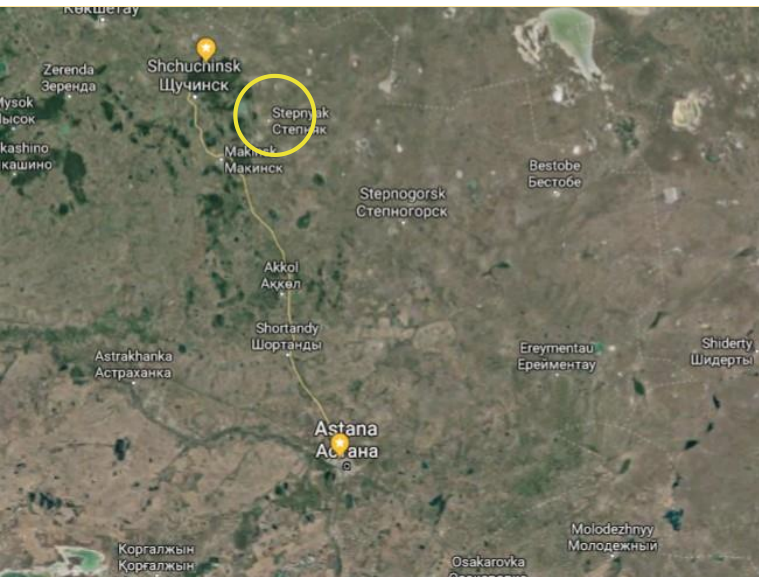


STEPNYAK ORE PROCESSING PLANT

PRODUCTION OF GOLD CONCENTRATE



PRIVATE COMPANIES, PUBLIC ORGANIZATIONS, INVESTORS, CONTRACTORS AND
ENTREPRENEURS PARTNER WITH US FOR ADVICE, CAPITAL, INSIGHTS AND SOLUTIONS.



- Productive capacity 170 000 tonnes of TMF per year
- 1000 tonnes of concentrate per year with grades between 50 and 80 gr/T

Location

Technogenic deposit of SOPP (Stepnyak Ore Processing Plant) gold-bearing tails is located in Enbekshilder district of Akmola Region, 30 km to the North-East of Makinsk town. Nearest populated area is Stepnyak town.

Ore processing facility includes:

1. Ore processing Plant
2. Tailings pond with clarifying water
3. Machinery repair shop
4. Storage
5. ETL, Transforming substation
6. 2 Storey building (administrative building)
7. Dormitory for 26 persons
8. Canteen for 12 persons

*asphalted vehicular access to the Factory



Raw material base

Technogenic deposit is formed by tails of gold-bearing quartz of Stepnyak field, that were stored on local terrain during 1936-1956 mining period. Imperfection of old technologies formed TMF with such level of gold grading that it is cost effective for extraction with modern equipment.

Tailings are made up of cohesionless mass composed of fine sand (2,5%), aleurite (52%) and clay (45,5%).

State Commission on mineral reserves of Kazakhstan on December 29 in 2008 approved reserves of gold-bearing tailins of the SOPP.

Limited Liability Partnership
“Marhit” owns
contract №1210 for gold
extraction at technogenic deposit
of the Stepnyak Ore Processing
Plant of Akmola Region (SOPP)

Indices	Unit of measurement	Off-balance reserves
Ore	t. Ton	1 393,1
Gold	kg	822,0
Average grade	0,59 gr./t	1,20 gr./t

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 测试日期: June 2018

Total pages: 1
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Test report

№ lab	Customer's Sample №	Sc %	P %	Sb %	Mn %	Pb %	Ti %	Zr %	As %	Ga %	W %	Cr %	Ni %	Ge %	Bi %	Ba %
1	1	0,0015	0,15	0,015	0,08	0,04	0,40	0,008	0,15	0,00015	0,005	0,012	0,006	0,00015	0,0006	0,04

№ lab	Customer's Sample №	Be %	Nb %	Mo %	Sn %	V %	Li %	Cd %	Cu %	Yb %	Y %	Zn %	Ag gr/t	Co %	Sr %	Au gr/t
1	1	0,00015	0,0006	0,004	0,0006	0,015	0,001	0,0005	0,02	0,00025	0,002	0,03	6	0,003	0,02	45

1 ppm = 1mg/kg= 1gr/t = 0,0001%

Elements B, Hf, Hg, In, Pt, Ta, Te, Th, Tl, U were not detected

This protocol applies only to sample used for tests.

Head of the Laboratory
 for physical methods of analyses

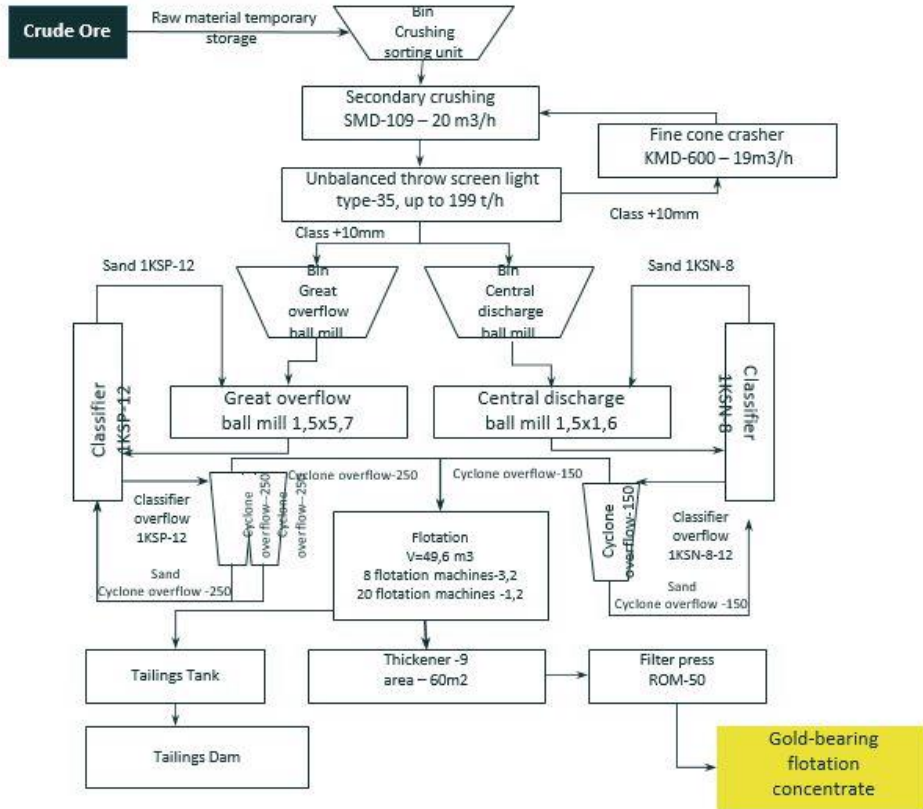
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N.A. Sidoikina

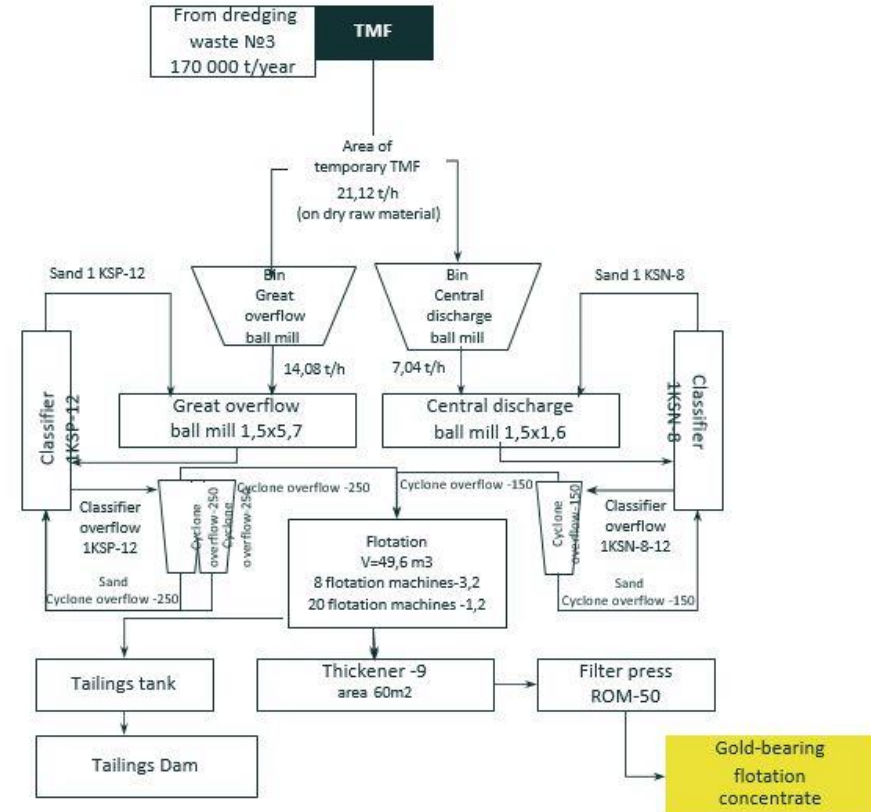
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Technical diagram of crude ore processing



Technical diagram of tails processing

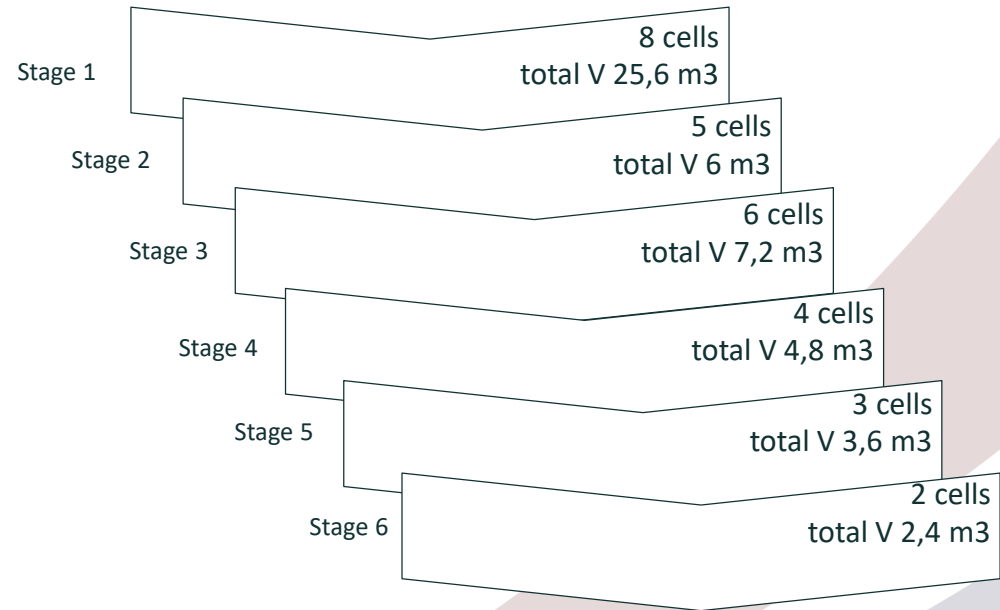


FLOATATION UNIT



Froth product of the rougher flotation enters the first re cleaning flotation and flotation tail enters into three sequentially connected control stages. The froth product of the second and third control stages goes to the first control stage. Froth product of the first control stage is sent to the rougher flotation, and the combined tails (flotation tail) of the third control flotation are dropped onto the tailings dam.

The re-cleaning flotation cells are combined into a countercurrent cascade, where the froth product of the first re-cleaning is sent into the second re- cleaning cell, and the froth of the second re-cleaning goes to the concentration tank. The flotation tail of the second re-cleaning is returned to the last cell of the first re-cleaning, and the flotation tail of the first re-cleaning enters the head section of the rougher flotation. Concentrate that has passed re-cleaning stage is sent from the concentration tank to the thickening process (the Thickener -9).



Underflow of the thickener is fed by the membrane pump to the filter press ROM 50 for dewatering. Then the final product - gold-bearing flotation Concentrate is conveyed to the "big bag" container. Ready-made "big-bag" after weighting, sampling and sealing is sent to the warehouse.

STREAMLINED OPERATIONAL PROCESS AT THE PLANT



1. The Plant was launched in May 2018 after modernization of equipment and reconstruction of building.
2. New engines and pumps were installed in grinding and floatation sections.
3. Staff is recruited.
4. Permanent residence of workers in the territory of Plant and Stepnyak town has been arranged.
5. Catering in the territory of the Plant is provided.
6. Transportation for workers is provided
7. Supply logistics of chemicals and consumables for smooth non-stop operation is ensured

Mining and processing of TMFs at Stepnyak OPP tailing dams for gold and silver extraction is a promising project. Comparing to full and capital-intensive cycle of Ore extraction it shows low capital costs which is a key factor for high profitability of this plant.

Exploration

Geological exploration work of contracted area was conducted in July 2018.



Calculation of reserves based on research findings of collected samples done by “Centergeolanalit” LLP will be finalized in September 2018



Deposits with out Ore Processing Plant located nearby





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