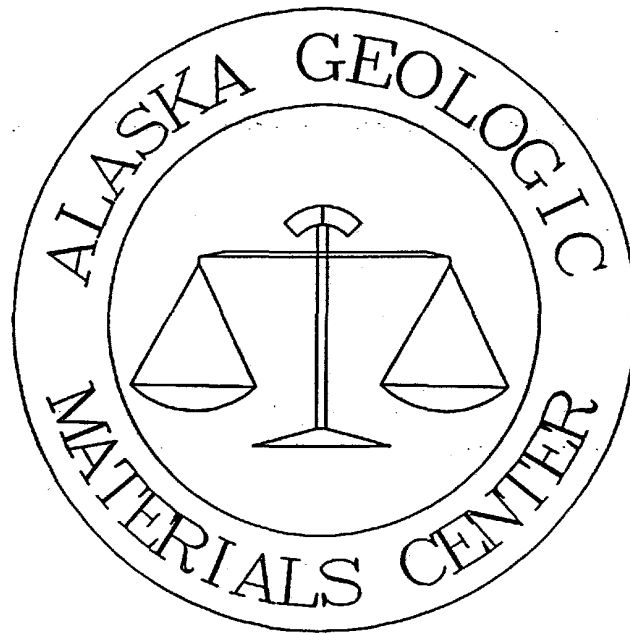


Geologic logs and core assays of 14 nickle, copper, and cobalt exploratory holes from the Mirror Harbor Prospect of Fleming and Chichagof Islands.



Received 25 March, 1991

Total of 38 pages in report

**Alaska Geologic Materials Center Data Report No. 181**

INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. WD M-2 M-1  
 FROM Site 1118036 Mt Mirror Harbor  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION 345°E  
 INCLINATION -45° DEPTH 201.5  
 STARTED 4-16-75 COMPLETED 4-19-75

G-102

SCALE: 1"=20'

Logged by: JTY

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS						
		ALTERATION	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	As	Au	Ni	
			<b>OVERBURDEN</b>	4'											
		mod. FeO in FeT	MED GR. 62% HYD NORITE w/ol.	2 1/2" CORE 1' GRAD	3% T.S. as diss PFTT CPY	10	6	94937	.03						.04
		mod. FeO to 25' STR. Chl ACT → chl 77%	FA GR. 18% GR. 30% ACT RICH NORITE 90% TTX zones of HYD AS Thred w/HYD 22% Low Pleg.	12' 6" 90° N 85° GRD VHS 250° 20' 61"	WK diss PFTT TR CPY	15	5	38	.04						.22
						20	5	39	.03						.25
						25	5	94940	.03						.25
						30	5	41	.04						.25
						35	5	42	.03						.25
						40	5	43	.04						.25
		Fresh Fe	GRAD 1 in HYD Pleg TO HYD NORITE w/ol 9 1/2 TAN PIX FA. GR. Ground HES	1/2 COMP CORE WK 10' FeT	10-15% T.S. blcks 3 diss PFTT: CPY 20:1 WK. TO 5% of CNTS	45	5	44	.24						.42
						50	5	94945	.11						.20
						55	5	46	.07						.10
		THIC Chl	FA GR ACT RICH NORITE w/ol 5% 90° W/S 20% more ACT	10' GRAD RICH 60' 62' 120° 20' ENT	3% T.S. diss PFTT 4% 10% PFTT	60	5	47	.04						.10
		Chl INT	White-10 grey GR. Pleg DILE No HMT CNT	INTRUSIVE w/ol of NORITE 30% 40% 60% PFTT	WK PFTT HES w/ NORITE MCL (DTR) 21% T.S. HES FOR AN. 60%	65	5	48	.11						.12
		Pleg shaded	FA-MED GR. Pleg rich NORITE w/ol 20% PFTT DMSYR LUSTR.	WK 40° Intersection of mafics & 90° VHS.	FA Diss & Spotty blcks T.S. 3% PFTT: CPY 10:1	75	5	94950	.05						.10
						80	5	51	.05						.10
						85	5	52	.05						.10
		Talk out FeT mod chl	85-88 70% Pleg Dike as of 62(5) 90° NORITE	88' 100° 68' SWP 5' CNT of 90°	90% WK-TR NORITE & 3% T.S. 3L	90	5	53	.03						.12
			85-128 FA-MED GR. NORITE as ab 70 w/ 1-2' zones of ACT RICH NORITE. Lack of olivine & HyP. Sunkey Tex due to conc of sulfides	Definite 20-40° STR Alignment of zones & laterid sulfides	10-20% T.S. as blcks and stringers 20-40° TFTT: CPY 20:1 w/ local conc of CPY to 1-2%.	95	5	54	.04						.22
						100	5	94955	.10						.50
						105	5	56	.05						.12
						110	5	57	.20						.45
						115	5	58	.24						.60
						120	5	59	.14						.30
						125	5	94960	.20						.50
						130	5	61	.15						.52
		STR Chl THIC OR STKS WK FT	MED GR. HYD RICH NORITE w/ol OF HYD Pleg XH ST.	mod 40' STKS	spotty blcks of CPY PFTT ~ 3% T.S.	135	5	62	.08						.20
						140	25	4.7	.10						.30
						145	80%	4.0	.08						.30
						150	100	5	94965	.05					.11
						155	5	66	.05						.10
						160	5	67	.04						.10
						165	5	68	.09						.15
						170	5	69	.05						.10

INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. WD 11-1

FROM Sta 17880 S.E. 1-1 Micror Harbor

ELEVATION \_\_\_\_\_

COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E

DIRECTION 54.5° E

INCLINATION -4.5°

DEPTH 201.5

SCALE: 1" = 20'

STARTED \_\_\_\_\_

COMPLETED \_\_\_\_\_

C 102

SECTION	COLUMN	GEOLOGY			SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS						
		LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	Ag	Au		
C 102	102	CHL on FEL TRK on FEL	180-182 MID Gr. NORITK MIP + PLAG + No. Act. TRY Highly Act.	200-201 DCA & Gnd.	Spotty sections of blebs of PIT & CPT T.S. 3% diamond & GND Zircon	180		5	94971	.05				.06
			182-186 Act Rich zone INTR by 1 1/2' diorite dike	186 Dike at 60'		185		4.5	72	.08				.14
			186-192 Zone of Mid-Gr. 90% MIP & PM 198-200 Pkg FID MIP as above	192 STR Co. FELT		190		5	73	.09				.13
			192-201 MIP as above	192 STR Co. FELT		195		5	74	.04				.05
			201-201.5 MIP as above	201 CMT LAST EOM 777		201.5		6.5	94975	.14		6.5	.14	.24



INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. WD 11-2  
 FROM STA 1900 SW L-2 Mine North  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION SSE  
 INCLINATION -45° DEPTH \_\_\_\_\_  
 STARTED \_\_\_\_\_ COMPLETED \_\_\_\_\_

G-102

SCALE: 1" = 20'

SECTION	COLUMN	GEOLOGY			SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS				
		LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	As	Au
		SAME AS 175 WITH THIS 901. NORITE 179.5-181.5 C.R. AT BOTTOM OF HOLE OF May 9 1912. 181.5-186 ANDRUSITE DICE WITH MIN NORITE 186-190 NORITE AS AT 175 WITH Cemented FILL ZONE 190-194.5 Plus rich NORITE AND MELLS OF WAMP No Cl. 194.5-195.8 ANDRUSITE DICE. 195.8' KON.	Abrupt irr CUT 186 2MT 20' 0.2 FILL CUT SILS 8 45 RE COARSENED	32% T.S. Cr. blebs CRY INTER 6 rms 179.5 1% CRY as random with 2 3% PPT 166 2 ANDRUSITE DICE BARREN 10% - MASSIVE PPT CRY 1% as 192 2% T.S. mds. blebs PPT	180	100%	5	94933	.36			1.0
					185		5	34	.06			.6
					190		5	2925	.31			1.0
					193.8		5.8	36	.04			.6
							END OF HOLE TT					



INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. WD-MH-3 (MIRROR HARDEN)

FROM 175-350

ELEVATION \_\_\_\_\_

COORDINATES \_\_\_\_\_ N \_\_\_\_\_

DIRECTION \_\_\_\_\_

INCLINATION Vertical

DEPTH \_\_\_\_\_

STARTED 9/11/76

COMPLETED 9/17/76

G-102

SCALE: 1" = 20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS					
		METAMORPHISM	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	Ag	Co	Ni
			<b>FRAG ANDESITE DIKE</b>	<b>INT CNT @ 36°</b>	<b>NO VISIBLE SULFIDES</b>	180	5		12462	.02			.06	
			<b>FRAG GRAY MED GR NORITE</b>	<b>1-2' BANDS of PLAG with setting @ 45°</b>	<b>INDIVIDUAL BLENDS OF PYRR w/ WK DISC RIMMED BY CPT</b>	185	4.7		63	.05			.12	
			<b>PLAG - 75% Bv. 10% ALT - 10% HIP 15% MOD PHOX</b>	<b>FRAG ANDESITE DIKES 1'-1' @ 35°</b>	<b>T.S. 1-2% PYRR: CPT 30:1</b>	190	5		64	.06			.18	
			<b>123 HIP PLAG</b>	<b>WK vertical crush</b>		195	5		65	.02			.08	
			<b>201 FRAG R.C.</b>	<b>201 INT INTO NORITE @ 36° PLAG RD</b>	<b>NO VISIBLE SULFIDES</b>	200	5		66	.05			.16	
			<b>204 ACT (M) PLAG SASS</b>	<b>NORITE AS ATIBO w/ HIP @ 15% PHOX 3/2' ALT @ 30°</b>	<b>NO VISIBLE SULFIDES</b>	205	5		67	.01			.03	
			<b>216 FRAG ROCK</b>	<b>NORITE AS ATIBO w/ HIP @ 15% PHOX 3/2' ALT @ 30°</b>	<b>NO VISIBLE SULFIDES</b>	210	5		68	.02			.10	
			<b>216 FRAG ROCK</b>	<b>FRAG ANDESITE DIKE</b>	<b>NO VISIBLE SULFIDES</b>	215	4.7		69	TR			.03	
			<b>216 FRAG ROCK</b>	<b>OLIVE GRAY MED GR. ACT RICH NORITE</b>	<b>TYPE 2 CPT AS C BLEBS 1-5 MM</b>	220	5		12470	.03			.02	.11
			<b>220 FRAG ROCK</b>	<b>ALT ALTERED ROCK PLAG - 50% (B) BUT ACT - 35% HIP - 15% w/ PHOX</b>	<b>CPT RIMMING PYRR &amp; AS INDIV GRAS. T.S. 5% PHOX w/ 1-2' sections 5-10% decreasing to 2-3% OVER ALL T.S. 3-5% CPT: PYRR 1:10</b>	225	5		71	.09			.02	.19
			<b>230 FRAG ROCK</b>	<b>230 5' GRAD CNG.</b>	<b>T.S. 5% PHOX w/ 1-2' sections 5-10% decreasing to 2-3% OVER ALL T.S. 3-5% CPT: PYRR 1:10</b>	230	5		72	.06	.55		.02	.16
			<b>230 FRAG ROCK</b>	<b>230 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	235	5		73	.05	.11	.14	TR	.11
			<b>235 FRAG ROCK</b>	<b>235 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	240	4.8		74	.04	.05		.02	.14
			<b>240 FRAG ROCK</b>	<b>240 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	245	5		75	.04		TR	.08	
			<b>255 FRAG ROCK</b>	<b>255 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	250	5		76	.05		.02	.11	
			<b>255 FRAG ROCK</b>	<b>255 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	255	5		77	.07	.11	.14	.02	.16
			<b>260 FRAG ROCK</b>	<b>260 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	260	5		78	.02		TR	.06	
			<b>265 FRAG ROCK</b>	<b>265 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	265	4.6		79	.02		TR	.05	
			<b>270 FRAG ROCK</b>	<b>270 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	270	5		12480	.08		TR	.12	
			<b>275 FRAG ROCK</b>	<b>275 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	275	5		81	.02		TR	.05	
			<b>280 FRAG ROCK</b>	<b>280 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	280	5		82	.02			.02	
			<b>285 FRAG ROCK</b>	<b>285 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	285	5		83					
			<b>290 FRAG ROCK</b>	<b>290 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	290	5		84	.02			.04	
			<b>295 FRAG ROCK</b>	<b>295 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	295	5		85	.02			.01	
			<b>300 FRAG ROCK</b>	<b>300 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	300	1.6		86	.01			TR	
			<b>305 FRAG ROCK</b>	<b>305 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	305	5		87	TR			TR	
			<b>310 FRAG ROCK</b>	<b>310 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	310	5		88	TR			TR	
			<b>315 FRAG ROCK</b>	<b>315 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	315	5		89	.02			.01	
			<b>320 FRAG ROCK</b>	<b>320 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	320	5		12490	TR			TR	
			<b>325 FRAG ROCK</b>	<b>325 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	325	5		91	.02			.06	
			<b>330 FRAG ROCK</b>	<b>330 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	330	4.5		92	.04			.10	
			<b>335 FRAG ROCK</b>	<b>335 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	335			93	TR			TR	
			<b>340 FRAG ROCK</b>	<b>340 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	340			94	TR			TR	
			<b>345 FRAG ROCK</b>	<b>345 5' GRAD CNG.</b>	<b>T.S. decreasing as fn blebs 2-3% PHOX: CPT 10:1 1' section @ 255 5% PHOX, T.S.</b>	345			95	TR			TR	







INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. WA-MH-4 (MIRROR HARBOR)  
 FROM 175'-350'  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION \_\_\_\_\_  
 INCLINATION \_\_\_\_\_ DEPTH \_\_\_\_\_  
 STARTED \_\_\_\_\_ COMPLETED \_\_\_\_\_

G-102

SCALE: 1"=20'

SECTION	COLUMN	GEOLOGY IEX CORE				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS					
		ALTERATION	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	Ag	Co	Ni
		175' - 180' SERR SLKS @ 45, 30°	HBITE GRN SZR. 1-2.5"	175' - 180' CORE BKU + WASHED; SLKS @ 10', PROB. FLT		180	2.3		16710					
		180' - 185' SERR SLKS @ 25, 30°		185' - 190' CORE BKU + WASHED; SLKS @ 20, 30, 50', PROB. FLT @ 20'		185	5		11					
		185' - 190' HBITE	192' BRN B10 IN HBITE			190	3.4		12					
		190' - 195' HBITE MOB. ALT. - FIBR. AMPH.	195' BRN B10 IN HBITE 4.1%	COMP. CORE		195	4.5		13					
		195' - 200' SERR SLKS @ 20°	204' 2" QTZ-FELD Dk @ 40°		TR. Pyr V. RARE Cpy	200	4.6		14	.02		TR	.06	
		200' - 205' SERR SLKS @ 20°				205	5		15					
		205' - 210' SERR SLKS @ 15, 40, 60°	223' Fu Gr. And. Dk; 3"	223' - 225' SHY CUTS @ 80°		210	5		16					
		210' - 215' SERR SLKS @ 15, 40, 60°	233-242' 1 NPY → 4-6%	226-228' MOB. BKU CORE; SLKS @ 40, 10, 60°		215	5		17					
		215' - 220' SERR SLKS @ 25°	242-244' 1 NPY → 4-6%	233-242' MOB. BKU CORE; SLKS @ 40, 10, 60°		220	5		18					
		220' - 225' SERR SLKS @ 25°	244' 8" QTZ-FELD BRN Dk	244' CUTS @ 25, 60°		225	5		19	.02		TR	.06	
		225' - 230' SERR SLKS @ 25°	244' 2" ZK BRN B10			230	5		20					
		230' - 235' SERR SLKS @ 25°	244' 2" ZK BRN B10			235	5		21					
		235' - 240' SERR SLKS @ 25°	244' 2" ZK BRN B10			240	5		22					
		240' - 245' SERR SLKS @ 25°	244' 2" ZK BRN B10			245	5		23					
		245' - 250' SERR SLKS @ 25°	244' 2" ZK BRN B10			250	5		24	.02		TR	.04	
		250' - 255' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			255	5		25					
		255' - 260' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			260	4.3		26					
		260' - 265' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			265	5		27					
		265' - 270' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			270	3.5		28					
		270' - 275' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10		TR. Pyr, Cpy	275	5		29	.02		TR	.03	
		275' - 280' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			280	4.4		30					
		280' - 285' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			285	3.0		31					
		285' - 290' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			290	4.5		32					
		290' - 295' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			295	2.8		33					
		295' - 300' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			300	2.6		34	.02		TR	.06	
		300' - 305' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			305	3.8		35					
		305' - 310' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			310	3.1		36					
		310' - 315' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			315	5		37					
		315' - 320' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			320	5		38					
		320' - 325' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			325	5		39	.03		TR	.05	
		325' - 330' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			330	5		40					
		330' - 335' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			335	5		41					
		335' - 340' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			340	4.5		42					
		340' - 345' HBITE HILY ALT - FIBR. AMPH.	244' 2" ZK BRN B10			345	2.5		43					

# INSPIRATION DEVELOPMENT COMPANY

## GEOLOGICAL DEPARTMENT

### DIAMOND DRILL RECORD

G-102

SCALE: 1" = 20'

HOLE NO. WD-MH-4 (MIRAGE HARBOUR)  
 FROM 350'-383'  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 DIRECTION \_\_\_\_\_  
 INCLINATION \_\_\_\_\_ DEPTH \_\_\_\_\_  
 STARTED \_\_\_\_\_ COMPLETED \_\_\_\_\_

SECTION	COLUMN	GEOLOGY <i>TEX Core</i> <span style="float:right">SJS</span>				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS					
		ALTERATION	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	As	Co	Ni
	60 59 58 57 56 55 54 53 52 51 50		HBITE CUT BY DE SWARM			355	5			16745				
				'COMR CORE	TE Pir, Cpy	360	5			46				
						365	5			47				
						370	5			48				
						375	5			49				
						380	5			50	TR		TR	.02
							2.5							
				E.O.H. 383'										

ALTERATION  
 HBITE  
 MINERAL  
 - FIBR  
 - AMPH;  
 DKS FRESH  
 SERP SLK  
 @ 40°

374'  
 HBITE AS AT  
 286'





















INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. M.H.-8 30' S. 10' W. of Shaft  
 FROM 0-175  
 ELEVATION -15'  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 DIRECTION N61  
 INCLINATION N61 DEPTH 489  
 STARTED 6-7-78 COMPLETED 6-16-78

G-102

SCALE: 1" = 20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	CORE RECOVERED	CORE ASSAYS								
		ALTERATION	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	% Cu	% Ag	% Au	% Ni	% Co		
			0-12' O.B. of massive ORT + AMPH 3PK LURE		MINORITY FLUA.												
			12'			12	2.5				19001	3.00			1.24	0.11	
			15'			15	2.3		3		19002	4.02			0.24	0.02	
			20'			20	4.8		5		03	0.03			0.05	0.01	
			25'			25	5		5		04	0.04			0.05	0.01	
			30'			30	4.7		5		19005	0.02			0.04	0.01	
			35'			35	4.1		5		06	0.32			1.02	0.05	
			40'			40	4.6		5		07	1.56			1.11	0.05	
			45'			45	4.7		5		08	0.04			0.05	0.01	
			50'			50	3.0		5		09	0.76			0.14	0.01	
			55'			55	4.5		5		19010	0.78			1.92	0.09	
			60'			60	4.8		5		11	0.80			0.48	0.02	
			65'			65	5		5		12	0.21			0.14	0.01	
			70'			70	5		5		13	0.64			1.02	0.02	
			75'			75	5		5		14	0.66			1.38	0.05	
			80'			80	4.2		5		19016	0.44			0.32	0.02	
			85'			85	1.5		5		16	0.03			0.03	0.01	
			90'			90	5		5		17	0.78			1.68	0.07	
			95'			95	4.6		5		18	0.90			2.04	0.08	
			100'			100	4.4		5		19	0.32			1.40	0.06	
			105'			105	4.7		5		19020	0.64			1.80	0.07	
			110'			110	4.8		5		21	0.08			0.64	0.03	
			115'			115	4.8		5		22	0.36			0.38	0.02	
			120'			120	4.8		5		23	0.04			0.10	0.01	
			125'			125	5		5		24	0.02			0.10	0.01	
			130'			130	5		5		19025	0.02			0.01	R	
			135'			135	5		5		26	0.02			0.01	0.01	
			140'			140	4.9		5		27	R			0.01	R	
			145'			145	5		5		28	R			0.01	0.01	
			150'			150	4.8		5		29	R			0.01	0.01	
			155'			155	5		5		19030	R			0.01	R	
			160'			160	5		5		31	R			R	R	
			165'			165	4.7		5		32	R			R	R	
			170'			170	4.9		5		33	R			0.02	R	

INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

MOLE NO. 114-8  
 FROM 175-350  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 DIRECTION \_\_\_\_\_  
 INCLINATION Ver. DEPTH 487  
 STARTED 6-7-78 COMPLETED 6-16-78

G-102

SCALE: 1"=20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS %									
		LITHOLOGY	STRUCTURE	MINERALIZATION	SECTION				SAMPLE NUMBER	Cu	Ag	Au	Ni	CO				
G-102	[Diagrammatic column with depth markers and lithological symbols]	175	FA GR. DC. GSEY NB. GABBRD 5' GRAY TFX M/ local zone of XFL set 40-60'	Comp Hard COBS	TR-17% FA dus PHY. PY	180	5											
		185				185	5											
		190				190	5											
		195				195	5											
		200		125' 6" plng. nb xfl set 45'		200	4.8	5	19035	R				0.02	R			
		205				205	4.7											
		210				210	4.7											
		215				215	5											
		220				220	4.9											
		225				225	4.7	5	19036	.18				.12	TR			
		230				230	5											
		235				235	5											
		240				240	5											
		245				245	5											
		250				250	4.8	5	19037	.02				.06	11			
255				255	4.5													
260				260	5													
265				265	5													
270				270	5													
275				275	5	5	19038	.02				.06	R					
280				280	4.0													
285				285	4.7													
290				290	4.9													
295				295	5													
300				300	5	5	19039	.02				.02	R					
305				305	5	5	40	.02				.02	R					
310				310	4.8	5	41	.02				.02	R					
315				315	5	5	42	.02				.02	R					
320				320	5	5	43	.02				.02	R					
325				325	5	5	44	.02				.02	R					
330				330	4.7		19045	.02				.02	R					
335				335	4.8		46	.02				.02	R					
340				340	5		47	.02				.02	R					
345				345	6		48	R				0.02	R					

INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. MH-8 172 alkalic hole  
 FROM 350-489  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION \_\_\_\_\_  
 INCLINATION Vert DEPTH 489  
 STARTED 4-6-78 COMPLETED 6-16-78

6-102

SCALE: 1" = 20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS-%				
		LITHOLOGY	STRUCTURE	MINERALIZATION	SECTION				SAMPLE NUMBER	Cu	Ag	Au	Ni
		mod. to st. NORITE	357	dark ppt. cov T.S. 3%	355	5		19050	0.02			0.04	R
		mod. gr. Buff HYPERIC NORITE cut by 3-6" AND dikes	A comp w/c	dark ppt cov T.S. 3%	360	5		51	R			0.02	R
		3' Almond Red Rich NORITE	370 SW 45° INT CNT		365	5		52	0.02			0.04	R
		U.P. Gr. Aph DE GRAY-BLACK ANDESITIC DIKE w/meal of NORITE	115' masses of HYP dikes set as incl.	Dike barren NORITE 23% JS. w/meal of HYP	370	5		53	0.03			0.07	R
			387		375	4.8		54	0.02			0.03	R
					380	4.7		19055	0.02			0.04	R
					385	5		56	0.02			0.03	R
		mod. gr. Buff HYPERIC NORITE 50% HYP 20% HYP 20% HYP	2' HYP. PLAG Fg XTL set @ 60'	Zoned zones of warmer dikes HYPERIC T.S. 3%	390	5		57	0.02			0.03	R
					395	5		58	0.02			0.04	R
					400	5		59	0.02			0.04	R
					405	5		19060	0.02			0.04	R
					410	5		61	0.02			0.04	R
					415	5		62	0.02			0.04	R
					420	5		63	0.03			0.05	R
					425	5		64	0.03			0.07	R
		mod. gr. Buff to granit. HYPERIC 75% HYP 20% HYP 5% HYP.	one 25' 45° RT HYP HYP XTL set @ 30' 6"	zones of unmet dark ppt. cov T.S. 2-5% HYP	430	5		19065	R			0.02	R
					435	5		66	R			0.02	R
					440	5		67	0.02			0.03	R
					445	5		68	0.03			0.05	R
					450	5		69	0.02			0.05	R
					455	5		19070	0.03			0.05	R
		mod. gr. de gray TON old Hb. GABBRO grading to diorite w/ 6% green TAx. HYP set of ortho SNT. spotted look	Hard Comp Core	TL dark HYPERIC 22% T.S.	460	4.8		71	0.02			0.03	R
					465	4.7		72	R			R	R
					470	5		73	R			R	R
					475	5		74	R			R	R
					480	5		19075	R			R	R
					485	5		76	R			R	R
		mod. gr. ANDRUSITE DIO. HYP 6% HYP DIO. HYP	489 489 FOH	No HYP SULPHIDES	489	4		19077	R			R	R









INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. MH-10 Wabun D.D. 11  
 FRGM 175-  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION \_\_\_\_\_  
 INCLINATION vert DEPTH \_\_\_\_\_  
 STARTED 5/27/79 COMPLETED 5/31/79

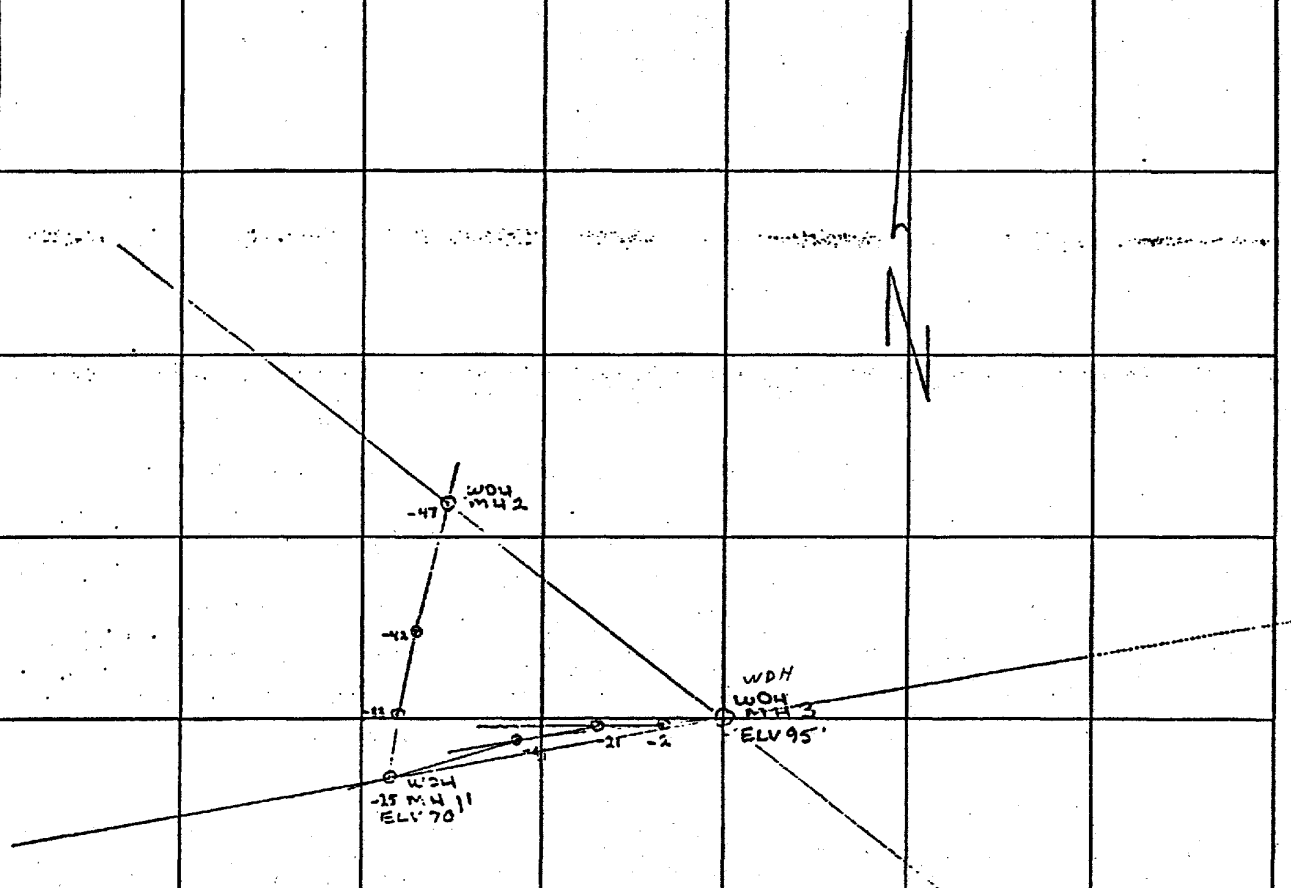
G-102

SCALE: 1" = 20'

1033 rd by 277

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS								
		ALTERATION	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	As	Au	Bi	Co		
		180	Fa. Gr. Green Actinolite Pyroxenite all layering of 2-3' hyperthec @ 40°	1 Comp core	255 PPH CRT 2/1000 blebs of PPH T.S. 1-2%	180	5		12644	0.02				0.02	TR		
		185		181 SHARP 40° LAYERING CRT		185	5		45	TR				0.02	"		
		190	187 188 Gr. Buff-Green HYP. RICH NOBITE	several off bio springs on road		190	5		46	0.02				0.03	"		
		195	189 25' siliceous actinolite			195	4.7		47	0.02				0.03	"		
		200	197 Fa. Gr. Green Actinolite PPH introduced by Qtz bio van 2.11 to core HYP remobilized along cut of vein	127 GRADIENT 45° HT 27.5 SET @ 40°	127 ± 1% Dis PPH CRT 4/1000 blebs	200	5		48	0.02				0.04	"		
		205				205	4.8		49	0.03				0.04	"		
		210				210	5		12650	0.05				0.07	"		
		215		Grad CNT	Fa. Dis PPH CRT 1-3%	215	4.8		51	0.02				0.05	"		
		220	219 188-Gr. Buff-Green HYP. RICH NOBITE all massed HYP thens	219	219	220	5		52	0.02				0.03	"		

MIRROR LOCATION MAP  
 WDH MH 1  
 1" = 100'  
 WGS MAY 1980



WDH 1 IS LOCATED 188 FEET S. FROM WDH 2 AND 153 FEET S. FROM WDH 3 AT AN ELEVATION 25 FEET LOWER THAN WDH 3 (70 FT)



INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

HOLE NO. WD-MH 11 (MIRROR HAZARD)  
 FROM 175 TO 350  
 ELEVATION ~70'  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION \_\_\_\_\_  
 INCLINATION VERTICAL DEPTH \_\_\_\_\_  
 STARTED 5/15/80 COMPLETED 5/30/80

102

SCALE: 1" = 20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS						
		ALTERATION	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Cu	Ag	Au	Zn	
L	30	CHLORITE	173-177 PHANOGREY FN GN 50/100. 1120	177 SHARP INT. CNT.	TR TO <1% TS.	180	5	100							
			BELOW 177 AT-RED GRAY GRAN. TEXT.		DISS. AND OCC. OCLAR	185	5	"							
			NORITIC GABBRO			190	5	"							
			ORTH AND CLINO PYRX. 70% MATIC			195	5	"							
			30% PLAG. PLAG ROUNDED			200	5	"	3827	TR	TR				
			SHARP TEXT.			205	5	"							
						210	5	"							
			212.0			215	5	"							
			217.0			220	5	"							
						225	5	"	3828						
						230	5	"							
						235	5	"							
						240	6	"							
						245	5	"							
		I	30					250	5	"	3829				
						255	5	"							
						260	5	"							
						265	5	"							
						270	5	"							
						275	5	"	3830						
						280	5	"							
						285	5	"							
						290	5	"							
						295	5	"							
						300	5	"	3831						
						305	5	"							
						310	5	"							
						315	6	"							
K	30							320	5	"					
						325	5	"	3832						
						330	5	"							
						335	5	"							
						340	5	"							
						345	5	"	3833	.02	.07			TR	



HOLE NO. MH-13 MIRROR HARBOR TEX-A CO  
 FROM 0-175 1.4.13  
 ELEVATION (MHTZ?)  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 DIRECTION WEST  
 INCLINATION -60 DEPTH 423.2  
 STARTED 5-11-80-81 COMPLETED 9-20-81

GEOLOGICAL DEPARTMENT  
 DIAMOND DRILL RECORD

SCALE: 1"=20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS							
		Altr	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Ni	Cu	Co			
			D-3 CASING	NO CORE		3										
			FN-MED GR, GRAY TO BUFF, SNEARED TEX NORITE.		1-29 FA DIBS PYR, W/ MTRL CPY 0-83' 1-2" intervals 1-3%	10	6									
			18% NIP 80% FLAG NO% SERRATED-DUFF TROVING 72 TALS MTR ORIGINAL MAPED IN FIELD AS AN ACTINOLITE THIS SECTION SHOULD CONTAIN TALS 3 TO 70 CONTAIN TALS CHL-ORTHO 50% 1-2% OL-OR			15	5	100								
				23 MTR SERRZONE MOD BGA CORE 6-5 30-45' FT W/ MTRAL MOD CHL: UG12 PLS C Co		20	4.7	94								
						25	4.9	98	5	5501	.04	.03	F			
						30	4.5	90								
						35	5	100								
						40	5	100								
						45	5	100								
						50	5	100	5	5502	.02	.02	F			
						55	5	100								
						60	5	100								
						65	4.6	92								
						70	5	100								
						75	5	100	5	5503	.02		F	F		
						80	5	100								
						85	5	100	5	5504	.21	.08	F			
						90	5	100								
						95	5	100								
						100	5	100	5	5505	.03	.02	F			
						105	5	100								
						110	5	100								
						115	5	100								
						120	5	100								
						125	5	100	5	5506	.04	.04	F			
						130	5	100								
						135	5	100								
						140	5	100								
						145	5	100								
						150	5	100	5	5507	.05	.03	F			
						155	5	100								
						160	5	100								
						165	5	100								
						170	5	100								
						175	5	100	5	5508	.04	.02	F			



INSPIRATION DEVELOPMENT COMPANY

HOLE NO. MH-13 MIRROR HOLE 18X 1/2" COE  
 FROM 175-350'  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION EAST  
 INCLINATION -60 DEPTH \_\_\_\_\_  
 SCALE: 1"=20' STARTED 5-11-81 COMPLETED \_\_\_\_\_

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

SCALE: 1"=20'

SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	CORE RECOVERED %	CORE ASSAYS				
		Altr	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Ni	Cu	Co
		CAL-TALC	C GR. BUFF OLIVE PYX RICH NORITE → FROZENITE	HTY UNIFORM	1-2% Fe dms above 8' (1 of PHO 71 CP)	180	5	100					
		HYP-GRN	10% HYP 80% ACT 25% PHAN OR OLIVINE HYP TAGGED ACT PHAN	COMP CORE SLIGHT FAX		185	5	100					
		TALC SILS				190	5	100					
						195	4.7	94					
						200	4.8	96	5	5509	.03	.02	F
						205	5	100					
						210	5	100					
						215	5	100					
			215 15' ZONE OF 20% PHO MICA AT 15 45-2'	215 SHY INT 10°S 30'	215 DMS CPY 0.18	220	5	100					
			SAME AS AT 180			225	5	100	5	5510	.02	.02	F
						230	5	100					
						235	5	100					
						240	5	100					
						245	5	100					
			245 HIGHLY ALTR SOFT SPIROTECHY CORE AS AT 180 TEX CAG W/PL	CLAY ON 40 FT 251-260 FAULT ZONE	1-2% Fe dms PHO.	250	5	100	5	5511	.03	.02	F
						255	4.5	90					
						260	4.5	90					
						265	4.8	96					
						270	4.8	96					
						275	5	100	5	5512	.05	.03	F
						280	5	100					
						285	4.9	98					
						290	4.9	98					
						295	5	100					
						300	5	100	5	5513	.02	.02	F
						305	4.3	86					
						310	4.5	90					
						315	5	100					
						320	5	100					
						325	4.8	96	5	5514	.02	F	F
						330	2.4	48					
						335	2.3	46					
						340	4.3	86					
						345	4.4	88					

INSPIRATION DEVELOPMENT COMPANY

GEOLOGICAL DEPARTMENT

DIAMOND DRILL RECORD

SCALE: 1"=20'

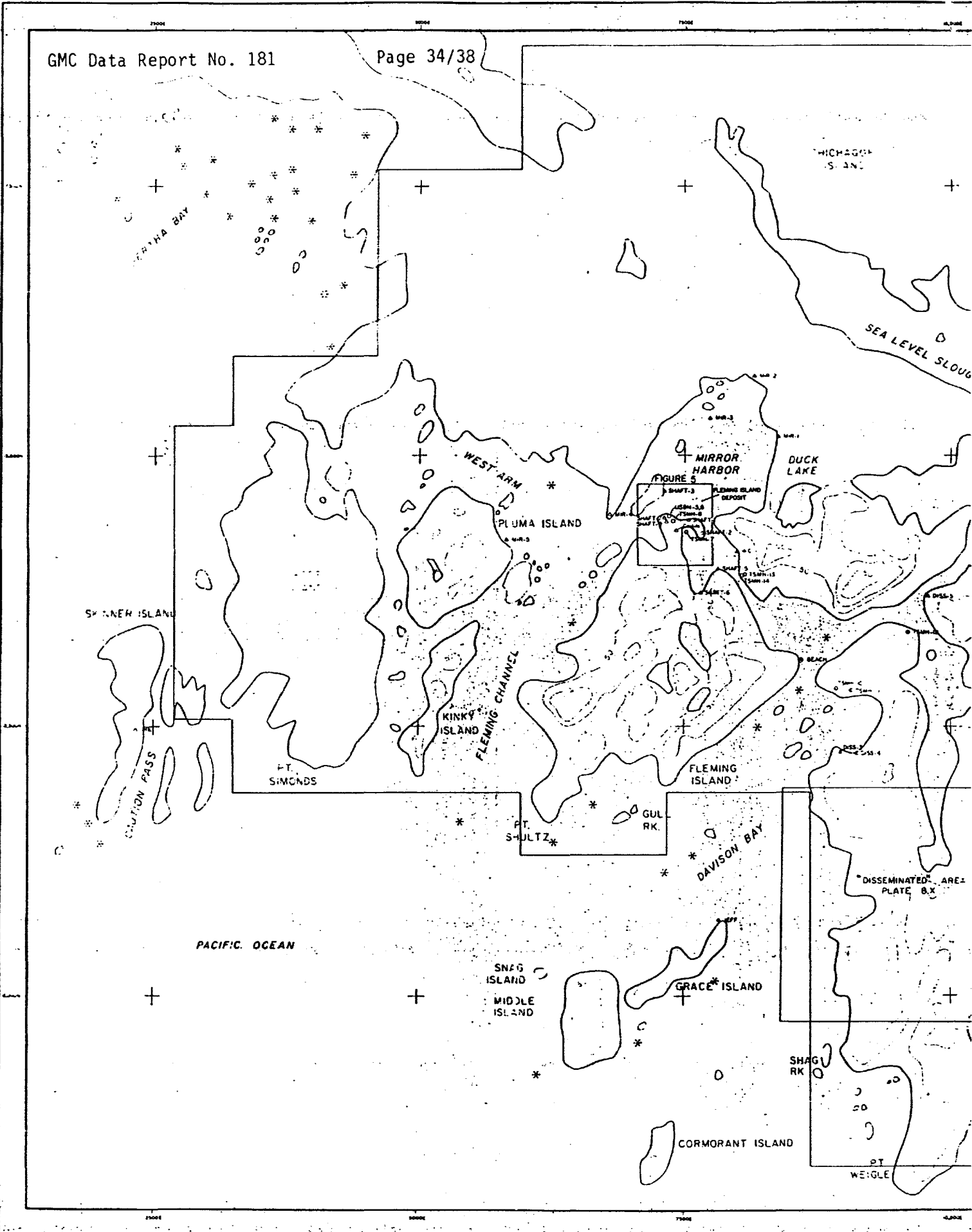
MOLE NO. MH-13 MIRROR HARBOR 1BX "A" COL  
 FROM 350'  
 ELEVATION \_\_\_\_\_  
 COORDINATES \_\_\_\_\_ N \_\_\_\_\_  
 DIRECTION EAST  
 INCLINATION -60° DEPTH \_\_\_\_\_  
 STARTED 5-11-81 COMPLETED \_\_\_\_\_

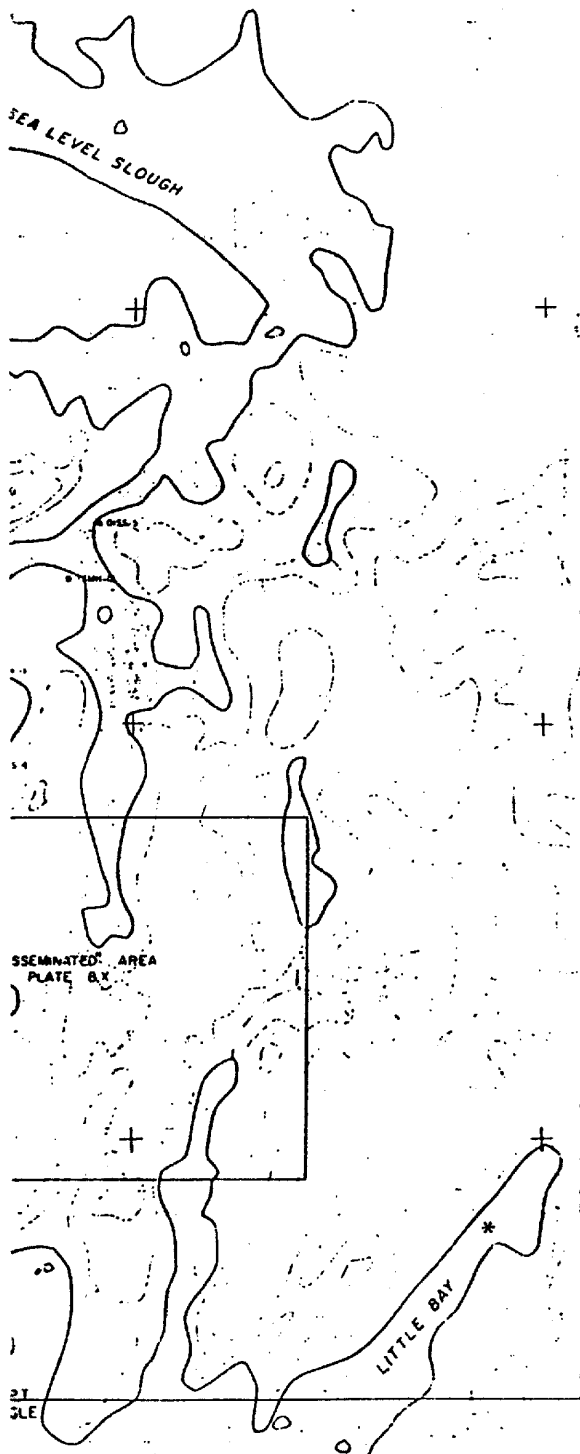
SECTION	COLUMN	GEOLOGY				SURVEY	FOOTAGE OF CORE RECOVERED	% CORE RECOVERED	CORE ASSAYS					
		Altr	LITHOLOGY	STRUCTURE	MINERALIZATION				SECTION	SAMPLE NUMBER	Ni	Cu	Co	
			350. FN. GR. MD-9164 NORITE 351	350' SNP. CNT. 351 SNP CNT.	V. FN. DISSE. SUCT. T.S. <1%	355	4.8	96						
			MD. GR. MD 9164 NORITE 351	349-354' 272. V. INT.		360	3.8	76						
			MD. GR. MD 9164 NORITE 351			365	4.3	86						
			361 272-210. DYKE 361-362' MD-CR. GR. ACTINOLITE 210H NORITE	361 SNP INT. CNT.	F. Sulf. on Fats.	370	4.8	96						
						375	5	100	5	5516	.06	.04	F	
						380	4.9	98						
						385	5	100						
					385' T.S. 1-2% FN. DISSE. FN. CR. 10:1 390, 1.5% T.S.	390	4.8	96						
						395	5	100	5	5519	.08	.05	F	
					T.S. <1%	400	4.9	98	5	5517	.09	.05	F	
						405	5	100						
						410	5	100						
						415	5	100						
					417 to top. Min. FN. DISSE. SUCT. NORITE 10:1 T.S. <1%	420	5	100						
						423.3	3.3	100	3.3	5518	.03	.03	F	
					423.3 E.O.H.									



Take SECS  
on P.F.  
MINOR CNT

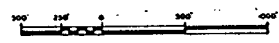
361  
C.N. P.F.TS  
w/ Take  
5.05





EXPLANATION

NAME	HEIGHT	ELEVATION	REMARKS
<b>ADJ. CONTROL POINTS</b>			
15M-7	429.27	755.67	
15M-3	3885.10	644.95	
ADJ-56	44-9.97	7352.90	
<b>TRIPLET STATION</b>			
BEACON	3099.55	267.53	
484	4292.48	742.30	
D55-3	2246.29	8194.09	14.38
D55-4	2740.96	744.45	8.65
D55-5	3690.95	803.85	13.29
JEFF	0490.27	746.02	11.42
W-1	555.98	8385.56	5.42
W-2	5700.52	815.35	7.6
W-3	5326.21	7757.46	3.63
W-4	4438.82	8800.7	3.88
W-5	4205.62	7852.86	3.62
ONE	2407.05	2350.7	16.57
SP-1	439.0	737.63	7
SP-2	427.55	741.65	2.69
SP-3	4455.5	719.29	4.88
SP-4	3639.35	741.72	2.85
SP-5	3748.54	7678.33	2.18
SP-6	4841.2	710.95	8.2
SP-7	4378.60	7332.0	7.4
SP-8	403.22	747.87	4.78
<b>ADJUTANT CHAIN CONTROL</b>			
15M-8	4164.67	7145.65	4.11
15M-4	389.00	641.32	2.42
<b>TOPGRAPHIC CONTROL</b>			
15M-10	0800.00	844.25	55.10
15M-11	0820.00	8180.00	55.00
15M-12	1370.00	9470.00	2.70



ANDROMEDA RESOURCES INC.  
TOUCHSTONE RESOURCES COMPANY

NICKEL, COPPER, COBALT DEPOSITS  
MIRROR HARBOR, ALASKA

SURVEY CONTROL

BY  
SALISBURY B ASSOC. INC.  
SPOKANE, WASHINGTON

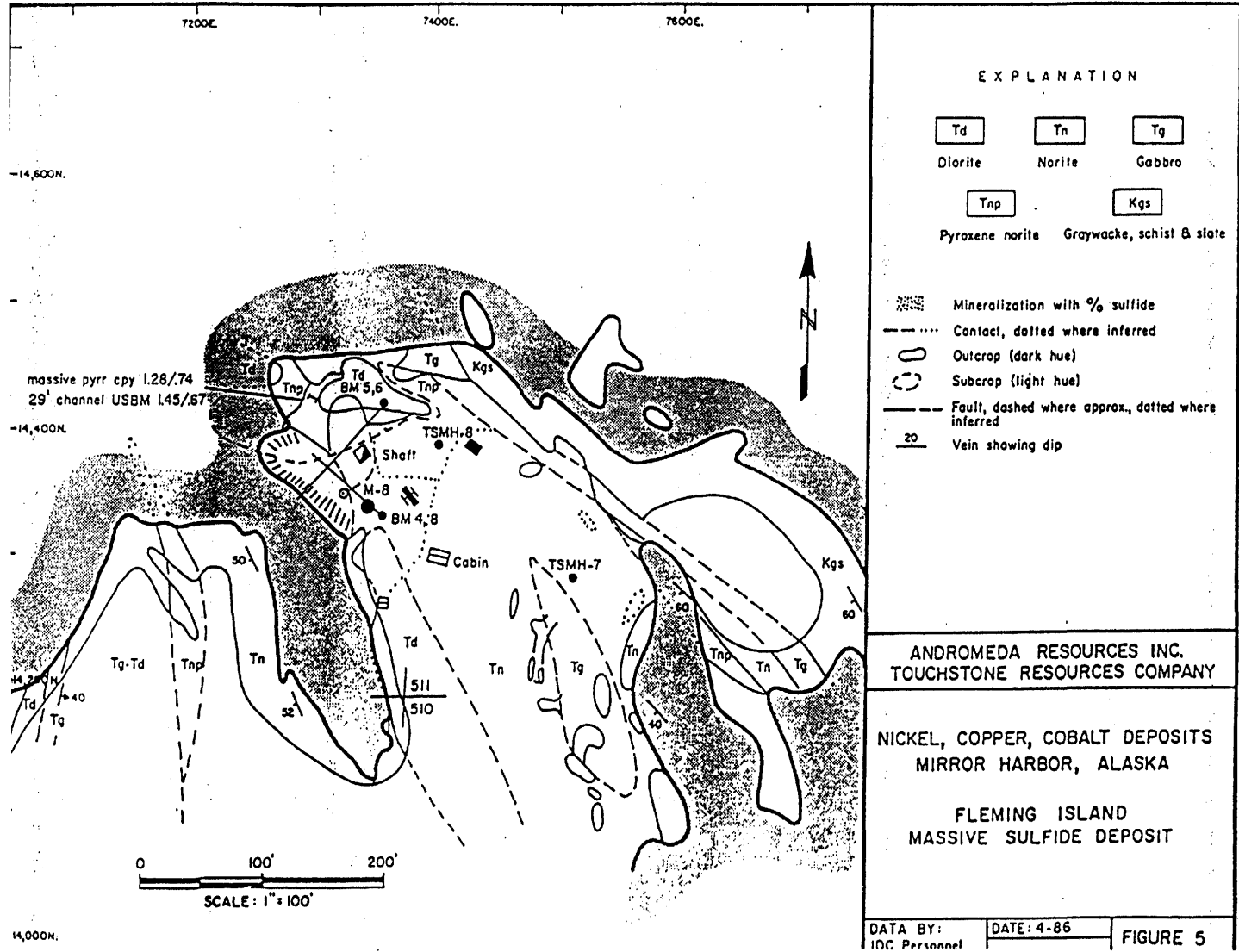
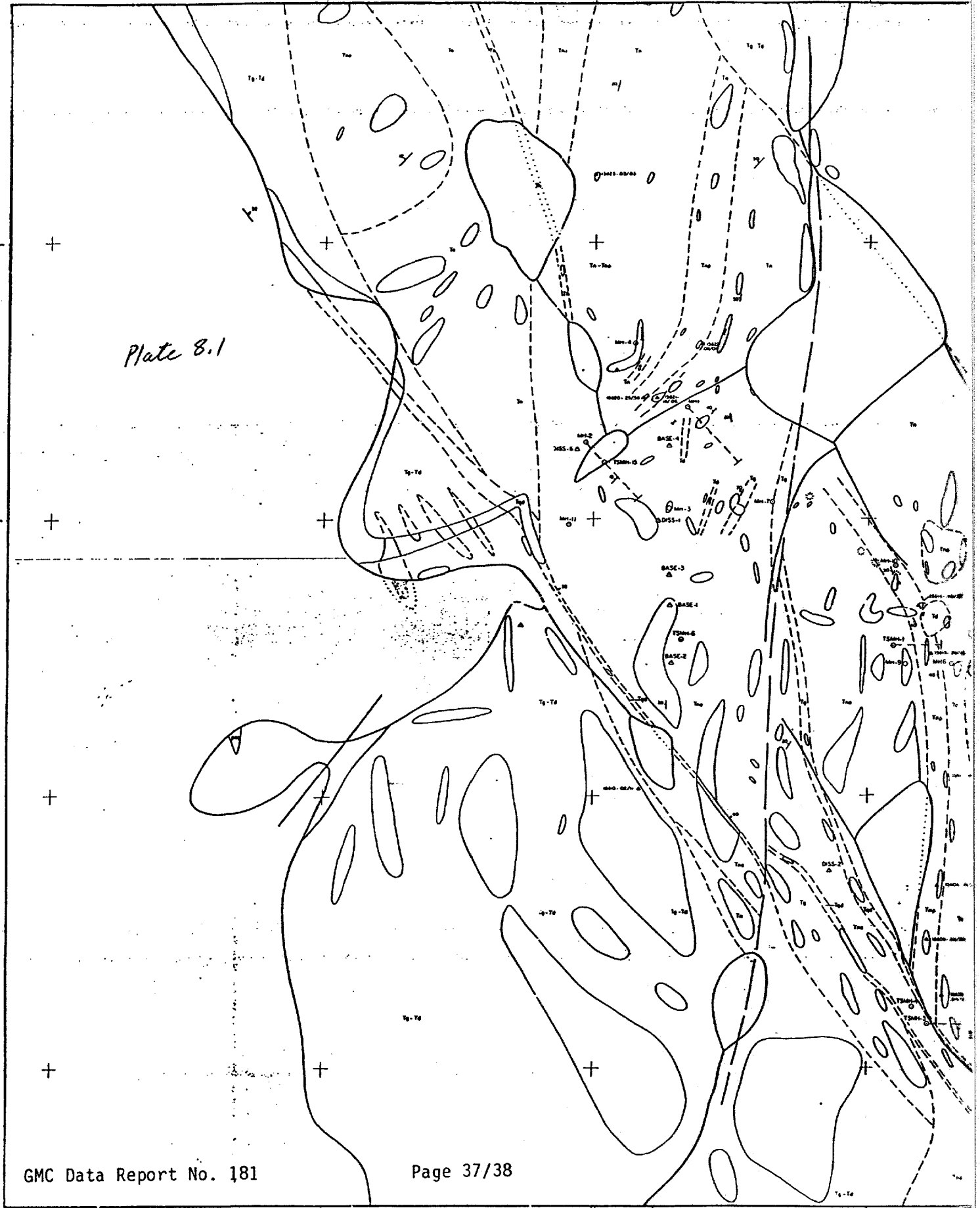


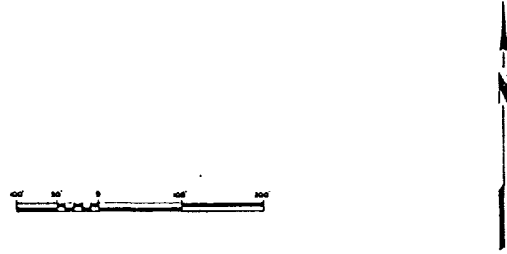
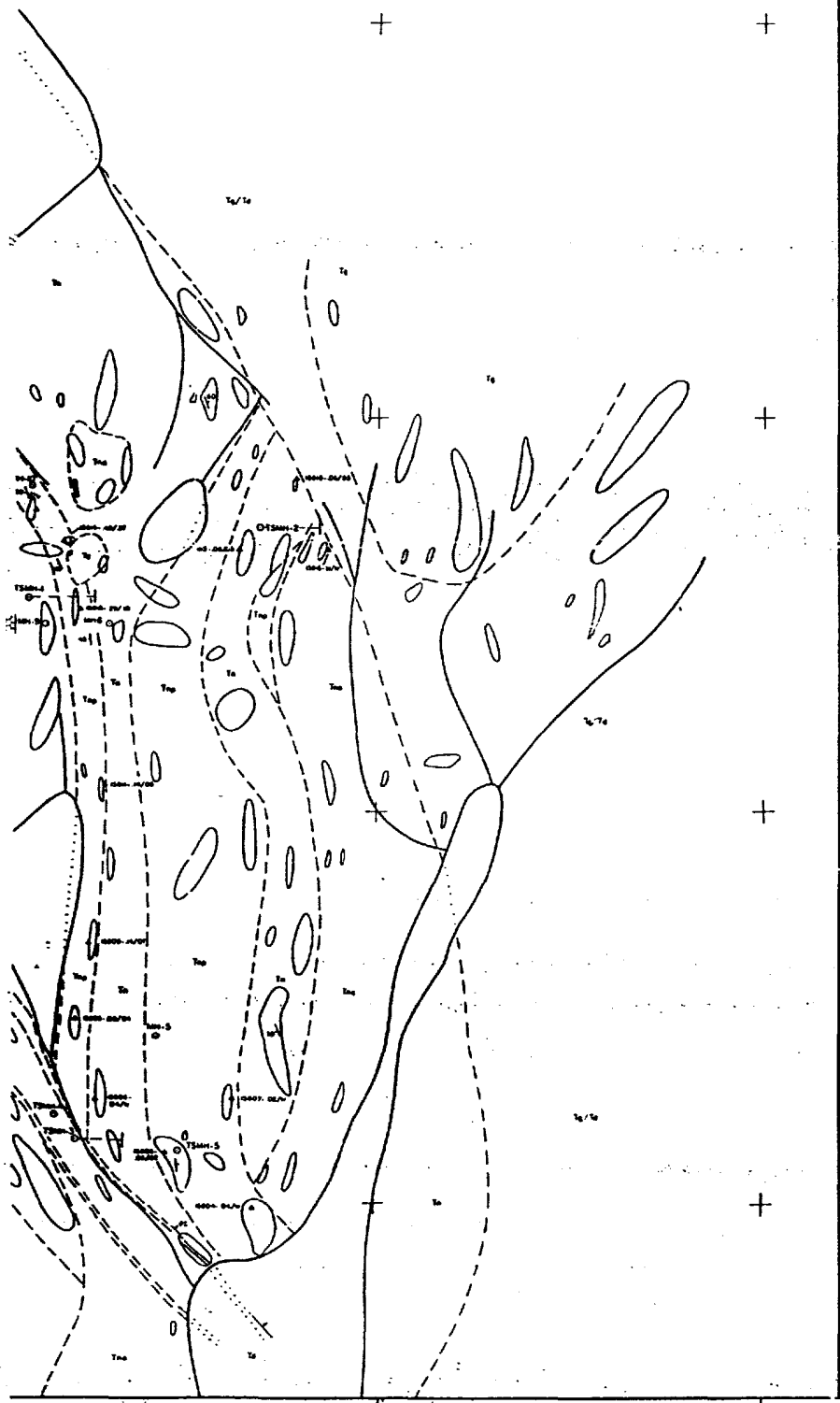
Plate 8.1



EXPLANATION

- Ta Andesite dikes
- Td Diorite
- Tan Anorthositic norite
- Tqd Quartz diorite
- Tn Norite
- Tng Norite w/gabbro
- Tgn Gabbro w/norite
- Tg Gabbro
- Tnp Pyroxene norite
- Kgs Greywacke, schist, and slate
- Th Hornblende

- Contact, dashed where inferred
- Outcrop (dark hue)
- Subcrop (light hue)
- Fault, dashed where approximately located, dotted where inferred
- Vein, showing dip
- Sample No / % Ni / % Cu
- Drill hole
- Survey station



ANDROMEDA RESOURCES INC.  
TOUCHSTONE RESOURCES COMPANY

NICKEL, COPPER, COBALT DEPOSITS  
MIRROR HARBOR, ALASKA

"DISSEMINATED" AREA  
GEOLOGY AND DRILL HOLE LOCATIONS

BY  
SALISBURY & ASSOC. INC.  
SPOKANE, WASHINGTON

DESIGN BY: DC Personnel	DATE: 4-86	PLATE 8.1
	REVISED:	