Vertical	N.A.	145'	44.2
F	Vertical	N.A.	75'	22.9
		Totals	6930'	2112.8m

RED BLUFF ACCUMULATIONS — 1977

RDB Drilling Program I

All values U_3O_8 ppm

*Parantheses indicate approximate value when disequilibrium factor is used.

Hole #6
500 ppm cut-off
depth 85.9 → 87.5m
Ra_m = 17.69 c/s
t^1 = 442.25 ppm (593)*
A = 0.95 GT GRADE

Hole #17
500 ppm cut-off
I. depth 94.1 → 94.3m
Ra_m = 20 c/s
t^1 = 500 ppm
A = 0.1

500 ppm cut-off
II. depth 95.24 → 95.6m
Ra_m = 24.2 c/s
t^1 = 605 ppm
A = 0.218

ΣA_i = 0.318

Hole #19
500 ppm cut-off
I. depth 0.8 → 1.1m
Ra_m = 20.25 c/s
t^1 = 50.63 ppm
A = 0.152

500 ppm cut-off
II. depth 2.4 → 3.4 m
Ra_m = 23.36 c/s
t^1 = 584.0 ppm (607)
A = 0.584 (0.607)

500 ppm cut-off
III. depth 9.4 → 10.7m
Ra_m = 23.14 c/s
t^1 = 578.6 ppm (1238.2)
A = 0.752 (1.61)

500 ppm cut-off
IV. depth 14.3 → 14.8m
Ra_m = 26.0 c/s
t^1 =650 ppm
A = 0.325

ΣA_i = (2.69)

Hole #19A - No acculmulation

Hole # 20
500 ppm cut-off
I. depth 29.4 → 30.0m
Ra_m = 19.86 c/s
t^1 = 496.4 ppm (620.5)
A = 0.372

Hole 21 A
I. 1000 ppm cut-off
depth 7.08 → 7.6m
Ra_m = 45.0 c/s
t^1 = 1125.0 ppm (1350)
A = 0.585 (0.70)

II.
depth 21.77 → 2.29m
Ra_m = 109.72 c/s
t^1 = 2743.06 ppm
A = 4.471
3.100

ΣA_i = (5.171)
1000 ppm

Hole #21A, continued
500 ppm cut-offs
I. depth 6.85 → 8.3m
Ra_m = 33.56 c/s
t^1 = 839.06 (1007 ppm)
A = 1.217 (1.46)

II. depth 12.9 → 14.3m
Ra_m = 22.53 c/s
t^1 = 563.33 ppm (756)
A = 0.789 (1.06)

III. depth 20.7 → 23.9m
Ra_m = 70.58 c/s
t^1 = 1764.4ppm (2205)
A = 5.646 (7.06)

ΣA_i = (9.58)
500 ppm

Hole #24
1000 ppm cut-off
I. depth 66.87 → 67.7m
Ra_m = 72.1 c/s
t^1 = 1802.5
A = 1.496 (1,513)

500 ppm cut-off
I. depth 57.2 → 57.45m
Ra_m = 21.0 c/s
t^1 = 525 ppm
A = 0.131

II. depth 66.63 → 67.9m
Ra_m = 58.14 c/s
t^1 = 1453.6 ppm
A = 1.991 (1,845)

ΣA_i = 2.122
500 ppm

Hole #25
500 ppm cut-off
depth 69.9 → 70.2m
Ra_m = 27.14 c/s
t^1 = 678.6 (844.2)
A = 0.407 (0.506)
(.203)

Hole #26
1000 ppm cut-off
76.65 → 79.2m
Ra_m = 122.76 c/s
t^1 = 3068.98 ppm
A = 7.826

500 ppm cut-off
depth 76.52 → 80.0m
Ra_m = 95.73 c/s
t^1 = 2393.2 ppm
A = 8.568
(8.328)

Hole #27
1000 ppm cut-off
depth 81.47 → 82.93m
Ra_m = 50.4 c/s
t^1 = 1260 ppm (1671)
A = (2.44)

500 ppm cut-off
depth 80.76 -- 83.1m
Ra_m = 37.11 c/s
t^1 = 927.8 ppm (1230.3)
A = (2.88)

Hole #28
1000 ppm cut-off
depth 45.73 → 46.2m
Ra_m = 55.17 c/s
t^1 = 1379.17 ppm
A = 0.648

500 ppm cut-off
depth 45.62 → 46.34m
Ra_m = 46.5 c/s
t^1 = 1162.5 ppm
A = 0.837

Hole #29A
1000 ppm cut-off
I. depth 65 → 65.25m
Ra_m = 39.75 c/s
t^1 = 993.75 ppm
A = 0.248

Holes #29A, continued
1000 ppm cut-off
II. depth 90.0 → 93.65m
Ra_m = 101. c/s
t^1 = 2538.2 ppm
A = 9.26

500ppm cut-off
I. depth 64.7 → 65.65m
Ra_m = 29.73 c/s
t^1 = 743.18 ppm
A = 0.706

II. depth 89.1 → 94.1m
Ra_m = 82.04 c/s
t^1 = 2051.0 ppm
A = 10.255

ΣA_i = 9.51
1000 ppm

ΣA_i = 10.961
500 ppm

Hole #31
1000 ppm cut-off
I. depth 36.3 → 39.4m
Ra_m = 60.0 c/s
t^1 = 1500 ppm (1800)
A = 1.65 (1.98)

II. depth 42.3 → 43.2m
Ra_m = 56.9 c/s
t^1 = 1422.5 ppm (1707)
A = 1.28 (1.54)

ΣA_i = (3.52)
1000 ppm

Hole #31, continued

500 ppm cut-off

I. depth 38.1 → 39.57m
Ra_m =50.94 c/s
t^1 = 1273.44 (1528)
A = 1.872 (2.25)

II. depth 41.9 → 43.3m
Ra_m = 44.5 c/s
t^1 = 1112.5 ppm (1335)
A = 1.67 (2.00)
(1.56)

ΣA_i = (4.25)
500 ppm

Hole #33

1000 ppm cut-off

I. depth 54.95 → 55.36m
Ra_m = 61.17 c/s
t^1 = 1529.12 ppm
A = 0.696
(.627)

ΣA_i = 2.05
1000 ppm

II. depth 73.22 → 74.23m
Ra_m = 53.45 c/s
t^1 = 1336.4 ppm
A = 1.35

500 ppm cut-off

I. depth 54.9 → 55.5m
Ra_m = 53.14 c/s
t^1 = 1328.6 ppm
A = 0.797

500 ppm, continued

II. depth 72.6 → 74.48m
Ra_m = 40.95 c/s
t^1 = 1024 ppm
A = 1.925

III. depth 86.5 → 90.2m
Ra_m = 26.16 c/s
t^1 = 653.95 ppm
A = 2.42

ΣA_i = 5.142
500 ppm

RDB ACCUMULATION

HOLES A,B,C,D,E, and F

RDB Drilling Program II

Hole A

500 ppm cut-off
Depth 68.0→77.7m
Ra_m = 48.12 c/s
t' = 1203 ppm (~1444 ppm)
A = 14.02

1000-ppm cut-offs:

Accu. I
Depth 71.88→71.97m
Ra_m = 32 c/s
t' = 800 ppm (~1000 ppm)
A = .09

Accu. II
Depth 72.6→72.85m
Ra_m = 35 c/s
t' = 375 ppm (~1050 ppm)
A = 0.263

Accu. III
Depth 73.22→75.2m
Ra_m = 154.3 c/s
t' = 3857.5 (~4629 ppm)
A = 9.17

Hole B

500 ppm cut-off
Depth 62.23→62.8m
Ra_m = 18.9 c/s
t' = 471.43 (1.2) (~566 ppm)
A = .323

Hole C

500 ppm cut-off
Depth 53.65→53.8m
Ra_m = 16.7 c/s
t' = (~500 ppm)
A = 0.075

Hole D

500 ppm cut-offs:

Acc. I
Depth 82.2→82.38m
Ra_m 17 c/s
t' = (510 ppm)
A = 0.091

Acc. II
Depth 83.1→84.2m
Ra_m = 18.75 c/s
t' = (562.5 ppm)
A = 0.619

Hole F

500 ppm cut-off
Depth: 12.65→13.65m
Ra_m = 21.7c/s
t' = 542.5 ppm (1.2) (~650 ppm)
A = (.65)

Note: All values in brackets are corrected for dis-equilibrium.

RECEIVED
DEC 27 1976
NEY DEVELOPMENT (U.S.A.), INC.

705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

TO: Pechiney Ugine,
730 San Mateo S.E.,
Albuquerque, New Mexico.

Attn: L. Turner

PROJECT No.

DATE Dec.21/76.

File No. 3062

SAMPLE No.	V %	U_3O_8 %	
RB11-250-255	.010	.001	
255-260	<.005	.012	
260-265	.010	.015	
265-270	.010	.307	.0975% cU_3O_8
270-275	.005	.034	.0775% cU_3O_8
275-280	<.005	.208	20'
280-285	.005	.024	0.143%
285-290	.010	.013	
290-295	.005	.007	
295-300	.010	.009	
RB15-40-45	.025	.005	
45-50	.015	.003	
50-55	.010	.006	
55-60	.010	.005	
60-65	<.005	.269	0.266% cU_3O_8
65-70	.010	.567	0.228% cU_3O_8
70-75	.010	.071	
75-80	<.005	.018	
80-85	.010	.005	

e(.834) =

35' .088% U

1.2 vs 2.6

e(.857) =

20' of .229

MIN-EN Laboratories Ltd.

CERTIFIED BY

COMPANY: Pechiney Ugine

PROJECT No.:

ATTENTION: Larry Turner

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

Sample Number (6, 81–86)	Mo ppm (10, 90)	Cu ppm (15, 95)	Pb ppm (20, 100)	Zn ppm (25, 105)	Ni ppm (30, 110)	Co ppm (35, 115)	Ag ppm (40, 120)	Fe ppm (45, 125)	Hg ppb (50, 130)	As ppm (55, 135)	Mn ppm (60, 140)	Au ppb (65, 145)	U ppm (70, 150)	(75, 155)
RB 8 - 7.5	- 8.0										silicified		110.0	.0257%
8.0	- 8.5												370.0	.0934
8.5	- 9.0												260.0	e(.251)
9.0	- 9.5												9.0	
9.5	- 10.0												120.0	
10.0	- 10.5												93.0	
RB 9 - 0	- 1.0												17.0	
1.0	- 1.5												210.0	
1.5	- 2.0												120.0	
4.5	- 5.0												28.0	
5.0	- 5.5												52.0	
5.5	- 6.0										No silicified		100.0	.0326
6.0	- 6.5										plain altered		49.5	
6.5	- 7.0										dike		46.0	.0148
7.0	- 7.5												39.5	
7.5	- 8.0												340.0	e(.451)
8.0	- 8.5												370.0	
8.5	- 9.0	27											95.0	
RB 6 - 26.5	- 27.0												26.0	
27.0	- 27.5												21.0	
27.5	- 28.0												55.0	
28.0	- 28.5												170.0	
28.5	- 29.0												370.0	
29.0	- 29.5												64.0	
29.5	- 30.0												38.0	
30.0	- 30.5												75.0	

CERTIFIED BY

COMPANY: Pechiney Ugine

PROJECT No.:

ATTENTION: Larry Turner

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	U ppm	
RB7 50-55													50.0	
55-60													17.0	
60-65													26.0	
65-70													57.0	
70-75													18.0	
75-80		23											190.0	
80-85		26											145.0	
85-90													35.0	
90-95													45.0	
95-100													99.0	
100-105													47.0	
105-110													79.0	
110-115													41.5	
RB7 115-120													99.0	
RB2 5-10													145.0	090
10-15													750.0	037
15-20													100.0	e(.35
20-25													180.0	
25-30													190.0	
30-35											1.6		315.0	
RB1 6-35-40													28.0	33
40-45													64.0	76
45-50													99.0	116
50-55											.005 37%		120.0	142
55-60											.018 %		120.0	142
65-70													190.0	224
70-75										e (.3562) = chemical			640.0	755
75-80													37.0	44
RB8 65-70													35.0	41
70-75													41.5	49

CERTIFIED BY

Red Bluff No.2:

Teneur de coupure 500 ppm e U.

Accumulation I	Accumulation II	Accumulation III
Cote = 0,8 ↔ 3,1m	5,45 ↔ 7,0m	7,8 ↔ 9,3m
Ra_m = 29,2 c/s	36,9 c/s	47,1 c/s
t' = 730 ppm e U	923 ppm e U	1178 ppm e U
A = 1,68	1,43	1,77

$\sum A_i = 4,88$

Teneur de coupure 1000 ppm e U.

Accumulation I	Accumulation II	Accumulation III
Cote = 2,25 ↔ 2,45m	5,9 ↔ 6,45m	8,3 ↔ 9,15m
Ra_m = 44,5 c/s	53,7 c/s	62,4 c/s
t' = 1112,5 ppm e U	1343 ppm e U	1559 ppm e U
A = 0,22	0,74	1,33

$\sum A_i = 2,29$

Red Bluff No.7:

Teneur de coupure 500 ppm e U.

Cote = 25,6 ↔ 27,25m
Ra_m = 24,4 c/s
t' = 610 ppm e U
A = 1,0

Red Bluff No.9:

Teneur de coupure 500 ppm e U.

Cote = 22,5 ↔ 23,75m
Ra_m = 41,8 c/s
t' = 1044 ppm e U
A = 1,51 (1,31)

Teneur de coupure 1000 ppm e U.

Cote = 22,95 ↔ 23,75m
Ra_m = 54 c/s
t' = 1348 ppm e U
A = 1,08

Red Bluff No.11:

Teneur de coupure 500 ppm e U

Accumulation I	Accumulation II	Accumulation III
Cote = 79,35 ↔ 81,55m	82,25 ↔ 83,65m	83,95 ↔ 84,55m
Ra_m = 57,5 c/s	87,7 c/s	37,7 c/s
t' = 1436 ppm e U	2192 ppm e U	942 ppm e U
A = 3,12	3,34 (3,07)	0,56

$\sum A_i = 7,02$

Teneur de coupure 1000 ppm e U

Accumulation I	Accumulation II	Accumulation III
Cote = 79,70 ↔ 81,15m	82,5 ↔ 83,65m	84,10 ↔ 84,35m
Ra_m = 72,3 c/s	107,4 c/s	54,4 c/s
t' = 1807 ppm e U	2685 ppm e U	1360 ppm e U
A = 2,55	3,09	0,34

$\sum A_i = 5,98$

Red Bluff No.15:

Teneur de coupure 500 ppm e U

Cote = 17,25 ↔ 21,15m
Ra_m = 135,4 c/s
t' = 3385 ppm e U
A = 13,37 (13,20)

Teneur de coupure 1000 ppm e U

Cote = 17,65 ↔ 20,05m
Ra_m = 194,6 c/s
t' = 4865 ppm e U
A = 12,16
(11,67)

Red Bluff No.16:

Teneur de coupure 500 ppm e U

Accumulation I	Accumulation II
Cote = 16,60 ↔ 19,05m	20,6 ↔ 21,7m
Ra_m = 32,7 c/s	32 c/s
t' = 816 ppm e U	799 ppm e U
A = 2,0	0,88

$\sum A_i = 2,88$

Teneur de coupure 1000 ppm e U

Accumulation I		Accumulation II
Cote =	16,95 ↔ 17,35m	21,1 ↔ 21,4m
Ra_m =	52,8 c/s	43,3 c/s
t' =	1319 ppm e U	1083 ppm e U
A =	0,53	0,35

$\sum Ai = 0,88$

3720 0043

KEY FOR DIKE CROSS-SECTIONS, RED BLUFF PROJECT

UNITS

ANDESITE DIKE

UNIT D

UNIT C

UNIT B

ALTERATIONS

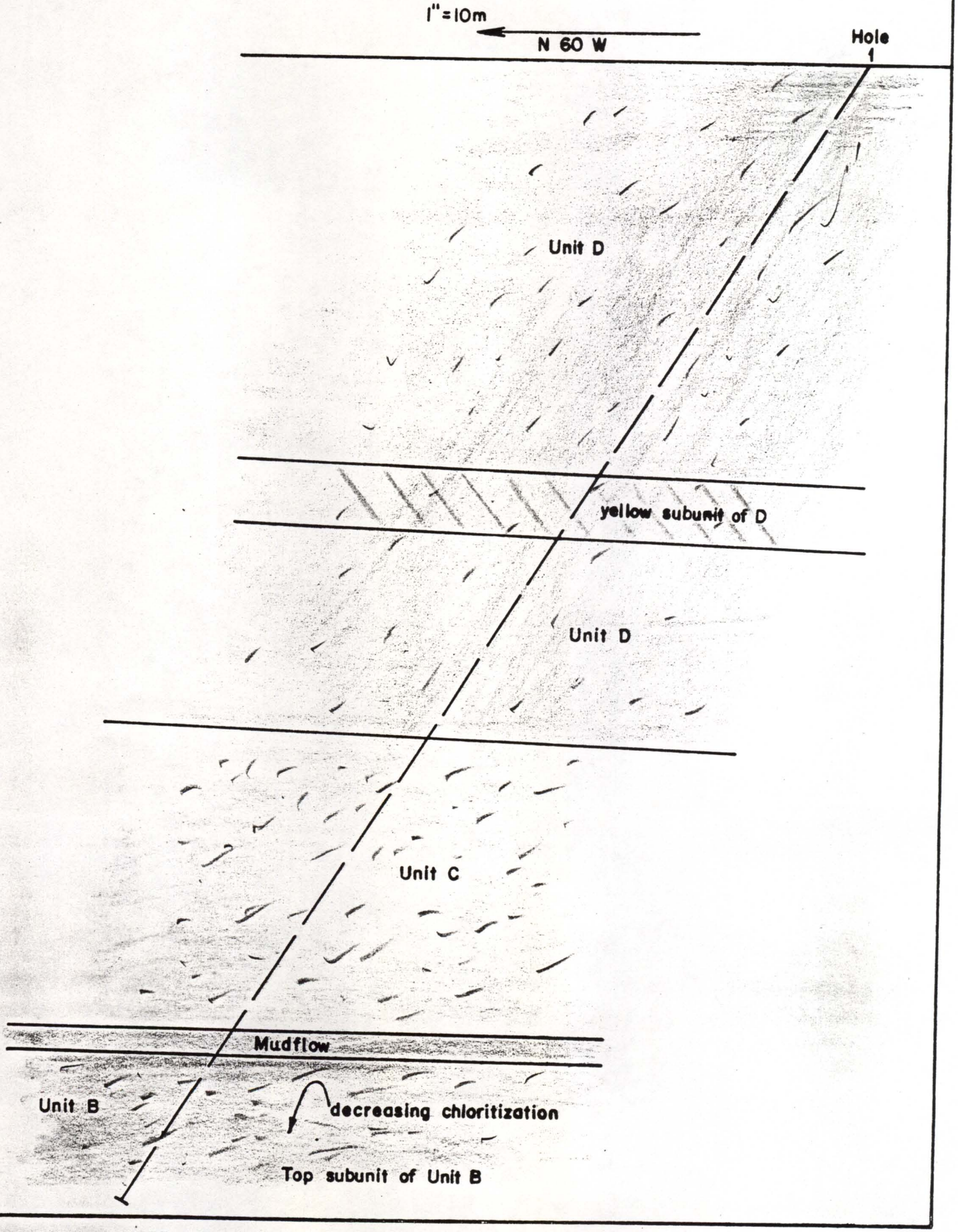
LIGHT TO MODERATE CHLORITIZATION / EXTREME CHLORITIZATION

LIGHT TO MODERATE ARGILLIZATION / EXTREME ARGILLIZATION

LIGHT TO MODERATE SILICIFICATION / EXTREME PERVASIVE SILICIFICATION

LIGHT TO MODERATE HEMATITIC STAIN / EXTREME HEMATITIC STAIN

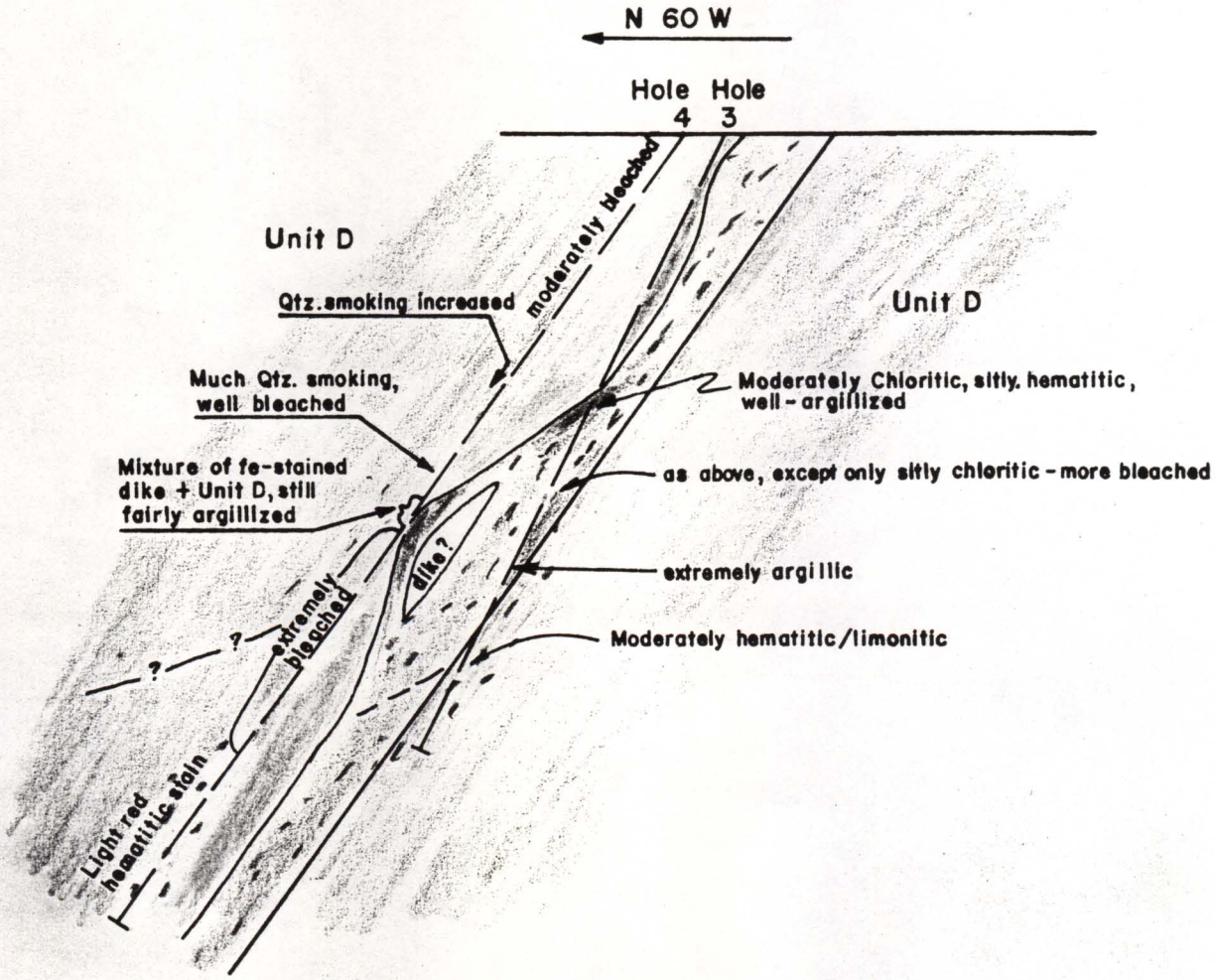
VERTICAL PROFILE RDB 1



PROFILE OF RDB HOLES 3 & 4

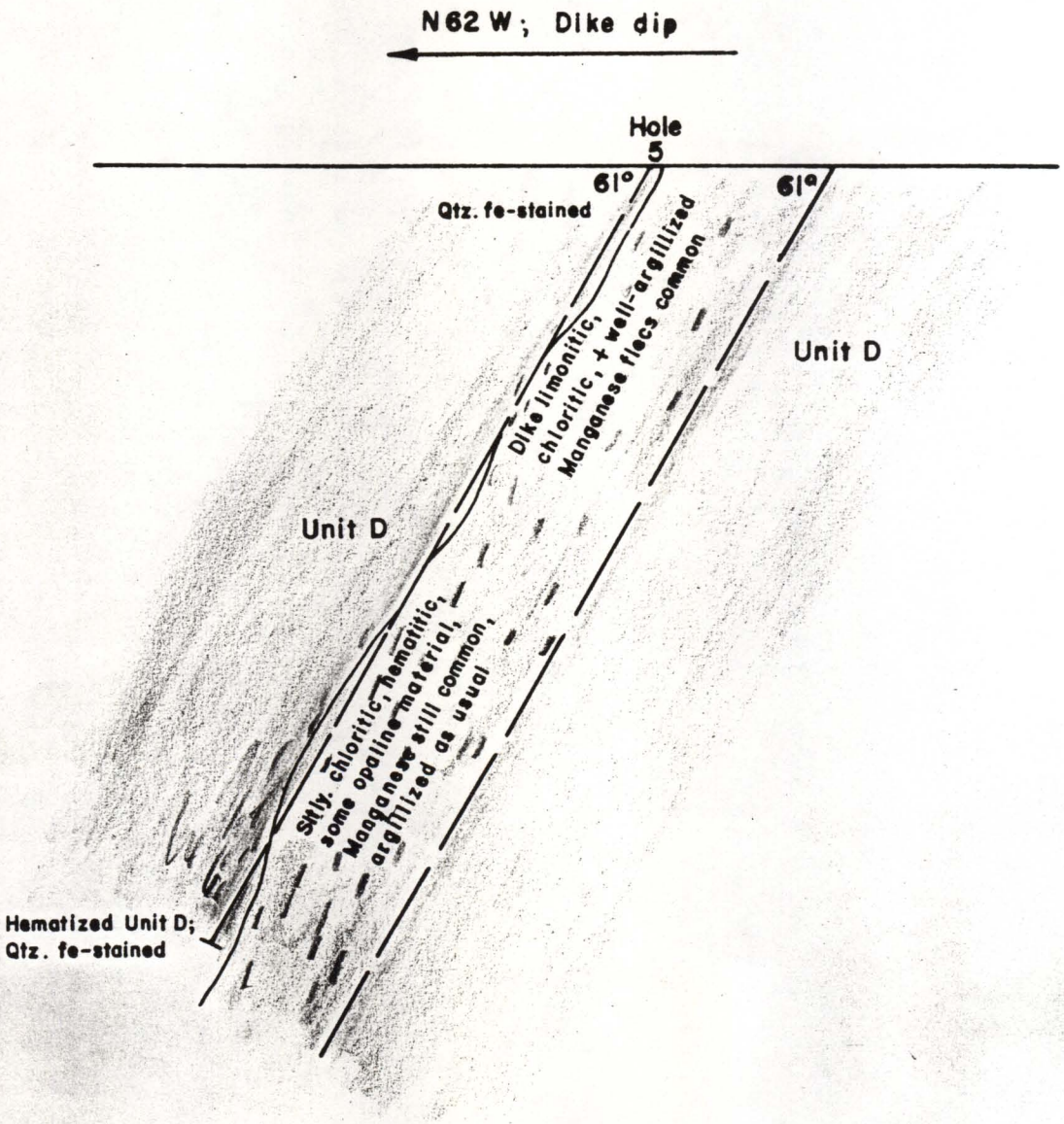
(very doubtful interpretation)

1" = 5 m



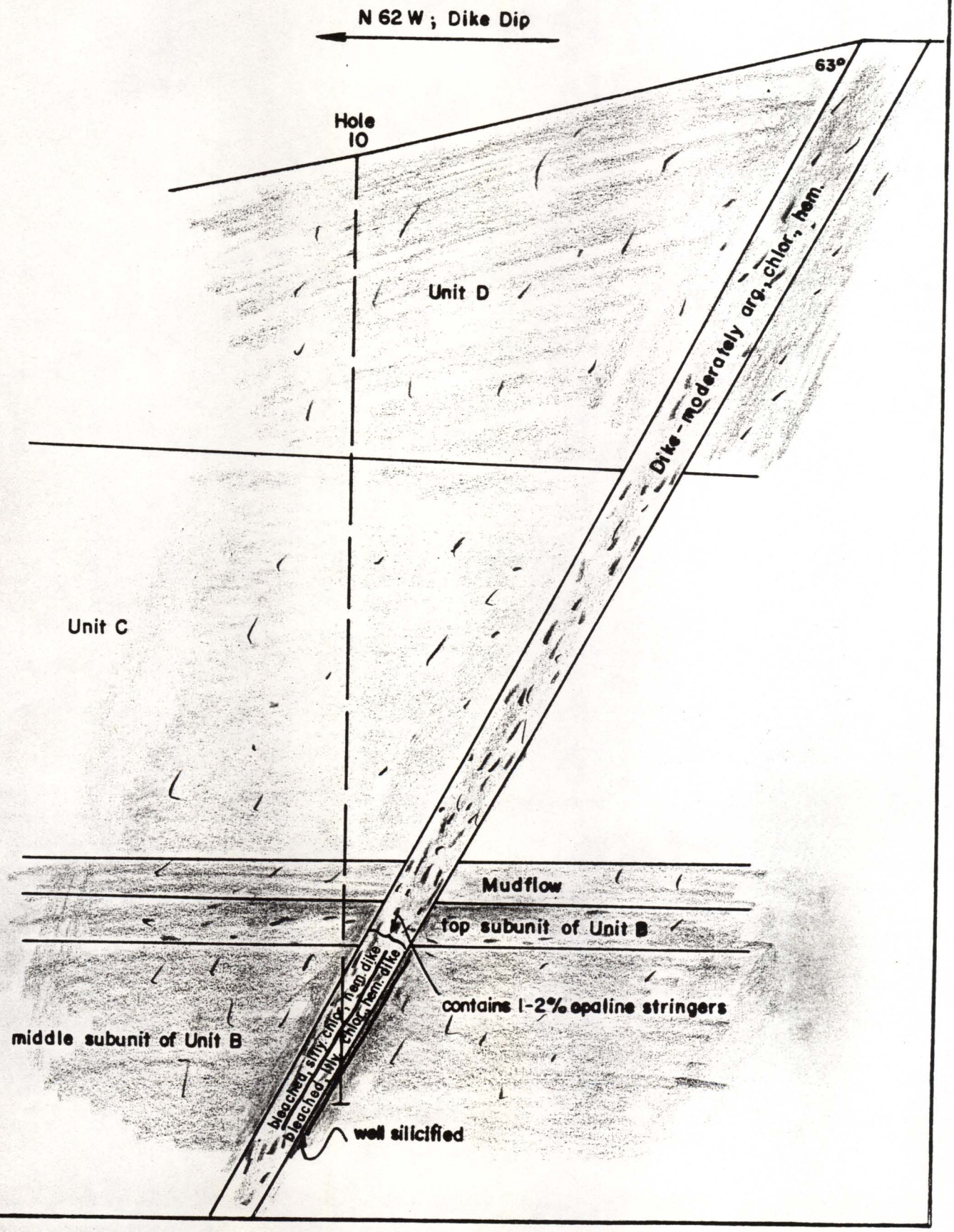
DIKE DIP DIRECTION VERTICAL PROFILE RDB 5

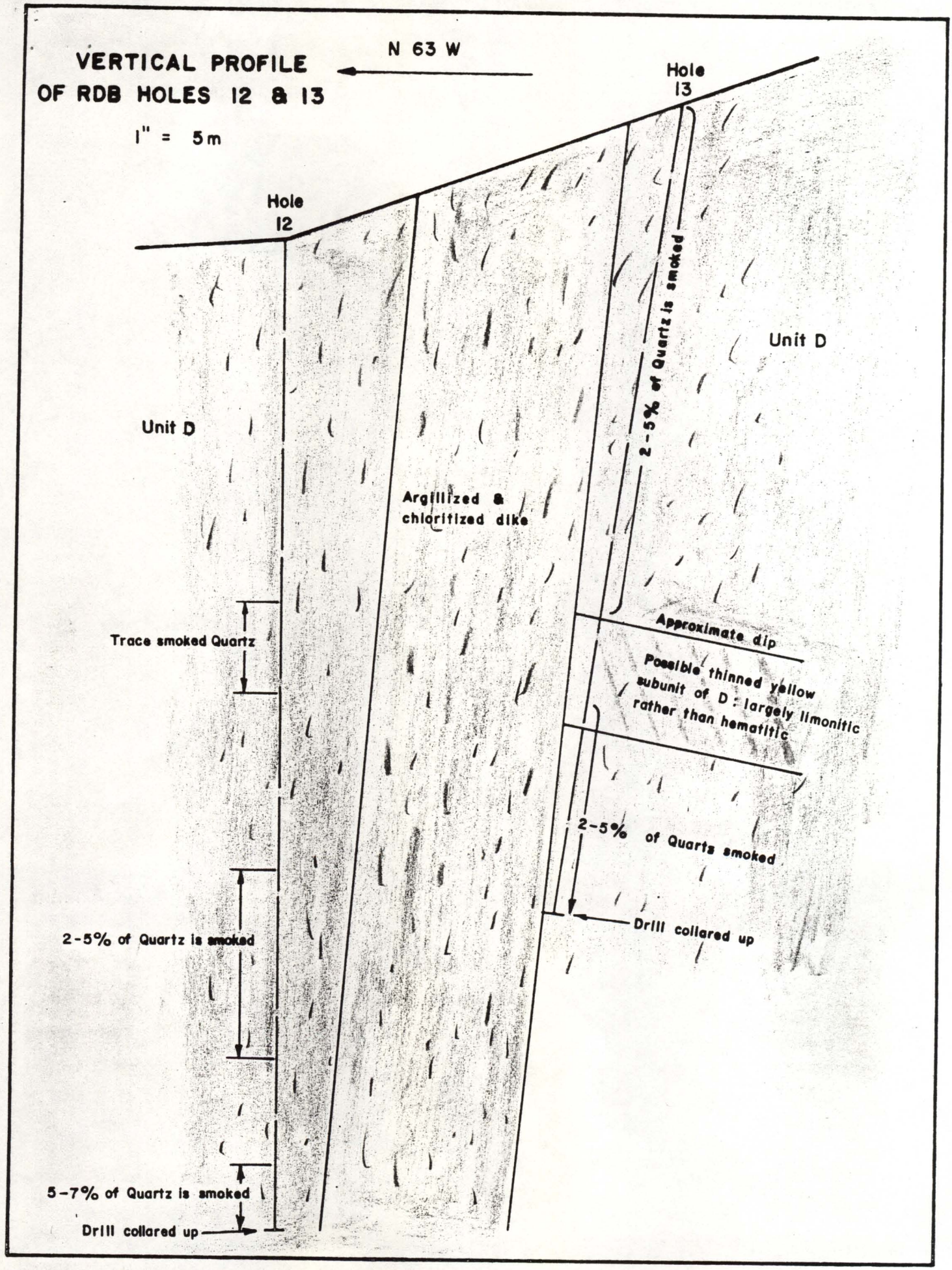
1" = 5m



DIKE DIP DIRECTION VERTICAL PROFILE RDB 10

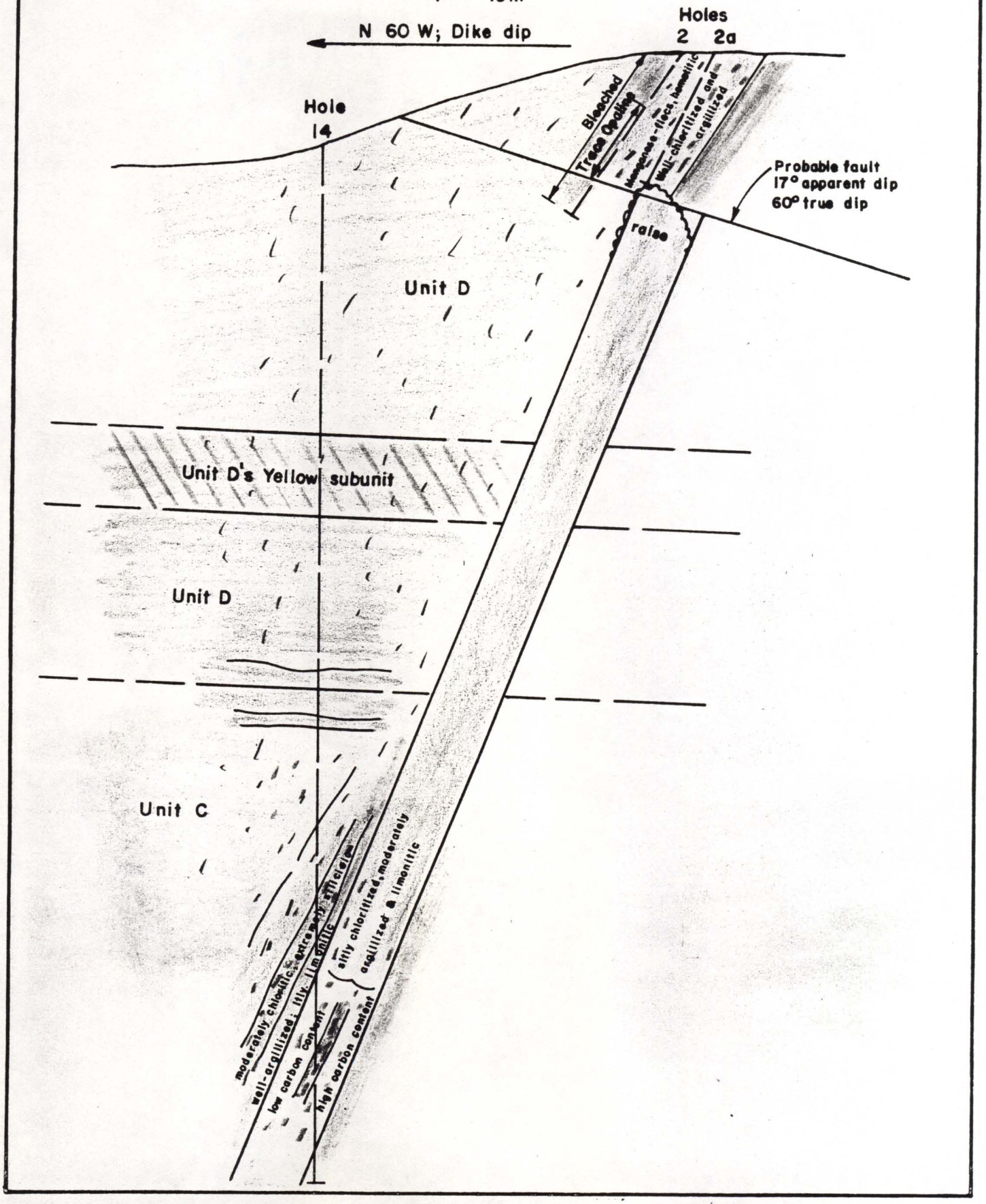
1" = 10m




VERTICAL PROFILE
OF RDB HOLES 12 & 13
1" = 5m
N 63 W
Hole 12
Hole 13
Unit D
Unit D
2-5% of Quartz is smoked
Argillized & chloritized dike
Trace smoked Quartz
Approximate dip
Possible thinned yellow subunit of D: largely limonitic rather than hematitic
2-5% of Quarts smoked
Drill collared up
2-5% of Quartz is smoked
5-7% of Quartz is smoked
Drill collared up

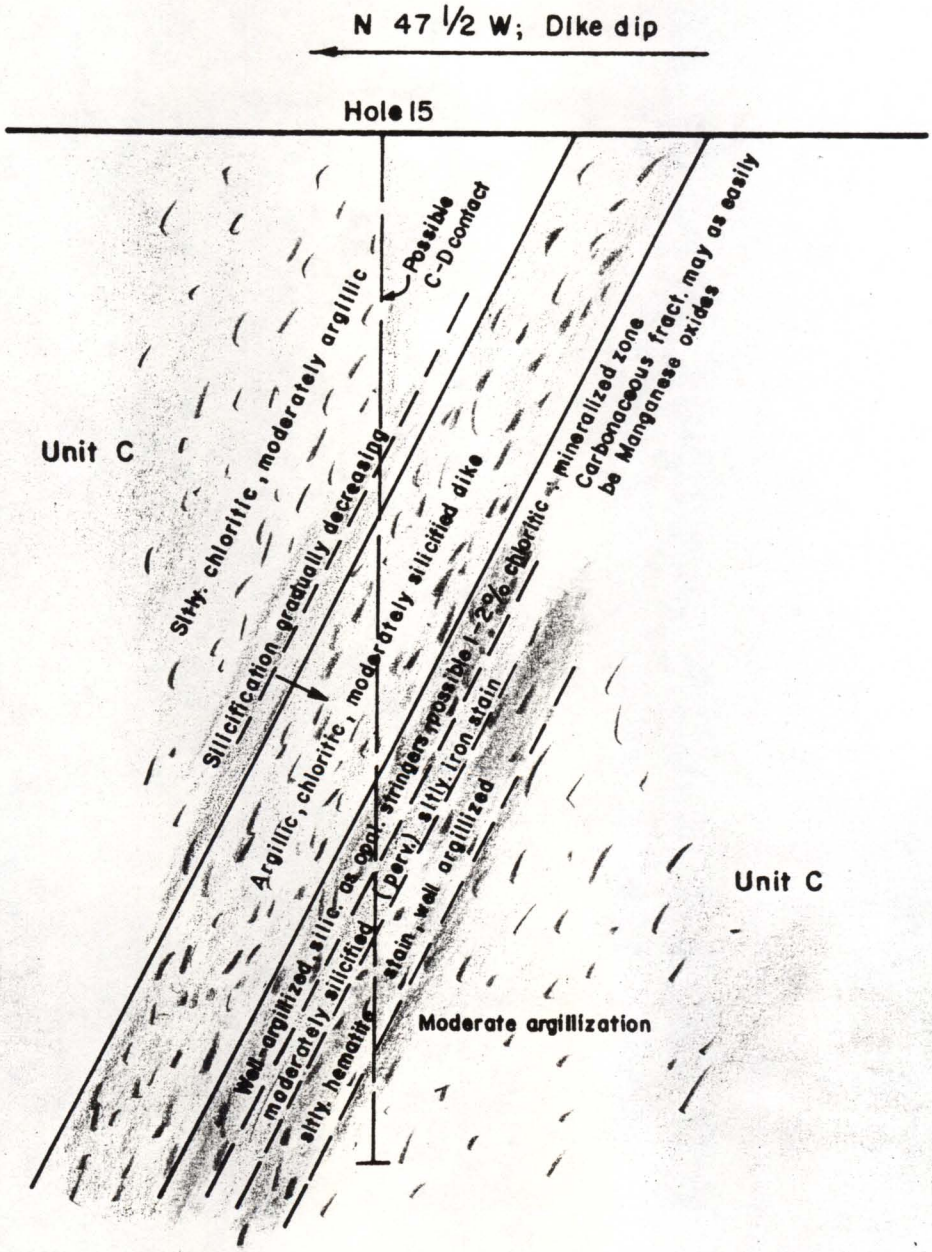
PROFILE OF RDB HOLES 2, 2a & 14

1" = 10m



VERTICAL PROFILE OF RDB HOLE 15

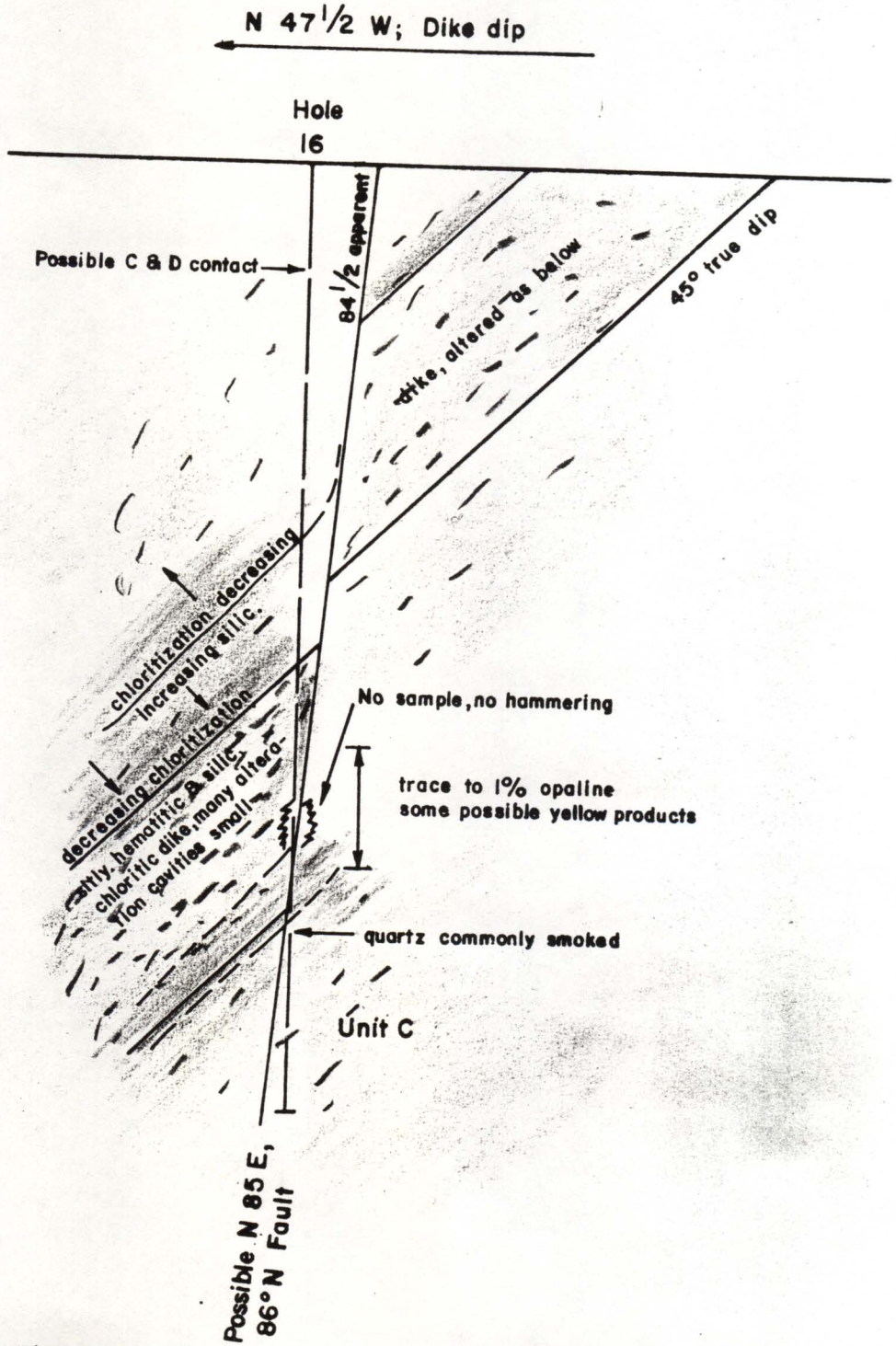
1" = 5m



VERTICAL PROFILE OF RDB HOLE 16

(More hypothetical than usual)

1" = 5m



3720 0043

1984 ANNUAL ASSESSMENT REPORT
RED BLUFF URANIUM PROPERTY
WASHOE COUNTY, NEVADA

Prepared for:
Mr. L. F. Fleming, President
U.S. Mining and Exploration, Inc.
401 College Drive
Reno, Nevada

Prepared by: Laurence H. Beal, Consultant
Minerals Exploration
August 6, 1984

INTRODUCTION

The annual assessment work for the Red Bluff uranium property was carried out during the latter part of July 1984. The writer, accompanied by Mr. L. F. Fleming, spent three days collecting selected samples at the property from July 19-21, 1984. The selected sixty (60) samples collected were subsequently, analyzed for gold and silver by Barringer Resources, Inc., Sparks, Nevada. The objective of the sampling program was to determine if any of the uranium-bearing structures and/or faults at the property contain gold-silver mineralization. Claim work, by the writer, Fleming and Barringer Resources, Inc., aggregated to a cost of more than fifteen hundred dollars ($1,500.00).

The Red Bluff uranium property, located about 25 airline miles north-northeast of Reno, Nevada, consists of 15 unpatented lode claims. The contiguous claims, at the property, include: Last Chance, Last Chance No. 2; Red Top No. 1 & 2; Extension, Red Bluff No. 4, No. 5, No. 6, No. 10, No. 11, Red Bluff Fraction; Lowary No. 7 & No. 8; and Teal.

At the prospect, a narrow diabase dike-zone in the Tertiary rhyolitic formation is the loci for most of the known secondary uranium mineralization. The dike-zone can be traced for over 1,800 feet along strike. According to available reports, the mineralized zone varies in width from a fraction of a foot to several tens of feet.

SAMPLING

No attempt was made to precisely locate sample sites on the accompanying PLATE 1, as each location was marked by flagging in the field. Samples DT 1-10 were collected underground at the Taylor adit. DN 11-14 are samples from a small cut about 200 feet east of the location monument for Red Bluff No. 5. Samples UH 15, UH 16, and LD 17-20 were taken from the Homestake adit area. Samples F 21-32 were collected chiefly along the southeast side of the Fleming cut.

Near the center of the Teal claim, samples D 33-34 were collected from chloritized andesite(?). Samples D 35-40 were from the main Maue Pit. Samples D 41-52 were collected in a cut about 250 feet southwest of the northside-center of Red Bluff No. 4. At the North Cuts area, samples D 53-54 were cut. The Ts 55-60 samples were selected surface samples at and above the Taylor adit portal.

ASSAY RESULTS

The assay results showed weak gold values with little silver from the Homestake adit, the southwestern end of the Fleming cut, and the west portion of the Red Bluff No. 4 cut. Two surface samples above the Taylor adit contained weak gold values and sample Ts 56 carried 2.7 ppm silver.

At current precious metal prices these results are of questionable interest.

ASSAY RESULTS

Sample No.	Au (ppm)	Ag (ppm)	Sample No.	Au (ppm)	Ag (ppm)
DT 1	<0.02	<0.1	F 31	<0.02	<0.1
2			32		
3			D 33		
4			34		
5			35		
6			36		
7			37		
8			38		
9			39		
10			40	0.03	0.2
DN 11			41	<0.02	<0.1
12			42		
13			43		
14			44		
UH 15	0.03	0.1	45		
LH 16	0.04	0.2	46		
LD 17	<0.02	<0.1	47		
18			48		
19			49		
20			50		
F 21	0.02		51		
22	0.03		52		
23	<0.02		53		
24			54		
25			Ts 55		
26			56	<0.02	2.7
27			57	0.04	0.2
28			58	<0.02	<0.1
29			59		
30			60		

OFFICES & MINERALS
LABORATORY:
1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

BARRINGER RESOURCES

31-JUL-84

COPY: 2 OF 2

AUTHORITY: LARRY BEAL

L. H. BEAL
795 WEST 12TH STREET
RENO, NV
89503

WORK ORDER: 2304R-84

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER		AG PPM	AU PPM
DT:	10	<0.1	<0.02
DT:	11	MS	MS
DT:	12	MS	MS
F:	21	<0.1	<0.02
F:	22	<0.1	0.03
F:	23	<0.1	<0.02
F:	24	<0.1	<0.02
F:	25	<0.1	<0.02
F:	26	<0.1	<0.02
F:	27	<0.1	<0.02
F:	28	<0.1	<0.02
F:	29	<0.1	<0.02
F:	30	<0.1	<0.02
F:	31	<0.1	<0.02
LD:	15	MS	MS
LD:	16	MS	MS
LD:	17	<0.1	<0.02
LD:	18	<0.1	<0.02
LD:	19	<0.1	<0.02
LD:	20	<0.1	<0.02
TS:	53	MS	MS
TS:	54	MS	MS
TS:	55	<0.1	<0.02
TS:	56	2.7	<0.02
TS:	57	0.2	0.04
TS:	58	<0.1	<0.02
TS:	59	<0.1	<0.02
TS:	60	<0.1	<0.02
UD:	13	MS	MS
UD:	14	MS	MS

OFFICES & MINERALS
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SPARKS, NEVADA 89431
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BARRINGER RESOURCES

31-JUL-84

COPY: 2 OF 2

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89503

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*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER		AG PPM	AU PPM
D-4:	41	<0.1	<0.02
D-4:	42	<0.1	<0.02
D-4:	43	<0.1	<0.02
D-4:	44	<0.1	<0.02
D-4:	45	<0.1	<0.02
D-4:	46	<0.1	<0.02
D-4:	47	<0.1	<0.02
D-4:	48	<0.1	<0.02
D-4:	49	<0.1	<0.02
D-4:	50	<0.1	<0.02
D-4:	51	<0.1	<0.02
D-4:	52	<0.1	<0.02
D-13:	32	MS	MS
D-13:	33	MS	MS
D-15:	34	<0.1	<0.02
D-15:	35	MS	MS
D-15:	36	MS	MS
D-15:	37	MS	MS
D-15:	38	MS	MS
D-15:	39	MS	MS
D-15:	40	MS	MS
DT:	1	<0.1	<0.02
DT:	2	<0.1	<0.02
DT:	3	<0.1	<0.02
DT:	4	<0.1	0.02
DT:	5	<0.1	<0.02
DT:	6	<0.1	<0.02
DT:	7	<0.1	<0.02
DT:	8	<0.1	<0.02
DT:	9	<0.1	<0.02

OFFICES & MINERALS
LABORATORY:
1455 DEMING WAY, SUITE 15
SPARKS, NEVADA 89431
PHONE: (702) 358-1158

BARRINGER RESOURCES

31-JUL-84

COPY: 2 OF 2

AUTHORITY: LARRY BEAL

L. H. BEAL
795 WEST 12TH STREET
RENO, NV
89503

WORK ORDER: 2304R-84

*** FINAL REPORT ***

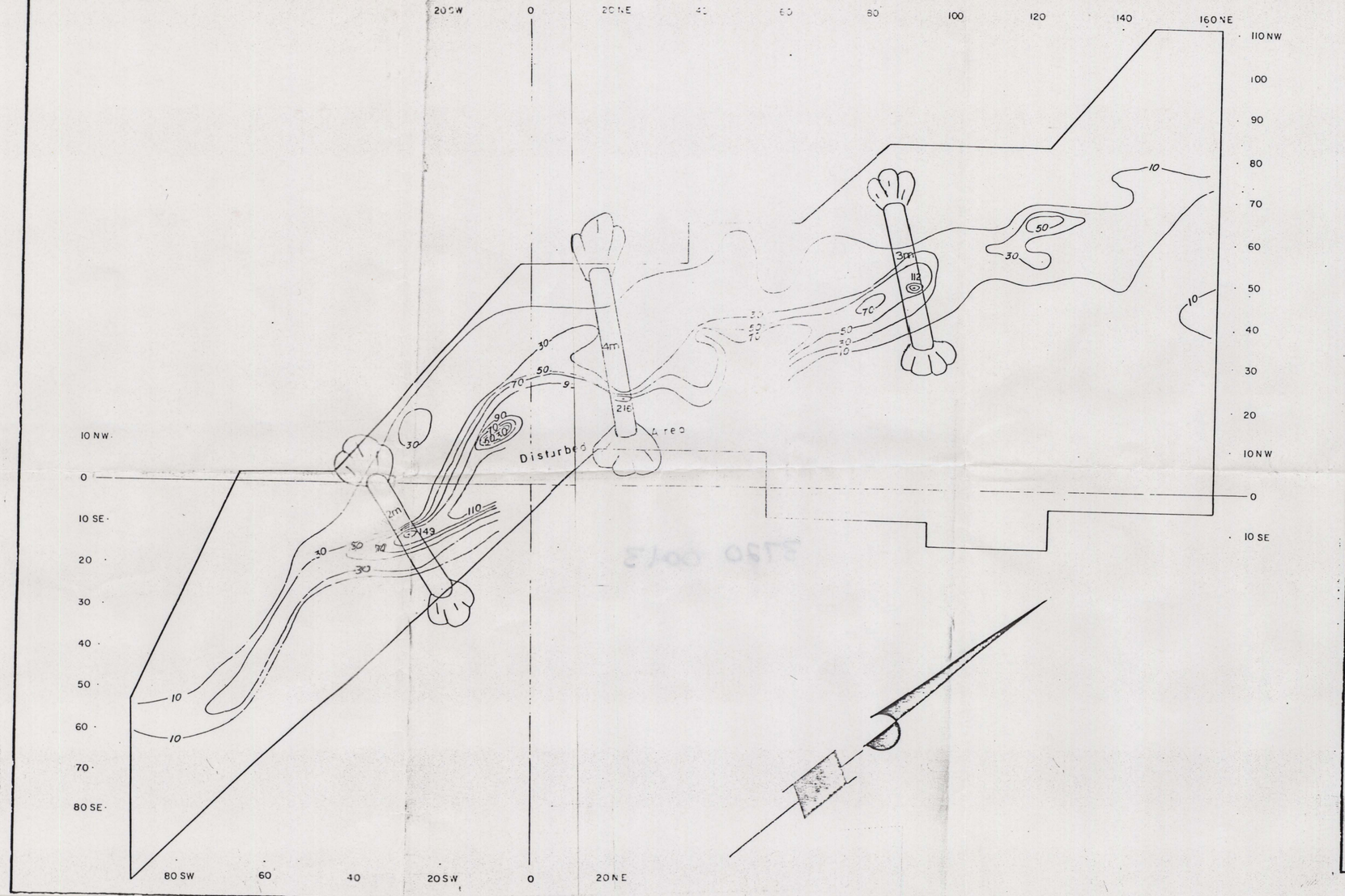
GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

SAMPLE NUMBER		AG PPM	AU PPM
D-5:	53	<0.1	<0.02
D-5:	54	<0.1	<0.02
D-7:	37	<0.1	<0.02
D-7:	38	<0.1	<0.02
D-7:	39	<0.1	<0.02
D-7:	40	0.2	0.03
D-13:	35	<0.1	<0.02
D-13:	36	<0.1	<0.02
D-15:	33	<0.1	<0.02
DN:	11	<0.1	<0.02
DN:	12	<0.1	<0.02
DN:	13	<0.1	<0.02
DN:	14	<0.1	<0.02
F:	32	<0.1	<0.02
LH:	16	0.2	0.04
UH:	15	0.1	0.03

SIGNED: James R. Lee
James R. Lee,
LABORATORY MANAGER

FOOTNOTES:
P=QUESTIONABLE PRECISION; *=INTERFERENCE; TR=TRACE; ND=NOT DETECTED; IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE



MINATOME CORPORATION

EMANOMETER SURVEY

Maue-Mc Cray Hill, Red Bluff Property

Contour interval : 20 emans

: Area of survey

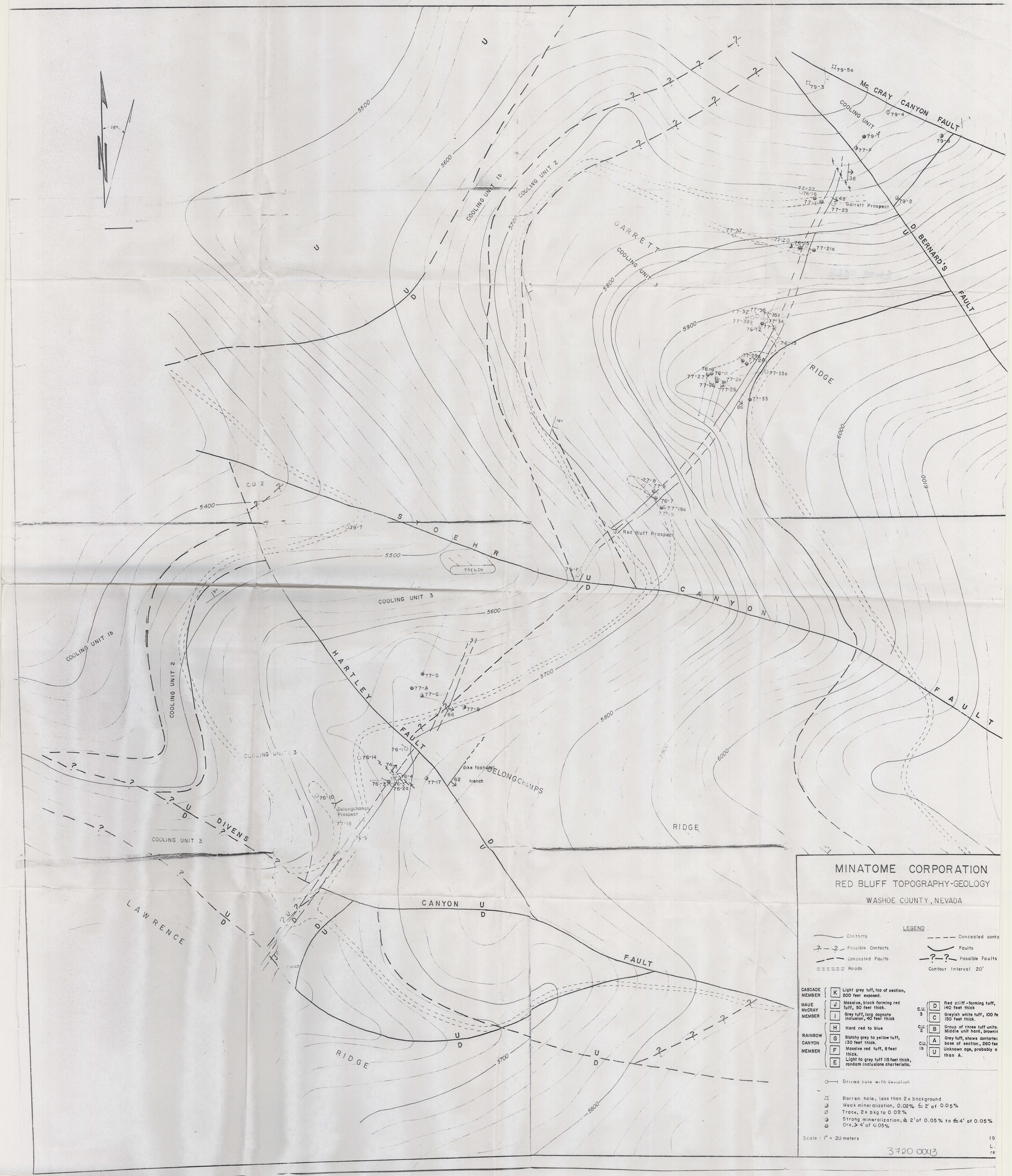
3m : September '77 trench, with depth

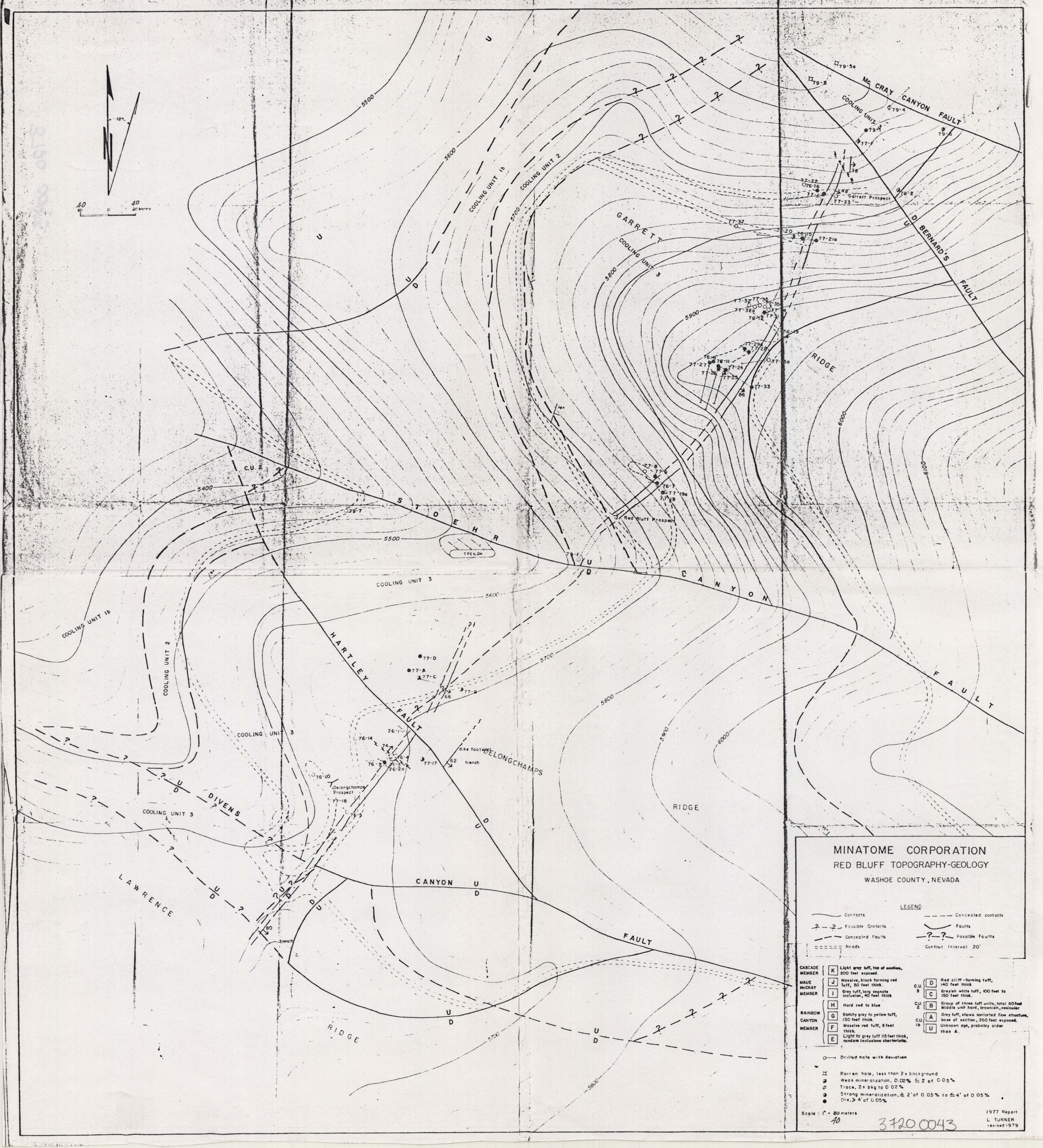
Scale : 1" = 20m

R. L. Badger 1977

Addendum L. Turner 197

37200043


MINATOME CORPORATION
RED BLUFF TOPOGRAPHY-GEOLOGY
WASHOE COUNTY, NEVADA
LEGEND
Contacts
Concealed conta
Possible Contacts
Faults
Concealed Faults
Possible Faults
Roads
Contour Interval 20'
CASCADE MEMBER
K Light grey tuff, top of section, 200 feet exposed.
MAUE McCRAY MEMBER
J Massive, block forming red tuff, 50 feet thick.
I Grey tuff, larg cognate inclusion, 40 feet thick
RAINBOW CANYON MEMBER
H Hard red to blue
G Blotchy grey to yellow tuff, 130 feet thick.
F Massive red tuff, 8 feet thick.
E Light to grey tuff 115 feet thick, random inclusions charteristic.
C.U. 3
D Red cliff-forming tuff, 140 feet thick
C Greyish white tuff, 100 fe 150 feet thick.
C.U. 2
B Group of three tuff units. Middle unit hard, brownis
C.U. 1b
A Grey tuff, shows contorte base of section, 260 fee
U Unknown age, probably o than A.
Drilled hole with deviation
Barren hole, less than 2x background
Weak mineralization, 0.02% ≤ 2' of 0.05%
Trace, 2x bkg to 0.02%
Strong mineralization, ≥ 2' of 0.05% to ≤ 4' of 0.05%
Ore, > 4' of 0.05%
Scale: 1" = 20 meters
3720 0043
McCRAY CANYON FAULT
BERNARD'S FAULT
STOEHR CANYON FAULT
HARTLEY FAULT
DIVENS
LAWRENCE
CANYON FAULT
GARRETT RIDGE
DELONGCHAMPS RIDGE
COOLING UNIT 1b
COOLING UNIT 2
COOLING UNIT 3
C.U. 2
Garrett Prospect
Red Bluff Prospect
Delongchamps Prospect
TRENCH
dike footwall
trench
5400
5500
5600
5700
5800
5900
6000
6100


MINATOME CORPORATION
RED BLUFF TOPOGRAPHY-GEOLOGY
WASHOE COUNTY, NEVADA
LEGEND
Contacts
Concealed contacts
Possible Contacts
Faults
Concealed Faults
Possible Faults
Roads
Contour Interval 20'
CASCADE MEMBER
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C Greyish white tuff, 100 feet to 150 feet thick.
C.U. 2
B Group of three tuff units, total 60 feet Middle unit hard, brownish, vesicular
C.U. 1b
A Grey tuff, shows contorted flow structure, base of section, 260 feet exposed.
U Unknown age, probably older than A.
Drilled hole with deviation
Barren hole, less than 2 x background
Weak mineralization, 0.02% ≤ 2 of 0.05%
Trace, 2 x bkg to 0.02%
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1977 Report
L TURNER
revised 1979
3720 0043
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COOLING UNIT 2
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HARTLEY FAULT
DELONGCHAMPS
Delongchamps Prospect
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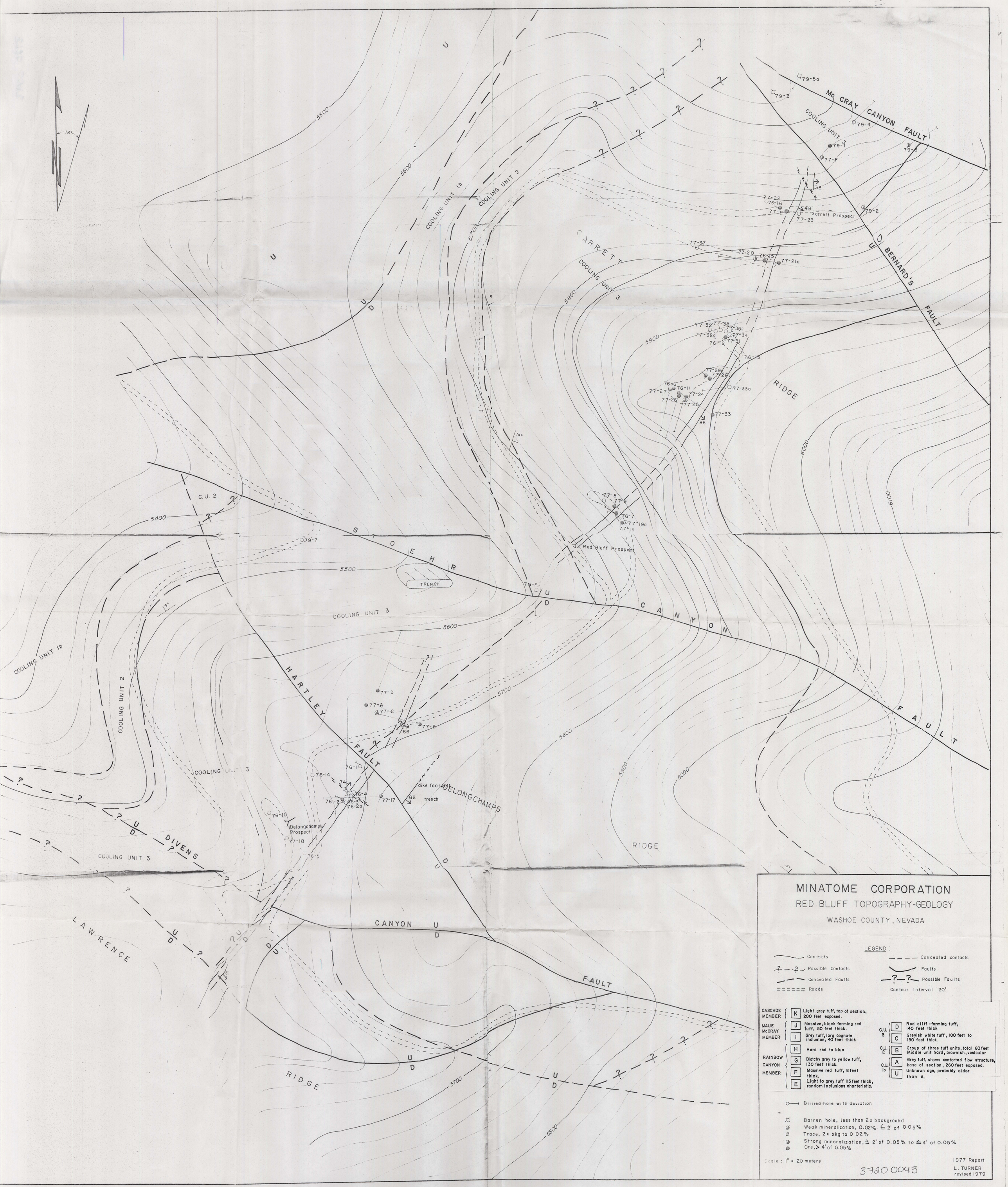
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dike footwall
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5500
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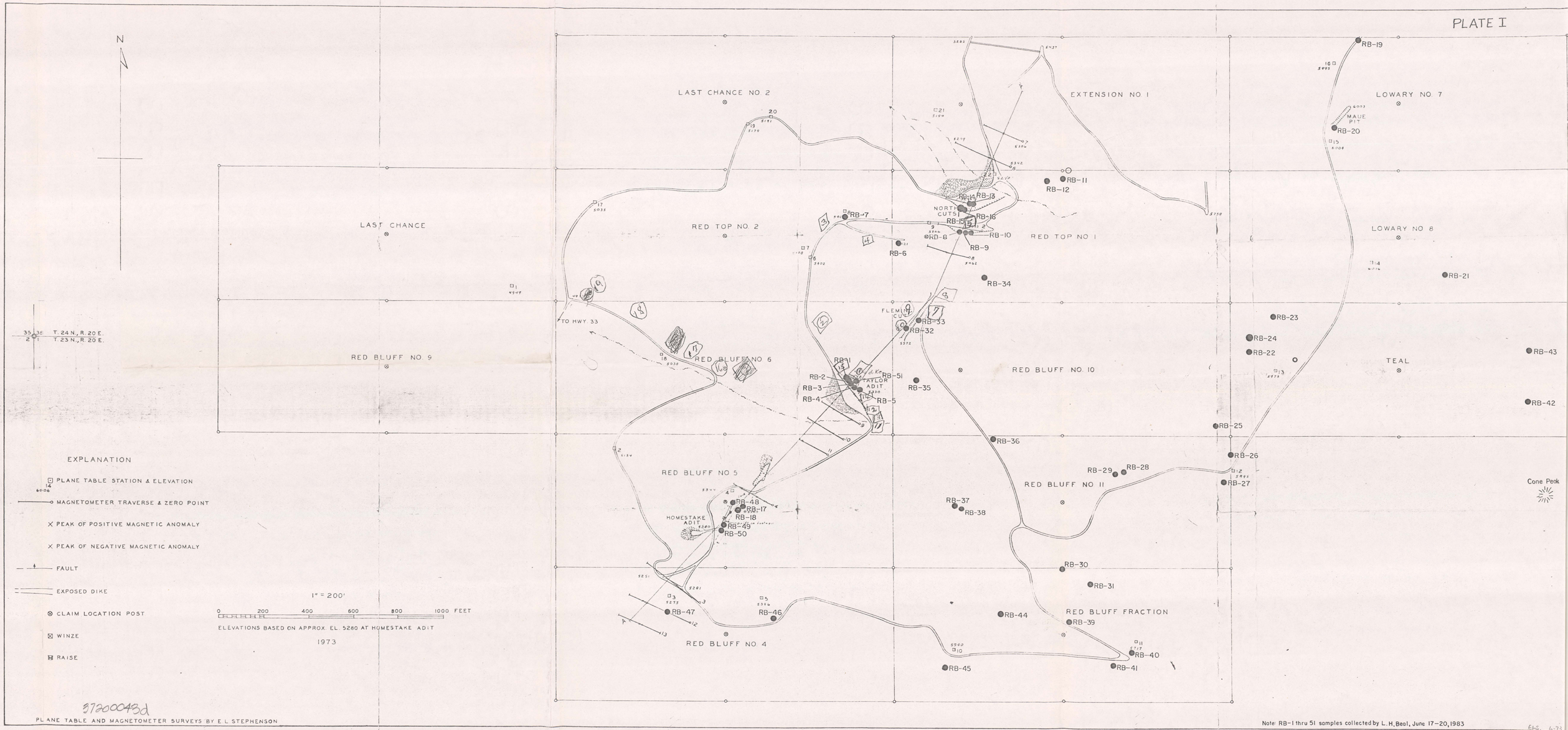
5900
6000
6100
5400

U. S. MINING & EXPLORATION, INC.

PLATE I



PLANE TABLE MAP OF THE RED BLUFF URANIUM PROPERTY, WASHOE COUNTY, NEVADA, SHOWING MAGNETOMETER TRAVERSES