



DOBRA BLOCK OF LITHIUM ORES

Mineral: lithium ores; accompanying minerals – tantalum ores, niobium ores, beryllium ores, rubidium ores, beryllium ores, tin ores, cesium ores.

Type, period of subsoil use: exploration & extraction, 50 years.

Location: Novoukrainskyi district of Kirovograd region.

Block area: 1707 ha, 17,07 sq.km.

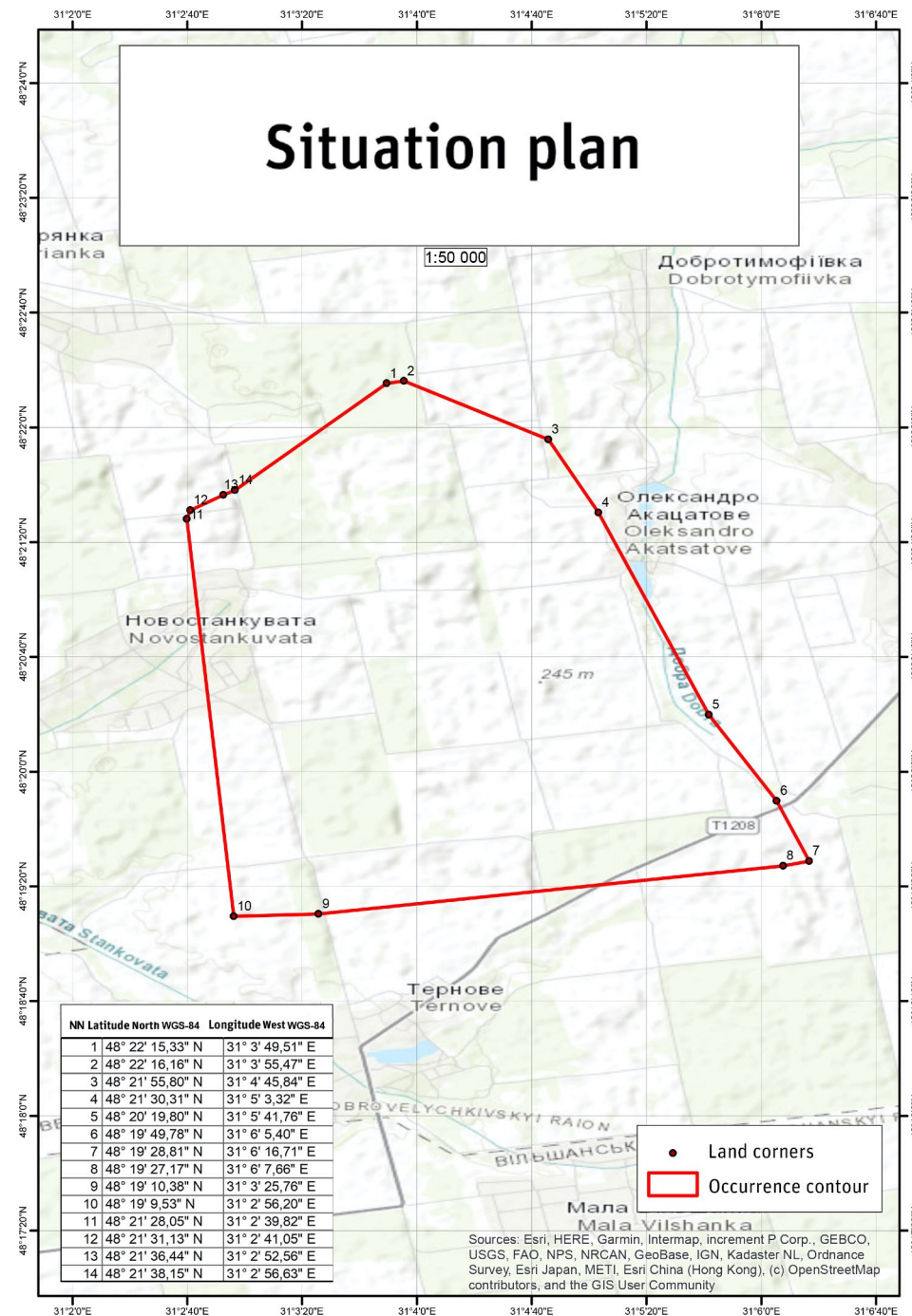
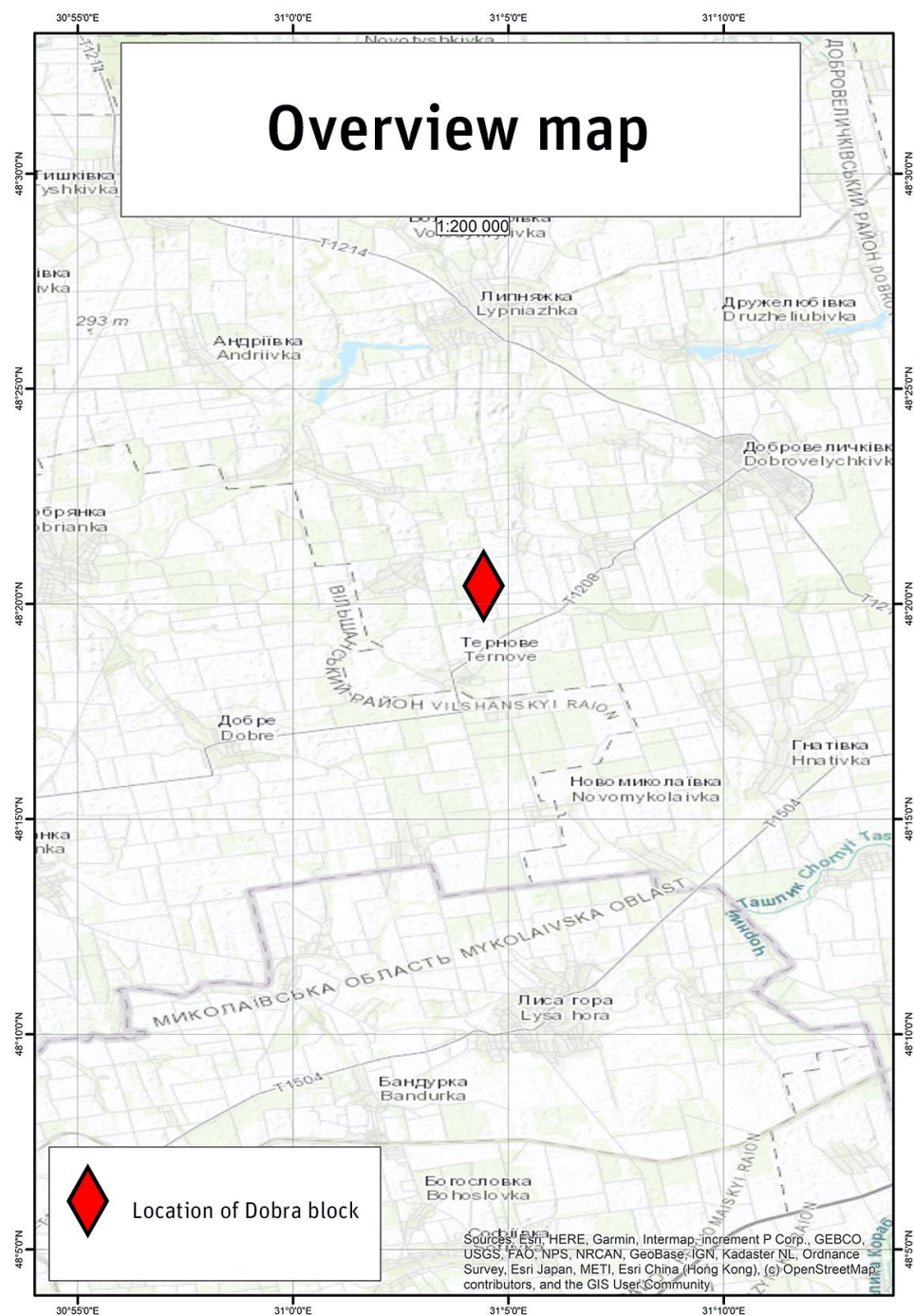
Geological summary: Geotectonically the object is located in the western part of the Kirovohrad mega block of the Ukrainian Shield within the Bratskyi composite syncline of the Early Proterozoic Era. The prospective field is confined to the Mykhailivka tectonic-metasomatic zone, which is a component of the Zvenigorod-Hannivka fault zone and borders the western part of the Lipnyazkyi granite dome. The Dobra block is located within the Stankuvatsky ore field of the Central Ukrainian (Shpolyansko-Tashlytsky) rare metal district. Pegmatites, which make up the productive ore zones of both prospective fields, belong to the sodium-lithium type. The metallogenic trend of Stankuvatsky and Nadiya prospective areas is determined by lithium, tantalum, gold, and tungsten. Often ore mineralization of different elements is spatially combined, therefore the discovered prospective object is complex. The Stankuvatsky prospective field combines the whole range of basic elements inherent in the Mykhailivka zone - lithium, tantalum, gold and tungsten. The spatial combination of lithium and tantalum ore formation is peculiar to Nadiya prospective field. The mineral of the block is represented by lithium ores podumen-petalite mineral composition (useful component - lithium). Productive ore zones of Nadiya and Stankuvatske prospective fields are vein zones of sodium-lithium pegmatites deposited in amphibole crystalline shales. The basement rocks are overlain by loose terrigenous deposits of the Meso-Cenozoic platform cover and weathering crust. The Stankuvatsky prospective field is traced for a stretch of 2 km by 6 profiles of deep wells. In its northern part it is studied by a grid of wells with a density of 350-200 x 200-100 m, in the central and southern part - 650-600x260-100 m. The host rocks are represented by amphibolites and gneisses. Lithium ores are represented by rare metal pegmatites with petalite, spodumene, triphylite, less often hilmquistite and amblygonite. Petalite predominates among ore minerals. The average content of lithium oxide in ores is 1.30%. The amount of lithium minerals in ores varies from 1-2% to 85%, on average 30-40%. The following types of ores are distinguished by the predominant lithium mineral: petalite - 32% of the total amount, spodumene - 28%, spodumene-petalite - 17% and petalite-spodumene - 23%. There are no patterns of different types placement. Mixed type prevails. Petalite ores form areas of rocks with a trunk thickness of the first to tens of meters. Lithium is associated with petalite (16-48.6%), spodumene (13.6-76%), and trifillin (3.2-8%). Lithium ores of prospective field are formed by three ore zones. Nadiya prospective field is traced for 2.1 km by 4 profiles of deep wells drilled on a grid of 800-680 x 200-130 m in the north and 370-310 x 250-100 m in the south of the ore occurrence. The productive stratum is 1,600 m in length, horizontal span 340-390 m. Lithium minerals are represented by spodumene, petalite, triphylite, less often by amblygonite and hilmquistite. Predominant is predominant. The average content of lithium oxide in ores is 1.31%. Container rocks are also represented by amphibolites and gneisses. According to the complexity of the geological structure, the block of lithium ore Dobra is classified as a deposit of complex geological structure (group 2) in accordance with the Classification of reserves and resources of minerals of the State fund of mineral reserves. Mining and geological operating conditions are characterized by a steep fall and depth of ore deposits. Significant thickness of overburden (up to 80 m) determines the choice of underground method of field development.

Available geological information: Stankuvatskyi and Nadiya lithium ore were discovered by #47 expedition of Kirovgeologiya SE in 1989 during exploration at a scale of 1:50 000 for gold and liquid metals. In 1991-2001, during prospecting lithium and gold deposits at a scale of 1:25 000-1: 10 000. In 2017, by the decision of the State Commission on Mineral Reserves of Ukraine (#4142 protocol as of November 1, 2017), the Nadiya and Stankuvatske ore were united into one ore zone - Dobra block. Calculation of lithium ore reserves of the C₂ category (class code 122) of the Stankuvatsky ore strike of the Dobra site itself is based on well data - well number (Li₂O content): No. 32-91 (0.9747%); 18-94 (1.4713%); 19-94 (1.6671%); 43-92 (1.2033%); 59-89 (1.4317%); 61-89 (Li₂O 1.1421%). The calculation of lithium ore resources of categories P₁ (class code 333) and P₂ (class code 334) of the Dobra site itself is based on well data - well number (Li₂O content): 33-91 (1.6956%); 53-90 (1.0799%); 41-92 (1.17%); 37-92 (1.6864%); 2-91 (1.0932%); 59-90 (1.5294%); 39-92 (1.5146%); 36-92 (1.34%).

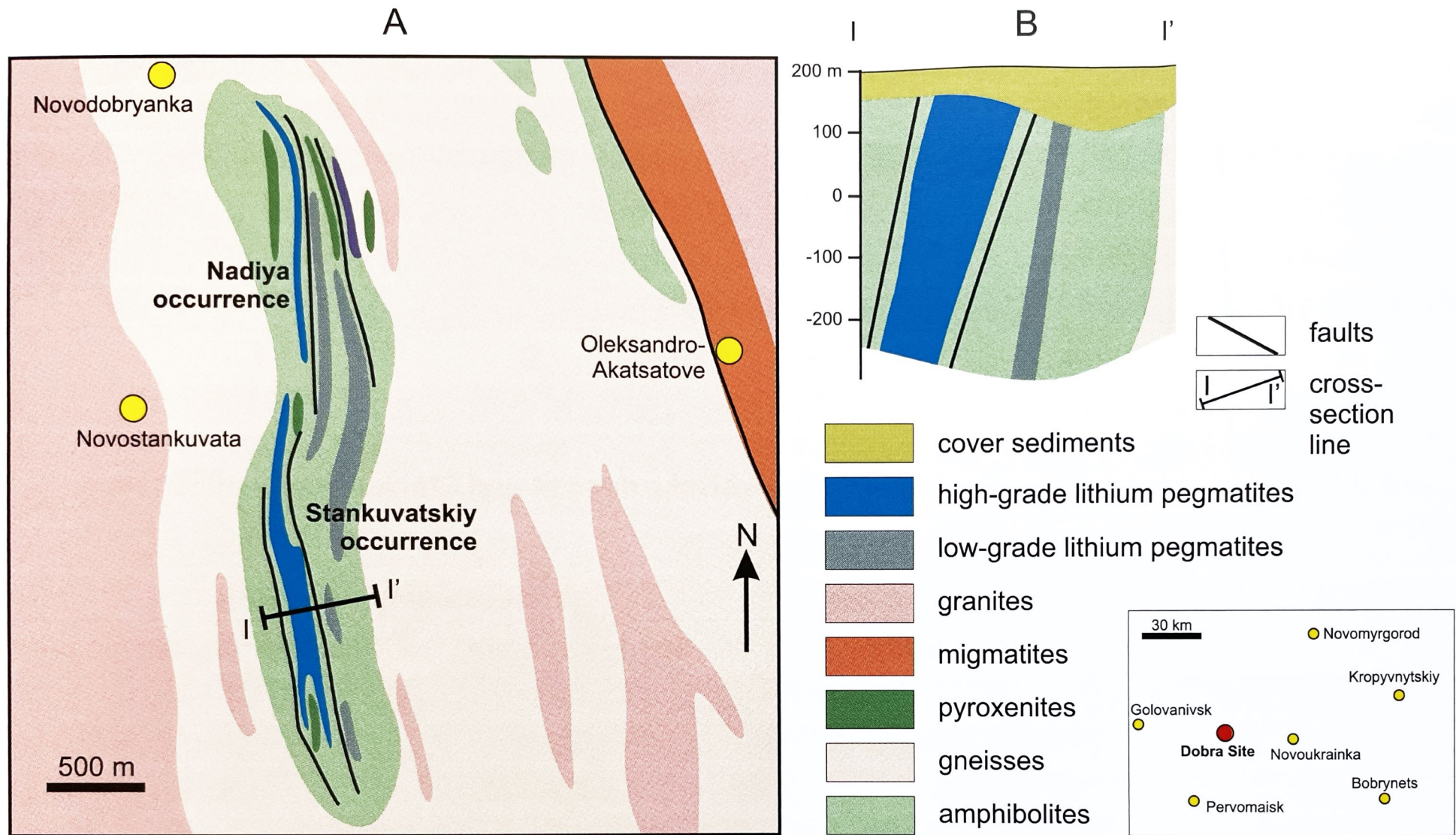
Fund materials:

1. Inv. [No. 58673](#) "Results of prospecting for lithium and gold deposits in the scale 1:25000-1:10000 in the frame of the Lipnyazhsky granite dome on an area of 100 sq.km with an assessment of revealed ore-prone and resources of category P1 and P2 for 1991-2001." (KP Kirovgeologiya, V.V. Lysenko, Smolino, 2002)
2. Minutes of the meeting of the Scientific Council on Forecasting (UkrNRP) dated July 31, 2002 No. 35.
3. Inv. No. 12806/K "Operational estimation of lithium oxide resources of the Severostankovatskoe deposit for 1992-1993." (KP Kirovgeologiya, GRE No. 47, Lysenko V.V., Kyiv, 2000).

Resources/reserves assessment. Reserves and resources of lithium ores on the site were tested by the decisions of the DKZ of Ukraine by protocol No. 4211-DSK dated 15.12.2017 and protocol No. 4461-DSK dated 8.08.18 in the amount of C₂ categories (class code 122, average Li₂O content 1.34%); P₁ (class code 333) – 1218135.1 t (average Li₂O content 1.37%) and P₂ (class code 334) – 70634.5 t (average Li₂O content 1.43%). According to UNFC, reserves and resources of lithium ores are classified as commercial reserves and resources of geological exploration. Information about the number of lithium reserves has limited access. Separately, the DKZ noted the presence in the lithium ores of the Dobra area of promising and forecast resources of associated useful components (P₁+P₂), adopted by the protocol of the meeting of the Scientific Council with forecast from 07/31/2002 under No. 35, in the amount of: Ta₂O₅ – 4745.4 tons; Nb₂O₅ – 8238.4 tons; Rb₂O₅ – 104074.0 t; BeO – 22081.5 t; SnO₂ – 4456.5 tons and Cs₂O – 7971.4 tons. In addition, according to the protocol dated 07/31/2002 under No. 35, the resources of cat. P₂ according to the Novostankuvatsky manifestation: Ta₂O₅ – 1414.22 t (0.0127-0.0134%); Nb₂O₅ – 1734.5 (0.0163%); Li₂O – 85196.1 t (0.7541%); Rb₂O₅ – 9859.3 tons; Cs₂O – 1493.6 tons; BeO – 3588.9 t; SnO₂ – 447.9 tons; WO₃ – 8862.3 t (cat. P₃; 0.177%); on the Tashlitsky ore show: Ta₂O₅ – 480.32 t (0.0106-0.0854%); Li₂O – 13596.4 t (0.6291%); Rb₂O₅ – 1371.9 tons; Cs₂O – 345.4 tons; BeO – 447.4 tons; SnO₂ – 106.9 tons; Nb₂O₅ – 903.0 t (0.0244%); on the Lutkiv manifestation: WO₃ – 2292.4 t (cat. P₃; 0.101-0.378%); on the ore show Contact: Au – 2.05 t (4.08 g/t); along the Stankuvatsky ore deposit: Au – 1.78 t (1.3-2.5 g/t). The operationally estimated resources of Li₂O in the Severostankuvatsky ore deposit are: cat.P₁ – 269.93 thousand tons and in cat.P₂ – 140.82 thousand tons with an average Li₂O content of 1.3548%.

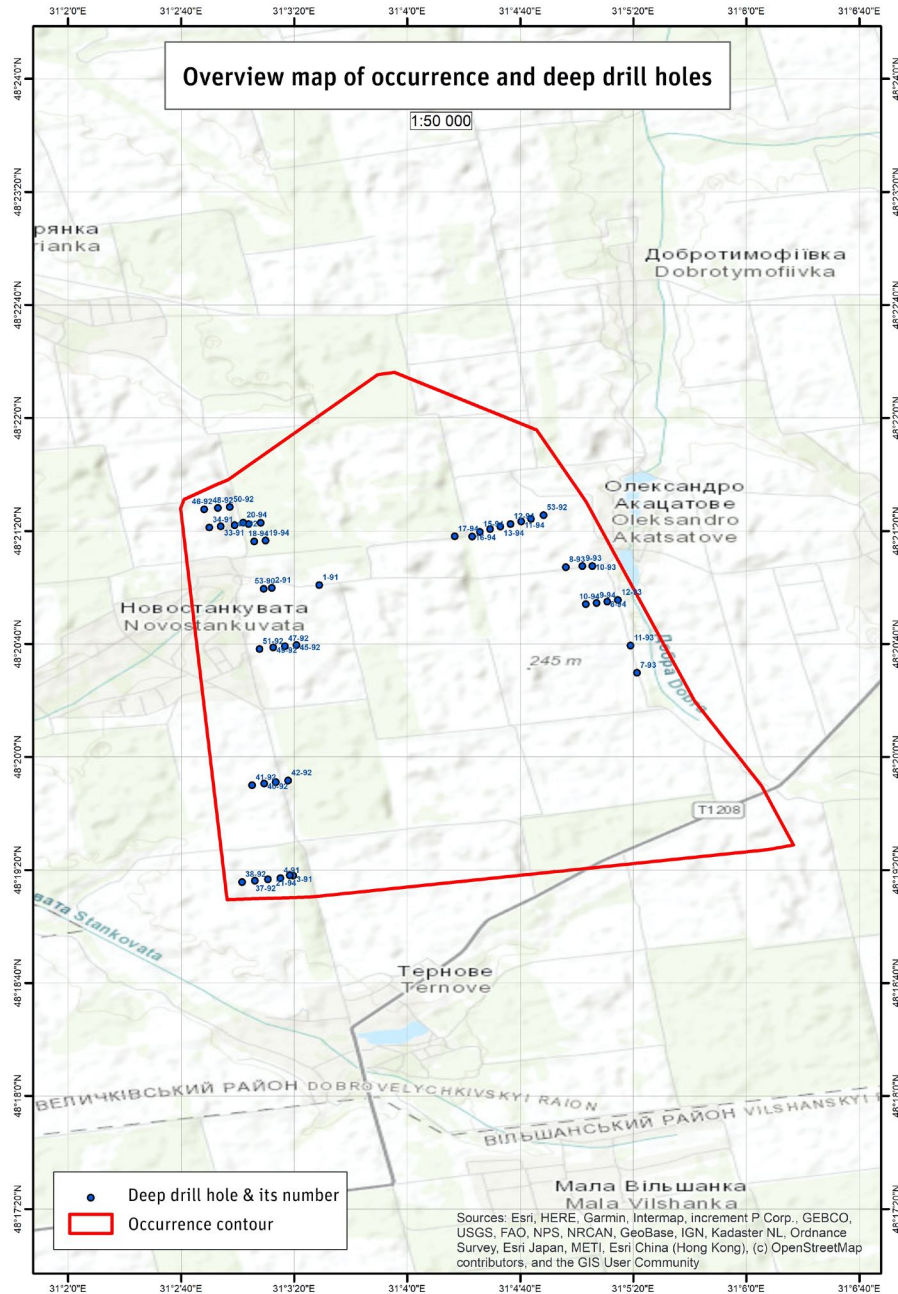


Geological map



Geological map (A) and cross-section (B) of the Dobra Site

Drill holes location

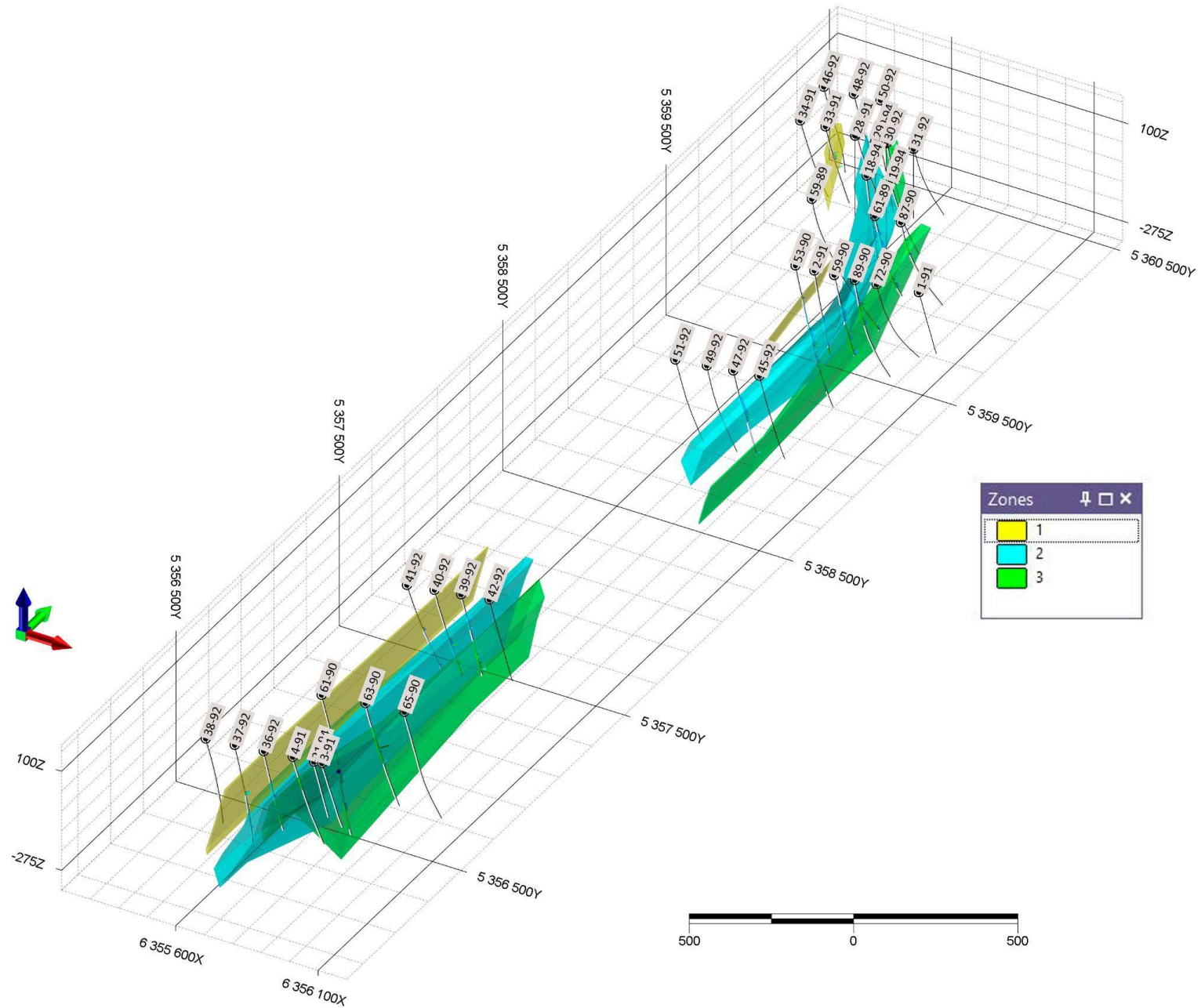


No.	Hole ID	Latitude North WGS-84	Longitude North WGS-84
1	53-90	48° 20' 59,5"	31° 3' 9,2"
2	1-91	48° 21' 0,8"	31° 3' 28,9"
3	2-91	48° 20' 59,8"	31° 3' 12,1"
4	3-91	48° 19' 18,0"	31° 3' 19,7"
5	4-91	48° 19' 17,1"	31° 3' 15,2"
6	32-91	48° 21' 22,1"	31° 2' 59,0"
7	33-91	48° 21' 21,6"	31° 2' 54,0"
8	34-91	48° 21' 21,2"	31° 2' 50,0"
9	36-92	48° 19' 16,7"	31° 3' 10,7"
10	37-92	48° 19' 16,2"	31° 3' 6,1"
11	38-92	48° 19' 15,7"	31° 3' 1,6"
12	39-92	48° 19' 51,0"	31° 3' 13,5"
13	40-92	48° 19' 50,5"	31° 3' 9,4"
14	41-92	48° 19' 50,0"	31° 3' 5,1"
15	42-92	48° 19' 51,6"	31° 3' 17,9"
16	43-92	48° 21' 22,4"	31° 3' 3,9"
17	44-92	48° 21' 22,8"	31° 3' 8,2"
18	45-92	48° 20' 39,6"	31° 3' 20,8"
19	46-92	48° 21' 27,6"	31° 2' 48,2"
20	47-92	48° 20' 39,2"	31° 3' 16,7"
21	48-92	48° 21' 28,1"	31° 2' 53,0"
22	49-92	48° 20' 38,8"	31° 3' 12,6"
23	50-92	48° 21' 28,5"	31° 2' 57,2"
24	51-92	48° 20' 38,2"	31° 3' 7,7"
25	52-92	48° 21' 24,3"	31° 4' 43,8"
26	53-92	48° 21' 25,6"	31° 4' 48,3"
27	7-93	48° 20' 29,8"	31° 5' 21,4"
28	8-93	48° 21' 7,2"	31° 4' 56,2"
29	9-93	48° 21' 7,6"	31° 5' 2,0"
30	10-93	48° 21' 7,6"	31° 5' 5,5"
31	11-93	48° 20' 39,4"	31° 5' 19,1"
32	12-93	48° 20' 55,6"	31° 5' 14,6"
33	8-94	48° 20' 55,0"	31° 5' 10,8"
34	9-94	48° 20' 54,5"	31° 5' 7,0"
35	10-94	48° 20' 54,0"	31° 5' 3,2"
36	11-94	48° 21' 23,3"	31° 4' 40,4"
37	12-94	48° 21' 22,4"	31° 4' 36,6"
38	13-94	48° 21' 21,5"	31° 4' 33,0"
39	14-94	48° 21' 20,6"	31° 4' 29,4"
40	15-94	48° 21' 19,7"	31° 4' 25,7"
41	16-94	48° 21' 18,0"	31° 4' 23,0"
42	17-94	48° 21' 18,1"	31° 4' 16,8"
43	18-94	48° 21' 16,3"	31° 3' 5,8"
44	19-94	48° 21' 16,6"	31° 3' 9,9"
45	20-94	48° 21' 22,9"	31° 3' 2,0"
46	21-94	48° 19' 18,1"	31° 3' 18,4"

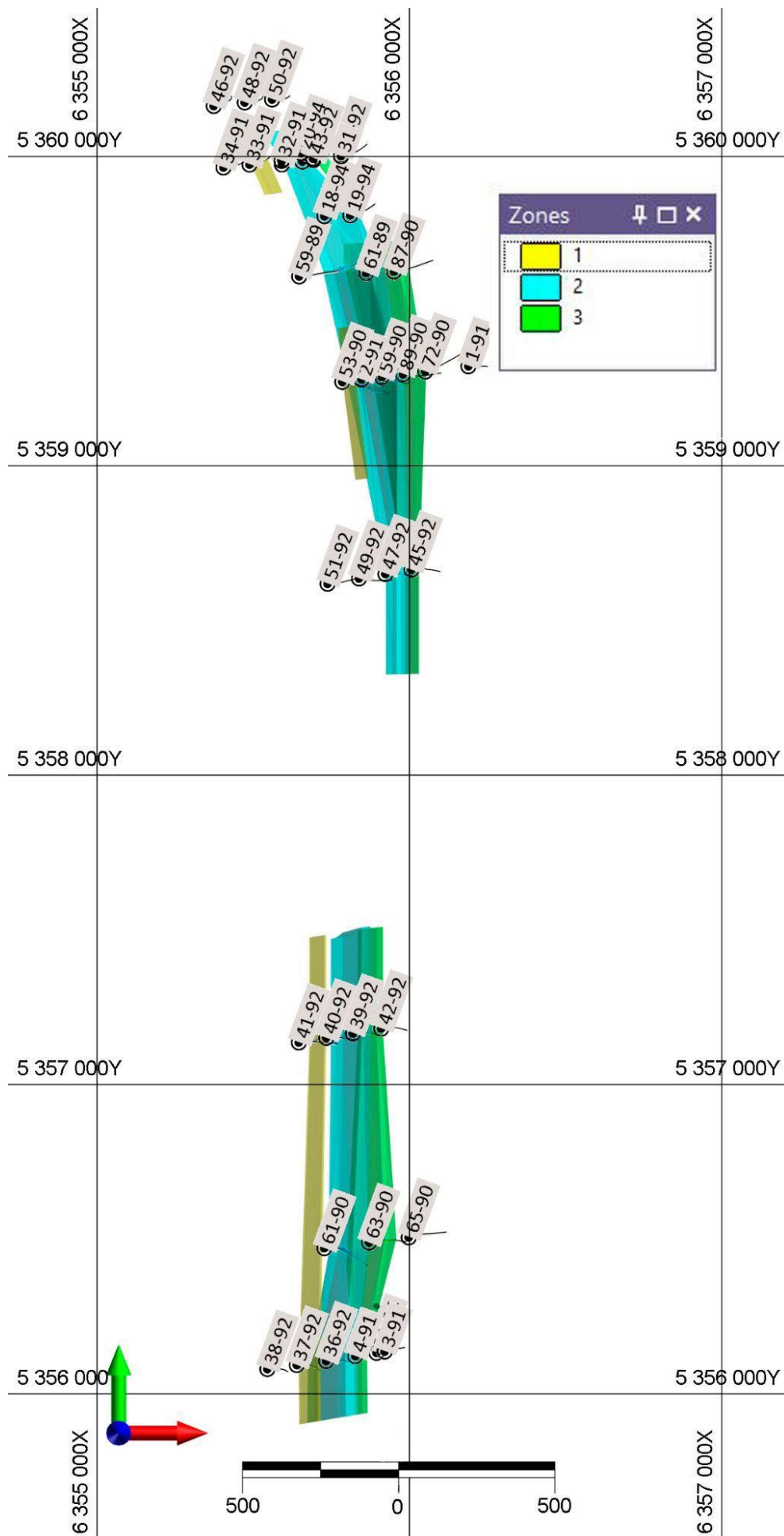
Grade of mineral commodities in the ore

No.	Drill hole No.	Grade								
		% Li ₂ O	% Ta ₂ O ₅	% WO ₃	% Rb ₂ O	% Nb ₂ O ₅	% Cs ₂ O	% BeO	% SnO ₂	g/t Au
1	53-90	1,0799	0,0122		0,8800	0,0148	0,0178	0,0124		
2	2-91	1,0932	0,0146		0,1500	0,0087	0,0034	0,0092	0,0040	
3	3-91		0,0110	0,1260						
4	4-91	1,1000	0,1090	0,1260	0,0895	0,0096	0,0038	0,0156	0,0053	
5	32-91	0,9747	0,0127		0,1453	0,0120	0,0172	0,0214	0,0014	1
6	33-91	1,6956	0,0146		0,0325	0,0143	0,0152	0,0112		
7	34-91		0,0113							1
8	36-92	1,3400	0,0101		0,0784	0,0080	0,0032	0,0116	0,0031	
9	37-92	1,5900	0,0041	0,1260	0,0868	0,0059	0,0059	0,0061	0,0215	
10	39-92	1,5146	0,0171	0,1260	0,0921	0,0034	0,0185	0,0138	0,0022	
11	40-92	1,2565	0,0159		0,1058	0,0050	0,0027	0,0129	0,0038	
12	41-92	1,1700	0,0046		0,1010	0,0090	0,0104	0,0116	0,0025	
13	43-92	1,2033	0,0106		0,0868	0,0126	0,0053	0,0133	0,0093	
14	44-92	1,4605			0,1335	0,0096	0,0045	0,0156	0,0054	
15	45-92		0,0128							
16	47-92	1,4869			0,1080	0,0054		0,0121		
17	48-92		0,0124							
18	50-92		0,0212							
19	8-93			0,1260						
20	12-93									2
21	10-94			0,3150						
22	14-94			0,2020						
23	18-94	1,4713	0,0117		0,0887	0,0099	0,0060	0,0229	0,0081	
24	19-94	1,6671			0,1206	0,0071	0,0056	0,0343	0,0086	
25	20-94		0,0104							
26	21-94		0,0085	0,1260						

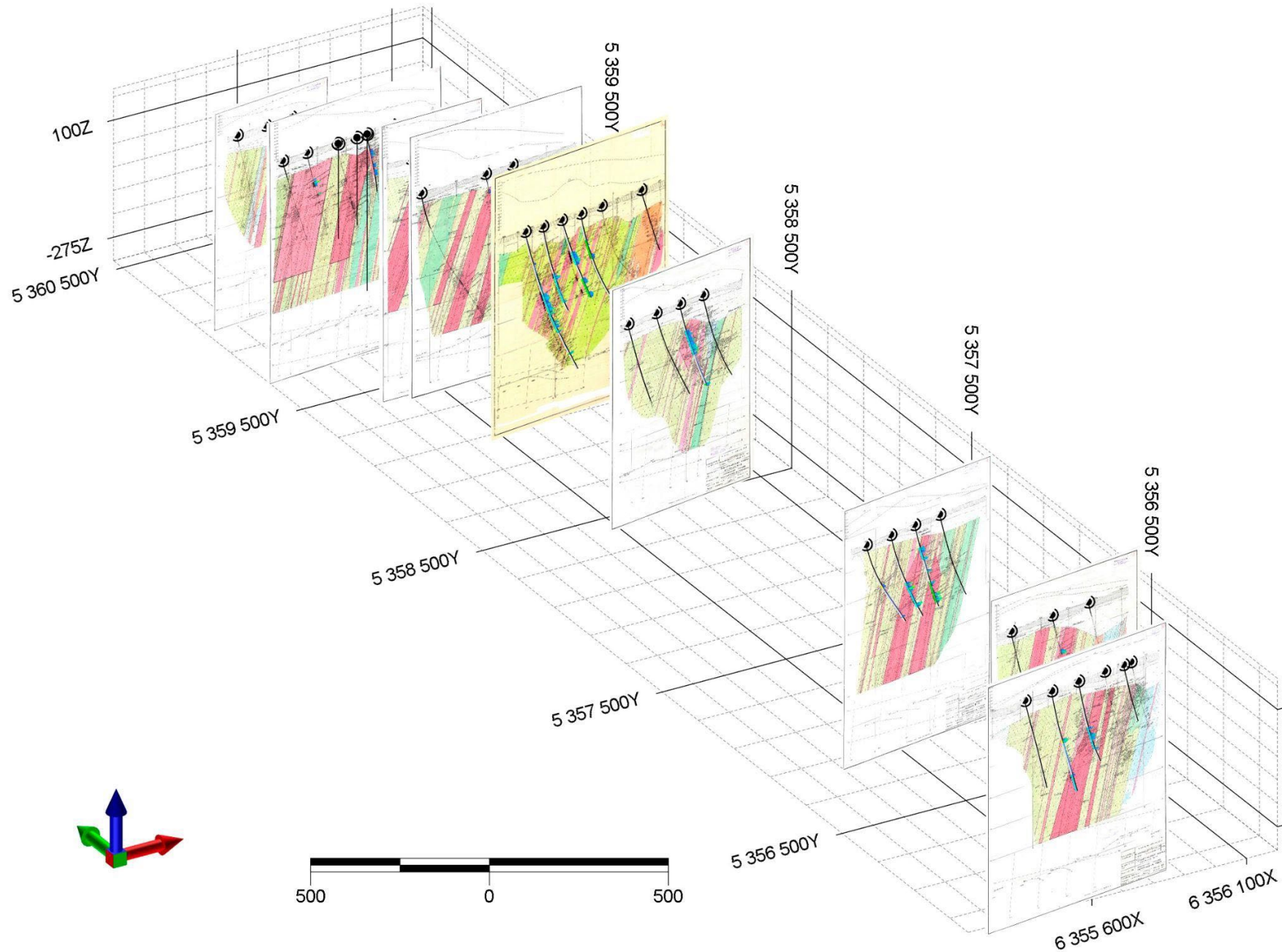
3D models of the mineralization zones



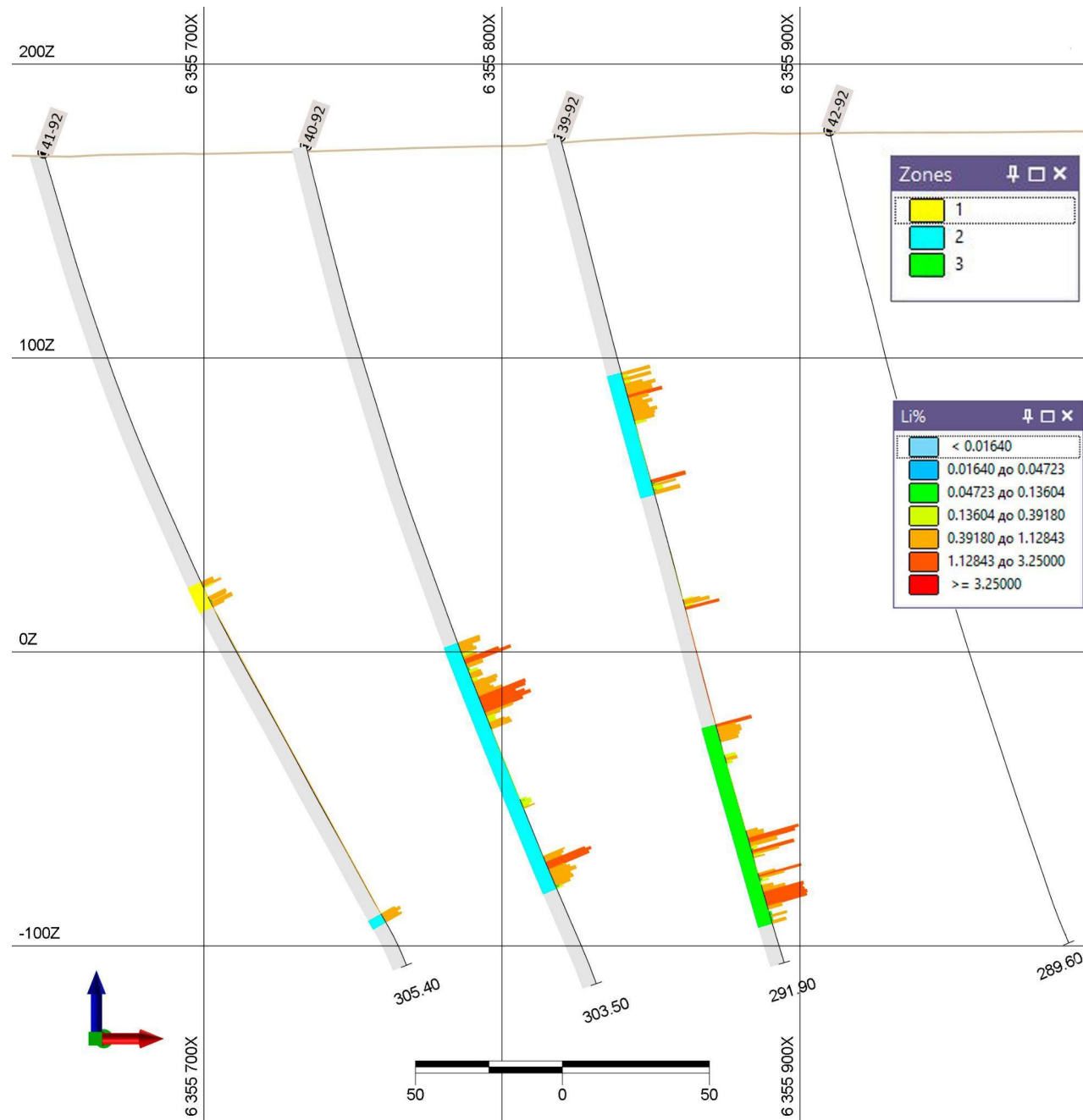
Models of the mineralization zones

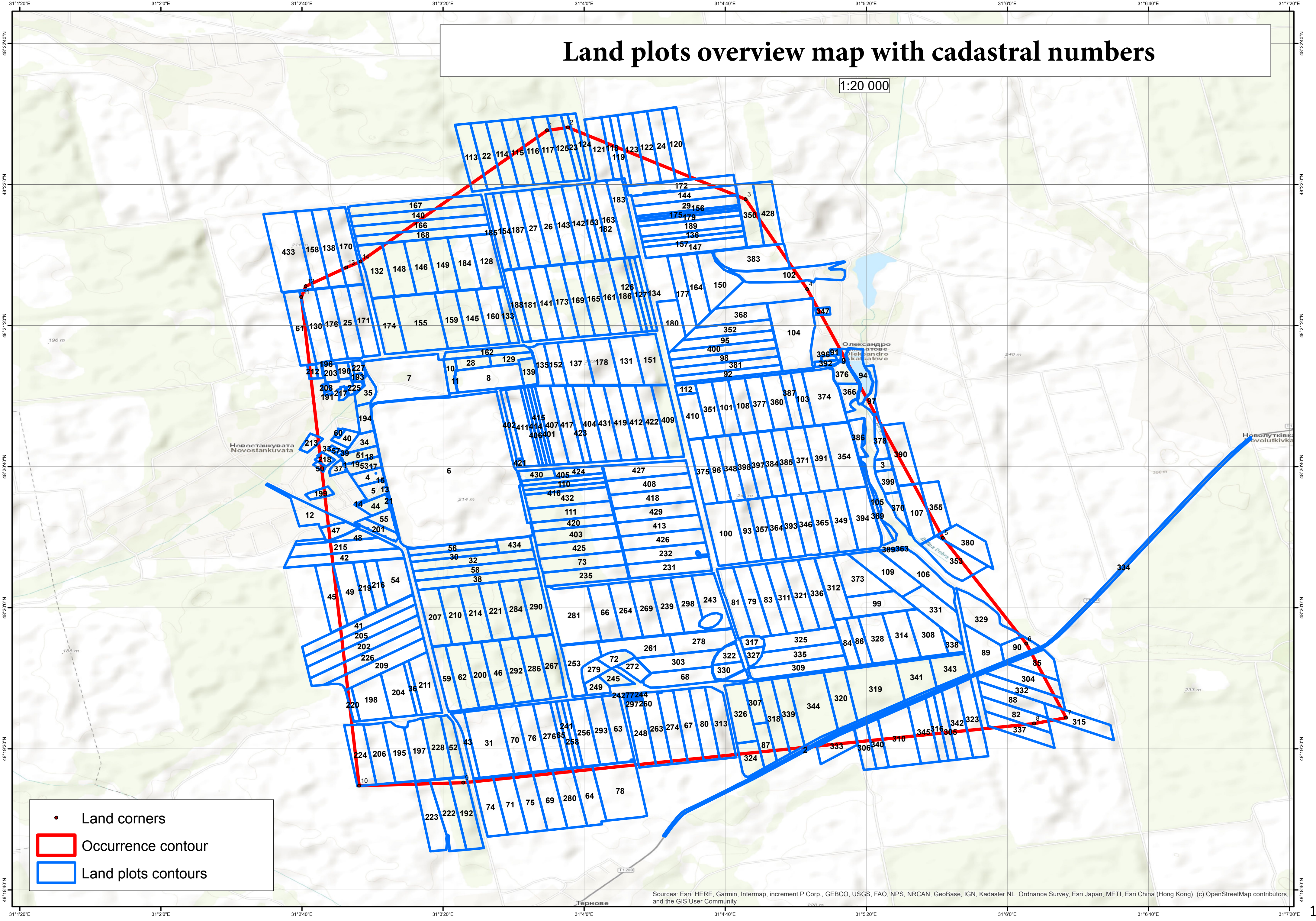


3D geological cross-sections



18+60 geological cross-section, sampling data





Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

List of cadastral numbers of land plots

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■ state property
 ■ municipal property
 ■ not specified
 ■ private property

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