



MAX GROUP

Gold & Coal projects

Brief project profiles

Mining & Heavy Industry Division | MAX Group

MAX GROUP

简介 | Introduction

MAX集团是在蒙古国领先集团公司之一，营业多个领域行业，包括但不限于房地产和修路建设、基础设施开发、农业、乳制品制造厂、采矿、零售和批发贸易、服务行业以及连锁酒店业务。

1992

成立于1992年，
自从家贸易公司
开始

Founded in 1992 as
a trading company

20

集团旗下公司
subsidiaries &
related companies

3,000

全体总员工
overall employees

MAX Group is one of the leading group companies in Mongolia which operates in various business sectors that includes but not limited to the property and road construction, infrastructure development, agriculture, dairy product manufacturing, mining, retail & wholesale trading, food & beverage and hotel businesses.



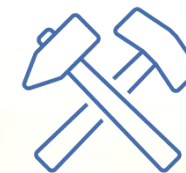
零售业
RETAIL
INDUSTRY



乳制品行业
DAIRY INDUSTRY



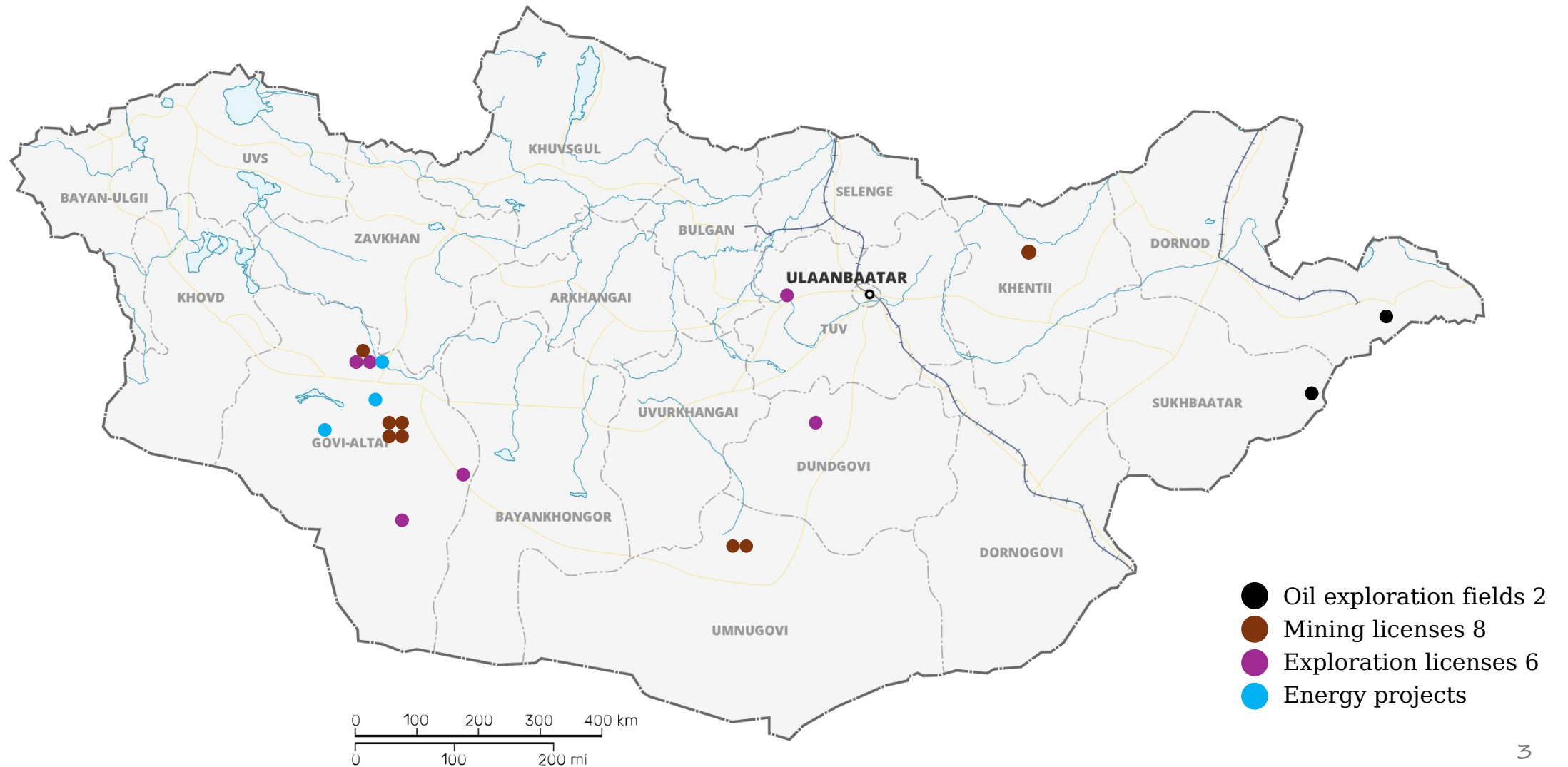
基础设施与建筑业
INFRASTRUCTURE &
CONSTRUCTION
INDUSTRY



采矿行业和重工业
MINING &
HEAVY INDUSTRY

MAX GROUP

地质学 | Mining projects





SELENGE

ZAVKHAN

BULGAN

ULAANBAATAR

ARKHANGAI

TUV

煤矿项目
Coal project

金矿项目
Gold project

UVURKHANGAI

DUNDGOVI

GOVI-ALTAI

BAYANKHONGOR

1

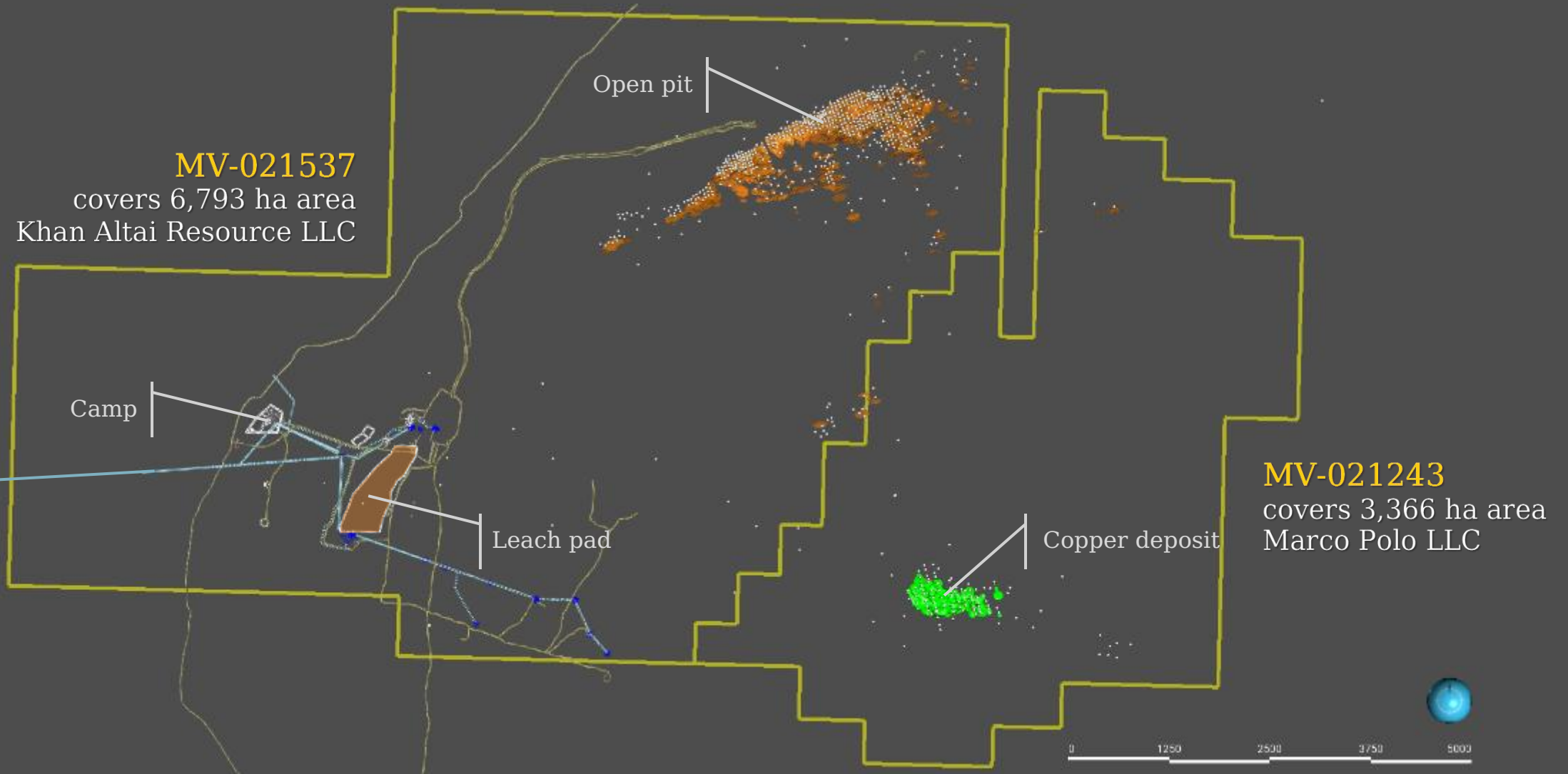
KHAN ALTAI GOLD PROJECT

汗阿尔泰金矿项目



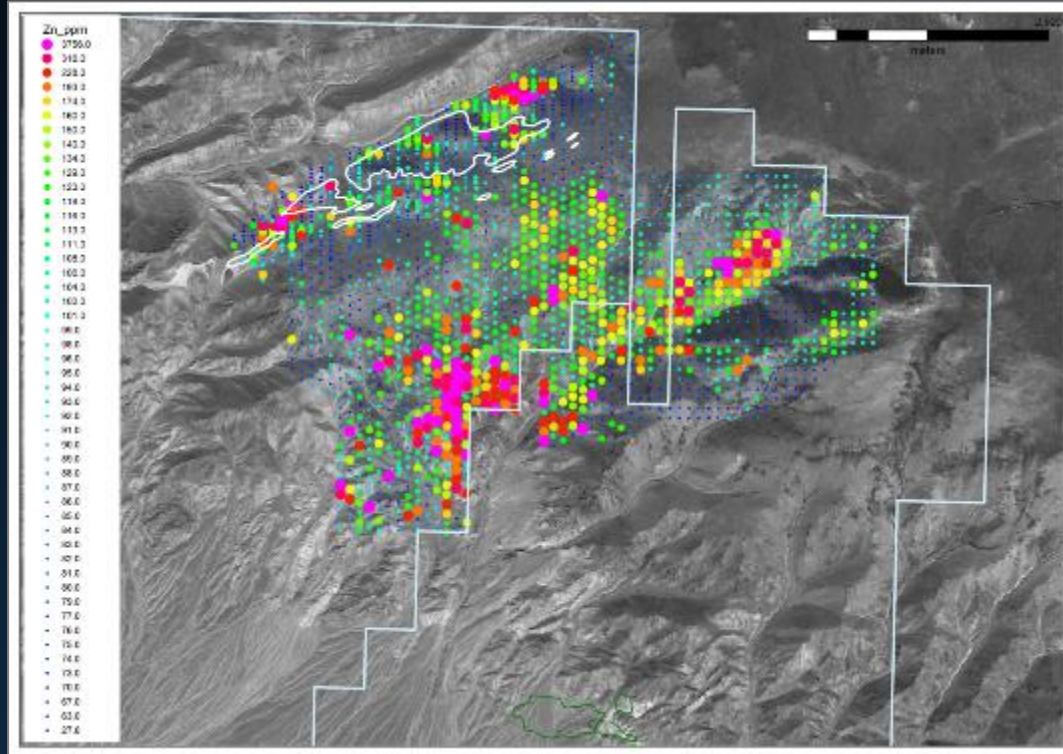
KHAN ALTAI GOLD PROJECT

许可证和勘探情况 | License & exploration



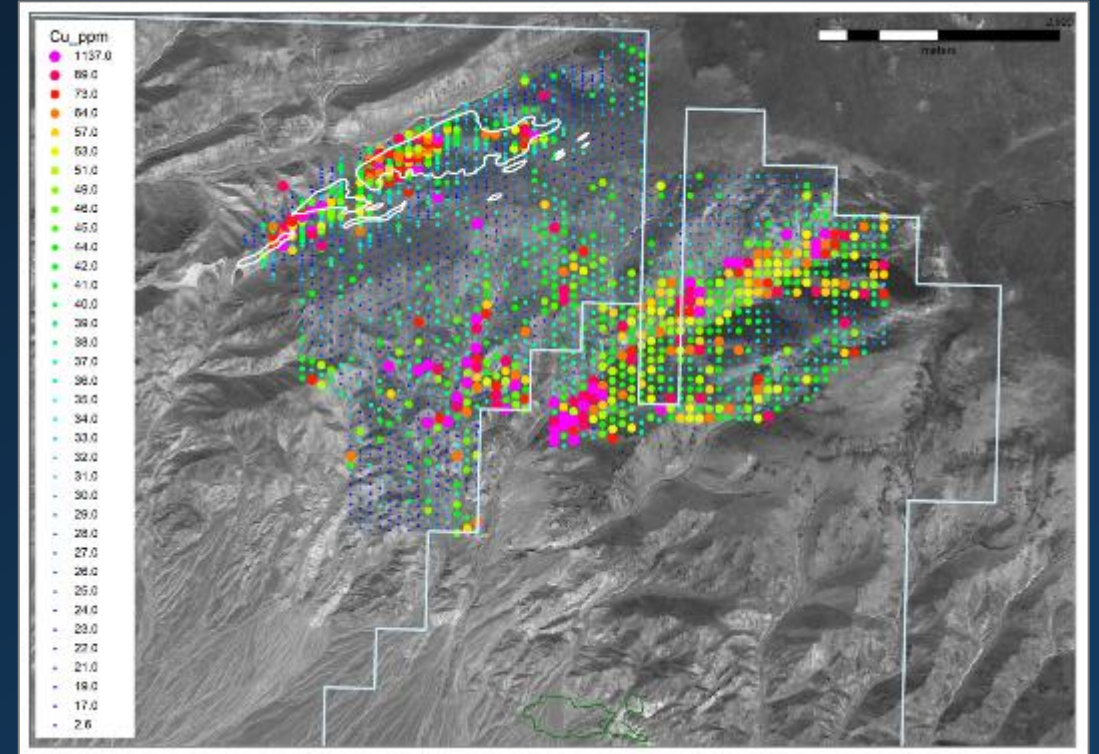
KHAN ALTAI GOLD PROJECT

地质学 | Geology



锌 | Zinc

多金属矿化地带
按地址试验样式铜锌矿化



铜 | Copper

Polymetallic mineralization zone
Copper and zinc mineralization based
on the geochemical sampling

KHAN ALTAI GOLD PROJECT

资源量与储量 | Resource & reserve



矿石 Ore	类别 Category	边界品位 Cutt-off grade	容量 Volume	吨位 Tonnage	平均品位 Average grade	黄金含量 Contained Au	
		ppm	Mm ³	Mt	ppm	Moz	t
氧化矿 Oxide	探明资源量 Measured		2.4	6.3	0.96	0.2	6.1
	控制资源量 Indicated	0.3	6.0	16.0	0.66	0.3	10.6
	推断资源量 Inferred		3.8	10.3	0.48	0.2	4.9
	小计 Subtotal		12.2	32.5		0.7	21.6
原矿 Primary	探明资源量 Measured		11.7	21.8	1.12	1.1	35.7
	控制资源量 Indicated	0.4	16.5	45.2	0.80	1.2	36.1
	推断资源量 Inferred		4.2	11.3	0.67	0.2	7.6
	小计 Subtotal		32.4	88.4		2.6	79.5
共计 TOTAL			44.6	120.9		3.2	101.1

120.9 Mt

原矿石储量 (蒙古国最大)
Ore reserve
(the biggest in Mongolia)

3.2 Moz

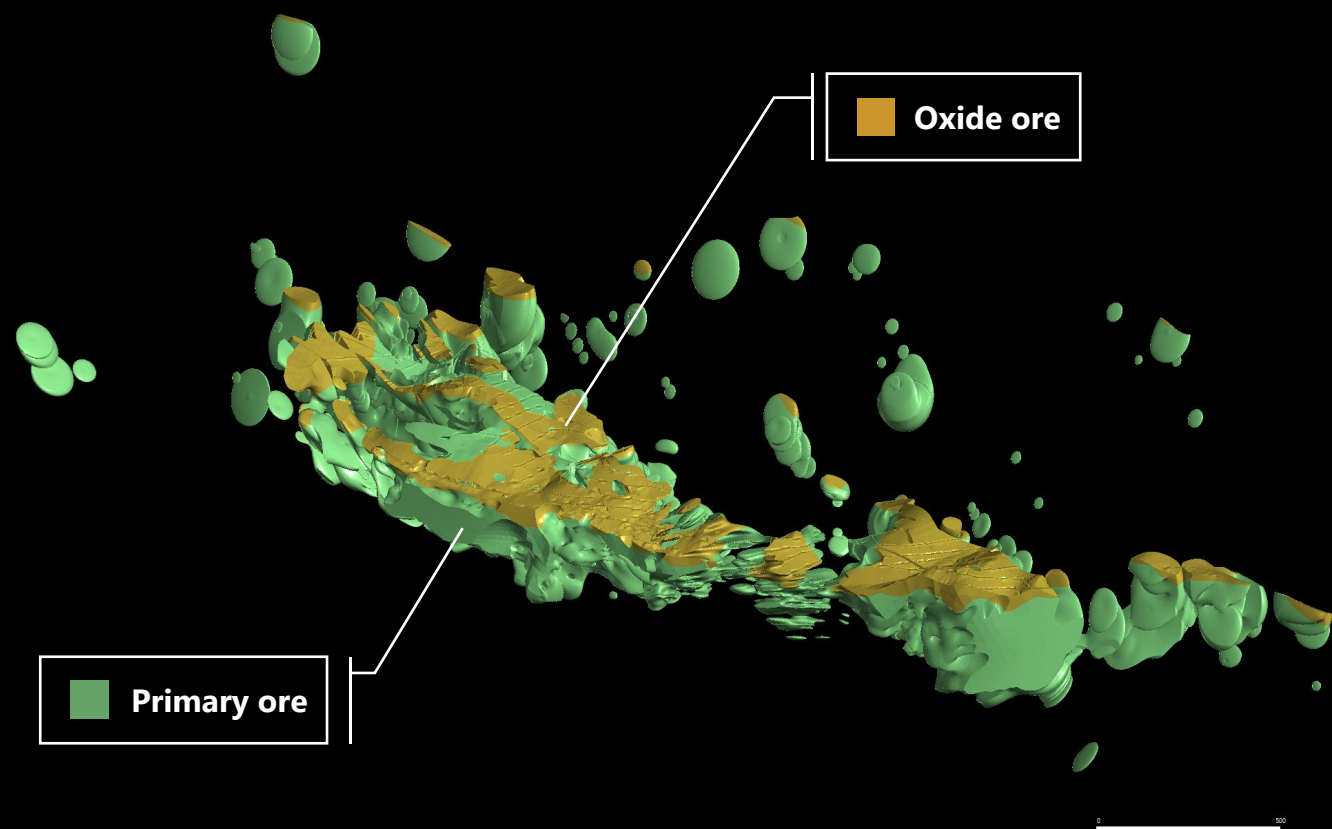
黄金储量数量 (101.1 t)
Au reserve

0.83 g/t

黄金平均品位
Average Au grade

KHAN ALTAI GOLD PROJECT

资源量与储量 | Resource & reserve



边界品位 Cut-off grade (g/t Au)	体积 Volume (Mm³)	密度 Density (g/cm³)	吨位 Tonnage (Mt)	平均品位 Average grade (g/t Au)	含有黄金 Contained gold	
					(Moz)	(t)
0	191.00	2.71	517.80	0.40	6.59	205.00
0.1	188.30	2.71	510.40	0.40	6.57	204.40
0.2	130.40	2.71	354.00	0.51	5.79	180.20
0.3	83.70	2.72	227.30	0.66	4.79	149.10
0.4	56.40	2.72	253.50	0.81	3.97	123.60
0.5	40.00	2.72	108.80	0.95	3.33	103.60
0.6	29.40	2.72	80.00	1.10	2.83	87.90
0.7	21.90	2.72	59.40	1.25	2.40	74.60
0.8	16.70	2.71	45.30	1.41	2.06	64.00
0.9	13.20	2.71	35.70	1.57	1.80	55.90
1	10.50	2.71	28.60	1.72	1.58	49.10
2	2.10	2.69	5.70	3.25	0.59	18.50
3	0.60	2.70	1.70	5.35	0.29	9.00

KHAN ALTAI GOLD PROJECT

基础设施 | Infrastructure



通过35kV电线连接到国家电网。
Connected to state grid with 35 kV power line.



在现场连接到支持LTE的网络。
Connected to the cellular network with LTE support at the project site.



已投产炸药和化学品库房车间和维修车间。
Commissioned explosives and chemicals storage facilities and maintenance shop.



1000吨燃料储存站，可储存一期运行2周的燃料消耗。
1000 t fuel storage station which store up to 2 weeks fuel consumption of Phase I operation.



452个建筑设施，包括SOS、办公室、健身房、餐厅和员工住宿等。
452-man camp facilities that include SOS, office, gym, restaurant and living accommodations.



设置发电量为3.7MW的柴油发电机，可满足ADR加工厂的用电需求。
Set up diesel generators with 3.7 MW generation capacity which can supply the electricity consumption of ADR processing plant.

KHAN ALTAI GOLD PROJECT

目前运营情况| Ongoing operation

3-4 Mtpa

采矿和加工能力
Mining & processing capacity

77,161 oz

截至2024年8月的黄金产量
Gold doré production as of
August 2024 (2.4t)

25,000 m

目前为止进行的勘探钻孔
Exploration drill program ongoing
for this year

5 years

一期计划生命周期5年
Further operation planned
for Phase I operation



KHAN ALTAI GOLD PROJECT

发展计划 | Development plan



二期运营 | Phase II operation

采用浮选+氧化+浸出技术处理

6 Mtpa原矿

6 Mtpa primary ore processing with flotation + oxidation + leaching technology

~10%

浮选产量
Flotation yield

85.8%

浮选回收
Flotation recovery

98%

氧化速率
Oxidation rate

97.23%

浸除回收率
Leaching recovery rate

145,000 oz

年平均预算产量
Average annual projected production

开采的原生矿石应研磨至75μm进行浮选。浮选精矿应进行氧化处理，然后进行浸出处理，以生产金。

The mined primary ore shall be ground to 75μm for the flotation process. The flotation concentrate shall be processed in oxidation followed by leaching process to produce gold.

根据最新估计的资源量，该项目的矿山寿命估计超过15年。

Based on the up-to-date estimated resource, the life-of-mine for the project is estimated more than 15 years.

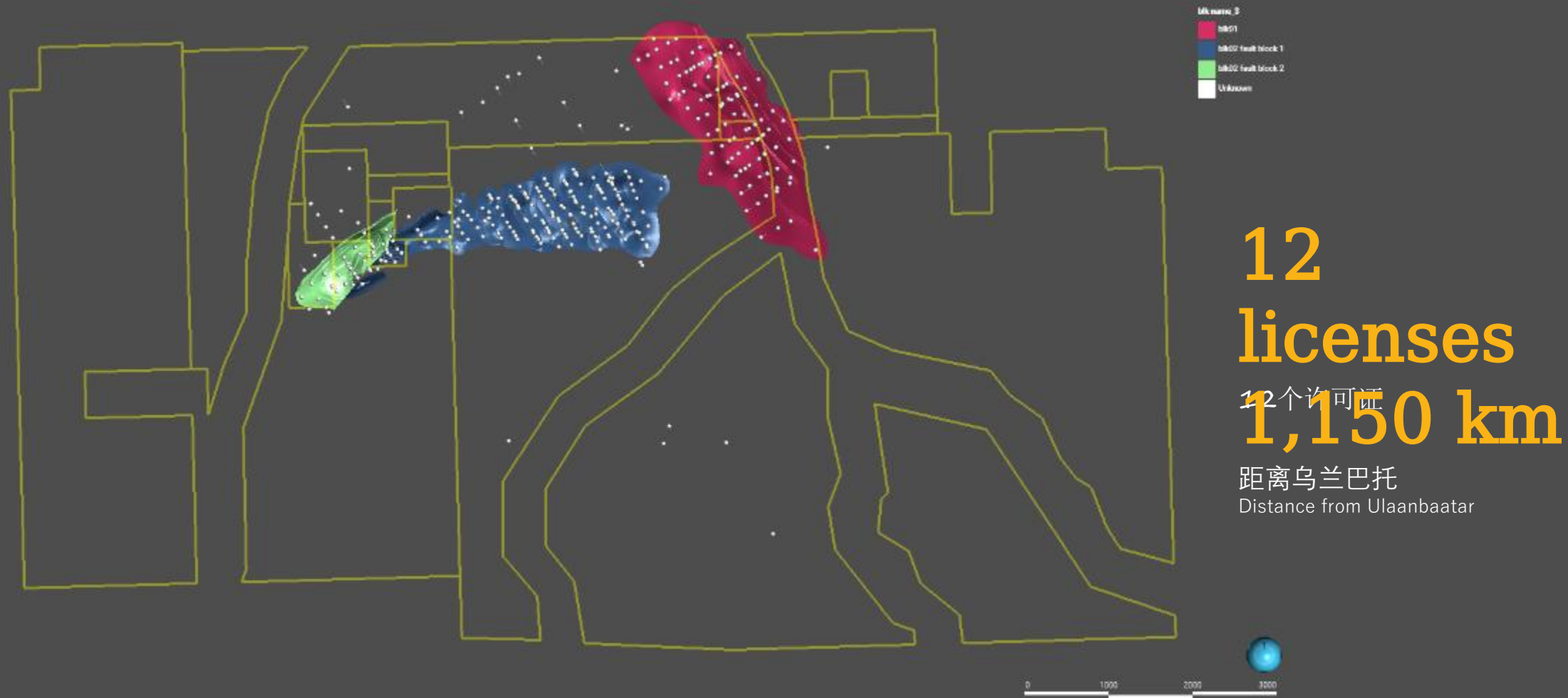
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KHURENGOL COAL PROJECT

煤矿项目

KHURENGOL COAL PROJECT

许可证 | Licenses



KHURENGOL COAL PROJECT

许可证 | Licenses

采矿许可证编号 License No.	吨位 Tonnage	CSN	V ^{daf}	V ^{adb}	Ash ^{adb} %	IM ^{adb} %	S ^{adb} %	Cal ^{adb} kcal/kg	Cal ^{daf} kcal/kg	TM %
MV-001715	8.79	2.20	28.54	14.68	47.46	0.78	0.44	4,281.5	8,205.1	3.20
MV-005043	8.92	2.12	31.62	18.21	40.05	1.79	0.58	4,724.4	8,064.2	4.49
MV-005097	18.34	2.00	28.74	16.42	41.53	0.83	0.48	4,795.7	8,268.1	2.81
MV-015403	2.76	0.56	31.18	18.67	38.43	0.87	0.71	5,079.9	8,300.3	3.90
MV-017540	11.10	1.72	21.22	10.58	48.53	0.52	0.34	4,207.3	8,153.1	1.78
MV-020608	154.73	1.82	22.09	11.02	47.99	0.65	0.39	4,261.5	8,167.6	2.58
MV-020609	1.66	2.69	18.80	10.18	44.03	0.91	0.44	4,579.5	8,226.1	4.17
MV-020610	79.11	1.87	21.02	10.51	48.14	0.64	0.39	4,236.7	8,155.5	1.92
MV-020612	34.53	2.09	28.74	15.73	44.23	0.70	0.48	4,585.6	8,266.2	2.39
MV-020613	14.20	1.88	20.89	9.88	50.45	0.63	0.37	4,058.3	8,095.4	2.70

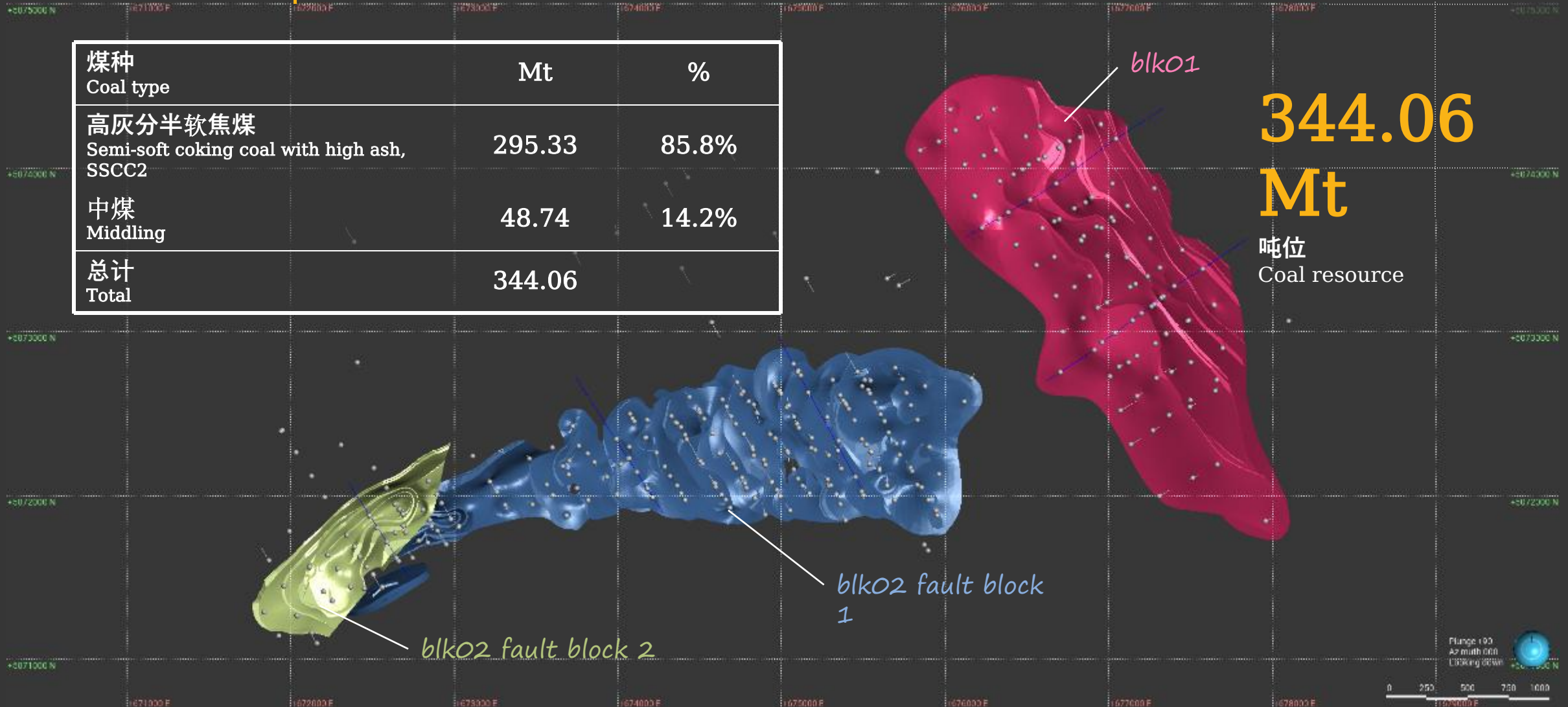
KHURENGOL COAL PROJECT

煤炭资源 | Resource

煤种 Coal type	Mt	%
高灰分半软焦煤 Semi-soft coking coal with high ash, SSCC2	295.33	85.8%
中煤 Middling	48.74	14.2%
总计 Total	344.06	

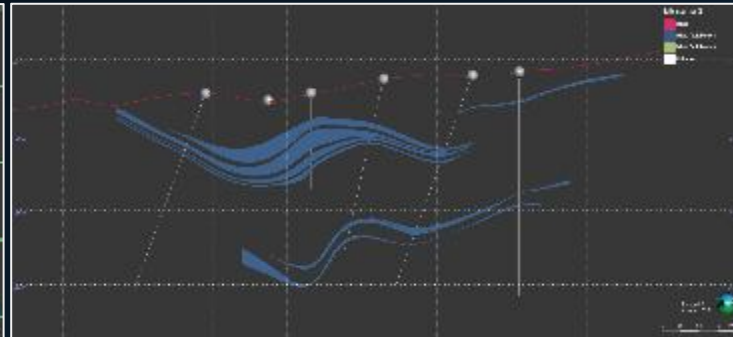
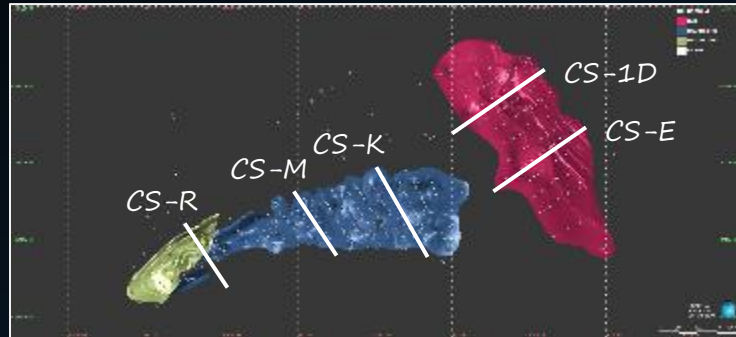
344.06
Mt

吨位
Coal resource

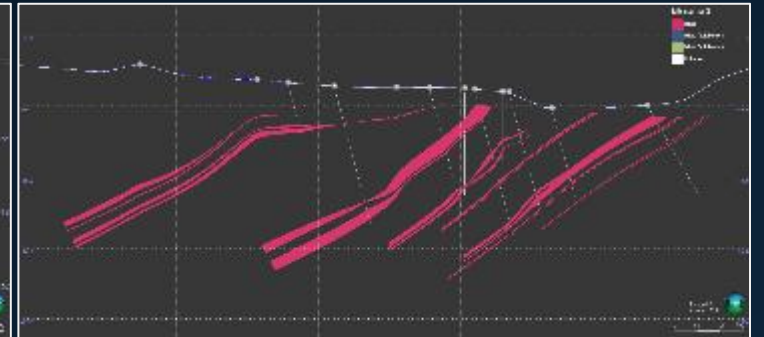


KHURENGOL COAL PROJECT

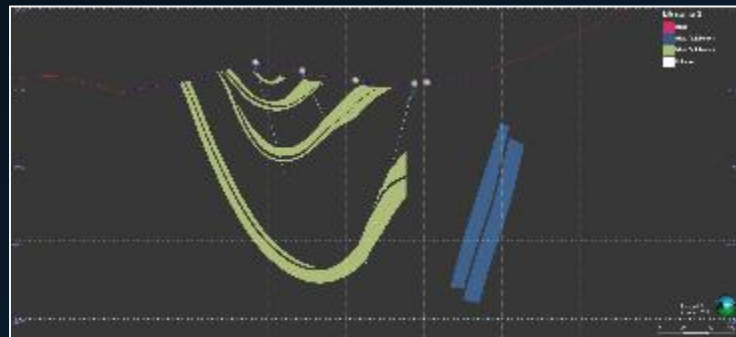
横截面 | Cross sections



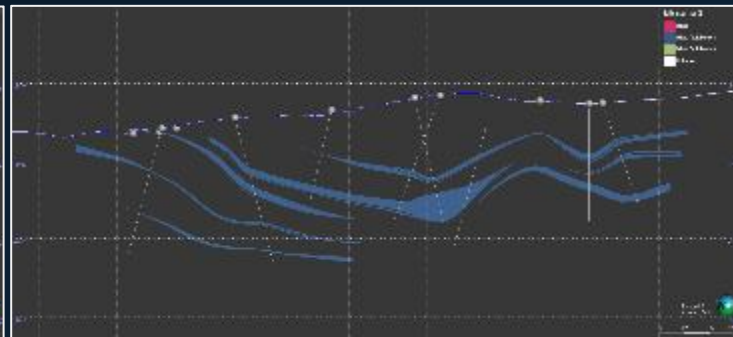
CS-M



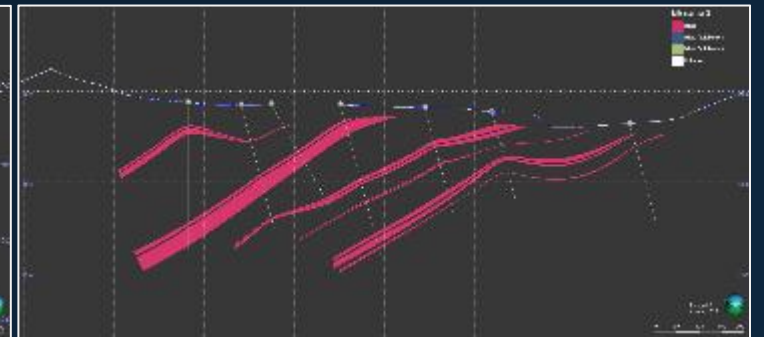
CS-E



CS-R



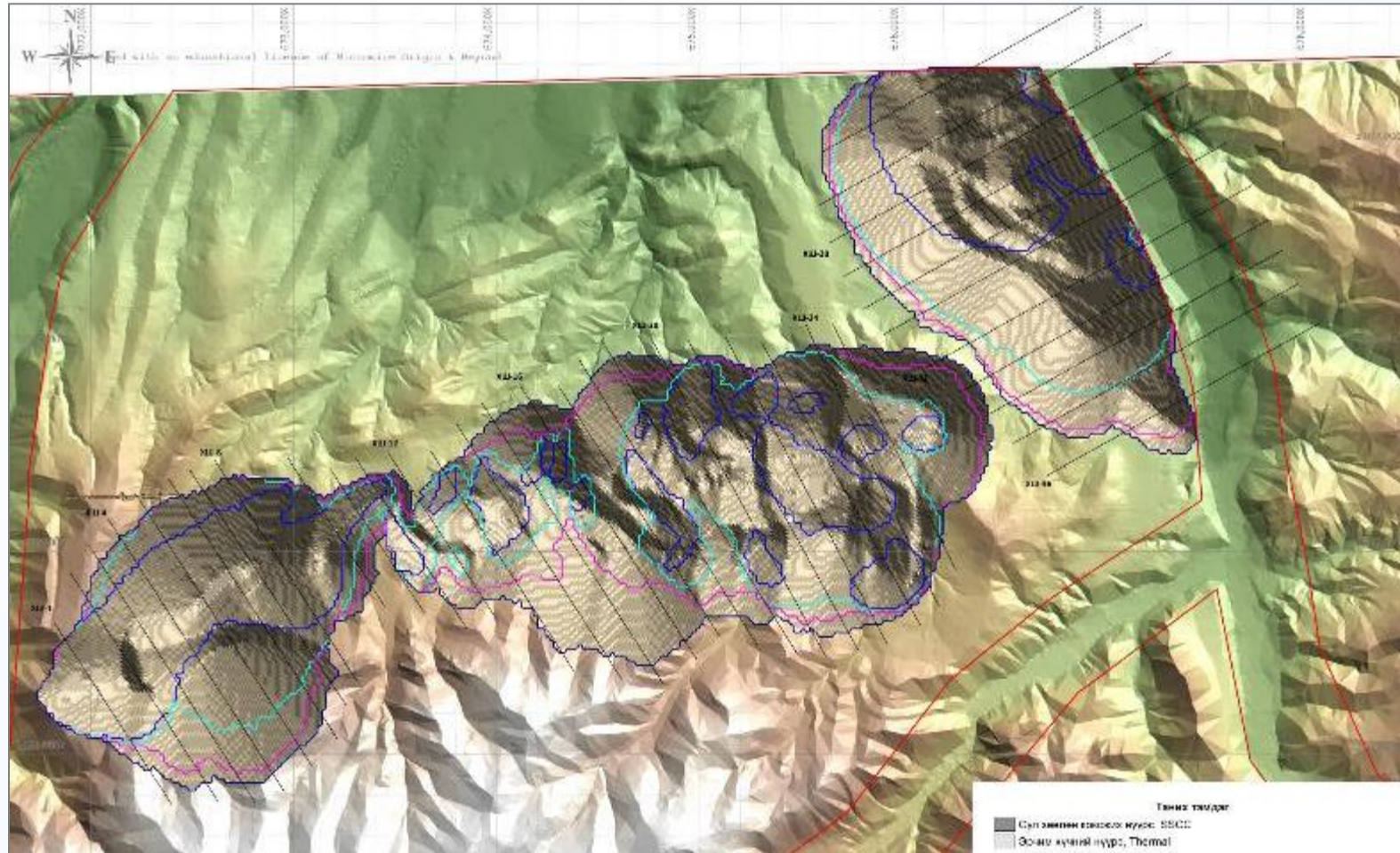
CS-K



CS-1D

KHURENGOL COAL PROJECT

采矿 | Mining



- 100%成本系数下的矿坑限制
Pit limit at 100% cost factor
- 150%成本系数下的矿坑限制
Pit limit at 150% cost factor
- 200%成本系数下的矿坑限制
Pit limit at 200% cost factor
- 250%成本系数下的矿坑限制
Pit limit at 250% cost factor
- 许可证边界
License border

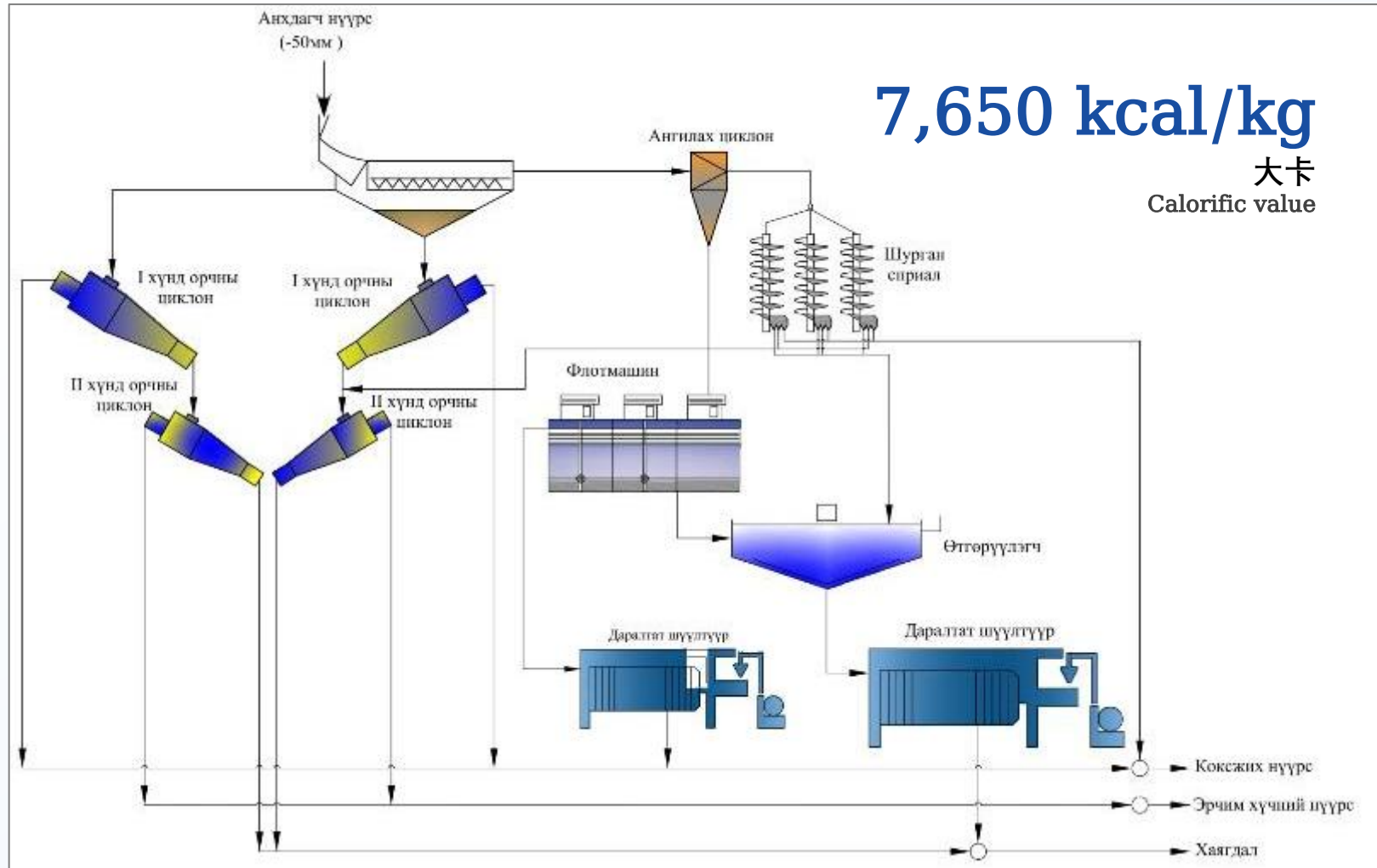
KHURENGOL COAL PROJECT

煤炭加工 | Processing

试验 Test-work	原灰分 Head Ash, %	出料 Yield, %	加工后灰分 Ash, %	大卡 Calorific value, kcal/kg
干式法 Dry separation				
FGX China	54.4	53.5	41.2	3,866
KIGAM Korea	55.4	41.8	26.8	5,578
湿法 Washing				
FGX China	41.8	9.3	11.2	6,511
KIGAM Korea	26.8	26.4	8.9	7,494
MUST Mongolia	54.6	11.27	12.41	7,650

KHURENGOL COAL PROJECT

煤炭加工 | Processing



IM_{ad} 0.79%

内部湿度
Internal moisture

V_{daf} 17.1%

挥发性物质
Volatile matter

S_{ad} 0.3%

硫黄
Sulfur

G > 60

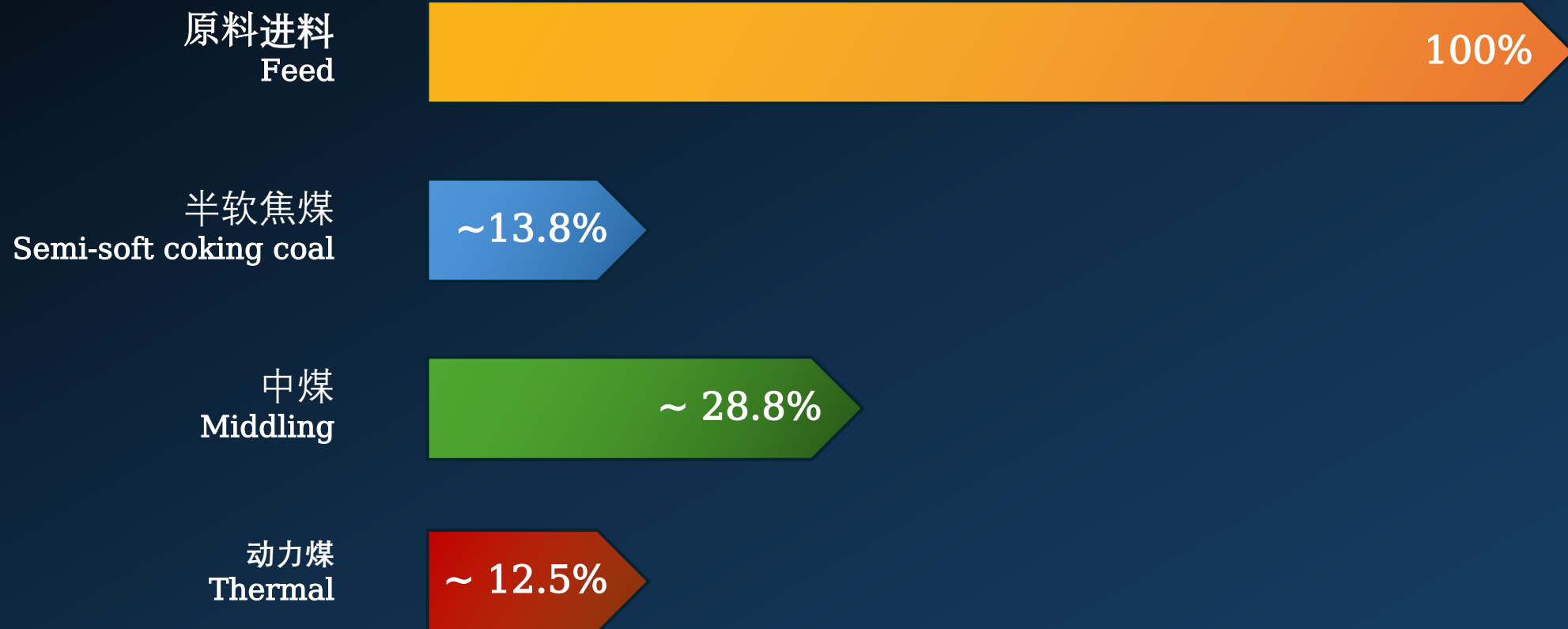
煤结块指数
Caking index

Ash 10-18%

平均灰分
Average ash

KHURENGOL COAL PROJECT

产品估算 | Product estimates



Bulgan - Takashiken
Port (400 km)

244 km

155 km

Khurengol
deposit

93 km

69 km

Tayannuur

蒙古国
Mongolia

KHURENGOL COAL
PROJECT

道路通道 | Road access

中华人民共和国
People's Republic of China

Burgastai - Laoemyao
Port (~200 km)

100 km

— 现有道路
Existing road

— 规划道路
Planned road

KHURENGOL COAL PROJECT

发展计划 | Development plan



Coal processing plant

年生产量200万-300万吨洗煤厂

Coal washing plant with
2-3Mtpa production capacity

该项目一期开发的目的是生产200万-300万吨/年的焦煤。

The Phase I development of the project targets to produce coking coal with the production capacity of 2-3Mtpa.

Infrastructure development

200MW煤电发电站,道路建设

200MW thermal power plant, road construction

二期开发计划建设200MW火力发电厂。

As for the Phase II development, 200 MW thermal power plant is planned.



感谢您的关注!
Thank you for your attention!

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