

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

(1a/14)

No.	Deposit name	Deposit type	Location			Geology						Deposit (1)				
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metabogenic province	Country rock	Alteration	Age of mineralization
1543	Berklemesh	Contact metamorphism	Khubsagul	50 26 00	99 49 00	North Mongolia	Near khubsugul	Depression		Limestone	E1 -khordel series		North Mongolia	Limestone		Lower Cambrian
1594	Zagastai	Contact metasomatic	Zavkhan	48 16 00	97 15 00	North Mongolia	Ider	Uplift		Dolomite	Lower Cambrian		North Mongolia	Dolomite		Lower Cambrian
143	Occur. 124-B-4,5	Hydrothermal	Zavkhan	48 24 00	97 38 00	North Mongolia	Ider	Uplift	Gabbroids			P2-Ulaistai series	North Mongolia	Gabbroids		
583	Deed ulaan (olgoi)	Hydrothermal-metasomatic	Khubsagul	49 32 00	98 41 00	North Mongolia	Tuva-Mongol	Uplift	Granite, leucocratic granite			D1-2 -Tes complex, C3	North Mongolia	Granite, leucocratic granite		
1572	Zost uul	Hydrothermal	Zavkhan	48 24 00	98 20 00	North Mongolia	Ider	Uplift	Granite porphyry, syenite porphyry	Crystalline shale, gneiss, limestone	PR3 -Khangai series	P2 -Selenge complex	North Mongolia	Granite porphyry, syenite porphyry		Upper Permian- Lower Triassic
107	Quartzite	Secondary alteration	Zavkhan	48 57 00	97 50 00	North Mongolia	Ider	Depression		Rhyolite porphyry, tuff	Permian		North Mongolia	Rhyolite porphyry, tuff		
103	Under ulaan	Secondary alteration	Zavkhan	48 53 00	97 08 00	North Mongolia	Ider	Depression		Rhyolite porphyry, tuff	Permian		North Mongolia	Rhyolite porphyry, tuff		
3808	Ulaanuur	Greisen	Khubsagul	49 38 50	99 19 40	North Mongolia	Khubsagul	Depression	Granite			D2 -Telmen complex	North Mongolia	Granite		
93	Bugsein gol	Hydrothermal-metasomatic	Khubsagul	49 11 00	99 42 00	North Mongolia	Near Khubsagul	Depression	Granite	Volcanogenic sedimentary rocks	Permian	P2-T1 -Selenge complex, delin nuur massive	North Mongolia	Volcanogenic sedimentary rocks		
3991	Jimbe tolgoi	Hydrothermal-metasomatic	Khubsagul	49 20 50	99 30 05	North Mongolia	Ider	Depression	Granite	Acid volcanic rocks, rhyolite	P2 -Khanui series upper suite	P2 -Selenge complex	North Mongolia	Acid volcanic rocks, rhyolite	Silicification, albization	
5004	Jansen tolgoi	Metasomatic	Zavkhan	49 16 00	96 48 00	North Mongolia	Ider	Uplift	Granite, granosyenite porphyry	Rhyolite porphyry, tuff	D1 -Bor nuur series	Lower- Middle Devonian	North Mongolia	Rhyolite porphyry, tuff		
481	Tagjin nuur	Hydrothermal	Zavkhan	48 58 00	97 15 00	North Mongolia	Ider	Depression		Rhyolite, dacite porphyry, tuff	Lower Devonian		North Mongolia	Rhyolite, dacite porphyry, tuff		

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No.	Deposit name	Deposit (2)				Previous survey				Remarks			
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics		Trench and pit	Drilling	Report number
1543	Berkhemesh	Skarn: 1600m x400m	Chalcopyrite, copper	Pyrite, magnetite	Cu-0.2%; Zn-0.005%		Geological mapping(1984)*	332 samples		31.2m.cub		3977	
1594	Zagastai	Skarn: 150m x15m	Magnetite		Cu-1.0%; Ag-50-60g/t		Geological mapping(1965)****					1755, 3576	
143	Occur-124 B-4.5	Alteration zone: 700m x700m	Chalcopyrite, malachite	Pyrite, lazurite	Cu-1.0%; Au-0.02g/t; Ag-8.0g/t		Geological mapping(1981)**					3576	
583	Deced ulaan tolgoi	Quartz-greisen veins: 90m x10m			Cu-0.01%; Ag-39g/t; Au-57000t; Ag-800t		Geological mapping(1987)*	385 samples		1192.4m.cub		4428	
1572	Zost uul	Stockwork: 1400m x380m	Molybdenite	Pyrite, chalcopyrite	Mo-0.01-0.25%	Mo-10190t	Prospecting work(1979); geological mapping(1977)**	5348 samples(1979)		2270.5m.cub trenches; 132m pit(s)(1979)	1268m(1979)	3122, 2982, 2981	
107	Quartzite	Alteration zone: 800m x57m	Pyrite		Cu-0.008-0.01%; Mo-0.006%		Prospecting work(1979)			452.2m.cub	65m	3122	
103	Under ulaan	Alteration zone: 800m x30m	Molybdenite	Chalcopyrite, pyrite, hematite, magnetite, malachite, covellite	Cu-0.001-0.004%; Mo-0.001%		Prospecting work(1979)	766 samples				3122	
3808	Uhaannuur	Greisen zone: 250x 150m			Cu-0.15%; Mo-0.02%	Mo-5400t	Prospecting work(1972)					4715	
93	Bugsain gol	Alteration zone: 3km			Cu-0.07%; Mo-0.01%		Geological mapping(1965)****					1828, 1814	
3991	Jimbe tolgoi	Alteration zone: 120m x2.3m	Copper		Cu-0.03%; Mo-0.0002%		Geological mapping(1993)*			87.7m.cub		4839	
5004	Jinsen tolgoi	Alteration zone: 0.7 sq.km		Pyrite, limonite	Cu		Geological mapping(1977)**					2723	
481	Tagiin nuur	Stockwork: 6000m x1000m			Cu-0.006%; Mo-0.003%		Geological mapping(1976)**	1203 samples		277.9m.cub		2986	

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			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock	Alteration	Age of mineralization
1484	South Chuluur	Hydrothermal	Khubsugul	49 26 00	98 51 00	North Mongolia	Near Khubsugul	Dipression	Granite	Rhyolite porphyry, tuff, andesite porphyry	E2 - Bugsein gol suite	J1-2 - Bugsein gol complex	North Mongolia	Rhyolite porphyry, tuff, andesite porphyry		Lower-Middle Jurassic
1596	Khurai sair	Hydrothermal	Zavkhan	48 39 00	98 13 00	North Mongolia	Ider	Uplift	Granite	Andesite porphyry, tuff	Lower-Middle Devonian		North Mongolia	Andesite porphyry, tuff		Middle Devonian
1472	Erkhil nuur	Metasomatic	Khubsugul	49 51 00	99 48 00	North Mongolia	Near Khubsugul	Dipression	Granodiorite			Middle Paleozoic	North Mongolia	Granodiorite		Middle Paleozoic
573	Khunkh tsakhir	Hydrothermal	Khubsugul	49 36 00	98 23 00	North Mongolia	Tuva-Mongol	Uplift	Granite	Acid volcanic rocks, shale, limestone	Lower-Middle Paleozoic	Upper Carboniferous	North Mongolia	Acid volcanic rocks, shale, limestone		
581	Gurvan buudal (uu)	Hydrothermal	Khubsugul	49 45 00	98 33 00	North Mongolia	Tuva-Mongol	Uplift	Leucocratic granite	shale with sandstone beds	Upper Riphean	Upper Carboniferous	North Mongolia	Leucocratic granite		
3474	Narim azarga	Hydrothermal	Khubsugul	50 01 40	98 29 00	North Mongolia	Khubsugul	Uplift		Crystallin shale	R1-2 - Khug series		North Mongolia	Crystallin shale		
3475	Khaisin belchir	Hydrothermal	Khubsugul	50 10 35	98 44 58	North Mongolia	Khubsugul	Uplift		Crystallin shale	R1-2 - Khug series		North Mongolia	Crystallin shale		
1481	Naranbulag	Hydrothermal	Zavkhan	48 34 00	97 47 00	North Mongolia	Ider	Dipression	Granite porphyry, leucocratic granite			Upper Permian	North Mongolia	Granite porphyry, leucocratic granite		Upper Permian
2399	Solongot	Hydrothermal-metasomatic	Akhangaui	48 09 51	99 00 50	North Mongolia	Tariat-selenge	Uplift	Granite	Limestone, gneiss	Lower Proterozoic	Middle Riphan	North Mongolia	Limestone, gneiss	Skarnization, hornfelsization, silicification	
4617	Tavan tolgoi	Hydrothermal	Khubsugul	50 09 00	98 37 00	North Mongolia	Near Khubsugul	Uplift		Limestone, clay, shale	R1 - Muren suite, MZZ		North Mongolia	Limestone, clay, shale		
1456	Sharain khudag	Contact metasomatic	Zavkhan	49 27 00	96 48 00	North Mongolia	Ider	Uplift	Granite	Rhyolite, trachyhyolite	Upper Permian	PZ1 - Telmen complex	North Mongolia	Granite		Upper Permian
1457	Askhat uul	Hydrothermal	Zavkhan	49 22 00	96 36 00	North Mongolia	Ider	Uplift	Granite			PZ1 - Selenge complex	North Mongolia	Granite		Upper Paleozoic

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No.	Deposit name	Morphology	Deposit (2)		Grade	Ore reserve	Geology	Previous survey			Remarks
			Ore mineral	Gangue mineral				Geochemistry	Geophysics	Trench and pit	
1484	South Chuluut	Alteration zone: 750m x100m	Chalcopyrite, malachite	Galena, molybdenite, anglesite, sphalerite	Cu-0,06%; Ag-0,02g/t		Geological mapping(1972)**				2256
1596	Khuurui sair	Alteration zone: 500m x5m	Chalcopyrite, malachite		Cu-0,09%; Mo-0,02%		Prospecting work(1979)*	56 samples	364m.cub		3569
1472	Erkhit nuur	Skarn: 17m x 7m	Malachite, azurite	Sphalerite, molybdenite	Cu-0,38-3,85%; Zn-0,06-1,48%		Geological mapping(1969)**		11 digs		1279, 1914
573	Khunkh tsakhir	Mineralization zone: 800m x150m			Cu-0,02%; Ag-2,0g/t	Ag-20t	Geological mapping(1987)*	1560 samples	222,2 m.cub	140m	4428
581	Gurvan buudal uul	Alteration zone: 5200m x1000m			Au-0,1-1,2g/t; Ag-1,2g/t		Geological mapping(1987)*		80m pits		4428
3474	Narin azaga	Alteration zone: 2000m x400m	Pyrite	Hematite	Au-0,05-0,2g/t		Geological mapping(1992)*				4863
3475	Khasiin belhir	Alteration zone: 3400m x1200m	pyrite	Magnetite	Au-0,07g/t; Cu-0,003%		Geological mapping(1992)*				4863
1481	Naranbulag	Stockwork: 900m x400m	Malachite, azurite, chalcopyrite	Molybdenite, pyrite, limonite	Cu-0,015-0,8%; Ag-10,2g/t		Geological mapping(1965)****; (1976)**	0,8 sq.km field(1976)	Electric (1976)	1 pits(1976)	2581, 3576
2399	Solngot	Alteration zone: 1700m x170m	Lazurite, malachite	Chalcopyrite, pyrite, hematite	Cu-0,1%; Au-0,1g/t; Ag-4,0g/t		Geological mapping(1982)**	165 samples	295,7 m.cub		3684
4617	Tavan tolgoi	Dykes: 150m x1,7m	Pyrite	Chalcopyrite, galena	Cu-0,01%;		Geological mapping(1992)*				4863
1456	Sharam khudag	Skarn: 220m x22m	Sphalerite	Malachite, chalcopyrite, pyrite	Cu-4,18%; Ag-0,1g/t		Geological mapping(1980)**	124 samples		266m	3593
1457	Askhat uul	Alteration zone: 530m x6m	Sphalerite	Hematite	Cu-0,02%		Geological mapping(1979)**	45 samples	175,7m.cub		3592

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			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metabogenic province	Country rock	Alteration	Age of mineralization
106	Davaa	Hydrothermal-metasomatic	Zavkhan	48 56 00	97 44 00	North Mongolia	Ider	Depression	Granite	Alkaline volcanic rocks	Permian	P2-T1 - Selenge complex	North Mongolia	Alkaline volcanic rocks		
1471	Arshaan	Metasomatic	Khubsugul	49 53 00	99 49 00	North Mongolia	Khubsugul	Depression	Syenite, granosyenite	Carbonate rocks	V-E1 - Khesen suite	PZ3 - Selenge complex	North Mongolia	Carbonate rocks		PZ3-T1
1453	Menget uul	Skarn	Zavkhan	49 33 00	96 56 00	North Mongolia	Ider	Uplift		Limestone	Proterozoic		North Mongolia	Limestone		
574	Ulaan zavsai	Hydrothermal	Khubsugul	49 30 00	98 40 00	North Mongolia	Tuva-Mongol	Uplift	Dykes?	Terrane?	R3 - Darkhad series	D1-2 - Tes complex	North Mongolia	Terrane?		
2236	Taraiin gol	Hydrothermal	Arkhangai	48 12 50	99 26 35	North Mongolia	Ider	Uplift	Granite, gabbro, diorite			PZ2 - Tarbagatai complex	North Mongolia	Granite, gabbro, diorite		Middle Paleozoic
4699	Solongol gol	Hydrothermal	Arkhangai	48 09 15	99 00 32	North Mongolia	Khangai	Outcrop	Granite	Limestone	lower Proterozoic	Upper Riphean	North Mongolia	Granite		Upper Riphean
3892	Altargana	Placer	Khubsugul	50 10 06	98 58 10	North Mongolia	Khubsugul	Depression		Sediment	Quaternary		North Mongolia	Sediment		
3996	Buyantin bulag	Placer	Khubsugul	49 46 50	99 24 10	North Mongolia	Khubsugul	Depression		Sediment	QII		North Mongolia	Sediment		
4156	Dood tsetsuukh	Placer	Khubsugul	48 31 00	99 10 10	North Mongolia	Tarbagatai outcrop	Anticlinal		Sediment	QIV		North Mongolia	Sediment		
3942	Jigin gol's field (18-B-VII1)	Placer	Khubsugul	50 45 30	99 31 00	North Mongolia	Khubsugul	Depression		Sediment	QIV		North Mongolia	Sediment		
4155	Ikh baits	Placer	Arkhangai	48 27 20	99 50 20	North Mongolia	Tarbagatai outcrop	Horst-anticlinal		Sediment	QIV		North Mongolia	Sediment		
3477	Ogloguin gol	Placer	Khubsugul	50 00 00	98 39 00	North Mongolia	Khubsugul	Uplift		Sediment	QIII-IV		North Mongolia	Sediment		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia (3b/14)

No	Deposit name	Deposit (2)				Previous survey						Reference	Remarks	
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling			Report number
106	Davaa	Alteration zone: 500m x100m			Cu-0.05%				Prospecting work(1979)	32 samples	313.2m.cub	142.8m	3122	
1471	Arshaan	Skarn:	Tungstenic	Chalcopyrite, malachite,	Au-0.25g/t; Ag-30g/t; Cu-0.12%			Prospecting work(1990)	50x25m field	8600m.cub	1309m	4379		
1453	Menget uul	Skarn: 250m x350m	Magnetite	Malachite, azurite	Cu-1.05%			Geological mapping(1976)**	12 samples				822, 2218	
574	Ulaan zavsar	Quartz veins: 250m x0.15m			Au-0.1g/t; Ag-2.0g/t			Geological mapping(1987)*	350 samples	215.3m.cub			4428	
2236	Taratim gol	Quartz vein: 50m x5m			Au-0.1g/t; Ag-10g/t			Geological mapping(1982)**		213m.cub			3684	
4699	Solngot gol	Quartz vein: 50m x5m	Gold	Silver	Au-0.1g/t; Ag-4.0g/t			Geological mapping(1981)**					3684	
3892	Altargana	Gold bearing bed: 1200m x52m	Gold		Au-549mg/m.cub	Au-26kg		Prospecting work(1991)					4746	
3996	Buyantim bulag	Gold bearing bed: 1000m x160m	Gold	Pyrite	Au-400mg/m.cub	Au-128kg		Geological mapping(1992)*		8 pits			4839	
4156	Dood tsetsaukh	Gold bearing bed: 36sq.km	Gold		Au-16-80mg/m.cub			Geological mapping(1995)*	20 samples	213,7m pits	65,5m		5035	
3942	Jiguii gol's field (18-B-VII-1)	Gold bearing bed: 1,5x0,3km	Gold		Au- gold signs			Prospecting work(1993)		4m pits			4770	
4155	Ikh baits	River's valley: 140m	Gold		Au-33-450mg/m.cub	Au-160,4kg		Geological mapping(1996)*		57m pits	210.8m		5035	
3477	Oglogiin gol	Gold bearing bed: 1-2m wide	Gold		Au-0.01g/t			Geological mapping(1992)*					4863	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

(4a/14)

No.	Deposit name	Deposit type	Location			Geology					Deposit (1)					
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock	Alteration	Age of mineralization
3879	Suurtiin bulan	placer	Khubsugul	50 09 00	98 51 20	North Mongolia	Khubsugul	Uplift		Sediment	QIV	North Mongolia	Sediment			
3934	Ukhaa khem Burgaliai Field	Placer	Khubsugul	51 46 00	99 36 00	North Mongolia	Khubsugul	Dipression		Sediment	QIV	North Mongolia	Sediment			
4476	Khasiin gol	Placer	Khubsugul	50 10 00	98 40 00	North Mongolia	Khubsugul	Uplift		Sediment	QIV	North Mongolia	Sediment			
3893	Khasiin gol (24-1-4)	Placer	Khubsugul	50 11 00	98 43 00	North Mongolia	Khubsugul	Dipression		Sediment	O	North Mongolia	Sediment			
1518	Khoton gol	Placer	Khubsugul	51 14 00	99 56 00	North Mongolia	Near Khubsugul	Dipression		Sediment	N-QIV	North Mongolia	Sediment			
3880	Tsagaan bulan (27-1-5)	Placer	Khubsugul	50 08 00	98 52 40	North Mongolia	Khubsugul	Uplift		Sediment	QIV	North Mongolia	Sediment			
3933	Siar belchir	Placer	Khubsugul	51 30 00	99 31 20	North Mongolia	Khubsugul	Dipression	Granite	Sediment	QIV	North Mongolia	Sediment			
1512	Shergis	Placer	Khubsugul	51 51 00	99 47 00	North Mongolia	Tuva-Mongol	Uplift		Sediment	QIV	North Mongolia	Sediment			
455	Ikh bulag (No.37)	Hydrothermal	Zavkhan	48 47 00	96 37 00	North Mongolia	Khan khukhi	Uplift	Granite			North Mongolia	Granite	Upper Proterozoic		
1492	Khan jargalant uul	Metasomatic	Khubsugul	49 02 00	100 00 00	North Mongolia	Near Khubsugul	Dipression	Granite, granosyenitic	Limestone, sandstone, conglomerate	E1 -Khorol suite; E3 -Arsai suite	North Mongolia	Granite, granosyenitic	T1 -Sebuge complex		
3903	(71-1-5)	Hydrothermal	Khubsugul	50 09 00	98 51 00	North Mongolia	Khubsugul	Uplift		Dolomite, quartzite, limestone, shale	R -Darkhad series	North Mongolia	Dolomite, quartzite, limestone, shale			
181	Scarn	Metasomatic	Khubsugul	50 11 00	100 00 00	North Mongolia	Near Khubsugul	Sinclinal	Granodiorite	Limestone	V-E1	North Mongolia	Granodiorite	Devonian		

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			Ore mineral	Gangue mineral				Geochemistry	Geophysics	Trench and pit	Drilling		
3879	Suurtiin bulan	Gold bearing bed: 0.5-1.0m wide	Gold		Au-0.03-0.07g/t		Prospecting work(1990)					4746	
3934	Ukhaa khem Burgaltai field	River's valley: 30-50m wide	Gold		Au-gold signs		Prospecting work(1993)					4770	
3476	Khasiin gol	Gold bearing bed:	Scheelite	Chalcopyrite	Au-gold signs		Geological mapping(1992)*		82m pits			4863	
3893	Khasiin gol (24-1-4)	Gold bearing bed:			Au-signs		Geological mapping(1990)*		13.95m pits			4746	
1518	Khoton gol	Quartz vein: 60m x20m	Gold	Chalcopyrite, malachite, pyrite, arsenopyrite	Au(ore)-1.2g/t; Au(placer)-1.0g/m.cub		Prospecting work(1965)		32 pits			486, 1812	
3880	Isagaan bulan (27-1-5)	Gold bearing bed:			Au-signs		Prospecting work(1988)					4746	
3933	Shar helchir	Gold bearing bed: 2-3.5m wide	Gold		Au-10-100mg/m.cub	Au-40.5kg	Prospecting work(1993)					4770	
1512	Shergis	Bed:	Gold		Au-signs		Geological mapping(1941)					346	
455	Ikh buitig (No37)	Quartz vein: 650m x180m			Ag-0.2-0.5g/t		Geological mapping(1976)**					2723	
1492	Khan jargalant uul	Skarn:90m x10m	Malachite, azurite	Magnetite	Cu-1.0%		Geological mapping(1975)**	475 samples	507.6m.cub			2660	
3903	(71-1-5)	Shale bed:60-120m wide			Cu-		Geological mapping(1989)*			147.8m		4746	
181	Scarn	Skarn: 1.5-8m wide			Cu-0.015-1.0%, Ag-5-10g/t		Geological mapping(1982)*		59.6m.cub			3649	



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(5a/14)

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			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock	Alteration
168	Chargat	Magmatic	Zavkhan	48 35 00	98 08 00	North Mongolia	Ider	Uplift	Granodiorite, gabbro, gabbroic diorite		Lower Paleozoic	North Mongolia	Granodiorite, gabbro, gabbroic diorite		
1598	Tsetsuukh	Hydrothermal	Zavkhan	48 36 00	98 57 00	North Mongolia	Ider	Uplift	Granodiorite		PZ1 - Telmen complex	North Mongolia	Granodiorite		
1597	Tsaar	Hydrothermal	Zavkhan	48 39 00	98 45 00	North Mongolia	Ider	Uplift	Granite		Middle Paleozoic	North Mongolia	Granite		
1590	Khindiin davaa	Hydrothermal	Zavkhan	48 07 00	96 00 00	North Mongolia	Ider	Uplift		Porphyritic	Lower Devonian	North Mongolia	Porphyritic		
164	Khuurai nuur	Hydrothermal	Zavkhan	48 53 00	97 43 00	North Mongolia	Ider	Dipression	Granosyenite porphyry, granitic porphyry		P2-T1 - Selenge complex	North Mongolia	Granosyenite porphyry, granitic porphyry		
1553	Kharaat uul	Contact metasedimentary	Zavkhan	49 14 00	96 42 00	North Mongolia	Ider	Uplift	Granite	Marble	Proterozoic	North Mongolia	Marble		
1556	Takhilt nuur	Hydrothermal	Zavkhan	48 46 00	96 45 00	North Mongolia	Ider	Uplift	Gabbroic diorite, diorite		PR3 - Tes complex	North Mongolia	Gabbroic diorite, diorite		
4697	Solongoiin gol	Contact metasedimentary	Arkhangai	48 07 32	99 05 26	North Mongolia	Khangaï	Outcrop	Granite	Limestone	lower Proterozoic	North Mongolia	Limestone		
1559	Scam	Contact metasedimentary	Khutbegui	49 12 00	97 41 00	North Mongolia	Ider	Dipression	Granite	Limestone	Lower Cambrian	North Mongolia	Limestone		
454	Saugin daai No2	Hydrothermal-metasedimentary	Khutbegui	49 12 00	99 15 00	North Mongolia	Ider	Uplift	Granite	Volcanic rocks	P - Zaun nuur series	North Mongolia	Granite		
460	South part	Magmatic	Zavkhan	49 13 00	96 01 00	North Mongolia	Khan khukhii	Uplift	Granite, gabbro		PZ, MZ	North Mongolia	Granite, gabbro		
1554	Ontu uul	Hydrothermal	Zavkhan	49 10 00	96 18 00	North Mongolia	Ider	Uplift	Leucocratic granite		Upper Proterozoic	North Mongolia	Leucocratic granite		Upper Proterozoic

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia (5b/14)

No.	Deposit name	Deposit (2)										Reference	Remarks
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling		
168	Chargat	Alteration zone:			Cu-0.02%		Geological mapping(1979)*	159 samples		1247m.cub		3569	
1598	Tsetsuukh	Quartz vein: 40m x0.1m	Malachite, chalcopyrite	pyrite	Cu-0.3-1%; Ag-0.03g/t		Geological mapping(1966)****					3711, 1760	
1597	Tsart	Quartz vein: 50m x5m	Chalcopyrite, malachite, azurite		Cu-0.42%		Geological mapping(1966)****; (1981)**			42m.cub(1981)		3711, 1760	
1590	Khundim davaa	Magnetite vein: 40m x0.5m	Magnetite, malachite, pyrite	Chalcopyrite, pyrite	Cu-		Geological mapping(1959)*****					1420	
104	Khuraai nuur	Alteration zone: 150m x35m; quartz vein: 90m x0.35m			Cu-0.03-0.08%		Prospecting work(1978)			2 digs		3122	
1553	Kharaai uul	Skarn: 1500m	Malachite, chalcopyrite	Magnetite	Cu-0.001-0.006%		Geological mapping(1977)**	30 samples		1 dig		2723	
1556	Takhtil nuur	Mineralization zone: 150m x80m	Malachite, azurite, chalcopyrite	Pyrite, magnetite, hematite	Cu-0.24%		Geological mapping(1977)**	280 samples		209, 1m.cub		2723	
4697	Sokngotin gol	Skarn: 10m x3.5m	Chalcopyrite	Magnetite	Cu-0.02%		Geological mapping(1981)**					3684	
1559	Scarn	Skarn: 1000m x150m	Malachite	Epidote, garnet	Cu-0.001-0.02%		Geological mapping(1977)**			315m.cub		1719, 2986	
454	Sangjin dala No2	Quartz vein: 1-25cm			Cu-0.008-0.04%		Geological mapping(1977)**	1521 samples		421, 8m.cub	303, 8m	2651	
460	South part				Cu-0.003-0.01%		Prospecting work(1976)			1109m.cub	287m	2975	
1554	Onis uul	Mineralization zone: 220m x15m	Malachite	Pyrite	Cu-0.04-0.1%		Geological mapping(1977)**	127 samples		303, 6m.cub	16m	2723	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

(6a/14)

No.	Deposit name	Deposit type	Location			Geology					Deposit (1)				
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock	Alteration
1580 No.23	Hydrothermal	Khubs gul	48 42 00	99 13 00	North Mongolia	Ider	Uplift		Metamorphic rocks	Proterozoic	North Mongolia	Metamorphic rocks			
1578 No.14	Hydrothermal	Khubs gul	48 53 00	99 31 00	North Mongolia	Ider	Uplift		Crystallin shale, marble	Upper Proterozoic	North Mongolia	Crystallin shale, marble			Upper Proterozoic
3993 Minjuur toigoi	Skarn	Khubs gul	49 32 00	99 32 00	North Mongolia	Ider	Uplift	Granite	Limestone, metamorphic rocks	R3 -Darkhad series lower bed	North Mongolia	Limestone, metamorphic rocks			
5332 Minjuurt	Skarn	Khubs gul	49 32 00	99 00 00	North Mongolia	Ider	Uplift	Granite	Shale, limestone	PR3 -Khar sair series	North Mongolia	Shale, limestone			
5228 Ikh uul	Hydrothermal	Zavkhan	48 32 00	98 42 00	North Mongolia	Ider	Uplift	Granite			North Mongolia	Granite			
3931 Occur-9	Hydrothermal	Khubs gul	51 44 50	99 46 50	North Mongolia	Khubs gul	Depression		Green shale	Lower-Middle Riphean	North Mongolia	Green shale			
486 Occur-3	Hydrothermal	Khubs gul	49 53 00	98 16 00	North Mongolia	Tuva-Mongol	Outcrop		Limestone	Lower Cambrian	North Mongolia	Limestone			
1475 Burenkhaan	Metasomatic	Khubs gul	49 49 00	99 55 00	North Mongolia	Near Khubs gul	Depression	Granosyenite	Marblized limestone	Lower Cambrian	North Mongolia	Marblized limestone			
1589 khuren asga uul	Hydrothermal	Zavkhan	48 08 00	96 23 00	North Mongolia	Ider	Depression	Granite			North Mongolia	Granite			
1569 khoujulin gol	Hydrothermal	Zavkhan	48 43 00	98 16 00	North Mongolia	Ider	Uplift	Gneissose granite			North Mongolia	Gneissose granite			
452 Occur-7	Hydrothermal	Khubs gul	48 57 00	99 07 00	North Mongolia	Ider	Uplift	Granite	Tuffaceous sediments	P -Zaun nuur series	North Mongolia	Granite			
453 Occur-1	Hydrothermal	Khubs gul	49 16 00	99 15 00	North Mongolia	Ider	Uplift	Granite			North Mongolia	Granite			



Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit type	Location			Geology					Deposit (1)					
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metabogenic province	Country rock	Alteration	Age of mineralization
1588	Burgasi	Contact metasomatic	Zavkhan	48 18 00	95 05 00	North Mongolia	Tsagaan olom	Dipression	Granosyenite	Dolomite	PR3 -Tsagaan olom suite	Lower Permian	North Mongolia	Dolomite		
1462	Agar	Hydrothermal	Khubsagul	49 42 00	98 07 00	North Mongolia	Near Khubsagul	Uplift	Granite			Middle Paleozoic	North Mongolia	Granite		
1545	Bulagin uber	Metasomatic	Khubsagul	50 16 00	99 32 00	North Mongolia	Near Khubsagul	Dipression	Granite	Limestone with alcauroilite bed	V3-E1 -Bayanzurkh suite	D2 -Tes complex	North Mongolia	Granite		
571	Dargia uul	Metasomatic	Khubsagul	49 33 00	98 41 00	North Mongolia	Tuva-Mongol	Uplift	Granite	Shale	R3 -Darkhad series lower and upper beds	Upper Carboniferous	North Mongolia	Granite		
1516	Uranginin	Magmatic	Khubsagul	50 56 00	98 21 00	North Mongolia	Tuva-Mongol	Anticlinorium	Granite, granite porphyry	Limestone, green shale, marble	PR3 -Muren and Okin suites	Lower-Middle Devonian	North Mongolia	Granite, granite porphyry		
3890	Khokh davaa	Skarn	Khubsagul	50 07 30	98 52 20	North Mongolia	Khubsagul	Dipression	Diorite	Limestone	V -Bayan zurkh series	Devonian	North Mongolia	Limestone		
3992	Occur-91	Gneiss	Khubsagul	49 21 30	99 20 25	North Mongolia	Ider	Dipression	Granite			P2 -Selenge complex	North Mongolia	Granite		
465	Occur-35	Hydrothermal-metasomatic	Zavkhan	48 45 00	98 26 00	North Mongolia	Ider	Uplift		Shale, dacite-rhyolite porphyry	PR3; P2		North Mongolia	Shale, dacite-rhyolite porphyry		
4618	Ubur khujirt gol	Hydrothermal	Khubsagul	50 13 10	98 39 50	North Mongolia	Near Khubsagul	Uplift		Meta-alcauroilite	R3 -Darkhad series		North Mongolia	Meta-alcauroilite		
99	Occur-8	Hydrothermal	Khubsagul	51 42 00	99 48 00	North Mongolia	Near Khubsagul	Dipression		Sandstone, limestone, shale	Vendian-Lower Cambrian		North Mongolia	Sandstone, limestone, shale		
1454	North Agalant	Contact metamorphism	Zavkhan	49 32 00	96 47 00	North Mongolia	Ider	Uplift	Granite	Marble	Upper Proterozoic	P2 -Selenge complex	North Mongolia	Granite		
1557	Shatain ovoo	Contact metasomatic	Zavkhan	48 43 00	96 11 00	North Mongolia	Ider	Uplift	Gneiss, granite-gneiss			Upper Proterozoic	North Mongolia	Gneiss, granite-gneiss		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit (2)				Previous survey					Reference	Remarks	
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit			Drilling
1588	Bugast	Skarn: 6000m x0.2m	Galkna	Arsenopyrite, pyrite	Pb-0.5%; Zn-0.04%		Geological mapping(1979)**					3576	
1462	Agar	Gresen zone:	Galkna	Sphalerite, hematite, pyrite, chalcopyrite	Cu-0.002%; Pb-0.002-1.0%		Geological mapping(1978)**					3045	
1545	Bulagin uber	Quartz vein: 70m x5m		Hematite, malachite, Magnetite, Pyrite	Zn-0.02%; Mo-0.0003%		Geological mapping(1984)*	841 samples		492.3m.cub	435.5m	3977	
571	Dargia uul	Gresen zone: 800m x350m			Nb-0.037%; Zn-0.035%; Pb-0.03%; Ag-0.025%		Geological mapping(1987)*	290 samples		1449.6m.cub		4428	
1516	Uvingimjin	Pegmatite: 19m x19m	Fergusonite, monazite, pyrochlore	Fluorite, galkna, sphalerite, chalcopyrite	Tb-0.1-0.2%; Nb-18.4%		Geological mapping(1964)***					1750	
3890	Khokh davaa	Skarn:2-6.2m			Au-0.005g/t		Prospecting work(1991)					4746	
3992	Oocur-91	Quartz vein: 12m x0.8m			Cu-0.155%; Ag-0.00002%		Geological mapping(1993)*					4839	
465	Oocur-35	Quartz vein: 15m x0.3m			Cu-0.02%; Pb-0.003%		Geological mapping(1976)**			36.3m.cub		2981	
4618	Ubur khujir gol	Quartz vein (zone): 100m x0.5m	Chalcopyrite	pyrite	Cu-0.01%; Pb-0.002%		Geological mapping(1992)*					4863	
99	Oocur-8	Quartz vein:			Sn-0.02-0.1%		Geological mapping(1968)**					1827	
1454	North Aagalant	Mineralization zone: 400m x26m	Sphalerite, galkna	Magnetite, malachite, azurite, hematite	Cu-0.15%; Zn-7%		Geological mapping(1981)**	219 samples		235.5m.cub		3592	
1557	Shatain ovoo	Skarn: 150m x6m	Sphalerite,	Galkna	Pb-0.085; Zn-0.18%		Geological mapping(1977)**			183.1m.cub	30.4m	2723	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

(8a/14)

No.	Deposit name	Deposit type	Location				Geology							Deposit (1)		
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock	Alteration	Age of mineralization
130	Ugedei uul	Contact metamorphism	Zavkhan	48 40 00	97 34 00	North Mongolia	Ider	Uplift	Granite	Sandstone, limestone conglomerate	Lower Cambrian	Lower Permian	North Mongolia	Sandstone, limestone, conglomerate		
105	Ikh uul	Hydrothermal-metasomatic	Zavkhan	48 59 00	97 51 00	North Mongolia	Ider	Depression	Granodiorite, diorite, granite, granite porphyry			PR3, P2-T1 - Selenge complex	North Mongolia	Granodiorite, diorite, granite, granite porphyry		
1464	Jinst-22	Metasomatic	Khubsagul	49 35 00	98 20 00	North Mongolia	Near Khubsagul	Uplift	Granite	Limestone, aleurolite	Lower Cambrian	Middle Paleozoic	North Mongolia	Granite		
3994	Tsagaan tolgoi	Hydrothermal	Khubsagul	49 40 25	99 39 30	North Mongolia	Khubsagul	Uplift	Granite			D2 - Tes complex	North Mongolia	Granite		
1470	Tsagaan tolgoi	Metasomatic	Khubsagul	49 39 00	99 40 00	North Mongolia	Near Khubsagul	Depression	Granite			D1-2 - Muren complex	North Mongolia	Granite		
3878	Khargana gol (47-44)	Hydrothermal	Khubsagul	50 12 23	98 53 00	North Mongolia	Khubsagul	Depression	Granite	Limestone	V - Bayan zurkh series lower subunit	Lower-Middle Jurassic	North Mongolia	Granite		
1478	Ulaan nuur	Hydrothermal	Khubsagul	49 39 00	99 20 00	North Mongolia	Near Khubsagul	Depression	Granites			D1-2 - Numreg complex, J	North Mongolia	Granites		
3995	Songinot uul	Greisen	Khubsagul	49 49 30	99 28 15	North Mongolia	Khubsagul		Granite	Shale, limestone	R3 - Darkhad series	Jurassic	North Mongolia	Granite		
1536	Altan ovoo	Hydrothermal	Khubsagul	50 17 00	98 55 00	North Mongolia	Tuva-Mongol	Anticlinorium	Granite	Shale	PR1 - Okin suite	Middle Devonian	North Mongolia	Granite		
1592	tsagduult uul	Hydrothermal-Metasomatic	Zavkhan	48 04 00	96 14 00	North Mongolia	Ider	Uplift	Granite, gneiss			Lower-Middle Devonian	North Mongolia	Granite, gneiss		
1461	Tsagaan uul	Metasomatic	Khubsagul	49 53 00	98 43 00	North Mongolia	Near khubsagul	Uplift		Meta-shale, limestone	Vendian-Lower Cambrian		North Mongolia	Meta-shale, limestone		
4698	Tsagaan nuur	Hydrothermal	Arkhangai	48 07 45	99 50 50	North Mongolia	Khangai	Outcrop	Granite	Tuffaceous conglomerate	R3 - Zavkhan series	Upper Riphean	North Mongolia	Granite		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No	Deposit name	Deposit (2)				Previous survey				Reference		Remarks	
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling		Report number
130	Ugedtei uul	Skarn: 100m x30m			Cu-0.8-1%; Ag-20g/t		Geological mapping(1981)**			5 digs		3576	
105	Ikh uul	Alteration zone: 250m x18.3m			Cu-0.02%; Ag-30g/t		Prospecting work(1979)			118m.cub		3122	
144	Jinsi-22	Quartz vein: 40m x2.3m	Cassiterite	Tungstenite	Sn-0.5%; WO3-0.08%		Geological mapping(1978)**	331 samples		507.1m.cub		3045	
3994	Tsagaan tolgoi	Quartz body: 170m x80m			Cu-0.0048%; Mo-0.025%		Geological mapping(1992)**					4839	
1479	Tsagaan tolgoi	Greisen zone: 100m x80m	Molybdenite	Chalcopyrite, sphalerite, galena, pyrite	Cu-0.02%; Mo-0.03%		Geological mapping(1973)**	75 samples		170.5m.cub	254m	2256	
3878	Khagana gol (47-4-II)	Greisen zone: 2.4x1.1km			Mo-0.2%; Pb-0.01%; Zn-0.1%		Prospecting work(1988)					4746	
1478	Ulaan nuur	Alteration zone: 0.2 sq.km	Molybdenite	Sphalerite, galena, hematite, pyrite, magnetite	Pb-0.01%; Zn-0.02%; Mo-0.006%		Geological mapping(1973)**			475m.cub	140m	2256	
3995	Songmot uul	Greisen zone: 300m			Cu-0.01%; Mo-0.005%		Geological mapping(1992)**			137.7m.cub		4839	
1536	Altan ovoo	Granite stock: 350m x290m	Molybdenite	Cassiterite, tantalum	Mo-0.016%; Ta-0.09%; Nb-0.009%	Mo-4158t; Ta-23388t; Nb-2338t	Geological mapping(1982)**			169.6m.cub		3781	
1592	tsagduul uul	Greisen zone: 500m x100m			Ag-4g/t; Y-0.015; La-0.01%; Mo-0.03%		Geological mapping(1981)**					3576	
1461	Tsagaan uul	Alteration zone: 1500m x1000m	Scheelite		W-0.06%; Mo-0.009%		Geological mapping(1978)**	1698 samples		418.9m.cub	107m	1966, 3045	
4698	Tsagaan nuur	Quartz vein: 80m x0.4m			W-0.94%; Cu-0.07%		Geological mapping(1981)**			1 dig		3684	



Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit type	Location			Geology							Deposit (1)			
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalegic province	Country rock	Alleration	Age of mineralization
1468	Khuderiin	Metasomatic	Khubsgul	49 38 00	99 41 00	North Mongolia	Near Khubsgul	Depression	Granite	Carbonate terrane	R3 -Ukhaa tolgoi and Arsaï suite	PZ3 -Selenge complex	North Mongolia	Granite		
1603	Terkhiin tsagaan nuur	Hydrothermal	Arkhangai	48 07 45	99 30 50	North Mongolia	Ider	Uplift	Granite	Tuffaceous conglomerate	R3 -Zavkhan series	Upper Riphean	North Mongolia	Granite		
1511	Ilh bekhiriin gozgor	Hydrothermal	Khubsgul	51 42 00	99 49 00	North Mongolia	Near khubsgul	Depression		Sandstone, shale	PR3 -Okm suite		North Mongolia	Sandstone, shale		
100	Occur-25	Hydrothermal	Khubsgul	51 26 00	99 54 00	North Mongolia	Near Khubsgul	Depression	Granite	Metamorphic rocks	Vendian-Lower Cambrian	Lower Paleozoic	North Mongolia	Granite		
451	Occur-21	Hydrothermal	Khubsgul	48 44 00	99 12 00	North Mongolia	Ider	Uplift	Granite			Lower Paleozoic	North Mongolia	Granite		
466	Bugat gol	Metasomatic	Khubsgul	49 16 00	98 45 00	North Mongolia	Ider	Depression	Granite porphyry	Marbled limestone	Vendian-Lower Cambrian	Lower-Upper Permian	North Mongolia	Granite porphyry		
1452	Tsakhir tolgoi	Metamorphic	Zavkhan	49 36 00	96 09 00	North Mongolia	Ider	Uplift		Shale, sandstone	PR3 -Burgas gol suite		North Mongolia	Shale, sandstone		
1482	Tsagaan nuruu	Contact metasomatic	Khubsgul	49 31 00	99 44 00	North Mongolia	Near Khubsgul	Depression	Granite	Limestone	E1 -Khug series	D1-2 -Numeg complex	North Mongolia	Granite		
1473	Khuren chuluut	Metamorphic	Khubsgul	49 30 00	99 31 00	North Mongolia	Near Khubsgul	Depression		Tuff, shale, sandstone	E1 -Sarkhai suite		North Mongolia	Tuff, shale, sandstone		
1469	Ore No107	Metamorphic	Khubsgul	49 56 00	99 31 00	North Mongolia	Near Khubsgul	Depression		Shale, sandstone with thin dolomite beds	R3-V -Darkhad series		North Mongolia	Shale, sandstone with thin dolomite beds		
5346	Khundin davaa	Hydrothermal	Zavkhan	48 07 00	96 00 00	North Mongolia	Ider	Uplift		Porphyritic	D1 -Bor nuur series		North Mongolia	Porphyrite		
1514	Kharon gol	Hydrothermal	Khubsgul	51 25 00	99 56 00	North Mongolia	Near Khubsgul	Depression		Quartzite, limestone	PR3 -Khordai series		North Mongolia	Quartzite, limestone		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia (9b/14)

No.	Deposit name	Deposit (?)				Previous survey					Reference	Remarks	
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit			Drilling
1468	Khuderin	Alteration zone: 3km	Tungstenite	Pyrite	Mo-0.3%; W-0.35; Ag-3.8g/t		Prospecting work(1989)	654 samples	4 digs			4379	
1603	Terkhim tsagaan nuur	Quartz vein: 80m x40m	Tungstenite		Zn-0.014%; Au-0.1g/t; Ag-4g/t		Geological mapping(1982)**		26.5m.cub			3684	
1513	Ikh bekhirin gozgor	Quartz vein: 10m x0.1m	Limonite, malachite, galena		Zn-0.28%; Ca-1%; W-0.06%		Geological mapping(1968)**	400 samples				1827	
100	Occur-25	Quartz-tourmaline vein: 3km			Cu-0.1%; Mo-0.025%		Geological mapping(1968)**					1827	
451	Occur-21	Pegmatite: 70m x0.8m			Cu-0.002%; W-0.01%		Geological mapping(1977)**					2651	
466	Bugat gol	Skarn: 15m x2m			W-0.02%; Zn-0.02%		Geological mapping(1976)**		95.9m.cub			2981	
1452	Tsakhir tolgoi	Quartzite lenticular body: 300m x50m	Magnetite, hematite		Cu-0.02%; Zn-0.05%		Geological mapping(1981)**		141.9m.cub			3592	
1482	Tsagaan nuruu	Skarn: 40m x20m	Magnetite		Magnetite-40%		Geological mapping(1973)**					2256	
1473	Khuren chaluut	Quartz-hematite bed: 400m x12m	Magnetite, hematite				Geological mapping(1969)**		2 digs			1914	
1469	Orc No107	Iron lenticular body: 1000m x20m	Magnetite, hematite	Limonite	Fe-58.36%; Mn-0.04%; V-0.01%		Geological mapping(1968)**; (1982)*		128m.cub(1982)			1914, 3642	
5346	Khurdim davaa	Magnetite vein: 40m x0.5m	Magnetite				Geological mapping(1959)*****					1420	
1514	Khoron gol		Magnetite	Chalcopyrite, malachite, pyrite	MgO-2.08%; FeO-24.87%		Geological mapping(1946)*****					486	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit type	Location			Geology					Deposit (1)					
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock	Alteration	Age of mineralization
146	khaliun usni gol	Contact metamorphism	Khubsugul	48 33 37	99 55 15	North Mongolia	Ider	Uplift		Marblized limestone, gneiss	Lower Proterozoic	North Mongolia	Marblized limestone, gneiss			
1503	Urtiin under	Hydrothermal	Zavkhan	48 20 00	97 11 00	North Mongolia	Ider	Uplift	Granodiorite		Lower Paleozoic	North Mongolia	Granodiorite			
147	Terhin gol	Hydrothermal	Arkhangai	48 05 00	99 18 00	North Mongolia	Ider	Uplift	Anorthosite		Lower Paleozoic	North Mongolia	Anorthosite			
1562	Telmen	Hydrothermal	Zavkhan	48 41 00	97 40 00	North Mongolia	Ider	Uplift		Limestone	Lower Cambrian	North Mongolia	Limestone			
1564	Tosontsengel	Hydrothermal	Zavkhan	48 48 00	98 04 00	North Mongolia	Ider	Uplift		Limestone	Lower Cambrian	North Mongolia	Limestone			
1560	Soriant uul	Hydrothermal	Zavkhan	48 41 00	97 32 00	North Mongolia	Ider	Uplift		Limestone	Lower Cambrian	North Mongolia	Limestone			
144	Saltari	Sedimentary-metamorphogenic	Arkhangai	48 18 06	99 49 15	North Mongolia	Ider	Uplift	Amphibolite		Lower Paleozoic	North Mongolia	Amphibolite			
1605	Ultim gol	Hydrothermal	Arkhangai	48 00 00	99 50 20	Mongol-Ubur baikal	Khangai	Dpression		Schizitized sandstone	R2 -Zagzin series	North Mongolia	Schizitized sandstone			
1537	No57	Hydrothermal	Khubsugul	50 17 00	98 57 00	North Mongolia	Tuva-Mongol	Uplift	Granite	Shale	PR3 -Okin suite	Tuva-Mongol	Granite			
1463	No33	Metasomatic	Khubsugul	49 38 00	98 45 00	North Mongolia	Near Khubsugul	Uplift	Granite	Meta-sedimentary rocks	Vendian-Lower Cambrian	North Mongolia	Meta-sedimentary rocks			
1515	No25	Hydrothermal	Khubsugul	51 01 00	98 53 00	North Mongolia	Tuva-Mongol	Uplift		Shale	PR3 -Okin suite	North Mongolia	Shale			
1563	No22	Hydrothermal	Zavkhan	48 55 00	98 50 00	North Mongolia	Ider	Uplift	Intrusion?	Efusive rocks	Lower Permian	North Mongolia	Intrusion?			

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia (10b/14)

No.	Deposit name	Deposit (2)							Previous survey					Reference	Remarks
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number			
146	Khalaun usnii gol	Skarn	Magnetite	Hematite	FeO-11.25%; Cu-0.005%				Geological mapping(1982)**			32.6m.cub		3684	
1593	Urtiin under	Magnetite vein: 120m x1.0m	Magnetite	Hematite					Geological mapping(1965)****					1755, 2218	
147	Terkhiin gol	Magnetite vein: 100m x1.5m	Magnetite		Cu-0.06%; Zn-0.05%; Fe-29.64%				Geological mapping(1982)**					3684	
1562	Teimen	Syderite vein:100m x3m	Siderite		Cu-0.02%; Zn-0.01%; Fe-10%				Geological mapping(1977)**					2218, 1751	
1564	Tosontsengel	Syderite lenticular body: 10m x3.0m	Siderite		Siderite-3-10%				Geological mapping(1977)**					1751, 2981	
1560	Sortant uul	Skarn: 1000sq.m	Siderite		Mn-0.1%; Zn-0.01%; Cu-0.02%				Geological mapping(1976)**	10 samples				2218, 1751	
144	Sabart	Shale lenticular body:70m x7m	Magnetite		Cu-0.003%; Fe-0.6%				Geological mapping(1982)**					3684	
1605	Urtiin gol	Magnetite lenticular body: 50m x15m	Magnetite		Cu-0.01%; FeO-8.1%				Geological mapping(1982)**					3684	
1537	No57	Shale beds:10-15m	Magnetite		Fe-14.2%				Geological mapping(1964)****					1756	
1463	No33	Quartzite bed: 50m x1m	Magnetite, hematite	Chalcopyrite	FeO-40%				Geological mapping(1978)**					3045	
1515	No25	Shale bed:100m	Magnetite		Magnetic-20%				Geological mapping(1964)****					1756	
1563	No22	Magnetite lenticular body: 20m x5m	Magnetite		Magnetic-4.8%				Geological mapping(1974)**					2981, 1751	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit type	Location			Geology						Deposit (1)			Age of mineralization		
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metalogenic province	Country rock		Alteration	
1460	No11	Hydrothermal	Khubsugul	49 25 00	97 24 00	North Mongolia	Near Khubsugul		Uplift	Granite			P2-T1 -Selenge complex	North Mongolia	Granite		
1459	No7	Contact metamorphic	Khubsugul	49 41 00	97 39 00	North Mongolia	Near Khubsugul		Uplift	Granosyenitic	Limestone	Upper Proterozoic	P2-T1 -Selenge complex	North Mongolia	Granosyenitic		
1579	Nergui	Magmatic	Khubsugul	48 47 00	99 58 00	North Mongolia	Ider		Uplift	Gabbro, diorite			Middle Paleozoic	Tuva-Mongol	Gabbro, diorite		
4696	Musi uul	Hydrothermal	Arkhangai	48 07 15	99 21 00	North Mongolia	Khangai		Outcrop	Anorthositic		Upper Proterozoic		Tarbagatai	Anorthositic		Proterozoic
1455	No.30	Metasomatic	Zavkhan	49 31 00	96 43 00	North Mongolia	Ider		Uplift	Granite	Marble	Upper Proterozoic	P2 -Numreg complex	North Mongolia	Granite		Upper Permian
3930	Occur-5	Hydrothermal-metasomatic	Khubsugul	51 52 00	99 43 00	North Mongolia	Khubsugul		Depression		Green shale, serpentinitic	R1-2, V-E1		North Mongolia	Green shale, serpentinitic		Lower-Middle Devonian
1595	Ider	Contact metamorphic	Zavkhan	48 15 00	97 20 00	North Mongolia	Ider		Uplift	Granite	Limestone	Upper Proterozoic		North Mongolia	Granite		
1552	Jimsen gol	Magmatic	Zavkhan	49 15 00	96 50 00	North Mongolia	Ider		Uplift	Granite	Gneiss, serpentinitic	Upper Proterozoic	Lower Cambrian	North Mongolia	Granite		Upper Proterozoic
148	Jargalant	Hydrothermal	Arkhangai	48 34 40	99 14 45	North Mongolia	Ider		Uplift	Anorthositic, gneiss			Lower Paleozoic	North Mongolia	Anorthositic, gneiss		
2212	Upper Saibartai	Hydrothermal	Arkhangai	48 21 22	99 49 15	North Mongolia	Ider		Uplift	Granitic gneiss			Lower Proterozoic	North Mongolia	Granitic gneiss		
1601	Darkhan ulaan davaa	Hydrothermal	Arkhangai	48 09 18	99 20 40	North Mongolia	Ider		Uplift	Gabbro-anorthositic, gabbro-diorite			Lower Proterozoic	North Mongolia	Gabbro-anorthositic, gabbro-diorite		
1542	Beltsiin gol	Hydrothermal	Khubsugul	50 26 00	99 20 00	North Mongolia	Near Khubsugul		Depression	Dioritic			Middle Carboniferous	North Mongolia	Dioritic		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia (11b/14)

No.	Deposit name	Deposit (2)				Previous survey					Reference	Remarks		
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit			Drilling	Report number
1460	No11	Quartz vein:	Magnetite						Geological mapping(1978)**				3041	
1459	No7	Skarn: 30m x5m	Magnetite, hematite	Garnet	Zn-0.03%; Mn-0.3%; Mo-0.05%			Geological mapping(1979)**					3041	
1579	Nergui	Pegmatite: 10m wide	Magnetite		Cu-0.1%; Fe-1.0%			Prospecting work(1965)					1812	
4696	Must uul	Magnetite zone: 50m x20m	Magnetite	Iron oxhd. magnetite, pyrites	Fe-21.36%; Cu-0.002%, Mn-0.02%			Geological mapping(1982)**					3684, 1831	
1455	Magnetite oval No30	Magnetite lenticular body: 60m x12m	Magnetite	Fluorite	Ca-F2-4.37%; Fe-60%			Geological mapping(1981)**		51.6m.cub			3592	
3930	Occur-5	Quartz vein: 100m x10m	Siderite, hematite	Malachite, azurite, covellite	Cu-0.03%; Zn-0.01%; Cr-0.15%			Prospecting work(1993)*		3 digs			4770	
1595	Ider	Skarn: 10m x10m	Magnetite	Azurite, cuprite	Zn-0.2%; Cu-0.02%			Geological mapping(1964)***					1755	
1552	Jinsen gol	Magnetite lenticular body: 40m x2.7m	Magnetite, hematite	Chromite, malachite, chalcopyrite	Fe-49.0%			Geological mapping(1977)**	13 samples	326.7m.cub			2723	
148	Jargalan	Quartz vein: 10m x3m	Hematite		Fe-24.24%; Cu-0.003%			Geological mapping(1982)**					3684	
2212	Upper Saibarta	Hematite lenticular body: 20m x3m	hematite		Fe2O3- 10.91%			Geological mapping(1981)**					3684	
1601	Darkhan ulaan davaa	Magnetite vein: 2m x60m	Magnetite		Fe-19.23%; Cu-0.003%			Geological mapping(1982)**		3 digs			3684	
1542	Beltesuin gol	Magnetite vein: 20m x0.8m	Magnetite					Geological mapping(1953)**					609	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit type	Location			Geology							Deposit (1)			
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metagenetic province	Country rock	Alteration	Age of mineralization
145	Bayasgalan uul	Hydrothermal	Arkhangai	48 00 48	99 25 55	North Mongolia	Ider	Uplift	Anorthosite			Lower Proterozoic	North Mongolia	Anorthositic		
4695	Bayan uul	Hydrothermal	Arkhangai	48 09 18	99 20 40	North Mongolia	Khangai	Outcrop	Gabbro-anorthositic			Lower Proterozoic	North Mongolia	Gabbro-anorthositic		Lower Proterozoic
1480	West Mandal uul	Hydrothermal	Khubsugul	49 37 00	99 21 00	North Mongolia	Near Khubsugul	Dipression	Acid volcanic rocks		Pl-2 - Bugsein gol suite		North Mongolia	Acid volcanic rocks		Upper Permian
3905	Altargana gol	Hydrothermal	Khubsugul	50 18 45	98 55 00	North Mongolia	Khubsugul	Dipression	Granitic	Green shale	Riphean	Middle Devonian	North Mongolia	Green shale		
1729	Tsagaan khonkh	Metasomatic	Arkhangai	48 22 00	99 50 00	North Mongolia	Ider	Uplift	Granitic, quartz porphyry			Middle Riphean	North Mongolia	Granite, quartz porphyry		
175	Khukh chuluut	Magmatic	Khubsugul	50 00 00	99 58 00	North Mongolia	Near Khubsugul	Dipression	Carbonate and metamorphic rocks		V-E1 - Khesen and Khordul suite; R3 - Darkhad series		North Mongolia	Carbonate and metamorphic rocks		
1549	Khagin nuur	Magmatic	Khubsugul	50 14 00	99 35 00	North Mongolia	Near Khubsugul	Dipression	Nepheline syenite			Lower-Middle Devonian	North Mongolia	Nepheline syenite		
1544	Serkh uul	Magmatic	Khubsugul	50 23 00	99 35 00	North Mongolia	Near Khubsugul	Dipression	Syenite	Limestone	V-E1 - Bayanzurkh suite	Lower Permian-Lower Triassic	North Mongolia	Syenite		
1550	Wesi Man Khan	Magmatic	Khubsugul	50 06 00	99 55 00	North Mongolia	Near Khubsugul	Dipression	Nepheline syenite			D1-2 - Ujig gol massive	North Mongolia	Nepheline syenite		
1522	Dund khem gol	Magmatic	Khubsugul	50 43 00	99 49 00	North Mongolia	Near Khubsugul	Dipression	Alkaline granite			Middle Carboniferous	North Mongolia	Alkaline granite		
178	Burenkhaan	Magmatic	Khubsugul	49 50 00	99 58 00	North Mongolia	Near Khubsugul	Dipression	Limestone		V-E1 - Khesen and Khordul suite		North Mongolia	Limestone		
1477	Marganese No.26	Sedimentary	Khubsugul	49 42 00	99 58 00	North Mongolia	Near Khubsugul	Dipression	Clay schist, aluroilite		E1 - Khordul suite		North Mongolia	Clay schist, aluroilite		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No	Deposit name	Deposit (2)							Previous survey				Reference	Remarks
		Morphology	Ore mineral	Cgangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number		
145	Bayasgalan uul	Magnetite lenticular body: 10m x1m	magnetite	Hematite, iron hydro-oxide	Fe-14,08%; Cu-0,005%		Geological mapping(1982)**						3684	
4695	Bayan uul	Magnetite vein: 100m x15m	Magnetite	Hematite, iron oxide	Fe-19,23%; Cu-0,005%		Geological mapping(1982)**						3684	
1480	West Mandal uul	Magnetite vein: 5m x0,2m	Magnetite	Fe			Geological mapping(1973)**						2256	
3905	Ahargana gol	Quartzite body: 1600m x40m			W-0,05%		Prospecting work(1991)						4746	
1729	Tsagaan khonkh	Silicification zone:2000m x250m	Bismuthine		Cu-0,03%; Ag-18,6g/t; Au-0,2g/t		Geological mapping(1982)**			573,2m.cub			3684	
175	Khukh chuluut	Stock: 1,6 sq.km	Nepheline		Nepheline-20%		Geological mapping(1982)*						3642	
1549	Khagim nuur	Stock: 0,9 sq.km	Foyaitc		Pb-0,002%; Fe1,21%		Geological mapping(1984)*			5634,8m.cub	315,4m		3977	
1544	Serkh uul	Stock: 2,75 sq.km	Foyaitc, Juvite		Al-22,3%		Geological mapping(1985)*						3977	
1550	West Monkhan	Stock: 25 sq.km	Nepheline	Topaz	Al		Geological mapping(1968)**						1914	
1522	Dund khem gol	Foyaitc zone: 3000m x200m	Foyaitc		Al-20,9%; Nb-0,02%	Al-33,7 Million ton	Geological mapping(1965)****; (1987)*	514 samples(1987)		71,8m.cub(1987)			1756, 4286	
178	Burenkhaan	Syenite stock: 6,2 sq.km	Nepheline		Al-20,9%		Geological mapping(1982)*						3642	
1477	Marganess No26	Alteration zone: 2600m x98m	Psilomelane		Mn-8,8%; Ni-0,005%		Geological mapping(1980)*; (1981)*			2.digs(1980); 393m.cub(1981)	284m(1981)		3642, 4040	



Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

(13a/14)

No.	Deposit name	Deposit type	Location			Geology							Deposit (1)		
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metagenetic province	Country rock	Alteration
1591	Khag nuur	Sedimentary	Zavkhan	48 04 00	96 30 00	North Mongolia	Ider	Dipression		Sandstone, aleurolite	Lower Cambrian		North Mongolia	Sandstone, aleurolite	
1566	khetsini	Hydrothermal-metasomatic	Khubegul	50 04 00	99 25 00	North Mongolia	Near Khubegul	Dipression	Granite	Limestone	E1 -Mijnj suitc	Lower-Middle Devonian	North Mongolia	Granite	
1458	Baga ikh jamaat	Hydrothermal	Zavkhan	49 46 00	97 06 00	North Mongolia	Near khubegul	Uplift		Limestone	Vendian-Lower Cambrian		North Mongolia	Limestone	
3932 IV-4)	Occur. 3 (8-A-	Hydrothermal	Khubegul	51 52 35	99 41 40	North Mongolia	Khubegul	Dipression		Serpentine, carbonate rocks	Vendian		North Mongolia	Serpentine, carbonate rocks	
1467 No.38a	Alluvial	Alluvial	Khubegul	49 24 00	98 03 00	North Mongolia	Near Khubegul			Clay sand	OIV		North Mongolia	Clay sand	
1466 No.25a	Alluvial	Alluvial	Khubegul	49 29 00	98 22 00	North Mongolia	Near Khubegul			Sand, clay	OIV		North Mongolia	Sand, clay	
1465 No.18a	Alluvial-proluvial	Alluvial-proluvial	Khubegul	49 33 00	98 24 00	North Mongolia	Near Khubegul	Uplift		Clay sand	QIII-IV		North Mongolia	Clay sand	
1485 Shine-ider	Magmatic	Magmatic	Khubegul	48 55 00	99 40 00	North Mongolia	Ider	Uplift	Gneiss, migmatite, amphibolite			Proterozoic	North Mongolia	Gneiss, migmatite, amphibolite	
1539 Tsokhio	Hydrothermal	Hydrothermal	Khubegul	50 36 00	99 19 00	North Mongolia	Near Khubegul	Dipression		Limestone	Lower Cambrian		North Mongolia	Limestone	
1476 No.21	Sedimentary	Sedimentary	Khubegul	49 46 00	99 53 00	North Mongolia	Near khubegul	Dipression		Limestone with shale beds	E1 -Kbordul suite		North Mongolia	Limestone with shale beds	
1474 Vanadium (No 18)	Sedimentary	Sedimentary	khubegul	49 49 50	99 50 00	North Mongolia	Near Khubegul	Dipression	Granite, granodiorite	Limestone, carbonate rocks	V-E1 -Khesa suite; E1 -Kbordul suite	P22	North Mongolia	Limestone, carbonate rocks	
1483 Buyant (No.83)	Sedimentary	Sedimentary	Khubegul	49 44 00	99 47 00	North Mongolia	Near khubegul	Dipression	Granite	Dolomite, limestone, aleurolite, shale	V-E1 -Khesa suite	Upper Paleozoic	North Mongolia	Dolomite, limestone, aleurolite, shale	

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia (13b/14)

No.	Deposit name	Deposit (2)					Previous survey					Reference		Remarks
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number		
1591	Khag nuur	Manganese bed: 2000m x1000m			Mn-36.98%	Mn-3,4 Million ton	Geological mapping(1981)**			120m.cub	37m	3576		
1566	kheteini	Mineralization zone: 25m x10m	(Cytolite)?		Li-0.01%; Nb-0.02%;La-0.03%		Geological mapping(1969)**					1914		
1458	Baga ikh jamaat	Pegmatite: 5m	Spodumene		Li-1%; Be-0.3%; Nb-0.05%		Geological mapping(1979)**					3041		
3932	Occur-3 (8-A; V-4)	Serpentine bed:			Ni-1%; Cr-0.2%; Co-0.007%; Cu-0.005%		Geological mapping(1993)*					4770		
1467	No.38a	Ilmenite bed: 9000m x3000m	Ilmenite		Ilmenite-2800g/m.cub		Geological mapping(1977)**				262.3m	3045		
1466	No 25a	Ilmenite bed: 520m	Ilmenite		Ilmenite-7500g/m.cub		Geological mapping(1977)**				313,5m	3045		
1465	No 18a	Ilmenite bed: 450m	Ilmenite		Ilmenite-2200g/m.cub		Geological mapping(1977)**				356,8m	3045		
1485	Shane sider	Pegmatite dyke: 90m x4m	Beryl		Be-		Prospecting work(1966)					1814, 2283		
1539	Tsookho	Quartz-calcite vein: 25m x0,08m			V-3,4%; Cr-2,5%; As-6,9%		Geological mapping(1933)*; (1953)**			130m.cub(1953)		609, 44		
1476	No21	Silicification zone:1500m x200m			V-0,6%; Mo-0,02%; Cu-0,01%		Geological mapping(1982)*			390m.cub		3642		
1474	Vanadium (No 18)	Silicification bed:1800m x81m			V-0,17%	V-14260,4t	Geological mapping(1982)*			1677m.cub		3642, 4040		
1483	Buyant (No83)	Vanadium bearing shale bed: 800m x70m	Vanadium	Phosphoric	V-0,23%; Ba-1%; Mo-0,002%		Geological mapping(1982)*			787,5m.cub		3642		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No.	Deposit name	Deposit type	Location			Geology							Deposit (1)			
			Province	Latitude	Longitude	Tectonic zone	Formation	Structure	Igneous (plutonic) rocks	Sedimentary and volcanic rocks	Age of sedimentary rocks	Age of igneous rocks	Metagenic province	Country rock	Alteration	Age of mineralization
48	Mungesh	Hydrothermal-metasomatic	Khubsugul	50 37.00	99 24 00	North Mongolia	Near Khubsugul	Graben		Limestone	Upper Cambrian		North Mongolia	Limestone		
5003	Tsagaan chuluut	Contact metasomatic	Khubsugul	50 21 00	99 46 00	North Mongolia	Near khubsugul	Dipression	Granite	Limestone, marble	E1 -Khordul suite	Middle Devonian	North Mongolia	Limestone, marble		Middle Devonian
3891	Alaan boom	Hydrothermal	Khubsugul	50 17.32	98 56 00	North Mongolia	Khubsugul	Uplift	Leucocratic granite	Shale	Middle Riphean	Lower-Middle Jurassic	North Mongolia	Leucocratic granite		

Table A-3 List of mineral occurrences, and geochemical anomalies in western part of the central-north area, Mongolia

No	Deposit name	Deposit (2)		Previous survey							Remarks		
		Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling		Report number	
48	Mungesh	Quartz-calcite vein		V-		Geological mapping(1933)						44	
5003	Tsagaan chuluut	Skarn: 0.3m wide	Scheelite	W-0.1%		Geological mapping(1986)*						3977	
3891	Altan boom	Ore body 300m x200m		Ta-	Ta-1700t; Nb-1610t	Geological mapping(1991)*						4746	

## Previous survey (geology)

"-1:10 000 scale prospecting work; \*-1:50 000 scale geological mapping; \*\*-1:200 000 scale geological mapping; \*\*\*-1:500 000 scale geological mapping; \*\*\*\*-1:1 000 000 scale geological mapping

Table A-4 List of topographic maps of the survey area

Index No.	Map No.	Original title of the map (in Mongolian or Russian)	Scale	Published Year
1-1	M-47-A	Баянзүрх	1:500,000	unknown
1-2	M-47-B	Тосонцэнгэл	1:500,000	unknown
1-3	M-47-Б	Хөвсгөлдэлай	1:500,000	unknown
1-4	M-47-Г	Мөрөн	1:500,000	unknown
1-5	M-48-A	Слюдянкка	1:500,000	unknown
1-6	M-48-B	Булган	1:500,000	unknown
1-7	M-47-69	Г. Хуху Дэбсэг Обо	1:100,000	1948
1-8	M-47-81	Нарани Обо	1:100,000	1948
1-9	M-47-93	Мурэн	1:100,000	1948
1-10	M-47-119	Цэцэрлиг Сомон	1:100,000	1949
1-11	M-47-120	Озшарга-Нур	1:100,000	1949
1-12	M-48-61	Аригыйи Дуганг	1:100,000	1948
1-13	M-48-62	Цулун	1:100,000	1949
1-14	M-48-74	Тэшиг Сомон	1:100,000	1948
1-15	M-48-100	Цонхолон Сомон	1:100,000	1947
1-16	M-48-101	Хангал Сонон	1:100,000	1948
1-17	M-48-109	Нарингин Хурэ	1:100,000	1949
1-18	M-48-110	Г. Аршантуин Обо	1:100,000	1949
1-19	M-48-111	Булганы Нуруу	1:100,000	unknown
1-20	M-48-112	Булган	1:100,000	1942
1-21	M-48-113	Г. Ундур-Ула	1:100,000	1948
1-22	M-48-121	Оз. Ихэ Цаган-Нур	1:100,000	1949
1-23	M-48-134	Улцзэйтү Сомон	1:100,000	1949
1-24	M-48-135	Абзог Сомон	1:100,000	1947
1-25	M-48-137	Зуунтуруу Бригад	1:100,000	unknown

Table A-5 List of geological maps (with the reports) of the survey area

Index No.	Report No.	Original title of the map (in Mongolian or Russian)	Name of the area (in English)	Scale	Published Year	Remarks*
2-1	non.	Geological Map of Mongolia scale 1:1,000,000	Geological Map of Mongolia	1:1,000,000	unknown	2 pieces (M-47, M-48)
2-2	non.	Геологическая Карта Северной Монголии	Geological Map of Northern Mongolia	1:500,000	1987	1 piece
2-3	non.	Карта Полезных Ископаемых Центральноей И Восточной Монглии	Mineral Map of Mongolia	1:500,000	1986	6 pieces (M-47-A · Б, -B, -Г, M-48-A, -B)
2-4	402	Геологическая Карта Района Реки Желтуры/Ацзаргайн-гол/Селенгински й Аймак М.Н.Р.	Z(h)elter river	1:200,000	1943	1 piece
2-5	1725	Геологическая Карта Карта Полезных Ископаемых	South Khubsgul	1:200,000	1967	2 pieces (M-47-XVII)
2-6	1811	Геологическая Карта Карта Полезных Ископаемых	Selenge river	1:200,000	1968	2 pieces
2-7	1820	Геологическая Карта И Карта Полезных Ископаемых	Khangai and Orkhontuul	1:200,000	unknown	2 pieces (M-48-XXVII)
2-8	1821	Геологическая Карта	Southeast part of Khubsgul	1:200,000	1967	1 piece (M-47-58, -59, -70, -71)
2-9	1960	Карта Полезных Ископаемых: Бассейна Нижнего Течения Р. Толы	Tuul river	1:200,000	1972	2 pieces (M-48-XXVII, -XXXIII, -XXXIV)
2-10	2035	Геологическая Карта И Карта Полезных Ископаемых	Bulgan	1:200,000	1972	1 piece (M-48-XX, -XXVI, -XXVII, -XXXII, -XXXIII)
2-11	2043	Геологическая Карта	Orkhon-Selenge river	1:200,000	1974	2 pieces (M-47-XXX, M-48-XXV, -XXVI)
2-12	2256	Карта Полезных Ископаемых	Muren and Tsetserleg	1:200,000	1975	4 pieces (M-47-XXXII, -XXXIII, -XXXIV, -XXXV)
2-13	2283	Геологическая Карта И Карта Полезных Ископаемых	North Khangai	1:200,000	1974	1 piece (M-47-XXVIII, -XXIX, XXXV, -XXXVI, M-48-XXXI)
2-14	2575	Геологическая Карта Соемешенная С Картой Полезных Ископаемых	Dashinchilen	1:200,000	1976	6 pieces (L-48-III, M-48-XXXII, -XXXIII, Section)
2-15	2660	Геологическая Карта И Карта Полезных Ископаемых	Muren	1:200,000	1976	5 pieces (M-47-XVII, -XXIII, -XXIV)
2-16	2765	Геологическая Карта И Карта Полезных Ископаемых	Ulzeit	1:200,000	1978	4 pieces (M-48-XXX I, -XXX II)
2-17	2982	Геологическая Карта И Карта Полезных Ископаемых	Tarvagatai	1:200,000	1979	3 pieces (M-48-XIX)
2-18	3156	Геологическая Карта И Карта Полезных Ископаемых	Teshig	1:200,000	unknown	1 piece (M-48-XX, -XIV)
2-19	3228	Геологическая Карта	Under-ulaan	1:200,000	1981	1 piece (M-47-XXXV, -XXXVI)
2-20	3624	Геологическая Карта И Карта Полезных Ископаемых	Zhelter	1:200,000	1982	5 pieces (M-48-XV, -XVI, -XXI, -XXII)
2-21	4838	Геологическая Карта, Ашигт Малтмал, Туун Ий Тархалтын Зуй Тогтлын Зураг	Erdenebulgan	1:200,000	unknown	9 pieces (M-47-XVII, -XVIII, -XXXIV); in Mongolian
2-22	4862	Геологическая Карта, Ашигт Малтмал, Туун Ий Тархалтын Зуй Тогтлын Зураг	Tavt	1:200,000	unknown	8 pieces (M-48-VII, -X III); in Mongolian
2-23	5171	Геологическая Карта, Ашигт Малтмал, Туун Ий Тархалтын Зуй Тогтлын Зураг	Tsagaan uur	1:200,000	1998	7 pieces (M-47-V-XI, -VI · X II); in Mongolian

\* Descriptions of all the maps are written in Russian, except for denoted ones.

Table A-5 List of geological maps (with the reports) of the survey area

Index No.	Report No.	Original title of the map (in Mongolian or Russian)	Name of the area (in English)	Scale of the map	Published Year	Remarks*
2-24	63	а (2) В торичные Ореолы Рассеяния (Cu, Ba, Zr, Mo) (3) В торичные Ореолы Рассеяния (Zn, Pb, Y, W, Li)	Mogoin gol	1:50,000	unknown	3 pieces (M-48-109-B)
2-25	1507	Схематическая Геологическая Карта а: Водораздела Рек Бургэлту-голи Бадарый и-гол etc.	Egingol	1:50,000	1961	6 pieces
2-26	1612	Геологическая Карта: Дзалаатуинског о Ультраосновного Массива	Dzalaat	1:50,000/1:2,000	1960/1964	3 pieces
2-27	2924	Схематическая Геологическая Карта		1:50,000	unknown	1 piece (M-48-109-B)
2-28	3538	Схематическая Геологическая Карта И Полезных Ископаемых: Района Работ Эрдэнэтинской Поисковой Партии №.11	Erdenet	1:50,000	1982	1 piece
2-29	3642	(1) Геологическая Карта (2) Карта Полезных Ископаемых И Закон омерностей Их Размещения	Burenkhan	1:50,000	1983	10 pieces (M-47-68-B, -Г; -80-A, -Б; -81-A; -80-B & -81-B)
2-30	3649	(1) Геологическая Карта (2) Карта Полезных Ископаемых И Закон омерностей Их Размещения МГИ ГРП МНР Муренская Геологическая Экспедиция, Эгэйн-гольская №.10: Геологическая Карта, Карта Полезных Ископаемых И Закономерностей Их Размещения	Khatgal	1:50,000	1982	10 pieces (M-47-57-B, -69-A, -Б, -В)
2-31	3976	Совместная Монголо-Советская, Геологическая Экспедиция "Дархан", Сайхана, Карта Закономерностей Размещения Полезных Ископаемых	Egingol	1:50,000	1986	10 pieces (M-47-69-Г; -70-A, -Б; -81-Б)
2-32	4403	Улсын Геологийн Төв Геолог Шинжилгээний "Дархан" Нэгдэл Туулын Анги: Геологийн Карта, Ашигт Малтмалын Карта МНР, Муренская Геологическая Экспедиция, Муренская ГГС Партия №.7: Геологическая Карта, Карта Закономерностей Размещения Полезных Ископаемых	Saikhan	1:50,000	1990	20 pieces (M-48-109-Г; -110-A, -Б, -В, -Г; -111-A, -Б, -Г)
2-33	4597	Улсын Геологийн Төв Геолог Шинжилгээний "Дархан" Нэгдэл Туулын Анги: Геологийн Карта, Ашигт Малтмалын Карта МНР, Муренская Геологическая Экспедиция, Муренская ГГС Партия №.7: Геологическая Карта, Карта Закономерностей Размещения Полезных Ископаемых	Tuul	1:50,000	1991	23 pieces (M-48-125-Г; -137-A, -Б, -В, -Г; -138-A, -Б, -В, -Г; L-48-5-A, -Б, -Г)
2-34	4633	Улсын Геологийн Төв Геолог Шинжилгээний "Дархан" Нэгдэл Туулын Анги: Геологийн Карта, Ашигт Малтмалын Карта МНР, Муренская Геологическая Экспедиция, Муренская ГГС Партия №.7: Геологическая Карта, Карта Закономерностей Размещения Полезных Ископаемых	Muren	1:50,000	unknown	36 pieces (M-47-81-B, -Г; -82-A, -Б, -Г; -92-Б, -Г; -93-A, -Б, -В, -Г; -94-A, -Б, -В, -Г; -95-A, -Б)
2-35	3283	Геологическая Карта: Района Эрдени туин-обо (Булган-аймак)	Erdenetiin ovoo	1:100,000	1968	2 pieces
2-36	3283	Геологическая Карта Рудной Зоны: Эрдени туин-обо (Булган-аймак)	Erdenetiin ovoo	1:10,000	1966	1 piece
2-37	4552	Ташигсий Рудный Узел: Геологическая Карта	Teshing ore node	1:100,000	1989	1 piece

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