6000 0082 (0760)

Hole #	Footage From	Footage To	Au oz/T	Ag oz/T	Cu %	Fe %	Au	Host Rock Ag	Host Rock Cu	Host Rock Fe
H-1	878.2	888.5	N/A	N/A	0.14	N/A			Bx dio ? w/ py & cp	
	890	903.7	N/A	N/A	0.22	↓			Bx dio w/ py & cp	
	903.7	913.4	N/A	N/A	0.08	↓			"Skarn" w/ cp & mag	
	919.6	921.7	Tr	N/A	0.07	55.4			90% mag	
	1111.8	1120.9	Tr	0.15	N/A	N/A			Bx dio w/ dissem py	

6000 0082 (0760) 19

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5262
BRANCH OFFICE: 34 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

CABLE: HANX

ABBOT A. HANKS, INC.
ESTABLISHED 1866

1300 SANSOME STREET • SAN FRANCISCO 11, CALIFORNIA • EXBROOK 7-2464

Engineers
Assayers
Chemists
Metallurgists
Spectrographers
Soils and Foundations
Consulting · Testing · Inspecting

LABORATORY REPORT

December 4, 1963

Deposited by: Robert L. Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample of Ore
DDH. #H-1
919 6 921 7

Labty. No.	Mark	PERCENTAGE, %	
3642-3	604R	Gold	Trace
		Copper	0.07
		Iron	55.42

ABBOT A. HANKS, INC.
By Charles J. Taylor
Charles J. Taylor

SC

CA-105

6000 0082 (0760) 20

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8 5262
BRANCH OFFICE: 61 JORDAN STREET • SAN RAFAEL • GLENWOOD 4 8650

CABLE: HANX

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REPORT OF ASSAY

December 20, 1963

Deposited by Robert Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample of Ore

Labty. No.	Mark	GOLD, per ton of 2,000 lbs. Troy Ounces	GOLD, per ton of 2,000 lbs. Value at $35.00 oz.	SILVER, per ton of 2,000 lbs. Troy Ounces	SILVER, per ton of 2,000 lbs. Value at	Percentages
3728	#605 R	Trace		.15		

1111 8 to 1120 9 = 9 1'

Hotenlot DDH #H1

Core Split

ABBOT A. HANKS, INC.

By Charles J. Taylor

Charles J. Taylor

BC

CA-106 5M 2-62

6000.0082 (0760) 21

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5262
BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

CABLE: HANX

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LABORATORY REPORT

Lab. No. 3728

Date December 20, 1963

Submitted by Robert Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample Mark #605 R

1111.8 to 1120.9

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Nickel	Potassium	Iron		Silicon
Cobalt	Titanium	Aluminum		
Vanadium	Manganese	Calcium		
Chromium		Sodium		
Copper		Magnesium		
Zinc				
Silver				
Zirconium				

Remarks

ABBOT A. HANKS, INC.
By Charles J. Taylor
Spectro-Chemist
Charles J. Taylor

3C
FA-108

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5202
BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

60000 0082 (0760) 22

CABLE: HANX

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LABORATORY REPORT

Lab. No. 3642-3

Date December 4, 1963

Submitted by Robert L. Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample Mark 603R
DDH # H 1
903 7 - 913 4

QUALITATIVE SPECTROGRAPHIC ANALYSIS

Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Sodium Potassium Titanium [illegible] [illegible] Chromium Lead	Copper	Aluminum Magnesium Manganese	Iron Calcium	Silicon

ABBOT A. HANKS, INC.

By Charles J. Taylor
Spectro-Chemist

Charles J. Taylor

SC
CA100

6000 0082 (0760) 23

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5262
BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

CABLE: HANX

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LABORATORY REPORT

Lab. No. 3642-2

Date December 4, 1963

Submitted by Robert L. Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample Mark 602R
DDH #1
890° – 903?

QUALITATIVE SPECTROGRAPHIC ANALYSIS

Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Potassium Nickel Cobart Chromium [illegible]er	Sodium Titanium Copper	Iron Aluminum Magnesium Manganese	Calcium	Silicon

ABBOT A. HANKS, INC.

By Charles J. Taylor
Spectro-Chemist

Charles J. Taylor

SC

CA-106

6000 0082 (0760) 24

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5262
BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

CABLE: HANX

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LABORATORY REPORT

Lab. No. 3642-1

Date December 4, 1963

Submitted by Robert L. Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample Mark 601R

DDH H-1 878.2 - 882.0
882.0 - 886.5 waste No 5
886.5 - 888.5

QUALITATIVE SPECTROGRAPHIC ANALYSIS

Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Potassium Nickel Cobalt Chromium S[illegible] Mo[illegible]denum Zirconium	Sodium Titanium Copper	Iron Aluminum Magnesium Manganese	Calcium	Silicon

ABBOT A. HANKS, INC.

By Charles J. Taylor
Spectro-Chemist

Charles J. Taylor

SC
CA-108

6000 0082 (0760) 25

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5262
BRANCH OFFICE: 34 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

CABLE: HANX

ABBOT A. HANKS, INC.

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LABORATORY REPORT November 22, 1963

sited by: Robert L. Redmond
1080 Pine Ridge Drive
Reno, Nevada

This was "magnetite ore."

Sample of Iron Ore 712°- 744°

DH 1
MAIN HOTTENTOT

oty. No.	Mark	PERCENTAGE, %		
5-3595	Hottentot #1, 712-744	Iron	52.85	magnetite
		Silica	13.30	qtz veins
		Phosphorus	0.11	
		Sulfur	2.88	pyrite
		Titanium	0.01	
		Copper	0.06	cpy
		Nickel	0.01	
		Zinc	nil	
		Vanadium	nil	

ABBOT A. HANKS, INC.

By Charles J. Taylor

Charles J. Taylor

L105

BRANCH LABORATORY: 1066 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5762
BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

6000 0082 (0760) 26

CABLE: HANK

ABBOT A. HANKS, INC.
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LABORATORY REPORT

Lab. No. 3595

Date November 22, 1963

Submitted by Robert L. Redmond
1080 Pine Ridge Drive
Reno, Nevada

Sample Mark Hotttentot #1
712-744

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Sodium Titanium Nickel Cobalt [illegible]ium	Manganese Copper	Aluminum Magnesium	Silicon Calcium	Iron

Phosphorous not found spectrographically on this sample. Phosphorous is quite insensitive and would not likely be detectable in the concentration determined by the chemical method.

ABBOT A. HANKS, INC.
By Clifford H. Merriman
Spectro-Chemist

Charles J. Taylor

CA-103 BC

6000 0082 (0760) 27

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5202
BRANCH OFFICE: 34 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

CABLE: HANX

ABBOT A. HANKS, INC.

ESTABLISHED 1866

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LABORATORY REPORT

December 12, 1963

Deposited by: Robert L. Redmond
1080 Pine Ridge Road
Reno, Nevada

Sample of Ore

DDH #1

Labty. No.	Mark	PERCENTAGE, % COPPER		PERCENTAGE, % LEAD	
3642-1	601R 878 2 - 882 / 882 - 886 5 waste / 886 5 - 888 5	0.14	2.8 pounds.		
3642-2	602R 890 - 903 7	0.22	4.4 pounds.	0.05	1 pound
3642-3	603R 903 7 - 913 4	0.08	1.6 pounds.	0.06	1.2 pounds
3642-4	604R 919 6 - 921 7			0.04	.8 pound.

SC

ABBOT A. HANKS, INC.
By Charles J. Taylor
Charles J. Taylor

CA-105

60000 0082 (0760)

A-1

DRILL LOG

COMPANY NAME Walker Mar[illegible] Mining Company

MINE Hottentot | COORDINATES OF COLLAR: | SHEET 1 OF 8 | SCALE 1"=10'

LOCATION | N | BY EFL | AU. #

HOLE NO. H 1 | E | DATE 1964

BEARING | LENGTH OF HOLE 1228' | CASING No

DIP Vertical | HOLE SIZE 4½" to 223'; NX 223-1228'

Boyles Bros. Drilling Co.

ACCOMPANIED BY NARRATIVE LOG YES [X] NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
	Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu			REF. MAP
NC																				
NX									50		Rhyolitic tuff									
									30											
									45											
230																				
									50											
									65											
240									65											
250																				
									65											
											Vitric tuff									
									25											
260																				
									65											
									45											
									25											
									75											
270																				
									40											
									15											

28

280
290
300
310
320
330
340
350
30
45
30
55
60
65
45
65
45
55
45
45
Vitric tuff
45
75
65
65
65
30
40
45
60
25
20
65
65
35
35
65
65
35
50
65
60
30
35
45
45
60

DRILL LOG

COMPANY NAME Walker Martel Mining Company

MINE Hottentot

COORDINATES OF COLLAR:

SHEET 2 OF 8

SCALE 1"=10'

LOCATION

N

BY EFL

AU.

HOLE NO. H 1

E

DATE

BEARING

LENGTH OF HOLE 1228'

CASING

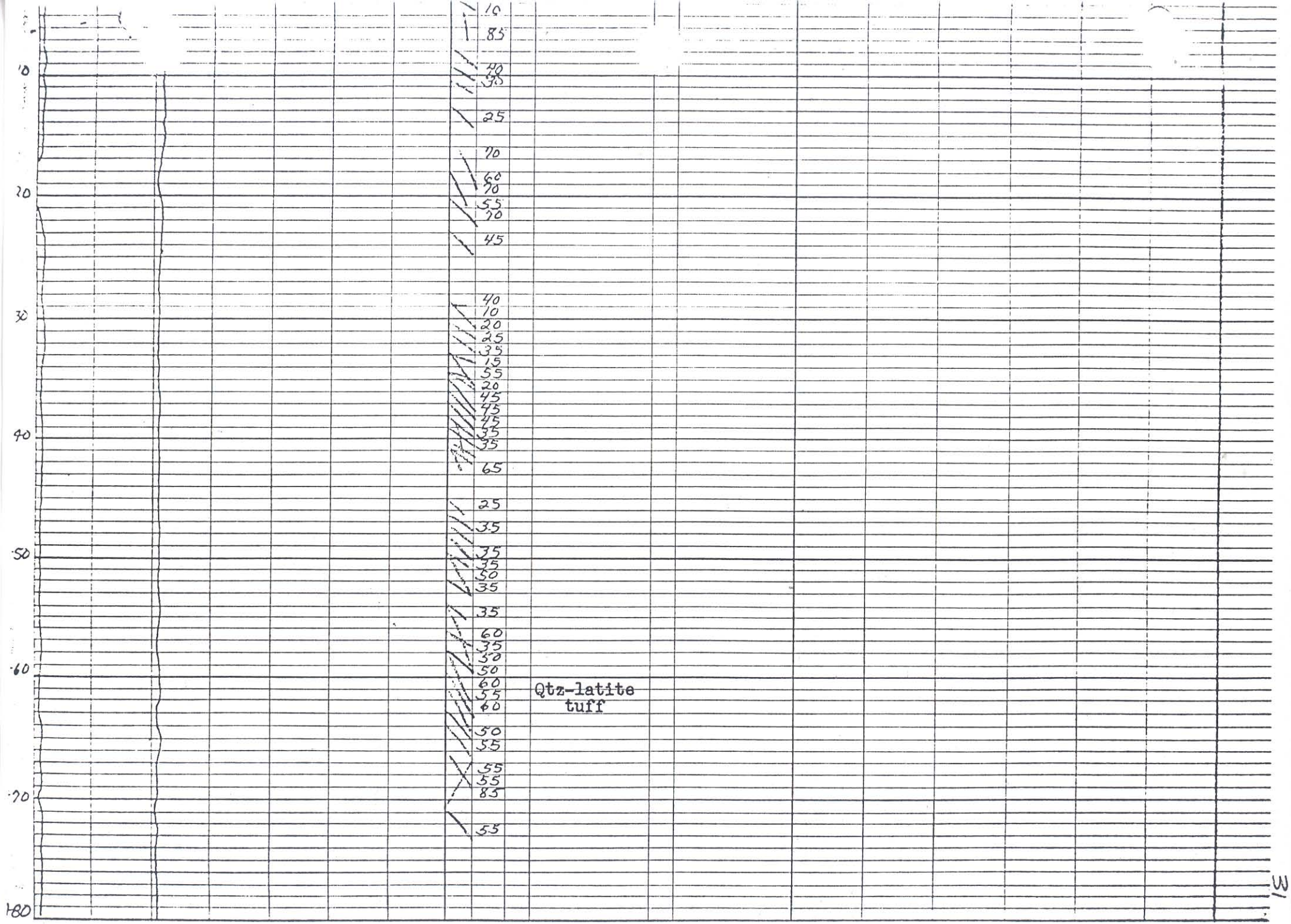
DIP Vertical

HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES [X] NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
	Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu			MFE
350									40		Vitric tuff									
									25											
									45											
									35											
									30		Qtz-latite tuff									
									35											
360																				
									65											
370																				
									35											
									70											
									40											
									45											
380									66											
									10		Qtz-latite tuff									
									60											
									25											
									35											
									45											
									35											
									20											
390									35											
									35											
									15											
									10											
									40											
400									10											
									80											

80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85
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40
30
25
70
60
70
55
70
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45
45
35
35
65
25
35
35
35
30
35
35
60
35
30
50
60
55
60
Qtz-latite
tuff
50
55
55
55
85
55
10
20
30
40
50
60
70
80

LL LOG

COMPANY NAME Walker Ma. Mining Company

MINE Hottentot | COORDINATES OF COLLAR: | SHEET 3 OF 8 | SCALE 1"=10'

LOCATION | N | BY EFL | AU. $

HOLE NO. H 1 | E | DATE

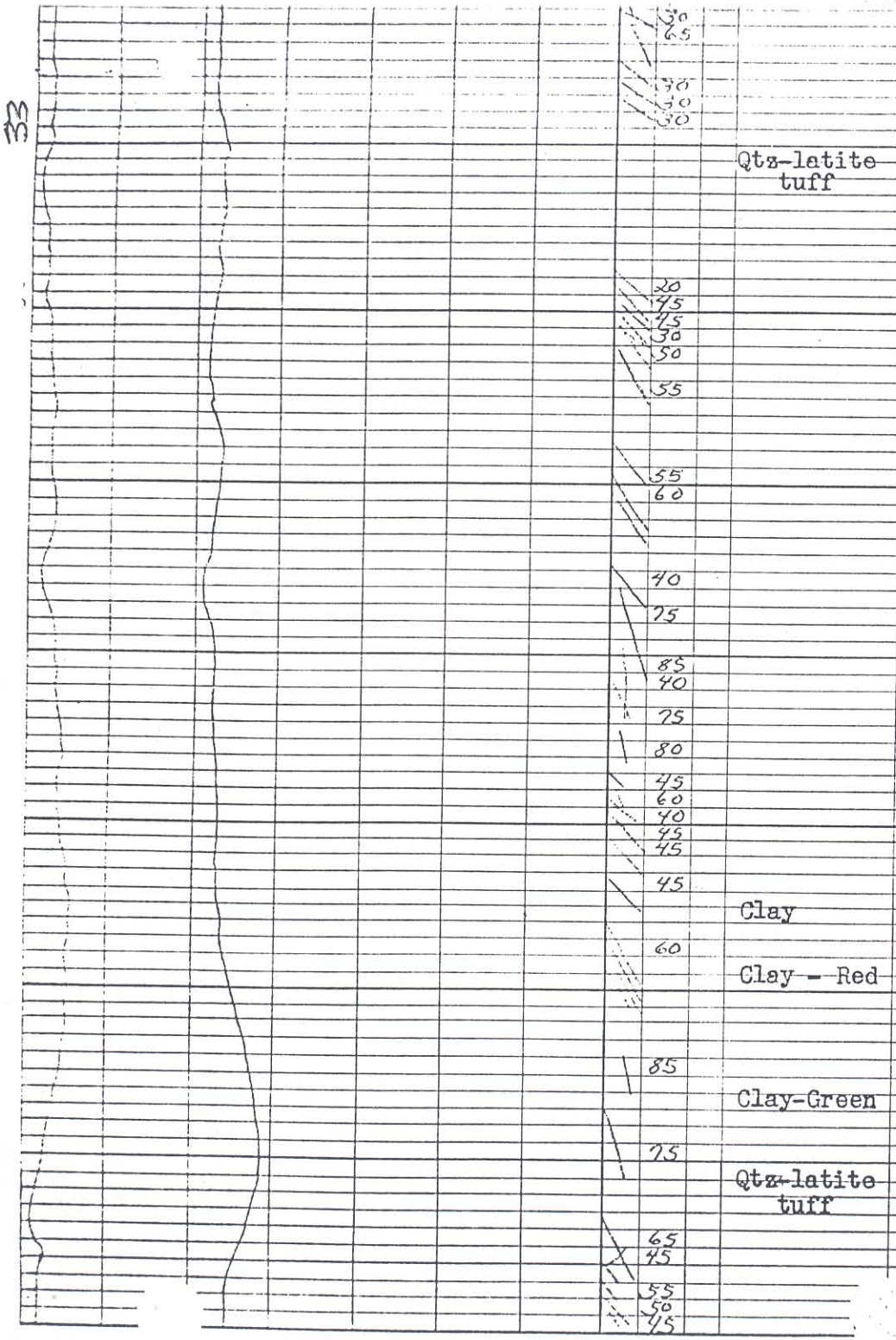
BEARING | LENGTH OF HOLE 1228' | CASING

DIP Vertical | HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES [X] NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
	Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu			ME
480									35		Qtz-latite tuff									
490									35											
									30											
									65											
									30											
									70											
									55											
									60											
500									60											
									55											
									80											
									75											
									70											
									70											
510									25											
									60											
									60											
									55											
									25											
									85											
520									60											
									75											
									70											
									65											
									65											
									60											
									50											
530									60											
									30											
									75											
									70											
									30											
									65											

32


30
65
30
30
30
Qtz-latite tuff
20
45
45
30
50
55
55
60
40
75
85
40
75
80
45
60
40
45
45
45
Clay
60
Clay - Red
85
Clay-Green
75
Qtz-latite tuff
65
45
55
50
45

DRILL LOG

COMPANY NAME Walker Mart lning Company

MINE Hottentot | COORDINATES OF COLLAR: | SHEET 4 OF 8 | SCALE 10'

LOCATION | N | BY EFL | AU. %

HOLE NO. H 1 | E | DATE

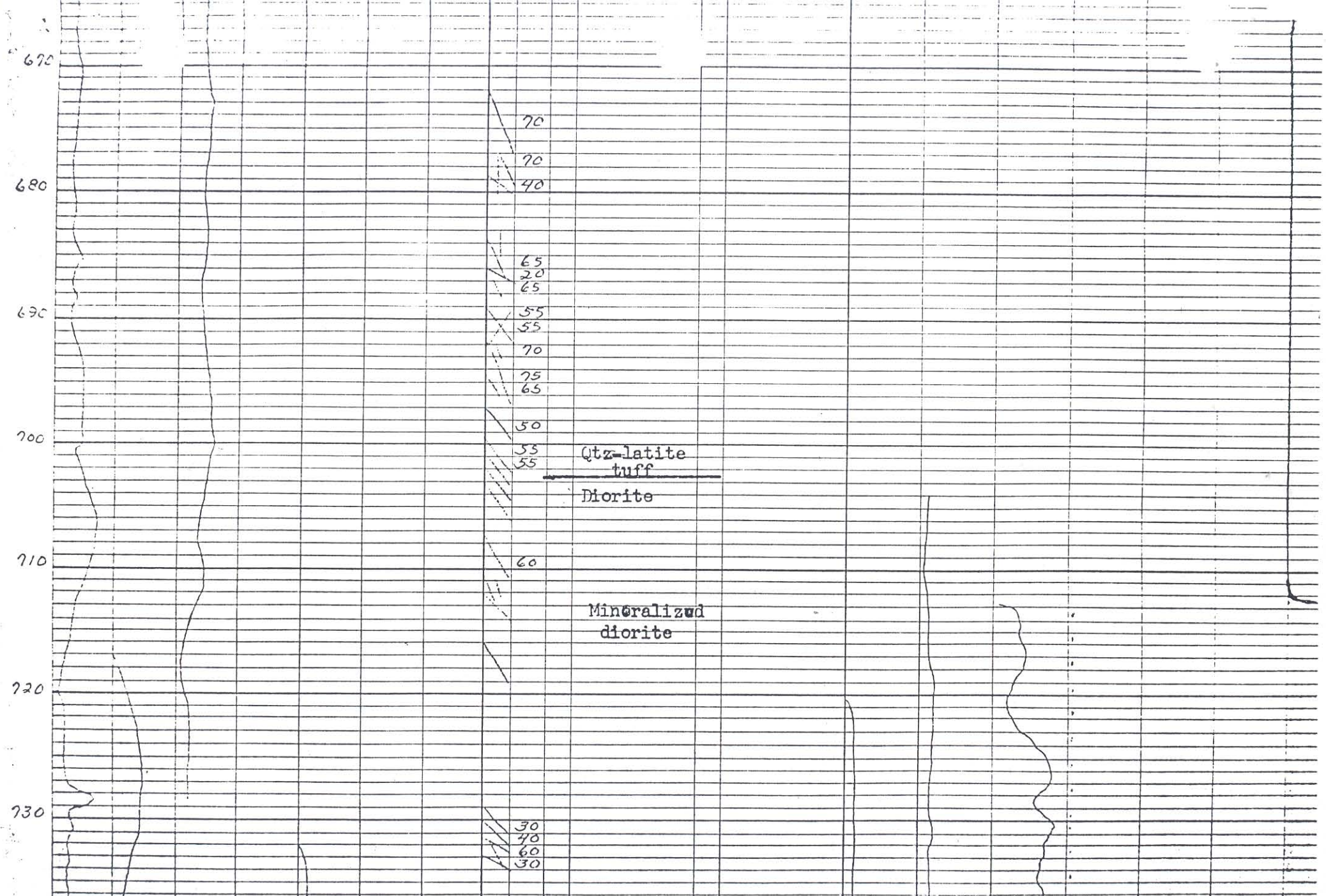
BEARING | LENGTH OF HOLE 1228' | CASING

DIP Vertical | HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES X NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
	Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu			MAF
610											Qtz-latite tuff									
									55											
620									55		Qtz-latite tuff									
									55											
									55											
									35											
									60											
630																				
									70											
									50											
									65											
									50											
640																				
									55											
									45											
									45											
									65											
									65											
650									60											
									65											
									60											
660									80											
									65											
									25											

34


670
680
690
700
710
720
730
740
70
70
40
65
20
65
55
55
70
75
65
50
55
55
60
30
40
60
30
Qtz-latite tuff
Diorite
Mineralized diorite

L LOG

COMPANY NAME Walker Mar Mining Company

1"=10'

MINE Hottentot

COORDINATES OF COLLAR:

SHEET 5 OF 8

SCALE

LOCATION

N

BY EFL

AU.

HOLE NO. H 1

E

DATE

BEARING

LENGTH OF HOLE

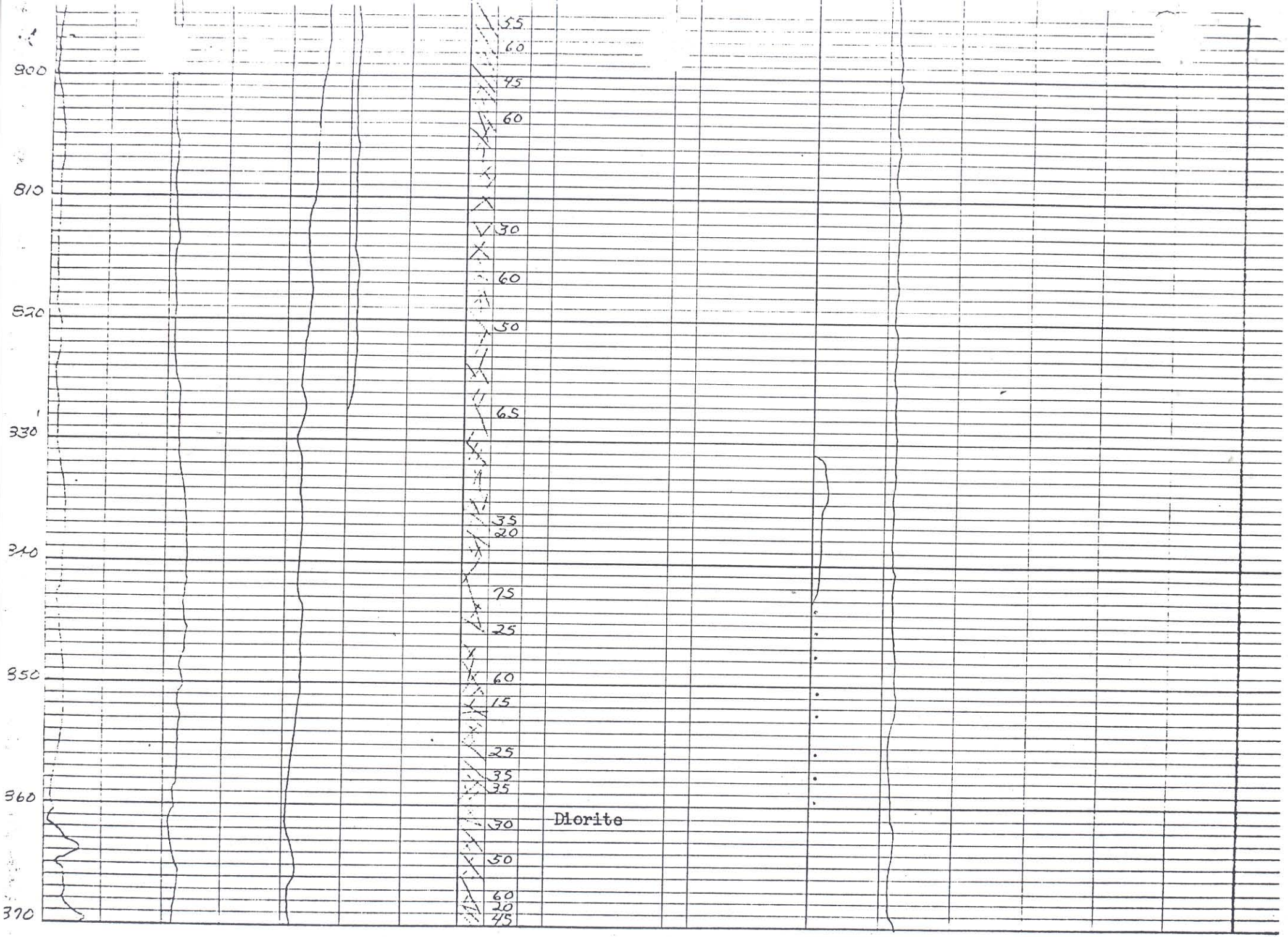
CASING

DIP Vertical

HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES X NO

ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu			
740								60											
								55		Diorite									
								50											
								55											
750								65											
								50											
								50											
								55											
760																			
770								40											
								40											
								40											
								40											
								40											
								50											
780								45		Diorite									
								65											
								65											
790								55											
								55											


900
810
820
830
840
850
860
870
55
60
45
60
30
60
50
65
35
20
75
25
60
15
25
35
35
30
50
60
20
45
Diorite

DRILL LOG

COMPANY NAME Walker Marvel Mining Company

MINE Hottentot

COORDINATES OF COLLAR:

SHEET 6 OF 8

SCALE 1"=10'

LOCATION

N

BY EFL

AZ.

HOLE NO. H 1

E

DATE

BEARING

LENGTH OF HOLE

CASING

DIP Vertical

HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES [X] NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION				
	Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu	
870									30 35		Diorite							
									40									
880											Mineralized diorite							
890									65		Diorite							
									40									
									55									
900									30 40 35		Mineralized diorite							
									35									
									40									
910									25									
									65									
									35 40		Diorite							
920									35		Mineralized diorite							
									50 45		Diorite							

930
940
950
960
970
980
990
1000
Diorite
33
25
15
30
30
45
45
45
65
45
35
45
55
45
65
75
45
45
25
50
55
55
30
30
30

-L LOG

COMPANY NAME Walker Mart. dining Company

MINE Hottentot | COORDINATES OF COLLAR: | SHEET 7 OF 8 | SCALE 1"=10'

LOCATION | N | BY EFL | AU.

HOLE NO. H 1 | E | DATE

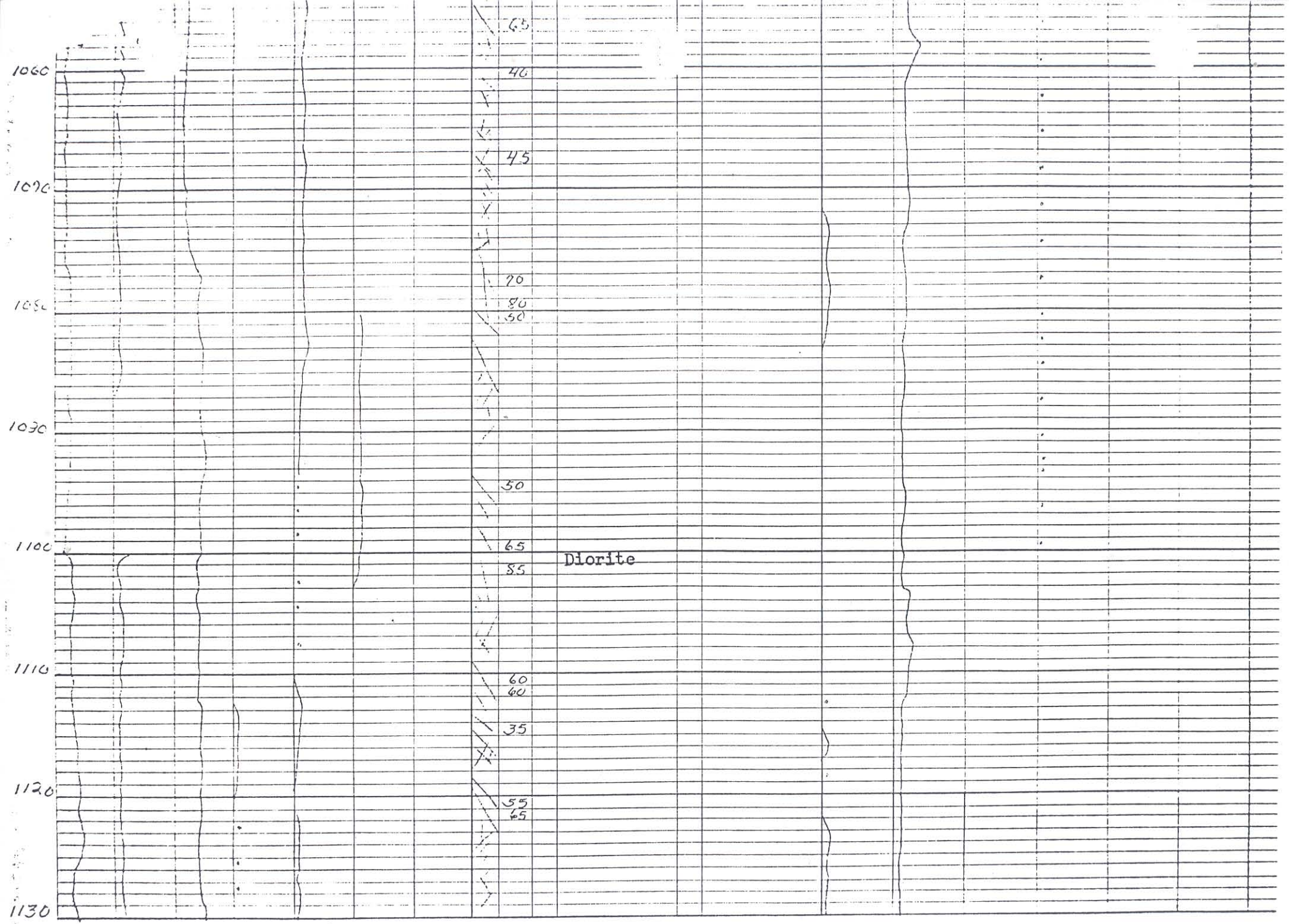
BEARING | LENGTH OF HOLE 1228' | CASING

DIP Vertical | HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES X NO

ALTERATION							LOG AND ROCK TYPE						MINERALIZATION					
Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu		
1000								60		Diorite								
								15										
								30										
								15										
								70										
1010																		
								35										
								45										
								35										
								10										
								50										
1020								40/20		Diorite		Diorite						
								65										
								55										
1030								35										
								65										
1040								20										
								55										
								60										
								55										
								20										
								65										
1050								65										

8


1060
1070
1080
1090
1100
1110
1120
1130
65
40
45
70
80
50
50
65
55
Diorite
60
60
35
55
65

MINE: Hot' 'ot

LOCATION:

HOLE NO.: H 1

BEARING:

DIP: Vertical

COORDINATES OF COLLAR:

N:

E:

LENGTH OF HOLE: 1228'

HOLE SIZE:

SHEET 8 OF 8

BY: EFL

DATE:

CASING:

ACCOMPANIED BY NARRATIVE LOG YES X NO

ALTERATION							LOG AND ROCK TYPE						MINERALIZATION					
Chlo	Carb	Arg	Ser	Sili	Alb	Orth	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu		
										Diorite								
								50										
								60										
								75										
								50										
								80										
								75										
								35										
								85										
								85										
								40										
								85										
								85										
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								65										
								85										
								85										
								65										
								65										
								45										
								45										
								65										
								75										
								30		Diorite								
								60										
								50										

30

40

50

60

70

80

42

1190
1200
1210
220
50
40
35
50
30
35
30
40
50
50
15
80
30
35
50
60
50
85
50
50
20
35
85
15
20
Bottom: 1228'

Drill Log
H-1 Penetrated a major fault zone
Hottentot.. Nev
6000'0082
44

223.0 - 231.8 Rhyolitic, pyroclastic, reddish in color due to surface oxidation, with orthoclase, plagioclase(?), quartz, biotite, hornblende, glass shards, and glassy groundmass. Orthoclase up to 1/8 inch across; inclusions of rhyolite, andesite, and dacite(?) up to 3/4 inch across. Groundmass altered to a montmorillonite type clay, and phenocrysts altered to a kaolinit type clay. Small amount epidote and hematite at 228 feet, hematite occuring as thin films along fractures. Epidote scattered throughout groundmass. Numerous fractures 30 to 60°

231.8 - 236.2 Rhyolitic tuff, gray, slightly altered to white kaolinitic clays, small amount of hornblende and biotite.

236.2 - 251.8 Gouge, stained reddish by hematite, containing fragments of rhyolitic tuff, dacite(?), and andesite. Altered almost completely to clays.

251.8 - 252.2 Rhyolitic tuff with phenocrysts of orthoclase and plagioclase in a glassy groundmass that has been almost completely altered to a clay, but with some phenocrysts of plagioclase fairly fresh; contains some inclusions of andesite and dacite(?).

252.2 - 256.5 Gouge - same as above

256.5 - 260.4 Vitric tuff, white, containing orthoclase, biotite, hornblende, and glass shards in a glassy groundmass, with a few quartz crystals, and a few scattered grains of epidote. Approximately 50% argillized.

260.4 - 272.9 Vitric tuff with orthoclase, biotite, hornblende, glass shards and fragments up to ½ inch across, with a few scattered quartz crystals; biotite anhedral to euhedral, with a few wisps of hornblende, the hornblende being slightly chloritized.

272.9 - 301.5 Same as above. The biotite is slightly oxidized between 277.8 and 278.2, and the biotite is slightly chloritized. Occasional inclusions of rhyolitic tuff, andesite, and dacite?.

301.5 - 338.2 Vitric tuff, white, with orthoclase, 3-5% biotite, small amount quartz, and glass shards and fragments in a glassy groundmass; glassy groundmass almost completely altered to clays, and biotite slightly chloritized; small amounts of limonite pseudomorphic after magnetite or biotite; numerous fractures at 30 to 65°; a few scattered grains of magnetite between 310.5 and 319.2, and between 328.5 and 338.2, the latter partially oxidized to limonite; not as highly altered between 328.5 and 338.2. Occasional inclusions.

338.2 - 347.6 Same as above except not as highly altered, probably the bottom of the surface weathering effects.

713' - 1,228' = low grade Fe - Cu

D.D. - 713'

347.6 - 356.8 Vitric tuff - same as above, but with less alteration, slightly zeolitic and with a few scattered calcite veinlets.

356.8 - 384.9 Quartz latite vitric tuff, containing approximately 30% orthoclase, 30% plagioclase, 10% quartz, 5% biotite, a few scattered grains of hornblende, with glassy shards and groundmass; biotite and hornblende partially chloritized, and considerable chlorite along some fracture planes; small amount of zeolite in places; very slight alteration; numerous fractures at 25 to 70°; magnetite scattered sporadically throughout the groundmass, and partially oxidized.; some manganese oxides along fractures, and a trace of copper at 383.

384.9 - 441.2 Quartz latite welded tuff, approximately same composition as above, but containing more inclusions of rhyolite, dacite(?), and andesite, from 422.9 to 431.7 fragments up to 2 inches; Small amount copper stain at 396.9 and some opaline material.

441.2 - 536.9 Quartz latite welded tuff, with up to 10% quartz, and 5 - 7% biotite, and a few scattered grains of hornblende; small amount epidote along inclusions and around altered hornblende; magnetite as scattered grains and also along fracture planes, partially oxidized; a small amount of celadonite between 460 and 470; a small amount of argillization of the feldspar and groundmass, and slight chlorization of the biotite and hornblende; a few limonitic pseudomorphs after magnetite; slight copper staining between 441 and 450; inclusions up to 1 inch across in varying amounts; more argillization along fracture planes between 517 and 527; fractures from 15 to 75°.

536.9 - 546.0 Rhyolitic tuff, partially welded, with orthoclase, small amount of plagioclase, 5-10% quartz, and 3-7% biotite, with glass shards and glassy groundmass; coarse texture; numerous inclusions of other volcanics;

546.0 - 565.2 Same as above, but somewhat more argillized, and also increasing amounts of chlorite, giving a greenish color to the rock; small amount of copper stain at 460; magnetite grains more oxidized.

565.2 - 575.0 Same as above, but up to 20% chloritized, and with considerable increase in argillization.

575.0 - 584.4 Quartz-latite tuff, greenish in color, with orthoclase, plagioclase phenocrysts, 10-15% quartz, 5-10% biotite, 1-5% hornblende, and with inclusions up to 4 inches across, medium to coarse grained, but somewhat more coarse at 581.8 to 584.4; small amount magnetite, partially oxidized; groundmass argillized, with red iron oxides staining along fracture planes; considerable chloritization of biotite and hornblende, and of groundmass.

Volcanics

584.4 - 585.0 Same as above, but with decreasing grain size.

585.0 - 589.4 Clay - greenish in color

589.4 - 596.0 Clay - stained brick-red by iron oxides; probably an old erosion surface, showing oxidation.

596.0 - 600.0	Clay - gray in color; fractures at 75°; almost completely argillized and partially chloritized.
	This zone from 585.0 to 604.5 may be partially fault gouge at an old erosion surface.
600.0 - 603.0	Appears to be latitic in composition; fine-grained, with considerable fine grained biotite, part of which may be secondary.
603.4 - 605.0	Quartz latite (?) tuff - fine to medium grained, white, with numerous inclusions, contains orthoclase, plagioclase, quartz, biotite, hornblende, and considerable glass; slightly argillized.
605.0 - 610.0	Same as above but with more inclusions.
610.0 - 619.0	Quartz latite tuff - coarse grained, loosely consolidated, greenish in color; orthoclase and plagioclase, 3 - 5% biotite, 1 - 2% hornblende, quartz, glass shards, and glassy groundmass; inclusions up to 2-6" of dacite, basalt, andesite, latite, granite; a few scattered grains of magnetite, partially oxidized; considerably chloritized, and partially argillized.
619.0 - 629.0	Same as above - with a few scattered blebs of quartz, probably introduced.
629.0 - 666.0	Same composition as above, but medium to coarse grained; bedding dips 20° to core; a few thin beds made up of 40 to 60% glass; at 644 a 6" gouge at 45°; in places almost completely argillized, and partially chloritized; afew scattered grains of magnetite.
666.0 - 676.0	Same composition as above - but darker green in color, and up to 80% inclusions from 1 to 6" across of basalt, dacite, and andesite; strongly chloritized and argillized, with a small amount of epidote.
676.0 - 703.2	Latitic tuff - fine to medium grained, somewhat coarser - grained from 699.7 to 703.2; greenish in color; contains orthoclase, plagioclase, 5-7% quartz, 5-7% biotite, and 1-3% hornblende; glassy shards and glassy groundmass; with numerous inclusions of dacite, andesite, and basalt; a few scattered grians of magnetite, partially ozidized; strongly chloritized and argillized, with considerable epidote.
703.2 - 713.0	Shear zone - with heavy clay and gouge, 706.4 - 710.0 brecciated with rounded fragments;
713.0 - 729.2	Magnetite ore - vein filling and replacement of gouge and breccia; partially slickensided; calcite interstitial to magnetite; pyrite scattered sporadically throughout the magnetite with an occasional grain of chalcopyrite; magnetite euhedral to anhedral, with veinlets of calcite and quartz cutting it; chlorite and epidote in groundmass, and a small amount of chloritized actinolite; Sugary and euhedral crystals of quartz in vugs; numerous small scalenohedrons of calcite along fractures and in vugs; small amount of copper oxide ; some specimen of core contains up to 3% sulfides.

729.2 - 743.4	Magnetite ore - same as above, but with varying amounts of magnetite, with sporadic pyrite and chalcopyrite; considerable more calcite and quartz veinlets from 738.6 to 743.4.
743.4 - 746.9	Gouge - heavy clay and brecciated and crushed dioritic material, with smalllmagnetite and scattered pyrite; chloritized.
746.9 - 752.9	Fault breccia - dioritic; almost completely chloritized and argillized. with scattered pyrite.
752.9 - 756.0	Diorite, with numerous phenocrysts of plagioclase (albite?) in a silicified groundmass, containing approximately 30% plagioclase laths, which may be secondary albite; scattered pyrite; chloritized.
756.0 - 757.6	Gouge - crushed dioritic material.
757.6 - 767.0	Diorite, brecciated, greenish in color; silicified and partially albitized; numerous laths of plagioclase in groundmass, with scattered pyrite and a few grains of arsenopyrite (?); plagioclase partially argillized.
767.0 - 780.1	Same as above - but with larger amounts of hornblende; some plagioclase laths surrounded by rings of quartz; numerous quartz veinlets with pyrite; hornblende and biotite chloritized, especially along fracture planes; considerable pyrite at 774, and increased calcite at 775.0; fracture zones highly argillized and chloritized.
780.1 - 786.2	Fault breccia - increased amounts of calcite; gouge and brecciated material chloritized.
786.2 - 789.1	Diorite - containing plagioclase, orthoclase, quartz, actinolite, fresh biotite, with scattered pyrite; partially silicified and chloritized, with fair amount of calcite.
789.1 - 825.5	Diorite - brecciated; greenish in color; with up to 60% plagioclase phenocrysts, partially albitized; numerous fracture planes, rendonly oriented; gouge in fractures completely argillized and chloritized; diorite and fragments partially silicified; scattered pyrite.
825.5 - 833.5	Gouge - gray to black, completely argillized and chloritized.
833.5 - 876.1	Diorite - brecciated; greenish in color; same composition as above; small amount actinolite; partailly chloritized; numerous veinlets of quartz, and in some areas partially crushed with gouge; groundmass silicified; considerable shearing from 861 to 870; some zeolte in vugs; groundmass and goauge moderate to heavy chlorization and argillization; pyrite scattered throughout groundmass, agouge, and veinlets.

876.1 - 878.2 Gouge, heavy, dark green to black in color, up to 10% pyrite in gouge; gouge completely argillized and chloritized.

878.2 - 882.0 Magnetite ore - low grade; magnetite occurs as pods, blebs, and veins in chloritized country rock; contains some epidote and garnet.

882.0 - 888.5 Same as above but with varying amounts of magnetite from 5 to 30%; the section from 884 to 886 with only scattered magnetite; and this section is highly brecciated and almost completely argillized and chloritized; from 886.5 to 888.5 numerous veinlets of calcte and quartz with up to 5% pyrite, with a few scattered grains of chalcopyrite in veinlets; groundmass partially silicified, argillized and chloritized; with considerable calcite.

888.5 - 898.8 Diorite, brecciated; silicified, argillized and chloritized; up to 60% actinolite between 897.0 and 898.8, along with a small amount of garnet and magnetite; pyrite up to 2 - 8% between 893.2 and 897.0; chalcopyrite scattered throughout, but with up to 1% between 893.2 and 897.0.

898.8 - -903.7 Magnetite ore - low grade; Numerous quartz veinlets up to ½ inch wide, with small amount calcite, and quartz lined vugs; scattered pyrite and a few sporadic grains of chalcopyrite; large amount actinolite, with lesser brown chlorite, with 1 to 2% magnetite.

903.7 - 913.4 Magnetite ore - high grade; with small amounts of garnet and actinolite; pyrite interstitial and disseminated; quartz veinlets with quartz-lined vugs cutting magnetite, calcite crystals in some vugs; considerable actinolite at 909.3 to 909.9; actinolite appears to have been chloritized along shear zones, and in turn replaced by magmetite; feldspar in groundmass argillized; sporadic chalcopyrite.

913.4 - 919.6 Gouge and brecciated diorite - with chloritized gouge; several fractures are completely chloritized up to several inched; very little magnetite.

919.6 - 921.7 Magnetite ore - high grade; up to 90% magnetite, with scattered pyrite.

921.7 - 949.2 Diorite - brecciated; goundmass made up of 5-10% k-feldspar, 3% quartz, 50-60% plagioclase (andesine), 15% actinolite, with 5% albitization, and small amount of sericite and epidote; pheocrysts of plagioclse in two sizes; considerably more actinolite between 924.8 and 925.2; varying amounts of argillization and chlorization; pyrite scattered sporadically throughout groundmass and gouge.

949.2 - 962.5 Diorite, greenish in color, containing up to 2% biotite, and with pyrite in some sections up to 2%, part of the pyrite oxidized; fracture zone completely chloritized at 958.3 to 958.9; shows varying degrees of chloritization and argillization; a few scattered grains of chalcopyrite.

962.5 - 965.3	Diorite - same as above; but with pyrite up to 2%, and small amount of chalcopyrite.
965.3 - 1020.0	Gouge and brecciated diorite, same composition as above; varying amounts of chloritization and argillization, especially along fracture planes, and in some places almost completely argillized; some fragments in fault breccia rounded; pyrite in varying amounts, but up to 5% between 972.0 and 981.4; considerable calcite between 982 and 1020; some sericite(?) between 973 and 990.
1020.0 - 1052.9	Gouge and brecciated diorite - same composition as above; considerable calcite both flooding the griundmass and as veinlets; veinlets in breccia with vugs containing quartz crystals up to 1/16 inch and pyrite, part of pyrite being later; breccia and gouge highly chloritized and argillized.
1052.9 - 1083.9	Same as above, but with more pyrite and scatteded chalcopyrite; pyrite abundant at 1058.0 and at 1060.9 blebs of pyrite and copper stains; numerous quartz veinlets at 1074 - 1083.
1083.9 - 1102.1	Diorite, slightly brecciated to 1087.6, and then brecciated and crushed to 1102.1; composed of 60% plagioclase (andesine An_{33}), 8% k-feldspar, probably orthoclase, 3% quartz, 15% actinolite, 3% biotite, 5% albite, and small amounts of sphene and chlorite; groundmass contains two sizes of plagioclase phenocrysts, porphyritic texture; small amount of epidote; pyrite scattered throughout groundmass; occasional chalcopyrite ; groundmass slightly argillized and chloritized.
1102.1 - 1159.0	Diorite - same composition as above; this whole section almost completely breccaited and crushed, the crushed areas being completely argillized and chloritized, with only small amounts of fresh diorite; haevy shearing at 1149 - 1159; considerably carbonate in gouge; pyrite scattered throughout section, and inplaces appears to be secondary after biotite and/or actinolite; sericite(?) at 1111 - 1122.
1159.0 - 1228.0	Diorite - same composition as above; this whole section almost complately brecciated and crushed; the crushed areas being almost completely chloritized and argillized; calcite in varying amounts, but abundant at 1191 - 1210 and at 1220 - 1228; at 1215.8 a few quartz-calcite veinlets and vugswith calcite and quartz crystals; veinlets of pyrite at 1220 1228; grains of pyrite scattered throughout section in varying amounts; sporadic galena, chalcopyrite, and magnetite at 1215.
Bottom	

Note: Rock description at 1087 based on thin-section, balance of note based on binocular examination, along with simple mineralogic tests.

6000 0082 (0760) 55

Walker Martel Mining Company

Rotary to 864' - Vertical
DDH 864 - 1046'

Bottom: 1,046 feet

no min.

H-1A

0 - 5 No sample

5 - 10 Alluvium

10 - 190 Tuff, latitic to dacitic in composition, probably quartz-latite; light colored; similar to quartz-latite in H - 1; up to 5% quartz, varying amounts of plagioclase and orthoclase, 1 - 5% biotite; 1 - 3% hornblende, 10 - 20% glass, trace to 3% magnetite, considerable glass in groundmass, occasional euhedral, doubly terminated quartz crystal, some preferred orientation at 180 - 190 feet; more gray in color nearer surface; small amounts red oxides at 125 - 130 feet.

190 - 345 Dacitic in composition, tuffaceous, gray to dark gray in color; considerable biotite; albite twinning on plagioclase phenocrysts; 10 - 15% glass; a few quartz grains; magnetite disseminated as grains and euhedral crystals; small amount epidote at 260 - 270 feet; 2 - 3% magnetite at 280 - 290 feet.

345 - 515 Approximately same as above, but reddish in color, small amount of green and blue copper carbonate at 490 - 515 feet.

515 - 630 Fine-grained intrusive, probably quartz-monzonite to quartz-diorite in composition, siliceous; ¼" phenocrysts of plagioclase showing albite twinning; 5% hornblende and actinolite, approximately ½% biotite, trace magnetite, occasional garnet; small amount epidote and zoisite; trace copper carbonate at 515 - 525 feet; 10% amphiboles at 565 -570, and 20% at 575 - 595 feet; small amount disseminated pyrite at 540 - 545 feet; a few scattered grains of magnetite at 620 -630 feet; slightly chloritized at 610; 10 - 20% silicified at 515 - 630 feet.

630 - 800 Same composition, except small amounts of limonite as staining and replacing pyrite at 550-665, 665 - 690; small amounts magnetite as grains and minute pods at 705 - 710 and 740 - 800 feet; 5 - 10% chloritization, 10 - 30% silicification, and 5 - 10% argillization.

volcanics

800 - 864 Granitic, probably quartz-monzonite, medium-grained; 5% quartz, 45% plagioclase, 35% prthoclase, 10% hornblende and actinolite, 3 - 5% biotite, occasional grains of magnetite; a few grains of garne and epidote at 810 - 815; 10% quartz at 815-820; 10 - 15% silicified, some argillization and chloritization; ½" pyrite at 840-850'.

864 - 1046 Granitic, diorite in composition, fine grained, greenish tint; small amount secondary(?) albite; trace to 1% pyrite; pyrite occuring as disseminated and as minute pods and veinlets; brecciated from 864 to 1046, with small amount to considerable gouge along faults; 10 - 25% chloritization, up to 5" carbonate, 3 to 35% argillization, 5 - 20% silicification, (See graphic log).

Bottom 8/26/65 1¼ black pipe in hole for temperature measurements by Robert Roy, Hravard University; temperatures made 9/5/65 by Roy and Lawrence; pipe to be left in hole for 12 months.

6000 0082 (0760)

DRILL LOG

COMPANY NAME Martel Mining Company

MINE Hottentot

COORDINATES OF COLLAR:

SHEET 1 OF 1

SCALE 1" = 100'

LOCATION 12 miles east of Schurz, Nevada

N

BY EFL

AU.

HOLE NO. H 1A

E

DATE 8/65

BEARING

LENGTH OF HOLE 1046 feet

CASING 1¼" black pipe for temp. measurements, (Harvard)

DIP Vertical

HOLE SIZE Rotary-4½" to 864'; NX 864-1046'

Boyles Bros. Drilling Co.

ACCOMPANIED BY NARRATIVE LOG YES X NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION					
	Chlor		Arg		Sili			LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu		
0											Alluvium								
											Latitic tuff								
100																			
200											Dacitic tuff								
300																			
400																			
500											Qtz-diorite(?)								

56

600

700

800

Quartz-
monzonite(?)

NX 864-1046 feet
See core log.

6000 0082 (0760)

...LL LOG

COMPANY NAME WALKER-MARTEL MINING COMPANY

MINE HOTTENTOT

COORDINATES OF COLLAR:

SHEET 1 OF 2 SCALE 1"=10'

LOCATION 12 Mi. East of Schurz, Nevada

N

BY EFL

HOLE NO. H -1A

E

DATE 8/17/65 - 8/26/65

BEARING

LENGTH OF HOLE 1046'

CASING Cased to 867 ~~Casing pulled 8/30/65~~

DIP Vertical

HOLE SIZE Rotary 4½" 0' - 864' NX 864' - 1046'

1¼" Black Pipe put in hole by Harvard Univ.

Boyles Bros. by Ray Nelson & Fredericks

ACCOMPANIED BY NARRATIVE LOG YES X NO

ALTERATION							LOG AND ROCK TYPE						MINERALIZATION					
Chlor	Carb	Arg	Ser	Sili	Alb	Ortho	LOG	DIP	LOG	ROCK DESCRIPTION	½" CORE	REMARKS	Qtz	Py	Fe	Cu		

100

200

300

400

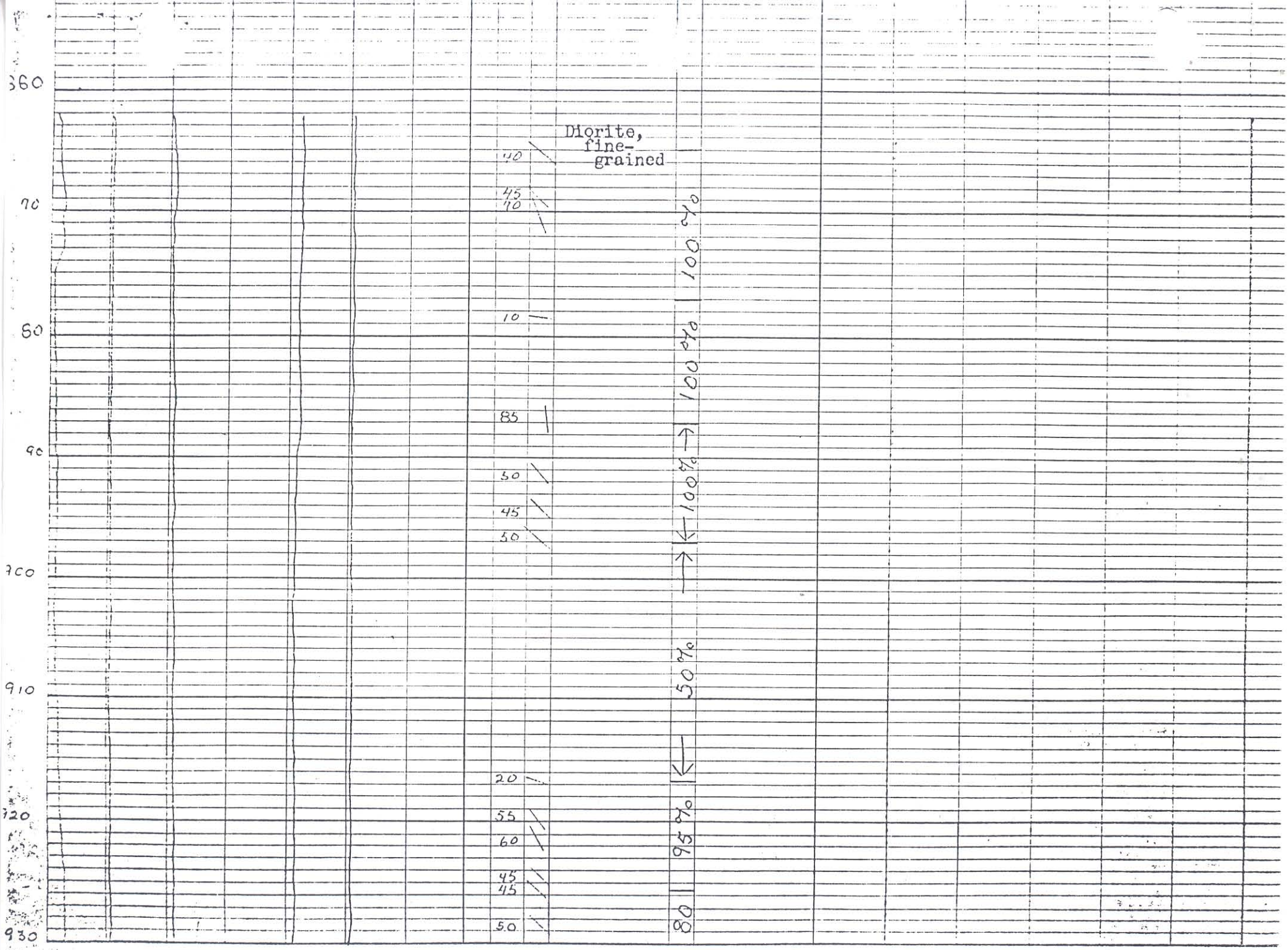
500

600

700

800

58


360
70
80
90
700
910
720
930
Diorite, fine-grained
40
45
70
10
85
50
45
50
20
55
60
45
45
50
100%
100%
100%
50%
95%
80

LL LOG

COMPANY NAME WALKER-MARTEL MINING COMPANY

MINE HOTTENTOT

COORDINATES OF COLLAR:

SHEET 2 OF 2 SCALE 1" = 10'

LOCATION

N

BY

AU. #

HOLE NO. H - IA

E

DATE

BEARING

LENGTH OF HOLE

CASING

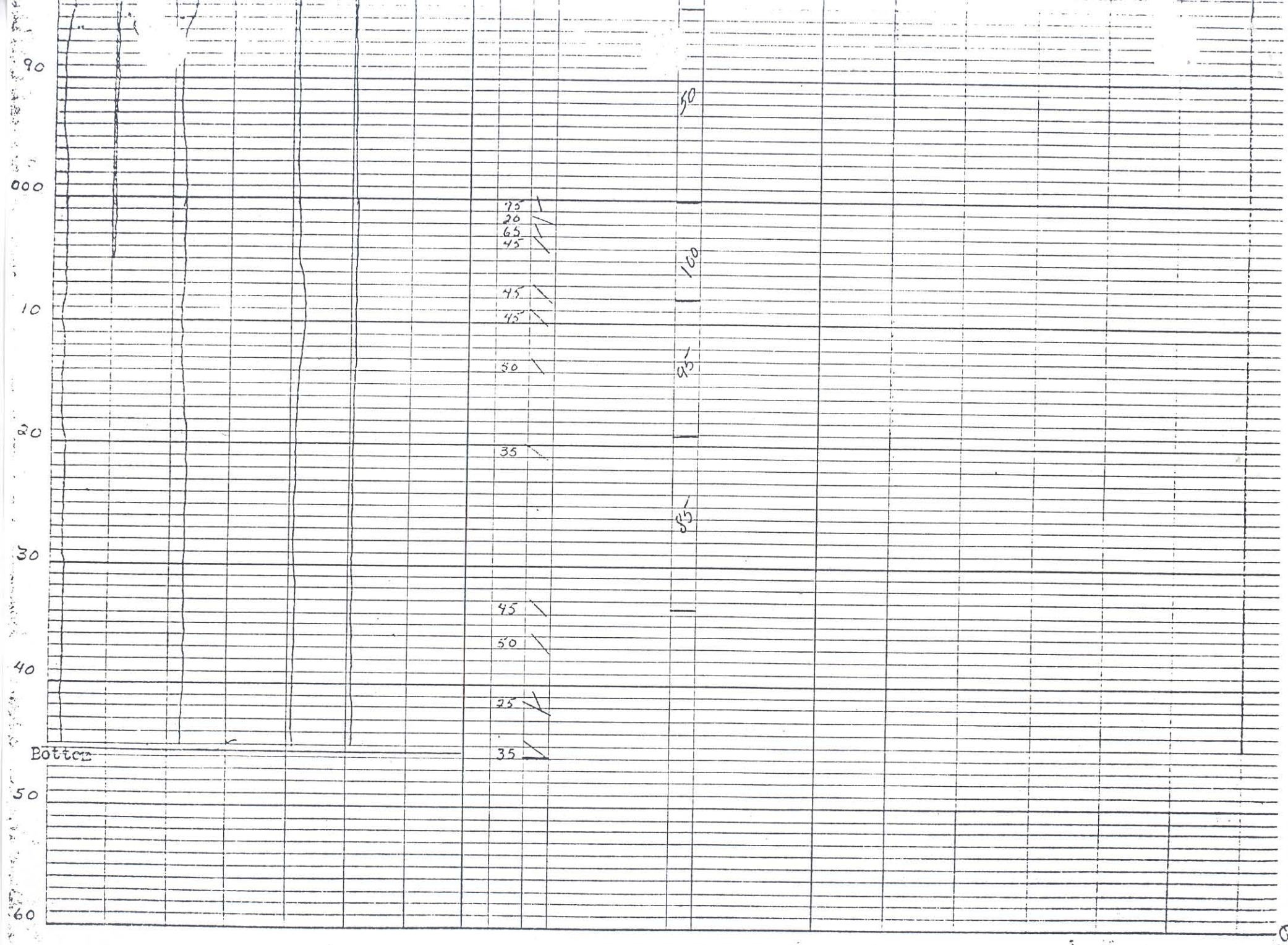
DIP

HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES ☐ NO

	ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
	Chlor	Carb	Arg	Ser	Sili	Alb	Ortho	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	Qtz	Py	Fe	Cu			MES
30																				
									35			85								
40																				
									70			95								
50									45											
60												95								
70												95								
									55											
80												95								
									75											

60


90
000
10
20
30
40
Bottom
50
60
75
20
65
45
45
45
50
35
45
50
35
35
50
100
95
55

Walker River Paiute Reservation

H-1B 62
6000 0082 (0760)

Walker Martel Mining Company

Rotary: 0.0 - 1116.7'

Bottom: 1116.7 feet

Vertical

0.0 - 155.0	Intermediate flows, probably adesite; gray in color; small amount glass, 10-15% biotite, occasional phenocrysts plagioclase; biotite anhedral to euhedral, slightly to moderately altered; somewhat argillized at 150'.
155.0 - 230.0	Similar to above, except reddish in color; 5-10% biotite; minute plagioclase phenocrysts; small amount glass; argillized at 225-260.
230.0 - 320.0	Andesitic(?); gray in color; 5-10% biotite, occasional hornblende; subhedral to euhedral plagioclase crtstals; 5-15% glass; occasional pyrite, usually oxidized to hematite.
320.0 - 725.0	Quartz-latitic(?) tuff; at 320-330 tan to reddish in color, 330-620 fine-grained and whitish in color, and at 620-725 gray in color; water above contact; 3-5% biotite, 15-25% glass shards, occasional plagioclase phenocrysts; occasional grains magnetite at 425', and 650-660'; slightly to moderately argillized.
725.0 - 950.0	Quartz-monzonite(?); samples from 725 - 785 highly contaminated, and slightly to moderately contaminated at 785-950'; at 785-950' silicified, and slightly albitized(?); several laths of albite; numerous plagioclase phenocrysts.
950.0 - 951.0	Quartz monzonite - a one-foot core run at 950-951'; 20-25% plagioclase, 15-25% orthoclase, 5-10% quartz, 3-5% epidote, 3-5% biotite, 1-2% hornblende; occasional oxidized pyrite crystal.
951.0 - 1115.0	Same as above - rotary chip samples; trace copper at 970' and 990'; up to 10% quartz, averaging 3-5%, trace to 1% hornblende, 3-5% epidote, trace to ½% magnetite; ½% pyrite at 1035' oxidized to limonite.
1115.0 - 1116.7	Quartz monzonite; fresh, 20% plagioclase, 15% orthoclase, 5% quartz, 3% green hornblende, ½-1% epidote; 20-40% silicified; plagioclase shows tiny wisps clay minerals.

6000 0082 (0760) 63

Hottentot E-2

H-2

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Rotary: 0-365
DDH 365-808'

Bottom: 801.5 feet

Vertical

0.0 - 200.0	Alluvium; fragments of dacite, rhyolite, quartz-latite, andcite, quartz-monzonite, calcite, quartz, olivine, 3-5% magnetite, slightly altered to fresh biotite, opaline material, and chalcedony.
200.0 - 371.0	Decomposed quartz-latite, with a few scattered grains of pyrite and fair amount magnetite, mostly oxidized; probably in place.
371.0 - 396.0	Quartz-latite tuff, buff color, medium grained; biotite fresh, core slightly magnetic.
396.0 - 447.0	Quartz-latite tuff, buff color, fine grained; ½-5% magnetite; biotite fresh; core slightly magnetic.
447.0 - 457.0	Same as above, but medium grained;
457.0 - 547.6	Same as above , fine grained.
547.6 - 583.0	Quartz-latite tuff, with numerous fragments; slightly altered; 5% quartz, 35% orthoclase, 35% plagioclase, 2-3% biotite, 20% glass; weldedein part; slightly silicified at 568-569'; biotite fresh, feldspar alteringt loss than ½% to 3% magnetite.
583.0 - 619.0	Same as above; with 5% magnetite at 589' and 5-10% magnetite at 609-619'.
619.0 - 698.0	Same as above; fine grained; buff color; slightly to moderately magnetic; scattered fragments of andesite and other rocks; highly magnetic at 683-690'.
698.0 - 728.0	Same as above; slightly magnetic.
728.0 - 785.0	Same as above; fine to medium grained; 10-20% chloritized; scattered fragments.
785.0 - 801.5	Same as above, numerous fragments; slightly to moderately magnetic; slightly argillized.

Bottom: 801.5

6000 0082 (070) DRILL

COMPANY NAME Martel Mining Co y

NE Hottentot

COORDINATES OF COLLAR:

SHEET 1 OF 1 SCALE 1" = 100'

OCATION 12 miles east of Schurz, Nevada

N

BY EFL

AU. #

OLE NO. H 2

E

DATE 1964

EARING

LENGTH OF HOLE 801.5 feet

CASING No

P Vertical

HOLE SIZE Rotary 0-365'; NX 365-801.5'

Boyles Bros. Drilling Co.

ACCOMPANIED BY NARRATIVE LOG YES [X] NO [ ]

ALTERATION							LOG AND ROCK TYPE						MINERALIZATION						
							LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS							
										Alluvium									
										Decomposed Qtz-latite tuff									
										Qtz-latite tuff									

64

600

700

800

Bottom: 801.5 feet

6000 0082 (0760)

HOTTENTOT COMPLEX PROJECT

R.L. REDMOND COPY

MMS # 22

(entire book)

Summary of
Dr. 11 Hole Nat. Green

6000 0082 (0760)

RP film —
ALIGN — 88
19
25

INDEX TO file

HOTTENTOT

Lawrence E = & Wilson WL - Exploration of the Hottentot Prospect Walker River Indian Reservation NV - (NEV Bur mines Rept # 13)

General - H-100 (52.8% Fe .138 Cu at Bottom 828' need location

Carithers 1975 memo To Bill & Kay Wilson ide memins briefly discuss H-100

Wilson WL 1973 The Hottentot Deposit Walker River Indian Reservation NV. Hottentot may be RT lateral offset of Calico. Hottentot divided into 3 deposits (South / IMT) (southeast / IMT) & north ?

Ross H 1974 IP Tests of Calico & Hottentot Deposits

Wilson 1978 Letter To Mr Cliff Mark - discusses H-100 and BA #4 (Badger), and plans to expand lease area (Maps inc), Log BA-4

Carithers Ward 1975 - letter to Bill & Kay Wilson discusses hottentot holes * H7-H14 H3-J, K, L, M & H6-E and Badger area.

* we do not have these logs.

6000 0082 (0760)

MISSING INFO HOTTENTOT.

all drill hole logs ex H-100
Map NO 1

> 17 > 30 > 50 > 57 < 75

> > Hottentot Drilling Summary 6000 0082 (0760)

	Hole No	Depth From	Depth To	Type of Drlg	Log Narrative	X-sect (T.D. in Ft)	Surface Map	Core Exam Binoc	Core Exam Thin Sec
✓	H-1	0	223	Rotary?	Yes	Yes	Yes	✓	1 @ 1087
		223	1228	Core					
✓	H-1A	0	864	Rotary	Yes	Yes	Yes	?	
		864	1045	Core					
✓	H-2	0	365	Rotary	Yes	No	Yes	?	
		365	801.5	Core					
	H-1B	0	1116.7	Rotary	Yes	No	Yes	?	
✓	H-100	0	831	Rotary?	Yes	Yes	Yes	?	
✓	H-101	0	452	Rotary?	No	Yes	Yes	unkn.	
✓	H-3	0	50	Rotary?	Yes	Yes	Yes	?	
		50	227	Core					
✓	H-3A	0	13.16	Rotary	Yes	Yes	Yes	?	
		131.6	270	Core					
✓	H-3B	0	14	Rotary	Yes	Yes	Yes	?	
		14	354.6						
✓	H-3C	0	212.3	Core	Yes	Yes	Yes	?	
✓	H-3D	0	150	Core	Yes	Yes	Yes	?	
✓	H-3E	0	148.5	Core	Yes	Yes	Yes	?	
✓	H-3F	0	159	Core	Yes	Yes	Yes	?	
✓	H-3G	0	175	Core	Yes	Yes	Yes	?	
	H-3H	0	221	Core	Yes	No	Yes	?	
✓	H-3I	0	180	Unk	No	Yes	Yes		
	H-3J	Unk		Unk	No	No	Yes		
	H-3L	0	350	Unk	No	Yes	Yes		
	H-3M	0	290	Unk	No	Yes	Yes		

9 14

Hottentot Drilling Summary

	Hole No.	Depth From	To	Type of Drlg	Log Narrative	X-sect (T.D. in ft)	Surface Map	Core Exa Binoc / Thin Sec
✓	H-6	0	150	Rotary	Yes	Yes	Yes	?
		150	155	Core				
		155	178.5	Rotary				
		178.5	429.5	Core				
✓	H-6A	0	286	Rotary	Yes	Yes	Yes	?
		286	509.4	Core				
	H-6B	0	180	Rotary	Yes	No	Yes	?
		180	300	Core				
✓	H-6C	0	190	Rotary	Yes	Yes	Yes	?
✓	H-6D	0	168	Rotary	Yes	Yes	Yes	?
		168	242	Core				
✓	H-6E	0	120	Rotary	Yes	Yes	Yes	?
	H-6F	0	278	Rotary	Yes	Yes	Yes	?
		278	353	Core				
	H-7	0	300	Unk	No	Yes	Yes	
	H-8	0	300		No	Yes	Yes	
	H-9	0	500		No	Yes	Yes	
	H-10	0	390		No	Yes	Yes	
	H-11	0	500		No	Yes	Yes	
	H-12	0	345		No	Yes	Yes	
	H-13		Unk	Unk	No	No	Yes	
	H-14	0	300	Unk	No	Yes	Yes	

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WHITE, WM
5 Feb 85

USBM Compilation of Walker-Martel & Idaho Mining Drill Hole Data.
>> Hottentot Drilling Summary

	Hole No	Depth From To	Type of Drlg	Log Narrative	X-sect (T.D. in ft)	Surface Map
✓	H-1	0 - 223 223 - 1228	Rotary ? Core	Yes	Yes	Yes
✓	H-1A	0 - 864 864 - 1045	Rotary Core	Yes	Yes	Yes
✓	H-2	0 - 365 365 - 801.5	Rotary Core	Yes	No	Yes
	H-1B	0 - 1116.7	Rotary	Yes	No	Yes
✓	H-100	0 - 831	Rotary ?	Yes	Yes	Yes
✓	H-101	0 - 452	Rotary ?	No	Yes	Yes
✓	H-3	0 - 50 50 - 227	Rotary ? Core	Yes	Yes	Yes
✓	H-3A	0 - 13.16 131.6 - 270	Rotary Core	Yes	Yes	Yes
✓	H-3B	0 - 14 14 - 354.6	Rotary	Yes	Yes	Yes
✓	H-3C	0 - 212.3	Core	Yes	Yes	Yes
✓	H-3D	0 - 150	Core	Yes	Yes	Yes
✓	H-3E	0 - 148.5	Core	Yes	Yes	Yes
✓	H-3F	0 - 159	Core	Yes	Yes	Yes
✓	H-3G	0 - 175	Core	Yes	Yes	Yes
	H-3H	0 - 221	Core	Yes	No	Yes
	H-3I	0 - 180	Unk	No	Yes	Yes
	H-3J	Unk	Unk	No	No	Yes
	H-3L	0 - 350	Unk	No	Yes	Yes
	H-3M	0 - 290	Unk	No	Yes	Yes

Hottentot Drilling Summary

Hole No.	Depth From	To	Type of Drlg	Log Narrative	X-sect (T.D. in ft)	Surface Map
✓ H-6	0	150	Rotary	yes	yes	yes
	150	155	Core			
	155	178.5	Rotary			
	178.5	429.5	Core			
✓ H-6A	0	286	Rotary	yes	yes	yes
	286	509.4	Core			
H-6B	0	180	Rotary	yes	No	yes
	180	300	Core			
✓ H-6C	0	190	Rotary	yes	yes	yes
✓ H-6D	0	168	Rotary	yes	yes	yes
	168	242	Core			
✓ H-6E	0	120	Rotary	yes	yes	yes
H-6F	0	278	Rotary	yes	yes	yes
	278	353	Core			
H-7	0	300	unk	No	yes	yes
H-8	0	300		No	yes	yes
H-9	0	500		No	yes	yes
H-10	0	390		No	yes	yes
H-11	0	500		No	yes	yes
H-12	0	345		No	yes	yes
H-13		unk	unk	No	No	yes
H-14	0	300	unk	No	yes	yes

6000 0082 (0760)

Table ___. Hottentot drilling summary

Hole No.	Depth From	Depth To	Type of Drilling	Core Analysed for Au, Ag, Cu, Fe, Mo, & S. From	To
H-1	0	223	Rotary?		
	223	1228 T.D.	Core		
H-1A	0	864	Rotary		
	864	1045 T.D.	Core		
H-1B 1B	0	1116.7T.D.	Rotary		
H-100	0	831 T.D.	Rotary?		
H-101	0	452 T.D.	Rotary?		
H-2	0	365	Rotary		
	365	801.5 T.D.	Core		
H-3	0	50	Rotary?		
	50	227 T.D.	Core		
H-3A	0	131.6	Rotary		
	131.6	270 T.D.	Core		

H-3B	O	14	Rotary
	14	354.6 T.D.	Core
H-3C	O	212.3 T.D.	Core
H-3D	O	150 T.D.	Core
H-3E	O	148.5 T.D.	Core
H-3F	O	159 T.D.	Core
H-3G	O	175 T.D.	Core
H-3H	O	221 T.D.	Core
H-3I	O	180 T.D.	UNK.
H-3J	O	UNK.	UNK.
H-3L	O	350 T.D.	UNK.
H-3M	O	290 T.D.	UNK.

Table ___. Hottentot drilling summary (Cont.)

Hole No.	Depth From	Depth To	Type of Drilling	Core Analysed for Au, Ag, Cu, Fe, Mo, & S. From	To
H-6	0	150	Rotary		
	150	155	Core		
	155	178.5	Rotary		
	178.5	429.5 T.D.	Core		
H-6A	0	286	Rotary		
	286	509.4 T.D.	Core		
H-6B	0	180	Rotary		
	180	300 T.D.	Core		
H-6C	0	190 T.D.	Rotary		
H-6D	0	168	Rotary		
	168	242 T.D.	Core		
H-6E	0	120 T.D.	Rotary		
H-6F	0	278	Rotary		
	278	353 T.D.	Core		

H-7	O	300	T.D.	UNK.
H-8	O	300	T.D.	UNK.
H-9	O	500	T.D.	UNK.
H-10	O	390	T.D.	UNK.
H-11	O	500	T.D.	UNK.
H-12	O	345	T.D.	UNK.
H-13 13 1	O	UNK.	T.D.	UNK.
H-14	O	300	T.D.	UNK.

Drilling

Table___, Summary of Hottentot drilling program-Gold occurrences with Copper

Hole No.	Footage From	Footage To	Interval (feet)	Host Rock	Assay Data Au (oz/T)	Ag (oz/T)	Cu (%)	Fe (%)
H-1	712	744	32		NA?	NA?	0.06	52.8
	878.2	888.5	10.3		NA?	NA?	0.14	NA?
	890	903.7	13.7		NA?	NA?	0.22	NA?
	903.7	913.4	9.7		NA?	NA?	0.08	NA?
	919.6	921.7	2.1		NA?	NA?	0.07	55.4
	1111.8	1120.9	9.1		Tr	0.15	NA?	NA?
H-1A	0	1046	N/A		Assay data unavailable			
H-1B	0	1116.7	N/A		do			
H-100	710	805	95		NA?	NA?	0.06	31.6
	805	828	23		NA?	NA?	0.02	32.2
	828	831	3		NA?	NA?	0.14	52.8
H-101	0	452	N/A		Assay data unavailable			
H-2	0	801.5	N/A		Assay data unavailable			
H-3	41	126	85		NA?	NA?	0.10	58.0
	171.5	200	28.5		NA?	NA?	NA?	45.6
H-3A (AKA-H-4)	130	147.1	17.1		NA?	NA?	NA?	54.3

Drilling

Table___, Summary of Hottentot drilling program-Gold occurrences with Copper

Hole No.	Footage From	Footage To	Interval (feet)	Host Rock	Assay Data Au (oz/T)	Ag (oz/T)	Cu (%)	Fe (%)
H-3B	125	331.2	206.2		NA?	NA?	NA?	36.6
(AKA-	331.2	354.6	23.4		NA?	NA?	N/A	18.4
H-5)	246	354.6	108.6		NA?	NA?	0.10	N/A
H-3C	0	49.1	49.1		NA?	NA?	NA?	17.2
	49.1	67.6	18.5		NA?	NA?	0.08	50.4
	67.6	91	23.4		NA?	NA?	0.09	47.6
	91	110	19.0		NA?	NA?	0.08	61.6
	110	127	17		NA?	NA?	0.07	61.2
	129.1	144	14.9		NA?	NA?	0.10	24.8
	144	157.5	13.5		NA?	NA?	0.05	18.2
H-3D	0	94.5	94.5		NA?	NA?	NA?	33.5
H-3E	0	148.5	N/A		Assay data unavailable			
H-3F	19	49	30		NA?	NA?	NA?	50.2
	72	81.6	9.6		NA?	NA?	NA?	49.2
	81.6	103.3	21.7		NA?	NA?	NA?	54.0
	103.3	108.1	4.8		NA?	NA?	NA?	29.2
	108.1	125	16.9		NA?	NA?	0.10	35.6
	125	135	10		NA?	NA?	0.11	40.8

Drilling

Table___, Summary of Hottentot drilling program-Gold occurrences with Copper

Hole No.	Footage From	Footage To	Interval (feet)	Host Rock	Assay Data Au (oz/T)	Ag (oz/T)	Cu (%)	Fe (%)
H-3G	19.5	48.5	29		NA?	NA?	0.12	46.0
	48.5	65.2	16.7		NA?	NA?	0.05	61.2
	65.2	66.7	1.5		NA?	NA?	NA?	44.8
	66.7	76.7	10		NA?	NA?	0.31	58.4
	76.7	82.2	5.5		NA?	NA?	0.11	46.8
	82.2	96	13.8		NA?	NA?	0.11	48.0
	133	150.5	17.5		NA?	NA?	0.11	50.4
H-3H	163.5	178.5	15		NA?	NA?	0.05	56.0
H-3I	0	180	N/A		Assay data unavailable			
H-3J	0	UNK.	N/A		do			
H-3K	0	UNK.	N/A		do			
H-3L	0	350	N/A		do			
H-3M	120	160	40		NA?	NA?	NA?	39.8
	160	200	40		NA?	NA?	NA?	±10.0
	200	240	40		NA?	NA?	NA?	41.7

Drilling

Table___, Summary of Hottentot drilling program-Gold occurrences with Copper

Hole No.	Footage From	Footage To	Interval (feet)	Host Rock	Assay Data Au (oz/T)	Ag (oz/T)	Cu (%)	Fe (%)
H-6	178.5	197.5	19.0		NA?	NA?	NA?	60.9
	197.5	203	5.5		NA?	NA?	0.19	59.3
	203	261	58.0		NA?	NA?	NA?	49.3
	269.5	280.5	11.0		NA?	NA?	NA?	55.8
	280.5	290.5	10.0		NA?	NA?	0.13	45.2
	290.5	300.5	10.0		NA?	NA?	0.15	58.3
	300.5	310.5	10.0		NA?	NA?	0.21	61.9
	310.5	318.5	8.0		NA?	NA?	0.13	57.9
	318.5	324.2	5.7		NA?	NA?	0.17	57.4
	324.2	337.1	12.9		NA?	NA?	0.15	57.5
	337.1	354.0	17.9		NA?	NA?	0.18	48.1
	362.2	384.0	21.8		NA?	NA?	NA?	48.4
H-6A	293.5	313.5	20.0		NA?	NA?	0.10	59.6
	313.5	333.5	20.0		NA?	NA?	0.14	57.2
	333.5	352.5	19.0		NA?	NA?	0.09	56.0
	352.5	355.0	2.5		NA?	NA?	0.08	59.6
	361.6	387.0	25.4		NA?	NA?	0.18	57.2
	396.7	423.2	26.5		NA?	NA?	0.13	52.0
H-6B	0	300	N/A		Assay data unavailable			
H-6C	200	270	70		NA?	NA?	0.1	46.4

Drilling

Table___, Summary of Hottentot drilling program-Gold occurrences with Copper

Hole No.	Footage From	Footage To	Interval (feet)	Host Rock	Assay Data Au (oz/T)	Ag (oz/T)	Cu (%)	Fe (%)
H-6D	168	178	10		ND	1 ppm	NA?	50.0
	178	188	10		ND	1 ppm	NA?	40.5
	188	198	10		ND	1 ppm	NA?	17.5
H-6E	190	400	210		NA?	NA?	0.1	42.9
H-6F	278	289	11		ND	1 ppm	NA?	47.0
H-7	0	300	N/A		Assay data unavailable			
H-8	40	50	10		NA?	NA?	NA?	21.2
	50	140	90		NA?	NA?	NA?	51.9
	140	150	10		NA?	NA?	NA?	18.2
H-9	230	300	70		NA?	NA?	NA?	41.6
H-10	210	260	50		NA?	NA?	NA?	47.0
	260	320	60		NA?	NA?	NA?	+10
	320	390	70		NA?	NA?	NA?	45.6
H-11	310	330	20		NA?	NA?	NA?	14.7
	330	410	30		NA?	NA?	NA?	14.5
	440	460	20		NA?	NA?	NA?	20.5

Drilling

Table___, Summary of Hottentot drilling program-Gold occurrences with Copper

Hole No.	Footage From	Footage To	Interval (feet)	Host Rock	Assay Data Au (oz/T)	Ag (oz/T)	Cu (%)	Fe (%)
H-12	260	280	20		NA?	NA?	NA?	19.0
H-13	0	UNK.	N/A		Assay data unavailable			
H-14	0	300	N/A		do			

HOTTENTOT DRILL HOLES

✓ 1.	H-1	T.D.-1228 ft	32 ft of 52.8% Fe
✓ 2.	H-1A	T.D. - 1046 ft 1274	No assay data see Walker Martel 26AugGS log narrative
3.	H-1B	1115	
North ✓ 4.	H-100	T.D. - 831 ft	95 ft of 31.6% Fe, 0.06% Cu; 23 ft of 33.2% Fe, 0.02% Cu
✓ 5.	H-101	T.D. - 452 ft	No assay data
6.	H-2	T.D. - 801.5 ft	See Walker Martel 1964 log narrative ~ 10 ft of 10% Fe
✓ 7.	H-3	T.D. - 227 ft	85 ft of 58.0% Fe; 28.5 ft of 46.5% Fe
✓ 8.	H-3A	T.D. - 270 ft	17 ft of 54.3% Fe
✓ 9.	H-3B	T.D. - 354.6 ft	206 ft of 36.6% Fe, 0.1% Cu; 23 ft of 18.4% Fe
✓ 10.	H-3C	T.D. - 212.3 ft	49 ft of 17.2% Fe; 78 ft of 34.6% Fe; 30? ft of 21.8% Fe
✓ 11.	H-3D	T.D. - 150 ft	94.5 ft of 33.5% Fe
✓ 12.	H-3E	T.D. - 148.5 ft	No assay data
✓ 13.	H-3F	T.D. - 159 ft	20 ft of 50.2% Fe; 63 ft of 44.4% Fe
✓ 14.	H-3G	T.D. - 318 ft	76.5 ft of 51.3% Fe; 17.5 ft of 50.4% Fe
drill logs 15.	H-3H	T.D. - 221 ft	15 ft of 56.0% Fe, 0.05% Cu.
✓ 16.	H-3I	T.D. - 180 ft 6598.9	No assay data
17.	H-3J		No assay data
18.	H-3K		No assay data
✓ 19.	H-3L	T.D. - 350 ft	No assay data
✓ 20.	H-3M	T.D. - 290 ft	40 ft of 39.8% Fe; 40 ft of ±10% Fe; 40 ft of 41.7% Fe
21.	H-3?		
✓ 22.	H-6	T.D. - 429.5 ft	205.5 ft of 48.0% Fe, 0.1% Cu
23.	H-6A	T.D. - 509 ft	130 ft of 49.2% Fe, 0.12% Cu
? 24.	H-6B	T.D. - 300 ft	No assay data - see 24 May 1968 Walker Martel log narrati
✓ 25.	H-6C	T.D. - 401 ft	70 ft of 46.4 fe, 0.1% Cu; 120 ft of 16.1% Fe, 0.1%
✓ 26.	H-6D	T.D. - 242 ft	20 ft of 45.2% Fe; 10 ft of 7.5% Fe
✓ 27.	H-6E	T.D. - 420 ft	210 ft of 42.9% Fe, 0.1% Cu
✓ 28.	H-6F	T.D. - 353 ft 9893.4	11 ft of 47.0% Fe
✓ 29.	H-7	T.D. - 300 ft	No assay data
30.	H-8	T.D. - 300 ft	10 ft of 21.2% Fe; 90 ft of 51.9% Fe; 10 ft of 18.2% Fe
✓ 31.	H-9	T.D. - 500 ft	70 ft of 41.6% Fe
✓ 32.	H-10	T.D. - 390 ft	50 ft of 47.0% Fe; 60 ft of ±10% Fe; 70 ft of 45.6% Fe
✓ 33.	H-11	T.D. - 500 ft	20 ft of 14.7% Fe; 30 ft of 14.5% Fe; 20 ft of 20.5% Fe
✓ 34.	H-12	T.D. - 345 ft 12228.4	20 ft of 19% Fe
✓ 35.	H-13		
36.	H-14	T.D. - 300 ft 12528.4	No assay data

37. H-4 (AKA H-3A)

38. H-5 (AKA H-3B)

Possible H-1B?
Unknown drill log T.D. 1116.7 ft, see Redmond pg 62. between H-1A & H-2

HOTTENTOT

Drilling

South Hottentot Drill Holes: 18 holes

✓ H-3, ~~H-4~~, ~~H-5~~, H-7, H-8, & H-101 (?)

✓ H-3A	H-3I
✓ 3B	H-3J
✓ 3C	H-3K
✓ 3D	H-3L
✓ 3E	H-3M
✓ 3F	H-3?
✓ 3G	
✓ 3H	

South Hottentot No. 3. (Southeast) : 13 holes

✓ H-6	H-9	
✓ H-6A	H-10	31
✓ H-6B	H-11	4
H-6C&D		
H-6E	H-12	5
H-6F	H-13	
	H-14	

North Hottentot : 4 holes

H-1
H-1A
H-1B
H-100

HOTTENTOT

Drilling

1. Since 196—, 38 holes totaling about 12528 ft have been drilled on the property

2. Drilling has identified three iron deposits:
   North Hottentot
   South "
   Southeast "

According to Wilson, 1973, geophysical surveys (aero & ground mag?) deposit has potential of containing 100,000,000 million tons of Fe resources, & possible Cu occurrences.

A. North Hottentot: 3 holes drilled (as of 1973), & no estimate of tonnage or grade. Based on dlg, top of deposit is 700 ft below surface. Mining would be by underground methods (block caving suggested).

B. South Hottentot: Deposit has very small outcrop, but dlg has identified about 1 million tons of iron ore(?); an additional 1-5 million tons possible with additional dlg. As of 1973, boundaries of deposit have not been delineated. Deposit is apparently shallow ("This deposit would be mined by open pit methods, with a very favorable stripping ratio").

C. Southeast Hottentot: Deposit has proven reserves of about 1 million tons of iron ore (approx 50% Fe) with accessory copper that ranges from 0.10 to 0.20% Cu. An additional 2 to 5 million tons is possible with additional dlg. As of 1973, boundaries of deposit have not been delineated. Deposit is buried by 150 to 200 ft of "recent" volcanics, & is "susceptible to open pit mining.

3. Questions regarding North, South, & Southeast Hottentot:

A. North:
   1.) Identify holes drilled ✓
   2.) Idea of tonnage & grade possible from holes?
   3.) Areal extent of deposit?
   4.) Location of deposit?

B. South:
   1.) Identify holes drilled ✓
   2.) Which direction is recommended for additional holes?
   3.) How shallow is deposit
   4.) What is grade of deposit for Fe & Cu?
   5.) Location & areal extent of deposit?

C. Southeast
   1.) Identify holes drilled ✓
   2.) Which direction is recommended for additional holes?
   3.) Location & areal extent of deposit?

6000 0082 (0760)

M E M O R A N D U M

TO: FILES
FROM: WLW
RE: HOTTENTOT PROSPECT
Date: October 25, 1979

Hole H-100 was drilled on the permitted lands. Most of the other exploration in the Hottentot area was conducted on the leased land, the data for which has been previously furnished. This hole has a significant discovery of iron and accessory copper, starting at 710' depth and continuing to the bottom of the hole, 831'. The following information is furnished:

1. A map at scale 1"=500', showing the location of the hole. This map is a small portion of map #6A in the overall folio compiled by Carrithers concerning the Hottentot-Badger area.

2. A memorandum dated July 18, 1975 from Ward Carrithers to Idaho, discussing this drill hole and attached to which is a log and assay data for the hole.

3. A report by W. L. Wilson dated April 5, 1973, concerning the Hottentot deposits.

4. A copy of a letter from Kennecot Exploration, Inc. and a report by them of induced polarization test surveys of the Calico and Hottentot deposits.

6000 0082 (0760)

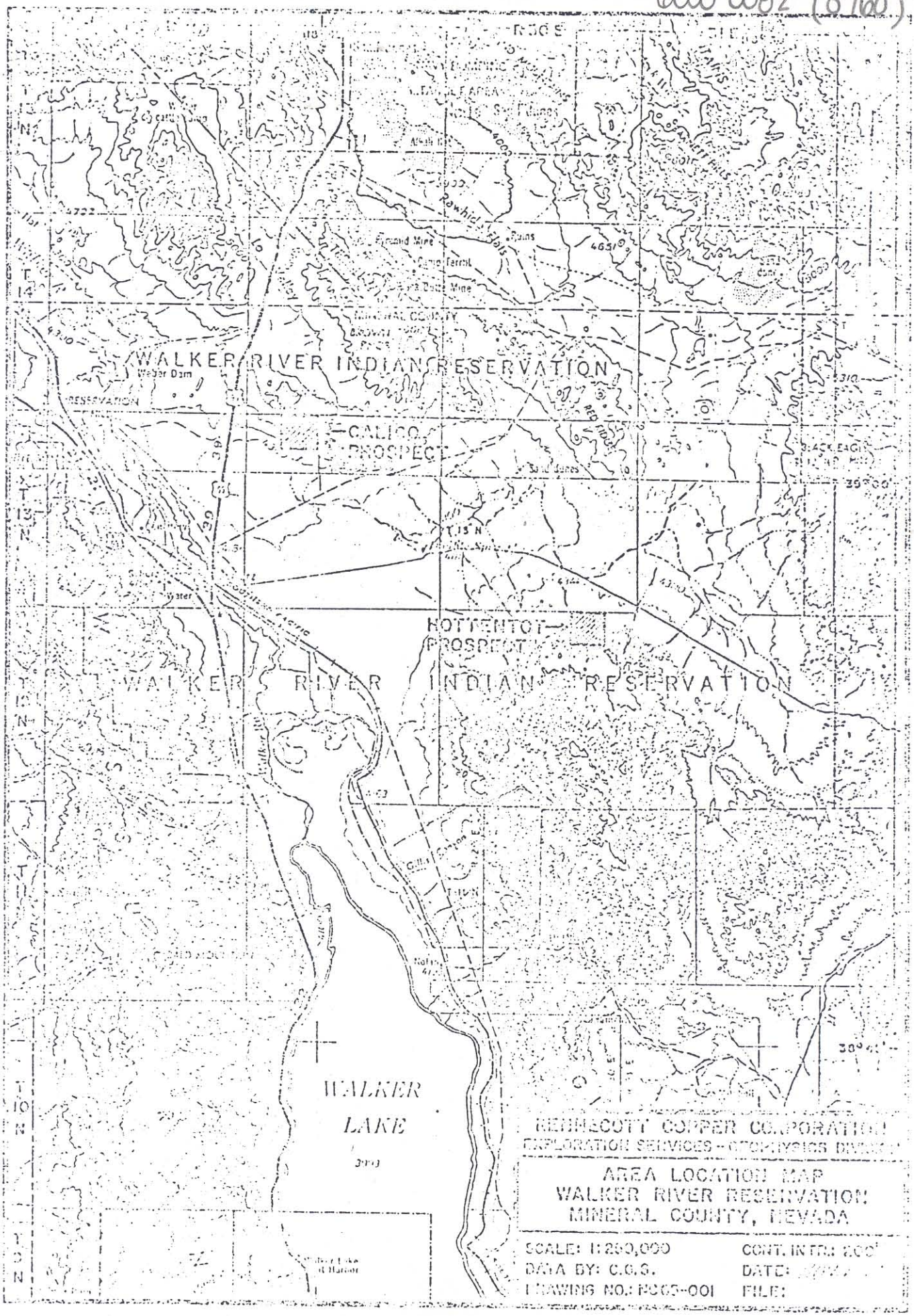

Figure 2

6000.0082 (0760)

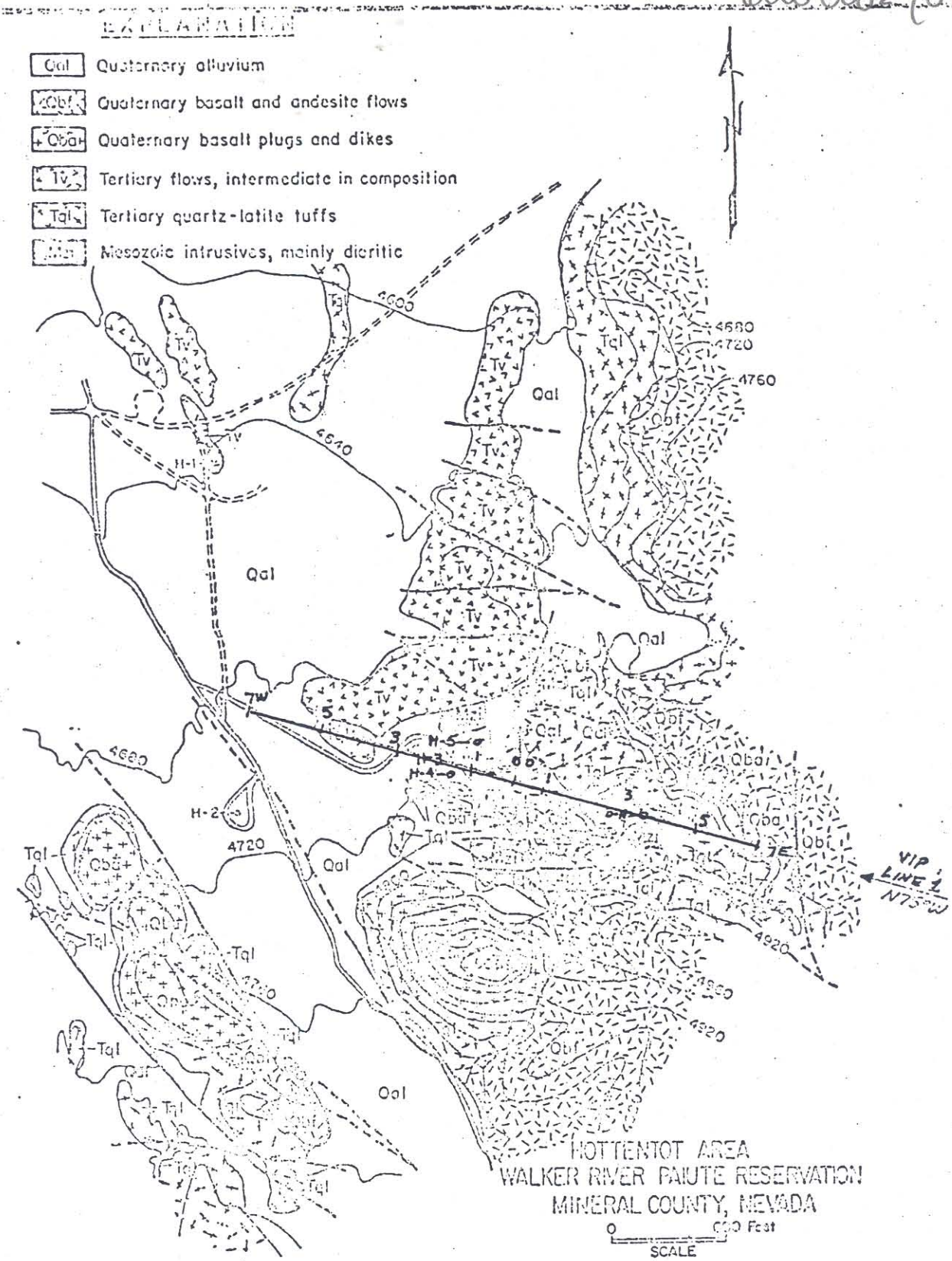

FIGURE 2. Geologic map of a part of the Hottentot area.

KENNECOTT EXPLORATION — EXPLORATION SERVICES DEPARTMENT

GEOPHYSICS DIVISION — U. S. OPERATIONS

VIP LINE 1, HOTTENTOT PORPHYRY MOLYBDENITE DEPOSIT, MINERAL CO., NEVADA

SCALE: 1"=700' G.L.: DRAWN BY: [illegible] DATE: NOV. 1979 [illegible]

Figure 6

KENNECOTT EXPLORATION INC. — GEOPHYSICS DIVISION OPERATIONS
VECTOR IP PR WORKSHEET

6000 0082 (0760)

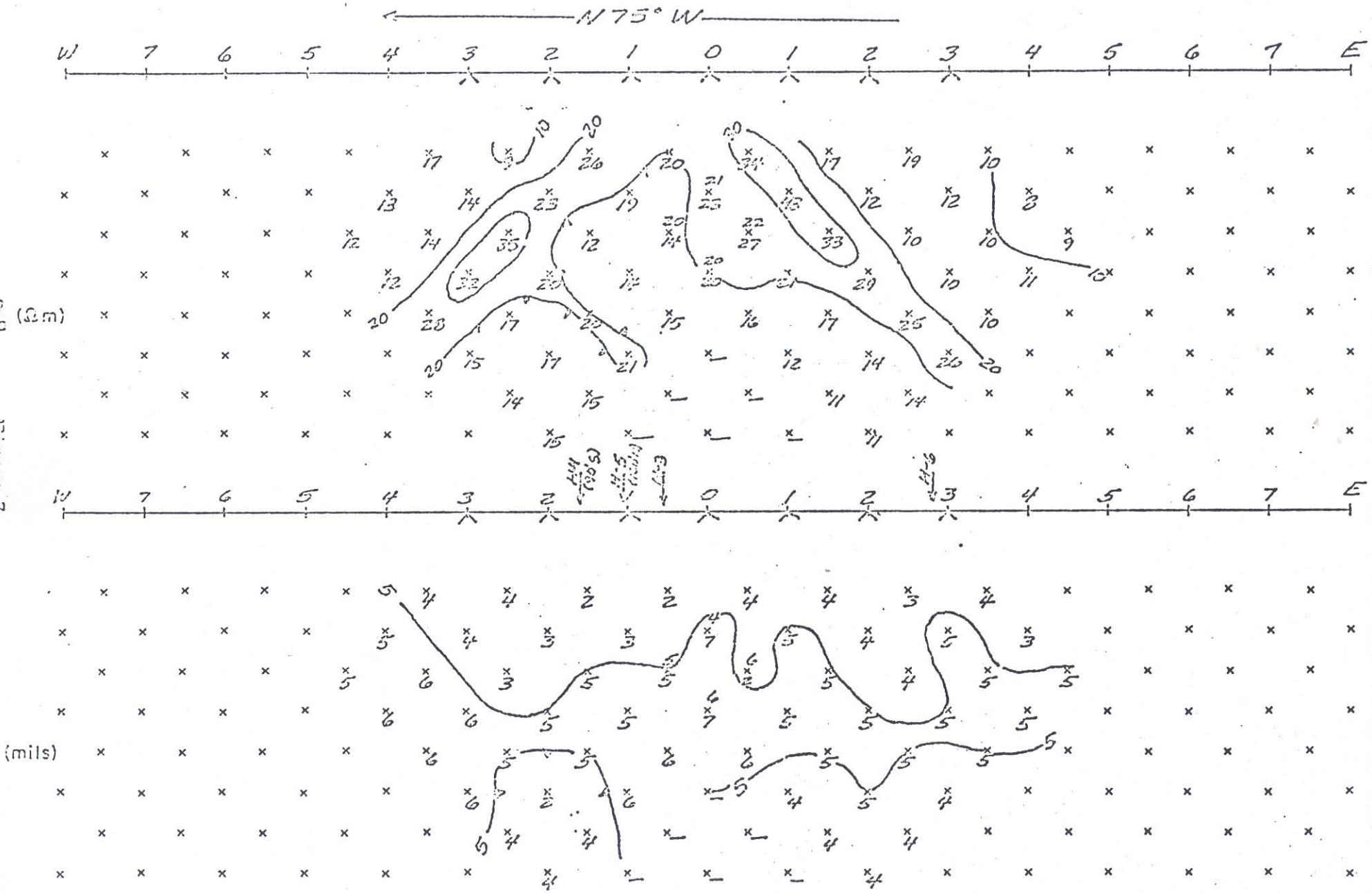

Figure 7

AREA HOTTENTOT MAGNETITE DEPOSIT STATE NEVADA LINE NO. 1 DATA BY H.R. ROSE DATE OCTOBER 25, 1974

TRANSMITTER FT-20 RECEIVER HK IV, #3, #6 DIPOLE - DIPOLE ARRAY a = 200 FEET

Kennecott Exploration Services 2300 West 1700 South, Salt Lake City, Utah 84104 • Phone 801-[illegible] • TWX 910-925-5624

6000 0082 (0760) (2)

MEMORANDUM

July 18, 1975

TO: Bill and Kay Wilson
Idaho Mining Corpration

From: Ward Carithers
Consulting geologist

Subject: Drill logs, holes H-100, D-10F, D-23

Herewith are a set of logs for holes [redacted] D-10F on the Alpers claim and D-23 at Copper Hill.

MAIN HOTTENTOT

I think we have already discussed the significance of H-100; the pre-Tertiary rock types are identical as those at the main Hottentot, and I imagine that the mineralization in this hole considerably increases the iron potential for the general Hottentot area.

Hole D-10F, the most easterly hole in the D-10 fence, penetrated the upper plate andesitic rock and after going through the Gillis thrust zone, continued in lower plate limestone to the bottom. However, the pyrite content in the thrust section is disappointingly low--less than 25 percent--and the hole might therefore be near the periphyry of this mineralization. No evidence of copper was observed in this hole.

Upper Hill

After penetrating the Tertiary volcanics, hole D-23 ran through the andesite of the Gillis thrust upper plate down to 245 feet. A fault zone--probably the north-dipping one which crops out in the saddle--was then intersected, and the hole continued on down in limestone of the lower plate to the bottom. The limestone is increasingly silicified downward, probably reflecting its proximity to the quartz monzonite intrusive. Small amounts of copper minerals and molybdenite were observed in the siliceous zones.

Ward Carithers

Ward Carithers

WC:c
attach

6000 0082 (0760) H-100

Ward Carithers
Mining Geologist

DRILL HOLE LOG

Company _____ Proj. _____

HOLE NO 100
Sheet 2 2

Contractor _____ Size Hole _____ Location N _____ E _____ Water Elev _____ Total Depth 831

Date Collared _____ Completed _____ Elevation _____ Bear _____ Dip _____ Date _____ Logged by W CARITHERS

FOOTAGE From	FOOTAGE To	FOOTAGE Wth	ROCK TYPE Description / Appearance / Structure	Silic	Argil	Seric	K-spar	Biot	Epi-gar	Py %	$CaCO_3$	Geol Col'mn 1" =
670	720	50	MOSTLY LT. GREY TO BROWN, MED. TO FINE GRAINED IGNEOUS ROCK, PROB. ORIGINAL ANDESITE, WITH MODERATE TO STRONG ARGIL. OF FELDSPARS, SILICA FLOODING, BLEACHING OF FERRO-MAGNESIAN MINERALS. LITTLE BLACK STAIN 710-20; (MNOx?)	++	++	-	-	-	+	-	+	
720	805	85	MOSTLY CALC-SILICATE ROCKS WITH MINOR FERROMAGS CONTAINING 35-50 % MAGNETITE. SOMEWHAT CALCAREOUS, LITTLE OR NO CONTAMINATION FROM OVER-LYING VOLCANICS. VERY MINOR CHALCOPYRITE, PYRRHOTITE	+	-				+		+	
805	828	23	POOR RETURN DUE TO WET HOLE SAMPLE CONTAMINATED, ETC. CONSIDERABLE MAGNETITE, HOWEVER									
828	831	3	NX CORE; ABOUT 65 PERCENT MAGNETITE 15% PYRITE & PYRRHOTITE AND 20% CALC-SILICATE ROCK.	+	-	-	-	-	+	+	+	

ANALYSES — Analyst _____ Method _____

From	To	Wth	Samp No		%Fe	%Cu					EST MAG.
710	720	10	Hico/72		16.6	.025					10
	730	"	73		32.6	.069					25
	740	"	74		29.6	.069					50
	750	"	75		30.4	.044					50
	760	"	76		29.4	.056					35
	770	"	77		35.8	.050					50
	780	"	78		32.8	.050					50
	790	"	79		32.6	.056					50
	800	"	80		29.6	.050					40
800	805	5	80[5]		39.8	.037					60
805	828	23			33[2]	.018					-
828	831	3			52.8	.138					65

6000 0082 (0760) H-100

Ward Carithers
Mining Geologist

Company: IDAHO MINING CORP

DRILL HOLE LOG

Pr: WALKER RIV. IND. RES. - HOTTENTOT

HOLE NO: 1 100
Sheet: 1 2

Contractor: EKLUND
Size Hole: 5" ± ROTARY
Location N: E:
Water Elev:
Total Depth: 831'

Date Collared: Completed: MAY, 1975
NXCORE 828-831
Elevation: Bear: - Dip: 90° Date: JULY 2, 1975 Logged by: W. Carithers

FOOTAGE From	FOOTAGE To	FOOTAGE Wth	ROCK TYPE Description / Appearance / Structure	Silic	Argil	Saric	K-spar	Biot	Epi-gar	Py %	$CaCO_3$	Geol Col'mn 1" =
0	250	250	LT. GREY TO LT PINK VOLCANIC ASH - PROB QZ-LATITE; SOME ALTERATION W/CONSID CLAY; LITTLE MAGNETITE, EUHEDRAL BIOT	·	++	-	·	+	-	-	·	
250	335	85	DK BROWNISH GREY, GLASSY VOLCANIC FLOW ROCK(?) WITH LATHES OF FELDSPAR, BLEBS OF FEOX + JAROSITE	·	+							
335	350	15	PINK TO PINKISH GREY, ARGILLIZED ASH. FEW PEBBLES AT BASE		++							
350	570	220	LT GREY VOLCANIC ASH SIMILAR TO 0-250 WITH CONSID CLAY; little MAGNETITE, BIOTITE. Lt. PINK 390-400; Lt BROWN TO TAN 480-500 AND GRADING TO LIGHT GREENISH BELOW 550. (FERRIC TO FERROUS FE)		++			+				
570	620	50	LT. GREEN, QUITE CLAYEY VOLCANIC ASH AS ABOVE WITH BIOTITE, LITTLE MAGNETITE		++			+				
620	660	40	PINK TO GREENISH-GREY VOLCANIC ASH AND CLAY WITH FRAGMENTS OF NON-VOLC. ROCK — PROB OLD WEATHERED SURFACE		++							
660	670	10	BRIGHT GREEN HORNFELSE ROCK CONSID STAINED BY FeOx.	+					+	·	+	

ALTERATION/MINERALIZATION

ANALYSES
Analyst:
Method:

From	To	Wth	Samp No

6000 0082 (0760)

NORTH HOTTENTOT DRILLING SUMMARY (Data are from Idaho Mining Corp. & Walker-Market Mining Co. records unless otherwise noted)

	DEPOSIT LOCATION	HOLE	TOTAL DEPTH (feet)	MINERALIZED INTERVAL FROM	TO	FEET	(in ppm unless noted) Au	Ag	% Fe	% Cu	% Pb	REMARKS
1.	North Hottentot	H-1	1228	712.0	744.0	32	—	—	52.8	0.06	—	Tuffs from 223.0 to 703.2 ft; diorite
				878.2	888.5	10.3	—	—	—	0.14	—	from 752.9 to 1228.0 ft (T.D.); diorite
	Abbot Hunts assays			890.0	903.7	13.7	—	—	—	0.22	0.05	brecciated from 757.6 to 1228.0 ft
	see Richard pp. 19, 20,			903.7	913.4	9.7	—	—	—	0.08	0.06	(T.D.); diorite chloritized, argillized, with
	25, & 27.			919.6	921.7	2.1	Tr	—	55.4	0.07	0.04	some silicification & albitization.
				1111.8	1120.9	9.1	Tr oz/T	0.15 oz/T	—	—	—	
2.	North Hottentot	H-1A	1046	10.0	190.0		No assay data available					Trace to 3% Magnetite
				280.0	290.0							2 to 3% Magnetite
	from log narrative -			490.0	515.0							Green & blue copper carbonate
	see Richard p. 55			515.0	525.0							Trace copper carbonate
				800.0	864.0							Qtz monzonite diorite, argillized, chloritized
				864.0	1046.0							& silicified from 515.0 to 1046.0 ft; brecciated
												from 864.0 to 1046.0 ft (T.D.).
3.	North Hottentot	H-1B	1116.7	970.0	—		No assay data available					Trace copper
				990.0	—							Trace copper
	from log narrative -			1035.0	—							Trace to 0.5% magnetite & pyrite
	see Richard p. 62											Qtz monzonite from 725 ft to T.D.,
												argillized, silicified, & albitized.
4.	North Hottentot	H-100	831.0	710.0	805.0		—	—	31.6	0.06	—	Charge from andesite lava to
				805.0	828.0		—	—	32.2	0.02	—	skarn & LS at 710 to 805 ft
	from Idaho Mining Corp			828.0	831.0		—	—	52.8	0.14	—	
	Map No. 6D											

6000 0082 (0760)

South Hottentot Drilling Summary

	Deposit Location	Hole	Total Depth (feet)	Mineralized Interval From	To	Feet	(in ppm unless noted) Au	Ag	% Fe	% Cu	% Pb	Remarks
1.	South Hottentot from I.M. Corp Map No. 6-D & Redmond p. 76, 116	H-3	227.0	41.0	126.0	85.0			58.0	0.10	—	Granodiorite or diorite from 198.0 to 227.0 (T.D.)
				171.5	200.0	28.5			45.6	—	—	
2.	South Hottentot from I.M. Corp Map No 6-D & Redmond p. 116	H-3A (AKA H-4)	270.0	130.0	147.1	17.1			54.3			Granodiorite or diorite from 152.5 to 270.0 ft (T.D.); Chloritized, argillized, & silicified; albitized below 213.5 brecciated from 172.0 to 195.8, & from 229.4 to 270.0 ft (T.D.).
3.	South Hottentot from I.M. Corp Map No. 6-D & Redmond, p. 116	H-3B (AKA H-5)	354.6	125.0	331.2				36.6			Diorite from 14.0 to 354.6 ft (T.D.); argillized, chloritized, with some silicification; brecciated from 175.0 to 191.0 ft, & from 240.4 to 252.0 ft.
				331.2	354.6				18.4			
				246.0	354.6					0.10		
4.	South Hottentot from I.M. Corp Map No. 6-D & Redmond, p. 116-117	H-3C	212.3	0.0	49.1	49.1			17.2			Calc-silicates from 0.0 to 6.0 ft; Diorite from 8.0 to 212.3 ft (T.D.); argillized, chloritized; brecciated from 92.6 to 95.0 ft.
				49.1	127.0	77.9			34.6			
				127.0	157.5	30.5			21.8			
				49.1	157.5	108.4				0.08		
5.	South Hottentot from I.M. Corp Map No. 6-D & Redmond, p. 117	H-3D	150.0	0.0	94.5	94.5			33.5			Diorite from 0.0 to 150.0 ft (T.D.); argillized & chloritized; silicified & brecciated from 87.5 to 150.0 ft.
6.	South Hottentot	H-3E	149.0									No significant mineralization — ore zone thought to be down-faulted below T.D. Intrusive rocks (diorite "completely shattered"
7.	South Hottentot	H-3F	159.0	19.0	49.0	30.0			50.2			Diorite from 7.5 to 72.4 ft; contact zone (Skarn?) from 103.3 to 135.0 ft Qtz diorite from 135.0 to 159.0 ft (T. brecciated from 137.0 to 141.0 ft.
				72.0	135.0	63.0			44.4			
				108.1	135.0					0.11		

6000 0082 (0760)

South Hottentot Drilling Summary

	Deposit Location	Hole	Total Depth (feet)	Mineralized Interval From	To	Feet	Au (in ppm unless noted)	Ag	% Fe	% Cu	% Pb	Remarks
8.	South Hottentot	H-3G	318.0	19.5	96.0	76.5			51.3	0.109		Diorite from 100.6 to 175.0 ft; chloritized, argillized, & some silicification
				133.0	150.5	17.5			50.4	0.11		
9.	South Hottentot	H-3H	221.0	163.5	178.5	15.0			56.0	0.05		Qtz diorite from 145.5 to 221.0 ft (T.D.); chloritized, argillized, & silicified; brecciated from 145.5 to 163.3 ft, & from 178.6 to 192.8 ft.
10.	South Hottentot	H-3I	180.0				No assay data available					No log narratives available
11.	South Hottentot	H-3J	unk				No assay data available					No log narratives available
12.	South Hottentot	H-3K	Unk				No assay data available					No log narratives available
13.	South Hottentot	H-3L	350.0				No assay data available					No log narratives available
14.	South Hottentot	H-3M	290.0	120.0	160.0	40.0			39.8			No log narratives available
				160.0	200.0	40.0			±10.0			
				200.0	240.0	40.0			41.7			
15.	South Hottentot	H-3?	Unk				No assay data available					No log narratives available
16.	South Hottentot	H-7	300.0				No assay data available					
17	South Hottentot	H-8	300.0	40	50	10.0			21.2			
				50	140	90.0			51.9			
				140	150	10.0			18.2			

6000 0082 (0760)

Southeast
Hottentot Drilling Summary

	Deposit Location	Hole	Total Depth (feet)	Mineralized Interval From	To	Feet	Au (in ppm unless noted)	Ag	% Fe	% Cu	% Pb		Remarks
1.	Hottentot Southeast	H-6	429.5 [3]	177.0 [1]	388.0 [1]	205.5 [2]			48.0 [2]				Diorite from 261.0 to 269.0 ft, & from 354.0 to 429.5 ft (T.D.); highly argillized & chloritized (Lawrence, & Wilson 1966, p. 154)
2.	Hottentot Southeast	H-6A	509.0 [2]	295.0 [2]	425.0 [2]	130.0 [2]			49.2 [2]	0.12 [2]			Qtz. latite tuff. To 286.0 ft; basalt from 286.0 to 288.2 ft; 288.2 to 290.8 is gouge; andesite from 290.8 to 293.2 ft; mineralized dio. from 293.2 to 424.5 ft with [illegible] silver bearing dio. to 509.4 ft.
3.	Hottentot Southeast	H-6B	300.0 [3]					No assay data available					Tuff from 0.0 to 231.5 ft. Qtz diorite / qtz monzonite from 231.5 to 300.0 ft (T.D.); brecciated, & argillized, silicified & some albitization. [1,3]
4.	Hottentot Southeast	H-6C	401.0 [2]	200.0 [2]	270.0 [2]	70.0 [2]			46.4 [2]	0.1 [2]			Tuff from 0.0 to 185.0 ft. Fragments of Qtz diorite at 185.0 ft. [3]
5.	Hottentot Southeast	H-6D	242.0 [2]	170.0 [2] 190.0 [2]	190.0 [2] 200.0 [2]	20.0 [2] 10.0 [2]			45.2 [2] 7.5 [2]				Andesite from 0.0 to 15.0 ft. Tuff from 15.0 to 160.0 ft. Qtz monzonite from 168.0 to 242.0 ft (T.D.); brecciated from 200.0 to 222.0 ft; moderately argillized & slightly silicified. [3]
6.	Hottentot Southeast	H-6E	420.0 [2]	190.0 [2]	400.0 [2]	210.0 [2]			42.9 [2]	0.1 [2]			Tuff from 0.0 to 120.0 ft. [3]

[1] Lawrence & Wilson, 1966, p. 154
[2] Idaho Mining Corp, ——, Map No. 6D
[3] Redmond

6000 0082 (0760)

SOUTHEAST
HOTTENTOT DRILLING SUMMARY

	DEPOSIT LOCATION	HOLE	TOTAL DEPTH (feet)	MINERALIZED INTERVAL From	To	Feet	(in ppm unless noted) Au	Ag	% Fe	% Cu	% Pb	REMARKS
7.	Hottentot Southeast	H-6F	353.0 2/	278.0 2/	289.0 2/	11.0 2/			47.0 2/			Tuff from 0.0 to 275.0 ft. Qtz monzonite from 289.0 to 353.0 ft (T.D.); silicified & albitized from 289.0 to 322.0 ft; brecciated from 294.0 to 304.0 ft.
8.	Hottentot Southeast	H-9	500.0 2/	230.0 2/	300.0 2/	70.0 2/			41.6 2/			No log narrative available
9.	Hottentot Southeast	H-10	390.0 2/	210.0 2/	260.0 2/	50.0 2/			47.0 2/			No log narrative available
				260.0 2/	320.0 2/	60.0 2/			±10.0 2/			
				320.0 2/	390.0 2/	70.0 2/			45.6 2/			
10.	Hottentot Southeast	H-11	500.0 2/	310.0 2/	330.0 2/	20.0 2/			14.7 2/			No log narrative available
				380.0 2/	410.0 2/	30.0 2/			14.5 2/			
				440.0 2/	460.0 2/	20.0 2/			20.5 2/			
11.	Hottentot Southeast	H-12	345.0 2/	260.0 2/	280.0 2/	20.0 2/			19.0 2/			No log narrative available
12.	Hottentot Southeast	H-13	Unk				No assay data		available			No Log narrative available
13.	Hottentot Southeast	H-14	300.0 2/				No assay data		available			No Log narrative available
1.	Outside anomalies	H-2	801.5			10.0			10.0			
2	Outside anomalies	H-101	452.0				No assay data		available			