

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

(8a/15)

Western part of the survey area

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	Metallogenic province	Country rock	Alteration	Age of mineralization
3890	Khokh davaa	Skarn	Khubsgul	50 07 30	98 52 20	North Mongolia	Khubsgul	Dipression	Diorite	Limestone	V -Bayan zurkh series	Devonian	North Mongolia	Limestone		
3992	Occur-91	Greisen	Khubsgul	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	Khubsgul	50 13 10	98 39 50	North Mongolia	Near Khubsgul	Uplift		Meta-aleurolite	R3 -Darkhad series		North Mongolia	Meta-aleurolite		
99	Occur-8	Hydrothermal	Khubsgul	51 42 00	99 48 00	North Mongolia	Near Khubsgul	Dipression		Sandstone, limestone, shale	Vendian-Lower Cambrian		North Mongolia	Sandstone, limestone, shale		
1454	North Argalant	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		
130	Ugeidei 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	Dipression	Granodiorite, diorite, granite, granite porphyry			PR3; P2-T1 -Selenge complex	North Mongolia	Granodiorite, diorite, granite, granite porphyry		
1464	Jinst-22	Metasomatic	Khubsgul	49 35 00	98 20 00	North Mongolia	Near Khubsgul	Uplift	Granite	Limestone, aleurolite	Lower Cambrian	Middle Paleozoic	North Mongolia	Granite		
3994	Tsagaan tolgoi	Hydrothermal	Khubsgul	49 40 25	99 39 30	North Mongolia	Khubsgul	Uplift	Granite			D2 -Tes complex	North Mongolia	Granite		

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

(8b/15)

Western part of the survey area

No.	Deposit name	Deposit (2)					Previous survey					Reference
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number
3890	Khokh davaa	Skarn: 2-6,2m			Au-0,005g/t		Prospecting work(1991)					4746
3992	Occur-91	Quartz vein: 12m x0,8m			Cu-0,155; Ag-0,00002%		Geological mapping(1993)*					4839
465	Occur-35	Quartz vein: 15m x0,3m			Cu-0,02%; Pb-0,003%		Geological mapping(1976)**			38,3m cub		2981
4618	Ubur khujirt gol	Quartz vein (zone): 100m x0,5m	Chalcopyrite	pyrite	Cu-0,01%, Pb-0,002%		Geological mapping(1992)*					4863
99	Occur-8	Quartz vein:			Sn-0,02-0,1%		Geological mapping(1968)**					1827
1454	North Argalant	Mineralization zone: 400m x26m	Spharelite, galena	Magnetite, malachite, azurite, hematite	Cu-0,15%; Zn-7%		Geological mapping(1981)**	219 samples		235,5m cub		3592
1557	Shatain ovoo	Skarn: 150m x6m	Spharelite,	Galena	Pb-0,085; Zn-0,18%		Geological mapping(1977)**			183,1m cub	30,4m	2723
130	Ugeidei uul	Skarn: 100m x30m			Cu-0,8-1%; Ag-20g/t		Geological mapping(1981)**			5 digs		3576
105	lkh uul	Alteration zone: 250m x18,3m			Cu-0,02%; Ag-30g/t		Prospecting work(1979)			118m.cub		3122
1464	Jinst-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

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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	
1479	Tsagaan tolgoi	Metasomatic	Khubs gul	49 39 00	99 40 00	North Mongolia	Near Khubs gul	Dipression	Granite				D1-2 -Muren complex	North Mongolia	Granite		
3878	Khargana gol (47-4-II)	Hydrothermal	Khubs gul	50 12 23	98 53 00	North Mongolia	Khubs gul	Dipression	Granite	Limestone	V -Bayan zurkh series lower subsuite	Lower-Middle Jurassic		North Mongolia	Granite		
1478	Ulaan nuur	Hydrothermal	Khubs gul	49 39 00	99 20 00	North Mongolia	Near Khubs gul	Dipression	Granites				D1-2 -Numreg complex; J	North Mongolia	Granites		
3995	Songinot uul	Greisen	Khubs gul	49 49 30	99 28 15	North Mongolia	Khubs gul		Granite	Shale, limestone	R3 -Darkhad series	Jurassic		North Mongolia	Granite		
1536	Altan ovoo	Hydrothermal	Khubs gul	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	Khubs gul	49 53 00	98 43 00	North Mongolia	Near khubs gul	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	Outcrow	Granite	Tufficious conglomerate	R3 -Zavkhan series	Upper Riphean		North Mongolia	Granite		
1468	Khuderin	Metasomatic	Khubs gul	49 58 00	99 41 00	North Mongolia	Near Khubs gul	Dipression	Granite	Carbonate terrane	R3 -Ukhaa tolgoi and Arsaï suite	PZ3 -Selenge complex		North Mongolia	Granite		
1603	Terkhiiin tsagaan nuur	Hydrothermal	Arkhangai	48 07 45	99 50 50	North Mongolia	Ider	Uplift	Granite	Tufficious conglomerate	R3 -Zavkhan series	Upper Riphean		North Mongolia	Granite		
1513	lkh belchiriin gozgor	Hydrothermal	Khubs gul	51 42 00	99 49 00	North Mongolia	Near khubs gul	Dipression		Sandstone, shale	PR3 -Okin suite			North Mongolia	Sandstone, shale		

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

(9b/15)

Western part of the survey area

No.	Deposit name	Deposit (2)					Previous survey					Reference
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number
1479	Tsagaan tolgoi	Greisen zone: 100m x80m	Molybdenite	Chalcopyrite, spharelite, galena, pyrite	Cu-0,02%; Mo-0,03%		Geological mapping(1973)**	75 samples		170,5m.cub	254m	2256
3878	Khargana gol (47-4-11)	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	Spharelite, galena, hematite, pyrite, magnetite	Pb-0,01%; Zn-0,02%; Mo-0,006%		Geological mapping(1973)**			475m.cub	140m	2256
3995	Songinot 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	Tsagduult 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
1468	Khuderiin	Alteration zone: 3km	Tungstenite	Pyrite	Mo-0,3%; W-0,35; Ag-3,8g/t		Prospecting work(1989)	654 samples			4 digs	4379
1603	Terkhiin 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	lkh belchiriin gozgor	Quartz vein: 10m x0,1m	Limonite, malachite, galena		Zn-0,28%; Ga-1%; W-0,06%		Geological mapping(1968)**	400 samples				1827

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(10a/15)

Western part of the survey area

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	
100	Occur-25	Hydrothermal	Khubs gul	51 26 00	99 54 00	North Mongolia	Near Khubs gul	Dipression	Granite	Metamorphic rocks	Vendian-Lower Cambrian	Lower Paleozoic	North Mongolia	Granite			
451	Occur-21	Hydrothermal	Khubs gul	48 44 00	99 12 00	North Mongolia	I der	Uplift	Granite			Lower Paleozoic	North Mongolia	Granite			
466	Bugat gol	Metasomatic	Khubs gul	49 16 00	98 45 00	North Mongolia	I der	Dipression	Granite porphyry	Marblized limestone	Vendian-Lower Cambrian	Lower-Upper Permian	North mongolia	Granite porphyry			
1452	Tsakhir tolgoi	Metamorphic	Zavkhan	49 36 00	96 09 00	North Mongolia	I der	Uplift		Shale, sandstone	PR3 -Burgas gol suite		North Mongolia	Shale, sandstone			
1482	Tsagaan nuruu	Contact metasomatic	Khubs gul	49 31 00	99 44 00	North Mongolia	Near Khubs gul	Dipression	Granite	Limestone	E1 -Khug series	D1-2 -Numreg complex	North Mongolia	Granite			
1473	Khuren chuluut	Metamorphic	Khubs gul	49 50 00	99 31 00	North Mongolia	Near Khubs gul	Dipression		Tuff, shale, sandstone	E1 -Sarkhai suite		North Mongolia	Tuff, shale, sandstone			
1469	Ore No107	Metamorphic	Khubs gul	49 56 00	99 31 00	North Mongolia	Near Khubs gul	Dipression		Shale, sandstone with thin dolomite beds	R3-V -Darkhad series		North Mongolia	Shale, sandstone with thin dolomite beds			
5346	Khundiin davaa	Hydrothermal	Zavkhan	48 07 00	96 00 00	North Mongolia	I der	Uplift		Porphyrite	D1 -Bor nuur series		North Mongolia	Porphyrite			
1514	Khoron gol	Hydrothermal	Khubs gul	51 25 00	99 56 00	North Mongolia	Near Khubs gul	Dipression		Quartzite, limestone	PR3 -Khordul series		North Mongolia	Quartzite, limestone			
146	khaluun usnii gol	Contact metamorphism	Khubs gul	48 33 37	99 55 15	North Mongolia	I der	Uplift		Marblized limestone, gneiss	Lower Proterozoic		North Mongolia	Marblized limestone, gneiss			
1593	Urtiin under	Hydrothermal	Zavkhan	48 20 00	97 11 00	North Mongolia	I der	Uplift	Granodiorite			Lower Paleozoic	North Mongolia	Granodiorite			

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(10b/15)

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No.	Deposit name	Deposit (2)					Previous survey					Reference
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number
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 chuluut	Quartz-hematite bed: 400m x12m	Magnetite, hematite				Geological mapping(1969)**			2 digs		1914
1469	Ore No107	Iron lenticular body: 1000m x26m	Magnetite, hematite	Limonite	Fe-58,36%; Mn-0,04%; V-0,01%		Geological mapping(1968)**; (1982)*			128m.cub (1982)		1914, 3642
5346	Khundiin 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
146	khaluun 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

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(11a/15)

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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	
147	Terkhiin 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	Sortant uul	Hydrothermal	Zavkhan	48 41 00	97 32 00	North Mongolia	Ider	Uplift		Limestone		Lower Cambrian		North Mongolia	Limestone		
144	Salbart	Sedimentary-metamorphogenic	Arkhangai	48 18 06	99 49 15	North Mongolia	Ider	Uplift	Amphibolite			Lower Paleozoic		North Mongolia	Amphibolite		
1605	Ultiin gol	Hydrothermal	Arkhangai	48 00 00	99 50 20	Mongol-Ubur baykal	Khangai	Dipression		Schistized sandstone		R2 -Zagiin series		North Mongolia	Schistized sandstone		
1537	No57	Hydrothermal	Khubsgul	50 17 00	98 57 00	North Mongolia	Tuva-Mongol	Uplift	Granite	Shale		PR3 -Okin suite	Lower-Middle Devonian	Tuva-Mongol	Granite		
1463	No33	Metasomatic	Khubsgul	49 38 00	98 45 00	North Mongolia	Near Khubsgul	Uplift	Granite	Meta-sedimentary rocks		Vendian-Lower Cambrian	Middle Paleozoic	North Mongolia	Meta-sedimentary rocks		
1515	No25	Hydrothermal	Khubsgul	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?	Efussive rocks		Lower Permian	Lower Paleozoic	North Mongolia	Intrusion?		
1460	No11	Hydrothermal	Khubsgul	49 25 00	97 24 00	North Mongolia	Near Khubsgul	Uplift	Granite				P2-T1 -Selenge complex	North Mongolia	Granite		

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

(11b/15)

Western part of the survey area

No.	Deposit name	Deposit (2)					Previous survey					Reference
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number
147	Terkhiin gol	Magnetite vein: 100m x1,5m	Magnetite		Cu-0,06%; Zn-0,05%; Fe-29,64%		Geological mapping(1982)**					3684
1562	Telmen	Syderite vien;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	Salbart	Shale lenticular body:70m x7m	Magnetite		Cu-0,003%; Fe-0,6%		Geological mapping(1982)**					3684
1605	Ultiin 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		Magnetite-20%		Geological mapping(1964)****					1756
1563	No22	Magnetite lenticular body: 20m x5m	Magnetite		Magnetite-4-8%		Geological mapping(1974)**					2981, 1751
1460	No11	Quartz vein:	Magnetite				Geological mapping(1978)**					3041

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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	Metallogenic province	Country rock	Alteration	Age of mineralization	
1459	No7	Contact metasomatic	Khubs gul	49 41 00	97 39 00	North Mongolia	Near Khubs gul	Uplift	Granosyenite	Limestone	Upper Proterozoic	P2-T1 -Selenge complex	North Mongolia	Granosyenite			
1579	Nergui	Magmatic	Khubs gul	48 47 00	99 58 00	North Mongolia	Ider	Uplift	Gabbro, diorite			Middle Paleozoic	Tuva-Mongol	Gabbro, diorite			
4696	Must uul	Hydrothermal	Arkhangai	48 07 15	99 21 00	North Mongolia	Khangai	Outcrow	Anorthosite		Upper Proterozoic		Tarbagatai	Anorthosite		Proterozoic	
1455	Magnetite ovoid No30	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	Khubs gul	51 52 00	99 43 00	North Mongolia	Khubs gul	Dipression		Green shale, serpentinite	R1-2; V-E1		North Mongolia	Green shale, serpentinite			
1595	Ider	Contact metasomatic	Zavkhan	48 15 00	97 20 00	North Mongolia	Ider	Uplift	Granite	Limestone	Upper Proterozoic	Lower-Middle Devonian	North Mongolia	Granite		Lower-Middle Devonian	
1552	Jinsen gol	Magmatic	Zavkhan	49 15 00	96 50 00	North Mongolia	Ider	Uplift	Granite	Gneiss, serpentinite	Upper Proterozoic	Lower Cambrian	North Mongolia	Granite		Upper Proterozoic	
148	Jargalant	Hydrothermal	Arkhangai	48 34 40	99 14 45	North Mongolia	Ider	Uplift	Anorthosite, gneiss			Lower Paleozoic	North Mongolia	Anorthosite, gneiss			
2212	Upper Saibartai	Hydrothermal	Arkhangai	48 21 22	99 49 15	North Mongolia	Ider	Uplift	Granite gneiss			Lower Proterozoic	North Mongolia	Granite gneiss			
1601	Darkhan ulaan davaa	Hydrothermal	Arkhangai	48 09 18	99 20 40	North Mongolia	Ider	Uplift	Gabbro-anorthosite, gabbro-diorite			Lower Proterozoic	North Mongolia	Gabbro-anorthosite, gabbro-diorite			
1542	Beltesiin gol	Hydrothermal	Khubs gul	50 26 00	99 20 00	North Mongolia	Near Khubs gul	Dipression	Diorite			Middle Carboniferous	North Mongolia	Diorite			

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

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No.	Deposit name	Deposit (2)					Previous survey					Reference Report number
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	
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 oxid, magnetic pyrites	Fe-21,36%; Cu-0,002%; Mn-0,02%		Geological mapping(1982)**					3684, 1831
1455	Magnetite ovoo 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	40,7m	2723
148	Jargalant	Quartz vein: 10m x3m	Hematite		Fe-24,24%; Cu-0,003%		Geological mapping(1982)**					3684
2212	Upper Salbartai	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	Beltesiin gol	Magnetite vein: 20m x0,8m	Magnetite				Geological mapping(1953)**					609

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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	Metallogenic 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	Anorthosite		
4695	Bayan uul	Hydrothermal	Arkhangai	48 09 18	99 20 40	North Mongolia	Khangai	Outcrop	Gabbro-anorthosite				Lower Proterozoic	North Mongolia	Gabbro-anorthosite		Lower Proterozoic
1480	West Mandal uul	Hydrothermal	Khubs gul	49 37 00	99 21 00	North Mongolia	Near Khubs gul	Dipression		Acid volcanic rocks		P1-2 -Bugsein gol suite		North Mongolia	Acid volcanic rocks		Upper Permian
3905	Altargana gol	Hydrothermal	Khubs gul	50 18 45	98 55 00	North Mongolia	Khubs gul	Dipression	Granite	Green shale		Riphean	Middle Devonian	North Mongolia	Green shale		
1729	Tsagaan khonkh	Metasomatic	Arkhangai	48 22 00	99 50 00	North Mongolia	Ider	Uplift	Granite, quartz porphyry				Middle Riphean	North Mongolia	Granite, quartz porphyry		
175	Khukh chuluut	Magmatic	Khubs gul	50 00 00	99 58 00	North Mongolia	Near Khubs gul	Dipression		Carbonate and metamorphic rocks		V-E1 -Khesen and Khordul suite, R3 - Darkhad series		North Mongolia	Carbonate and metamorphic rocks		
1549	Khagiin nuur	Magmatic	Khubs gul	50 14 00	99 35 00	North Mongolia	Near khubs gul	Dipression	Nepheline syenite				Lower-Middle Devonian	North Mongolia	Nepheline syenite		
1544	Serkh uul	Magmatic	Khubs gul	50 23 00	99 35 00	North Mongolia	Near Khubs gul	Dipression	Syenite	Limestone		V-E1 -Bayanzurkh suite	Lower Permian-Lower Triassic	North mongolia	Syenite		
1550	West Mankhan	Magmatic	Khubs gul	50 06 00	99 55 00	North Mongolia	Near Khubs gul	Dipression	Nepheline syenite				D1-2 -Ujig gol massive	North Mongolia	Nepheline syenite		
1522	Dund khem gol	Magmatic	Khubs gul	50 43 00	99 49 00	North Mongolia	Near Khubs gul	Dipression	Alkaline granite				Middle Carboniferous	North Mongolia	Alkaline granite		
178	Burenkhaan	Magmatic	Khubs gul	49 50 00	99 58 00	North Mongolia	Near Khubs gul	Dipression		Limestone		V-E1 -Khesen and Khordul suite		North Mongolia	Limestone		

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

(13b/15)

Western part of the survey area

No.	Deposit name	Deposit (2)					Previous survey					Reference
		Morphology	Ore mineral	Gangue 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	Altargana 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	Khagin nuur	Stock: 0,9 sq.km	Foyaite		Pb-0,002%; Fe1,21%		Geological mapping(1984)*			5634,8m cub	315,4m	3977
1544	Serkh uul	Stock: 2,75 sq.km	Foyaite, Juvite		Al-22,3%		Geological mapping(1985)*					3977
1550	West Mankhan	Stock: 25 sq.km	Nepheline	Topaz	Al-		Geological mapping(1968)**					1914
1522	Dund khem gol	Foyaite zone: 3000m x200m	Foyaite		Al-20,9%; Nb-0,02%	Al-33,7 Million ton	Geological mapping(1965)****; (1987)*	514 samples(1987)		71,8b.cub(1987)		1756, 4286
178	Burenkhaan	Syenite stock: 6,2 sq.km	Nepheline		Al-20,9%		Geological mapping(1982)*					3642

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

(14a/15)

Western part of the survey area

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	Metallogenic province	Country rock	Alteration	Age of mineralization	
1477	Marganese No26	Sedimentary	Khubs gul	49 42 00	99 58 00	North Mongolia	Near Khubs gul	Dipression		Clay schist, aleurolite	E1 -Khor dul suite		North Mongolia	Clay schist, aleurolite			
1591	Khag nuur	Sedimentary	Zavkhan	48 04 00	96 30 00	North Mongolia	I der	Dipression		Sandstone, aleurolite	Lower Cambrian		North Mongolia	Sandstone, aleurolite			
1566	kheteini	Hydrothermal-metasomatic	Khubs gul	50 04 00	99 25 00	North Mongolia	Near Khubs gul	Dipression	Granite	Limestone	E1 -Minjit suite	Lower-Middle Devonian	North Mongolia	Granite			
1458	Baga ikh jamaat	Hydrothermal	Zavkhan	49 46 00	97 06 00	North Mongolia	Near khubs gul	Uplift		Limestone	Vendian-Lower Cambrian		North Mongolia	Limestone			
3932	Occur-3 (8-A-IV-4)	Hydrothermal	Khubs gul	51 52 35	99 41 40	North Mongolia	Khubs gul	Dipression		Serpentine, carbonate rocks	Vendian		North Mongolia	Serpentine, carbonate rocks			
1467	No38a	Alluvial	Khubs gul	49 24 00	98 03 00	North Mongolia	Near Khubs gul			Clay sand	QIV		North Mongolia	Clay sand			
1466	No 25a	Alluvial	Khubs gul	49 29 00	98 22 00	North Mongolia	Near Khubs gul			Sand, clay	QIV		North Mongolia	Sand, clay			
1465	No18a	Alluvial-proluvial	Khubs gul	49 33 00	98 24 00	North Mongolia	Near Khubs gul	Uplift		Clay sand	QIII-IV		North Mongolia	Clay sand			
1485	Shine-ider	Magmatic	Khubs gul	48 55 00	99 40 00	North Mongolia	I der	Uplift	Gneiss, migmatite, amphibolite			Proterozoic	North Mongolia	Gneiss, migmatite, amphibolite			
1539	Tsokhio	Hydrothermal	Khubs gul	50 36 00	99 19 00	North Mongolia	Near Khubs gul	Dipression		Limestone	Lower Cambrian		North Mongolia	Limestone			
1476	No21	Sedimentary	Khubs gul	49 46 00	99 53 00	North Mongolia	Near khubs gul	Dipression		Limestone with shale beds	E1 -Khor dul suite		North Mongolia	Limestone with shale beds			

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

(14b/15)

Western part of the survey area

No.	Deposit name	Deposit (2)					Previous survey					Reference Report number
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	
1477	Manganese 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
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	(Cyrtolite)?		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-IV-4)	Serpentinite bed:			Ni-1%; Cr-0,2%; Co- 0,007%; Cu-0,005%		Geological mapping(1993)*					4770
1467	No38a	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	No18a	Ilmenite bed: 450m	Ilmenite		Ilmenite-2200g/m.cub		Geological mapping(1977)**				336,8m	3045
1485	Shine-ider	Pegmatite dyke: 90m x4m	Beryl		Be-		Prospecting work(1966)					1814, 2283
1539	Tsokhio	Quartz-calcite vein: 25m x0,08m			V-3,4%; Cu-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

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

(15a/15)

Western part of the survey area

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	
1474	Vanadium (No 18)	Sedimentary	khubsgul	49 49 50	99 50 00	North Mongolia	Near Khubsgul	Dipression	Granite, granodiorite	Limestone, carbonate rocks	V-E1 -Khesen suite; E1 -Khordul suite	PZ2	North Mongolia	Limestone, carbonate rocks			
1483	Buyant (No83)	Sedimentary	Khubsgul	49 44 00	99 47 00	North Mongolia	Near khubsgul	Dipression	Granite	Dolomite, limestone, aleurolite, shale	V-E1 -Khesen suite	Upper Paleozoic	North Mongolia	Dolomite, limestone, aleurolite, shale			
48	Mungesh	Hydrothermal-metasomatic	Khubs gul	50 37 00	99 24 00	North Mongolia	Near Khubsgul	Graben		Limestone	Upper Cambrian		North Mongolia	Limestone			
5003	Tsagaan chuluut	Contact metasomatic	Khubs gul	50 21 00	99 46 00	North Mongolia	Near khubsgul	Dipression	Granite	Limestone, marble	E1 -Khordul suite	Middle Devonian	North Mongolia	Limestone, marble		Middle Devonian	
3891	Altan boom	Hydrothermal	Khubs gul	50 17 32	98 56 00	North Mongolia	Khubs gul	Uplift	Leucocratic granite	Shale	Middle Riphean	Lower-Middle Jurassic	North Mongolia	Leucocratic granite			

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

(15b/15)

Western part of the survey area

No.	Deposit name	Deposit (2)					Previous survey					Reference
		Morphology	Ore mineral	Gangue mineral	Grade	Ore reserve	Geology	Geochemistry	Geophysics	Trench and pit	Drilling	Report number
1474	Vanadium (No 18)	Silicification bed: 1800m x 81m			V-0,17%	V-14260,4t	Geological mapping(1982)*	783 samples		1677m cub		3642, 4040
1483	Buyant (No83)	Vanadium bearing shale bed: 800m x 70m	Vanadium	Phosphorite	V-0,23%; Ba-1%; Mo-0,002%		Geological mapping(1982)*	814 samples		787,5m.cub		3642
48	Mungesh	Quartz-calcite vein: 30m			V-		Geological mapping(1933)					44
5003	Tsagaan chuluut	Skarn: 0,3m wide	Scheelite		W-0,1%		Geological mapping(1986)*				100m	3977
3891	Altan boom	Ore body: 300m x 200m			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-3 List of topographic maps of the central north area

Index No.	Map No.	Original title of the map (in Mongolian or Russian)	Scale	Published Year
1-1	M-47-A	Баянзурх	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	Слюдянка	1:500,000	unknown
1-6	M-48-B	Булган	1:500,000	unknown
1-7	M-47-69	Г. ХухудэбсэгОбо	1:100,000	1948
1-8	M-47-81	НараниОбо	1:100,000	1948
1-9	M-47-93	Мурэн	1:100,000	1948
1-10	M-47-119	ЦэцэрлигСомон	1:100,000	1949
1-11	M-47-120	Озшарга-Нур	1:100,000	1949
1-12	M-48-61	АригыйиДуганг	1:100,000	1948
1-13	M-48-62	Цулун	1:100,000	1949
1-14	M-48-74	ТэшигСомон	1:100,000	1948
1-15	M-48-100	ЦонхолонСомон	1:100,000	1947
1-16	M-48-101	ХангалСонон	1:100,000	1948
1-17	M-48-109	НарингинХурэ	1:100,000	1949
1-18	M-48-110	Г. АршантуинОбо	1:100,000	1949
1-19	M-48-111	БулганыНуруу	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. ИхэЦаган-Нур	1:100,000	1949
1-23	M-48-134	УлцзэйтүСомон	1:100,000	1949
1-24	M-48-135	АбзогСомон	1:100,000	1947
1-25	M-48-137	ЗуунтурууБригад	1:100,000	unknown

Table A-4 List of geological maps (with the reports) of the central north area

(1/3)

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 Центральной И Восточной Монглии	Mineral Map of Mongolia	1:500,000	1986	6 pieces (M-47-A · Б, -В, -Г, M-48-A, -В)
2-4	402	Геологическая Карта: Района Реки, Желтуры/Ацзаргайн-гол/Селенгинский 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	Khangal 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-XXII, -XXVII, -XXIX, -XXX)
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 Совмещенная 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-XXXI, -XXXII)
2-17	2982	Геологическая Карта И Карта Полезных Ископаемых	Tarvagatai	1:200,000	1979	3 pieces (M-48-XIX)

Table A-4 List of geological maps (with the reports) of the central north area

(2/3)

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	Геологический Зураг, Ашигт Малтмал, Тууний Тархалтын Зуй Тогтлын Зураг	Erdenebulgan	1:200,000	unknown	9 pieces (M-47-XVII, -XVIII, -XXIV): in Mongolian
2-22	4862	Геологический Зураг, Ашигт Малтмал, Тууний Тархалтын Зуй Тогтлын Зураг	Tavt	1:200,000	unknown	8 pieces (M-48-VII, -XIII): in Mongolian
2-23	5171	Геологический Зураг, Ашигт Малтмал, Тууний Тархалтын Зуй Тогтлын Зураг	Tsagaan uur	1:200,000	1998	7 pieces (M-47-V-XI, -VI-XII): in Mongolian
2-24	63	(1) Схематическая Геологическая Карта (2) Вторичные Ореолы Рассеяния (Cu, Ba, Zr, Mo) (3) Вторичные 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: Водораздела Рек Бургэлту-гол и Бадарыйи-гол etc.	Egiingol	1:50,000	1961	6 pieces
2-26	1612	Геологическая Карта: Дзалатуинского 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 Закономерностей Их Размещения	Burenkhan	1:50,000	1983	10 pieces (M-47-68-Б, -Г; -80-А, -Б; -81-А; -80-В & -81-В)
2-30	3649	(1) Геологическая Карта (2) Карта Полезных Ископаемых И Закономерностей Их Размещения	Khatgal	1:50,000	1982	10 pieces (M-47-57-В; -69-А, -Б, -В)
2-31	3976	МГ и ГРПМНР Муренская Геологосъемочная Экспедиция, Эггйн-гольская № 10; Геологическая Карта, Карта Полезных Ископаемых И Закономерностей Их Размещения	Egiingol	1:50,000	1986	10 pieces (M-47-69-Г; -70-А, -Б; -81-Б)

Table A-4 List of geological maps (with the reports) of the central north area

(3/3)

2-32	4403	Совместная Монголо-Советская, Геологическая Экспедиция "Дархан", Сайханская Партия-5: Геологическая Карта, Карта Закономерностей Размещения Полезных Ископаемых	Saikhan	1:50,000	1990	20 pieces (M-48-109-Г; -110-А, -Б, -В, -Г; -111-А, -В, -Г)
2-33	4597	Улсын Геологийн ТӨВ Геологи Шинжилгээний "Дархан" Нэгдэл Туулын Анги: Геологийн Карт, Ашигт Малтмалын Карт	Tuul	1:50,000	1991	23 pieces (M-48-125-Г; -137-А, -Б, -В, -Г; -138-А, -Б, -В, -Г; L-48-5-А, -Б, -Г)
2-34	4633	Министерство Тяжелой Промышленности МНР, Муленская Геологосъемочная Экспедиция, Муленская ГГС Партия №.7: Геологическая Карта, Карта Закономерностей Размещения Полезных Ископаемых	Muren	1:50,000	unknown	36 pieces (M-47-81-В, -Г; -82-А, -В, -Г; -92-Б, -Г; -93-А, -Б, -В, -Г; -94-А, -Б, -В, -Г; -95-А, -В)
2-35	3283	Геологическая Карта: Района Эрдэнитуйн-обо (Булган-аймак)	Erdenetiin ovoo	1:100,000	1968	2 pieces
2-36	3283	Геологическая Карта Рудной Зоны: Эрдэнитуйн-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

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

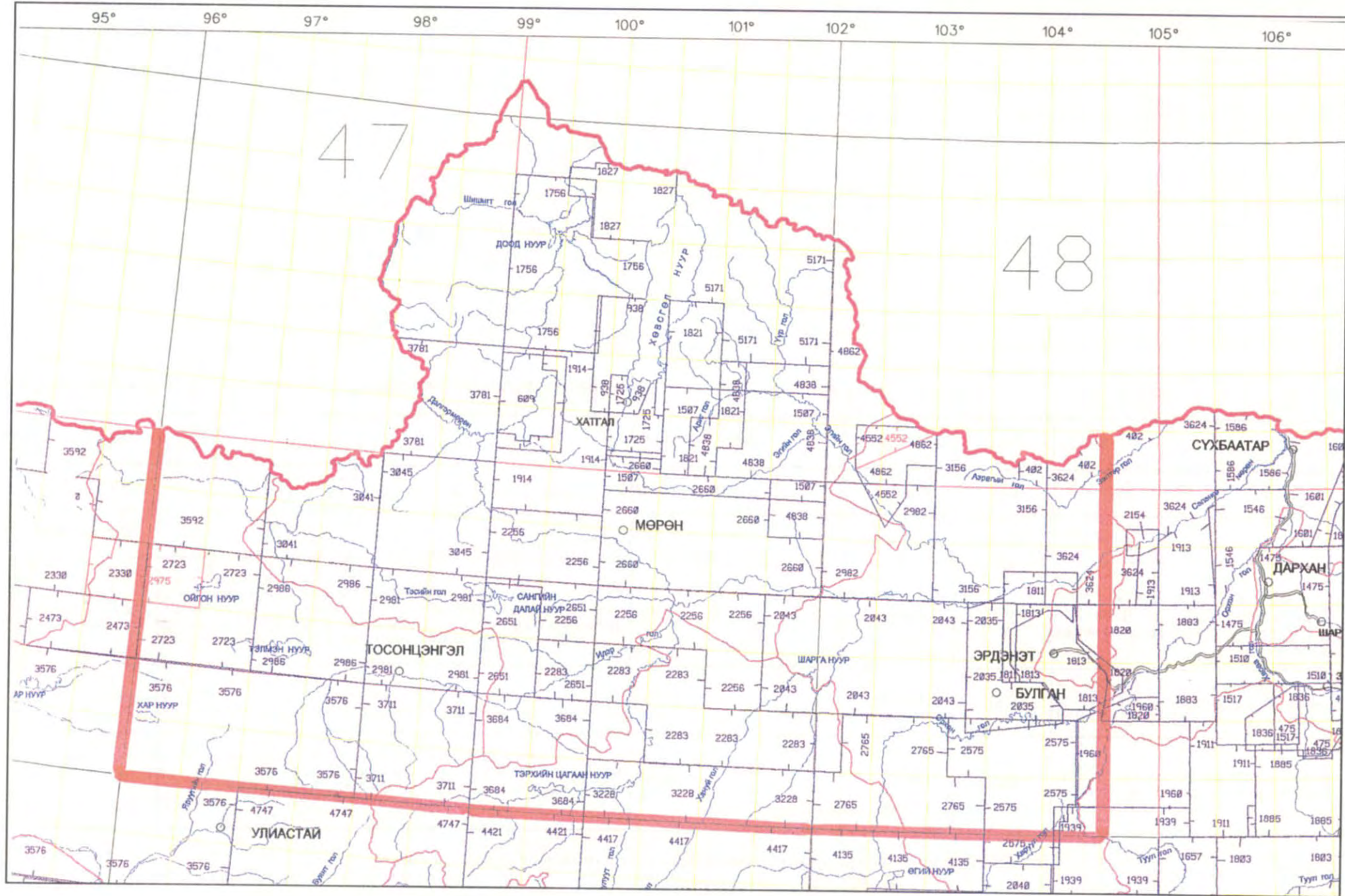


Fig. A-1 Index map of geological maps (1:200,000) in the central north area

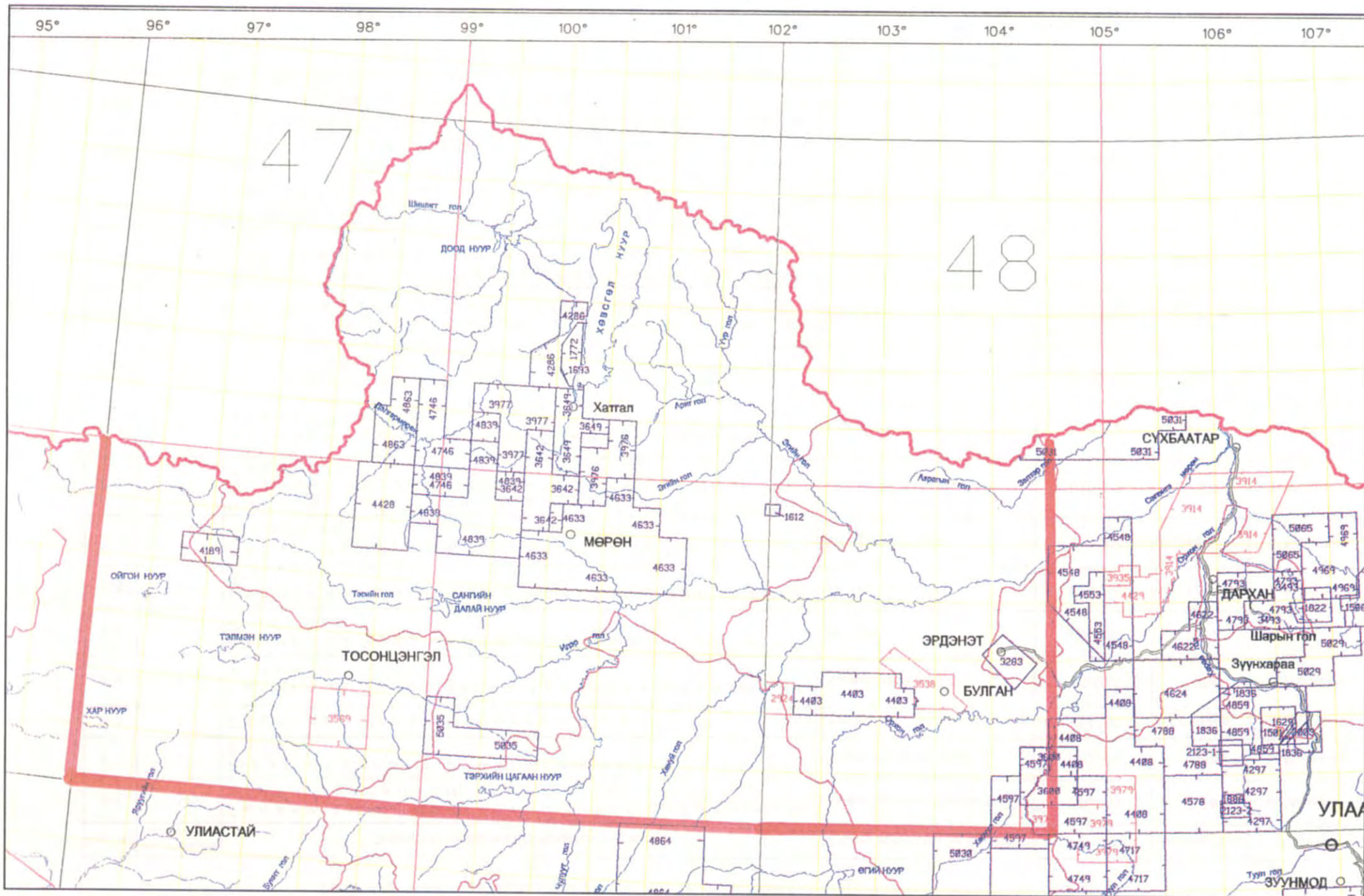


Fig. A-2 Index map of geological maps (1:50,000) in the central north area

Table A-5 List of geological data around mineral occurrences of the central north area (Phase I survey)

(1/3)

Index No.	No. of Mineral Occurrences	Original title of the map (in Mongolian or Russian)	Name of the area (in English)	Scale	Published Year	Remarks
3-1	1	Геолги-Ашигт Малтмалын Зураг: Заамарын Хвдрийн Зангилаа (М)	Zaamar ore knot (Sundal N177)	1:50,000	1994	in Mongolian
3-2	1	Хвдэр Агуулагч Бичигтийн Ба Улаан Энгэрийн Бвс	Bichigt and Ulaan enger	1:50,000	1994	in Mongolian
3-3	1	Геолгийн Зураг: Заамарын Дvvрэг	Zaamar	1:50,000	unknown	
3-4	1	Геолгийн Зураг: Хвдэр Агуулагч Цагаан Чулуутын Бвс	Tsagaan chuluut	1:5,000	1994	in Mongolian
3-5	1	Геолгийн Зураг: Нарийн Голын Алтны Хвдрийн, Талбаи	Nariingol	1:10,000	1994	in Mongolian
3-6	1	Геолгийн Зураг: Хвдэр Агуулагч Дэл Судлын Бвс	Ore bearing dyke zone	1:10,000	1994	in Mongolian
3-7	1	Геолгийн Зураг: Нарийн Голын Алтны Хвдрийн, Талбаи	Nariingol gold field	1:10,000	unknown	in Mongolian
3-8	1	Нарийн Голын Алтны Хвдрийн, Талбайд 1992-1993 Онуудад Явуулсан Зрлийн Ажлын ур Дvнгийн Тайлан	Nariingol gold ore field's result	1:10,000	1994	in Mongolian
3-9	2	Участок Улцзэйтү-обо: Схематическая Геологическая Карта	Ulziit oboo	1:10,000	1987	in Russian
3-10	4	Участок Оюут-Хонхор: Схематическая Геологическая Карта	Ouyt-Khonkhor	1:10,000	1987	in Russian
3-11	8	Участка Могойи-гол: МГ и ГРП МНР Мурэнская ГСЭ, Схематическая Геологическая Карта	Mogoin gol	1:5,000	unknown	in Russian
3-12	8	Эрдэнтуинского Рудный Район, Участка Могойи-гол: Схематическая Геологическая Карта	Mogoin gol	1:25,000	1981	in Russian
3-13	9	Результаты Наземных Геолого-Геофизических Работ На Участке Холбо-Обо	Kholboo oboo	1:10,000	1990	in Russian
3-14	10	Схематическая Геологическая Карта: Участка г. Хо-Улан-Ула	Kho-ulaan	1:10,000	1974	in Russian
3-15	11	Схематическая Геологическая Карта / Геолого-Геофизические Разрезы: Участок Цзосоту-Тологой	Zost tolgoi	1:10,000	1984	in Russian

Table A-5 List of geological data around mineral occurrences of the central north area (Phase I survey)

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Index No.	No. of Mineral Occurrences	Original title of the map (in Mongolian or Russian)	Name of the area (in English)	Scale	Published Year	Remarks
3-16	12	Схематическая Геологическая Карта Рудопрооявления Меди Яргаит	Yargait	1:10,000	1984	in Russian
3-17	13	Схематическая Геологическая Карта: Участка Донхор-булак	Donkhor bulag	1:10,000	1974	in Russian
3-18	14	Схематическая Геологическая Карта: Молибденового Рудопрооявления "Алтган-гол"	Altavana gol	1:5,000	1986	in Russian
3-19	17	Схематический Геологический План: Участка "Дэлгэр-уул"	Delger uul	不明	1986	in Russian
3-20	18	МГ и ГРП МНР: Муренская Геолгосъемочная Экспедиция Геологический План: Участка "Кварцевый"	Quartz	1:10,000	1982	in Russian
3-21	19	МГ и ГРП МНР: Муренская Геолгосъемочная Экспедиция Схематический Геологический План и План Опробования Горных Выработок Участка "Скарновый"	Skarn	1:500	unknown	in Russian
3-22	20	Геологическая Карта, Свинцоворудного Месторождения, Хурилту Гол	Khurilty gol	1:200,000	1942	in Russian
3-23	24	Салхитын Голын Алт-Сульфидын Илрэлийн Геологийн Тойм Зураг	Salkhitiin gol	1:250,000	unknown	in Russian
3-24	27	Монголо-Советская Геологическая Экспедиция "Дархан" Сайхаиская Карта	Zairan	1:10,000	1987	in Russian
3-25	29	Схематическая Геологическая Карта: Участка "Бургэд Кяр"	Burged khyar	1:10,000	1990	in Russian
3-26	30	unknown	Urmiin tsagaan nuur	1:10,000	unknown	in Russian
3-27	32	Схематическая Геологическая Карта: Участка "Унбрах"	Undrakh	1:10,000	1990	in Russian
3-28	33	Схематический Карта: Кварцевой Жилы Врайоне	Tsookhor morit	1:500/1:1,000	unknown	in Russian
3-29	34	Схематическая Геологическая Карта: Участка "Джасаны Буц"	Zhassin buuts	1:10,000	1982	in Russian

Table A-5 List of geological data around mineral occurrences of the central north area (Phase I survey)

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Index No.	No. of Mineral Occurrences	Original title of the map (in Mongolian or Russian)	Name of the area (in English)	Scale	Published Year	Remarks
3-30	35	Схематическая Геологическая Карта с Результатами Поисковых Работ: Участка Харуул	Khar uul	1:10,000	1990	in Russian
3-31	38	Схематическая Геологическая Карта: Участок Хучжирын	Khujirin gol	1:25,000	1985	in Russian
3-32	39	Участок Цзоухын	Zhuukhiin gol	1:10,000	1985	in Russian
3-33	42	unknown	Tourmaline	1:10,000	unknown	in Russian
3-34	43	unknown	Under	1:10,000	unknown	in Russian
3-35	43	Эрдэнэтский Рудный Район Участок Болотный: Схематическая Геологическая Карта с Результатами Поисковых Работ	Under/bolotni	1:25,000	1981	in Russian
3-36	44	unknown	Shand	1:10,000	1981	in Russian
3-37	45	Месторождение Эрдэнтуин-Обо Участок Оюут: Схематическая Геологическая Карта	Ouyt	1:2,000	1985	in Russian

Table A-6 List of geological data around mineral occurrences of the central north area (Phase II survey)

Index No.	Map No.	Appendix No.	District	Occurrence	Contents	Reported year (Investigated year)	Scale	Map name
1	2221 (12)	10 (70067)	Erdenet West	Erdenet NW, Tsagaan chuluut, Talbulag	Location of investigated route and area	1973 (1969-1970)	1:25,000	Map of factual materials (Ore zone of Erdenetyn Ovoo)
2	2221 (2)	2 (70067)	Erdenet West	Tsagaan chuluut, Talbulag, Mogoin gol	Location of investigated route and area	1973	1:50,000	Map of factual materials for prospecting tour
3	2221 (23)	21 (70067)	Erdenet West	Tsagaan Chuluut	No.202 drill holl data (geology)	1973		Well No. 202, area "Tsagaan Chuluut"
4	4403 (27)	13, Sheet8	Erdenet West	Tsookher mert ?	Geological map including the distribution of mineralization	1989	1:50,000	Map of mineral resource location regulation
5	2221 (3?)	29 (70067)	Erdenet West	Tsagaan Chuluut	No.213 drill holl data (geology)	1973		Well No. 213, area "Tsagaan Chuluut"
6	4403 (100)	42, Sheet 1	Erdenet West	Burged khyr	No.3 and 4 drill holl data (geology and analysis results)	1990 ?	1:200	Geological column of the Well no. 3, 4
7	4403 (44)		Erdenet West	Tsookher mert	Location of investigated route and area	19.. ?	1:50,000	Map of factual materials, area "Tsookhor morit"
8	4403 ()	1/4	Tsagaan uul	Nariin azarga	Location of investigated route and area	?	1:50,000	Map of factual materials, area "Nariin Azarga"
9	4403 ()	1/3	Tsagaan uul	Uvur khujirt (Khaisiin belchir ?)	Location map (investigated route, E98'30'-45' N50'10'-20')	?	1:50,000	Map of factual materials, area "Uvur Khujirt"
10	2221 (32)	30 (70067)		Predgorny ?	No.214 drill holl data (geology and analysis results (Cu, Mo, Pb, Zn, Au, Ag))	1974 (1973)		Well No. 214, area "Predgorhy"
11	4084(81)	41, Sheet 1	Bulgan SW	Oyuut khonkhor, Ulziit ovoo, Shuvuut	Geological and geophysical section	(1984-1987)	1:50,000	Vertical section ... Areas "Ulziit ovoo", "Oyut Khonkhor"
12	4084()	64, Sheet 1	Bulgan SW	Oyuut khonkhor	No.15 drill holl data (geology and analysis results (Cu, Mo, Pb, Zn, Sn))	1987	1:200	Geological column of the Well No. 15, "Oyut Khonkhor"
13	4084 ()	50, Sheet 1	Bulgan SW	Oyuut khonkhor	No.14 drill holl data (geology and analysis results (Cu, Mo, Pb, Zn, Sn))			Geological column of the Well No. 14, "Oyut Khonkhor"
14	4084 (90)	46, Sheet 1	Bulgan SW	Oyuut khonkhor	Geological map (location of trenches and drill holls)	1987 (1984-1987)	1:10,000	Map of outcrop and factual materials, "Oyut Khonkhor"

Table A-6 List of geological data around mineral occurrences of the central north area (Phase II survey)

Index No.	Map No.	Appendix No.	District	Occurrence	Contents	Reported year (Investigated year)	Scale	Map name
15	8865 (12)	60	Erdenet West	Danbatseren	Geophysical map	1985 (1981-1983)	1:25,000	Result of Geophysical works by the method of...
16	8865 (80)	99, Sheet 1	Erdenet West	Shand	Geological and geophysical section		1:10,000	Result of Electrical prospecting by the method of...
17	3684	20	Tariat	Tsagaan khonkh	Geological map including the distribution of mineralization		1:5,000	Schematic geological map and scheme of location of mines.
18	3084	4	Tariat	Solongot, Solongotiin gol, Tariatiin gol, Terkhiin tsagaan nuur, Tsagaan khonk	Location of investigated area around Tariat district		1:200,000	Map of factual materials
19	3865 (89)	49	Erdenet West	Zuukhiin gol	Location of investigated area		1:10,000	Map of factual materials. Area Zuukhiin Gol
20	(92)	52	Erdenet West	Zuukhiin gol	Geological section by drill hole data	1985	1:2,000	Geological section for the profiles 12, 9.5, Zuukhiin Gol
21		1, Sheet 6	Tsagaan uul	Tsagaan uul	Location of investigated area			Map of factual materials, Tsagaan Uul
22	3865 (3)	34	Erdenet West	Khujiriin gol	Geological section		1:2,000	Geological section for the profiles II-II, I-I, Khujiriin Gol
23	4428/5	1, Sheet 5	Tsagaan uul	Tsagaan uul	Location of investigated route and sampling points		1:5,000	Map of factual materials, Undur Tsagaan Uul
24	4428 (46)	8, Sheet 1		Khunkh tsakhir, Tsagaan uul	Geological map		1:5,000 (Khunkh tsakhir), 1:10,000 (Tsagaan uul)	Geological map of Khunkh Tsakhirin prospecting area, ...
25	3209	24(55-036/14003)	Erdenet West	Under?	Geology and geophysical map (investigated route)	?	1:10,000	Results of prospecting works. Area "Undur"
26	3122 (2)	2 (10)	Tosontsengel	Quartzite, Ikh uul, Davaa	Location of investigated route, sampling points, drill holes, trench and pits	1980 (1978-1979)	1:10,000	Map of factual materials
27	3865 (62)	33	Erdenet West	Khujiriin gol, Ingetyn	Geological section by the results of geophysical survey	1985	1:10,000	Results of electrical prospecting works by the method...

Table A-6 List of geological data around mineral occurrences of the central north area (Phase II survey)

Index No.	Map No.	Appendix No.	District	Occurrence	Contents	Reported year (Investigated year)	Scale	Map name
28	3865 (82)	41	Erdenet West	Mogoin gol	Geological map including the location of investigated route, sampling points, trench and drill holls		1:25,000	Schematic geological map and map of factual materials
29	4428 (?)		Tsagaan uul	Khunkh tsakhir	Description of trench (geology and analysis results)		1:50	Mineralization index of Khunkh Tsakhir occurrence
30	3209 (4)	2, Sheet3 (55-036/14003)	Erdenet West	Shand	Location of investigated area and route			Area "Shand"
31	1909 (46)	16	Erdenet West	Mogoin gol	Location of trench		1:2,000	Geological- prospecting plan with results of sampling
32	(67)	93	Erdenet West	Shand	Location of investigated route and sampling points		1:25,000	Map of factual materials. Area "Shand"
33	3865 (7?)	98	Erdenet West	Shand	Geological and geophysical section		1:10,000	Result of Electrical prospecting by the method of...
34		1, Sheet3	Tsagaan uul	Jivleg uul?	Geological map including the location of investigated area		1:50,000	Map of factual materials, Jivleg Uul
35	442? ()	9, Sheet 1	Tsagaan uul	Khunkh tsakhir	Location of trench		1:5,000	Map of factual material
36	4428 (55)	8, Sheet 10	Tsagaan uul	Tsagaan uul	Description of trenches (geology and analysis results)		1:100	Mineralization index of Tsagaan Uul
37	3865 (46)	22	Erdenet West	Khujiriin gol	Geological map including the location of investigated area		1:50,000	Map of factual materials. Area "Khujirtiin"
38	3865 (64)	35(55-010/07200)	Erdenet West	Khujiriin gol	No.331 drill holl data (depth: 0-90m)	(1981-1985)	1:200	Geological column of the Well No. 331, "Khujiriin"
39	3865 (65)	35(55-010/07200)	Erdenet West	Khujiriin gol	No.331 drill holl data (depth: 90-200m)	(1981-1985)	1:200	Geological column of the Well No. 331, "Khujiriin"
40	3865 (66)	35 (55-010/07200)	Erdenet West	Khujiriin gol	No.331 drill holl data (depth: 200-318.30m)	(1981-1985)	1:200	Geological column of the Well No. 331, "Khujiriin"
41	3865 (67)	36(55-010/07200)	Erdenet West	Khujiriin gol	No.332 drill holl data (depth: 0-90m)	(1981-1985)	1:200	Geological column of the Well No. 332, "Khujiriin"

Table A-6 List of geological data around mineral occurrences of the central north area (Phase II survey)

Index No.	Map No.	Appendix No.	District	Occurrence	Contents	Reported year (Investigated year)	Scale	Map name
42	3865 (68)	36(55-010/07200)	Erdenet West	Khujiriin gol	No.332 drill holl data (depth: 90-200m)	(1981-1985)	1:200	Geological column of the Well No. 332, "Khujiriin"
43	3865 (69)	36(55-010/07200)	Erdenet West	Khujiriin gol	No.332 drill holl data (depth: 200-337.40m)	(1981-1985)	1:200	Geological column of the Well No. 332, "Khujiriin"
44	3865 (70)	37(55-010/07200)	Erdenet West	Khujiriin gol	No.334 drill holl data (depth: 0-90m)	(1981-1985)	1:200	Geological column of the Well No. 334, "Khujiriin"
45	3865 (71)	37(55-010/07200)	Erdenet West	Khujiriin gol	No.334 drill holl data (depth: 90-200m)	(1981-1985)	1:200	Geological column of the Well No. 334, "Khujiriin"
46	3865 (72)	37(55-010/07200)	Erdenet West	Khujiriin gol	No.334 drill holl data (depth: 200-290.20m)	(1981-1985)	1:200	Geological column of the Well No. 334, "Khujiriin"
47	3865 (73)	38(55-010/07200)	Erdenet West	Khujiriin gol	No.335 drill holl data (depth: 0-90m)	(1981-1985)	1:200	Geological column of the Well No. 335, "Khujiriin"
48	3865 (74)	38(55-010/07200)	Erdenet West	Khujiriin gol	No.335 drill holl data (depth: 0-200m)	(1981-1985)	1:200	Geological column of the Well No. 335, "Khujiriin"
49	3865 (75)	38(55-010/07200)	Erdenet West	Khujiriin gol	No.335 drill holl data (depth: 200-330m)	(1981-1985)	1:200	Geological column of the Well No. 335, "Khujiriin"
50	3865 (76)	39(55-010/07200)	Erdenet West	Khujiriin gol	No.336 drill holl data (depth: 0-90m)	(1981-1985)	1:200	Geological column of the Well No. 336, "Khujiriin"
51	3865 (77)	39(55-010/07200)	Erdenet West	Khujiriin gol	No.336 drill holl data (depth: 90-200m)	(1981-1985)	1:200	Geological column of the Well No. 336, "Khujiriin"
52	3865 (78)	39(55-010/07200)	Erdenet West	Khujiriin gol	No.336 drill holl data (depth: 200-317 m)	(1981-1985)	1:200	Geological column of the Well No. 336, "Khujiriin"
53	3865 (79)	40(55-010/07200)	Erdenet West	Khujiriin gol	No.337 drill holl data (depth: 0-90 m)	(1981-1985)	1:200	Geological column of the Well No. 337, "Khujiriin"
54	3865 (80)	40(55-010/07200)	Erdenet West	Khujiriin gol	No.337 drill holl data (depth: 90-200 m)	(1981-1985)	1:200	Geological column of the Well No. 337, "Khujiriin"
55	3865 (81)	40(55-010/07200)	Erdenet West	Khujiriin gol	No.337 drill holl data (depth: 200-342 m)	(1981-1985)	1:200	Geological column of the Well No. 337, "Khujiriin"

Table A-6 List of geological data around mineral occurrences of the central north area (Phase II survey)

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Index No.	Map No.	Appendix No.	District	Occurrence	Contents	Reported year (Investigated year)	Scale	Map name
56	1909 (22)	22	Erdenet West	Khutul nuur (Mogoin gol?)	No.1 drill holl data (geology and analysis results (Cu, Mo))	1970	1:200	Geological column of the Well No. 1, "Khutul Nuur"
57	1909 (23)	23	Erdenet West	Khutul nuur (Mogoin gol?)	No.2 drill holl data (geology)	1970	1:200	Geological column of the Well No. 2, "Khutul Nuur"
58	(5)	5	Murun West	Ulaannuur	No.1 drilling log (geology)	1991	1:250	Well No. 1, Ulaan Nuur-1 occurrence
59	(6)	6	Murun West	Ulaannuur	No.2 drilling log (geology)	?	1:250	Well No.2, Ulaan Nuur-1 occurrence
60	(7)	7	Murun West	Ulaannuur	No.4 drilling log (geology)	1991	1:250	Well No.4, Ulaan Nuur-1 occurrence
61	(8)	8	Murun West	Ulaannuur	No.3 drilling log (geology)	?	1:250	Well No. 5, Ulaan Nuur-1 occurrence
62			Tosontsengel		No.11-16 drill holl data (geology, analysis data (Mo, W, Cu, Pb, Zn, Sn))	?	1:600	Driling well column of prospecting area and its section
63	3122 (28)	26	Tosontsengel	Quartzite	No.3 drill holl data (geology, analysis results (Mo, Cu, Zn, Pb))	(1978-19..)	1:200	Geological column, well No.3, Area "Quartzite"
64		1	Tosontsengel	Naranbulag	Geological map and section	(1978-1979)	1:200,000	Location map. Area "Naran Bulag"
65	3212	2	Tosontsengel	Naranbulag	Geological map including the location of trenches, sampling points and drill holls	1980 (1977-1979)	1:5,000	Geological map of Copper ore occurrence Naranbulag
66	3684 (1)	1	Tariat	Solongotiin gol	Geological map, section and column	1983	1:200,000	Geological map, Solongot and Solongyn Gol
67	2256(35)		Murun West	Tsagaan tolgoi	No.1 drill holl data (geology)	1974	1:200	
68	2256(36)	21	Murun West	Tsagaan tolgoi	No.2 drill holl data (geology and analysis results (Pb, Mo, W, Sn, Cu, Zn))	1974	1:200	
69	2256(37)		Murun West	Tsagaan tolgoi	No.3 drill holl data (geology and analysis results (Cu, Mo, W, Pb, Zn))	1974	1:200	

Table A-6 List of geological data around mineral occurrences of the central north area (Phase II survey)

Index No.	Map No.	Appendix No.	District	Occurrence	Contents	Reported year (Investigated year)	Scale	Map name
70	2256(38)	23	Murun West	Tsagaan tolgoi	No.4 drill holl data (geology and analysis results (Cu, Mo, Zn))	1974	1:200	
71	2256(39)	24	Murun West	Tsagaan tolgoi	No.5 drill holl data (geology and analysis results (Cu, Mo, W, Pb, Zn))	1974	1:200	
72	2256(40)	26	Murun West	Tsagaan tolgoi	No.6 drill holl data (geology and analysis results (Pb, Mo, W, Sn, Ag, Cu, Zn))	1974	1:200	
73	2256(41)	26	Murun West	Tsagaan tolgoi	No.7 drill holl data (geology and analysis results (Pb, Mo, Sn, Ag, Cu, Zn))	1974	1:200	
74	2256(42)	27	Murun West	Tsagaan tolgoi	No.8 drill holl data (geology and analysis results (Pb, Mo, W, Su, Ag, Cu, Zn))	1974	1:200	
75	2256()	28	Murun West	Tsagaan tolgoi	No.9 drill holl data (geology and analysis results (Pb, Mo, W, Sn, Ag, Cu, Zn))	1974	1:200	
76	2256()	18	Murun West	Tsagaan tolgoi	Geological section by the data of No. 1, 3, 4, 5, 8 drill hole	1974	1:500	
77	2256()	19	Murun West	Tsagaan tolgoi	Geological section by the data of No. 6, 4, 7, 9 drill hole	1974	1:500	

Table A-7 List of geological, geochemical, and geophysical maps around the Erdenet mine

Index No.	Original title of the map (in Russian)	Name of the area (in English)	Kind of the map	Scale	Published Year
4-1	Геологическая Карта: Участка Хучжирьин-Центральный	Hujiriin Gol	Geology (central)	1:5,000	1990
4-2	Участок Хучжирьин: Схематическая Геологическая Карта	Hujiriin Gol	Geology	1:10,000	1985
4-3	Участок Хучжирьин: Схематическая Геологическая Карта	Hujiriin Gol	Geology	1:25,000	1985
4-4	Участок Хучжирьин: Карта Аномалий Свинца, Цинка и Серебра	Hujiriin Gol	Geochemical anomaly (Pb, Zn, Ag)	1:25,000	1985
4-5	Участок Хучжирьин: Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Hujiriin Gol	Geochemical association and coefficient zonation	1:25,000	1985
4-6	Участок Хучжирьин: Карта Аномалий Меди и Молибдена	Hujiriin Gol	Geochemical anomaly (Cu, Mo)	1:25,000	1985
4-7	Участок Хучжирьин: Карта Аномалий Меди и Молибдена	Hujiriin Gol	Geochemical anomaly (Cu, Mo)	1:10,000	1985
4-8	Участок Хучжирьин: Карта Аномалий Свинца, Цинка и Серебра	Hujiriin Gol	Geochemical anomaly (Pb, Zn, Ag)	1:10,000	1985
4-9	Участок Хучжирьин: Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Hujiriin Gol	Geochemical association and coefficient zonation	1:10,000	1985
4-10	Участок Хучжирьин: Геологические (unknown) Профилям II-II, I-I	Hujiriin Gol	Geological section (I-I line, II-II line)	1:2,000	1985
4-11	Участок Шанд: Схематическая Геологическая Карта	Shand	Geology	1:25,000	1985
4-12	Участок Шанд: Карта Фактического Материала	Shand	Actual material	1:25,000	1985
4-13	Участок Шанд: Результаты Геофизических Работ Методом ВП-СГ, Магниторазведки	Shand	IP (ВП-СГ method) & magnetics	1:10,000	1985
4-14	Участок Шанд: Результаты Электроразведочных Работ Методом ВЭЗ-ВП	Shand	IP (ВЭЗ-ВП method), ηK isoline & ρK isoline	1:10,000	1985
4-15	Рудопроявление Шанд: Схематическая Геологическая Карта, Разрезы по Линиям I-I, II-II, III-III, IV-IV	Shand	Geology & Geological section (I-I line, II-II line, III-III line, IV-IV line)	1:5,000/1:2,000	1985
4-16	Участок Цзалугийн: I. Карта Фактического Материала II. Схематическая Геологическая Карта	Zaluu	Geology	1:25,000	1985
4-17	Участок Цзалугийн: Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Zaluu	Geochemical association and coefficient zonation	1:25,000	1985
4-18	Участок Цзалугийн: Результаты Геофизических Работ Методом ВП-СГ, Магниторазведки	Zaluu	IP (ВП-СГ method) & magnetics	1:25,000	1985
4-19	Участок Домбацэрин: I. Карта Фактического Материала II. Схематическая Геологическая Карта	Dambasteren	Geology	1:25,000	1985
4-20	Участок Халиун: Схематическая Геологическая Карта и Карта Фактического Материала	Haliun	Geology	1:25,000	1985
4-21	Участок Халиун: Результаты Геофизических Работ Методом ВП-СГ, Магниторазведки	Haliun	IP (ВП-СГ method) & magnetics	1:25,000	1985
4-22	Участок Ингэтуин: I. Карта Литохимического Опробования II. Карта Аномалий Меди и Молибдена	Inget	Litho-geochemical sampling and anomaly (Cu, Mo)	1:25,000	1985
4-23	Участок Ингэтуин: I. Карта Аномалий Свинца, Цинка и Серебра II. Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Inget	Geochemical anomaly (Pb, Zn, Ag) & geochemical association and coefficient zonation	1:25,000	1985
4-24	Участок Ингэтуин: Результаты Геофизических Работ Методом ВП-СГ, Магниторазведки	Inget	IP (ВП-СГ method) & magnetics	1:25,000	1985
4-25	Участок Турмалиновья: I. Карта Фактического Материала II. Схематическая Геологическая Карта	Tourmaline	Geology	1:25,000	1985
4-26	Участок Турмалиновья: Схематическая Геологическая Карта Аномалии лкВП И Разрезы по Профилям Буровых Работ	Tourmaline	Geology, ηK -В п anomaly & section by drillings	1:2,000	1985

Table A-7 List of geological, geochemical, and geophysical maps around the Erdenet mine

(2/3)

Index No.	Original title of the map (in Russian)	Name of the area (in English)	Kind of the map	Scale	Published Year
4-27	Участок Турмалиновый: Результаты Геофизических Работ Методом ВП-СГ, Магниторазведки	Tourmaline	IP (В П-С Г method) & magnetics	1:25,000	1985
4-28	Участок Могой: Схема Геологического Строения, План Изолиний Кажущей Поляризуемости (η_k), План Изолиний Кажущегося Удельного Сопротивления (ρ_k), План Графиков (η_k и ρ_k)	Mogoi	Geological structure & IP (η_k , ρ_k)	1:10,000	1985
4-29	Участок Турмалиновый и Могой: Результаты Электроразведочных Работ Методом ВЭЗ-ВП	Tourmaline & Mogoi	IP (В ЭЗ-В П method)	1:10,000	1985
4-30	Участок Могой: Карта Аномалий: I. Cu, Mo; II. Pb, Zn, Ag; III. Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Mogoi	Geochemical anomaly (I. Cu, Mo; II. Pb, Zn, Ag) & geochemical association and coefficient zonation	unknown	1985
4-31	Участок Цзоухийн: Геологические Разрезы По Профилям 12	Zohiin	Geological section (Section 12; 9, 5)	1: 2,000	1985
4-32	Участок Цзоухийн: I. Карта Аномалий Меди и Молибдена, II. Карта Аномалий Свинца, Цинка и Серебра, III. Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Zohiin	Geochemical anomaly (I. Cu, Mo; II. Pb, Zn, Ag) & geochemical association and coefficient zonation	1:25,000	1985
4-33	Участок Цзоухийн: Результаты Электроразведочных Работ Методом ВЭЗ-ВП	Zohiin	IP (В ЭЗ-В П method)	1:10,000	1985
4-34	Участок Цаган-Чулуту: Результаты Геофизических Работ Методом ВП-СГ, Магниторазведки	Tsugaan Chuluut	IP (В П-С Г method) & magnetics	1:25,000	1985
4-35	Участок Цаган-Чулуту: Карта Полей Величин Мультипликативного Показателя и Коэффициента Зональности	Tsugaan Chuluut	Geochemical association and coefficient zonation	1:25,000	1985
4-36	Северной Части, Эрдэнтуинского Рудного Района В МНР: Геологическая Карта	North of Erdenet Ovoo NW deposit	Geology	1:50,000	1973
4-37	Северной Части, Эрдэнтуинского Рудного Района В МНР: Карта Результатов Литохимического Опробования	North of Erdenet Ovoo NW deposit	Litho-geochemical sampling	1:50,000	1973
4-38	Карта Фактического Материала По Поисковым Маршрутам	North of Erdenet Ovoo NW deposit	Actual data for geological prospecting	1:50,000	1973
4-39	Участок Цаган-Чулуту: Карта Фактического Материала, Схематическая Геологическая Карта	Tsugaan Chuluut	Actual data & geology	1:25,000	1985
4-40	Рудной Зоны Эрдэнтуин-обо В МНР: Геологическая Карта	Erdenet Ovoo NW deposit	Geology	1:25,000	1973
4-41	Рудной Зоны Эрдэнтуин-обо В МНР: Карта Изодинам Магнитного Поля (ΔZ)	Erdenet Ovoo NW deposit	Magnetics	1:25,000	1973
4-42	Северо-Западного Участка Месторождения Эрдэнэтийн-Овоо: Геологическая Карта	Erdenet Ovoo NW deposit	Geology (6 sets)	1:2,000	1988
4-43	Схематическая Геологическая Карта Района Работ	Erdenet Ovoo NW deposit	Geology	1:50,000	1988
4-44	Карта Изолиний ΔZ Эрдэнэтской рудной Зоны	Erdenet Ovoo NW deposit	Magnetics (3 sets)	1:10,000	1988
4-45	Карта Изолиний Кажущейся Поляризуемости Эрдэнэтской Рудной Зоны	Erdenet Ovoo NW deposit	IP (3sets)	1:10,000	1988
4-46	Карта Изоом Кажущегося Сопротивления Эрдэнэтской Рудной Зоны	Erdenet Ovoo NW deposit	Resistivity (2sets)	1:10,000	1988
4-47	Карта Результатов Литохимического Опробования: Моноэлементные Аномалии Меди И Молибдена	Erdenet Ovoo NW deposit	Geochemical anomaly (Cu, Mo) (6 sets)	1:50,000	1985

Table A-7 List of geological, geochemical, and geophysical maps around the Erdenet mine

(3/3)

Index No.	Original title of the map (in Russian)	Name of the area (in English)	Kind of the map	Scale	Published Year
4-48	Карта Результатов Литохимического Опробования: Моноэлементные Аномалии Свинца, Цинка, Серебра	Erdenet Ovoo NW deposit	Geochemical anomaly (Pb, Zn, Ag) (6 sets)	1:50,000	1985
4-49	Карта Результатов Литохимического Опробования: Мультипликативные Аномалии. Коэффициент Зональности	Erdenet Ovoo NW deposit	Geochemical association and coefficient zonation (6 sets)	1:50,000	1985

* Descriptions of all the maps are written in Russian.

Table A-8 List of geophysical surveys of the central north area

(1/3)

1	Number	1	2	3
2	Report number	5031	4788	4622
3	Area	M-48-67AB,-66AB,-65B,-56C,-55CD,-54CD;	M-48-127B,-128;	M-48-104-B,C,D.
4	Coordinate			
5	Year of the survey	1994-1996	1992-1993	1990-1992
6	Method	Vertical electrical sounding (80 point' s).	Magnetic survey at scale 1:10,000.	Magnetic surey, Induced polarization, Vertical electrical sounding.
7	specification	Geological mapping (at scale 1:50,000).	Geological mapping (at scale 1:50,000).	at scale 1:10 000.
8	Objective	Determine the depth of the Quaternary sediments.	Select prospective fields.	Geological mapping (at scale 1:50 000).
9	Results	Made the 10 geological section of the Quaternary sediments.	Selected Salhit field.	Select prospective fields.
10	Follow-up drillings	Non	Drilling.	Rotary percussion drilling.
11	Total length of drill hole		954m	1466.2m.

1	Number	4	5	6
2	Report number	4597	4403	4633
3	Area	M-48-125-D,-137,138, L-48-5-A,B.	M-48-125-D,-137,138, L-48-5-A,B.	M-47-82ACD;M-47-81CD;M-47-92BD;M-47-93;M-47-94;M-47-95AC;
4	Coordinate			
5	Year of the survey	1987-1991	1987-1992	1986-1991
6	Method	Vertical electrical sounding, route-magnetic and induced polarization, gamma-spectrometer, logging (magnetic, induced polarization, gamma).	Vertical electrical sounding, route-magnetic and induced polarization, gamma-spectrometer, logging (magnetic, induced polarization, gamma).	Vertical electrical sounding, route-magnetic and induced polarization, gamma-spectrometer, logging (magnetic, induced polarization, gamma).
7	specification	Geological mapping (at scale 1:50,000).	Geological mapping (at scale 1:50,000).	Geological mapping (at scale 1:50,000).
8	Objective	Determine the deep of the Quaternary sediments.	Determine the depth of the Quaternary sediments.	Determine the depth of the Quaternary sediments.
9	Results	Made the geological section of the Quaternary sediments.	Made the geological section of the Quaternary sediments.	Made the geological section of the Quaternary sediments.
10	Follow-up drillings	Core drilling.	Core drilling.	Core drilling.
11	Total length of drill hole	2,563m.	2,563m.	2,563m.

1	Number	7	8	9
2	Report number	4428	3979	3283
3	Area	M-47-77-B,D, M-47-78-A,B, M-47-98-B, M-47-90-A.	M-48-137-D,-138-CD,-139-AC,L-48-6-AB,-7-A;	(103.00'-105.30')-(48.00'-49.40')
4	Coordinate			
5	Year of the survey	1987-1989	1982-1985	1964-1966
6	Method	Magnetic,Vertical electrical sounding, Induced polarization survey (at scale 1:10,000).	Electric-magnetic survey. gamma, gamma-gamma logging	Vertical electrical sounding, Self-potential, Electric-magnetic, Radiometric, Logging.
7	specification	Geological mapping (at scale 1:50,000).	Geological mapping (at scale 1:50,000).	Geological mapping (at scale 1:50 000).
8	Objective	Select prospective fields.	Select prospective fields.	Select prospective fields.
9	Results	Selected following fields: Jinst, Tsagaan uul.	Selected following fields: Badarah, Tsagaan chuluut.	Selected Erdenet(1.north-west, 2.central, 3.south-east), Tsagaan chuluut, Aguin davaa fields.
10		Jinst(98.17' 10"-98.22' 30")x(49.33' 20"-49.36' 45"); Tsagaan uul(98.40' 40"-98.44' 30")x(49.52' 15"-54' 20");		
11	Follow-up drillings	Core drilling.	Core drilling.	Drilling.
12	Total length of drill hole	Total 2,987m Tsagaan uul (11-16 holes, deep 90-210m), Jinst (1-10 holes, deep 45-150m).	6/96.9m, 10/146.7m, 14/89.3m, 15/143.5m: (number is hole/deep meters).	2069.6m

Table A-8 List of geophysical surveys of the central north area

1	Number	10	11	12
2	Report number	2924	4552	605
3	Area	M-48-109-C		
4	Coordinate		(101,30'00"-106,00'00")-(49,15'00"-50,30'00").	(94.00'00"-98.00'00")X(48.30'00"-frontier).
5	Year of the survey	1977-1978	1986-1990	1952
6	Method	Magnetic, Vertical electrical sounding, electrical profiling, radiometer, natural electric field.	Magnetic (at scale 1:10,000-1:5,000), Electric profiling (at scale 1:5,000), Vertical electrical sounding, Gamma spectrometer by the foot.	Aeroradiometer-Aeromagnetic survey at scale 1:50,000.
7	specification	Geological mapping (at scale 1:50,000).	Geological mapping (scale at 1:200,000).	Aerogeophysical survey at scale 1:50,000.
8	Objective	Select prospective fields.	Select prospective fields.	Select prospective fields.
9	Results	Selected following fields: Sarain hundii, Zun Orsog uul, Hustain ovoo, Mogoin gol, Oshig uul, Huljiin gol.	Selected following fields: 1. Ereen, 2. Duut gol, 3. Tsagaan shar, 4. Uvur bayasgalan.	Selected following fiels: 1. Bayan uul, 2. Ust nuur, 3. Oigon nuur, and not name's fields in the M-47-75,-85,-86,-88.
10	Follow-up drillings	Drilling.	Drilling	No
11	Total length of drill hole	525m	7,121m.	

1	Number	13	14	15
2	Report number	2429	2432	2433
3	Area			
4	Coordinate	(45.20'00"-50.00'00")X(103.30'00"-109.00'00").	(102.00'-106.00')X(46.20'-50.20').	(92.00'-102.00')X(47.30'-formtier).
5	Year of the survey	1982	1983	1984
6	Method	Aerogeophysical survey (magnetic, gamma-ray spectrometer) at scale 1:200,000; auto gamma spectrometer, foot gamma spectrometer, electric profiling, magnetic survey (at scale 1:10,000), gamma logging.	Aero gamma-spectrometer at scale 1:200,000, Autogamma and foot gamma-spectrometer,electric profiling (at scale 1:10,000), gamma logging.	Aero gamma-spectrometer at scale 1:200,000, Autogamma and foot gamma-spectrometer,electric profiling (at scale 1:10,000).
7	specification	Aerogeophysical survey at scale 1:200,000.	Aerogeophysical survey at scale 1:200,000 (for Uranium).	Aerogeophysical survey at scale 1:200,000 (for Uranium).
8	Objective	Select prospective fields.	Select prospective fields.	Select prospective fields.
9	Results	did not select prospective fields.	Selected 18 aeromagnetic anomalies and 25 aeroradiometric anomalies.	Selected 8 ray anomals and Dagin gol, Bayar, Sul, Songin, Chuluut, Ushig gol, Balbar, Yarhis gol, Ar gol, Alag-erdene, Ih uul fields.
10	Follow-up drillings	Drilling	No	Drilling (deep is to 50m).
11	Total length of drill hole	593m.		3,615m.

1	Number	16	17	
2	Report number	3199	3492	
3	Area			49.49',100.07'-49.38',100.30'-49.38',100.30'-50.32',100.00'-50.29',99.21'-50.16').
4	Coordinate	Erdenet (103.30'-48.40';104.50'-48.40';103.30'-49.02';104.50'-49.10'); Murun (99.45'-49.38';100.07'-49.38';99.45'-49.55';100.18'-49.49';100.00'-50.02';100.18'-50.00').	1.Huvsgul (99.21'-49.30',99.45'-49.38',99.45'-49.55',100.18'-50.00',100.18'-50.00',100.18'-50.00'), 2. Bulgan (103.05'-48.32',103.30'-48.40',103.30'-49.02',103.05'-48.58'), 3.	Erdenet (103.46'-49.02',104.16'-49.05',104.16'-49.28',103.46'-49.27').
5	Year of the survey	1980	1981-1982	
6	Method	Aeromagnetic gamma-spectrometer survey at scale 1:50,000 and magnetic, gamma-spectrometer survey at scale 1:25,000-1:10,000.	Aeromagnetic gamma-spectrometer survey at scale 1:50,000.	
7	specification	Aerogeophysical survey at scale 1:50,000.	Aerogeophysical survey at scale 1:50,000.	
8	Objective	Select prospective fields.	Select prospectiv fields.	
9	Results	Selected following fields: 1. Ehnii, 2. Undur, 3. Murun, 4. 5 fields of the around Erdenet (Dugan, Shand, Zuhiin gol).	Selected 34 anomalies in the Huvsgul area and 20 anomalies in the Bulgan-Erdenet area.	
11	Follow-up drillings	No	No	

Table A-8 List of geophysical surveys of the central north area

(3/3)

1	Number	18	19	20
2	Report number	3988	4240	4396
3	Area			M-48-109,110,111,121,122,123,134,135,L-48-3,4,5,6,7,15,16,17,18,19,29.
4	Coordinate	(103.10'-106.50')X(47.50'-48.40').	(102.40'-103.10')X(48.35'-48.55') and (104.20'-106.00')X(48.30'-50.10').	(102.00'-103.15')X(48.00'-49.00') and (103.15'-105.30')X(47.20'-48.00').
5	Year of the survey	1984-1985	1986-1987	1988-1990
6	Method	Aeromagnetic electric gamma-spectrometer survey at scale 1:50,000. and Magnetic, gamma spectrometer, induced polarization-average gradient at scale 1:25,000-1:5,000.	Aeromagnetic electric gamma-spectrometer survey at scale 1:50,000. Magnetic, Gamma spectrometric, induced polarization at scale 1:25,000-1:5,000.	Aerogeophysical survey scale at 1:50,000 (follow-up geophysical survey at scale1:10,000).
7	specification	Aerogeophysical survey at scale 1:50,000.	Aerogeophysical survey at scale 1:50,000.	Aerogeophysical survey at scale 1:50,000.
8	Objective	Select prospective fields.	Select prospective fields.	Selected prospectiv fields.
9	Results	Selected following fields: 1.Argal, 2.Baraan hudag, 3.Burgaltai, 4.Oyut owoo, 5.Tsabchir bulag, 6.Ulziit owoo, 7.Tsengeg us, 8.Tsagaan hooloi, 9.Bulagt gol.	Selected following fields: Ar bulag, Tsalman uul, Uvur teeliin gol, Sant tolgoi, Barun teel, Nuhen, Huh hadat, Bulagt gol, Burgaltai, Lun, Huh belt uul, Ulaan uul, Chuluun horoot tolgoi, Hairthan, Jargalant, Narst tolgoi, Barun ded.	Selected following fields: 1. Lamzah tolgoi, 2. Shubuut, 3. Huh chuluut, 4. Hotol, 5. Barchgar, 6. Ar bulag, 7. Uushig, 8. Hoid oortsog, 9. Ugalz, 10. Uran hoshuu, 11. Shar had, 12. Tsagaan gozgor, 13. Holboo owoo, 14. Ih hush, 15. Mogod.
10	Follow-up drillings	No	No	No
11	Total length of drill hole			
1	Number	21	22	23
2	Report number	3865	3172	3940
3	Area	M-48--XX,XXI,XXVI,XXVIII.		M-46,-47,L-47,-48,-49.
4	Coordinate		(48.00':99.00')-(50.00':99.00')-(50.00':102.00')-(50.35':102.00')-(48.00':102.00')-(47.00':102.00')-(50.10':104.00')-(47.00':104.00').	
5	Year of the survey	1981-1985	1979-1980.	1985-1990.
6	Method	Magnetic(1:5,000-1:10,000), Electric (induced polarization-average gradient, vertical electrical sounding-induced polarization), ray radiometric.	Aeromagnetic and magnetic survey.	Aeromagnetic, aerogamma spectrometric survey at scale 1:500,000, 1:200,000 and 1:50,000.
7	specification	Copper and moludinium.	Aerogeophysical survey at scale 1:200,000.	Aerogeophysical survey at scale 1:500,000.
8	Objective	Select prospective fields.	Select prospective fields.	Select prospective fields.
9	Results	Selected following fields: 1. Nurain, 2. Tarimaliin, 3. Iitiin, 4. Havchuu, 5. Buhain, 6. Hujiriin, 7. Mogoin, 8. Inget, 9. Zuhiin, 10. Tsagaan chuluut, 11. Zaluugiin, 12. Dambatseren, 13. Haliun, 14. Chuluut, 15. Oyut, 16. Turmalin, 17. Shand.	Selected 28 fields.Following: Egiin gol, Saihan, Het, Murun, Burentogtoh, Tamiriin gol, Ih bumbut, Ulziit, Arc hargan, Dejidiin, Ar bulag, Bulgan, Erin gol, Jargalant, Tsagaan tolgoi, Bayan zurh, Tsaidam nuur, Hadagiin gol, Burenhaan, Holightsiin, Ulaan durulj, Tsagaan burgas, Zalaat, Chuluut, Tsahir, Gurvan bulag, Burd, Har horin.	Not reports but maps have been stored in GIC.
10				No imformation.
11	Follow-up drillings	Drilling.	No.	
12	Total length of drill hole	41,020m.		

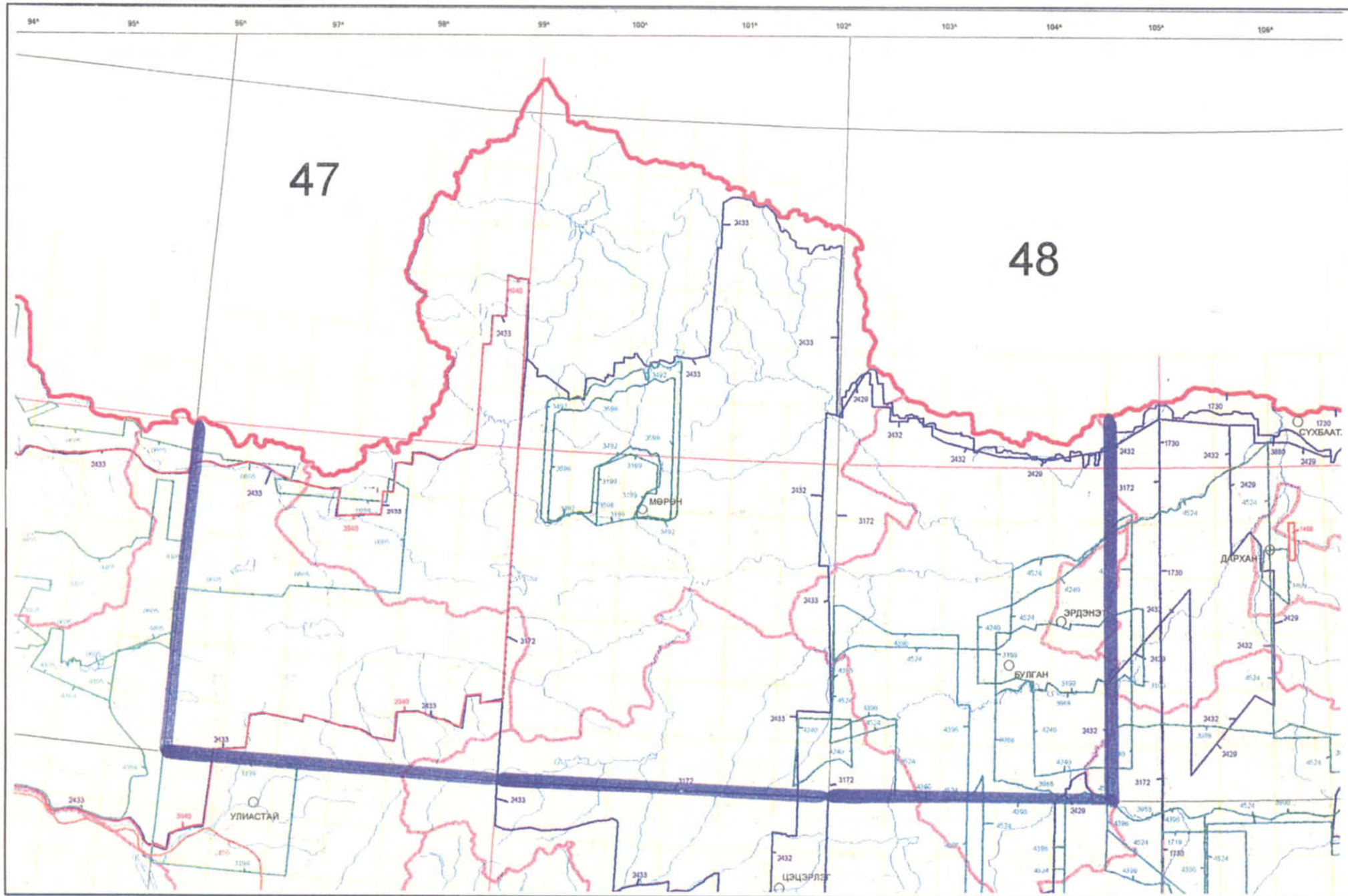


Fig. A-3 Index map of geophysical surveys of the central north area