6000 0077 (0760)

Hottentot

Holes Hle => HleF

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Hottentot No. H-6

SE Hottentot

Preliminary Drill Log

0.0 - 150.0 Quartz-latite tuff, white to buff colored; 25% plagioclase, 20% orthoclase, 5% quartz, 5-10% biotite, 20% glass shards, 5% rock fragments, 2-5% magnetite; rock is slightly magnetic in places; magnetite is euhedral, with considerable magnetite in the biotite; biotite is euhedral, quite fresh; rock is slightly argillized. Plugged to 150.0 feet.

150.0-155.0 DDH - same as above; core slightly magnetic, fairly fresh.

155.0 - 177.0 Plug-bit - same as above

177.0 - 178.5 Plug bit - Mineralized zone with magnetite and hematite fragments along with quartz latite fragments.

DDH

178.5 - 229.7 Mineralized zone - whole section approximately same, with varying amounts of iron, magnetite varies from 15 to 60%, with varying amounts of hematite, in some places up to one-half; the irom appears to be replacing a fine-grained diorite, however at 186.0 to 194.5 the remnants of country rock appears to be diabasic in texture, as at 205.0-206.0; 3 to 10% calcite scattered throughout the section and as veinlets; considerable jarosite in places; 10 to 50% chlorite; rock slightly to moderately argillized; small amounts of opaline material; in places up to 5-10% gypsum; pyrite at 223 to 229 up to 1%; chalcopyrite at 229; up to 2% copper at 199.0 - 200.0 as malachite; in places ore broken by post-mineral faulting; 30 to 60% iron minerals at 178.5 to 204.0, 15 to 40% at 204.0 - 216.0; and 20 to 55% at 216.0 to 229.7.; sporadic copper.

229.7 - 260.0 Mineralized zone - varying amounts of chlorite, actionolite, and magnetite; chlorite appears to be replacing actionolite and hornblende; magnetite occurs as tiny crystals, veinlets, uncrystallized(?) irregular pods, ans as disseminated grains; partially oxidized to limonite and hematite; small amounts of chalcedony in veinlets; pyrite appears to be replacing magnetite in places, gypsum common as veinlets and near fractures, up to 20% in places but usually 3 to 5%; magnetite appears to have been deposited as a colloid and possibly later crystallized; magentite varies from 20 to 60%, being 20 to 45% at 229.7 - 256.0 and 40 to 60 % at 256.0-260.0.

260.0 - 261.4 Gouge with fragments of silicified fine-grained intrusive rock, probably a border facies of the diorite.

261.7 - 268.4 Silicified fine-grained intrusive, probably dioritic.

268.4 - 269.4 Same, but with considerable hornblende, texture diabasic, highly chloritized.

269.4 - 286.6 Mineralized zone - varying amounts of actionolite, chlorite, and magnetite; 5-10% gypsum as veinlets and along fractures; 3-5% carbonate; a few scattered grains of chalcopyrite; up to 2% pyrite at 274.0- 286.6; 45 to 60% magnetite; 30 to 60% chloritized.

286.6 - 287.2 Silicified fine-grained intrusive, probably dioritic.

287.2 - 354.6 Minralized zone - Actinolite, chlorite, and magnetite in varying amounts; 3-5% gypsum as veinlets and along fractures; 2-5% carbonate except 25% at 306; chalcopyrite scattered throughout section, and up to 1% in several small areas; pyrite from 3 to 8%; 45-65% magnetite, with 65% from 325 to 340; 20 to 40% chloritized except 65% at 324 feet; at 289.4 veinlets of calcite, chalcedony, and pyrite; some of pyrite in pyritihedrons; pyrite appears to be replacing magnetite in places; at 312.0 cahlcopyrite occurs along grain boundaries of chlorite, appearing to be later than the chlorite; at 329.4 vugs contains drussy quartz with slender crystals of gypsum on the drussy quartz, and both with tiny crystals of magnetite perched on them, with some magnetite appearing to be later than the gypsum and the drussy quartz; chalcopyrite occurs as veinlets and disseminated veinlets and grains at 341.0-348.0; an 3/4" veinlet of chalcedony at 344.0 and another one at 344.8, increased chlorite at 354.0-354.6.

354.6 - 361.1 Diorite and fine-grained intrusive - fine-grained groundmass with numerous phenocrysts of pyroxene, hornblende, and plagioclase; in places nearly granitic in texture; considerable chlorite; 15% silicified; 30-50% chloritized; slightly argillized;

361.1 - 370.7 Mineralized zone - same as other mineralized zones above; with 35-55% magnetite; 6% pyrite; 5% gypsum; 30-45% chloritized.

370.7 - 371.4 Diorite, slightly silicified; 35-45% chloritized; with scattered magnetite as grains and small pods.

371.4 - 379.6 Mineralized zone - same as mineralized zone above, with 40-50% magnetite; scattered chalcopyrite; 2% pyrite; 5% gypsum.

379.6 - 388.8 Fine-grained intrusive, probably dioritic; highly argillized and chloritized at 385.2-388.0, shear zone at 388.0.

388.8 - 396.5 Fine-grained diorite, 15-35% argillized; slightly silicified; 35-60% chloritized; a few scattered grains of pyrite, highly sheared.

396.5 - 412.5 Shear zone with fragments of fine-grained intrusive; considerable magnetite and hematite at 396 - 408; highly argillized and chloritized.

412.5 - 425.4 Fine-grained intrusive, probably a silicified diorite; considerable chlorite; hornfelsic in texture;

425.4 - 429.5 Gouge, brecciated with considerable clay and gouge; 3% pyrite at 427; scattered pyrite through section; 5% gypsum.

Bottom - 1/6/65

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South Hottentot Drill Core Samples and Assays.

DH H-3

	Interval		Thickness	Iron Assay %
500R	41.0	50.5	9.5	59.78
649R	50.5	60.4	9.9	55.45
650R	60.4	69.5	9.1	59.66
709R	69.5	80.8	11.3	62.13
710R	80.8	91.0	10.2	49.82
711R	91.0	102.0	11.0	60.13
712R	102.0	112.0	10.0	60.60
713R	112.0	122.0	10.0	57.44
714R	122.0	126.0	4.0	55.56
	126.0	171.5	45.5	No Sample
719R	171.5	184.0	12.5	47.83
720R	184.0	192.7	8.7	40.79
721R	192.7	200.0	7.3	47.24

		# AU
715R	126-31	.03½
716R	131-36	.07
717R	136-45	.Tr
718R	145-51	Nil

Composite sample of those making up the interval 41.0 through 126.0
SiO_2= 8.12% P= 0.13% S= 0.07% Cu= 0.10%

DH 3A

391V	130.0	147.1	17.0	54.29

(May have rotary drilled through limonite/hematite zone starting at approximately 100 feet.)

DH 3B

					%Copper
801R -	125.0	150.4	25.4	50.15	
	150.4	154.8	4.4	No sample	
802R -	154.8	177.5	22.7	45.11	
	177.5	188.4	10.9	No sample	
803R	188.4	207.4	19.0	55.07	
804R	207.4	230.5	23.1	51.83	
805R	230.5	239.5	9.0	36.94	
	239.5	246.0	6.5	No sample	
989R	246.0	266.7	20.7	33.2	0.113
990R	266.7	292.7	26.0	47.6	0.138
991R	292.7	310.0	17.3	28.0	0.088
993R	310.0	331.2	21.2	22.8	0.063
994R	331.2	354.6	23.4	18.4	0.050

DH 3C

872R	0	13.5	13.5	21.9
873R	13.5	22.5	9.0	21.3
974R	22.5	28.5	6.0	17.3
875R	28.5	37.4	8.9	25.9
876R	37.4	49.1	11.7	9.2

South Hottentot Continued.

	Interval		Thickness	% Iron	%Copper
	DH 3C continued.				
825R	49.1	67.6	18.5	50.4	0.088
826R	67.6	91.0	23.4	47.6	0.094
827R	91.0	110.0	19.0	61.6	0.088
828R	110.0	127.0	17.0	61.2	0.075
	127.0	129.1	2.1	No sample	
829R	129.1	144.0	14.9	24.8	0.100
830R	144.0	157.5	13.5	18.2	0.050
	DH 3D				
831R	0	25.0	25.0	42.8	
832R	25.0	35.0	10.0	41.2	
833R	35.0	51.0	16.0	32.4	
834R	51.0	72.0	21.0	15.0	
835R	72.0	94.5	22.5	37.8	

DH 3E Bottomed at 148 feet. Peg Model indicates the possibility that the ore section may be down faulted below the bottoming depth. The intrusive rock was completely shattered . Hole cost was approximately $18/foot drilled.

	DH 3F				
846R	19.0	30.0	11.0	43.6	
847R	30.0	49.0	19.0	54.0	
	49.0	72.0	23.0	No Samples	
848R	72.0	81.6	9.6	49.2	
849R	81.6	103.3	21.7	54.0	
850R	103.3	108.1	4.8	29.2	
951R	108.1	125.0	16.9	35.6	0.107
952R	125.0	135.0	10.0	40.8	0.113
	DH 3G				
955R	19.5	48.5	29.0	46.0	0.119
956R	48.5	65.2	16.7	61.2	0.050
961R	65.2	66.7	1.5	44.8	
957R	66.7	76.7	10.0	58.4	0.315
958R	76.7	82.2	5.5	46.8	0.113
959R	82.2	96.0	13.8	48.0	0.107
	96.0	133.0	37.0	No Samples	
960R	133.0	150.5	17.5	50.4	0.113
	DH 3H				
962R	163.5	178.5	15.0	56.0	0.050

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Southeast (was designated #3) Hottentot Drill Core Assays.

	Interval		Thickness		Assay % Iron		Copper	
	DH 6							
722R	178.5	187.5	9.0		60.5	544.5		1157.9/19 = 60.9
723R	187.5	197.5	10.0		61.34	613.4		
724R	197.5	203.0	5.5		59.33		0.19	
725R	203.0	209.5	6.5		43.04	279.76		
726R	209.5	214.3	4.8		45.78	219.74		
727R	214.3	229.8	15.5	58	54.23	840.57		2856.79/58 =
728R	229.8	248.2	18.4		46.73	859.83		
729R	248.2	261.0	12.8		51.32	656.89		49.3
—	261.0	269.5	8.5		No sample			
730R	269.5	280.5	11.0		55.81			
731R	280.5	290.5	10.0		45.22		0.13	
732R	290.5	300.5	10.0		58.26		0.15	
733R	300.5	310.5	10.0		61.90		0.21	
734R	310.5	318.5	8.0		57.93		0.13	
735R	318.5	324.2	5.7		57.43		0.17	
736R	324.2	337.1	12.9		57.48		0.15	
737R	337.1	354.0	17.9		48.13		0.18	
—	354.0	362.2	8.2		No sample			
738R	362.2	384.0	21.8		48.36			
	DH 6A							
807R	293.5	313.5	20.0		59.6		0.107	
808R	313.5	333.5	20.0		57.2		0.137	
809R	333.5	352.5	19.0		56.0		0.088	
824R	352.5	355.0	2.5		59.6		0.080	
—	355.0	361.6	6.6		No sample			
995R	361.6	387.0	25.4		57.2		0.176	
—	387.0	396.7	9.7		No sample			
996R	396.7	423.2	26.5		52.0		0.132	

Interval 361.6 to 387.0 includes 7.6 feet of completely unmineralized rock.

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SOUTHEAST HOTTENTOT

ROTARY DRILL PROJECT H6-B,C,D,E,F

During the period July 25th to August 2nd, 1966 a rotary drilling project was effected on the Southeast Hottentot magnetic anomoly whereby five holes, offsetting the two previously drilled holes (H6, H6A), were taken down with a rotary drill and air sampling.

The object of this project was to rotary down through the volcanic formations and just into the iron mineralization. The coring of the mineralized section is to be accomplished at a future date, as yet undetermined.

The rotary drilling was undertaken at this time to facilitate retention of the drill rig during a short period of time pending a decision as to further rotary drilling on other projects in the area.

The sampling of cuttings followed our regular proceedure of continuous samples, breaking on five foot intervals, until mineralization is suspected. Then sampling is done on two or one foot intervals until mineralization is positively established.

RESULTS

H6 location--820E 375S) previously drilled, both
H6A location--800E 250S) are ore holes.

H6B location--670E 370S

Drilled to a depth of 190' at which point moist clay precluded further air drilling and sampling. NX casing was set to 180'. The bottom of the hole could not be reached due to caving and/or building up of cuttings on the walls of the hole. When a core drill occupies this site and washes the hole, the casing should seat on the bottom.

This hole did not penetrate sufficiently depp to contact the mineralization, however it should take only a few more feet to do so. At our option, a core drill can start coring at this depth or plug on down to the iron.

H6C location--940E 400S

Drilled to a depth of 192'. NX casing set to 188'. All remarks about H6B,above, pertain also to this hole.

H6D location--805E 500S

Drilled to a depth of 168'. Some mineralization was encountered at about 165' and three onefoot interval samples to 168' established the presence of ore grade mineralization.

this hole, as well as H6Eand H6F, were not cased due to the unavailability of NX casing at this time.

H6E location--1000E 490S

Drilled to a depth of 120'. Moist clay was encountered at this depth precluding further air drilling and sampling. Casing was not available.

H6F location--690E 220S

Drilled to a depth of 278'. Mineralization was encountered at 275'. A two foot and a one foot interval samples established the mineralization of ore grade at this depth. Casing was not available.

REMARKS

The above locations are reckoned from the South Hottentot base line and these approximate coordinates may be adjusted when the collars are surveyed.

One equipment breakdown resulted in the drill being non-operational from about 5pm July 29th to Noon, August 1st.

Three hours bulldozer work (D7) was necessary to prepare one of the drill sites. All other sites and road work had been previously prepared when equipment had been available at the project site.

Drilling operations were carried out on the basis of two shifts per day and nearly continuous supervision, as required by this method of drilling and sampling.

The actual time spent in drilling and related operations (excluding set-up, tear-down, moving and casing) was about 75 hours.

Total footage drilled was 948'.

Average penetration rate was about 12½ feet per hour using three 5 1/8" V-1 retip bits and one 5 1/8" V-2 new bit.

The Drill rig was demobilized from this project on August 3rd.

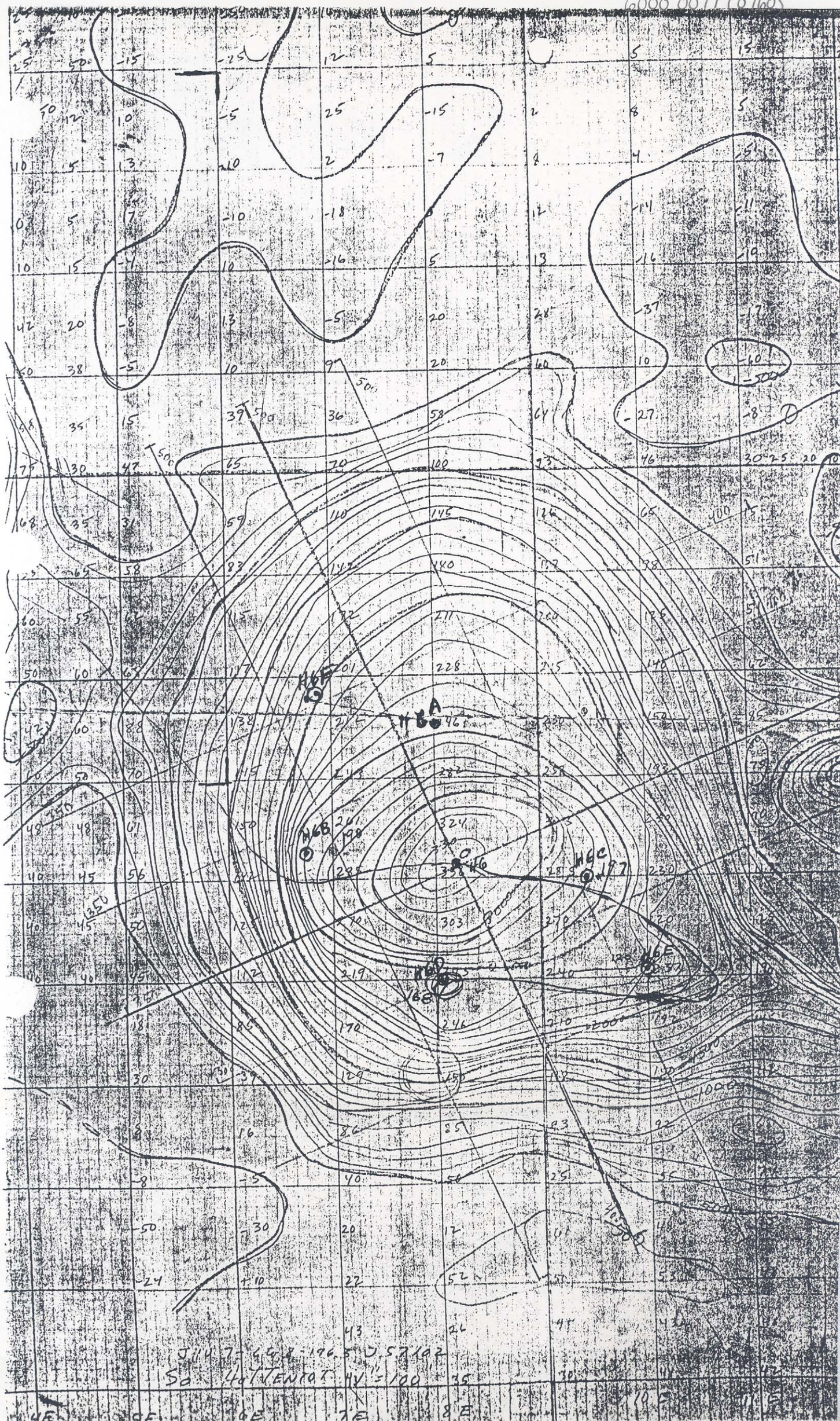
A. K. Wilson, Jr.

Details of Drilling rotary rig 7/25 - 8/2/66

Southeast Hottentot H6-B, C, D, E, F

	Date	Drilling	Set-up Tear-down	Repair	Casing	Core Run	From	To	Footage	Casing Set To	
H6-B	7/25	4	5				0	30	30		
	"	9					30	175	145		
D. 190'	7/26	5	1		4		175	190	15	180	
H6-C	7/26	8	2				0	160	160		
	7/27	6				3	160	192	32		
D. 192'	"		5½		3					188	
H6-D	7/27	½					0	0	0		
	7/28	7	1				0	10	10		Moved rig because of boulder.
D. 168'	"	10					10	150	140		
	7/29	3	3				160	168	8		Mineralization ±165
H6-E	7/29	3					0	20	20		
	"	4		4			20	60	40		breakdown 5pm
D. 120'	8/1	5		5			60	105	45		
	8/2	4	3				105	120	15		
H6-F	8/2	4					0	45	45		
	8/2	6	3				45	278	233		Mineralization ±275
D. 278'											

Rig demobilized 8/3



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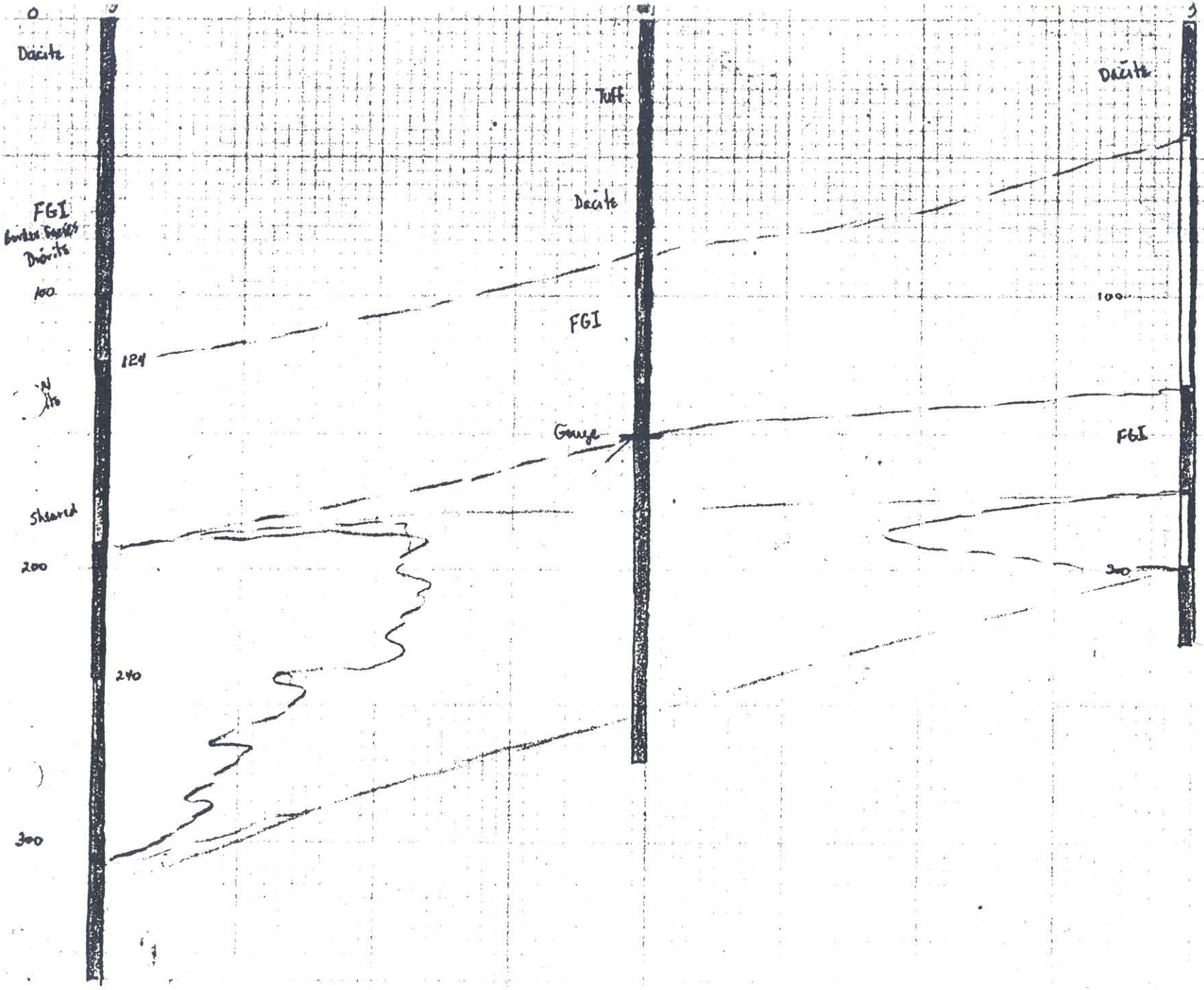

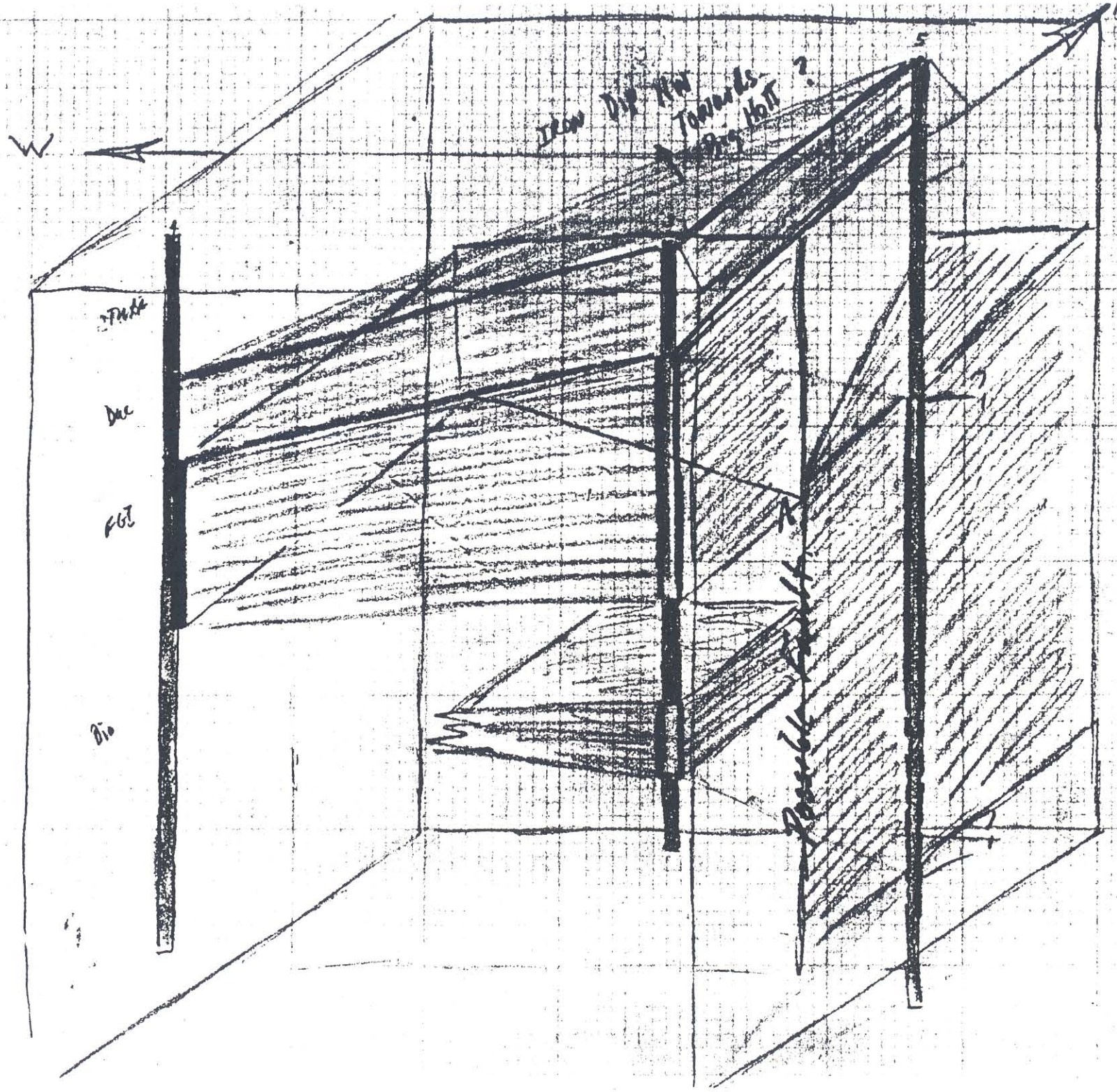
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SOUTHEAST HOTTENTOT

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This hole did not penetrate sufficiently depp to contact the mineralization, however it should take only a few more feet to do so. At our option, a core drill can start coring at this depth or plug on down to the iron.

H6C location--940E 400S

Drilled to a depth of 192'. NX casing set to 188'. All remarks about H6B,above, pertain also to this hole.

H6D location--805E 500S

Drilled to a depth of 168'. Some mineralization was encountered at about 165' and three onefoot interval samples to 168' established the presence of ore grade mineralization.

this hole, as well as H6Eand H6F, were not cased due to the unavailability of NX casing at this time.

H6E location--1000E 490S

Drilled to a depth of 120'. Moist clay was encountered at this depth precluding further air drilling and sampling. Casing was not available.

H6F location--690E 220S

Drilled to a depth of 278'. Mineralization was encountered at 275'. A two foot and a one foot interval samples established the mineralization of ore grade at this depth. Casing was not available.

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	"	9					30	175	145		
T.D. 190'	7/26	5	1		4		175	190	15	180	
H6-C	7/26	8	2				0	160	160		
	7/27	6				3	160	192	32		
T.D. 192'	"		5½		3					188	
H6-D	7/27	½					0	0	0		
	7/28	7	1				0	10	10		Moved rig because of boulder.
T.D. 168'	"	10					10	150	140		
	7/29	3	3				160	168	8		Mineralization ± 165
H E	7/29	3					0	20	20		
	"	4		4			20	60	40		breakdown 5pm
T.D. 120'	8/1	5		5			60	105	45		
	8/2	4	3				105	120	15		
H6-F	8/2	4					0	45	45		
	8/2	6	3				45	278	233		Mineralization ± 275
TD 278'											

Rig demobilized 8/3

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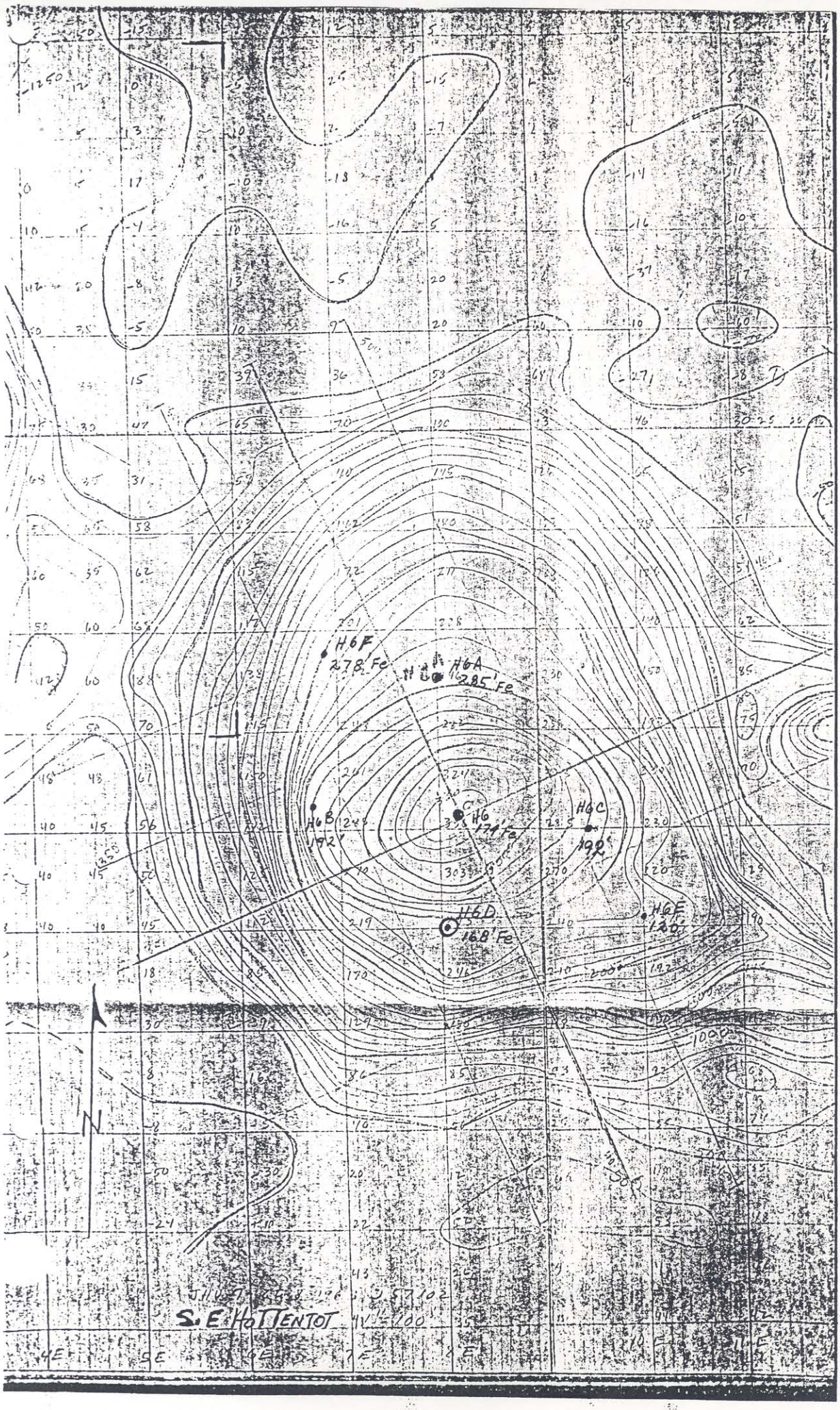

SPEED MESSAGE

6000 0077 (0760)

TO E. F. Lawrence FROM John H. Volgamore

SUBJECT Drill Dates + Depths Hottentot 6B, C, D, E, F.

DATE June 9 1968

Hole	Rotary Start	Rotary Stop	Size	Depth	Core Start	Core Stop	Size	Depth	Remarks
6B	7-23-66	7-26-66	5 1/8	180'	5-17-68	5-24-68	NX	180'-300'	Rec. 180' NX casing
6C	7-26-66	7-27-66	5 1/8"	190'	Not cored				Left 188' casing
6D	7-28-66	7-29-66	5 1/8"	168'	5-3-68	5-11-68	NX	168'-242'	
6E	7-29-66	8-2-66	5 1/8"	120'	Not cored				
6F	8-2-66	8-3-66	5 1/8'	278'	5-13-68	5-16-68	NX	278'-353'	Rec 278' casing

The drillers recovered 180' of casing left in 6B in 1966. They were unable to recover the casing (188') left in 6C in 1966 because the top had been cut with a torch and they couldn't thread in to it. The top wouldn't hold to pull casing.

SIGNED John H. Volgamore
Geologist

File
6000 0077 (0760)

SOUTHEAST HOTTENTOT

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6000 0077 (0760)

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Drilled to a depth of 278'. Mineralization was encountered at 275'. A two foot and a one foot interval samples established the mineralization of ore grade at this depth. Casing was not available.

REMARKS

The above locations are reckoned from the South Hottentot base line and these approximate coordinates may be adjusted when the collars are surveyed.

One equipment breakdown resulted in the drill being non-operational from about 5pm July 29th to Noon, August 1st.

Three hours bulldozer work (D7) was necessary to prepare one of the drill sites. All other sites and road work had been previously prepared when equipment had been available at the project site.

Drilling operations were carried out on the basis of two shifts per day and nearly continuous supervision, as required by this method of drilling and sampling.

The actual time spent in drilling and related operations (excluding set-up, tear-down, moving and casing) was about 75 hours.

Total footage drilled was 948'.

Average penetration rate was about 12½ feet per hour using three 5 1/8" V-1 retip bits and one 5 1/8" V-2 new bit.

The Drill rig was demobilized from this project on August 3rd.

A. K. Wilson, Jr.

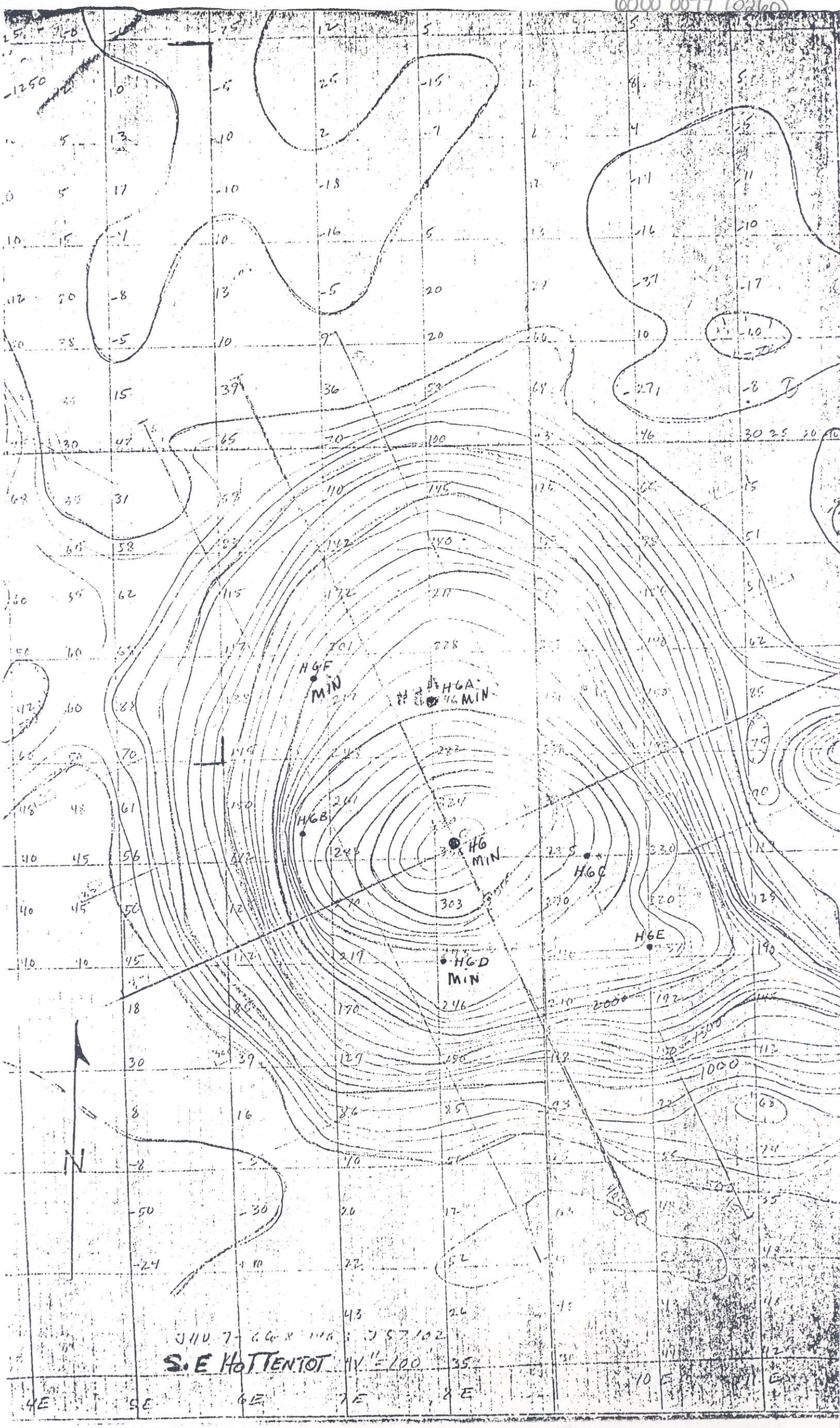
A.K. Wilson, Jr.

Details of Drilling rotary rig 7/25 - 8/2/66

Southeast Hottentot H6-B, C, D, E, F 6000 0071 (0760)

	Date	Drilling	Set-up Tear-down	Repair	Casing	Core Run	From	To	Footage	Casing set to	
H6-B	7/25	4	5				0	30	30		
	"	9					30	175	145		
D. 190'	7/26	5	1		4		175	190	15	180	
H6-C	7/26	8	2				0	160	160		
	7/27	6				3	160	192	32		
D. 192'	"		5½		3					188	
H6-D	7/27	½					0	0	0		
	7/28	7	1				0	10	10		Moved rig because of boulder.
D. 168'	"	10					10	150	140		
	7/29	3	3				160	168	8		Mineralization ± 165
H6-E	7/29	3					0	20	20		
	"	4		4			20	60	40		breakdown 5pm
D. 120'	8/1	5		5			60	105	45		
	8/2	4	3				105	120	15		
H6-F	8/2	4					0	45	45		
	8/2	6	3				45	278	233		Mineralization ± 275
D 278'											

Rig demobilized 8/3



Diamond Drill Log

60000077 (0760) 127

Mine Hottentot — Shoot 1 of 5 — Scale 1" - 10'

Location Walker River Paiute Reservation — By — Au. @

Hole No. H-6 — Date

Bearing Vertical — Coordinates of Collar:

Dip — N

Length of Hole 329.5 — E

	ROCK AND ALTERATION						ASSAYS				MINERALIZATION				
Plugged 0'	Chlor	Carb	Arg	Sili	Ser	Orth	Alb	Sg		Rock	Pyr	Qtz	Fe	Cu	Assay
										Quartz-latite tuff					
10															
20															
30															
40															
50															
60															
70															
80															

Form 138-A

6000 0077 (0760) 128

IDAHO MARYLAND MINES CORPORATION

Diamond Drill Log

Mine Hottentot

Location

Hole No. H-6

Bearing

Dip.

Length of Hole 429.5

Sheet 2 of 5 Scale 1"=10'

By Au. @

Date

Coordinates of Collar:

N

E

	ROCK AND ALTERATION									MINERALIZATION				
	Chlor	Carb	Arg	Silt	Ser	Orth	Alb	Log	Rock	Pyr	Qtz	Fe	Cu	Assay
Plug bit ↓ 80									Quartz Intrusive tuff					
90														
100														
110														
120														
130														
140														
150														
DDH Plug Bit ↓ 160														

Form 135-A

~~NORTH MARYLAND MINES CORPORATION~~

Diamond Drill Log

Hottentot No. H-6

129

60000077 (0760)

Mine Hottentot

Location

Hole No. H-6

Bearing

Dip Vertical

Length of Hole 429.5

Sheet 3 of 5

By

Date

Coordinates of Collar:

N

E

Scale

Au. @

Depth	ROCK AND ALTERATION						ASSAYS			MINERALIZATION				
	Chlor	Carb	Arg	Sili	Ser	Orth	Alb	Log	Rock	Pyr	Qtz	Fe	Cu	Assay
Flush bit 160														
170														
DDH 180								35	Mineralized zone					
								75						
								45						
								20						
								65						
								70						
								15						
190														
200														
210														
220														
230														
240														

F.

60.

61.

59

43

45

54

46

TD

130

6000 0077 (0260)

Diamond Drill Log

Mine: Hottentot

Sheet 4 of 5

Scale

Location

By

Au. @

Hole No. H-6

Date

Bearing

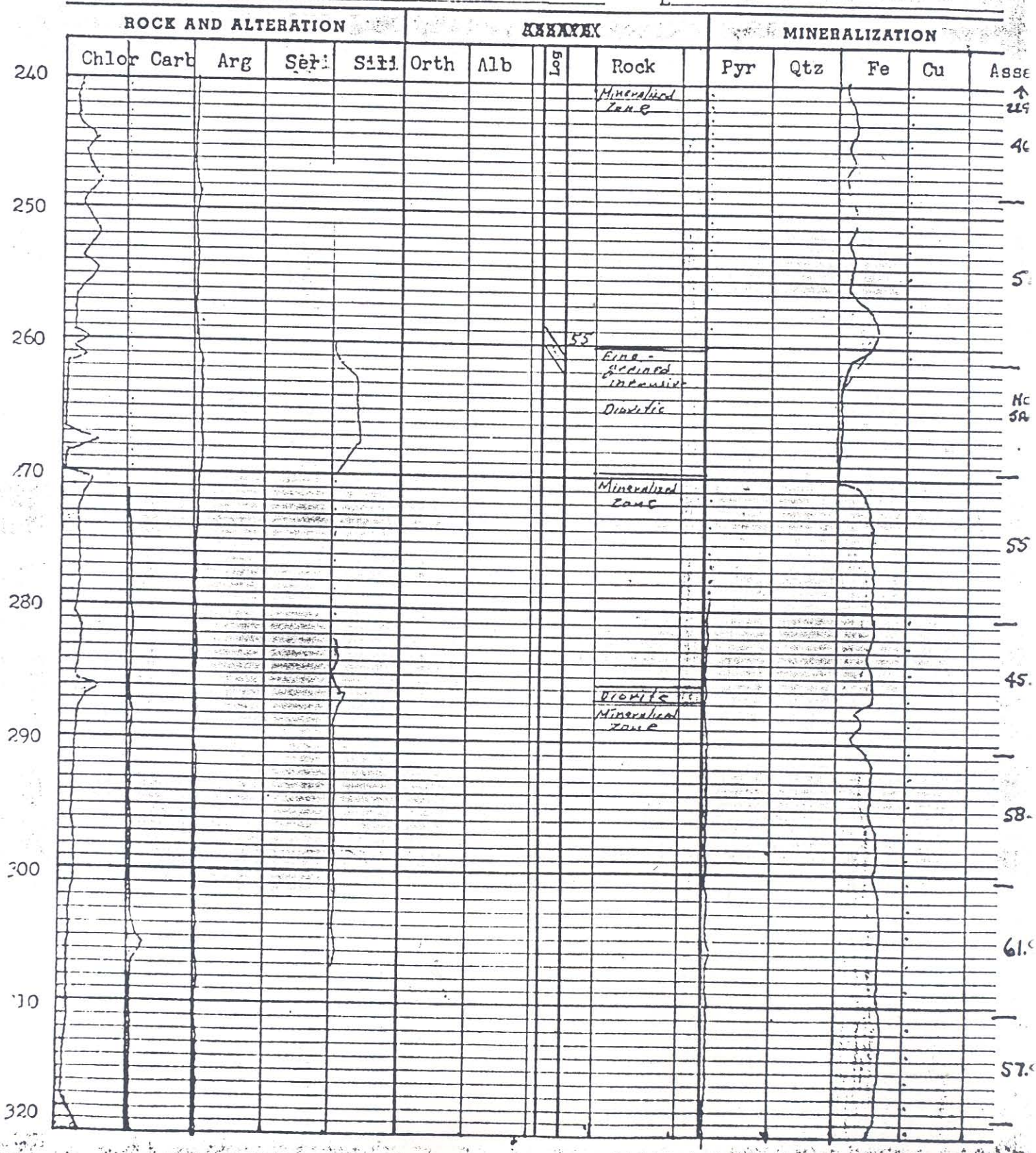
Coordinates of Collar:

Dip

N

Length of Hole

E



6000 0077 (0760) 131

Mine Hottentot Location Hole H-6 Sheet 5 of 5

ROCK AND ALTERATION					ASSAYS					MINERALIZATION				
Chlor	Carb	Arg	Ser	Silt	Orth	Alb	Rock	Pyr	Qtz	Fe	Cu	Assay

320 — Mineralized Zone — 57.43

330 — 52.48

340

48.13

350

Diorite

360 — NO SAMPLE

Mineralized Zone

370

Diorite

Mineralized Zone — 48.46

380

Mineralized Zone in Diorite

390

Fine grain intrusive Diorite

400

410

420

EOM

29.5

WALKER RIVER PAIUTE RESERVATION

6000 0077 (0760) 132

Walker Martel Mining Company

Hottentot H-6-A

Bottom: 287'

Rotary: 0 - 287'

0.0 - 5.0	No sample
5.0 - 20.0	Quartz-latite tuff, with 5-10% quartz, 20% orthoclase, ? % plagioclase, 5-10% biotite, 20-35% glass; light colored.
20.0 - 25.0	Darker color chips mixed with quartz-latite tuff, probably contamination from above.
25.0 - 280.0	Quartz-latite tuff, same as 0.0 - 20.0.
280.0 - 284.0	Chloritized quartz-latite tuff, small amount oxidation of biotite and staining of tuff.
284.0 - 286.0	Same as above, except reddish in color, due to oxidation and staining by hematite.

Unconformity

286.0 - 286.5	Quartz-latite tuff with fragments of fine-grained intrusive.
286.5 - 287.0	Quartz-latite tuff with fragments of fine-grained intrusive that could be a volcanic, with some epidote and zoisite; considerable hematite staining.

Bottom: 6/24/65

Hottentot 6-A

Bottom: 509 foot

Rotary 0' - 286'
DDH 286' - 509'

286.0 - 288.2 Basalt, with large phenocrysts of hornblende; slightly chloritized and argillized; with a few scattered phenocrysts of plagioclase showing broad twinning; (andesine?)

288.2 - 288.8 Andesite, with numerous phenocrysts of plagioclase and hornblende; sporadic epidote; partially chloritized and argillized.

288.8 - 290.8 Breccia and gouge

290.8 - 293.2 andesite with up to 30% plagiocalse, same as above.

Uniconformity

293.2 - 354.6 Mineralized zone, with magnetite as open-space filling and replacing diorite; occasional actinolite and hornblende; varying amounts chlorite replacing amphiboles, sometimes with relict structures; veinlets of chlorite and calcite at 348.0; sporadic veinlets of gypsum; 35 - 50% magnetite, with 60-65% at 342 - 352', and lesser amounts at short intervals between 332-342'; scattered pyrite, ½ - 1% pyrite at 313-354', pyrite occurring as grains, euhedral crtstals, minute pods, and veinlets, in places partially oxidized; sporadic chalcopyrite at 313 - 354'; occasional veinlets chalcedony and limonite; at 332-342' pyrite appears to be replacing magnetite as a thin collodial coating; slightly to moderately argillized and chloritized.

354.6 - 371.8 Shear zone at 352.5 - 354.6, completely argillized and chloritized, brecciated and gouge; at 354.6 - 371.8 brecciated with some gouge, and occasional pod of magnetite and hematite, up to 15% at 361.0-361.5 and 45-55% at 363-365'; heavy gouge at 370.5-371.8.

371.8 - 387.5 Mineralized zone, highly brecciated at 371.8-378.0; 20-40% magnetite and hematite, associated with relict palgioclase and actinolite, highly argillized and chloritized; at 383 diorite brecciated with magnetite replacing the diorite; numerous crystals of magnetite at 384.5; considerable leaching and oxidation; random veinlets gypsum; ½ - 1% copper as malachite and azurite.

387.5 - 396.5 Brecciated diorite, highly chloritized and argillized, with veinlets of limonite at 387.5 - 388.0, dipping 85°.

396.5 - 406.8 Mineralized zone in diorite, with up to 45% magnetite as grains and pods; relict plagioclase and actinolite; considerable leaching; argillized and chloritized; veinlets limonite at 398.0 - 399.2 and 405.5 - 406.8.

Hottentot 6-A

406.8 - 411.5 Mineralized diorite, same as above except only a small amount iron mineralization.

411.8 - 424.5 Mineralized zone, with 25-35% magnetite and hematite; heavy gouge at 421.0-423.0, limonitic.

424.5 - 436.4 Brecciated dioritic, highly chloritized and moderately argillized; greenish clya minerals.

436.4 - 451.0 Diorite, light colored, partially silicified, some chloritization and argillization; scattered pods and crystals of magnetite at 440-443, euhedral crystals magnetite in actinolite and chlorite; gouge at 450.4-451.0 and 445.7-448.6; 5-20% magnetite at 446.0-450.4'; small amount limonite along fractures at 443-446; small amount pyrite on fracture at 447.

451.0 - 482.4 Brecciated diorite, completely argillized and chloritized, with moderate amount calcite as replacements and as veinlets; medium to dark green.

482.4 - 509.4 Diorite, light colored, slightly bleached; 6" gouge at 482.4-483.2', and brecciated at 504.5-508.5; highly argillized at 504.5-508.5, with limonite stains along fractures; small amount albitization.

Bottom

6000 0077 (0760)

DRILL LOG

COMPANY NAME Martel Mining Company

MINE Hottentot

COORDINATES OF COLLAR:

SHEET 1 OF 1

1" = 100' SCALE

LOCATION 12 miles east of Schurz, Nevada

N

BY EFL

AU. G

HOLE NO. H 6A

E

DATE 6/23/65

BEARING

LENGTH OF HOLE 509.4 feet

CASING No

DIP Vertical

HOLE SIZE Rotary-4½" to 286 feet; NX 286-509.4'

Boyles Bros. Drilling Company

ACCOMPANIED BY NARRATIVE LOG YES X NO

ALTERATION	LOG AND ROCK TYPE	MINERALIZATION
	0 Alluvium	
	Quartz latite tuff	
	100	
	200	
	Chloritized Quartz latite tuff	
Rotary bottom at 286.5 feet See core log		

135

6000 0077 (0760)

..L LOG

COMPANY NAME Walker-Mar _ Mining Company

MINE Hottentot

COORDINATES OF COLLAR:

SHEET 1 OF 2

SCALE 1"=10'

LOCATION 12 miles east of Schurz

N

BY EFL & JV

AU. &

HOLE NO. E-6-A

E

DATE 9/65

BEARING

LENGTH OF HOLE 509 feet

CASING

DIP Vertical

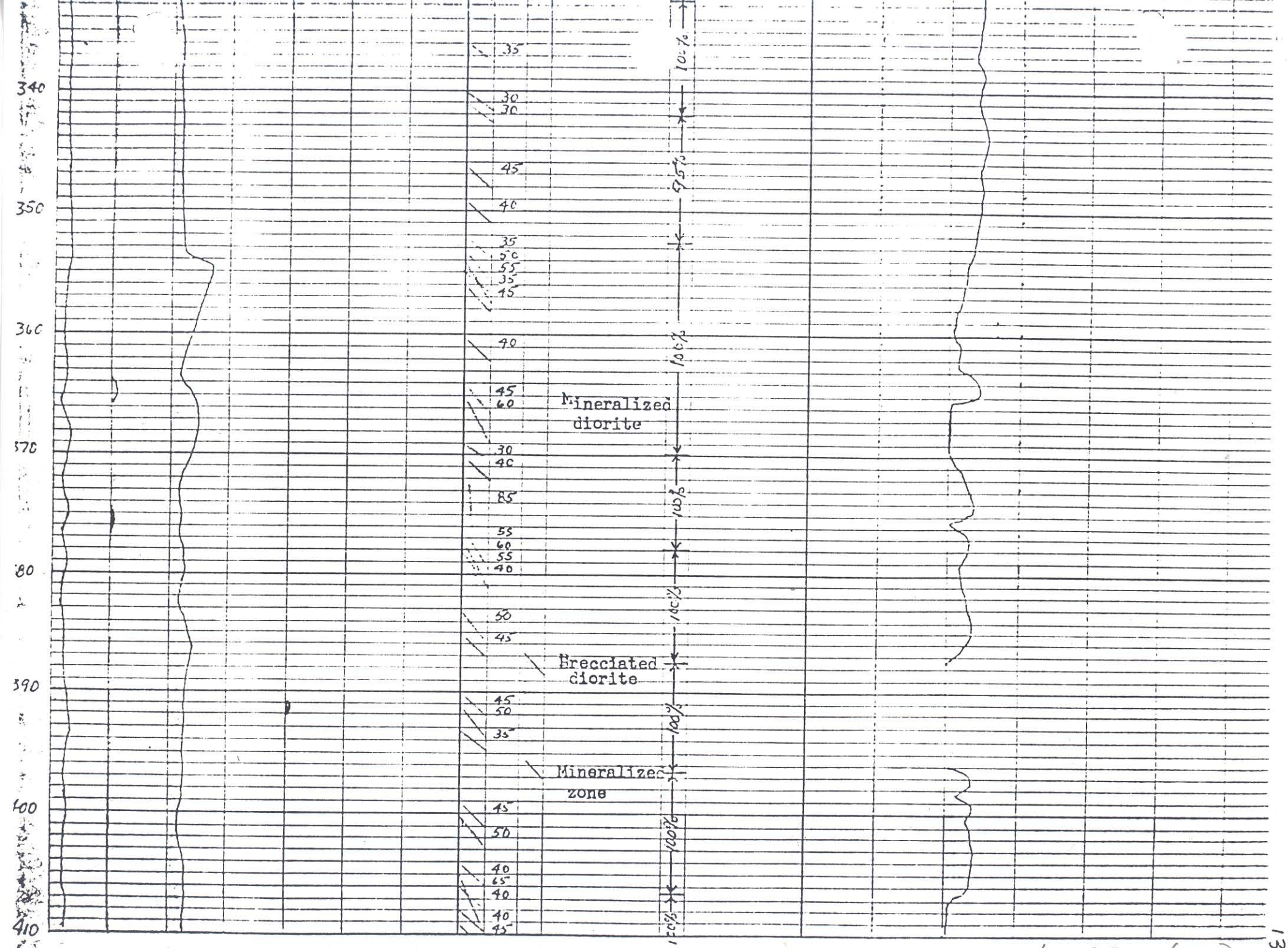
HOLE SIZE 4" to 286 feet
NX to 509 feet

by Boyles Bros.

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	% CORE	REMARKS	Qtz	Py	Fe'	Cu			
280																			
								60											
										Basalt									
										Andesite									
290											100%								
								65											
										Unconformity									
										Mineralized zone									
300											100%								
								20											
								45											
310											100%								
								11											
								65											
								40											
								65			100%								
320																			
								35											
								30											
								20			100%								
330																			
								32											

136



6000 0077 (0760)

DRILL 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-6-A

E

DATE

BEARING

LENGTH OF HOLE 509'

CASING

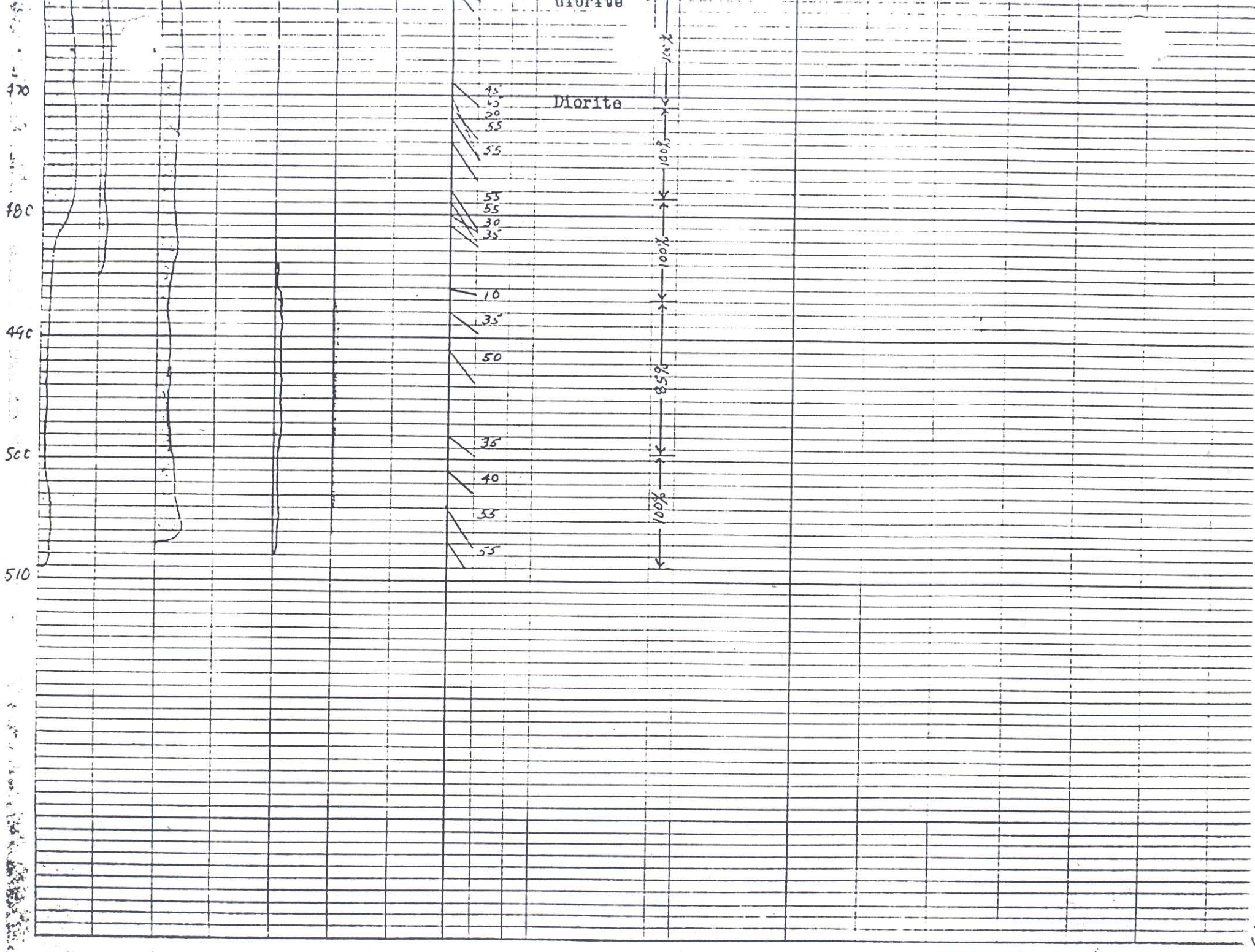
DIP Vertical

HOLE SIZE

ACCOMPANIED BY NARRATIVE LOG YES ☐ N

Depth	ALTERATION: Chlor	Carb	Arg	Ser	Sili	Alb	Ortho	LOG	DIP	LOG	ROCK DESCRIPTION	% CORE	REMARKS	MINERALIZATION: Qtz	Py	Fe	Cu
410									85 65		Mineralized diorite	100%					
420											Diorite	100%					
430									55			75%					
440									55 55			90%					
450									45 60 20 50			100%					
460									50 30			100%					
									45 45 50		Chloritized diorite						

138


Diorite
Diorite
470
480
490
500
510
45
45
20
55
55
55
55
30
35
10
35
50
36
40
33
55
100%
100%
100%
85%
100%

Southeast (was designated #3) Hottentot Drill Core Assays.

Interval			Thickness	Assay % Iron	Copper
DH 6					
178.5	187.5		9.0	60.5	
187.5	197.5		10.0	61.34	
197.5	203.0		5.5	59.33	0.19
203.0	209.5		6.5	43.04	
209.5	214.3	(19)	4.8	45.78	
214.3	229.8		15.5	54.23	
229.8	248.2		18.4	46.73	
248.2	261.0	17 samples	12.8	51.32	
261.0	269.5		8.5	No sample	
269.5	280.5		11.0	55.81	
280.5	290.5		10.0	45.22	0.13
290.5	300.5		10.0	58.26	0.15
300.5	310.5		10.0	61.90	0.21
310.5	318.5		8.0	57.93	0.13
318.5	324.2		5.7	57.43	0.17
324.2	337.1		12.9	57.48	0.15
337.1	354.0		17.9	48.13	0.18
354.0	362.2		8.2	No sample	
362.2	384.0		21.8	48.36	
DH 6A					
293.5	313.5	(8)	20.0	59.6	0.107
313.5	333.5		20.0	57.2	0.137
333.5	352.5	6 samp	19.0	56.0	0.088
352.5	355.0		2.5	59.6	0.080
355.0	361.6		6.6	No sample	
361.6	387.0		25.4	57.2	0.176
387.0	396.7		9.7	No sample	
396.7	423.2		26.5	52.0	0.132

Interval 361.6 to 387.0 includes 7.6 feet of completely unmineralized rock.

5 rotary no core as get Oct 1967

6000 0077 (0760) 141

BRANCH LABORATORY: 1080 MARTIN AVENUE • SANTA CLARA • CHERRY 0-5202
BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8050

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

Lab. No. 524-12

Date Jan. 13, 1965

Submitted by Mr. Robert L. Redmond
1080 Pine Ridge Rd.
Reno, Nevada 89502

Sample Mark Ore - Composite 728-36 sampl

Depth 229^{8} - 337^{1}

QUALITATIVE SPECTROGRAPHIC ANALYSIS
Metals Found and Estimated Percentage Range

107^{3} feet

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

DH6

ma

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

6000 0077 (0760) 142

BRANCH LABORATORY: 1086 MARTIN AVENUE • SANTA CLARA • CHERRY 8-5262
BRANCH OFFICE: 34 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-6650

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

Feb. 8, 1965

Deposited by: Robert L. Redmond
1080 Pine Ridge Rd.
Reno, Nevada 89502

Sample of Ore

Labty. No.	Mark			Percentages
		HOLE DH 6		
524-12	Composite 728-36	Total Sulfur, S	-	3.60
	229.8 - 337.1 = 107.3 feet.	Sulfate Sulfur, S	-	0.35
		Sulfide Sulfur, S	-	3.25

3.25% S x 2.742 (Factor = FeS) = 8.91% Sulphide
3.25% S x 4.963 (Factor = Cu_2S) = 16.13% Sulphide.

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

CA105 4

United States Steel Corporation

P. O. BOX 510

Provo, Utah 84601

USS

RAW MATERIALS

May 7, 1965

Mr. R. L. Redmond, Manager
Martel Mining Company
1080 Pine Ridge Drive
Reno, Nevada

Dear Mr. Redmond:

Re: Hottentot No. 3 Project
Drill Hole 6

Attached are our laboratory analyses of your subject samples with your identifications 722R - 738R. We will return by truck shipment the remainder of the samples within the next few days.

The analyses for iron and silica on the samples are shown under the heading "Crude Analysis." A more detailed analysis was not run on the samples inasmuch as the intervals represented are quite small and because of the apparent high content of pyrite and pyrrhotite. Because of the variability of the sample, the testing was extended to magnetic concentration tests at fine grinding to determine what quality of material might be provided by that technique. The analyses indicate that a high grade iron product could be made at normal grinding with reasonable ratios of concentration. However, the material is quite variable and considerable work would be required to determine whether such a major investment for beneficiating and agglomerating facilities would be warranted.

You will note that your sample 724R contains 58.8% iron and yielded only 2.8% weight recovery. This one sample was almost completely oxidized to hematite and therefore provided almost no magnetic concentrate.

The sulfur content of the magnetic concentrate is also quite variable ranging from 0.014% to 0.306% sulfur. The sulfur content of the magnetic concentrate reflects largely the pyrrhotite content of the ore which is magnetic enough to report with the magnetite in magnetic concentration.

Although your ore does not appear to represent usable direct shipping open hearth ore, we appreciate your submitting your samples and your information for our consideration.

Yours very truly,

S G Sargis / Kwmolt

S. G. SARGIS
Chief Geologist
Western District

SGS/KWM:ga

Attachment

HOTTENTOT #3 PF[illegible] - DH #6
Robert L. [illegible]mond

6000 0077 (0760)

Sample No.	Interval From	Interval To	Interval Feet	Crude Analysis Fe	Crude Analysis SiO_2	Concentrate Analysis at a Nominal 200 Mesh Grind Fe	P	S	SiO_2	Al_2O_3	CaO	MgO	Magnetic Weight Recovery Davis Tube
722R	178.5	187.5	9.0	60.5	8.76	68.3	.030	.036	1.57	.20	.16	.53	34.0
723R	187.5	197.5	10.0	61.7	6.42	68.4	.037	.014	1.50	.24	.16	.54	43.0
724R	197.5	203.0	5.5	58.8	10.58	67.6	--	--	--	--	--	--	2.8
725R	203.0	209.5	6.5	48.7	19.98	68.5	.029	.051	1.79	.28	.34	.36	40.9
726R	209.5	214.3	4.8	46.3	18.22	68.5	.022	.025	1.85	.20	.28	.57	47.0
727R	214.3	229.8	15.5	54.2	12.80	68.3	.044	.039	2.26	.44	.42	.50	52.3
728R	229.8	248.2	18.4	54.6	10.94	67.7	.045	.201	2.41	.63	.56	.56	53.9
729R	248.2	261.0	12.8	53.5	12.60	68.3	.043	.124	1.74	.20	.32	.45	58.9
----	261.0	269.5	8.5	No Sample Submitted		--	--	--	--	--	--	--	--
730R	269.5	280.5	11.0	56.8	8.46	69.3	.038	.054	1.29	.20	.32	.35	63.0
----	280.5	283.0	2.5	No Sample Submitted		--	--	--	--	--	--	--	--
731R	283.0	287.0	4.0	50.0	20.98	67.0	.042	.055	4.21	.32	.40	.45	57.1
----	287.0	291.8	4.8	No Sample Submitted		--	--	--	--	--	--	--	--
732R	291.8	300.5	8.7	56.4	10.26	69.2	.059	.072	2.86	.25	.46	.53	69.9
733R	300.5	310.5	10.0	61.9	5.44	69.7	.049	.199	1.25	.34	.20	.43	77.6
734R	310.5	318.5	8.0	58.6	6.90	70.1	.047	.103	.95	.18	.24	.40	70.3
735R	318.5	324.2	5.7	51.7	12.70	69.0	.029	.306	1.69	.28	.50	.61	59.3
736R	324.2	337.1	12.9	57.8	8.34	70.2	.040	.126	1.16	.18	.28	.63	69.8
737R	337.1	354.0	17.9	52.0	12.48	70.4	.039	.062	.98	.22	.26	.61	59.8
----	354.0	362.2	8.2	No Sample Submitted		--	--	--	--	--	--	--	--
738R	362.2	384.0	21.8	48.5	14.90	70.2	.033	.124	.97	.40	.36	.31	52.2

6000 0077 (0760)

United States Steel Corporation

P. O. BOX 810
Provo, Utah 84601

RAW MATERIALS

May 7, 1965

Mr. R. L. Redmond, Manager
Martel Mining Company
1080 Pine Ridge Drive
Reno, Nevada

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Re: Hottentot No. 3 Project
Drill Hole 6

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You will note that your sample 724R contains 58.8% iron and yielded only 2.8% weight recovery. This one sample was almost completely oxidized to hematite and therefore provided almost no magnetic concentrate.

The sulfur content of the magnetic concentrate is also quite variable ranging from 0.014% to 0.306% sulfur. The sulfur content of the magnetic concentrate reflects largely the pyrrhotite content of the ore which is magnetic enough to report with the magnetite in magnetic concentration.

6000 0077 (076)

Although your ore does not appear to represent usable direct shipping open hearth ore, we appreciate your submitting your samples and your information for our consideration.

Yours very truly,

S. G. Sargis / Kwm

S. G. SARGIS
Chief Geologist
Western District

SGS/KWM:ga

Attachment

6000 0077 (0760)

HOTTENTOT #3 PROJECT - DH #6
Robert Edmond

Sample No.	Interval From	Interval To	Interval Feet	Crude Analysis Fe	Crude Analysis SiO_2	Concentrate Analysis at a Nominal 200 Mesh Grind Fe	P	S	SiO_2	Al_2O_3	CaO	MgO	Magnetic Weight Recovery Davis Tube
722R	178.5	187.5	9.0	60.5	8.76	68.3	.030	.036	1.57	.20	.16	.53	34.0
723R	187.5	197.5	10.0	61.7	6.42	68.4	.037	.014	1.50	.24	.16	.54	43.0
724R	197.5	203.0	5.5	58.8	10.58	67.6	--	--	--	--	--	--	2.8
725R	203.0	209.5	6.5	48.7	19.98	68.5	.029	.051	1.79	.28	.34	.36	40.9
726R	209.5	214.3	4.8	46.3	18.22	68.5	.022	.025	1.85	.20	.28	.57	47.0
727R	214.3	229.8	15.5	54.2	12.80	68.3	.044	.039	2.26	.44	.42	.50	52.3
728R	229.8	248.2	18.4	54.6	10.94	67.7	.045	.201	2.41	.63	.56	.56	53.9
729R	248.2	261.0	12.8	53.5	12.60	68.3	.043	.124	1.74	.20	.32	.45	58.9
----	261.0	269.5	8.5	No Sample Submitted			--	--	--	--	--	--	--
730R	269.5	280.5	11.0	56.8	8.46	69.3	.038	.054	1.29	.20	.32	.35	63.0
----	280.5	283.0	2.5	No Sample Submitted			--	--	--	--	--	--	--
731R	283.0	287.0	4.0	50.0	20.98	67.0	.042	.055	4.21	.32	.40	.45	57.1
----	287.0	291.8	4.8	No Sample Submitted			--	--	--	--	--	--	--
732R	291.8	300.5	8.7	56.4	10.26	69.2	.059	.072	2.86	.25	.46	.53	69.9
733R	300.5	310.5	10.0	61.9	5.44	69.7	.049	.199	1.25	.34	.20	.43	77.6
734R	310.5	318.5	8.0	58.6	6.90	70.1	.047	.103	.95	.18	.24	.40	70.3
735R	318.5	324.2	5.7	51.7	12.70	69.0	.029	.306	1.69	.28	.50	.61	59.3
736R	324.2	337.1	12.9	57.8	8.34	70.2	.040	.126	1.16	.18	.28	.63	69.8
737R	337.1	354.0	17.9	52.0	12.48	70.4	.039	.062	.98	.22	.26	.61	59.8
----	354.0	362.2	8.2	No Sample Submitted			--	--	--	--	--	--	--
738R	362.2	384.0	21.8	48.5	14.90	70.2	.033	.124	.97	.40	.36	.31	52.2

Hottentot. H.G.B
6000 0077 (0760)
(50)

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Co.

Bottom: 300.0 feet

Rotary: 0.0 - 180.0'
Nx: 180.0 - 300'

Vertical

0.0 - 35.0	Crystal tuff, samples contaminated, dark brown to grey.
35.0 - 135.0	Crystal tuff, with sanidine, 5-15% biotite, orthoclase, quartz, and glass shards; biotite euhedral; slightly argillized.
135.0 - 170.0	Same as above, pinkish in color.
170.0 - 180.0	Same as above, whitish in color; slightly argillized; one fragment of granitic material, probably exotic to drill hole.
180.0 - 190.0	Same as above, stained pinkish to brown in color.
190.0 - 231.5	Crystal tuff, with 20-40% crystals of sanidine, 3-10% biotite, plagioclase, glass shards; biotite slightly chloritized; 10-30% lithic fragments at 226' up to 1" in size; clayey at 190-193'; completely argillized to montmorillionite(?) at 226-231 feet; fault dipping 55° at 232', fault zone continuing to 248'.
231.5 - 300.0	Quartz diorite or quartz monzonite, fine grained; highly brecciated at 232-248'; highly argillized and silicified, with some albitization; small amounts epidote, scattered casts of pyrite(?), and small amounts gypsum along fractures at 232-253'. 6" clay along faulting dipping 70° at 257'; 5-15% hornblende at 253-263'. Brecciated at 259-294'; random minute veinlets calcite and quartz at 260-265'; 10-20% hornblende at 271-279'; with up to 3% limonite casts at 274'; darker color at 285'; gypsum along fractures at 286-300'.

Bottom: 300.0 feet May 24, 1968

Hottentot H-6C

60000077 (0760) (51)

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Rotary: 0.0 - 190.0 feet

Bottom: 190 feet

Vertical

0.0 - 190.0 Crystal tuff, quartz-latitic in composition, whitish in color, with 20-30% crystals of sanidine, orthoclase, plagioclase, biotite, and glass shards.

Pinkish in color with 5-10% crystals at 20.0-90.0'.

White in colr with 20-30% crystals at 90.0 - 190.0'.

Small amount of epidote at 178'; a few fragments quartz diorite at 185'.

Bottom: 190 feet

Hole continued from 190 to 401 ft

From 200 to 270 ft 46.4% Fe & 0.1% Cu

From Idaho Mining Corp. Map No. 6D (Sections A-A thru DD)

Hottentot H-6D

6000 0077 (0760) (52)

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Rotary: 0.0 - 168.0'
Nx: 168.0 - 242'

Bottom: 242 feet

0.0 - 15.0 Andesite, fairly fresh, with phenocrysts of hornblende and biotite.

15.0 - 160.0 Crystal tuff, quartz-latitic in composition; grayish in color; with up to 20% crystals of sanidine, plagioclase, quartz, biotite, and glass shard.

160.0 - 168.0 Magnetite and limonite

Bottom of rotary drilling, Nx to 242 feet.

168.0 - 200.0 Mineralized zone in quartz monzonite with 30-60% magnetite and limonite at 168-190', and 3-20% at 190-200'; massive at 168-172', and with considerable clay at 172-181'; small amount gypsum along fractures at 180-181'; highly brecciated at 188-198', dipping at 60-65°; this fault zone continues to 222'; lighter color at 198-200'; some quartz monzonite at 190-200'; moderately to strongly magnetic at 168-195'.

200.0 - 222.0 Quartz monzonite, highly brecciated at 200-222', dipping at 60-65°; moderately argillized.

222.0 - 242.0 Quartz monzonite, fresh, gray in color, with 30% plagioclase, 20% orthoclase, 10% quartz, 3% biotite, 3% hornblende, and 2% augite; slightly silicified; at 223-236' feldspars slightly chalky and with 5-15% hornblende.

Bottom: 242 feet.

(6000 0077 (0760)) 2

Rocky Mountain Geochemical Corporation

P. O. BOX 2217
SALT LAKE CITY, UTAH 84110

Phone 322-2396
Area Code: 801

CERTIFICATE OF ANALYSES

Date: May 31, 1968

Client: Walker Martel Mining Company
c/o Mr. R. L. Redmond
1080 Pineridge Drive
Reno, Nevada 89502

Report on: 4 rock samples

Submitted by: Mr. Redmond

Date Received: May 23, 1968

Analysis: Iron, Gold & Silver

Remarks: Analyses done by atomic absorption.
Job No. 68-12-28 SL & 68-4-10 R

cc: Enc.
File - Reno
File - Salt Lake

LRR:ktg

Sample No.	% Iron	ppm Gold	ppm Silver	
H6D 168-178=10' 419 WM	50.0	ND	1	HEMATITE/LIMONITE Clay Gouge
H6D 178-188=10' 420 WM	40.5	ND	1	"
H6D 188-198= 10' 421 WM	17.5	ND	1	"
H6F 278-289=11' 422 WM	47.0	ND	1	"

By Lawrence R. Reid

Lawrence R. Reid

ND = None Detected 1 ppm = 0.0001% 1 Troy oz./ton = 34.28 ppm % Mo x 1.6683 = %MoS_2

6000 0077 (0760) 2

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By Lawrence R. Reid

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ND = None Detected 1 ppm = 0.0001% 1 Troy oz./ton = 34.28 ppm % Mo x 1.6683 = %MoS_2

Hottentot H-6E

WALKER RIVER PAIUTE RESERVATION 6000 0077 (0760) 53

Walker Martel Mining Company

Rotary: 0.0 - 120.0'

Bottom: 120 feet

Vertical

0.0 - 20.0 Crystal tuff, with 10-30% crystals of sanidine, plagioclase, quartz, biotite, and shards of glass; pinkish in color.

20.0 - 120.0' Crystal tuff, with 5-10% crystals of orthoclase, sanidine, plagioclase, quartz, biotite; highly argillized.

Bottom: 120 feet.

6000 0077 (0760) (54)
Hottentot H-6F

WALKER RIVER PAIUTE RESERVATION

Walker Martel Mining Company

Bottom: 353 feet

Rotary: 0.0 - 278.0'
Nx: 278.0 - 353.0'

Vertical

0.0 - 275.0 Crystal tuff, quartz-latitic in composition; white usually, but pinkish in narrow layers; 25-60% crystals of sanidine, plagioclase, quartz, biotite, and glass shards; slightly argillized.

275.0 - 278.0 Limonite and magnetite in cuttings.

Bottom of rotary, Nx to 353.0'.

278.0 - 289.0 Mineralized zone, with 25-50% iron as magnetite and limonite, moderately magnetic; small amount antogorite(?) on fractures at 282'; minute quartz veinlet at 284'.

289.0 - 353.0 Quartz monzonite, silicified and albitized at 289-322'; highly brecciated at 294-304, with fault dipping at 60-65°, with rounded to angular fragments, chloritized, and with considerable clay; small amount opaline material on fractures at 316'; at 320' consists of orthoclase, 20-40% plagioclase, 2-5% quartz, 3-8% hornblende, traces to 1% biotite, and small amounts epidote; brecciated at 322-338'; 48" breccia in fault zone at 342-346' dipping 60-70°; 5% epidote at 338-350'.

Bottom: 353.0 feet.

278-289' = Iron oxide
289 = Di