



# 澳大利亚 北部省

遍地宝藏 未来希望

## 澳大利亚北部省 潜在矿业项目简介

2012 年 2 月

This document contains a summary of likely new mining developments in the Northern Territory over the next 1-3 years. It is not intended to be comprehensive and does not contain a number of projects that are at various stages of feasibility study. For further information on mining developments, contact the Resource Development Division of Department of Resources on +618 8999 1385

## MINING DEVELOPMENTS SUMMARY – February 2012 UPDATE

### 1. 在过去 24 个月中开发的项目

公司名称	项目区名称	项目区地点	主要矿产品	项目阶段
Gemco	Gemco Refirb	Groote Eylandt	Manganese	Plant upgrade
Crocodile Gold	Brocks Creek	Pine Creek	Gold	Reopen mine
Crocodile Gold	Howley	Pine Creek	Gold	Reopen mine
Crocodile Gold	Union Reefs	Pine Creek	Gold	Reopen plant
OM Manganese	Bootu Creek	Tennant	Manganese	Secondary Plant
Matilda Zircon	Lethbridge West	Tiwi Islands	Zircon	Reopen mine
Crocodile Gold	Princess Louise	Pine Creek	Gold	New mine
Crocodile Gold	North Point	Pine Creek	Gold	New mine
Matilda Zircon	Lethbridge Sth	Tiwi Islands	Zircon	New deposit

### 2. 未来 12 月的潜在项目 – 公司已经向政府提交项目报告

公司名称	矿区名称	项目区地点	主要矿产品	开发阶段
AAM	Spinifex Bore	Alice Springs	Garnet sands	New mine
Aust Ilmenite Res	SILL80	Roper River	Fe, Ti, V	New mine
Aard Metals	Warrego Tails	Tennant	Magnetite, Au	Reprocessing
Tanami Gold	Tanami Central	Tanami	Gold	Reopen mine
Thor Mining	Molyhil	Alice Springs	Mo, W	Reopen mine
Vista Gold	Mt Todd	Katherine	Gold	Reopen mine
Western Desert Res	Roper Bar	Roper River	Iron Ore	New mine
Xstrata	McArthur River	Gulf	Zn, Pb & Ag	Expansion

### 3. 未来 12-36 月将可能开发的项目

公司名称	矿区名称	项目区地点	主要矿产品	开发阶段
Arafura Resources	Nolans	Arunta	REO, P, U	New mine
Crocodile Gold	Cosmo Deeps	Pine Creek	Gold	Underground
Energy Metals	Bigryli	Ngalia Basin	U, V	New mine
ERA Ltd	Ranger 3 Deeps	Jabiru	Uranium	Underground
Korab	Geolsec	Batchelor	Phosphate	New mine
Minemakers	Wonarah	Tennant	Phosphate	New mine
Newmont	Callie Deeps	Tanami	Gold	Expansion
Redbank Copper	Redbank	Gulf	Copper	New pits & plant
Sherwin Iron	Roper River	Roper River	Iron ore	New mine
TNG Limited	Mt Peake	Alice Springs	V, Ti, Fe	New mine
Westgold Res	Rover	Tennant	Gold, Cu	New mine

未来 12 月将可能开发的项目

项目区名称	<b>SPINIFEX BORE</b>
公司	Australian Abrasive Minerals Pty Ltd
联系方式	Robert Brand – Director & Project Manager Phone: (08) 9315 2177 Email: <a href="mailto:robert@aaminerals.com.au">robert@aaminerals.com.au</a>
地理位置	Approx 170 kms north east of Alice Springs
简介	New open cut mine strip mining. Onsite processing wet screening plant to produce concentrate and dry magnetic & electrostatic separation. Final product trucked to Alice Springs for road/rail to Darwin or Adelaide.
矿产品	Garnet sands
资源量	800,000 tonnes
矿山寿命	25 years
政府审批	Environmental – August 2011 Mining – pending
工程进度	Site preparation – Q2 2012 Production – Q3/4 2012
职工人数	Construction – NA Production – 16-20
建设资本投入	Unknown

项目区名称	<b>SILL 80 (ROPER HEAVY MINERALS)</b>
公司	Australian Ilmenite Resources Pty Ltd
联系方式	Geoff Fanning – Director Phone: (08) 8941 3213 Email: <a href="mailto:geofffanning@ilmenite.com.au">geofffanning@ilmenite.com.au</a>
地理位置	Approx 450 kms southeast of Darwin & 105 kms east of Matarranka
简介	New open cut strip mining of top 1-3 m from surface. Onsite processing through wet gravity separation plant. Ilmenite concentrate is dried, packed in Bulka Bags and trucked to Darwin for export. Initial production 100,000 tpa in 2012 and ramping up to 300,000 tpa in 2013.
矿产品	Magnetite, Ti, V
资源量	4.5 Mt +
矿山寿命	20 years +
政府审批	Environmental – In process Mining – pending enviro approvals
工程进度	Bulk sampling – Q1/2 2012 Production – Q3/4 2012
职工人数	Construction – unknown Production – 5 to 10
建设资本投入	Approx \$5M

项目区名称	<b>WARREGO TAILINGS PROJECT</b>
公司	Aard Metals Limited
联系方式	Myles Fang – Executive Director Phone: (02) 9235 3188 Email: <a href="mailto:myles@aard.com.au">myles@aard.com.au</a>
地理位置	48 kms west of Tennant Creek
简介	Reprocessing of old tailings dams to extract magnetite (gravity and magnetic separation) and gold (CIP process).
矿产品	Gold & Magnetite
资源量	9.11Mt of tailings containing 30-55% magnetite (2.91Mt @ 67% Fe - JORC compliant), 119,000 oz gold and 16,500 tonnes copper.
矿山寿命	Approx 5 years
政府审批	Environmental – Nov 2011 Mining – pending Development subject to finance.
工程进度	Construction – Q3 2012 Production – 2012/13
职工人数	Construction – unknown Production – approx 50
建设资本投入	Approx \$20M

<b>项目区名称</b>	<b>TANAMI CENTRAL</b>
公司	Tanami Gold
联系方式	Peter Whincup – Projects Manager Phone: (08) 9212 5999 Email: <a href="mailto:peter.whincup@tanami.com.au">peter.whincup@tanami.com.au</a>
地理位置	Approx 650 kms northwest of Alice Springs
简介	Reopen old Tanami and Groundrush mines. Open cut mining operations to extract remnant ore reserves and underground development of newly defined ore reserves. On site processing through 1.2Mtpa plant at Tanami mine. Possible initial trucking of high grade ore to Coyote for processing.
矿产品	Gold
资源量	21.3Mt @ 3.0 g/t Au
矿山寿命	10 yrs +
政府审批	Environmental – Nov 2011 Mining - pending
工程进度	Construction – 2012 Production – 2012/13
职工人数	Construction – unknown Production – unknown
建设资本投入	Unknown

<b>项目区名称</b>	<b>MOLYHIL</b>
公司	Thor Mining PLC
联系方式	Mick Billing – Chairman Phone: (08) 7324 1935 Email: <a href="mailto:corporate@thormining.com">corporate@thormining.com</a>
地理位置	220 kms northeast of Alice Springs
简介	Proposed open pit and underground mining operation with onsite processing by magnetic separation and flotation to produce W and Mo concentrate.
矿产品	Tungsten and Molybdenum concentrates
资源量	3.73Mt at 0.51% combined WO <sub>3</sub> and MoS <sub>2</sub>
矿山寿命	Initially 5 year
政府审批	Environmental – Nov 2011 Mining – pending
工程进度	Construction – mid 2012 Production – 2012/13
职工人数	Construction – 100 Production – 70
建设资本投入	\$71M (in 2007) Costs being reassessed.

<b>项目区名称</b>	<b>MT TODD</b>
公司	Vista Gold Australia Pty Ltd
联系方式	Ray Iacono – Project Development Manager Phone: (02) 9327 4600 Email: <a href="mailto:riacono@vistagoldaustralia.com.au">riacono@vistagoldaustralia.com.au</a>
地理位置	250 kms south of Darwin and 55 kms north of Katherine
简介	Reopen the Mt Todd Gold Mine. Conventional open pit mining extracting up to 10.65 million tonnes per annum of ore for on site processing through newly constructed CIL Plant. Using existing facilities and new power plant.
矿产品	Gold dore (250,000 ozs pa)
资源量	5.98 million ozs of measured and indicated mineral resources and 2.61 million ozs of inferred mineral resources
矿山寿命	15 years
政府审批	Environmental – in progress Mining – pending enviro assessment
工程进度	Construction – Aug 2012 Production - 2013
职工人数	Construction – 400 Operations – 300
建设资本投入	TBA



项目区名称	<b>ROPER BAR IRON ORE</b>
公司	Western Desert Resources
联系方式	Norm Gardner – Managing Director Phone: (08) 8388 3012 Email: <a href="mailto:norm@westerndesertresources.com.au">norm@westerndesertresources.com.au</a>
地理位置	Approx 540 kms SE of Darwin, 350 kms ESE of Katherine and 40 kms from the Gulf of Carpentaria.
简介	Open cut mining of ore with on-site beneficiation. Ore will be transported via an iron ore concentrate slurry pipeline to a load out facility for export vessels in the Gulf of Carpentaria. Production ramping up to 10Mtpa.
矿产品	Iron Ore (Hematite)
资源量	311Mt @ 40% Fe (includes 9.8Mt @ 58.3% Fe and 4.7Mt @ 55.6% Fe). Further resource drilling to be undertaken. Refer to website for details.
矿山寿命	40 years +
政府审批	Feasibility studies in progress. Development proposals submitted in June 2011. EIS in preparation. Mining approvals pending environmental approvals.
工程进度	Construction – 2012/13                      Production – 2013/14
职工人数	Construction – 125                      Production – 70
建设资本投入	Unknown

项目区名称	<b>McARTHUR RIVER MINE EXPANSION</b>
公司	Xstrata Zinc
联系方式	Brian Hearne – Chief Operating Officer Phone: (07) 3295 7586 Email: <a href="mailto:bhearne@xstratazinc.com.au">bhearne@xstratazinc.com.au</a>
地理位置	Approx 900 kms southeast of Darwin
简介	Proposed expansion of operations at the existing McArthur River Mine. The proposal involves increasing MRM mine production to approx 5 million tonnes per year (2.2 million in 2010) and upgrading the process plant, resulting in an increase in bulk zinc/lead concentrate volume to 800,000 tonnes per year (384,000 in 2010).
矿产品	Zinc/lead concentrate.
资源量	115 Mt
矿山寿命	Extend life of mine by 6 years to 2033.
政府审批	Development proposals (NOI) submitted in March 2011 Environmental – pending                      Mining – subject to enviro approval
工程进度	Construction – 2012/13                      Production - TBA
职工人数	Construction – 400                      Production – 735 (295 increase from current)
建设资本投入	Indicative \$270M

未来 12 - 36 个月将可能开发的项目

项目区名称	<b>NOLANS</b>
公司	Arafura Resources Limited
联系方式	Neil Graham – General Manager Operations & Technology Phone: (08) 6210 7666 Email: <a href="mailto:arafura@arafuraresources.com.au">arafura@arafuraresources.com.au</a>
地理位置	135 kms northwest of Alice Springs
简介	New mine. Open cut mining with road and rail transport to substantial chemical processing plant at Whyalla in SA.
矿产品	Rare earths & phosphate (minor uranium)
资源量	30.3 Mt containing 2.8% REO 12.9% P2O5 (0.44 lb/t U <sub>3</sub> O <sub>8</sub> )
矿山寿命	20 years +
政府审批	Environmental – EIS in preparation. Mining – subject to environmental
工程进度	Full feasibility in progress. EIS in preparation. Construction in 2013 with production in 2013/14.
职工人数	Unknown
建设资本投入	Estimated \$70M (mine)

项目区名称	<b>COSMO DEEPS</b>
公司	Crocodile Gold Australia Pty Ltd
联系方式	David Keogh – Chief Operating Officer Phone: (08) 8943 6400 Email: <a href="mailto:dkeogh@grocgold.com">dkeogh@grocgold.com</a>
地理位置	140 kms SSE of Darwin and 50 kms NW of Pine Creek.
简介	Reopen the Cosmo Howley mine. Proposed underground mining. Ore could be transported to Union Reef plant for processing or new processing plant established onsite. Commenced exploration decline in June 2010.
矿产品	Gold
资源量	8.74Mt @ 4.55 g/t gold
矿山寿命	Approx 10 years
政府审批	Development proposal yet to be submitted
工程进度	Construction – 2012 Production – 2012/13
职工人数	Construction – unknown Production – unknown
建设资本投入	Approx \$20M

项目区名称	<b>BIGRLYI</b>
公司	Energy Metals Limited
联系方式	Lindsay Dudfield – Director Phone: (08) 9322 6904 Email: <a href="mailto:lindsay@energymetals.net">lindsay@energymetals.net</a>
地理位置	Approx 340 kms NW of Alice Springs
简介	Potential open cut mine with on-site processing plant. Updated Scoping Study and environmental studies in progress. Recent bid by China Uranium Development Company to acquire up to 70% of shares in Energy Metals.
矿产品	Uranium
资源量	7.65 Mt @ 0.14% U3O8 Total 23.4 M lbs U <sub>3</sub> O <sub>8</sub> & 43.7 M lbs V <sub>2</sub> O <sub>5</sub>
矿山寿命	Initial Scoping Study based on 12 years
政府审批	Updated Scoping Study and environmental studies in progress. Development proposals yet to be submitted.
工程进度	Construction – unknown Production – unknown
职工人数	Construction – unknown Production – unknown
建设资本投入	Unknown.

<b>项目区名称</b>	<b>RANGER 3 DEEPS</b>
公司	Energy Resources of Australia Ltd (ERA)
联系方式	Rob Atkinson – Chief Executive Phone: (08) 89243500 Email: <a href="mailto:newprojects@era.riotinto.com">newprojects@era.riotinto.com</a>
地理位置	Approx 250 kms east of Darwin
简介	Possible underground mining operation below Ranger 3 pit. Construction of exploration decline for further drilling of mineralisation to define JORC Mineral Resource.
矿产品	Uranium (U <sub>3</sub> O <sub>8</sub> )
资源量	15-20Mt containing 30-40,000 t uranium oxide (non JORC)
矿山寿命	Undefined
政府审批	Development proposals yet to be submitted. Proceeding with exploration decline for underground definition drilling of orebody.
工程进度	Construction – unknown                      Production – unknown
职工人数	Construction – unknown                      Production – unknown
建设资本投入	Unknown

<b>项目区名称</b>	<b>GEOLSEC</b>
公司	Korab Resources Limited
联系方式	Andrej Karpinski – Executive Chairman Phone: (08) 9474 6166 Email: <a href="mailto:akk@korabresources.com.au">akk@korabresources.com.au</a>
地理位置	Approx 70 kms south of Darwin and 2 kms west of Batchelor
简介	Proposed open cut mining of surface or near surface deposit. Processed on site and trucked to Darwin for export.
矿产品	Phosphate
资源量	No quoted resource estimate
矿山寿命	undefined
政府审批	Development proposals yet to be submitted. Resource drilling and feasibility studies in progress.
工程进度	Construction – unknown                      Production – unknown
职工人数	Construction – unknown                      Production – unknown
建设资本投入	Approx \$300,000

<b>项目区名称</b>	<b>WONARAH/ARRUWURRA (STAGE 1)</b>
公司	Minemakers Limited
联系方式	Neville Bergin – General Manager Projects Development Phone: (08) 9264 7000 Email: <a href="mailto:nevilleb@minemakers.com.au">nevilleb@minemakers.com.au</a>
地理位置	250 kms east of Tennant Creek
简介	Stage 1 Development Proposal - Proposed open cut mining with onsite beneficiation for direct shipping of ore. Up to 3Mtpa ore transported to Tennant Creek and then railed to Darwin for export.
矿产品	Phosphate
资源量	Wonarah – 330 Mt @ 18.9% P <sub>2</sub> O <sub>5</sub> Arruwurra – 131 Mt @ 18.6% P <sub>2</sub> O <sub>5</sub>
矿山寿命	>30 years
政府审批	Environmental – April 2010    Mining – Pending “Go Ahead” Decision
工程进度	Construction – unknown                      Production – unknown
职工人数	Construction – 50 to 100                      Production – 120 (plus 140 for transport)
建设资本投入	Estimated \$107M

<b>项目区名称</b>	<b>CALLIE DEEPS</b>
公司	Newmont Australia
联系方式	Greg Allan – A/General Manager Operations Phone: (08) 8957 8200 Email: <a href="mailto:greg.allan@newmont.com.au">greg.allan@newmont.com.au</a>
地理位置	540 kms NW of Alice Springs
简介	Expansion of existing mine. Possible expansion of existing underground operations to depth with installation of new processing plant and mine camp and infrastructure at Callie (40 kms west of the Granites).
矿产品	Gold
资源量	12.77Mt @ 6.02 g/t Au
矿山寿命	Up to 15 years
政府审批	Initial studies and Prefeasibility studies undertaken. Feasibility studies in progress. Development decision yet to be made.
工程进度	Unknown
职工人数	Unknown
建设资本投入	Estimated \$500M +

<b>项目区名称</b>	<b>REDBANK (OXIDE PROJECT)</b>
公司	Redbank Mines Limited
联系方式	Martin Depisch – Director Phone: (08) 6389 6400 Email: <a href="mailto:martin.depisch@redbankcopper.com.au">martin.depisch@redbankcopper.com.au</a>
地理位置	Approx 900 kms southeast of Darwin in Gulf of Carpentaria
简介	Expansion of existing oxide operations. Establish 3 new open cut pits. Truck oxide ore to existing Sandy Flat mine site for processing. Ore treated by Heap Leach method and copper extracted through expansion of existing ion exchange/cementation circuit. Current focus on expanding resources.
矿产品	Copper
资源量	6.28Mt @1.53% Cu
矿山寿命	5 years +
政府审批	Environmental (NT) – April 2010 Mining – pending “go ahead” decision Environmental (Commonwealth) – May 2011
工程进度	Construction – unknown Production – unknown
职工人数	Construction – unknown Production – unknown
建设资本投入	Unknown

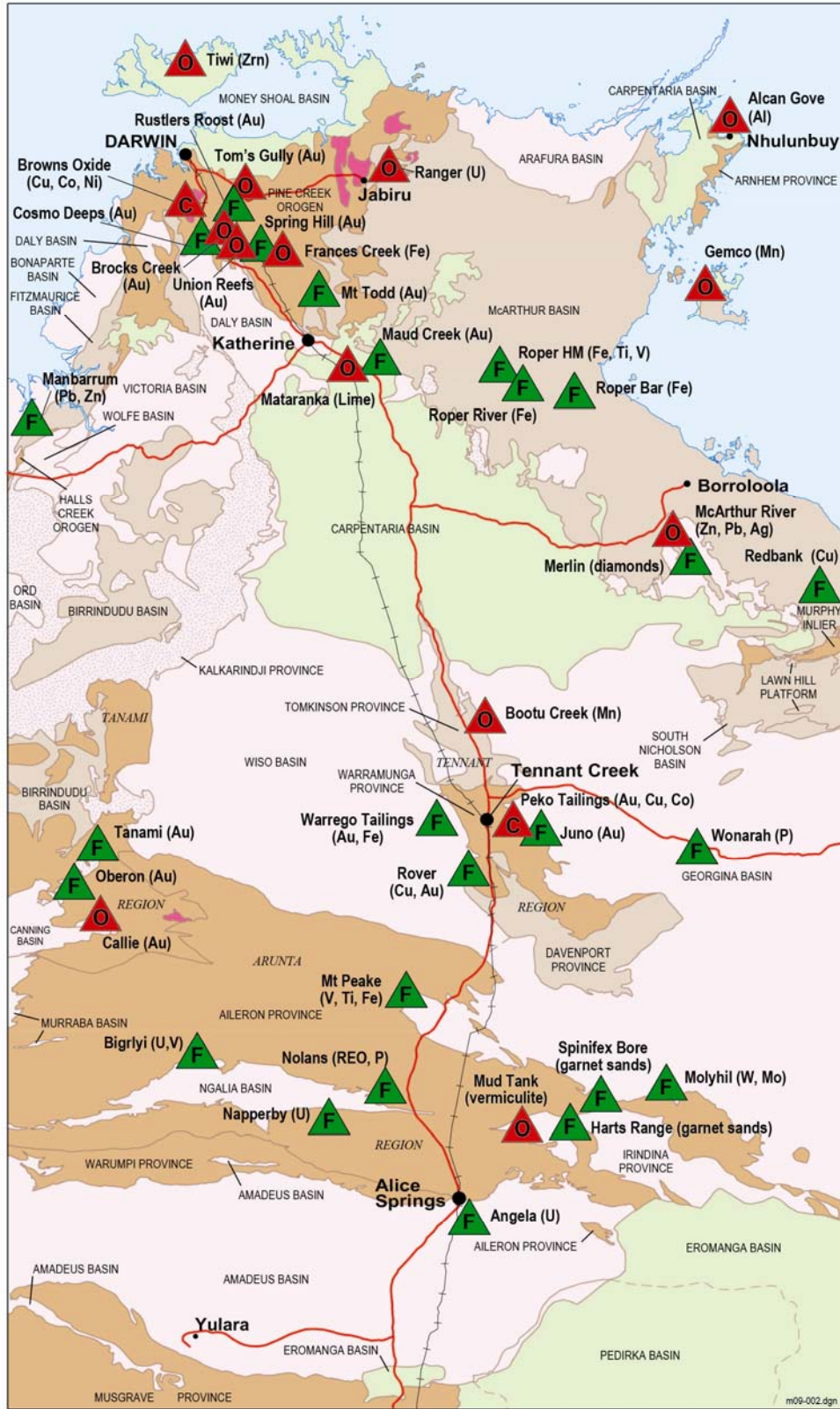
<b>项目区名称</b>	<b>ROPER RIVER IRON ORE PROJECT</b>
公司	Sherwin Iron Limited (formerly Batavia Mining Limited)
联系方式	Rodney Illingsworth – Managing Director Phone: (08) 8941 3844 Email: <a href="mailto:corporate@sherwiniron.com.au">corporate@sherwiniron.com.au</a>
地理位置	475 kms southeast of Darwin and 120 kms east of Mataranka
简介	Development of new iron ore mine and new iron ore province. Open cut and surface strip mining. Direct Shipping Ore and beneficiated ore to be trucked to the north south rail and exported through Darwin Port (approx 3Mtpa).
矿产品	Iron ore (Hematite)
资源量	JORC resource of 107Mt @ 47% Fe (Jan 2011). Further drilling in progress. Old BHP (non-JORC) estimates of 400Mt @ 40-64% Fe
矿山寿命	Estimate 20 + years
政府审批	Feasibility Studies in progress. Notice of Intent submitted in September 2011. EIS in preparation. Mining approvals pending environmental assessment.
工程进度	Construction – TBA Production – TBA
职工人数	Construction – unknown Production – 200
建设资本投入	Unknown



<b>项目区名称</b>	<b>MOUNT PEAKE</b>
公司	TNG Limited
联系方式	Paul Burton – Managing Director Phone: (08) 9327 0900 Email: <a href="mailto:peb@tngltd.com.au">peb@tngltd.com.au</a>
地理位置	235 kms north of Alice Springs
简介	Scoping Study undertaken and Pre-feasibility Study undertaken with positive interim results. Final PFS report due Q1 2012. New hydrometallurgical extraction process developed. Pilot plant construction in late January 2012 with metallurgical results by end Q2 2012. Definitive Feasibility Study (DFS) expected to commence in Q1 2012.
矿产品	Vanadium Titanium & Iron
资源量	160Mt @ 0.3% V <sub>2</sub> O <sub>5</sub> , 5% TiO <sub>2</sub> , 23% Fe
矿山寿命	Approx 20 years
政府审批	Development proposals yet to be submitted.
工程进度	Construction – unknown Production -unknown
职工人数	unknown
建设资本投入	\$370M (Stage 1) from PFS

<b>项目区名称</b>	<b>ROVER PROJECT</b>
公司	Westgold Resources
联系方式	Scott Huffadine – Managing Director Phone: (08) 9326 5700 Email: <a href="mailto:shuffadine@westgold.com.au">shuffadine@westgold.com.au</a>
地理位置	Approx 1100 kms S of Darwin and 80 kms SW of Tennant Creek
简介	Development of new underground mine and possible new mineral field. Further drilling being undertaken and various feasibility studies in progress. Development proposals yet to be submitted.
矿产品	Gold and Copper (IOCG)
资源量	5.3Mt @ 6.1 g/t AuEq (Maiden resource announced)
矿山寿命	Undetermined
政府审批	Further drilling being undertaken. Feasibility studies in progress. Development proposals yet to be submitted
工程进度	Unknown
职工人数	Unknown
建设资本投入	Unknown

## MINERAL PROJECTS OF THE NORTHERN TERRITORY



Produced by the Northern Territory Geological Survey, September 2011. 0 100 200 km

