DIAMOND DRILL CORE RECORD

32 219 290 Q43

AREA OF OPERATION SAVAGE RIVER IRON DEPOSIT

Hole No. D.D.H. No. 1

Drilled by Associated Diamond Drillers

Core Recovery 38.18 Per cent

Geological Logging by — W. J. Atkinson

Location of Site 300 ft. west on Traverse E00

Date Commenced 31st October, 1957

Date Completed 17th December, 1957

Reduced Level of Site ~~1515~~ 1115' above sea level

Bearing of Hole ~~103~~ 100 degrees

Dip of Hole 41 degrees

Bore Depth 668 ft.

AMG Co-ords 335170 E 5407871 N

Ref No 2049

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
Date	From	To	Core Recov.	From	To	Description	CORE SAMPLE
1957 31/10	0'			0'		Extremely loose iron-ore scree. Pebbles of Haematite and limonite (0.5-10 cm) in matrix of clay and iron ore particles	0'
		5'	Nil		5'		5'
1/11	5'		Nil	5'	7'	Scree as above	
				7'		Yellow clay, Ironstained, weathering	7'
		10'	Nil		10'	product of amphibolite	
	10'			10'		Partially weathered amphibolite clay in joint planes, numerous grains magnetite (1.0-1.5mm) and minor amounts pyrite. Sludge (10'-15')amphibolite, magnetite and a few pyrite grains.	10'
		17'	6"		17'		
2/11	17'			17'		Slightly weathered "amphibolite", with magnetite and some pyrite.	17'
		20'	6"		20'	Sludge (15'-20') shows more pyrite than previous sludge.	
	20'			20'		No core. Five foot sludges show amphibolite material, chlorite and clay with roughly equal amounts magnetite and pyrite	20'
		42'	Nil		42'		
3/11	42'			42'		No core. Sludge of amphibolite with much pyrite. Pyrite = magnetite.	42'

ASSAY RESULTS				
Sample No.	From	To		
			=	Scree
			=	Amphibolite and magnetite amphibolite schists.
			=	Amphibolite and magnetite-amphibolite- massive types.
			=	Less than 40% total iron
			=	40-50% total iron
			=	Greater than 50% total iron.

REFERENCE

Note: Samples with an "S" number indicate sludge samples.

Silica content quoted for composite samples is total silica including silica in rock forming minerals.

Total iron content referred to is iron soluble in Hcl, HNO_3, and fuming H_2SO_4.

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	CORE	SAMPLE	Sample No.	From	To							
3/11	42'			42'		No core. Sludge of amphibolite with much pyrite. Pyrite = magnetite.	42'											
		52'	Nil		52'													
4/11	52'			52'		No core. Sludge shows amphibolite magnetite and pyrite grains.	52'											
		80'			80'	12 inches - green, schistose amphibolite, much chlorite. Schistosity 50° to axis of core. 4 inches - mineralised amphibolite with magnetite grains and pyrite veinlets.												
	80'			80'			80'											
		83'	16"		83'													
6/11	83'			83'		12" foliose, magnetite-amphibolite-schist. Magnetite as granulate masses and veinlets. Minor amounts pyrite, and some chalcopyrite grains. Schistosity about 60° to axis of core.			2	83'	89'	Cu - nil,	Au - nil	S - 0.56%				
		89'	21"		89'	9" more massive amphibolite-schist with little magnetite and pyrite.	89'											
	89'			89'		Massive amphibolite (doleritic texture) minor amounts magnetite and pyrite. 1" with much pyrite (approx. 30% as cubes.			3	89'	95'	Cu - nil	Au - nil	S - 0.27%				
		95'	39"	95'	95'		95'											

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION		ASSAY RESULTS								
Date	From	To	Core Recov.	From	To	Description	CORE	SAMPLE	Sample No.	From	To						
6/11	95'			95'		Very poor core recovery "soft bands?" in solid formation of coarse grained gabbro-amphibolite, a little magnetite, varying amounts pyrite.	95'										
									4	95'	105'	Cu - trace		Au - nil,		S - 5.27%	
		110'	46"		110'												
7/11	110'			110'		No core, soft amphibolite?	110'										
		120'	Nil		120'												
	120'			120'		Fine grained amphibolite-schist. Minor pyrite and magnetite.	120'										
		124'	10"		124'												
	124'	126'	8"	124'	126'	medium grained amphibolite-schist. large pyrite cubes.	124'										
	126'			126'		3" core, magnetite-amphibolite with some pyrite and a few grains chalco-pyrite.	126'										
		130'	3"		130'												
	130'			130'		Foliated magnetite-amphibolite with pyrite and a little chalcopyrite.	130'		5	130'	135'	Cu - nil,		Au - nil,		S - 14.2%	
		135'	42"		135'												
	135'			135'		Fine grained amphibolite-schist, magnetite pyrite, chalcopyrite.	135'										
		138'	31"		138'												
	138'	140'	24"	138'	140'	Magnetite-pyrite intergrowth. Little rock material.	138'		6	138'6	140'	Cu - 0.35%		Au - Nil,		S. - 26.7%	
8/11	140'			140'		Fine grained magnetite-amphibolite-schist, minor pyrite and haematite veinlets.	140'										
		148'	39"		148'												
	148'			148'			148'										
							150'										

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	ASSAY RESULTS									
Date	From	To	Core Recov.	From	To	Description	CORE SAMPLE	Sample No.	From	To							
8/11	150'			150'		Banded light and dark green amphibolite-schist, little magnetite. Small quartz stringers; varying amounts pyrite, generally small.	150'										
		181'	149"		181'		181'										
9/11	181'			181'		Banded light and dark green amphibolite schist, little magnetite. Small quartz stringers. Varying amounts pyrite, generally small.											
		205'	240"		205'		205'										

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	ASSAY RESULTS								
Date	From	To	Core Recov.	From	To	Description	205' CORE SAMPLE	Sample No.	From	To						
11/11	205'			205'		Massive fine grained amphibolite, schistosity absent or slight; magnetite rare, small grains in matrix. Minor amounts pyrite, possibly chalcopyrite. Some small (1-3 mm.) quartz stringers at 209'. Small serpentine veinlets (3-6mm.) at 216'-224'. Haematite on joint planes.		7	205'	208'	Cu - nil,	Au -	nil,	S - 1.03%		
		239'	206"		239'		239'									
	239'			239'		Light grey Magnetite-amphibolite, slightly schistose. Magnetite as granular masses and layers. Minor amounts pyrite.	242'									
		242'	20"		242'											
12/11	242'			242'		Magnetite amphibolite - as for 240'-242'.										
		246'	6"		246'		246'									
14/11	246'			246'		Magnetite-amphibolite-schist, proportion magnetite increases gradually. poor core-recovery indicates "soft bands". Minor amount pyrite as disseminated grains. Much iron in sludge.										
		260'	56"		260'		260'									

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION	
Date	From	To	Core Recov.	From	To	Description	CORE	SAMPLE
						260'		
14/11	260'			260'		Magnetite-amphibolite-schist, proportion magnetite increases gradually. Poor core- recovery indicates "soft bands". Minor amount pyrite as disseminated grains. Much iron in sludge.		
		272'	43"		272'			
						272'		
15/11	272'			272'		Magnetite-amphibolite-schist. Proportion magnetite variable, as granular masses and veinlets. Pyrite as small grains and aggregates. Core recovery still poor. Schistosity generally 30° - 50° to axis of core.		
		289'	57"		289'			
						289'		
	289'			289'		Dark green magnetite-amphibolite-schist, amount pyrite slightly increased. Grainsize variable. Some small veinlets of quartzo-felspathic? material and of light green serpentine.		
		313'	137"		313'			
						313'		
						315'		

ASSAY RESULTS										
Sample No.	From	To								

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
Date	From	To	Core Recov.	From	To	Description	CORE / SAMPLE
16/11	315'			315'		No core. Sludge rich in amphibolite matter, mainly chlorite and talc? particles, pyrite and a little magnetite. "Shear zone?"	
		320'	Nil		320'		320'
18/11	320'	322'	12"	320'	322'	Fine and medium grain magnetite-amphibolite, massive. Little pyrite.	322'
	322'	323'		322'	323'	Pyritized-amphibolite. Little magnetite. Pyrite as veinlets & granular masses.	323'
	323'			323'		Massive fine grained magnetite-amphibolite. Magnetite as grains (1-2mm) in ground mass, and as small veinlets (3-6mm). Several quartz veinlets (< 5mm) 327'-329'	
		329'	39"		329'		329'
	329'			329'		Coarse and medium grained magnetite-ore, minor amounts amphibolite-schist, pyrite and quartz.	332'
		332'	11"		332'		
	332'			332'		12" core - 7" magnetite-amphibolite-schist, small asbestiform veinlets-antigorite? 5" massive magnetite ore.	
		338'	12"		338'		338'
	338'			338'		Coarse and medium grained magnetite-amphibolite. Much magnetite with minor amounts pyrite, asbestos, quartz.	
		344'	5"		344'		
	344'	345'	3"	344'	345'	Magnetite-amphibolite with much pyrite.	344' 345'
	345'	346'	3"	345'	346'	Massive - amphibolite	346'
	346'			346'		Magnetite-amphibolite-schist. Proportion magnetite variable. pyrite as granular masses.	
		350'	26"		350'		350'
	350'			350'		Coarse grained magnetite ore - 12" core. Magnetite-amphibolite - 12" core.	
		355'	24"	355'			355'
19/11	355'			355'		Massive, dark green, fine-medium-grained magnetite-amphibolite. Minor amount pyrite as small grains.	
		362'	44"		362'		362'
	362'			362'		~~Minor amount pyrite as small grains~~ Coarse-medium grain granular magnetite in a sparse ground mass of foliated amphibolite material. A little quartz, talc, pyrite and serpentine.	
		370'	37"		370'		370'

ASSAY RESULTS											
Sample No.	From	To	Fe Total %	Fe HCl Sol %	Total SiO_2 %	TiO_2 %	P_2O_5 %	Mn %	S %	Al_2O_3 %
						Ti	Pz			
S101	325'	330'	22.8							
12	329'	338'	32.3							
S102	330'	335'	34.7							
A	329'	355'			24.5	1.71 1.03	0.22 0.10	0.12	1.14	
S103	335'	340'	29.9							
13	338'	346'	25.3							
S104	340'	345'	40.5							
Js	325' 350'	345' 355'			23.4	1.34 0.80	0.17 0.07	0.12	2.32	
14	346'	350'	23.5							
15	350'	355'	38.9							
S106	350'	355'	35.4							
16	355'	362'	9.2							
S107	355'	360'	41.1							
B	355'	382'			29.4	1.22 0.73	0.03 0.01	0.14	0.29	
S108	360'	365'	31.9							
17	362'	370'	33.9							
Ks	355'	380'			21.2	1.33 0.80	0.09 0.04	0.12	1.31	
S109	365'	370'	34.7							

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
Date	From	To	Core Recov.	From	To	Description	CORE SAMPLE
							370'
19/11	370'			370'		~~Minor amount pyrite as small grains~~ Coarse-medium grained granular magnetite in a sparse ground mass of foliated amphibolite material. A little quartz, talc, pyrite and serpentine.	
		381'	28"		381'		
	381'	382'	6"	381'	382'	Medium grained magnetite, as above.	381'
20/11	382'			382'		Massive fine grained magnetite-amphibolite. Small asbestos, serpentine and pyrite veinlets. Contact with magnetite is gradational.	382'
		388'	68"		388'		388'
	388'	389'	6"	388'	389'	Coarse grained magnetite, minor amounts foliose amphibolite.	389'
	389'			389'		Massive, fine grained magnetite-amphibolite, schistose in part. Schistose parts magnetite rich. Little pyrite present. Towards 400' grades into a magnetite rich variety.	
	401'	84"			401'	Magnetite ore - a talc-magnetite rock with very minor amounts pyrite and unaltered amphibolite. The talc occurs as small veinlets and masses in a magnetite groundmass, being the metamorphic derivative of the amphibolite.	401'
	401'			401'			
		423'	85"		423'		423'
21/11	423'	425'	6"	423'	425'	Talc-magnetite ore - amount pyrite variable, generally small.	425'

ASSAY RESULTS										
Sample No.	From	To	Fe Total %	Fe Hcl Sol. %	Total SiO_2 %	TiO_2 %	P_2O_5 %	Mn %	S %	Al_2O_3 %
						T_1	P_2			
S110	370'	375'	36.5							
18	370'	377'	39.9							
S111	375'	380'	40.5							
19	377'	382'	32.5							
S112	380'	385'	38.0							
20	382'	390'	12.7							
C	382'	401'			36.4	1.40 / 0.84	0.22 / 0.10	0.12	0.59	
L_s	380' / 390'	385' / 400'			23.2	1.24 / 0.74	0.09 / 0.04	0.12	1.16	
S114	390'	395'	32.4							
21	390'	397'	13.7							
S115	395'	400'	36.4							
22	397'	401'	36.6							
S116	400'	405'	46.9							
23	401'	408'	54.0							
S117	405'	410'	54.8							
24	408'	415'	57.4							
D	401'	421'			11.2	2.31 / 1.38	trace	0.12	0.98	
S118	410'	415'	53.6							
M_s	400'	420'			11.7	2.20 / 1.31	0.08 / 0.03	0.12	1.46	
25	415'	421'	47.7							
S119	415'	420'	54.5							
S120	420'	425'	54.7							
26	421'	429'	59.2							

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DRILL RECORD

Date	From	To	Core Recov.
21/11	425'		
		440'	40"
	440'		
		442'	21"
	442'	445'	12"
22/	445'		
		471'	147"
24/11	471'		
		475'	47"
	475'		
		479'	12"

GEOLOGICAL LOG

From	To	Description
425'		Talc-magnetite ore - amount pyrite variable generally small.
440'		Magnetite-amphibolite with pyrite; magnetite rich.
442'	445'	Talc magnetite ore, minor amount green amphibolite schist.
445'		Talc-magnetite ore. Proportion talc: magnetite approx. 1:10. Minor amounts pyrite as cubes or as small granulate masses. A little magnetite amphibolite schist as small rare veinlets.
471'		Magnetite-amphibolite-talc schist. Contact with magnetite ore is gradational.
475'		Magnetite-amphibolite. Much magnetite.

GEOL. SECTION

ASSAY RESULTS

Sample No.	From	To	Fe Total %	Fe Hcl %	Total SiO_2 %	TiO_2 %	P_2O_5 %	Mn %	S %	Al_2O_3 %
						T1	P2			
S121	425'	430'	57.9							
E	421'	440'			6.9	1.86	0.05	0.12	0.23	
S122	430'	435'	54.7			1.12	0.02			
27	429'	435'	55.2							
Ns	420'	440'			9.0	1.66	0.06	0.12	1.15	
S123	435'	440'	57.9			1.00	0.03			
28	435'	440'	62.9							
S124	440'	445'	49.8							
29	440'	445'	34.2							
S125	445'	450'	56.4							
30	445'	450'	54.4							
Os	440'	470'			8.8	1.60	0.06	0.12	0.84	
S126	450'	455'	57.4			0.96	0.03			
31	450'	455'	57.1							
F	440'	471'			12.2	1.82	0.05	0.12	0.18	
S127	455'	460'	60.3			1.09	0.02			
32	455'	459'	59.8							
S128	460'	465'	60.5							
33	459'	465'	55.7							
S129	465'	470'	57.9							
34	465'	471'	55.6							
S130	470±	475'	51.2							
35	471'	475'	33.9							
Ps	470'	485'			15.3	1.35	0.06	0.12	0.98	
S131	475'	480'	47.6			0.81	0.03			
36	475'	479'	50.9							

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
Date	From	To	Core Recov.	From	To	Description	CORE SAMPLE
24/11	479'			479'		Magnetite-amphibolite, generally massive, minor amount pyrite.	480'
		484'	29"		484'		484'
25/11	484'			484'		Fine and medium grained massive magnetite-amphibolite pyrite as cubes.	487'
		487'	21"		487'		
	487'			487'		Talc-magnetite ore. Transition from magnetite amphibolite gradual. Minor amounts pyrite and serpentine material.	
		503'	64"		503'		503'
26/11	503'			503'		Talc-magnetite, a little pyrite and serpentine.	
		508'	28"		508'		508'
	508'			508'		Fine and medium grained, magnetite-amphibolite minor amounts pyrite. Generally massive. Serpentine (5mm) veinlets. At 515' hole caving badly, very soft, magnetite amphibolite very hard on either side. "Shear Zone?"	
		517'	54"		517'		
28/	517'			517'		Impure magnetite (ore)-schist. Small amounts magnetite-amphibolite and serpentine minerals.	517'
		520'	12"		520'		
6/12	520'			520'		Impure magnetite (ore?) Schistose. Contains variable amounts amphibole, serpentine minerals (chrysotile and antigorite). Pyrite common, as crystals and granular masses.	520'
							535'

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Sample No.	From	To	Fe Total %	Fe Hcl %	Total SiO2	TiO2 %	P2O5 %	Mn %	S %	Al2
37	479'	484'	10.1			Ti	l2			
S132	480'	485'	41.7							
G	471'	487'			29.5	1.26	0.07	0.13	0.61	
38	484'	487'	7.1			0·76	0·03			
S133	485'	490'	47.2							
39	487'	494'	60.9							
S134	490'	495'	60.9							
Qs	485'	500'			12.1	1.47	0.06	0.12	0.84	
40	494'	500'	57.3			0·88	0·03			
S135	495'	500'	52.4							
H	487'	508'			14.1	1.88	trace	0.12	0.43	
41	500'	508'	61.0			1.13				
S136	500'	505'	54.9	53.9						
S137	505'	510'	57.9	56.9						
42	508'	515'	15.7							
S138	510'	515'	46.9	45.3						
43	515'	520'	21.8	20.5						
S139	515'	520'	48.6	47.0						
44	520'	524'	30.3	29.6						
S140	520'	524'	49.6	48.3						
45	524'	529'	48.0	46.6						
S141	524'	529'	49.9	48.8						
S142	529'	534'	52.3	50.5						
46	529'	534'	45.7	44.3						

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
Date	From	To	Core Recov.	From	To	Description	CORE / SAMPLE
6/12	535'			535'		Impure magnetite (ore?). Schistose. Contains variable amounts amphibole serpentine minerals(chrysotile and antigorite). Pyrite common, as crystals and granular masses.	535'
		543'	57"		543'		
8/12	543'			543'		An impure magnetite ore, as above. Schistosity about 40° to axis of core. Pyrite common. Siliceous impurities serpentine and amphibolite material.	543'
		558'	97"		558'		
9/12	558'			558'		Impure magnetite ore. Schistosity slight. Variable amounts pyrite, amphibolite and serpentine.	558'
		562'	30"		562'		
	562'			562'		Magnetite-amphibolite-schist. Contact with ore gradational. Much pyrite.	562'
		572'	69"		572'		
	572'			572'		Impure magnetite ore, schistose. Much pyrite and amphibolite material. Voids in core, possibly contained talc.	572'
		575'	5"		575'		
	575'			575'		Fine grained massive, magnetite ore. No talc. Little amphibolite, impurities mainly pyrite and serpentine minerals. Cemented 575', possibly minor "shear zone".	575'
		584'	46"		584'		
10/12	584'			584'		Magnetite ore, schistosity slight or absent. Little amphibolite, major impurities pyrite and serpentine.	584'
		590'	18"		590'		590'

ASSAY RESULTS										
Sample No.	From	To	Fe Total %	F HCl %	Total SiO_2 %	TiO_2 %	P_2O_5 %	Mn %	S %	Al_2O_3 %
47	534'	540'	49.6	48.4						
S143	534'	540'	53.0	52.0						
S144	540'	547'	55.2	53.5						
48	540'	547'	42.3	41.0						
49	547'	555'	41.3	40.0						
S145	547'	555'	50.3	49.1						
50	555'	563'	44.5	43.1						
S146	555'	563'	51.1	49.8						
S147	563'	567'	42.1	40.6						
51	563'	567'	32.0	30.7						
S148	567'	572'	36.6	33.6						
52	567'	572'	29.8	26.4						
S149	572'	575'	49.7	48.1						
53	572'	575'	47.6	45.9						
S150	575'	580'	54.4	53.8						
54	575'	580'	57.4	55.8						
S151	580'	585'	56.6	56.2						
55	580'	585'	47.7	46.4						
S152	585'	590'	49.6	49.0						
56	585'	590'	57.9	56.8						

Hole No. D.D.H. No. 1 - Savage River.

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DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
Date	From	To	Core Recov.	From	To	Description	CORE SAMPLE
10/12	590'			590'		Magnetite ore, schistosity slight or absent. Little amphibolite, major impurities pyrite and serpentine.	590'
		600'	25"		600'		600'
11/12	600'			600'		Impure magnetite ore, amount schistosity variable. Grades to magnetite-amphibolite-schist in parts. Much pyrite, free quartz stringers at 602'.	
		618'	110"		618'		618'
	618'			618'		Fairly massive, magnetite-amphibolite. Much serpentine and pyrite. Schistose in part.	621'
		621'	27"		621'		
12/12	621'			621'		Impure schistose magnetite. Much magnetite-amphibolite, serpentine, pyrite, quartz?	
		629'	39"		629'		629'
	629'			629'		Massive, medium grained, amphibolite. "doleritic"texture. Minor amounts magnetite and pyrite. Core recovery very poor. Boundary approx. first appears in barrel at 631'	
		635'	9"		635'		635'
13/12	635'			635'		Amphibolite as above, small quartz stringers at 640'.	
		644'	98"		644'		644' 645'

ASSAY RESULTS										
Sample No.	From	To	Fe Total %	Fe Hcl %	Total SiO_2 %	TiO_2 %	P_2O_5 %	Mn %	S %	A
57	590'	595'	49.9	48.8						
S153	590'	595'	53.8	53.0						
58	595'	600'	50.9	49.7						
S154	595'	600'	50.9	49.8						
59	600'	606'	49.6	47.4						
S155	600'	606'	49.6	48.1						
S156	606'	611'	50.4	48.8						
60	606'	611'	45.3	43.6						
S157	611'	618'	50.9	49.3						
61	611'	618'	41.1	39.7						
S158	618'	626'	51.6	50.5						
62	618'	626'	45.6	44.0						
S159	626'	631'	47.6	45.9						
63	626'	631'	53.3	52.						

No. D.D.H. No. 1 - Savage River.

DRILL RECORD				GEOLOGICAL LOG			GEOL. SECTION
	From	To	Core Recov.	From	To	Description	CORE / SAMPLE
12	644'	647'	20"	644'	647'	("Shear zone". Highly sheared "pug" (of clay, chlorite, minor amounts (pyrite.	645' 647'
	647'			647'			
		649'	12"		649'	Generally massive, medium grained amphibolite, chloritized. Much quartz -felspar as veinlets. Some pyrite, very minor amounts magnetite.	650'
/12	649'	650'	5"	649'	650'		
	650'			650'		Chlorite-quartz-felspar rock. Quartz-felspar veinlets in chloritized amphi-	
		654'			654'	bolite. Minor pyrite & magnetite about (equal.	654'
	654'			654'		Clay-chlorite pug. "Shear zone"	
		658'	14"		658'		658'
6/12	658'	659'	12"	658'	659'	Chlorite-quartz-felspar rock. As for 650' - 654'.	659'
	659'			659'		Quartz-felspar-amphibolite "gneiss" (c.f.148' to 205'). Bands (sometimes "augen") of quartz-felspar inter-growth alternate with highly sheared and chloritized amphibolite-schist. Minor amounts pyrite, little or no magnetite.	
		668'	82"		668'		668'
						END OF D.D.H. No. 1 AT 668 FEET.	

ASSAY RESULTS 32 2352 Q43

Sample No.	From	To	Fe Total %	Fe Hcl %	Total SiO_2 %	TiO_2 %	P_2O_5 %	Mn %	S %	Al_2O_3 %