



NOKENG
FLUORSPAR MINE (RF)(PTY) LTD

NOKENG FLUORSPAR MINE



Rob Wagner
Chief Executive Officer
November 2018

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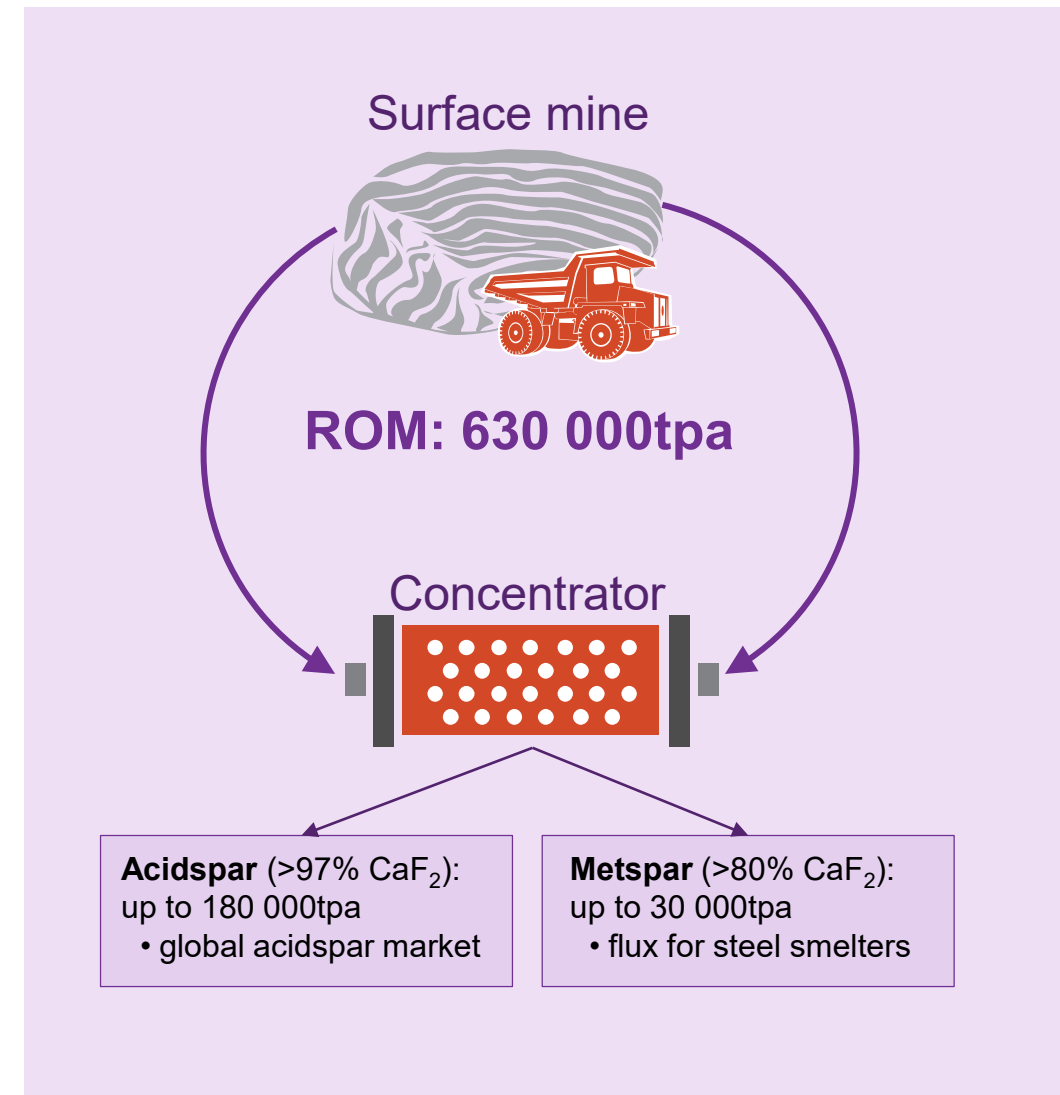
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ABOUT NOKENG FLUORSPAR MINE (RF) (PTY) LTD



- Producer of acidspar
- Privately held company
- Strong management team
- Mining right area: 1 309ha
- Two high-quality, adjacent haematite-fluorspar deposits:
 - Plattekop
 - Outwash Fan
 - with partially explored Wiltin
- Negotiated access agreement with landowner for part of mining area



ABOUT SEPFLUOR

- Privately-held public company, based in South Africa
- Focus on fluorspar mining, concentration and fluorochemical production
- Four fluorspar mining projects, ranging from early exploration to almost complete mines
- Fluorochemical plant – advanced study and permitting completed; financing started



STRATEGY

to aggressively enter fluorspar business by accelerating start of Nokeng Fluorspar Mine

ABOUT SEPFLUOR, cont'd

PHASE I DEVELOPMENT

Construct, commission and operate
Nokeng Fluorspar Mine

2017 – Q1 2019

PHASE 2 DEVELOPMENT

Complete DFS, construct,
commission and operate
Wallmannsthal Mine

Finance and construct a
downstream fluorochemical plant
producing AHF and AlF_3
at Ekandustria (SepChem)

2019 – 2022

FUTURE EXPLORATION

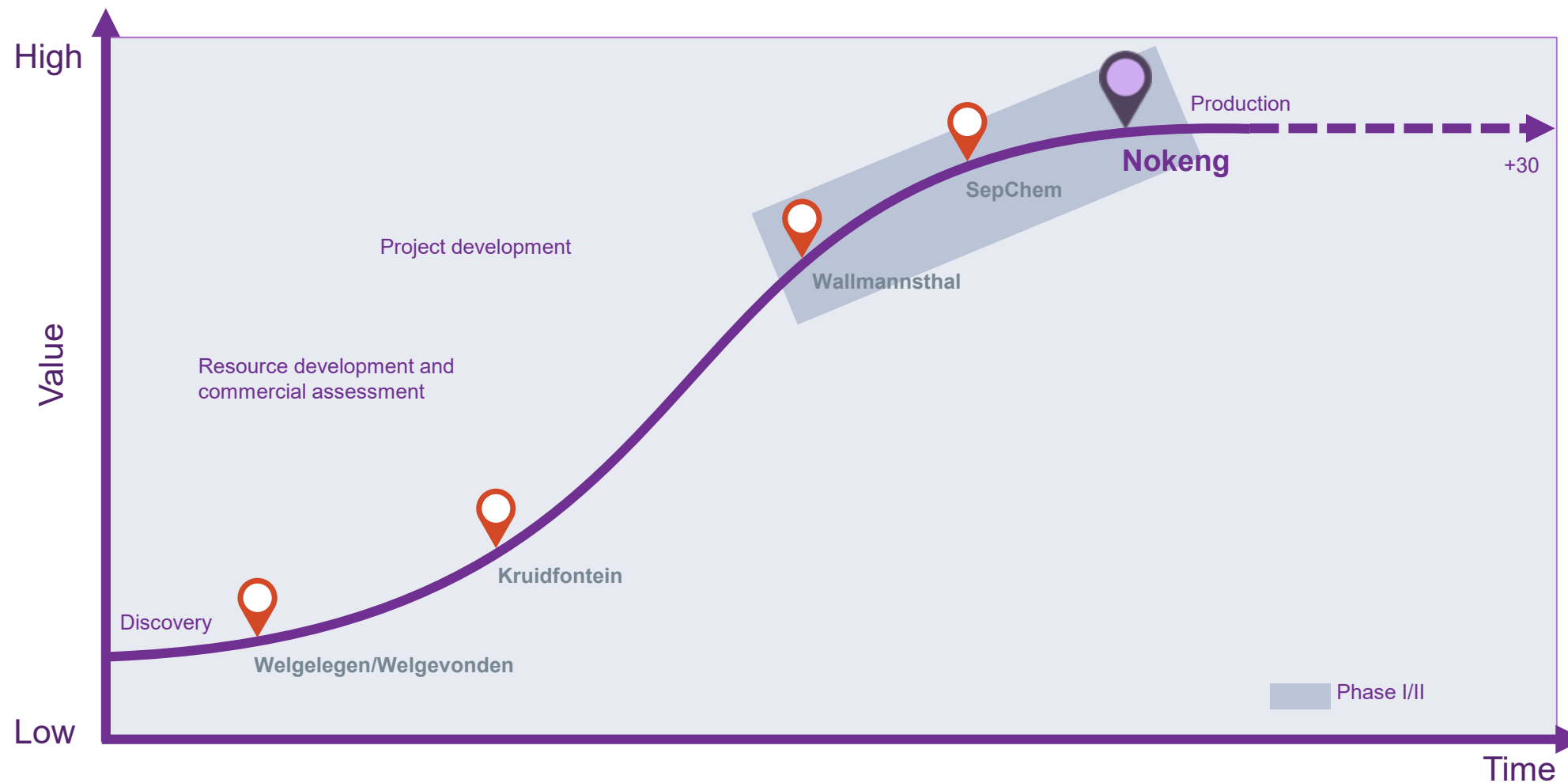
Develop a significant fluorspar
resource base:
Kruidfontein/Welgelegen/
Welgevonden

from 2020

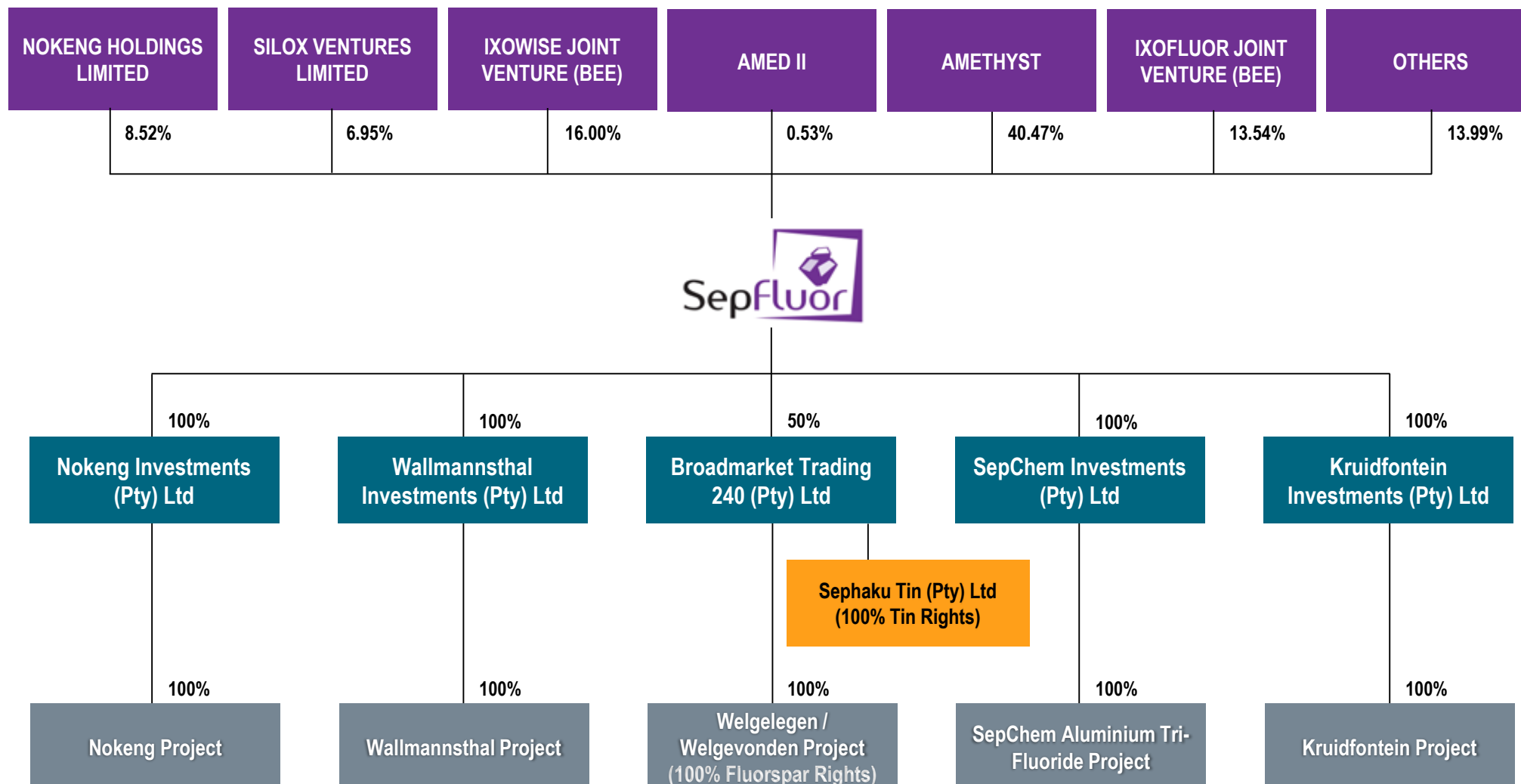


- | | | | | |
|---|-----------------------------------|-----------------------------|------------------------------------|----------|
| 1 | 2 | 3 | 4 | 5 |
| Welgelegen / Welgevonden
Fluorspar Deposit | Kruidfontein
Fluorspar Deposit | Nokeng
Fluorspar Deposit | Wallmannsthal
Fluorspar Deposit | SepChem |

SEPFLUOR VALUE CURVE



SEPFLUOR CORPORATE STRUCTURE



SEPFLUOR EXECUTIVE MANAGEMENT



1 Rob Wagner, Chief Executive Officer
BSc Eng (Elec), GCC (Mines and Works)

More than 28 years' mining experience across several commodities, including gold, chrome, nickel/copper and manganese



2 Elvis Rabohale, HR Manager and Manager Wallmannsthal
National Higher Diploma: Industrial Engineering, BCom Hons, MBA, Masters in Development Finance

Previously Chief Operations Officer, Mpumalanga Economic Growth Agency. Extensive human resources, community and labour relations experience at operating and executive management level



3 Curtis Mnisi, Chief Financial Officer
BCom Accountancy, BCompt Accountancy Hons, CA (SA)

Previously held various financial positions at De Beers. More recently, group financial manager, mining division general manager, Wescoal Holdings. Member of the South African Institute of Chartered Accountants



4 Loek van den Heever, Sales and Technical Manager
National Higher Diploma: Mechanical Engineering, GCC, BCom

Mechanical Engineer with 30 years' mining sector experience. Previous positions with Transvaal Mining and Finance, IMP Buffalo Fluorspar, Witkop Fluorspar, Sasol



5 Chris Mulder, Legal and Contracts Manager
BLC, LLB

Admitted as an attorney of the High Court of South Africa in 1985. Involved with various aspects of mineral and exploration law since 1994. Previously a mineral rights lawyer at BHP Billiton



6 Rose 'Shibe' Matjiu, Social Development Director
MA Medical Social Work, BA Social Work, Certificate in Mining and Minerals

Professional social worker. Extensive experience in community-related work, corporate social investment in public, private sectors

SEPFLUOR EXECUTIVE MANAGEMENT



7

7 Wilson Hlangwane, Mineral Resources Manager
BSc Hons (Geology), MCom (Business Management)

More than 11 years spent in exploration, project geology. Operational experience at Goldfields, then seven years as an exploration geologist in fluorspar, tin and coal



8

8 Johan Brits, Project Director: Nokeng
NHD (Extractive Metallurgy), MCom Project Management

More than 27 years' experience in PGMs, nickel, copper, cobalt, gold, coal and hydrometallurgy. Previously Manager Metallurgy, Manager Capital Projects (Tati Nickel Mine) and GM Metallurgy (Norilsk Nickel Africa)



9

9 Kevin Dabinett, General Manager: Nokeng
BSc Hons (Mining)

More than 41 years' mining and management experience. Copper, nickel, cobalt, gold, PGMs, manganese, asbestos, fluorspar, diamonds and graphite. Extensive work at greenfields, brownfields levels and in revitalisation of old mines



10

10 Ntando Nonoise, Exploration Manager: SepFluor
BSc Hons (Geology)

More than 10 years' experience in exploration. Extensive work in greenfields exploration in sub-Saharan Africa. Worked on commodities such as gold, nickel, PGMs, phosphates and fluorspar



11

11 Sabatha Mahote, Project Manager: SepChem
BSc (Chem Eng), MBA

Professional Engineer, registered with Engineering Council of South Africa. Began career with Anglovaal and subsequently moved to senior appointments at Sasol, De Beers and Metorex. While at Metorex, oversaw the Alfluorco Project (HF, H₂SO₄, AlF₃). Most recently an independent consultant





NOKENG
FLUORSPAR MINE (RF)(PTY) LTD

NOKENG: MINE/CONCENTRATOR OVERVIEW

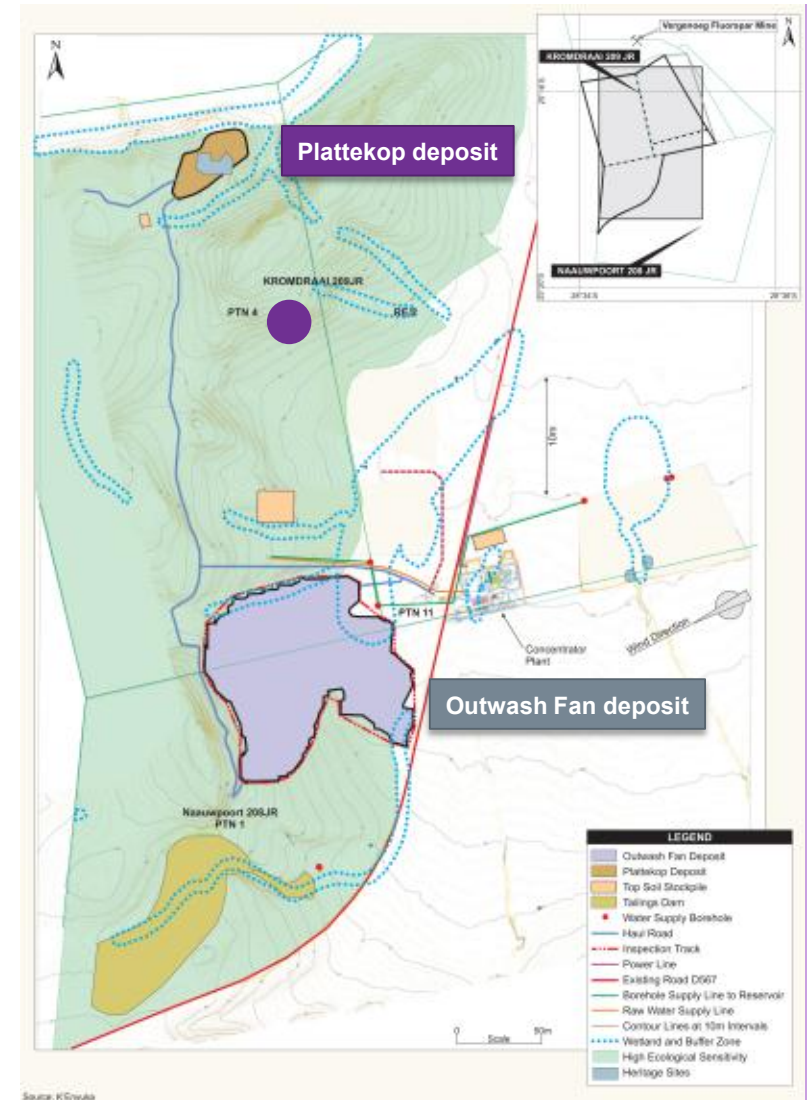
- R1.7 billion open pit fluorspar mine and concentrator near Rust de Winter
- 100% owned
- Regulatory and mining licence approvals in place
- Quality deposit, few deleterious elements
- 12.18Mt high quality SAMREC-compliant Reserve
- High grade of ~40% CaF_2 (Plattekop)
- Cheap to mine: open pit, virtually no overburden, low cost of production, latest technology
- Located close to major services
- 19-year LOM
 - first production by Q1 2019
 - 180ktpa acid grade fluorspar
- 30ktpa metallurgical grade fluorspar
- 630 000tpa average ROM feed rate
- 80km north east of Pretoria
- Immediately south of producing Vergenoeg mine
- Road access: D567 connects Moloto and Rust de Winter
- Rail access: 32km by road to Pienaarsrivier Rail Siding



NOKENG: GEOLOGY

- Mineralisation
 - Lebowa Granite Suite of the Bushveld Complex
 - volcanogenic type forming intrusive pipe, extrusive stratiform deposits
 - eroded volcano resulted in three fluorspar hematite deposits:
 - Plattekop
 - Outwash Fan
 - Vergenoeg Pipe

PLATTEKOP	OUTWASH FAN
20m thick layer of fluorspar-hematite occurs, south of Vergenoeg Pipe	Stratiform fluorspar occurring 3km south of Plattekop
A channel lag feeder from Vergenoeg vent, is bedded to finely laminated	Formed as a result of sedimentary deposition after erosion of pyroclastic rock suite
Averages 38.16% CaF_2 and 25% Fe	Averages 22.7% CaF_2 and 40% Fe
200m X 400m plateau capping Plattekop Hill	



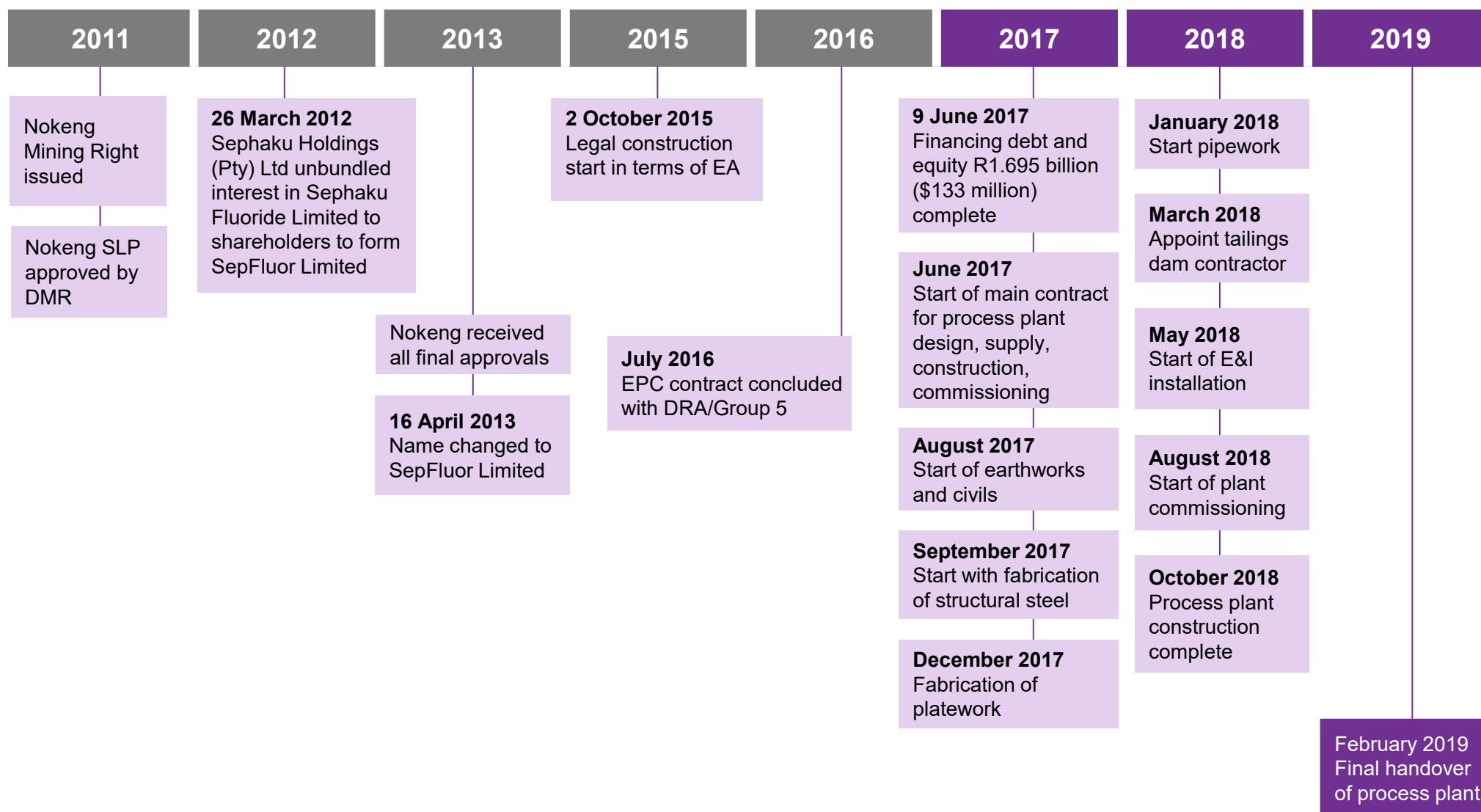
Source: KCSynka

NOKENG: RESERVE

DEPOSIT	CATEGORY	TONNES (000)	CONTAINED CAF_2 (000t)	$\text{CAF}_2\%$
Plattekop	Proven	2 696	1 039	38.6
Outwash Fan	Proven	9 065	2 055	22.7
Total proven		11 761	3 094	26.3
Plattekop	Probable	422	150	35.7
Outwash Fan	Probable	0	0	0
Total probable		422	150	35.7
Total Mineral Reserve		12 182	3 244	26.6



NOKENG: PRODUCTION TIMELINE



NOKENG: ENERGY AND WATER SUPPLY

- Electricity
 - national grid via new overhead line from Rust de Winter sub-station built under new Eskom 'self-build' contract
 - third party photo voltaic and wind electricity generation options
- Bulk water
 - borehole extraction



NOKENG: ENVIRONMENTAL MANAGEMENT

Legislative compliance

- Mining right, EMP, SLP approvals in place until 2031
- Environmental authorisation from April 2013
- Water licence issued July 2013

The project supports Equator Principles & IFC Standards

- Social management plan completed
- Greenhouse gas inventory completed
- Contractor control plans completed
- Energy efficiency study completed
- Cumulative impact assessment in progress

Project monitoring programme

- Biodiversity, groundwater, surface water, dust, noise, light and social monitoring
- External environmental control officer appointed to:
 - ensure full implementation of all environmental acts
 - do environmental audits, inspections, measure compliance



NOKENG: SOCIAL AND LABOUR PLAN

Employment

- Over 900 fixed-term jobs during construction
- Around 200 permanent jobs during operational phase

Human resources development

- Manpower/labour uptake year 1 (2018) employment commences
- Skills development: technical training, on-the-job training by construction contractors followed by mentoring; supplementary skills by Nokeng Fluorspar mine
- Constructed Dr Lelau Mohuba Training Centre
- Career path and mentorship planned for when in full employment
- Mentoring of SMMEs
- Community Engagement Forum in place

Local economic development

- Financial provision for SLP
- Plans to invest in line with integrated development plans of relevant municipalities
- Stakeholder engagement



NOKENG: POSSIBLE CHALLENGES

- Some degree of legislative uncertainty
- Power shortage and load shedding
- Labour relations
- Fuel price coupled with exchange rate volatility
- Community expectations

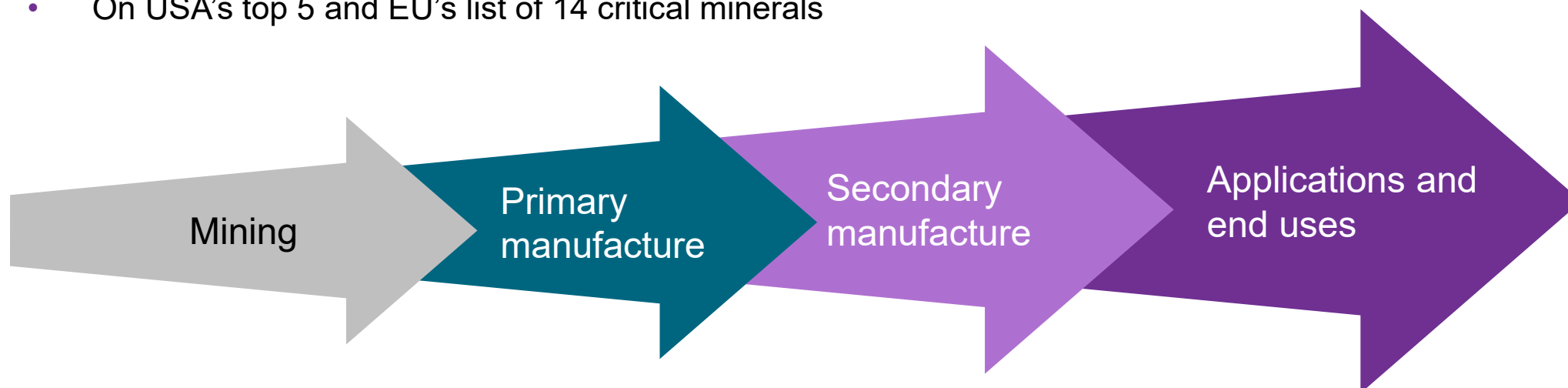


ABOUT FLUORSPAR



FLUORSPAR VALUE CHAIN

- Calcium fluoride (CaF_2) is a critical commodity for all industrialised nations
- On USA's top 5 and EU's list of 14 critical minerals



Fluorspar / fluorite

Mineral

Composed of CaF_2

Dominant source for chemical fluorine (largely irreplaceable in its use)

Aluminium production

Glass and ceramics making

Hydrogen fluoride

Iron and steel casting

Other

Inorganic salts

Consumer additives

Fluoropolymers

Fluoroaromatics

Fluoroaliphatics

Aerospace

LCD screens

Microelectronic sensors

Lithium batteries

Solar panels

Flame retardant clothing

Speciality coatings

Composites for automobiles

Nuclear power

Toothpaste, anaesthetics

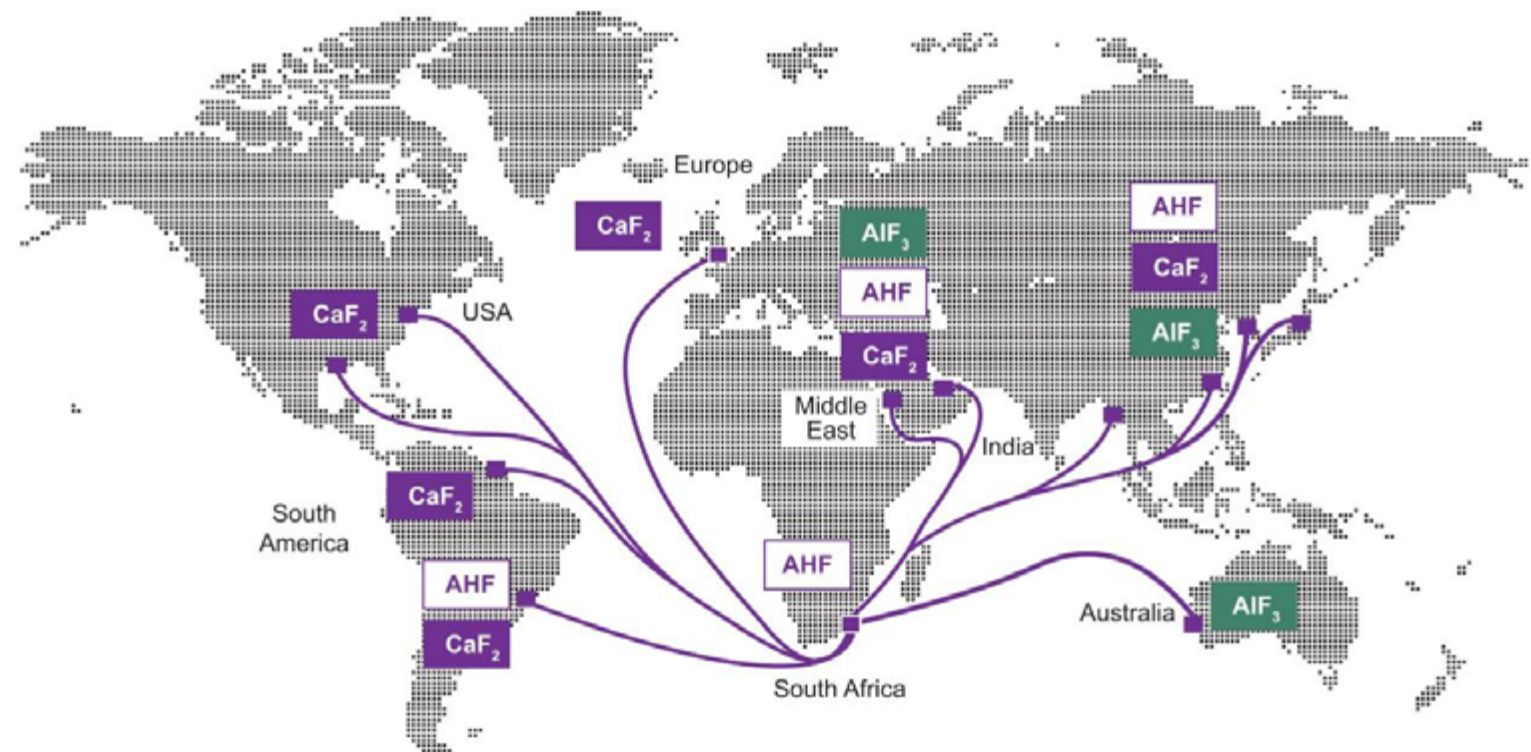
Refrigerants, light bulbs

Mouth wash, food packaging

Active pharmaceutical ingredients

ACCESS TO GLOBAL MARKETS

- South Africa set to be world's premium fluorspar provider
 - SA has 17% of world's fluorspar reserves (China has 10%)
 - 95% of SA acidspar exported
 - strategically positioned
 - excellent logistics from Richards Bay and Durban ports



CONTACTS



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