



Emerging Gold Producer

July 2016
INVESTOR UPDATE

ASX CODE: AHK
www.arkmines.com.au

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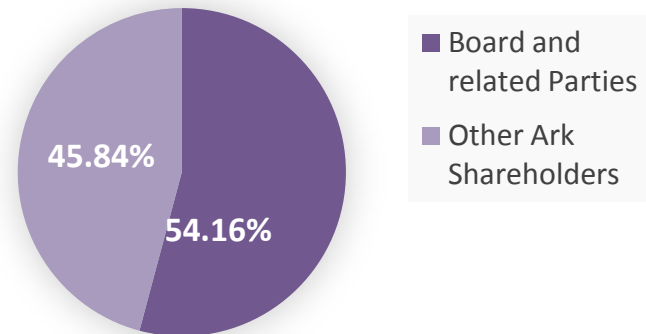
Competent Persons Report

The information in this report is based on information compiled by Mr. Roger Jackson who is a 20 + year Member of the Australasian Institute of Mining and Metallurgy and a Member of Australian Institute of Company Directors. Mr. Jackson has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration results, Mineral Resources and Ore Reserves’. Mr. Jackson consents to the inclusion of this report on the matters based on his information in the form and context in which it appears.

Corporate Overview

- 2011 listing on the Australian Securities Exchange raising AUD\$3.1M – ASX code is AHK
- Emerging junior gold producer
 - Mining Leases in Northern Territory (Mt. Porter and Glencoe)
 - Exploration Leases in N.T & N.S.W, Australia
- Planning for gold production August 2016
- Headquartered in CBD, Sydney, Australia
- No outstanding share options
- 3 directors (includes company secretary)
- 30 day VWAP for AHK shares circa. AUD\$0.15

Shareholder Structure



ASX Code	AHK
Ordinary Shares	44,381,488
Options	0
Market Cap @14.5c/share	6,820,000
Cash (today)	300,000
Debt Facility (pending)	\$3,400,000

Highly Credentialed Management

- **Non Executive Chairman/Director**
 - **Mr. Antony Corel** – Australian/HKSAR lawyer
 - Experienced mining lawyer
- **Non Executive Director/Company Secretary**
 - **Mr. Ian Mitchell** – Australian lawyer
 - 25 years director/secretary experience in mining companies
- **Managing Director**
 - **Roger Jackson** - BSc, Grad Dip -Fin Man, MAusIMM , AICD
 - 25 years experience in the resource industry including geology/geophysics, finance, mine services,
 - Experienced mine operator in Queensland, New South Wales and Tasmanian gold operations
 - Experienced metal trader
 - Experience in gold mining and gold resource M and A
- **General Manager – Operations**
 - **Darren Gibcus** - B.Eng(Mining), FAusIMM
 - Holds a WA Quarry Manager's Certificate of Competency and can act as a competent person for JORC compliance
 - 24 years' experience in open pit and underground gold, silver, nickel and iron ore mining operations, working in feasibility, technical, operational and managerial roles
 - Wide experience in contractor and owner mining operations gained at small and large scale mines both in Australia and internationally
- **Accountants – Professional Edge, Sydney**
 - **Mr. Ian White**
- **Auditors – BDO East Coast Partnership Australia, Sydney**
 - **Mr. Gareth Few**

Gold Assets

Northern Territory, Australia 100% owned by AHK

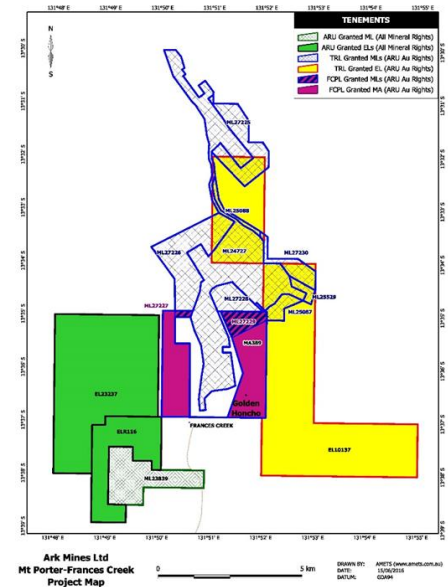
-  Mount Porter/Pine Creek (completion in process)
 - Mining Licence 22839 and ELR116
 - 34,200 Au ounces JORC 2004 – expandable resource
 - In production August 2016 23-25,000 poured ozs
 - Producing cash circa Aud\$10M

-  Mt Porter North (completion in process)
-  Mt Porter South (completion in process)

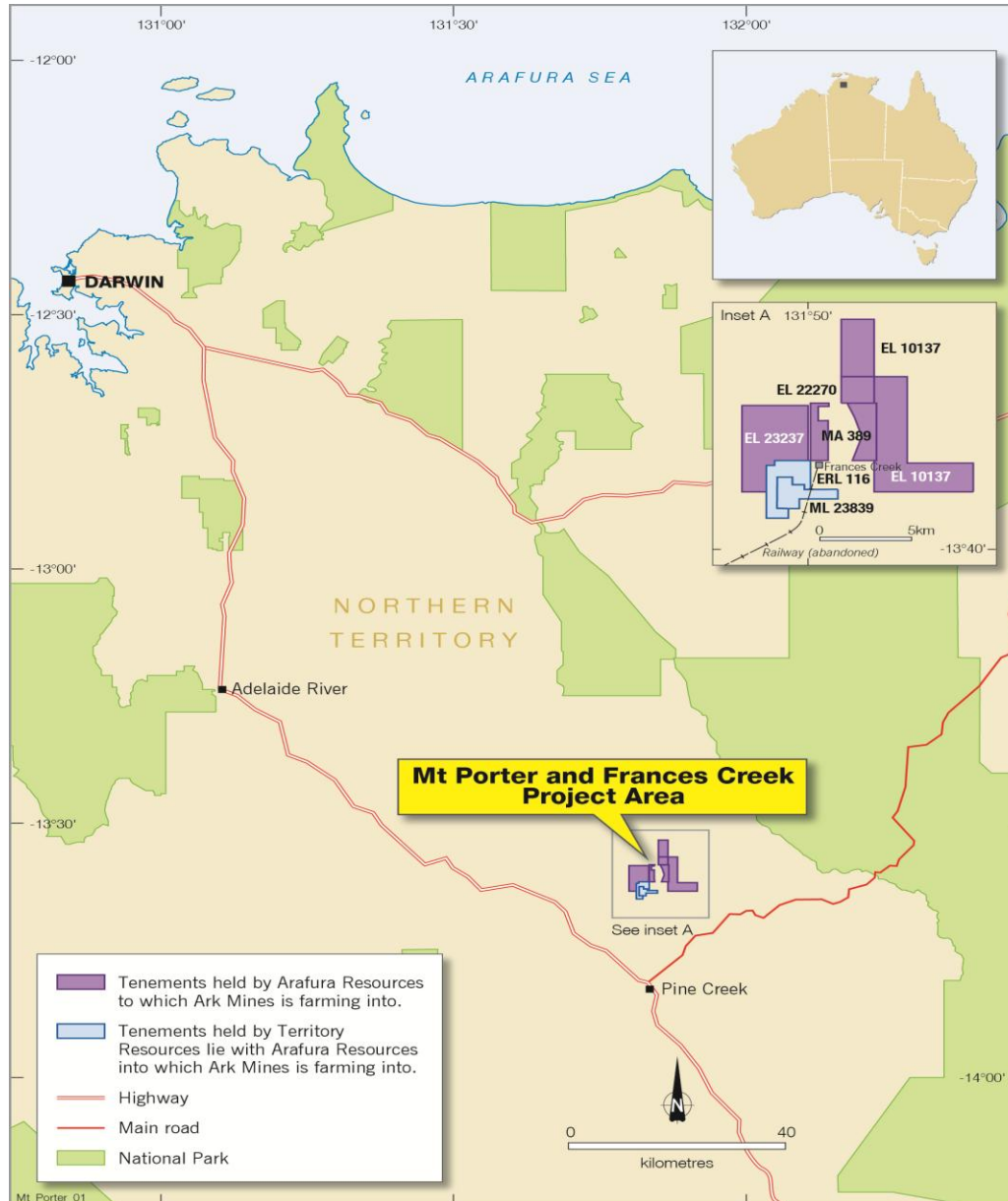
-  Golden Honcho (completion in process)
 - 2 exploration licenses and 7 mining prospects
 - Amigo, Austerian, Bandito, Gulf, Honcho, Senorita & Slips
 - Initial JORC 2012 for two projects now being prepared

-  Glencoe (completed)
 - 42,900 Au ounces Jorc 2004 – expandable resource
 - In production with in twelve months

- Actively engaged in securing other gold resources
 - 3 under verbal offer

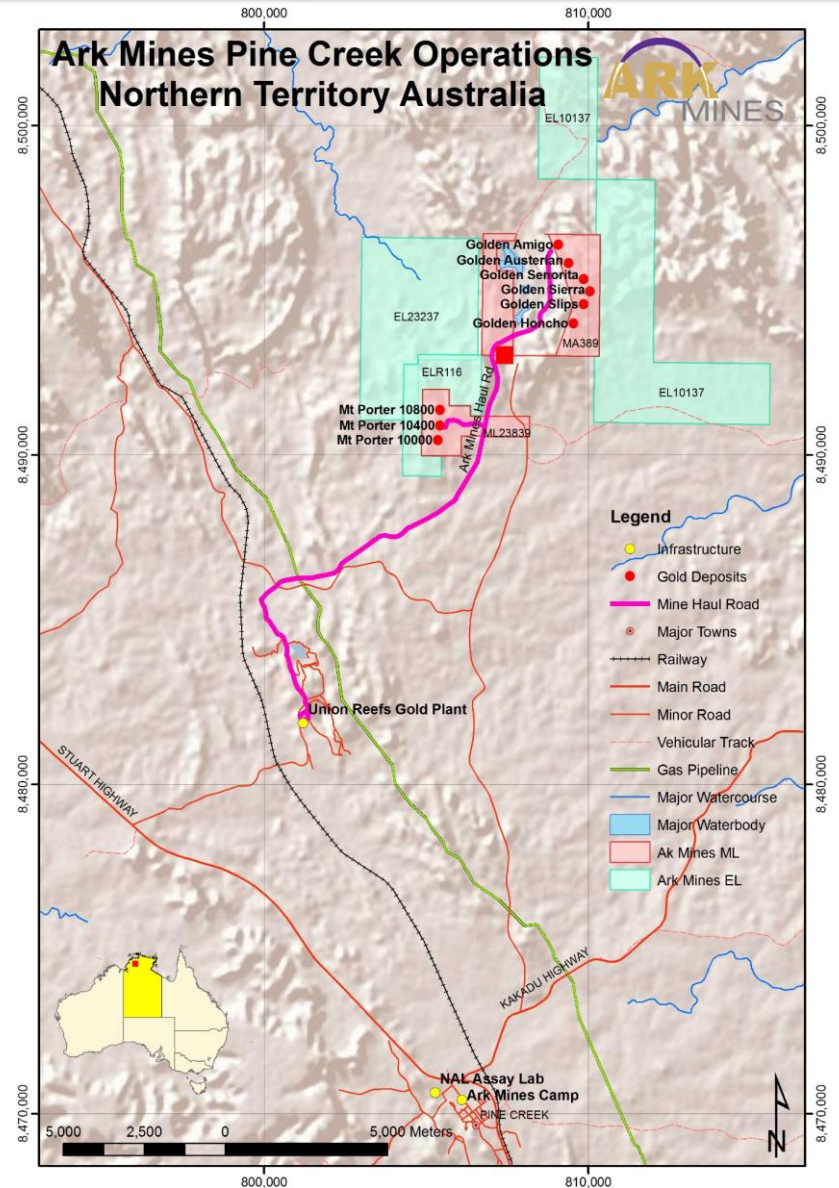


Northern Territory Assets

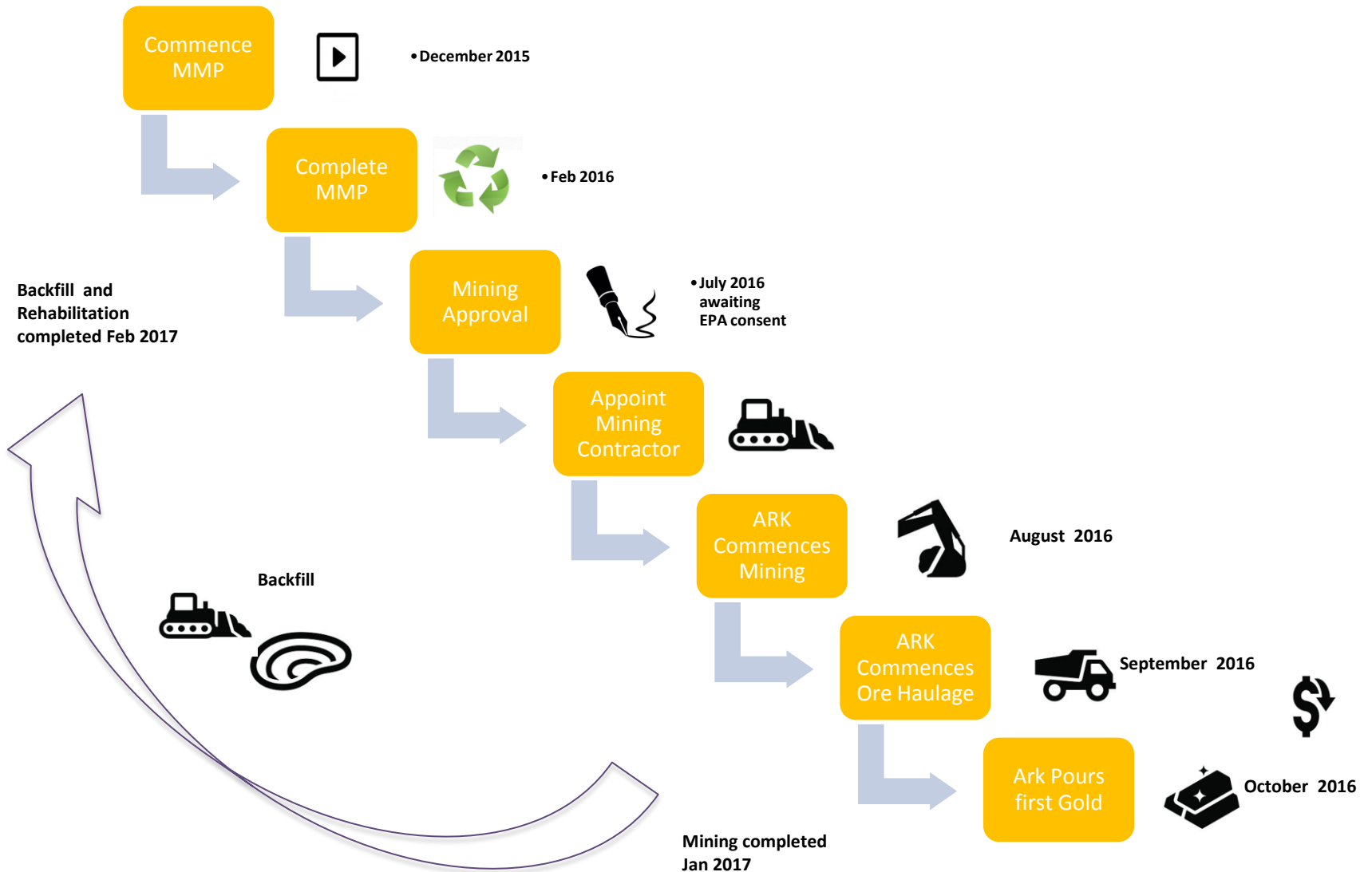


Mt Porter Project

- Located 15km from the Union reef plant
- Haul road extends to the Mill from Mt Porter
- Mine worker accommodation in Pine Creek

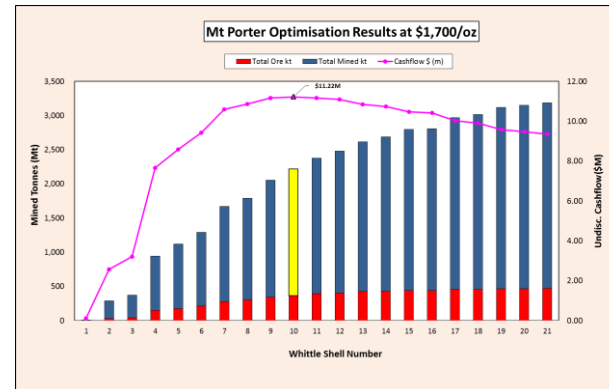
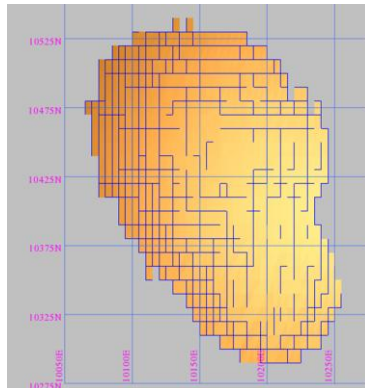


Steps to Mining Mt Porter

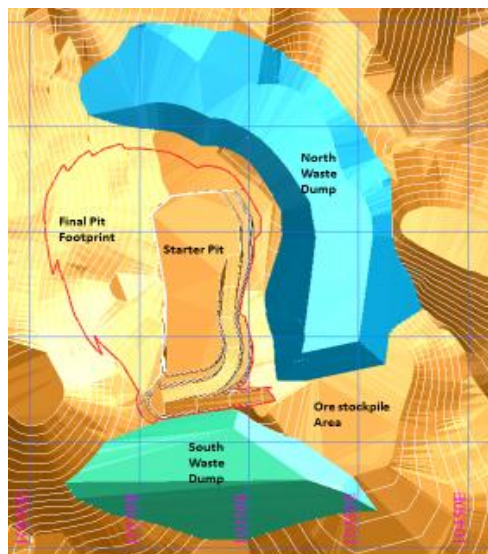
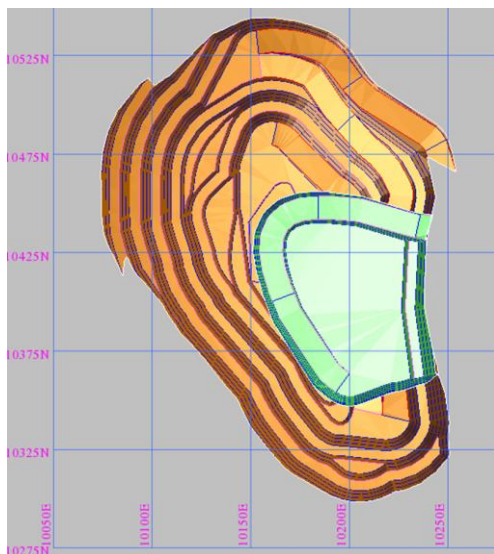
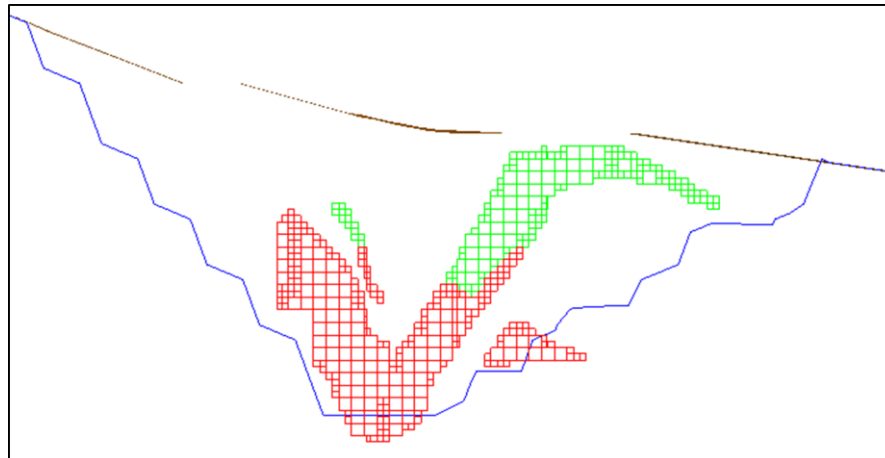
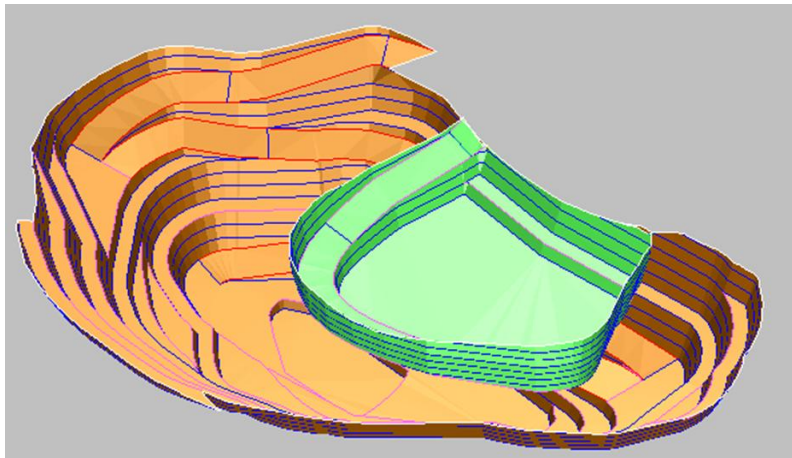


Mt Porter Mining Plan

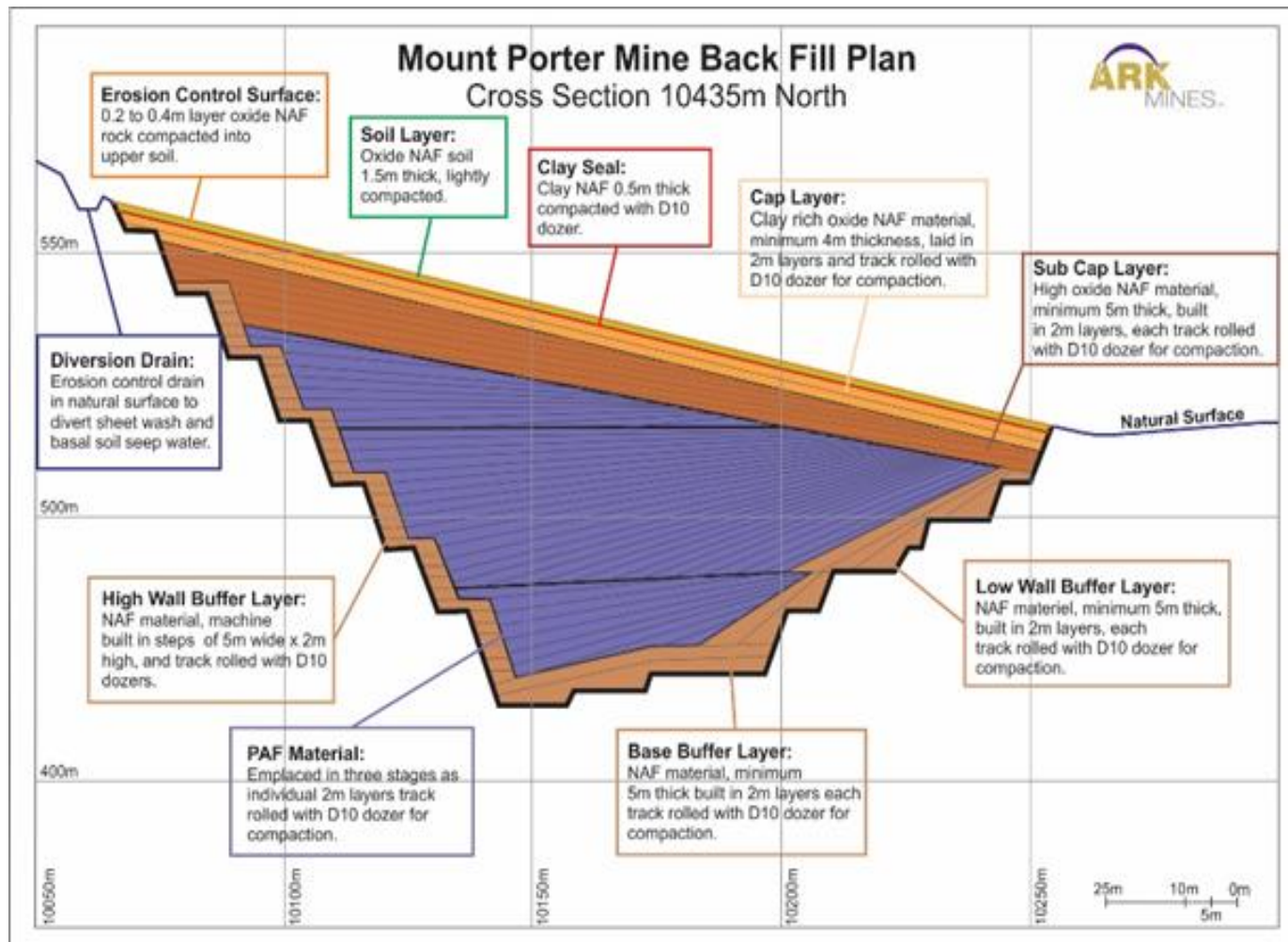
- Mt Porter Mining Lease 22389 is in good standing
- Extensive and independent metallurgical testing completed
 - IMO gold recoveries - 73%
 - Union Reef Mill – 76%
- Mt Porter Whittle pit optimisation and analysis completed
 - Supports cash flow positive mining case for 'Union Reefs' mill
 - Mill located approx. 15km from Mt Porter pit
- Binding Agreement signed with 'Union Reefs' mill owner/operator
 - To commence mining/processing September 2016
 - Up to 500k tonnes and circa. 23,000- 26,000 gold ounces
 - Potential for recoveries to be increased to between 75% and 76% in the fresh
- Native title agreements and approvals obtained and in place
- \$8.5 - \$10 Million in free cash over 6 months (excluding financial repayments)
- No tax



Mt Porter Pit Design



Mt Porter Backfill Design



Mt Porter Physicals and Financials

MT PORTER PROJECT SUMMARY			
Item	Unit		TOTAL

Mining	Ore	<i>kt</i>	494.6
		<i>g/t</i>	2.22
		<i>koz</i>	35.4
	Waste	<i>kt</i>	1824.6
	Total	<i>kt</i>	2319.2
	Strip Ratio	<i>t W : t O</i>	
Milling	Ore	<i>kt</i>	494.6
		<i>g/t</i>	2.22
		<i>koz</i>	35.4
Produced	Gold	<i>koz</i>	26.8
	Recovery	<i>%</i>	75.7

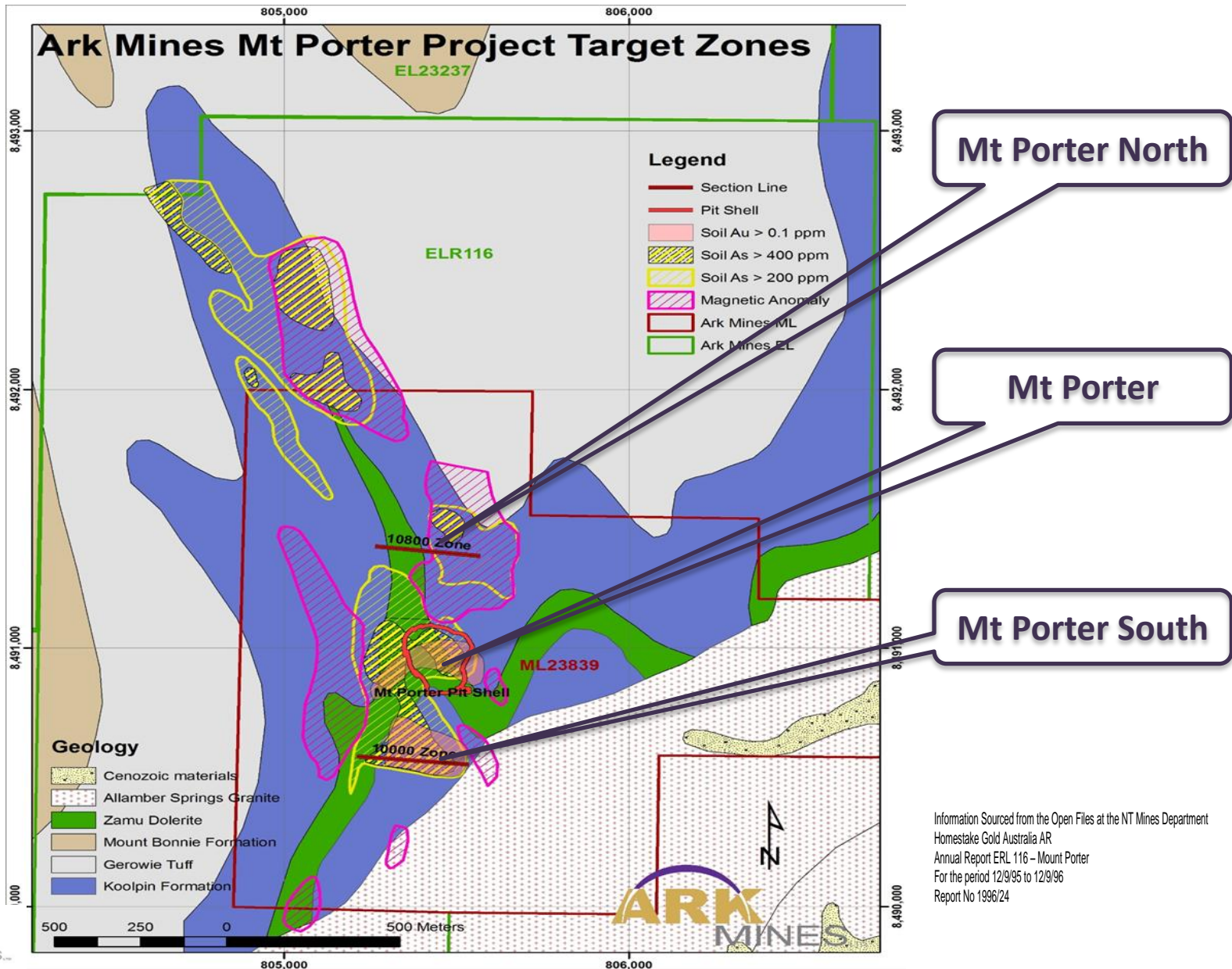
Capital	Start-up	A\$	0.4m
Costs	Operating	A\$	30.9m
	Total	A\$	35.0m
Unit Cost	Operating	A\$/oz	1,155
	All In	A\$/oz	1,308

MT PORTER DETAILED UNIT COSTS			
Item	Unit		Cost

Mining	<i>A\$/t</i>	<i>total tonnes</i>	4.56
Haulage	<i>A\$/t</i>	<i>ore tonnes</i>	1.45
Milling	<i>A\$/t</i>	<i>ore tonnes</i>	38.50
Site Admin	<i>A\$/t</i>	<i>ore tonnes</i>	1.05

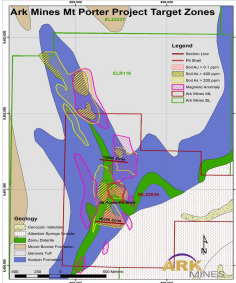
- At a Gold Price of A\$1700/oz, the net cash to Ark from the project (including all company overheads) for the period is A\$9.5M to A\$11.5M after all costs

Mt Porter Anticline

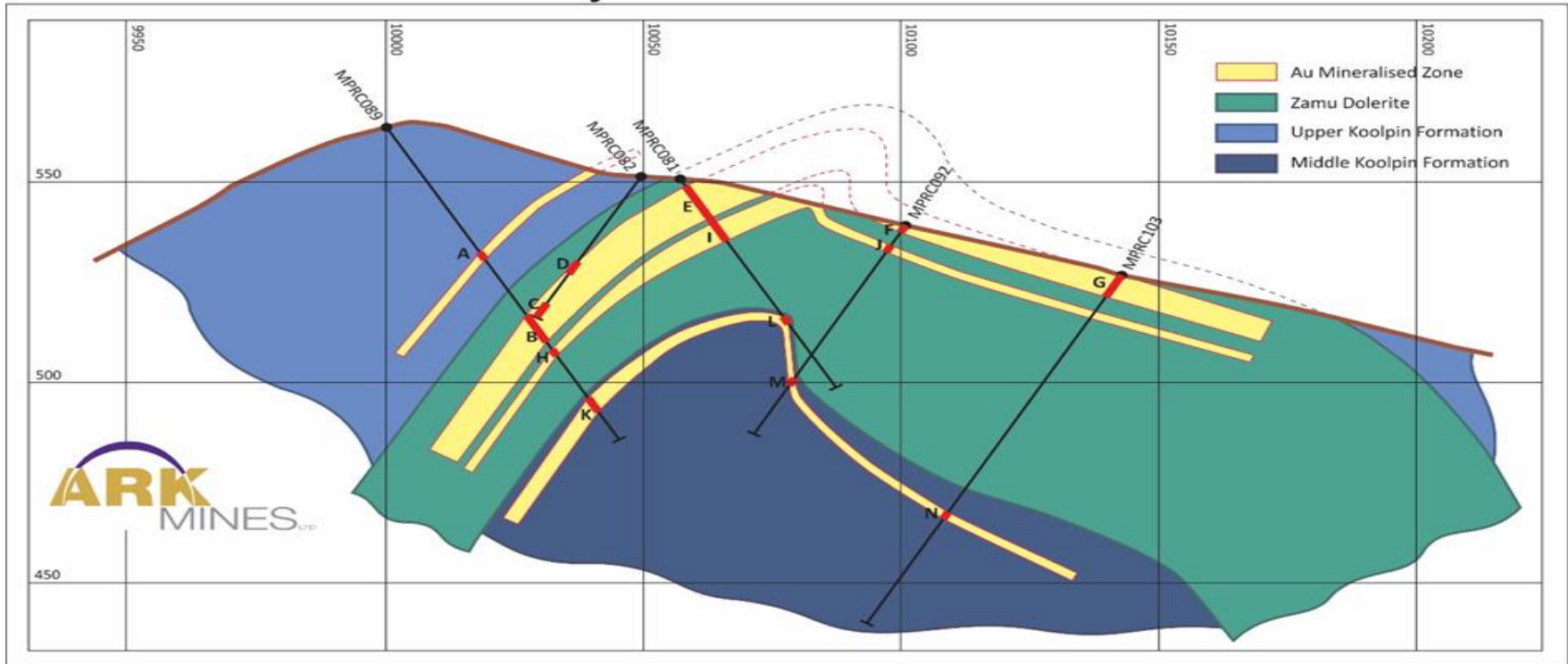


Information Sourced from the Open Files at the NT Mines Department
 Homestake Gold Australia AR
 Annual Report ERL 116 – Mount Porter
 For the period 12/9/95 to 12/9/96
 Report No 1996/24

Mt Porter North



Ark Mines Mount Porter Project 10800m N Section



Intercept Table

A: 2m at 1.46 g/t Au
B: 8m at 8.38 g/t Au (inc. 4m at 14.35 g/t Au)
C: 4m at 43.05 g/t Au
D: 4m at 1.14 g/t Au
E: 10m at 1.56 g/t Au (inc. 4m at 3.03 g/t Au)

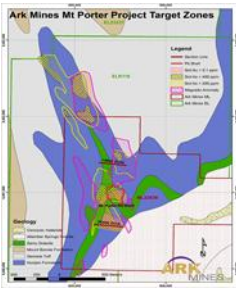
F: 2m at 2.28 g/t Au
G: 6m at 1.39 g/t Au
H: 2m at 1.01 g/t Au
I: 4m at 1.63 g/t Au
J: 2m at 5.20 g/t Au

K: 4m at 0.53 g/t Au
L: 2m at 0.58 g/t Au
M: 2m at 1.46 g/t Au
N: 2m at 0.54 g/t Au

Cutoff grade: 0.50 g/t Au
 Topcut grade: 20.0 g/t Au

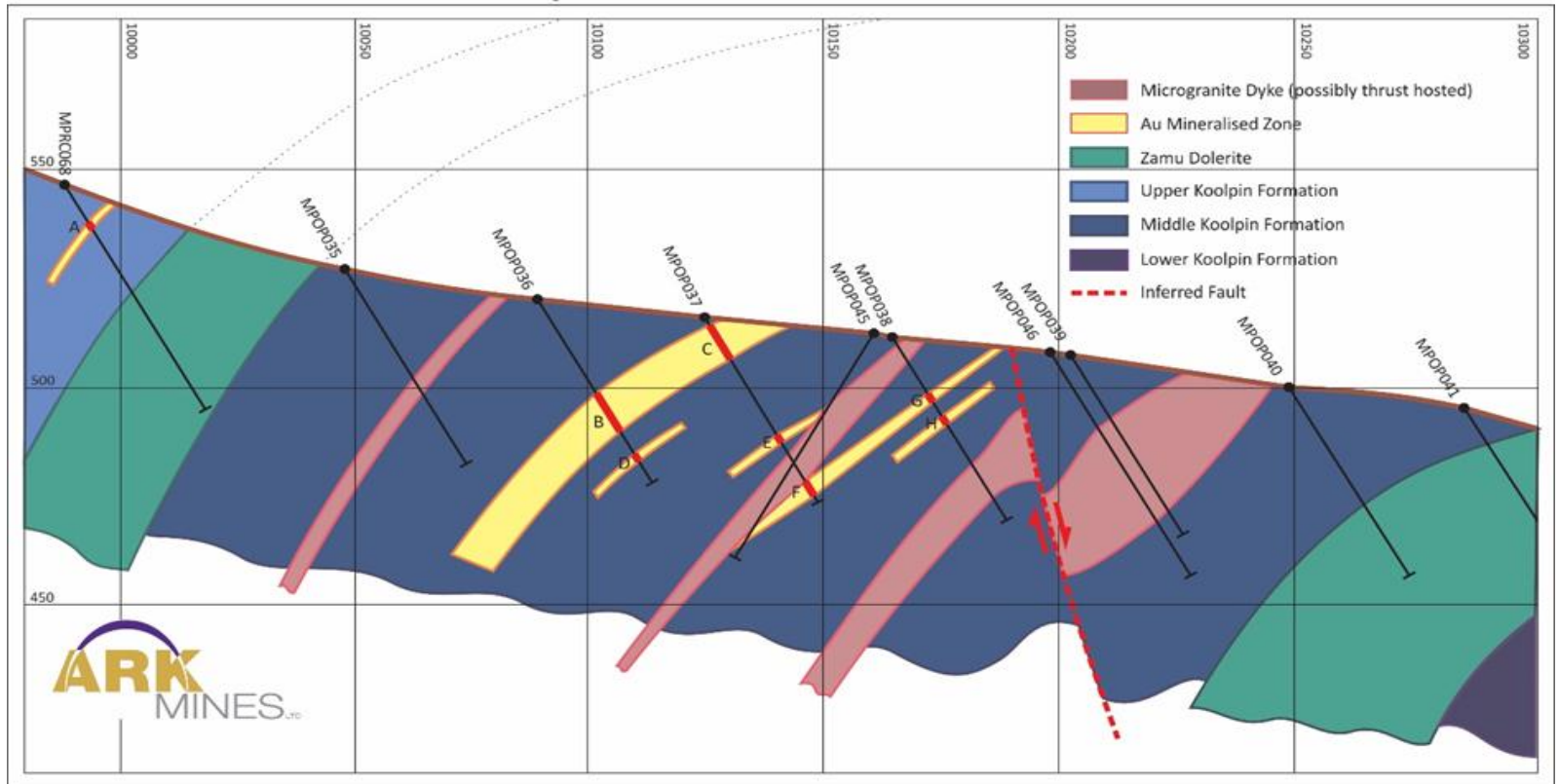


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Mt Porter South

Ark Mines Mount Porter Project 10000m N Section



Intercept Table

A: 2m at 1.12 g/t Au

B: 10m at 1.15 g/t Au

C: 9m at 1.55 g/t Au (inc. 4m at 2.69 g/t Au)

D: 2m at 1.03 g/t Au

E: 2m at 0.61 g/t Au

F: 4m at 0.56 g/t Au

G: 2m at 0.74 g/t Au

H: 2m at 1.03 g/t Au

Cutoff grade: 0.50 g/t Au

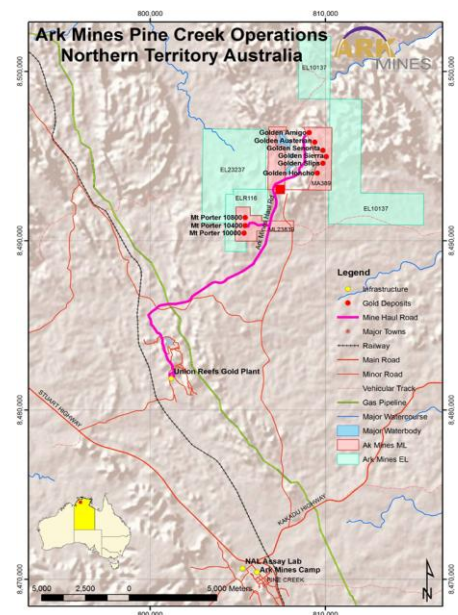
Topcut grade: 20.0 g/t Au



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Golden Honcho

- Exploration Licences 10137 & 23237 in good standing
- Seven (7) highly prospective gold exposed reefs in a 2.5km zone amenable to simple, low cost, open pit mining
- Over 2.4km of strike length – only 390m (16.25%) drilled
- Company spending to date >AUD\$450K
- Recent mapping and rock chip sampling indicates there may be other significant deposits within this lease
- Advanced planning for further AUD\$200K - \$400K spend including additional drilling and Mining Lease application



Golden Honcho

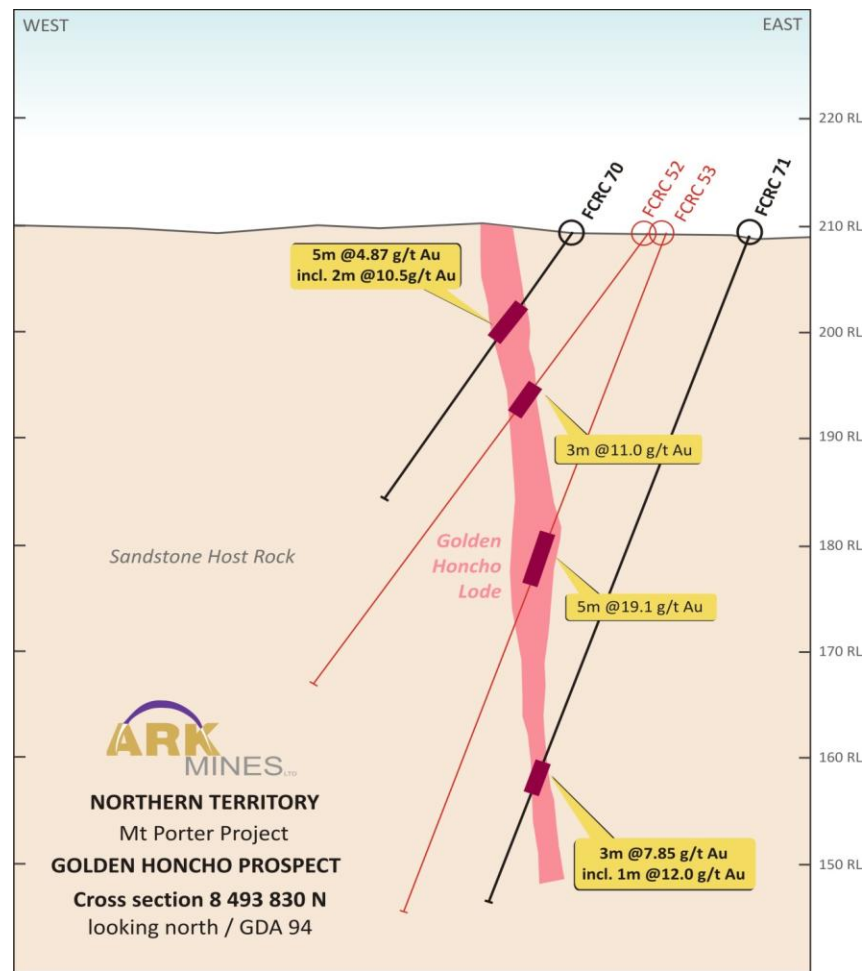
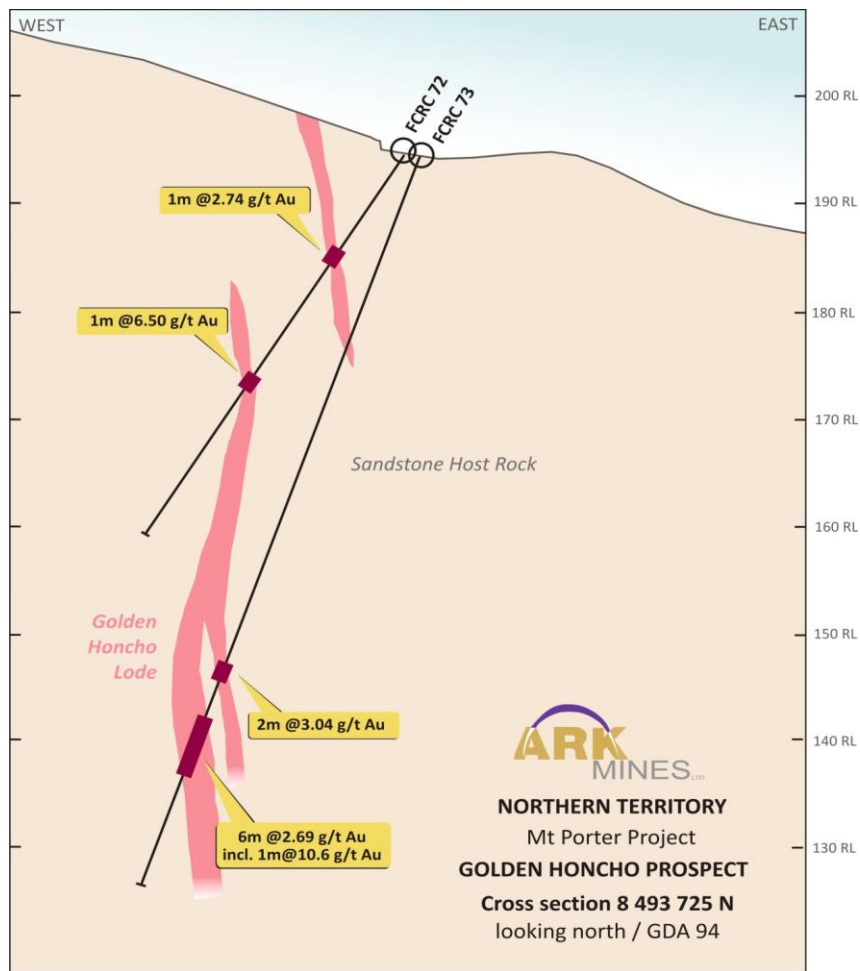
- Oxide zone between 40m and 50m
- High Grade OP and underground Mining potential
- 45 AHK & ARU holes have intersected gold
- Current strike length circa. 2400m
- 51 intersections >1m over 5g/t including: (refer to AHK ASX announcement 3/11/15)



▪ 5m@19.11g/t	▪ 4m@47.54g/t
▪ 3m@10.96g/t	▪ 2m@13.29g/t
▪ 2m@13.29g/t	▪ 2m@10.5g/t
▪ 2m@21g/t	▪ 2m@12.9g/t
▪ 5m@19.11g/t	▪ 3m@10.66g/t
▪ 2m@13.29g/t	▪ 2m@10.5g/t
▪ 2m@11.9g/t	▪ 3m@9.59g/t
▪ 2m@11.61g/t	▪ 2m@8.15g/t



Honcho Cross Sections

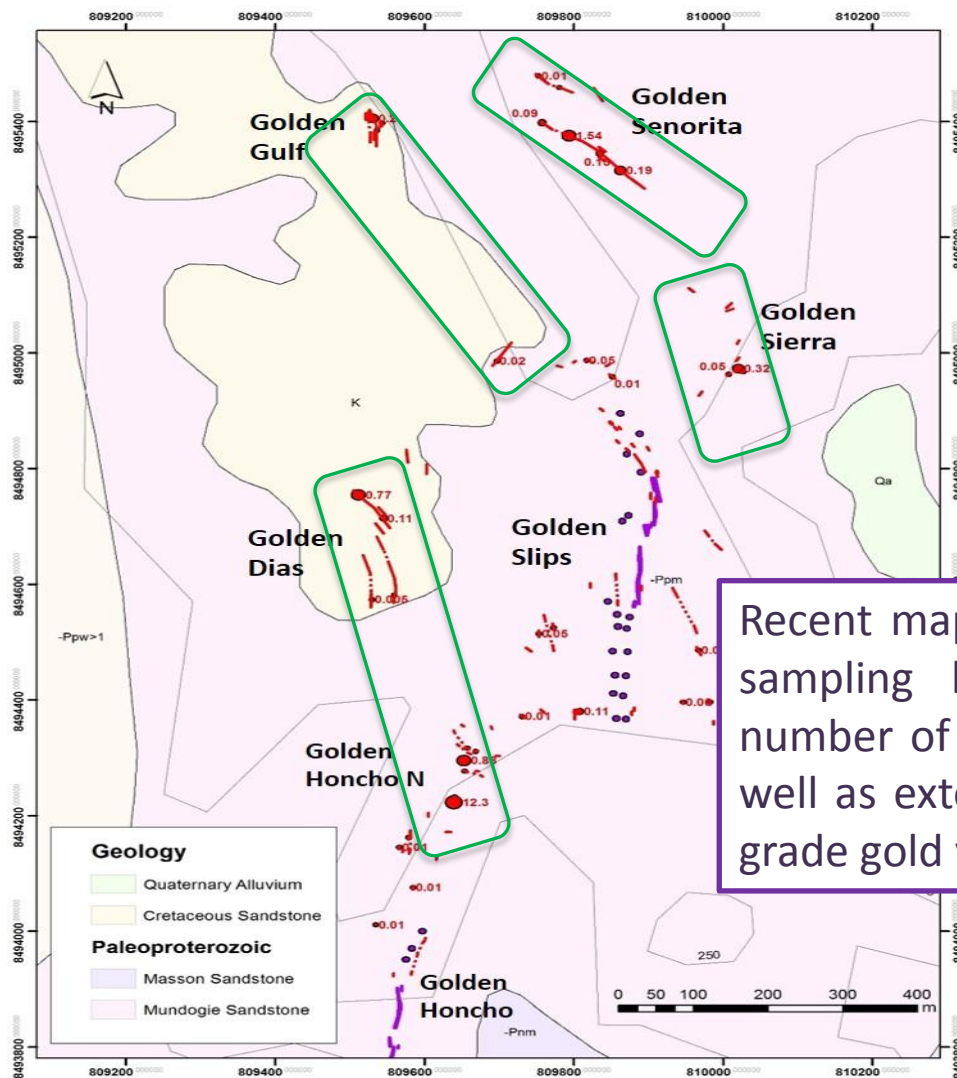


▪ (refer to AHK ASX announcement 3/11/15)

Excellent Drilling Results

- Best 2015 AHK intersections :
 - 3m @ 13.41 g/t Au, including 1m @ 30.8 g/t Au;
 - 2m @ 12.9g/t Au, including 1m @14.5 g/t Au;
 - 2m @ 6.65g/t Au, including 1m @11.7 g/t Au;
 - 1m @ 6.42g/t Au.
- Best 2014 AHK intersections :
 - 2m @ 21g/t Au;
 - 2m @ 11.9g/t Au;
 - 2m @ 10.5g/t Au; and
 - 3m @7.5g/t Au;
 - with 21 other intersections over 1m over 5g/t Au.
- Best 2004 Arafura (ARU) intersections :
 - 5m @ 19.11g/t Au;
 - 4m @ 47.54g/t Au;
 - 2m @ 10.07g/t Au;
 - 2m @ 13.29g/t Au;
 - 2m@ 11.61g/t Au;
 - 3m @ 10.96g/t Au;
 - 3m @ 10.66 g/t Au;
 - 2m @ 21g/t Au;
 - 2m @ 11.9g/t Au;
 - 2m @ 10.5g/t Au;
 - 2m @9.92g/t Au; and
 - 3m @7.5g/t Au
- with 30 other intersections over 1m over 5g/t Au
 - (refer to AHK ASX announcement 3/11/15)

New Targets



GLENCOE ML29679

- 704,000 tonnes @1.9g/t Au with 253,000 tonnes @2.2 g/t Au oxide and 451,000 tonnes @ 1.7 g/t Au Fresh, this mineral resource estimate complies with recommendations in the Australasian Code for Reporting of Mineral Resources and Ore Reserves (2004) by the Joint Ore Reserves Committee (JORC)
- Metallurgical test work has shown high gravity/cyanidation recoveries of 95.85% (Ammtec 2012). Reagent consumptions were relatively low, with lime and cyanide consumption of 1.01 and 0.77 kg/t, respectively
- Bulk sample has been undertaken and reconcilable
- Pre strip completed
- The oxide zone is 30m below surface
- The deposit is proximal to the other AHK tenements and within trucking distance of Newmarket's Union Reef Gold Mill;
- A strike length of 800m (from 3,300mE to 4,100mE) with potential for extensions
- The deposit being located in three mineralized zones, the largest of which is a round 700m in strike length, 100m down dip and up to 15m in width
- Sealed road access
- Flat and easily accessible terrain
- No existing entitlements



Why Invest in Ark Mines

- Low capex and Opex Cash Earner
- Small High grade Gold Pit Factory
- High Calibre Gold Real Estate
- Non Dilutive Future
- AHK undervalued against peers

Contact Information

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