Economic Geology - Project Generation - Mineral Exploration - Due Diligence - Mine Assessment - Hydrogeology

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List of References as of April 2025

For references about environmental geology (b) and hydrogeology (c) please scroll further down

A) Economic Geology, Mineral Resources & Mining:

2025:

- Assessment of a quartz sand deposit near Haguenau, Alsace, France

2024:

- Geological Modelling of the Lüdersfeld gas deposit, Lower Saxony, Germany
- Geological Field Trip to the Eastern USA / New England States
- Consulting / Searching for JV Partner for a gas project in Lower Saxony, Germany
- Assessment of Lithium carbonate bearing rocks from Brazil
- Study on reuse of a large limestone landfill near Würzburg, Bavaria, Germany
- Geological Field Trip to lead / zinc and salt deposits in Upper Silesia and Krakow area, Poland

2023:

- Reconnaissance for quartz / silica deposits in various countries : Egypt, Jordan, Kenya, Sudan, Sultanate of Oman, Tanzania and Turkey
- Sampling and assessment of vermiculite / phlogopite mica quarries in Belitsa, Bulgaria
- Due Diligence of a working manganese mine near Erzincan, Eastern Anatolia, Turkey
- Remote Sensing / Exploration for sulphidic copper deposts in the Aqaba metamorphic complex, Southern Jordan

- Reconnaissance and field assessment of iron rich nickel-laterites in the Sultanate of Oman
- Consulting on methane gas / hydrocarbons license in Middle Europe
- Global desk top study and consulting on economic rose quartz deposits
- Field assessment of vermiculite deposits in central Bulgaria
- Market study on phlogopite mica potential

2021:

- Desk Top study about gypsum deposits in the Levante / Eastern Meditteranean
- Assessment of various little known cobalt deposits in Slovakia and in Egypt
- Field Assessment of various industrial mineral deposits: Pyrophyllite, Bentonite and Sericite mica in central and western Anatolia, Turkey
- Market study about current active gold mines (except small scale / artisanal) in Africa
- Market study of current active gold mines in the EU and in Turkey

2020:

- Desk Top Study on pyrophyllite deposits close to European markets
- Global study on economic nepheline syenite deposits
- Global study on short needle / low ratio wollastonite deposits
- Concluding geological research on gold mining potential in Tajikistan
- Assessment of a quartz sericite talc deposit in Southwestern Anatolia, Turkey

2019:

- Consulting on perlite and pumice deposits in Eastern Anatolia, Turkey
- Field visit and assessment of various gold deposits in central and western Tajikistan
- Field visit and assessment of the silver / polymetallic Konimansur mine in Northern Tajikistan
- Desk top study on antimony deposits and producers in Northern Vietnam
- Consulting on gold potentials in Siberia, Alaska and Central Asia
- Economic geology and mining history visit to Parys Mountain, Clogau Gold Belt and other prominent mineral deposits in Wales and Eastern England

- -- Visit and assessment of a gold deposit in the High Pamir Mountains, Tajikistan
- -- Target generation on cobalt potential in Southern Morocco and Southern / Middle Sweden
- -- Organisation of the visit of a working coke plant for an foreign delegation
- -- Target generation of diverse metals Ag, Cu, Sn, W in Zimbabwe, Chile and Morocco
- -- Desk Top study on gold investment potential in the Republic of Tajikistan
- -- Visit / Due Diligence of gold deposits in Irkutsk / Bodaibo / Baikal area, Siberia

2018:

- -- On-Site assessment of tin tungsten potentials in Central Namibia
- -- Desk Top study on gold potentials in the Republic of Ghana
- -- Assessment of multiple gold deposits in Eastern Siberia and Mongolia
- -- Desk Top study on gold potentials in Eastern Siberia, Kamchatka and Sakhalin

2017:

- -- Target generation of mining projects in the Republics of Armenia, Tajikistan and Turkmenistan
- -- Assessment of gypsum deposits and consulting on quality / whiteness improvement in Yanbu area, Western Saudi-Arabia
- -- Valuation of a ceramic clay deposit in Northern Bavaria, Germany
- -- On-site visit and assessment of various mineral deposits in Scotland
- -- Analysis of geotourism potentials coal show mines, fluorspar mines and geosites in the Mazandaran Province, Iran

2016:

- Maiden assessment of gold and copper deposits in Kayseri Kahramanmaras area, Central Anatolia, Turkey
- Procurement and detailed mineralogical description including ore microscopy of lead zinc ores in the Ruhr area / Ruhrgebiet as part of the "HTMET" research project for the German Geological Survey / BGR in Hanover.
- Economic geology field trip to the "Golden Quadrangle" in the Apuseni Mountains and the polymetallic deposits of Baia Mare area / Maramures in Romania
- Desk top study on talc potentials of 48 African countries for a major mineral filler company
- Assessment of huntite and antimony deposits in Western Anatolia, Turkey

- Assessment of a Quartz deposit in British Columbia, Canada
- Visit and Geological Investigation of Kaolin deposits in Western Germany
- Valuation of a ceramic clay deposit near Regensburg, Bavaria
- Reconnaissance of Zinc Lead Potential in the Western Harz Mountains, Northern Germany
- Planning, Organisation und Execution of a diamond exploration program in Southwestern Europe

2014:

- Short Study on current global tin and antimony supply situation for private client
- -- Assessment of a major wollastonite deposit at Aroche, Andalucia, Spain
- -- Desk Top Study on barite potentials in Turkey, Egypt, Jordan, Morocco and Greece
- -- Consulting on the economic potential for limestone deposits in the Ndola area, Copperbelt, Zambia
- -- Evaluation of copper gold deposits and smelter slags in Albania

2013:

- -- Study on REE Potential of phophogypsum dumps in Middle Europe
- -- Assessment of a giant graphite deposit in Lindi region, Southern Tanzania
- -- Due Diligence on several copper deposits in the Sultanate of Oman
- -- Exploration for kimberlites with diamond potential in Southern Spain

2012:

- Prospection and reconnaissance on hydrothermal lead zinc deposits in the Ruhr area, Germany
- Reservoir assessment of the Lüdersfeld methane deposit, Lower Saxony, Germany
- Major country wide assessment of the mining sector, mineral potential and mineral development potential of the Sultanate of Oman (metals, building materials, industrial minerals, kaolin) with 6 months of geological field work
- Reconnaissance of two potential REE Mineralisations in Eastern Germany

- Prospecting and assessment for economic scandium mineralisation in Eastern Bavaria, Saxony and the Czech Republic.
- -- Due Diligence of the Springer tungsten mine property, Nevada
- -- Appraisal of the current status of Uis and Neineis tin mines, Namibia for DRAG
- Preliminary assessment of the Mertens copper mine, Rehoboth, Namibia
- -- Field visit of Aljustrel and Neves Corvo polymetallic deposits, Portugal

2010:

- -- Exploration for an underground blasting chamber for explosion clad metal production in Belgium, France and Switzerland for Dynaplats
- Prospection and evaluation of a prospective gold copper deposit, Hungary
- -- Due Diligence / Assessment of Antimony Deposits in the Halong area, Vietnam
- Prospection of marble deposits in Central Namibia
- Study on flooding behaviour and rock stability in the Kropfmühl graphite mine, Bavaria
- Reconnaissance field visits of massive sulphide deposits in Southern Cyprus

2009:

- -- Exploration for an underground blasting chamber in Germany for Dynaplats
- -- Global study on flat ore reefs / ore horizons for a leading German mining equipment company,
- -- Evaluation of an extensive manganese shale deposit in the Northern Austrian Alps
- -- Desk Top study of the high grade REE deposit Steenkampskraal in Namaqualand, RSA
- -- Assessment of a potential REE deposit near Trujillo, Northern Peru
- -- Reconnaissance study on the use of the Kohnstein and Döhlau Gypsum mines as underground blasting chambers for Dynaplats

- -- Evaluation of potentially economic gold projects in the Czech Republic, Slovakia and Hungary,
- -- Assessment of the copper, gold and sulphuric acid potential of northern Cyprus
- -- Project Generation : Assessment of multielement Noble and Base Metal potential (gold, silver, platinum, nickel, cobalt, tungsten) in Germany and Austria
- -- Prospection for synsedimentary fluorspar mineralization in Hessen, Germany
- -- Global study on economics and target generation for tungsten, molybdenum and ferro-vanadium deposits
- Visit and geological research on various kaolin deposits and mines in Upper Palatinate, Bavaria
- -- Identification of aggregate resources in Germany and Finland, 2008 2010
- -- Experts opinion on the viability of Armenian chromite deposits
- -- Planning and management of a full scale gold exploration program in Eastern Bavaria at Gütting, Unterlangau for Deutsche Rohstoff AG

2007:

- -- Assessment / Research of the giant Pebble Porphyry Copper Project, Alaska
- -- Project Generation : Assessment of 15 European base metal deposits for further exploration work for Deutsche Rohstoff AG
- Assessment of potentially economic gold deposits in the Czech Republic, Slovakia and Hungary
- Assessment of economics of the Namibian mining company Weatherly Plc
- -- Project Generation : Assessment of various industrial mineral deposits (quartz, feldspar, garnet, soda ash) for future exploitation for Wolf & Müller
- -- Due Diligence of a north Mexican coal exploration project at Monclova

2006:

- -- Full scale exploration program and evaluation for CBM Coal Bed Methane resources in the Schaumburg coal field, Northern Germany, 2007 2010
- -- Analysis / Research of the investment potential of Pan African Mining operations for Dr. Kalliwoda Research
- -- Analysis / Due Diligence of the geological potential of Moto Goldmines, North Eastern Congo

2005:

- -- Evaluation of the mineral potential of borate and base metal deposits in Turkey
- -- Exploration for aquamarine gemstones and iron ores in the central Damaraland, Namibia,
- -- Study of market potential for Namibian marble fillers

2004:

- -- Evaluation of amethyst and quartz deposits in western Turkey
- Exploration for mineable red granite ornamental stones deposits in Germany
- Visit and stability assessment of underground kaolin mines in Eastern Bavaria and Bohemia

- -- Evaluation of travertine, gypsum and specularite iron ore pigment deposits in Central and Eastern Turkey
- Mapping and documentation of historic landslides in the vicinity of a newly developed gypsum underground mine Breitenstein near Bodenwerder, Weserbergland, 2003 - today

2001:

- -- Prospection of aggregates / crushed rock resources in northern Germany
- Geological mapping, exploration and core logging of a potential limestone aggregate deposit close to Alfeld / Lower Saxony, 2001 - 2002

2000:

- -- Market study on calcium carbonate fillers for Oppermann KG, Hedemünden
- Consulting and planning work on underground bituminous limestone mining at Eschershausen Hils, Lower Saxony for DASAG, 2000 - 2001

1999:

- -- Comprehensive study about the market potential, usages and economic geology of chalk filler deposits in northern Germany
- -- Due Diligence of a proposed remediation & backfill project of a former dolomite quarry in the Spessart area, Germany
- -- Market Study on the geology and economics of lapislazuli gemstones
- -- Evaluation of the mineral potential of Mount Malosa area and Kangankunde phosphate REE carbonatite, Malawi
- -- Economic appraisal of blue lapislazuli mineral pigments in Zambia

1998:

- -- Literature survey about the potential usage of bituminous limestones in waste disposal site construction
- -- Evaluation of the mineral potential of the DASAG concession area in the Leinebergland, resulting in the definition and delineation of a 20 Million ton high grade carbonate deposit
- -- Research and evaluation of the geothermal potential of flooded mine shafts in Northern Germany for geothermal energy usage

1997:

-- Exploration for crushed rock / aggregates resources, Southern Lower Saxony, Germany

- -- Geological consultancy on various exploration- and small mining projects (iron, copper, tourmaline) in the Solwezi area, Northern Zambia
- -- Development of a rehabilitation scheme for an underground limestone mine in Eschershausen, Lower Saxony, Northern Germany
- -- Investigation and development of sanitation proposals for an imminent landslide in a limestone quarry in the Weserbergland, Northern Germany

1994 - 1995:

- -- Evaluation of several gemstone and precious metal deposits (emeralds, peridote, gold) in and developing of an exploration concept in South Eastern Egypt
- -- Detailed mapping and examination of abandoned underground asphalt mines and evaluation of mine subsidence risks in the Holzen Asphalt mines, Hils
- -- Desk Top Study / Literature survey about natural spinel deposits for use as refractories for Refratechnik GmbH, Göttingen
- Exploration and documentation of a karst cave in Northeastern Ibiza, Baleares, Spain

1988:

- -- Detailed mapping of gold mineralisation in high metamorphic volcanosedimentary rocks on the Daheim prospect, southern Erongo foreland, Namibia
- -- Gold exploration program on gold quarz vein mineralisation on the Ondundu project, central Damaraland, Namibia

1986:

-- Resource interpretation of a major drilling program on pegmatitic tin - tantalum mineralisation at Uis tin mine, Namibia

1984 - 1985 :

- -- Detailed assessment of the geology and formation of the Helmstedt lignite basin, Lower Saxony, Germany (M.Sc. thesis)
- Detailed mapping of a part of the Coppengrave Brunkensen Hoyershausen area in the Hils with scientific research on the historic "Gute Hoffnung" lead mine / mineralisation.

1982:

-- Exploration for economic gold - quartz vein mineralisation with detailed mapping, sampling, underground mine exploration etc. in high alpine terrain, Rauris Valley, Austria

B) References Environmental Geology / Waste & Waste Site Remediation :

2024:

- Assessment of geothermal potential in the "Gut Steeg" Area, Aachen, Germany

2022:

Assessment of clayey loam for sealing artificial ponds in the Steigerwald area, Bavaria

2021:

- Risk analysis and risk assessment of a hydro-power station, threatened by underground lignite mining in the Pöls valley, Styria, Austria
- Assessment of geohazards / landslides next to an active gypsum mine at the Weser river, Northern Germany

2020:

 Risk Assessment on potentially instable limestone slopes above an active underground gypsum mine in Lower Saxony, Niedersachsen

2019:

- Comparision of variants of rock fall remediation at the Breitenstein massif, Weserbergland, Northern Germany
- Assessment and calculation of rock volumen for remediation planning at a hazardous rock escarpment near Bodenwerder, Lower Saxony

2018:

-- Consulting study on rock stability and geohazards along a county road at the Weser river between Rühle and Dölme, Lower Saxony, Germany

2017:

-- Senior consulting on an EIA of a planned coking plant near Savadkooh, Mazandaran Province, Northern Iran

2015:

- Evaluation and Potential Assessment of large historic copper slag dumps in the Manfeld Area,
 Sachsen Anhalt
- Valuation of potential landfill rehabiliation of a clay pit in Central Bavaria
- Assessment and Due Diligence of an innovative, environmentally friendly dust elimination system for open pit mines and quarries using biocementaton

2014:

- Assessment and management plan on mine waste water of the graphite mine at Kropfmühl, Bavaria

Environmental Geology / Waste & Waste Site Remediation (continued) :

2013:

Environmental consulting of construction of a dinosaur park on a former WW II - ammunition factory,
 Central Bavaria

2009:

-- Evaluation of the retention potential of a potash mine dump near Hanover, Lower Saxony for hazardous organics and heavy metals

2007:

- Exploration and Due Diligence of a CBM Methane Project in the Schaumburg Area, Lower Saxony, 2007 – 2009
- Assessment of iron ore and zinc potential from large iron smelter slag dumps in Upper Palatinate,
 Eastern Bavaria

2006:

- Historical Research on Methane emissions from coal beds in the Schaumburg Area, Lower Saxony

2005:

- 3D Immersive Photodocumentation of the "Kristallgrotte Merkers" with giant halite crystals, Merkers Potash Mine, Thuringia
- Development of a tourism marketing concept for the historic Silberberg Show Mine at Bodenmais, Bayrischer Wald, Bayaria
- Participation in a national Geological Heritage competition, with two proposed Geosites -- Silberberg Bodenmais and Wachsender Felsen Usterling – being awarded the title of "National Geosite of outstanding Beauty and Importance"

2004:

 3D Immersive Photodocumentation of various World Heritage Sites in Turkey for the National Tourism Ministry of Turkey

2003:

- Exploration and Documentation of historic underground sandstone mines in Ansbach, Bavaria

2000:

 Detailed exploration and hazard documentation of the historic underground Badewasserkanal monument in Bad Nauheim, Hessen

Environmental Geology / Waste & Waste Site Remediation (continued) :

1999:

- -- Detailed historical investigation of a II World War underground factory in Marienhagen, Hils area, 1999 - 2001
- Historical Research on fine coal dust emissions in the former Carolus Magnus colliery in Übach - Palenberg near Aachen
- Assessment and economic valuation of a landfill rehabilitation scheme of a large dolomite quarry in Hessen

1998:

- -- Consulting on possible TNT contaminated drainage systems in the Werk Tanne explosive factory area, Harz Mountains
- -- Literature survey and benefit study on the usage of bituminous limestones in waste disposal sites for DASAG / Eschershausen
- Fact-Finding and Assessment of wastewater purification potential of natural reed beds at Lake Titicaca, Peru for Kreditanstalt für Wiederaufbau / KfW
- Exploration and documentation of an underground cable and transport network on the HANOMAG factory in Hannover-Linden, Lower Saxony

1996:

- Detailed exploration of underground workings and transport channels below the LHB factory in Salzgitter, Lower Saxony, 1996 – 1997
- Exploration and environmental risk assessment of landfills at the Kurhessenkaserne, Hannoversch Münden, Lower Saxony

1994 & 1995 :

- Detailed historical research and exploration of a historic underground structure on the upper part of the Kurhessenkaserne in Hannoversch – Münden, Lower Saxony, 1995 - 1997
- Planning and conceptual design of a reed bed waste water treatment plant for Hemeln village, Lower Saxony
- -- Detailed investigation and environmental risk assessment of a former ammunition factory at Carlshütte Delligsen, Northern Germany, 1994 1995
- -- Drilling and ecological risk assessment of former sludge ponds in Salzgitter Lebenstedt

Environmental Geology / Waste & Waste Site Remediation (continued) :

1993:

- -- Major historical research of the Salzgitter mining industrial area as part of investigations of a local cancer cluster.
- -- Testing of short term and long term radon emanation/strain of local inhabitants of Salzgitter Heerte as part of the research project on local cancer clusters
- Exploration of various mine adits / underground structures near the Carlshütte Delligsen as part of a major environmental risk assessment program, 1993 - 1994
- Detailed historical research of the ammunition factory Carlshütte Delligsen, Leinebergland, Lower Saxony, 1993 - 1994
- Detailed exploration and mapping of underground transport systems below a part of the Salzgitter smelter complex in Salzgitter-Watenstedt, Lower Saxony
- Planning of a rehabiliation scheme of the hazardous waste disposal site "Flüssigschadstoffdeponie Osterwiek" in Sachsen – Anhalt
- Major historical research on hazardous waste in the southern part of the Salzgitter smelter complex as part of research on a local cancer cluster in Salzgitter – Heerte
- Critical review and assessment of previous planning work on a landfill site near Holzminden

1991 - 1992 :

- Geological / geophysical assessment of hazardous waste contaminations in the vicinity of a landfill in Halberstadt County, Sachsen – Anhalt
- Environmental risk assessment of a hazardous CKW contamination on a railway station near Bremen, Northern Germany
- Detailed historical research of contamination hazards of a liquid waste disposal site near Magdeburg, Sachsen – Anhalt
- Literature survey / desk top study on land fill sealing systems

C) References – Hydrogeology:

2021:

- Climate change risk assessment of a hydropower plant in the Pöls Valley, Styria, Austria

2018:

- -- Scoping for drinking water potentials on a farm in the Mount Etjo area, Namibia
- -- Preliminary study of metal bearing geothermal brines in Chile for the Frauenhofer Institute in Freiburg, Black Forest

2015:

- Assessment of potential spa - usage of geothermal waters in Muscat / Sultanate of Oman

2014:

- Hydrogeological Consulting on karst water aquifers in the Ndola Area, Zambia

2013:

- Hydrological assessment of tailing ponds of the Kropfmühl graphite mine, Bavaria

2012:

- Assessment of hot spring geothermal power potential in the Sultanate of Oman

2010:

- Hydrogeological assessment of the flooding behaviour of the Kropfmühl graphite mine, Bavaria

2009:

- Hydrogeological study of the Lüdersfeld methane gas field, Schaumburg Area
- Assessment of salt water flow within a potash dump and optimisation of adsorption systems near Hanover

2006:

 Concept study on exploration and commercial extraction from submarine fresh water springs in karstic aquifers along the Mediterranean coasts (Spain, Italy, Greece, Croatia) using thermographic imagery

2003:

- Hydrogeological investigation and assessment of a landslide area near Rühle, Weser

2001:

- Evaluation of rain water drainage potential in the housing area "Am Johannishof" in Stadthagen

C) Hydrogeology (continued):

2000:

-- Risk assessment and exploration of the historic "Badewasserkanal" in Bad Nauheim spa, Hessen

1999:

- -- Planning and Reconstruction of an underground fresh water plant in an historic 80 meter deep mine shaft in the Bückeberge using SRT techniques
- -- Hydrogeological Assessment of soil permeability for a new housing area in Rinteln-Steinbergen
- -- Hydrogeological calculation of a flood protection scheme in Rodenberg, Lower Saxony
- -- Assessment of the hydrogeological potential of the Obernkirchen golf course and localisation of favourable drilling targets, sucessfully drilled later.

1998:

- -- Evaluation of the fresh water potential of the former mining area of Altenau / Harz Mountains
- -- Fact Finding and Evaluation of the usage of large natural Totora reed beds at Puno / Peru as waste water ponds with KFW

1997:

- Potential assessment of geothermal mine water from historic coal mines in the Schaumburg area for EMR - Elektrizitätswerk Minden-Ravensberg, 1997 - 1998
- Hydrogeological consulting on soil drainage of precleaned waster water in Hellenthal Ramscheid,
 Eifel, Rheinland Pfalz
- Exploration and evaluation of mine drainage waters for use as communal fresh water, Stadthagen,
 Northern Germany

1996:

- -- Assessment of soil water permeabilities in ten different construction areas in Southern Lower Saxony for decentral rainwater drainage; 1996 2002
- Examination and refurbishment of the historic Reinsen water adit for fresh water production
- Risk assessment and refurbishment of the Schierborner water adit for fresh water production,
 Samtgemeinde Nienstädt

- Feasibility study for a reed bed waste water treatment scheme at Hemeln near Hannoversch Münden
- -- Analysis and reconstruction concept of a fresh water well in an former mine shaft at Obernkirchen, Lower Saxony including all necessary reconstruction work
- -- Feasibility study for renewed utilisation of water adits in the Bückeberge near Reinsen

C) Hydrogeology (continued):

1994:

- -- Drilling and investigation of soil drain capabilities for artificial wetlands / eco waste water purification system in Lahstedt (approved as EXPO project)
- -- Investigation of water biocontamination and development of a sanitation scheme at the Bernsen well site, Auetal community, Lower Saxony

-- End of Reference List --