



# HEAP LEACH PILOT PLANT

Bannerman

## PROJECT STATS

<b>Value</b>	NAD 4.5 million USD 0.28 million (ROE 16.24)
<b>Location</b>	Swakopmund, Namibia
<b>Client</b>	Bannerman Mining Resources Namibia (Pty) Ltd
<b>Start</b>	04/2013
<b>Finish</b>	02/2015

## SERVICES

Project management (Principal Agent)  
Preliminary & detail designs  
Tender documents, process & evaluation  
Contract administration  
Construction supervision

Project Management

Civil

Mechanical

Electrical

BANNERMAN Mining Resources Namibia (BMR) has completed a successful Definitive Feasibility Study for the Etango Uranium project. To validate the verification process on a reduced scale as well as to optimise the design of equipment it has been decided to build and operate a heap leach pilot plant on BMR Etango Exclusive Prospecting Licence site. All ore required for the pilot plant project will be mined and primary crushed by a mining contractor before beginning the Heap Leach test activities.

The pilot plant facility comprises of a tertiary crusher (type: HPGR - high pressure grinding rolls), agglomerator, leach cribs, mobile conveyors, hoppers, belt feeder, pumping systems, solution and reagent storage/handling, prefab site office, kitchen/lunch room, laboratory and store, potable/process water-, electrical instrumentation- and compressed air infrastructures, silent pack mobile generator set, diesel storage tank including the infrastructure and relevant safety equipment.

**Civil** designs included bulk earthworks, stormwater diversion, HDPE lined evaporation ponds, epoxy coated bunded working areas and structural footings for conveyor belts.

Detailed **mechanical** designs (3D isometric layouts, PIDs etc.) for acid mixing area, binder preparation, irrigation pumps, potable water and fire suppression.

All **electrical** designs including power generation (diesel generators and low voltage electrical installations).