



Low-cost vanadium producer developing the giant Balasausqandiq vanadium deposit in southern Kazakhstan

Overview

- Principal asset is subsoil-use contract for the Balasausqandiq deposit located in the Shieliiskiy Region of Kyzlorda Oblast in southern Kazakhstan; an advanced black shale vanadium development project.
- PFS shows post-tax NPV10 of US\$2bn using a flat US\$7.50/lb V₂O₅ price with upfront stage 1 capex of US\$100m and stage 2 capex of US\$225m internally funded, for respective production of 5.6ktpa and 22.4ktpa V₂O₅
- Unit costs before by-products of US\$2.26/lb, US\$1.54/lb on a co-product basis and negative US\$-1.20/lb on a by-product basis gives the project an industry leading cost base; around 56% lower than current low cost peers.
- Ore body is not titano-vanidiferous-magnetite (TVM) in nature which enables a simpler metallurgical process which does not include high temperature roasting or preconcentration. This reduces capex and opex by around 60% against TVM peers which account for 80% of current supply. Overall recoveries over 90% versus around 75% for TVM
- Surface outcropping and large shallow orebody allow low cost mining with a low strip ratio.
- Annual revenue of US\$135mpa combined with strong margins result in free cash flow generation of US\$103mpa during phase 1; this rises to US\$541mpa and US\$430mpa in phase 2, 2, 2 years of phase 1 cashflow is sufficient to fund phase 2 internally.

Existing Production

- The company currently operates a processing plant which treats brought-in concentrates
- Near-term expansion of the existing operation, which produced c150t V_2O_5 in 2019, up to 1.5ktpa.
- Aiming to provide cashflow during construction phase.

Pro Mining Jurisdiction

- Kazakhstan is located on the Silk Road Economic Belt with corridor of roads, rail, energy, telecoms and infrastructure linking China to Europe.
- Significant site infrastructure already in place with easy access to roads, rail, power and water.
- Stable jurisdiction with a mining-friendly government.
- FAR has signed an Investment Incentive Agreement with Kazakh Government stipulating 0% tax until 2026 and full property tax exemption until 2024.

Reserves and Resources*

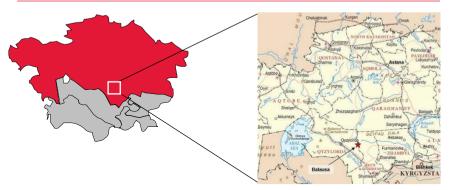
	Tonnes (Mt)	V2O5%	МоО3%	U3O8%	
Balausgandig – Ore Body 1					
Indicated	21	0.67%	0.03%	0.01%	
Inferred	2	0.67%	0.03%	0.01%	
Combined	23.0	0.67%	0.03%	0.01%	



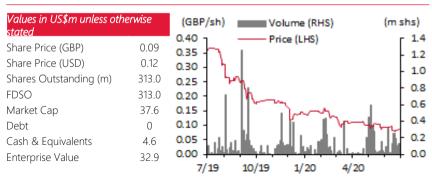


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Sites



Financial Performance



Key Shareholders & Management

Firm	Stake	Individual	Position
Andrey Kuznetsov	22.4%	Nicholas Bridgen	CEO
Nicholas Bridgen	20.7%	Andrey Kuznetsov	Operations Director
Citadel Equity Fund	13.4%	Chris Thomas	Non-Executive Director
		James Turian	Non-Executive Director



低成本钒生产商在哈萨克斯坦南部开发大型Balasausgandig钒矿床

摘要

- 主要资产是位于哈萨克斯坦南部克孜勒达州的谢利埃斯基地区的Balasausqandiq矿床的地下使用合同: 先进的黑色而岩积开发项目
- PFS显示,税后NPV10为\$20亿美元,使用固定的\$7.50美元/磅V₂O₅(无氧化二钒)价格,第一阶段的资本支出为1亿美元,第二阶段的资本支出为\$2.25亿美元,由内部供资,分别生产5.6ktpa和22.4ktpa V₂O₅。
- 副产品前的单位成本为2.26美元/磅, 副产品为1.54美元/磅, 副产品为负1.20美元/磅, 使该项目具有行业领先的成本基础; 比目前的"低成本"同行低约56%。
- 矿体本质上不是钛-钒铁磁铁矿(TVM),它使冶金过程变得更简单,且不包括高温熔烧或预浓缩。与TVM同行相比,这降低了约60%的资本支出和运营支出,后者占当前"供应"的80%。总体回收率超过90%。而TVM约为75%。
- 地表露头和大型浅矿体使低剥落率的低成本开采成为可能。
- 年收入为\$135mpa美元,加上强劲的利润,可在第一阶段产生\$103mpa美元的自由现金流;在第2阶段,这分别上升到541mpa和430mpa。第1阶段2.2年的现金流足以为第2阶段内部供资。

现有生产

- 公司目前经营一家加工厂、处理进口浓缩物。
- 现有运营的近期内扩展,2019年生产了c150t V₂O₅,最高可达1.5ktpa。
- 旨在施工阶段提供现金流。

最佳采矿管辖权

- 哈萨克斯坦位于丝绸之路经济带,公路,铁路,能源,电信和基础设施的走廊将中国与欧洲连接在一起。
- 便捷的道路、铁路、电力和水源已经建立了重要的站点基础设施。
- 稳定的管辖权以及对矿业友好的政府。
- FAR已与哈萨克斯坦政府签署了《投资激励协议》,规定到2026年应缴纳0%的税,到2024年应免征全部财产税。

储量和资源量

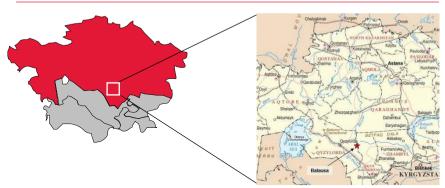
	吨位 (Mt)	V ₂ O ₅ %	MoO₃%	U₃O ₈ %
Balausqandiq – 矿体1号				
控制	21	0.67%	0.03%	0.01%
推断	2	0.67%	0.03%	0.01%
总	23.0	0.67%	0.03%	0.01%



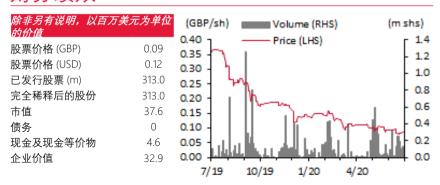


低成本钒生产商在哈萨克斯坦南部开发大型Balasausgandig钒矿床

现场地图



财务绩效



最大股东和公司管理

股东	所有权股份	姓名	职位
Andrey Kuznetsov	22.4%	Nicholas Bridgen	CEO
Nicholas Bridgen	20.7%	Andrey Kuznetsov	Operations Director
Citadel Equity Fund	13.4%	Chris Thomas	Non-Executive Director
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