



Ukraine Invest

Mayska Perspective Area of Gold Ore

Mineral: gold ore.

Type and period of subsoil use: 20-years licenses for exploration, pilot development and production.

Location: Podilsk District of Odessa Region, on the South-Eastern outskirts of Savran Village. The major highway of the area is Kyiv-Odessa (M05) located 15 km East of Savran. Zavallivsky Graphite Plant, located 14 km North-West from the site, has access to railway tracks from the Khashchuvate station of Odessa Railway. An asphalt road approaches the Northern part of the site directly.

Plot area: 253.05 hectares.

Geological information: Two major mineralized (ore) zones identified within the perspective area – Northern zone and Southern zone, which are embedded with the displacing stratum stretch, have North-Western aligning (290°-300°) and subvertical decline. Gold ore formation is confined to metasomatites of biotite-quartz-oligoclase (quartz-biotite-oligoclase, biotite-oligoclase-quartz) compound, which were formed mainly by rocks of the main compound (amphibolites and pyroxene-cummingtonite). Ore formations of the prospective area have indistinct textural and structural characteristics and inhomogeneous mineral composition. The ores of the perspective area belong to the gold-quartz bare-sulfide type. Ore mineralization is represented by oxide, sulfide and precious metal mineralizations. Oxide mineralization is the first stage of ore mineral formation and is represented by magnetite, chromium magnetite, ilmenite, scheelite, rutile, anatase (mineral association of chromium spinelid-chromagnetite-ilmenite). Sulfide mineralization is directly related to gold mineralization and is represented by pyrrhotite, pyrite (of three generations), pentlandite, marcasite, chalcopyrite (of two generations), sphalerite, galena, as well as arsenopyrite, loellingite, cobaltite. Precious metal mineralization is separated into two branches. The first branch is the actual golden branch, characterized by the predominance of high-fineness native gold and gold tellurides with a subordinate amount of bismuth and native bismuth tellurides. The second branch differs by the development of bismuth-silver-telluride mineralization with the major compound of native bismuth with the subordinate compound of native silver, electrum, hessite and galena. The size of gold grain is 0.001 - 2.0 mm, sometimes visible gold reaches 4 mm. The content of large gold (> 0.07 mm) is 50 - 60%, small (0.07-0.001 mm) - about 30%, fine - 10-20%. The morphology of gold grains is diverse: lumpy, lamellar, dendritic, streaked, hooked, film, xenomorphic, dusty formations. Native gold fineness is high - 983-992. The gold content in the samples taken from the core wells, ranges from the initial g/t content to 1570 g/t. The gold-silver ratio for areas with industrial parameters averages at 7:1. Mining and geological conditions of the prospective area determine the underground method of ore mining. The conducted hydrogeological works revealed that the main water inflow into the excavation site will occur during the development of the 10 m horizon and will constitute 162.8 m3/h. The prospective area is classified as simple in terms of drainage of the minefield category. No special drainage measures will be required. Drainage can be carried out by means of internal mine outflow. Groundwaters of the prospective area, which are going to be drained during mining operations, have salinity of 0.5-0.7 g/l with hardness of up to 4.2 mg-eq/l. Groundwaters can be discharged into the Southern Bug through the settling tanks for the deposition of mechanical suspensions as well as partially used for technical water supply of the mine complex.

Available geological information: The site was discovered in 1991 during predicting geological works on uranium of Sinitsivska grounds. In 1991-1993 greenfield exploration was performed within the prospective area. In 1994-2000 excavation-drilling exploration was performed but was not completed due to lack of funding. A total of 177 inclined assessment wells and exploration wells of total capacity of 64 510 m; and 40 hydrogeological wells with a total capacity of 7 726 m were drilled within the prospective area. The North-Western part of the prospective area contains a 204 m deep mine shaft of industrial cross section. At the moment the shaft has a wet conservation status. In metallogenic terms the prospective area is confined to the Savran ore field and is its major gold ore object.

Resources/reserves assessment. Promising gold reserves of the perspective area are estimated as: category P1 - 21.98 tons; category P2 - 18.75 tons; the weighted average gold content in sections is 3.4 g/t (Minutes of the Meeting of Scientific Council on Forecasting of the Ukrainian State Geological Survey #31 dated 12.12.2001). Given the close geographical proximity between Maiska prospective area of gold ore and Kvitka prospective area of gold ore which are located within the common Savran ore field, these prospective areas can be considered as a single investment project.

Geological information package.Available geological reports in the geological funds of KP "Kirovgeologiya".http://geoinf.kiev.ua/wp/geologichni-zviti.php?rep=fnd_shifr.rdf&schifr=58219http://geoinf.kiev.ua/wp/geologichni-zviti.php?rep=fnd_shifr.rdf&schifr=57153

Minimum work program: Provided by Mining terms Model agreements and defined in "Work Program" annex. Model agreements are listed at the link: https://www.geo.gov.ua/primirni-ugodi-pro-umovi-koristuvannya-nadrami/

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Mayska Perspective Area of Gold Ore



Mayska Perspective Area of Gold Ore List of cadastral numbers of land plots, within the contour of the deposit



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Information on land plots, in particular by cadastral number, can be obtained on the Public Cadastral Map of Ukraine: https://cutt.ly/Fx0CuBg

-	1	5124355100:02:002:0111	-	67	5124355100:01:003:0263
-	2	5124355100.02.002.0045	-	68	5124355100:01:003:0379
_	2	5124555100.02.002.0045	-	69	5124355100.01.003.0373
-	3	5124355100:02:003:0204	-	70	5124355100:01:003:0471
-	4	5124355100:02:003:0357	-	/0	5124355100:01:003:0431
-	5	E1242EE100.02.002.0407	-	71	5124355100:01:003:0275
	5	5124355100.02.003.0407	-	72	5124355100:01:003:0339
•	6	5124355100:02:003:0359	-	73	5124355100:01:003:0271
-	7	5124355100:02:003:0358		74	E1242EE100:01:002:0288
-	8	F1242FF100.02.002.0121	_	75	5124355100.01.003.0288
		5124555100:02:005:0121	-	/5	5124355100:01:003:0315
-	9	5124355100:02:003:0425	-	76	5124355100:01:003:0370
-	10	5124355100:01:003:0093	-	77	5124355100:01:003:0438
-	11	5124355100.01.003.0515	-	78	5124355100:01:003:0248
		5124555100.01.005.0515	-	79	5124255100:01:002:0001
-	12	5124355100:01:003:0397	_	,,,	5124355100.01.003.0001
-	13	5124355100:01:003:0398	-	80	5124355100:01:003:0002
-	14	E1242EE100:01:002:0400	-	81	5124355100:01:003:0318
	17	5124355100.01.003.0499	-	82	5124355100:01:003:0320
•	15	5124355100:01:003:0247	-	83	5124355100:01:003:0319
-	16	5124355100:01:003:0366	-	84	5124255100:01:002:0274
-	17	E1242EE100.01.002.0097	-	0.	5124355100.01.003.0374
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-	19	5124355100:01:003:0302	-	87	5124355100:01:003:0281
-	20	E1242EE100.01.002.0227	-	88	5124355100:01:003:0290
	20	5124555100:01:005:0257	-	89	5124255100:01:002:0271
-	21	5124355100:01:003:0235	_	00	5124355100.01.005.0371
-	22	5124355100:01:003:0236	-	90	5124355100:01:003:0375
-	23	E1242EE100:01:002:0242	-	91	5124355100:01:003:0502
-	25	5124555100.01.005.0242	-	92	5124355100:01:003:0138
-	24	5124355100:01:003:0145	-	93	5124355100:01:003:0139
-	25	5124355100:01:003:0144	-	94	5124255100:01:002:0140
-	26	E1242EE100.01.002.0201	-	05	5124355100.01.003.0140
	20	5124355100.01.003.0301	-	95	5124355100:01:003:0141
•	27	5124355100:01:003:0238	-	96	5124355100:01:003:0152
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-	20	5124355100.01.003.0321	-	99	5124355100:01:003:0166
-	30	5124355100:01:003:0404			512 1555100101100510100
-	31	5124355100:01:003:0239	-	100	5124355100:01:003:0172
-	32	5124355100.01.003.0241	-	101	5124355100:01:003:0153
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-	34	5124355100:01:003:0405		103	5124355100:01:003:0161
-	35	5124355100:01:003:0240	-	104	5124355100:01:003:0167
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_	27	5124355100:01:003:0450	-	106	5124355100:01:003:0419
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-	38	5124355100:01:003:0294	-	108	5124355100:01:003:0185
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-	40	5124355100.01.003.0461	-	110	5124355100.01.003.0187
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-	42	5124355100:01:003:0393	-	112	5124355100:01:003:0157
-	43	5124355100:01:003:0322	-	113	5124355100:01:003:0162
•	44	5124355100:01:003:0500	-	114	5124355100:01:003:0168
-	45	5124355100:01:003:0462	-	115	5124355100:01:003:0174
	46	5124255100:01:002:0462	-	116	5124355100:01:003:0420
_	47	5124555100:01:005:0405	-	117	5124355100:01:003:0158
-	47	5124355100:01:003:0475	-	118	5124355100.01.003.0163
-	48	5124355100:01:003:0378	-	110	5124355100:01:003:0169
-	49	5124355100:01:003:0372	_	120	5124355100.01.003.0109
-	50	5124355100:01:003:0330	-	120	5124355100:01:003:0175
-	51	5124255100:01:002:0277	-	121	5124355100:01:003:0421
-	51	5124355100.01.003.0377	-	122	5124355100:01:003:0164
-	52	5124355100:01:003:0474	-	123	5124355100:01:003:0170
-	53	5124355100:01:003:0352	-	124	5124355100:01:003:0176
•	54	5124355100:01:003:0503	-	125	5124355100:01:003:0422
•	55	5124355100:01:003:0326	-	126	5124355100:01:003:0423
•	56	5124355100:01:003:0337	-	127	5124355100.01.003.0165
	57	E1242EE100:01:002:0505	-	128	5124355100:01:003:0103
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-	58	5124355100:01:003:0408	_	129	5124355100:01:003:0177
•	59	5124355100:01:003:0312		130	5124355100:01:005:0008
•	60	5124355100:01:003:0266	-	131	5124355100:01:003:0215
•	61	5124355100:01:003:0348	-	132	5124355100:01:003:0214
•	62	5124355100.01.003.0269			
	62	5124355100.01.003.0289	_	Sta	te / municipal property
-	03	5124355100:01:003:0335		0.00	,
•	64	5124355100:01:003:0267		Pri	vate property
•	65	5124355100:01:003:0409	-		
•	66	5124355100:01:003:0262		No	t specified