

DIAMOND DRILL HOLE NO. 282

LOCATION: No 3 Orebody  
CO-ORDINATES: N - 10,003.39  
E 504.82  
R.L.: 390.25  
DATE COMMENCED: 21st November, 1969.  
DATE COMPLETED: 16th January, 1970  
FINAL DEPTH: 958 Feet  
DATE SURVEYED: 17th January, 1970.  
LOGGED BY: P. Le Messurier

					WO <sub>3</sub>	Mo
	0	64	64	0		
	64	85	20	19.7		
	85	90	5	5		
1010	90	93	3	3	0.07	0.016
1011	93	95	2	2	0.58	0.072
1012	95	97	2	2	1.02	0.052
1013	97	99	2	2	1.23	0.095
1014	99	101	2	2	1.45	0.056
1015	101	103	2	2	1.04	0.038
1016	103	106.5	3.5	3.5	0.29	0.038
1017	106.5	109.5	3	3	1.60	0.058
1018	109.5	112	2.5	2.5	0.21	0.013
1019	112	115.2	3.2	3.2	0.79	0.064
1020	115.2	116	0.8	0.8	0.15	(0.01
1021	116	118.5	2.5	2.5	1.18	0.027
1022	118.5	121	2.5	2.5	0.24	0.015
1023	121	123.5	2.5	2.5	0.23	0.010
1024	123.5	126	2.5	2.5	1.36	0.156
1025	126	128	2	2	1.28	0.076
1026	128	131	3	3	1.06	0.058

No Core - Surface sand and clay and weathered rock.

MUSCOVITE HORNFELS MUSCOVITE HORNFELS, massive fine grained siliceous rock with abundant muscovite, minor plagioclase and chlorite. Fine disseminated pyrite throughout, minor chalcopyrite.

PYROXENE/BIOTITE HORNFELS PYROXENE/BIOTITE HORNFELS, thinly banded in irregular and discontinuous bands, some minor garnet bands.

SKARN 90'-143.5' SKARN, very fine grained pyroxene rich, garnet irregularly dispersed, sporadic blebs of scheelite, and molybdenite.

(A LENS)

SKARN, fine grained, poorly banded, disseminated scheelite and molybdenite, gossanous zones with secondary actinolite after pyrite and molybdenite.

SKARN, fine to medium grain size, even percentage of garnet and pyroxene, many irregular calcite blebs, disseminated scheelite.

SKARN, fine grained with pyroxene more abundant than garnet, irregular quartz and calcite blebs sparsely disseminated scheelite of both fine and coarse grain size.

SKARN, fine to medium crystallinity equipercentage garnet and pyroxene, irregular calcite blebs-disseminated scheelite and minor molybdenite.

SKARN, generally even fine grain size and of uniform composition with equal garnet and pyroxene percentage and irregular calcite zones. Scheelite disseminated throughout in varying percentage grain size, generally fine.

					WO <sub>3</sub>	Mo
1027	131	134	3	3	0.47	0.056
1028	134	136.5	2.5	2.5	1.02	0.044
1029	136.5	139	2.5	2.5	2.43	0.088
1030	139	141.5	2.5	2.5	0.25	0.015
1031	141.5	143.5	2	2	0.88	0.040
	143.5	149	5.5	2.0		
	149	161	12	12		
	161	162.5	1.5	1.5		
	162.5	170.5	8	8		
	170.5	183	12.5	12		
	183	199	16	16		
	199	221.5	22.5	22		
	221.5	222.5	1	1		
	222.5	225	2.5	2.5		
	225	232	7	7		
	232	240.7	8.7	8.5		

MARBLE 143.5'-161' MARBLE, major solution cavity - skeletal structure and precipitate structure.

MARBLE - massive crystalline medium grained, basal 3'0" generally impure with pyroxene garnet and wollastonite bands. Very occasional scheelite flakes.

SKARN - fine grained, garnet/pyroxene intimately intermixed. Very minor scheelite.

BIOTITE HORNFELS 162.5 - 243 BIOTITE HORNFELS - well banded with irregular and discontinuous bands of pyroxene hornfels and garnet hornfels.

BIOTITE HORNFELS - a very siliceous rock, virtually a quartzite with abundant biotite both disseminated and in bands and irregular veinlets.

BIOTITE/PYROXENE HORNFELS - irregularly interbedded in variable and discontinuous units, irregular blebs of calcite and pyroxene with associated swirls.

BIOTITE HORNFELS - well banded biotite in a fine grained siliceous rock.

APLITE APLITE, fine grained.

BIOTITE HORNFELS, massive, very siliceous.

APLITE APLITE, fine grained, massive sporadic biotite and chloritic blebs. Upper two feet more basic and irregular in grain size.

BIOTITE HORNFELS - very siliceous massive dark grey.

SAMPLE No.	DISTANCE		LENGTH SAMPLED	LENGTH RECORDED	WO <sub>3</sub>	Mo
	FROM	TO				
	240.7	241	0.3	0.3		
	241	243	2	2		
1032	243	245	2	2	0.04	(0.01)
1033	245	247.5	2.5	2.5	0.15	(0.01)
1034	247.5	249.7	2.2	2.2	0.97	0.042
1035	249.7	254.5	4.8	4.8	0.09	0.022
1036	254.5	257	2.5	2.5	0.84	0.050
1037	257	261.5	4.5	4.0	0.06	(0.01)
1038	261.5	263	1.5	1.5	0.07	(0.01)
1039	263	267	4	4	0.98	0.038
	267	268.5	1.5	1.5		
	268.5	269.5	1	1		
	269.5	303	33.5	31		
	303	306.5	3.5	3.5		
	306.5	333	26.5	26		
	333	334	1	1		

APLITE

APLITE, coarse grained.

BIOTITE/PYROXENE HORNFELS - well banded.

SKARN 243'-267'

SKARN, very fine grained at top, garnet generally predominant with minor pyroxene and biotite - some irregular calcite blebs and veins. Disseminated scheelite in varying quantities throughout.

(A2 LENS)

BIOTITE HORNFELS, massive siliceous, very minor pyroxene.

SKARN, medium grained, some calcite blebs, many cavities with pyrite Molybdenite - some secondary pyroxene and actinolite. Disseminated scheelite.

SKARN, very fine grained siliceous, pyroxene rich.

SKARN, medium grained, equal garnet and pyroxene minor calcite blebs and veins variable disseminated scheelite.

BIOTITE HORNFELS - minor pyroxene rich bands.

APLITE - medium grained.

QUARTZITE  
259.5 - 303'

QUARTZITE (Siliceous Biotite Hornfels) a dense dark siliceous rock, fine grained, much disseminated biotite with zones of biotite blebs occasionally throughout in basal 3 feet unit becomes banded and more similar to biotite hornfels.

0'3" Aplite veins at 275' and 286'.

APLITE

APLITE - coarse grained granitic texture.

BIOTITE HORNFELS  
306.5' - 333'

BIOTITE HORNFELS, massive at top becoming increasingly banded with pyroxene and garnet rich bands towards base.

APLITE

APLITE, coarse grained with pegmatitic centre.

SAMPLE No.	DISTANCE		LENGTH SAMPLED	LENGTH REC'D.	ASSAYS		UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	FROM	TO			WO <sub>3</sub>	Mo			
	334	348	14	14				<u>PYROXENE HORNFELS</u> 334' - 348'	<u>PYROXENE HORNFELS</u> , strongly banded with irregular garnet and biotite rich bands very minor scheelite in some garnet bands. Basal 2'0" generally fracture and very chloritic.
	348	364.5	16.5	16				<u>META-VOLCANICS</u> 348' - 422.5' 364	<u>Meta-Volcanics</u> , Biotite/Pyroxene Hornfels with strong remnant volcanic structure with parallel feldspar phenocrysts. 0'6" Aplite vein at 363'.
	364.5	380	15.5	15				<u>APLITE</u> 364.5'-380'	<u>APLITE</u> - banded fine to coarse grained porphyritic in part, banding generally parallel to contact which is at 600 to L.C.A. Upper contact shows some alteration and chloritisation, lower contact clear and sharp.
	380	422.5	42.5	41					<u>META-VOLCANICS</u> - Biotite/Pyroxene Hornfels with strong remnant volcanic structure, many feldspar phenocrysts corroded and altered. At 402' number of feldspar decreases greatly and biotite and pyroxene increase, basal 4' of unit becomes banded and more hornfelsic.
1040	422.5	423.5	1	1	0.99	0.037		<u>SKARN AND HORNFELS</u> 422.5' - 429.5'	<u>SKARN</u> , very contorted and mixed pyroxene and garnet, chloritic veins, with pyrite, disseminated scheelite.
								(B LENS)	
1041	423.5	424	0.5	0.5	0.06	0.013			<u>BIOTITE PYROXENE HORNFELS</u> , banded.
1042	424	425	1.0	1.0	0.67	0.038			<u>SKARN</u> , fine grained garnet pyroxene, banded at top but becoming more massive - 0'1" calcite vein with scheelite near top.
1043	425	426	1.0	1.0	0.83	0.021			
1044	426	427	1.0	1.0	0.19	0.012			<u>PYROXENE BIOTITE HORNFELS</u> , banded.
1045	427	429.5	2.5	2.5	0.43	0.021			<u>SKARN</u> , banded pyroxene and garnet with irregular calcite veins.
	429.5	438	18.5	18.0				<u>LIMESTONE</u> 429' - 495'	<u>LIMESTONE</u> , banded impure, recrystallised, very minor scheelite mineralisation along joints.
	438	439	1.0	1.0					<u>BRECCIA</u> - strongly brecciated limestone with angular fragments to 1" recemented with calcite, some minor pyroxene and garnet rims on fragments.

SAMPLE No.	DISTANCE		LENGTH SAMPLED	LENGTH REC'D.	ASSAYS	
	FROM	TO			WO <sub>3</sub>	Mo
	439	472	33	33	0.16	(0.01)
A1046	472	476	4	4	—	—
	476	490.5	14.5	14		
	490.5	492	1.5	1.5		
	492	495	3	3		
	495	501	6	6		
	501	553.5	52.5			
	553.5	571	17.5			
A1047	571	575	4	4	0.17	(0.01)
1048	575	579	4	4	0.05	(0.01)
1049	579	583	4	4	0.06	0.012
1050	583	586	3	3	0.07	(0.01)
1051	586	590	4	4	1.07	0.024
1052	590	594.5	4.5	4.5	0.93	0.017
1053	594.5	598	3.5	3.5	0.26	(0.01)
1054	598	600.5	2.5	2.5	0.36	(0.01)
1055	600.5	602	1.5	1.5	0.94	(0.01)
1056	602	606	4	4	0.29	(0.01)
1057	606	610	4	4	0.40	(0.01)
1058	610	614	4	4	0.33	(0.01)

UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	<u>LIMESTONE</u> - mid-grey finely crystallised, strongly banded with black flecks and solid bands, minor garnet and pyroxene bands, unit essentially massive and uniform.	
	<u>PYROXENE SKARN</u> , quartz, pyroxene chlorite and minor garnet replacement zone, irregular banded limestone - bands of coarse grained scheelite.	
	<u>LIMESTONE</u> - mid-grey crystalline banded as above.	
	<u>PYROXENE HORNFELS</u> - banded with some biotite and garnet bands - pyrite veins and disseminations.	
	<u>LIMESTONE</u> - Mid-grey, very mottled and altered in part - calcite veinlets.	
	<u>PYROXENE BIOTITE HORNFELS</u> - banded in units of 2 to 6 inches.	
	<u>BIOTITE HORNFELS</u> 501' - 553.5'	<u>BIOTITE HORNFELS</u> - fine siliceous banded irregularly with small bands of pyroxene hornfels and occasional garnet hornfels.
	<u>BIOTITE/PYROXENE HORNFELS</u> 553.5 - 571'	<u>BIOTITE AND PYROXENE HORNFELS</u> , irregularly interbanded in units to 0'3". Irregular calcite ovoids to 0'1" with garnet and pyroxene rims sporadically throughout.
	<u>PYROXENE-GARNET HORNFELS</u> 571' - 586' (P.G.H.)	<u>PYROXENE GARNET HORNFELS</u> , fine siliceous pyroxene hornfels, many irregular calcite ovoids with pyroxene and garnet rims, some scheelite.
	<u>SKARN</u> - 586' - 637.5'	<u>SKARN</u> = garnet pyroxene skarn of varying grainsize but generally even composition, many calcite ovoids replaced to varying degrees by garnet and pyroxene, some scheelite associated with ovoids. Scheelite of generally coarse grainsize disseminated throughout.

SAMPLE No.	DISTANCE		LENGTH SAMPLED	LENGTH REC'D.	ASSAYS		UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	FROM	TO			WO <sub>3</sub>	Mo			
A1059	614	618	4	3.5	0.37	(0.01)			
1060	618	622	4	3.5	0.33	(0.01)			
1061	622	626	4	3.9	0.41	(0.01)			
1062	626	630	4	3.8	0.35	(0.01)			
1063	630	634	4	4	0.40	(0.01)			
1064	634	637.5	3.5	3.5	0.33	(0.01)			
1065	637.5	639	1.5	3	0.12	(0.01)			
1066	639	643	4	4	0.07	(0.01)			
1067	643	646	3	3	0.08	0.017			
1068	646	650	4	4	0.01	(0.01)			
1069	650	654	4	4	0.06	(0.01)			
1070	654	656	2	2	0.06	(0.01)			
1071	656	657.5	1.5	1.5	0.15	(0.01)			
1072	657.5	659.5	2	2	2.6	0.058			
	659.5	692	32.5						
1073	692	694	2	2	0.10	(0.01)			
1074	694	698	4	4	1.4	0.033			
1075	698	700	2	2	0.79	0.017			
1076	700	703	3	3	1.32	0.025			

GARNET AND PYROXENE HORNFELS, fine grained, irregularly intermixed, very sparse calcite ovoids, rare disseminated scheelite.

BIOTITE HORNFELS, fine grained generally massive with some pyroxene rich blebs.

PYROXENE GARNET HORNFELS  
646' - 656'

PYROXENE GARNET HORNFELS - abundant irregular calcite ovoids with garnet and pyroxene rims with some scheelite and pyrite in a fine grained siliceous rock heavily impregnated with pyroxene.

SKARN 656' - 659.5'

SKARN - fine grained occasional calcite blebs - disseminated coarse scheelite.

SKARN, coarse grained, abundant, fine and coarse scheelite, very sharp contact with underlying unit.

LIMESTONE  
659.5 - 692

LIMESTONE, recrystallised in a generally even fine to medium grainsize occasional coarse bands. Strongly banded in basal half of unit with fine pyroxene biotite and garnet bands and partings. 678 - 683 very clay puggy zone associated with probable major joint or solution zone.

BANDED MARBLE, biotite hornfels and garnet hornfels, fine disseminated scheelite.

SKARN

SKARN, medium grained generally uniform pyroxene garnet skarn, siliceous in part, becomes banded towards base, disseminated fine and coarse scheelite throughout.

SAMPLE No.	DISTANCE		LENGTH SAMPLED	LENGTH REC'D.	ASSAYS		UNIT	GEOLOGICAL DESCRIPTION	FRACTURING
	FROM	TO			WO <sub>3</sub>	Mo			
A1077	703	704.5	1.5	1.5	0.25	0.01	<u>BANDED HORNFELS</u> 703 - 743.5	<u>BANDED HORNFELS</u> - Pyroxene Biotite and Garnet Hornfels interbedded in variable and irregular units to 2 inches but generally less than ½". Minor scheelite associated with garnet bands in top 3 feet.	
1078	704.5	706.5	2	2	0.05	0.01			
	706.5	712	5.5	5.1					
	712	720	8	8				<u>BIOTITE HORNFELS</u> - generally fine massive siliceous, with thin banding, center.	
	720	725.5	5.5					<u>MARBLE</u> , finely recrystallised slightly banded.	
	725.5	729	3.5	3.5				<u>BIOTITE/PYROXENE HORNFELS</u> - banded irregularly.	
A3728	729	731	2	2				<u>SKARN</u> , coarse grained pyroxene rich skarn with calcite, quartz and epidote major accessory minerals. Disseminated Molybdenite, Pyrite Chalcopyrite and Pyrrhotite.	
A3729	731	733	2	2					
A3730	733	734	1	1					
A3731	734	736.5	2.5	2				<u>CALCITE HORNFELS</u> , very altered and recrystallised marble, irregular bands of garnet and pyroxene and biotite hornfels and skarn. Three 6" bands rich in scheelite.	
A3732	736	738	2	2					
A3733	738	740	2	2					
A3734	740	742	2	2					
A2735	742	743.5	1.5	1.5					
	743.5	785	41.5	36.5			<u>BIOTITE/PYROXENE HORNFELS</u> 743.5 - 856.4'	<u>BIOTITE/PYROXENE HORNFELS</u> , well banded, occasional thin garnet rich bands. 771'-775' Skarn band with disseminated scheelite. Pyritic veinlets and joint facings common in basal 4 feet.	
	785	827	42	37				<u>BIOTITE/PYROXENE HORNFELS</u> - altered and brecciated, numerous veins of pyrite calcite and bands and veinlets of chlorite and hematite. Some serpentinised sections.	
	827	856.4	29	29				<u>BIOTITE/PYROXENE HORNFELS</u> - generally thinly banded, occasional limy garnetiferous bands or blebs. Disseminated scheelite throughout. 0.1% band of crystalline quartz with pyroxene band at edge, at 855.65', contains > 1% WO <sub>3</sub> .	
	856.4	958.0	101.5	91.5			<u>GRANITE</u> 856.4' - 958'	<u>GRANITE</u> , Coarse grained, high content alkali feldspar, porphytic granite. Mafic minerals primarily biotite with some hornblende.	

