

CAPABILITY STATEMENT FOR TERRA SEARCH PTY LTD 2018

OVER THREE DECADES IN THE BUSINESS OF PROVIDING PROFESSIONAL, INDEPENDENT, MULTI-CLIENT, GEOLOGICAL CONSULTING AND MINERAL EXPLORATION SERVICES.

Terra Search is a fully independent, privately-owned mineral exploration services company which has been operating throughout Australasia since 1987. Since that time, Terra Search has managed multi-million dollar exploration and data management projects across wide areas of Queensland, Western Australia, New South Wales, the Northern Territory, Victoria, South Australia and Papua New Guinea. Terra Search has also supplied geologists and field crews internationally in the SW Pacific, SE Asia and Africa. Terra Search's client base covers the full spectrum of the Australian minerals industry from major mining houses to junior explorers as well as Government Mineral and Natural Resource Departments as well as international clients.

Terra Search's annual turnover has been in the range of A\$2.5 million to A\$6 million every year since its inception. Turnover in the past 4 years has been over A\$5 million. Our professional and managerial staff of geologists, field technicians, and GIS operators has ranged from 40 to 65.

We have the working capital, long term network of contacts across the industry, proven track record and financial clout to manage large scale exploration programs. In short Terra Search is a one stop exploration shop.

PROVEN PEOPLE, GEAR & EQUIPMENT CAPABILITY TO OPERATE IN REMOTE NORTHERN AUSTRALIA.

Our ability to support an exploration program in Northern Australia is second to none. We have a fleet of over 23 Toyota 4X4 Landcruiser Traybacks, Station Wagons and several Twin Cabs, fully equipped with remote area, off road capability including mobile communications (satellite phones, UHF radio, and satellite spot trackers), winches, long range fuel tanks, water tanks, recovery kits. We have the full range of camping equipment, trailers, caravans, drill program and surface sampling equipment, DGPS surveying, and state-of-the-art Gemsys magnetometers, radiometric and portable XRF surveying equipment. In addition, our office facilities and staff in Townsville are continuously involved in safety monitoring, report production, GIS manipulation, geological interpretation and analysis and data compilation map making. Office facilities, shed and storage capacity are available for clients in our Office/Sheds in Townsville, Perth and Charters Towers.

HIGHLIGHTS TERRA SEARCH'S TECHNICAL EXPERTISE

Highlights of Terra Search's technical expertise that will be of direct benefit to mineral exploration projects under our management include:

- 27 years' experience as an independent company running turn-key style exploration programs on time and on budget. During this time turnover has exceeded A\$68 million. Terra Search has offices in Townsville, Perth with field depots in Charters Towers and Bathurst.
- Specialist technical expertise in geochemistry, exploration methodology, regional geology, petrology, exploration data management.

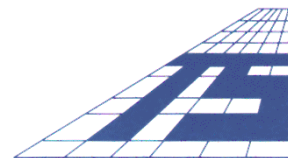
Townsville

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- Our staff has been involved in the direct implementation of in excess of A\$130 million worth of cumulative exploration expenditure across Australia and internationally over the past two decades.
- Operating in all terrains throughout Australia with specialist ability in undertaking field programs in remote areas of Northern Australia.
- Proven geological technical ability with track record of discoveries and exploration thoroughness. Discoveries include Reward (massive sulphide pipe: Mt Windsor Volcanics, NQ); Grevillea (shale hosted Zn-Pb-Ag: Mt Isa Block); Mt Dalrymple/Gettysberg (gold breccia/vein: Northern Drummond Basin, NQ); Mt Mackenzie Extensions (acid sulphate gold: Connors Arch, Eastern Qld).
- Unique tropical Australia mineral province experience where Terra Search principals and staff have been operating for over 22 years.
- Terra Search is well placed to provide management of phosphate exploration programs, as we have been involved over the past 10 years or so with Incitec/Pivot – WMC Fertilizers at Phosphate Hill and in the past three years with phosphate exploration/resource definition projects for Krucible Metals and Superior Resources in the Georgina Basin, adjacent to the Mt Isa block, as well recent phosphate evaluations and drill testing for Nupower Resources in the Lucy Creek area, via Jervois Station, NT.
- In North East Queensland our efforts have significantly contributed to the development of the mineral industry in the region: through the Reward discovery, managing of exploration programs in the Mt Leyshon, Charters Towers town, Ravenswood, Mt Windsor belt, and Rishton Mine Corridor. Moreover our geological understanding of the region is well recognized by our peers through reference to publications, maps, reports, excursion guides written by Terra Search principals on the North East Queensland Mineral Province. In North West Queensland, we have experience across many of the major exploration projects, operating mines and geological provinces, providing staff, geological consulting, equipment and field technical support.

Terra Search's data management capability is leading edge and nationally recognized. Some examples of our experience are:

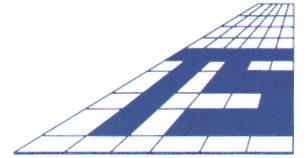
- The completion of AMIRA projects (Australian Mineral Industries Research Association) "The Optimisation of the Open File Resource - Mt Isa Block P413 and Eastern Queensland P413A" and major updates. Sponsored by 20 major mining and exploration companies and the Queensland Dept of Natural Resources and Mines. We have also been heavily involved in compilation in other Queensland Mineral Provinces: Drummond Basin, Ravenswood Block, and Georgetown Block.
- Release of the Explorer 3 mineral exploration data management system after extensive research and development. Explorer 3 is acknowledged by major mining houses and the Queensland, NSW, Northern Territory and Victorian Geological Surveys, AGSO and Geological Survey of PNG as at the forefront of capture, storage and manipulation of exploration data.
- Winning of several competitive tenders and co-operative projects to compile mineral province scale open file data sets across eastern and northern Australia and PNG, leading to a fully attributed exploration data set currently standing at 5.5 million samples. Much of these data are now released to the general exploration community through the WA, NSW, Victoria, Queensland, South Australian, NT State governments and the PNG government.
- Successful tendering for World Bank funded GIS project for industry strengthening of Department of Mining PNG. Compilation of fully attributed digital exploration data set which has led to significant increase in exploration across the country.
- Terra Search has considerable internal resources in the areas of data management, drafting, CAD, report production and image processing.

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Terra Search also has access to and capability to manage specialised services not provided in-house, advanced geophysics, petrology, geochemical analysis, remote sensing, and isotopic analysis. General drilling including diamond and deep percussion is managed through outside drill contractors.

MAJOR PROJECT MANAGEMENT AND SUPPORT

Some of our larger management experiences and major projects that we have supported include:

Phonesack/KSO Mining, PDR Lao

Near Mine Exploration Program , KSO Mine, PDR Laos
(2016-2018)

Winning of international tender to design , implement, interpret gold exploration program at KSO Mine, PDR Laos. Major exploration program developed and implemented surrounding the KSO Mine area in jungle covered, mountainous terrain. Assembling of experienced team of expat geologists with in-country knowledge ,plus team of local geologists and geotechnical support. Grass roots exploration involving stream sediment, panned concentrate, ridge and spur and grid soils, rock chip sampling. Aeromagnetic and aeroradiometric interpretation, development of geological targets for trench and drill testing. Competent Person reporting.

Regional exploration assessment and development of exploration procedures.

Referee: Wilmar Ladia, Deputy Exploration Manager, Khamkeut Saen Oudon Gold Mine (KSO), Phonesackgroup, Lao-PDR

World Bank Project Exploration Data Base and Compilation, PNG

2002–2006, 2013-2014.

In 2002 Terra Search successfully bid for a World Bank project in Papua New Guinea as part of the 3-year 1st Mining Sector Institutional Strengthening Technical Assistance Program (MSISTAP). Terra Search has been further successful in the 1-year 2nd MSISTAP. The objective is the development and installation of a Digital Geological Information system for the Department of Mining. The project has included the installation of software developed by Terra Search and the integration with other software packages, and the training of PNG staff in the use of the system. A major component of the system is to put together digital data sets for the country, particularly of existing geochemistry from the Open File data resource lodged with the Department of Mining by explorers. Terra Search has also put together GIS layers such as drainage and catalogued other existing layers such as geology. The project employs a team of PNG nationals, as well as management staff from Australia, with all the work being undertaken in PNG.

All data compiled and validated during this project will be made available globally to exploration companies through the MRA.

Referee: Dr Graeme Hancock, World Bank Coordinator

REAL (AUST) Holdings

Old Coralie, Cudgee Creek, Mount Isa District, Northwest Queensland

Cu-Au

2011 - 2017

Total exploration program management and provision in Northwest Queensland including successful applications to the Queensland DNRM for restricted area release tenements and Collaborative Drilling

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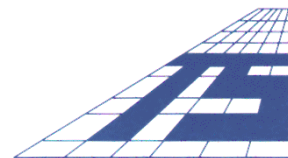
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Initiative grant; IOCG target generation incorporating ground magnetometry and gravity surveying, enhancement of magnetometry and gravity target anomalies, and deep drilling through artesian aquifer in Proterozoic Basement. Discovery of major Oil Shale field. Successfully drilled through artesian aquifer and into previously unknown crystalline basement. Competent Person reporting.

The programs are fully staffed by experienced Terra Search geologists and field technicians supported by administrative, IT and GIS expertise in the Townsville office. All camp requirements, vehicles and remote communication requirements are part of the Terra Search package.

Reference; Mr. Wayne Wang, CEO; Lynn Hu, Australian Representative.

Sunrise Bauxite

Bauxite, Cape York Peninsula, Far North Queensland

2013-2016

Desktop evaluation of the companies significant tenement holdings across western Cape York Peninsula incorporating review and compilation of historic exploration data, target generation and bauxite evaluation.

Reference; Cameron Switzer, Exploration Manager

Queensland Department of Natural Resources and Mines

2013-2017

Terra Search and Klondike Exploration Services are undertaking a comprehensive study of the geology and metallogeny of gold-bearing magmatic hydrothermal systems incorporating a new metallogenic database and exploration model of the Charters Towers Region; and revision and update of the Charters Towers District. This study is part of a North Queensland research initiative in collaboration with local Industry, EGRU (James Cook University) and the Geological Survey of Queensland, and funded through Future Resources Program.

Reference; Vladimir Lisitsin, Geological Survey Project Leader

Whitehaven Coal

Coal, Southeast Queensland, and Central New South Wales

2010 – 2014

Terra Search has been contracted to undertake ground magnetic surveys systematically across mining leases as the company develops new coal resources. The ground magnetic surveying has proven highly successful as a means of detecting dyke intrusions and other structures that disrupt the coal measures. Total surveying to date approaches a total of 3000 line km.

Reference: Mark Dawson, Chief Geologist

Strategic Metals Ltd

Cu-Au, Woolgar, Georgetown Block, North Queensland

2011 – 2017

Terra Search has completed comprehensive high resolution ground magnetic surveys at Strategic Metals Woolgar Project and provided consistent support to exploration efforts including contract exploration geologists and camp cooks annually.

Reference; Alistair Grahame, Exploration Manager

Tellus

Salt, Charlotte, Central Australia

2010 - 2016

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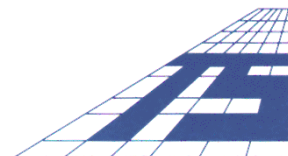
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Tellus has a range of holdings in Central Australia. Terra Search has provided support through tenement management and reporting, and supply of exploration geologists and geotechnicians to support programs over the last few years. In 2013 to 2014 Terra Search personnel ran a diamond drilling program on the edge of the Simpson Desert SE of Alice Springs. The target was a large salt dome which is planned to become a salt vault.

Reference: Duncan van der Merwe, Group Managing Director; Jamie Livesey, Senior Geologist

Evolution

Epithermal Au, Pajingo, Cracow, Drummond Basin,
2011 - 2018

Support of exploration in tenements surrounding the Pajingo Mine through provision of field technicians for a major multi spectral alteration study (Terra Spec). Terra Search has further undertaken comprehensive high resolution ground magnetometer surveys at Pajingo and Cracow.

Reference: Genesio Circosta and Brentan Grant, Senior Exploration Personnel

Denjim Pty Ltd

Au, Hadleigh Castle, Charters Towers District, Northeast Queensland
2013 - 2018

Denjim approached Terra Search to build a data room for the Hadleigh Castle ML and the companies surrounding tenements. This has incorporated compilation of historic Rishton records (held at Terra Search under a prior custodian arrangement), data validation, development of a reports, and GIS library. Terra Search further modelled the remaining drilled resource for Hadleigh Castle Mine as well as potential mine expansion based on the compiled data. An evaluation of exploration targets was also undertaken. Terra Search has supported Denjim in the promotion of this package of tenements to interested parties for potential sale or Joint Venture partnership.

Reference: Brett Duck, Geologist/Director Denjim Pty Ltd

Tower Holdings

Far Fanning Gold Mine- High level Gold vein system, Charters Towers District , NQld
(2012-2015)

Supervision of sampling of dumps and interpretation of results in terms of suitability for beneficiation studies , Evaluation of beneficiation by Ore Sorter including visit to Tomra in Sydney and Germany to test proof of concept. Data compilation, validation and JORC compliance, geological targeting , JORC Resource estimation. Competent Person reporting .

Referee: Anthony Aiossa/Peter Lloyd, Operations Manager

Cannindah Resources Piccadilly and Mt Canindah

Au, Mt Canindah and Piccadilly, Central and Northeast Queensland.
(2012-2018)

Geological evaluation involving comprehensive ground magnetic surveying at both projects, soil geochemical surveying and in-house analysis utilizing portable XRF, trenching, prospecting and reporting. Identification of previously unrecognized large-scale intrusive related system at Piccadilly and reevaluation of the Mt Canindah porphyry copper and gold deposit.

Reference: Tom Pickett, Non-executive Director.

DIO Mt Ruby Magnetite

Fe, Magnetite Skarn, Northeast Queensland
2013-2014

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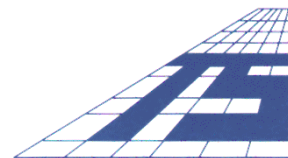
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Specialists in Mineral Exploration,
Geology and Computing



Terra Search has been involved with this project from the grass roots to resource development and mining in the last two years. In early 2013 the team undertook a ground magnetometer survey for Developed Iron Ore. Drill targets were identified and Terra Search since has been involved in drill program management, interpretation and development of a JORC-based resource.

Reference: Ashleigh Van Kruessen, CEO

Jodo Gold Brilliant Brumby

Au, Charters Towers District, North Queensland.

2012-2014

Undertook initial prospecting and targeting of the Brilliant Brumby vein mineralization system incorporating stream sediment sampling, rock chip sampling, mapping and detailed ground magnetometry. Terra Search organized native title clearance, landholder liaison, through initial reconnaissance phase to investigative drilling. Terra Search provided remote camp facilities, site preparation and rehabilitation for the RC drilling program.

Reference: Kevin Doyle, Walter Doyle, Directors

Silver City Minerals

2013 - 2016

Terra Search have provided field personnel to support IP surveys and drilling campaigns.

Reference: Chris Torrey, Managing Director

Goldview Ltd

Gold Exploration, Western Australia

2012 - 2018

Terra Search has been involved in the ongoing exploration effort at Goldview's Island Project. Goldview are a private company with 100% ownership of the mining leases in the project. Terra Search has provided geological support and has been involved in the defining of the controls on high grade mineralisation in several areas, confirmed by recent drilling. Terra Search has also been involved in the preparation of documents for capital raisings that have allowed this work to continue.

Reference: Mick Caruso – Managing Director

Fortescue Metals Group Ltd

Regional Grass Roots sampling, Western Australia

2012 - 2018

Terra Search has been undertaking regional surface geochemical sampling across the Pilbara region on FMG's non-iron ore tenement holdings. Terra Search manage all logistics, sampling and QA/QC work across the Pilbara including some of the most remote parts of the region. The project has utilised our remote exploration camps and quad bikes to ensure efficient and effective sampling quality and rates.

Referee: Scott Ferguson, Senior Geologist

Winmar Resources Ltd

Iron Ore, Western Australia

2012- 2016

Management of all exploration and technical work on their Winmar project in the Tom Price region of WA. Work included a geological reevaluation of the project prior to an extensive resource extension and upgrade drilling program which resulted in the increase of resources to 358Mt @ 56%Fe. Detailed modelling of the geology resulted in the identification of a high grade, thick zone close to the surface which has significantly improved the economics of the deposit.

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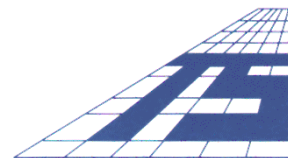
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Referee: Albert Wong - Chairman

Superior Resources Limited

Dajarra, Inca Creek, Myally, Nicholson, Victor Creek Projects, North West Queensland,
One Mile, Greenvale, North East Queensland
2006 - 2018

Terra Search has been involved in base metal and gold exploration in the Greenvale area successfully drilling massive sulphide bodies. Terra Search supplies all field personnel, vehicles, camps, provisioning and other field support in order to implement the agreed field program as directed by the Superior Resources board. Work includes ground evaluation, exploration data review, geological mapping, surface sampling, drill program supervision, logistics management and program implementation and reporting. Evaluation of base metal, phosphate and uranium properties.

Terra Search has supported Superior Resources in their evaluation of phosphate/uranium horizons in north-west Queensland. Superior has discovered and investigated, with Terra Search's support, several major newly identified EM, gravity, magnetic and geological features over several project areas in northwest Queensland.

Referee: Ken Harvey, Managing Director

Natural Resources Exploration

Base Metals/Phosphate/Gold/Uranium/Diamonds Exploration
2009 - 2013

Geological consulting on large portfolio of exploration properties across Northern Territory and Queensland. Assembly of multi-layered data sets, interpretation and analysis. Helicopter reconnaissance and evaluation. Ground surveys - magnetics, mapping, and soil surveys.

Referee: G.S, Ashok & Amit Gupta Principals

Dynasty Metals Australia Pty Ltd

Iron Ore/Uranium/Gold Exploration
2008 - 2018

Management of over 50 tenements across WA, NT and VIC. Involved in re-evaluation of the tenement portfolio and identification of Iron Ore potential in some of their Uranium tenements. This work resulted in the identification of 2 deposits, a DSO Iron deposit of Marra Mamba Formation of some 7Mt and a large low grade detrital Iron Ore deposit of 1.4Bt (at a cost of less than \$3million). Management of all aspects of the exploration process from tenement applications, to discovery, to resource definition and calculation. Currently managing the ongoing exploration, beneficiation studies and Scoping Studys for the development of this resource.

Referee: Lewis Tay, Managing Director

Tianda Pty Ltd

Iron Ore/Uranium Exploration
2008 - 2017

Management of over 18 tenements across WA, NT and SA. Involved in evaluation of tenements and grass roots exploration for uranium and iron ore. Following this recommendations for the retention of the most prospective tenements were made followed by geophysical and drilling programs.

Referee: Kevin Liu - Project Manager.

MMG Limited

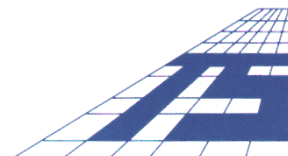
Copper-Gold-Zinc deposit, Western Australia

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2008 - 2018

Terra Search has provided technical staff to the Golden Grove mine over a long period and through several companies. Currently we are the preferred contracting groups for the mine for their geological staff as staff selection is completed by experienced field staff rather than HR professionals. Our staff have been part of the exploration effort that has extended the mine life significantly through the expansion of known mineralization and the identification of new zones.

Reference; Stefan Gawlinski – Chief Geologist

Krucible Resources, Phosphate Hill South, Toomba (Simpson Desert Project)

Phosphate Hill South, via Duchess, North West Queensland, Toomba Project north west of Bedourie, Simpson Desert.

2007 - 2016

Terra Search has supplied geological and exploration support to assist Krucible Resources with their exploration programs in western Queensland and Northern Territory. Krucible has discovered a phosphate resource south of the Phosphate Hill Mine and north east at Mistake Creek. Terra Search and All Terrain Drilling have teamed up with Krucible on both projects as well as being involved with surface sampling and drilling programs at Toomba, an isolated location in the Simpson Desert where Krucible has discovered copper mineralization hosted in Proterozoic rocks.

Reference; Bridgette Humphries, Senior Exploration Geologist

Great Western Exploration Ltd

Base Metal/Gold/Uranium Exploration

2009 - 2017

Support and assistance in management of Uranium/Gold exploration in the Pine Creek District NT and Base metal/Gold Exploration in the Doolgunna area WA. Work completed included Soil Sampling, mapping, radiometric and magnetic surveys and drilling.

Referee: Jordan Lockett Managing Director

Lithex Resources Ltd

Tin-Tantalum-Rare Earth Exploration

2011 - 2016

Management of Alluvial and hardrock tin/tantalum exploration in several tenements in the Pilbara and Gascoyne regions of WA. Evaluation of Tailings dumps and alluvial targets using auger drilling, pan concentrate and soil sampling for metallurgical testing. Identification from previous work of hardrock targets and drilling of these targets.

Referee: Malcolm Carson, Chairman

Iron Glen Pty Ltd

Iron Glen magnetite rich skarn, Townsville area, North Queensland

2008 - 2013

Geological consulting and management of exploration. Completion of ground magnetic survey, geological mapping, interpretation of the geology, geophysical data processing and modeling, identification of drill targets, supervision of reverse circulation and diamond drilling programs, methodology of logging, supply of geological staff and data management services. Delineation of resources and JORC compliant reporting.

Reference; Walter Doyle, Pat Griffiths, Directors

Arafura Resources

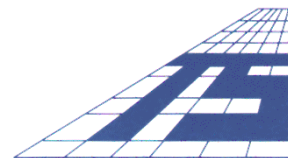
Nolans Bore, Rare Earth Project, Aileron, Northern Territory

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2011 - 2012

Supply of team of up to 4 geologists and 4 geo-technicians for supervision and support of extensive resource drilling program. Core and RC logging, structural logging, geotech logging, sampling and drill core processing. 24,000m core and 29,000m RC drilling completed in 2011 at Nolan's Bore REE resource upgrade and exploration drillout. Staff of ~40 onsite with 7 Geos, 5 drilling rigs.

Reference: Richard Brescianini, Exploration Manager, Kelvin Hussey, Senior Project Geologist

Eastern Iron

Hawkwood, Eulogie, Magnetite Iron Ore. Central Queensland

2009 - 2013

Supply of geological and drill supervisory crew to support magnetite exploration and resource drilling. Provision of JORC compliant data set, geological logging, drill core processing, geo-tech logging, magnetic susceptibility measurements, reporting. Greg De Ross, Exploration Manager, Chris Hosie Senior Project Geologist.

Ramelius Resources

Charters Towers District, North Queensland. Gold exploration.

2010 - 2017

Supply of geologists and field technicians to support gold exploration programs across a large block of tenements. Geological evaluation, prospecting, regional sampling, drilling support and geological supervision, camp support.

Reference; Eric Van Noort, Senior Exploration Geologist

Liontown Resources

Charters Towers District, North Queensland, Base Metal and Gold exploration

2007 - 2017

Supply of geologists and field technicians to support base metal and gold exploration programs across a large block of tenements from Charters Towers to Bowen, north Queensland. Geological evaluation, prospecting, regional sampling, drilling, resource evaluation, camp support.

Reference; David Richards, Exploration Director, John McIntyre, Senior Consultant.

Vale Australia

Barkly Phosphate Exploration, Northern Territory

2010

Geological consulting and management of the interpretation of the geology, the methodology of logging, supply of geological staff and data management services, geological mapping, rock chip sampling, stratigraphic correlations, coordinated geological team involved in drill rig supervision and reporting. Full compliance with Vale's rigorous safety procedures.

Reference: Peter Walker, Exploration Manager

Incitec Pivot Limited - Phosphate Hill Operations

Phosphate Hill, via Duchess, North West Queensland

Near Mine - Phosphate Exploration

1999 - 2018

Since 1999, Terra Search has supplied a geological and support team including mine specific and accredited 4 wheel drive vehicles to assist Southern Cross Fertilizers in their annual exploration drilling programs at the largest operating phosphate mine in Australia. This partnership has been very successful and mutually

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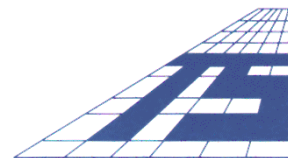
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beneficial: Terra Search has won the contract each year and worked with the various companies involved: WMC Fertilizers, BHP Billiton, Incitec/Pivot and Southern Cross Fertilizers.

Referee: Liz Bongers, Senior Mine Geologist

Nupower Resources, Lucy Creek, via Jervois Station, NT Phosphate Exploration and evaluation.

2009

Terra Search had on ground exploration management of this remote eastern NT project: supplying office technical evaluation, all field personnel, 4 wheel drive vehicles, camp, provisioning, safety monitoring and through All Terrain Drilling, drill services. Work completed by Terra Search include: an evaluation of phosphatic horizons within the Georgina Basin sedimentary sequence at the Lucy Creek deposit. A desk top study followed by geological mapping and ground evaluation. The phosphate horizons were evaluated with portable XRF analysers and in-field chemical test kits. Drill testing of the targets generated by this work was carried out in December, 2009, Cooperative drilling and geological work undertaken by Terra Search and All Terrain Drilling.

Referee: Warrick Rafferty, Managing Director

Cudeco Limited

Rocklands Copper, Cloncurry District, North West Queensland

2006 - 2009

Geological consulting and management of the interpretation of the geology, the methodology of logging, supply of geological staff and data management services. This is an exciting copper/cobalt/gold project in the Eastern Succession of the Mt Isa Block. Terra Search's involvement has been instrumental in the understanding of the ore body and the day to day management of the data for the project. Geological relations and discovery history has been presented in papers by Principal Geologist Dr Simon Beams at SGA2009 (Society for Geology Applied to Mineral deposits), Townsville, 2009 and NQEM2009, Australian Institute of Geoscientists, Townsville, 2009, Australian Earth Sciences Convention, Perth, 2008 and James Cook University Breccia Conference, Townsville, 2007.

Referee: Wayne McCrae Managing Director

Queensland Department Mines and Energy: Statewide Compilation

2006 – 2012

Compilation of exploration data from across mineral provinces of the state. 4 year project totaling \$1.8million. Initial regions are Mt Isa, Rawdon Corridor, Drummond and Hodgkinson Basin.

Referee: David Mason, Director Geological Survey Queensland. Joseph Tang, Program Manager

NT Department Mines and Energy/Geoscience Australia: Tanami and Various Other NT Mineral Provinces

1996 – 2002, 2018

Compilation of stream sediment, and drill data across the Tanami and other mineral Provinces in NT. Total 79,200 stream sediments, 53,900 soil samples and 9400 drillholes.

Referee: Director of Survey Dennis Gee, Program Manager

Circle Resources

Phosphate/Uranium Exploration

2009

Terra Search had on ground exploration management of this central Queensland project: supplying office technical evaluation, all field personnel, 4 wheel drive vehicles, camp, provisioning, safety monitoring. Work completed by Terra Search include: an evaluation of phosphatic horizons within the Drummond Basin

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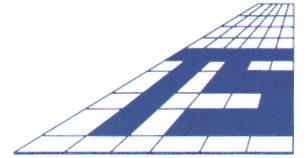
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sedimentary sequence in the Plain Creek area. A desk top study followed by geological mapping and ground evaluation. Phosphate horizons were discovered and evaluated with a helicopter supported field survey and in-field chemical test kits.

Referee: Warrick and Kevin Doyle, Director/Manager

SmartTrans Holdings Limited

Mt Mackenzie

1997 - 2007

Terra Search had on ground exploration management of this central Queensland project: supplying office technical evaluation, all field personnel, 4 wheel drive vehicles, camp, provisioning, safety monitoring. The Mt Mackenzie system was a known high sulphidation epithermal system in the Connors range region of Eastern Queensland. Terra Search managed all aspects of the exploration for Coolgardie Gold/SmartTrans. Evaluation of existing data identified large gaps in the geological knowledge of the system despite over 600 holes having been drilled in the area. The system was reinterpreted using existing data, relogging of chips and core and reevaluation of existing geophysics. The first drilling program intersected 24m @ 2.5g/t some 400m from previously known mineralisation. Further geophysics confirmed the existence of one of the largest high sulphidation systems in Eastern Australia. The budget for this project to date has been \$5 million. In 2005 and 2006 a deep drilling program led to the exciting development of significant polymetallic mineralization being encountered under cover 1 km away from outcropping mineralization. Results at the Instinct Prospect include 8m @ 5 g/t Au.

Referee: Jim Laurie, Exploration Director, SmartTrans Holdings Limited

Metals Australia NL

Manindi Zinc

2007

Exploration for base metals in the Murchison region of Western Australia. Management of diamond drilling program including exploration program planning, budgeting, reporting, personnel and contracts. The project had a total budget of \$1.2 million and delineated further reserves for the Freddie Well massive sulphide system with intercepts of up to 30m at 12% Zn.

Referee: Tim Putt Exploration Manager

Diatreme Resources Limited

Clermont, Tick Hill, Langdon River, Iron Hurst, Nymbool, Pyramid, Mt. Cannindah, Yarrol (QLD) Exploration Portfolio

2005 - 2007

Program management. Implementation of exploration programs over a broad based project portfolio throughout Queensland and northern NSW. Several commodities including gold, copper and diamonds are involved. Ground magnetometer surveys and major drilling programs have been completed. Including supervision of reverse drill circulate program totaling 10,000m

Referee: Tony Fawdon, Managing Director

Lost Sands Pty Ltd (Diatreme Resources)

Eucla Basin (SA and WA)

Exploration Portfolio

2006 - 2008

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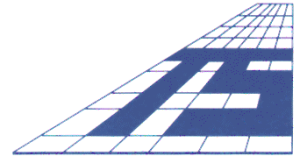
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Terra Search Pty Ltd

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Specialists in Mineral Exploration,
Geology and Computing



Geological and field logistics for mineral sands exploration. 6,000km plus of ground magnetics, 20,000m plus aircore drilling. Cyclone and Hurricane Heavy Mineral Sand deposits discovered and exploration drillout done by TS staff. This project is currently undergoing a BFS for planned mining.

Referee: Tony Fawdon, Managing Director

SmartTrans Holdings Limited

Connors Arch / Waitara

1997 - 2003

Exploration for epithermal and porphyry related gold and copper gold systems throughout the Connors Arch in central Queensland. Evaluation of the Waitara Porphyry Copper prospect for Central Queensland Resources, as JV partner for SmartTrans. Discovery of 366 Vein system. Evaluation of Waitara epithermal gold Six Mile Creek, Clive Creek and Aurora Flats for SmartTrans. Many other Prospects and tenements have been evaluated and either relinquished or Joint Ventured. Reporting to the mines department and joint venture partners was handled by Terra Search during this time.

Referee: Jim Laurie, Exploration Director, SmartTrans and Rhod Grivas, Exploration Director, Central Queensland Resources

Thalanga Copper Mines

Highway Reward / Thalanga - Charters Towers district

2002 - 2005 ongoing

Management and reporting of all exploration activity including drill programs, on TCM's tenements in Charters Towers district. Preparation of data rooms for impending sale of Highway Reward and Thalanga.

Referee: Kevin Smith, Chief Executive Officer

SMC Gold Limited

Rishton Mine Corridor Exploration - Charters Towers district

2002 - 2005

Ongoing support and consulting to SMC on their exploration strategy. Evaluation of potential within the Mine Corridor led to recommendation and implementation of ground magnetic survey. Data capture and management and eventual custodian role for SMC Resources, Rishton Mine Corridor data.

Referee: Rob Kidd, Managing Director, SMC Gold Limited

Central Queensland Resources

Ukalunda and Mt Flora areas, Drummond Basin and Central Queensland

2001 - 2002

Evaluation, management and reporting of drill program at Mt Flora and preparation of Information Memorandum on Mt Flora and Ukalunda.

Referee: Rhod Grivas, Exploration Director, Central Queensland Resources

Garimperos

2002 - 2007

Terra Search in 2002 acquired, at the request of the receivers, Garimperos Pty Ltd, a management company to oversee exploration in New South Wales and South Australia of \$1 million of funds for a trust called Base Metals Exploration. This includes the management of tenements and the evaluation of the exploration potential of several areas. A 2004 drilling program on the Anabama project in South Australia intersected significant copper mineralisation. Recent drilling at Attunga, NSW intersected copper and tungsten mineralisation.

Referee: Bill Foxall, Manager Huntley Group

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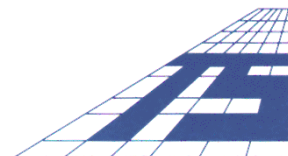
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NSW Department of Mineral Resources: Statewide Compilation

1995 – 2001

Compilation of stream sediment and drill data across the state. Total 278,000 stream sediments, and 46,200 drillholes.

Referee: Peter Lewis, Kevin Capnerhurst Program Managers

Geological Survey of Victoria: Statewide Compilation

1996 – 2002

Compilation of stream sediment, soil and drill data across the state. Total 382,208 stream sediments, 73,218 soil samples and 8296 drillholes.

Referee: Roger Buckley, Program Manager

Australian Mineral Industry Research Association (AMIRA) Projects P413 Mt Isa and P413A Eastern Queensland

1993 – 1998

Compilation of exploration data from Mt Isa and Eastern Queensland and development of Explorer 3 Relational Data Base Management System and methodology of data capture.

Referee: Roger Buckley, Program Manager. 15 to 21 sponsor companies, Project deliverables on-time and on-budget.

Referee: Research Coordinators David Tucker, Alan Goode

Coolgardie Gold

1993 - 2005 Ongoing

Exploration for gold/base metals throughout the Mt Isa Western Succession. Management of exploration programs including planning, budgeting, reporting, accounting, personnel and contracts. This has included the major Riversleigh Base metal project in Mt Isa.

The Riversleigh project had a total budget of \$4 million and resulted in the discovery of the Grevillea Zn-Pb-Ag massive sulphide system. This deposit was discovered using a combination of geology and geochemistry. Further evaluation used a wide range of geological, geochemical and geophysical techniques. The system is a large sediment hosted sulphide system with high-grade zones of Zn-Pb-Ag. The last drilling in 2002 resulted in the discovery of a major sulphidic basin. Terra Search also handled the applications for several prospective tenements in the region on behalf of Coolgardie Gold. Geological relations and discovery history has been published in AUSIMM 1990 Monograph in a paper by Principal Geologists Dr Simon Beams and David Jenkins.

Referee: Jim Laurie, Exploration Director, SmartTrans Holdings Limited

Mt Leyshon Gold Mines

Puddler Creek and Puzzler areas - Charters Towers district

1988 - 1993

Exploration, management and drill testing of gold vein and breccia systems around Mt Leyshon and in the Puzzler area. Total exploration budgets were in the order of \$1-2 million. Several new breccia and vein systems were discovered and evaluated. Data management role to compile all the existing data over Mt Leyshon's tenements. Production of major exploration status report.

Referee: Jim Morrison, Exploration Manager, Mt Leyshon

City Resources

1987 - 1989

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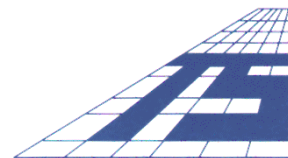
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Exploration for base metals/gold in the Charters Towers region of North Queensland. Management of exploration program including exploration program planning, budgeting, reporting, accounting, personnel and contracts. The project had a total budget of \$3 million and resulted in the discovery and delineation of the Reward massive sulphide pipe. This is a blind Cu/Au deposit discovered using a combination of RAB drilling, geochemistry, geology and geophysics. This deposit is currently was mined in the period 1995-2004. During the course of City Resources involvement Terra Search's computing and drafting team handled all data management and plotting, account allocation and contract management. All reporting requirements to joint venture partners and the Mines Department were also handled by Terra Search. Geological relations and discovery history has been presented in papers by Principal Geologist Dr Simon Beams at NQ Gold, Townsville, 1989 and International Geochemistry and Exploration Symposium IGES, Townsville, 1995. AUSIMM monograph 1990.

Referee: Jim Laurie, Denis O'Neill, Exploration Managers, CRL

Orion Resources

1988 - 1991

Exploration for gold in North Queensland. Management of exploration program including exploration program planning, budgeting, reporting, accounting, personnel and contracts. The project had a total budget of \$1 million. Several tenements in North Queensland's Charters Towers and Georgetown Provinces were evaluated. During the course of the project our in house computing and drafting team handled all data management and plotting. All reporting requirements to joint venture partners and the Mines Department was handled by Terra Search, as was all account allocation and contract management.

Referee: Dr Doug Dunnet, Exploration Director

Dalrymple Resources

1988 - 1998

Exploration for gold/base metals throughout North Queensland. Management of exploration program including exploration program planning, budgeting, reporting, accounting, personnel and contracts. This included the evaluation of over 10 separate tenements in the Drummond, Ravenswood, Mt Isa and Hodgkinson regions. The project had a total budget of \$4 million and resulted in the discovery of the Mt Dalrymple Breccia hosted gold system in the North Drummond Basin. Compiling existing data from the region and identifying areas with insufficient follow-up discovered this deposit where visible gold occurred at surface. A combination of geology and geochemistry then resulted in the intersection of a mineralised breccia system with the best intersection to date being 4m @ 18g/t. Many other areas were evaluated and either relinquished or Joint Ventured. All reporting to the mines department was handled by Terra Search during this time.

Referee: Marcus Harris, Exploration Director, Dalrymple Resources

SHORT RESUMES OF KEY PERSONNEL TERRA SEARCH PTY LTD

Dr Simon Beams, Ph.D. (La Trobe University) B.Sc (Hons) (Australian National University) - Principal Consultant Geologist (Terra Search Pty Ltd) - over 35 years of professional experience in mineral exploration for Au, base metals and uranium, and applied geochemical and petrological research. Has been involved in exploration primarily for gold and base metal targets in the Lachlan Fold Belt and North Queensland since 1980, including 5 years with Esso Minerals and Terra Search. Direct experience over two decades in the Charters Towers involved in active mineral exploration for base metals and gold including extensive work along the Mt Leyshon and Rishton Mine Corridors. For the past 24 years has been Managing Director and Principal Geologist of Terra Search Pty Ltd. Has played a key role in the discovery and evaluation of several prospects/deposits in North Queensland including Grevillea, Reward, Mt Dalrymple and Mt Mackenzie extensions. Involved with several major exploration data management projects

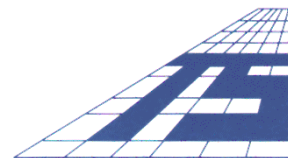
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across Australia including working closely with the Queensland Department of Natural Resources & Mines on provision of comprehensive data sets to industry users. Has produced several key publications in the areas of mineral deposit geology and geochemistry, exploration data management, regolith relations, petrology and granite genesis and regional geology of North Queensland. Has long history of involvement with Government Instrumentalities in producing regional geological maps.

Richard Lesh, B.Sc. (Hons) (Australian National University) - Principal Geologist (Terra Search Pty Ltd) - over 35 years of professional experience. Since 1976 has worked as a mine and exploration geologist primarily for gold and base metal targets in NSW, Western Australia and North Queensland. For the past 14 years has been a Director and Principal Geologist of Terra Search Pty Ltd and has played a key role in the evaluation of several prospects/deposits throughout Australia: Scuddles, Harbour Lights WA, Woolgar, Reward, Century QLD, and Temora NSW. Has extensive experience with exploration and mining software. Richard was co-leader of Lachlan Fold Belt (1995-99) exploration data research conducted for the NSW Department of Mineral Resources and the Geological Survey of Victoria as Discovery 2000 and VIMP projects respectively, Richard is currently on assignment with Rio North Parkes mine, involved in logging of drillcore from porphyry mineralized Cu-Au deposits in the Parkes district, NSW.

David Jenkins B.Sc (Australian National University) B.Sc (Hons Uni of Tasmania) - Senior Geologist and Director of Terra Search since 1992, Dave has worked at all levels of management of Iron Ore, Uranium, base metal and gold exploration programs in Queensland and WA. Dave was the driving force behind the discovery in 1993 of the Grevillea Zn Pb Ag deposit in the Lawn Hill Platform in the Mt Isa Block for Coolgardie Gold. He also discovered the Spearhole and Marra Mamba deposits in the Pilbara Region for Dynasty Metals (1.4Bt @ 23% Fe) in 2009 and has overseen their technical program since 2008. Dave has been involved in several JORC resource calculations and project evaluations and has been running an iron ore beneficiation testing program for Dynasty resources. He has acted as Exploration manager for several other groups including Tianda Resources and Lithex Resources on a contract part time role. Dave played a major role in the development and design of the Explorer 3 Database Management System, which is now a leading edge program in the exploration industry. He was Joint Project Leader (2002-2005) of the World Bank GIS project for the Papua New Guinea Department of Mining, which involved the capture of all relevant exploration data across the country. Dave has extensive advanced data processing experience for a range of geoscientific data. He programs in Visual Basic, Visual Basic for Applications and MapBasic. He is a proficient user of Explorer, Micromine, MapInfo and other exploration software. Dave is Co-Author of several papers on mineral exploration and exploration data.

Professor Richard Price, Ph.D. (Otago University), B.Sc (Hons) (Australian National University) - Internationally recognized consultant petrologist and geochemist with a distinguished career at University of Otago, La Trobe University, Melbourne and Waikato University, NZ. Highly experienced field geologist with mapping, interpretation, structure and geochemical skills.

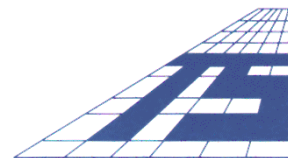
Jim Macgregor-Dawson: Dip.App.Sc (RMIT) - Jim has worked for a range of explorers and mining companies both large and small. Jim has had abundant exploration geology experience over 40 years from target generation through to resource estimation, over a range of commodities, companies and geological environments. He has worked on several copper – gold and base metal projects throughout Australia, PNG, Indonesia and USA. In the past few years, Jim has spent considerable time ranking and evaluating prospects in north Queensland and NT. This culminated in the aggregation of tenements in the Undilla –Camooweal area hosting significant Pb-Zn mineralisation over a large area with strong exploration upside. Jim has also been involved in similar geological evaluation exercises in the Cloncurry district. He has been involved many times in

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projects where he has had to come to grips with a plethora of data and pick out the key exploration targets and properties.

Tim Beams - B.Sc (Hons) Physics (James Cook University 2001) - Geophysicist - over 5 years of professional experience in geophysical data processing, interpretation, modeling, GIS, statistical analysis and computer programming for the mineral exploration industry. Extensive experience in interpretation, modeling and reporting of magnetic, gravity, multi-spectral satellite imagery data sets throughout north Queensland.

Tav Bates: BSc MSc (Geology) (James Cook University) - Project Geologist with 7 years exploration experience. He has had extensive mine exploration and production experience both at Balcooma, Chillagoe and Thalanga in north Queensland with Kagara Metals. Worked as pit geologist, underground geologist and exploration geologist. Skilled mine and exploration software user. Commodities explored for include volcanic hosted massive sulphide, orogenic gold (WA goldfields), mesothermal gold (north Qld), polymetallic skarn. :

Ashley Cody: M.Sc. (Hons) (Waikato University) - Geologist with 12 years post graduation experience and six year's exploration experience through Terra Search. He has had extensive drilling experience with a range of clients, both major mining houses (e.g. Vale,) and mid-junior explorers (e.g. Arafura, Diatreme, Cloncurry Metals, Liontown Resources). Programs he has worked on include metamorphic hosted base metals at Pegmont, NW Queensland, base metal and gold targets Charters Towers District, epithermal gold mineralization Mt Carlton area, Drummond Basin. In 2010 ,Ashley gained valuable experience working with Vale on their Barkly phosphate projects in Northern Territory, taking them through from regional exploration traversing and sampling to drill testing, other drill rig geological supervision was carried out for Tianda on uranium exploration properties north of Alice Springs, NT. Through 2011, Ashley has taken on a geological supervisory role at Arafura Resources' Nolans Bore Rare Earth project, in NT. Here, Ashley has been involved with a major drill out and resource evaluation program on an advanced project.

Scott Stephan: B.Science (Hons). University of Queensland - Scott completed an Honours degree on the geology, structure and mineralisation of the Proterozoic terrane in the Carbine Creek area, south west of Mt Isa. For the past 5 years, Scott has been engaged in exploration programs throughout north west Queensland: geological mapping, surface geochemical sampling, supervision of drilling programs, geological interpretation and reporting. Projects worked on include the Rufus Fault Zone, Elizabeth, Mundgerebar, Carbine Creek south of Dajarra, where Mt Isa style copper, stratiform Pb-Zn massive sulphides have been the prime targets. Scott has directed phosphate exploration in the Wills Creek area where some significant intercepts of phosphate have been returned. Scott has also directed a deep diamond drilling program in the Nicholson River area, where a discovery of a sulphidic basin containing semi-massive stratiform pyrite has been made. In late 2010, Scott supervised a diamond drilling program targeting prominent magnetic and gravity features north of Cloncurry for De Grey Mining, with Proterozoic targets sitting below deep Mesozoic cover. Other industry experience has been in the area of GIS and mineral exploration data research and data management. In 2011, Scott has worked on gold exploration targets for Superior Resources in the Mt Isa Block and developed drill targets and drill program supervision of RC and core drilling program testing volcanic hosted massive sulphide mineralisation in the Palaeozoic volcanic terrane of the Greenvale Province, North east Queensland.

Rebecca Murray: B.Sc. Geology & Geography (University of Birmingham, UK) - Rebecca graduated in July 2011, and moved to North Queensland to work for Terra Search in April 2012. Since commencing her employment, Rebecca has been involved with a number of projects specialising in both historical and current geochemical surface and drillhole data compilation incorporating GIS data presentation and field work for exploration company clients.

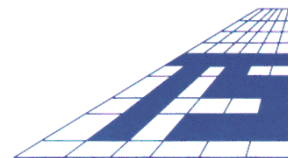
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Initially starting as a geological data compiler on a NSW government project in 2012, Rebecca has advanced to a mentoring and tutoring role in our 2014 PNG Data compilation project. She has also been involved in reconnaissance field work for a variety of clients in regional NW Queensland

David Rubenach: B.Sc. Honors in Economic Geology (James Cook University of North Queensland, Townsville)

- David's university studies included a thesis on intrusive related skarn and porphyry style base and precious metal mineralisation of the Mungana deposit, Far North Queensland. David commenced with Terra Search in January 2011. He has worked on exploration data management, geological data compilations and use of portable XRF with chip logging and assaying.

SELECTED MAJOR PUBLICATIONS ILLUSTRATING TERRA SEARCH'S TECHNICAL EXPERTISE

Beams S.D. (2009) Geology and Mineralisation of the Rocklands Copper-Cobalt-Gold Deposits, Cloncurry District, North West Queensland, Australia. Society of Geology as Applied to Mineral Deposits, SGA 2009, Townsville, July, 2009.

Jenkins, D.R., Laurie, J.P. and Beams S.D. (1998). Grevillea zinc-lead-silver deposit. In: Geology of Australia and Papua New Guinea Mineral Deposits (Eds, D.A. Berkman and D.H. Mackenzie) pp753-758. (The Australasian Institute of Mining and Metallurgy, Melbourne.)

Beams, S.D. (1995) .ed. Mineral deposits of North east Queensland: Geology and Geochemistry. EGRU Publication 52. James Cook University of North Queensland pp277.

Beams, S.D. (1998) .ed. Economic Geology of North east Queensland, the 1998 Perspective. Mineral deposits of North east Queensland: Geological Society of Australia Inc. pp248.

Beams, S.D., Laurie J.P. & O'Neill D.M. (1990) .Reward polymetallic sulphide deposit In Hughes F.E. ed. Geology of the Mineral Deposits of Australia and Papua New Guinea, pp 1539-1543. (The Australasian Institute of Mining and Metallurgy, Melbourne.)

Beams, S.D. (2009) .ed. North Queensland, Gold and Base Metals Field Trip. Excursion Guide, Selected Papers and Maps. SGA2009, EGRU. James Cook University of North Queensland, pp277.

Beams, S.D. (1998) .An overview of the influence of the regolith on mineral exploration sampling media, north east Queensland. In: Eggleton, R.A. Ed. The State of the Regolith. Geological Society of Australia Special Publication, 20, 7-22

Hutton, L.J., Beams, S.D. & Rapkins, R.J (1996) Charters Towers 100,000 Geology Map. Queensland Department of Mines and Energy.

Beams, S.D. & Jenkins, D.R., 1995. Regional exploration geochemistry and the regolith of Northeast Queensland. In: Mineral Deposits of Northeast Queensland: Geology and Geochemistry (Ed. S.D. Beams), pp.33-53. EGRU Contribution 52. James Cook University.

Beams, S.D., Laing, W.P. & O'Neill D.M., 1989. The exploration history and geology of the polymetallic Reward deposit, Mt Windsor Volcanic Belt, North Queensland: North Queensland Gold '89 Conference, Townsville, Queensland, April 1989, Proc., pp.95-102. Australasian Institute of Mining and Metallurgy.

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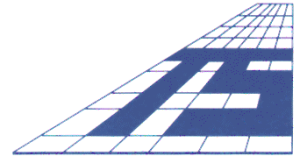
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Beams, S.D., 1998. From Granites to Mineral exploration. In: The Bruce Chappell Symposium: Granites, Island Arcs, The Mantle and Ore Deposits. Abstract Volume (Ed Wyborn, L) pp21.AGSO Record 1998/33.

Berry, R.F., Huston, D.L., Stolz, A.J., Hill, A.P., Beams, S.D., Kuronen, U. & Taube, A., 1992. Stratigraphy, structure and volcanic hosted mineralisation of the Mt Windsor Subprovince, North Queensland, Australia. Econ. Geol. V.87, 739-763.

Morrison, G.W. & Beams, S.D., 1995. Geological setting and mineralization style of ore deposits of Northeast Queensland. In Mineral Deposits of Northeast Queensland: Geology and Geochemistry (Ed. S.D. Beams), pp.1-32. EGRU Contribution 52. James Cook University.

Extended bibliography of Terra Search technical reports includes numerous selected tenement and research reports and abstracts on exploration case histories, geochemistry, mineralisation styles and exploration data management.

Further information on the expertise, equipment and facilities available may be obtained by contacting:

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