THE DOWA MINING CO., LTD. (JAPAN)

010342

PROPERTY SHEBA COPPER MINES LTD.

HOLE No. S-71-10

DIP TEST		
	Angle	
Footage	Reading	Corrected
No Test		

Hole No. S-71-10 Sheet No. _____
Section _____
Date Begun July 13, 1971
Date Finished July 24, 1971

Lat. L 8 N
Dep. 40 W
Bearing -90°
Elev. Collar 5020 A.S.L.

Total Depth 0-700'
Logged By. ~~L. W. Saleken~~
Claim J#5
Core Size B.Q.W.L.

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	o/o Cu	o/o Mo	o/o MoS_2 (Cal)	oz/T Au	oz/T Ag
0-8	Overburden-glacial Till								
0-700	M.g. to f.g. granodiorite; propylitic alt; qtz-k-spar								
	porphyries, diorite dykes; deep oxide zone								
	with Fe & malachite; mineralzation assoc with								
	steep Fr & minor qtz vns, some diss.								
8-101	Oxide zone, weathering & bleaching, Ca along	1770	8-20	12	0.01	Tr	Tr	Tr	0.02
	Fr common								
27.5-28.5	Shattered; blocky weak iron staining	1771	20-30	10	0.01	Tr	Tr	Tr	0.02
31-38.5	Shattered; blocky, weak iron staining & malachite on Fr	1772	30-40	10	0.05	Tr	Tr	Tr	0.02
53-62	Fr with weak Fe stain	1773	40-50	10	0.02	Tr	Tr	Tr	0.02
62-63	Blocky weak Fe	1774	50-60	10	0.01	Tr	Tr	Tr	0.02
63-72.5	Fe weak on Fr.	1775	60-70	10	0.03	Tr	Tr	Tr	0.01
72.5-84.5	Shattered; Fe & malachite weak	1776	70-80	10	0.13	Tr	Tr	Tr	0.01
84.5-88	F.g. qtz - k-spar prophyry (Pink Porphyry) Fe--	1777	80-90	10	0.11	Tr	Tr	Tr	0.01
	Cp weak along Fr.								
93-94.5	Shattered; blocky with Fe-Ca mod. on Fr	1778	90-100	10	0.08	0.001	0.001	Tr	0.01
101-118	Unalterd ; ca-zeolites common, Fe-Malachite	1779	100-110	10	0.06	0.005	0.008	Tr	0.01
	weak on Fr. -oxide zone								
104-105	Blocky with ca-malachite & assoc. zeolite Fr								

THE DOWA MINING CO., LTD. (JAPAN)

DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 2/11 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By. _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	Ag
108.5-110	Qtz stringers @ -70°, assoc Cp								
118-118.5	Aplite dyke @ -80°, shattered with malachite,	1780	110-120	10	0.05	0.001	0.002	Tr	0.02
	Fe-Cp on Fr								
118.5-172	Weak propylitic alt; generally shattered	1781	120-130	10	0.04	0.001	0.001	Tr	0.02
	& bleached, Fe, ca-zeolites, minor malachite-	1782	130-140	10	0.01	Tr	Tr	Tr	0.02
	oxide zone	1783	140-150	10	0.01	Tr	Tr	Tr	0.02
162-164	Fe-malachite weak on Fr	1784	150-160	10	0.01	Tr	Tr	Tr	0.02
164.5-168.5	Fe-malachite mod on Fr with strong sericite alt								
168.5-170	Intense malachite								
169.5	1" qtz vn @ -80°, assoc malachite-chrysocolla	1785	160-170	10	1.20	0.004	0.006	Tr	0.03
	with remnant Cp-Py								
170-172	Shattered; blocky, Fe intense, malachite mod	1786	170-180	10	0.51	0.002	0.003	Tr	0.03
172-189	Bleached, strong to intense sericite-clay	1787	180-190	10	0.03	0.001	0.001	Tr	0.03
	alt-oxide zone								
174-175	Fault, gouge								
183.5	Fault, blocky								

THE DOWA MINING CO., LTD. (JAPAN)

DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 3/11
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	AG
189-194.5	Weak propylitic alt; bleached, Fe-malachite	1788	190-200	10	0.04	Tr	Tr		
	weak on Fr-oxide zone								
194.5-197	Intense clay alt. assoc ep & ca								
197-240	Shear zone, shattered & blocky; bleached,	1789	200-210	10	0.03	Tr	Tr	Tr	0.03
	Strong to intense clay alt assoc sc, ch, ca	1790	210-220	10	0.03	Tr	Tr	0.005	0.02
	Fe weak - oxide zone								
218.5	3" brecciated aplite dyke, barren								
220	3" brecciated aplite dyke, barren	1791	220-230	10	0.01	Tr	Tr	0.005	0.02
221.5	6" aplite dyke, barren								
222-230	Blocky	1792	230-240	10	0.04	Tr	Tr	0.005	0.02
240-241.5	Fault; blocky, strong ca	1793	240-250	10	0.04	0.001	0.001	0.005	0.02
241.5-245	Strong sericite-clay alt, Fe weak								
245-247	Fault, blocky strong ca								
247-249.5	Strong clay alt.								

THE DOWA MINING CO., LTD. (JAPAN)

DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. ~~4/11~~
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	Ag
249.5-254	Fault zone, blocky intense clay alt.	1794	250-260	10	0.03	Tr	Tr	0.005	0.02
254-255	9" Aplite dyke @ -60°, barren								
255-263	Weak propylitic Alt, Fe weak								
	-ozide zone								
263-269	Strong clay alt, Fe weak; FI ½"	1795	260-270	10	0.04	Tr	Tr	Tr	0.03
269-273	Fault zone, blocky with Fe weak								
								Tr	0.03
273-285	Weak propylitic alt., bleached, Fe Weak	1796	270-280	10	0.03	Tr	Tr	Tr	0.03
285-287.5	Aplite dyke @ -70°, ca on Fr, barren	1797	280-290	10	0.03	Tr	Tr	Tr	0.03
287.5-288	Strong sericite alt.								
288-290.5	Aplite porphyry @ -50 , barren								
290.5-307.5	Weak to mod. propylitic alt. assoc Fe,	1798	290-300	10	0.07	Tr	Tr	Tr	0.03
	malachite, ca in Fr.	1799	300-310	10	0.13	0.005	0.009	Tr	0.03

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DIP TEST		
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Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 5/11 Lat. _____ Total Depth _____
Section _____ Dep. _____ Logged By. _____
Date Begun _____ Bearing _____ Claim _____
Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2(Cal)	Au	Ag
301-306.5	Shattered; Fr @ > -60°, strong Fe, weak								
	malachite								
306.5-307.5	Fault; blocky with ca								
307.5-316	Mod clay alt; FI ½"-¼", Fr > -60°,	1800	310-320	10	0.09	Tr	Tr	Tr	Tr
	Fe-malachite weak,								
316-330	Shattered; FI 1/8", Fr > -60°, Fe strong,								
	malachite mod.								
320-321	Aplite @ -50°, Fe on Fr	1801	320-330	10	0.22	0.001	0.002	Tr	Tr
330-334	Weak propylitic alt; FI 1", Fe-malachite	1802	330-340	10	0.11	0.001	0.001	Tr	Tr
	weak								
334-336	M.g. qtz. -k-spar porphyry (Pink Porphyry)								
336-340	M. g. diorite dyke (?)								
340-342	M.g. qtz-k-spar porphyry (Pink Porphyry)	1803	340-350	10	0.26	0.004	0.006	Tr	Tr
	@ -60°, Fe-malachite mod on Fr.								

310-355

THE DOWA MINING CO., LTD. (JAPAN)

DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 6/11
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	Ag
342-353	Mod sericite-clay alt; Fe mod, malachite								
	weak on Fr.								
349-353	Fault zone, blocky with Ca, Malachite (Mod)	1804	350-360	10	0.08	0.001	0.001	Tr	Tr
353-363	F.g. biotite porphyry (diorite variety)								
	@ -80°, foliated								
353-356	Strong clay alt								
356-357	Blocky, qtz -K-spar vn								
357-363	Unaltered with qtz stringers @ -60 with Cp								
363-370.5	Unaltered, FI 1", Fr>-70°, weak Cp	1805	360-370	10	0.12	0.001	0.002	Tr	Tr
368-368.5	Intense clay alt, hem strong assoc								
	Diss Cp								
370.5-383	F. g. qtz- k-spar prophyry @ -40°, foliated	1806	370-380	10	0.04	0.001	0.002	Tr	Tr
	contact, unaltered with Fr @ -80° containing								
	weak Cp								
380.5	½" qtz vn @ -80° assoc Mo-Cp	1807	380-390	10	0.13	0.028	0.047	Tr	Tr

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DIP TEST		
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Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 7/11
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	Ag
383-456	Weak propylitic alt; with weak diss & Fr	1808	390-400	10	0.05	0.005	0.009	Tr	Tr
	Cp & with qtz stringers; FI 1", Fr @$\geq$-70°								
406-407	qtz-k-spar porphyry @ -40°	1809	400-410	10	0.10	0.015	0.025	Tr	Tr
415	¼" qtz vn @ -70°, Mo								
415-415.5	M.g. qtz -k-spar porphyry @ -40°	1810	410-420	10	0.09	0.13	0.21	Tr	0.04
420-421	M.g. qtz-k-spar porphyry @ -40°	1811	420-230	10	0.11	0.046	0.077	Tr	0.04
453-454	Fault (sand)	1812	430-440	10	0.12	0.004	0.007	Tr	0.04
		1813	440-450	10	0.15	0.019	0.031	Tr	0.04
456-480.5	Unaltered; FI 1", Fr @>-80°, diss &	1814	450-460	10	0.07	0.008	0.014	Tr	0.04
	Fr. Cp weak assoc ch-ep-sc	1815	460-470	10	0.10	0.006	0.010	Tr	Tr
		1816	470-480	10	0.08	0.008	0.013	Tr	Tr
480.5-482.5	F.g. diorite dyke, foliated, weak propylitic	1817	480-490	10	0.16	0.008	0.013	Tr	Tr
	alt; FI ½" - 1", Fr @>-70°; Cp-Bo with								
	QTZ STRINGERS & Fr.								
482.5-498	Mod. Propylitic alt, ep-ch mod, in mafics	1818	490-500	10	0.08	0.012	0.020	Tr	Tr
	FI ½", Fr >-70°, Bo-Cp as diss, Fr &								
	with qtz stringers								
493-494	Shattered, Fe stain mod.								

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Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 8/11
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	Ag
498-504	Mod sericite-chlorite alt, Fe-malachite	1819	500-510	10	0.06	0.001	0.002	Tr	Tr
	weak on Fr. assoc Cp-Bo								
504-517	Strong sericite-clay alt; FI ¼" - 1/8", Fr @> -70°.	1820	510-520	10	0.04	0.001	0.001	Tr	Tr
505-505.5	Shattered, Blocky								
508-510	Shattered, blocky								
517-521	Intense argillic alt; shattered								
521-528	Mod sericite-clay alt. assoc weak Fe &	1821	520-530	10	0.08	0.001	0.001	Tr	Tr
	malachite on Fr.								
524.5-525	Mafic dyke, intense clay alt. with flaky sc.								
525.5	Fault, blocky								
528-535	Hornblende mafic dyke, intense clay	1822	530-540	10	0.08	0.001	0.001	Tr	Tr
	alt with flaky sc., ep-ch strong in mafics.								
529-532	Fault, blocky								
535-542.5	Strong sericite-clay alt; Fe & malachite								
	mod on Fr.								

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DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 9/11
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2 (Cal)	Au	Ag
542.5-557	Weak propylitic alt, weak Cp-Bo	1823	540-550	10	0.09	0.001	0.002	Tr	Tr
	diss, Fr filling @>-70° & with qtz								
	stringers								
545	Fr. with Native copper								
546.5-548	Strong sericite-clay assoc Cp-Bo in								
	Fr & mafics								
557-560	Strong sericite-clay alt; weak Cp-Bo	1824	550-560	10	0.08	0.002	0.004	Tr	Tr
	in Fr & qtz stringers assoc sc-ch-ep								
560-570.5	Strong sericite-chlorite alt; FI 1", Fr.> -70°	1825	560-570	10	0.08	0.002	0.003	Tr	0.02
	Fe-malachite mod. ; weak Bo-Cp in Fr. &								
	qtz stringers								
570.5-580.5	Strong sericite-chlorite alt; weak	1826	570-580	10	0.10	0.004	0.007	Tr	0.02
	Cp-Bo in F & qtz stringers @ -70°								
580.5-586	Intense sericite-chlorite alt assoc	1827	580-590	10	0.06	0.002	0.003	Tr	0.02
	weak Cp-Bo								

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DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 10/11 Lat. _____ Total Depth _____

Section _____ Dep. _____ Logged By. _____

Date Begun _____ Bearing _____ Claim _____

Date Finished _____ Elev. Collar _____ Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2(Cal)	Au	Ag
586-622.5	Strong sericite-chlorite alt; weak Cp-Bo diss								
590	¼" qtz vn @ -70°, Cp-Bo	1828	590-600	10	0.07	0.001	0.001	Tr	0.02
594-595	M.g. qtz-k-spar porphyry (Pink Porphyry)	1829	600-610	10	0.04	0.004	0.006	Tr	0.02
614	Fr @ -80°, assoc Cp-Mo	1830	610-620	10	0.04	0.002	0.004	Tr	Tr
622.5-651.5	Weak propylitic alt; weakly foliated								
	f.g., salt & pepper textured granodiorite								
	weak Cp-Bo on Fr								
628.5-629.5	Strong sericite-clay alt, assoc ¼" Ep-qtz	1831	620-630	10	0.01	0.001	0.001	Tr	Tr
	vn @ -80°, Cp	1832	630-640	10	0.05	0.002	0.003	Tr	Tr
		1833	640-650	10	0.05	0.002	0.002	Tr	Tr
651.5-665	Mod to strong sericite-chlorite alt; FI -1",	1834	650-660	10	0.07	0.002	0.002	Tr	Tr
	Fr @ > -70°, weak Cp-Bo with Fr &								
	qtz stringers								
665-670	Mod clay alt with Fe stain mod.	1835	660-670	10	0.09	0.004	0.006	Tr	0.01
670-684	Intense sericite-clay alt assoc hem.								
670-674	Shear zone with hem strong, Fault	1836	670-680	10	0.02	0.001	0.001	Tr	0.01
674-684	Shear with strong hem.								

THE DOWA MINING CO., LTD. (JAPAN)

DIP TEST		
	Angle	
Footage	Reading	Corrected

PROPERTY _____ HOLE No. S-71-10

Hole No. _____ Sheet No. 11/11
Section _____
Date Begun _____
Date Finished _____

Lat. _____
Dep. _____
Bearing _____
Elev. Collar _____

Total Depth _____
Logged By. _____
Claim _____
Core Size _____

DEPTH	DESCRIPTION	SAMPLE No.	FOOTAGE	WIDTH OF SAMPLE	Cu	Mo	MoS_2(Cal)	Au	Ag
684-694	Intense argillic alt with hem; sheared	1837	680-690	10	0.02	0.001	0.001	Tr	0.01
	with faulting								
694-700	Foliated quartz diorite, weak	1838	690-700	10	0.04	0.001	0.001	Tr	0.01
	propylitic alt with mod Fe stain								
694-696	Fault, blocky								