Table of contents

- Exploration permits ................................................................. 1
- Production permits ................................................................. 1
- Infrastructure permits ............................................................. 2
- Information permits ............................................................... 2
- Permit administration areas ..................................................... 2
- Historical exploration permits ................................................ 3
- Historical production permits ............................................... 3
- Historical infrastructure permits .......................................... 4
- Historical permit administration areas ................................. 4
- Boreholes ............................................................................... 4
- Ground and surface water monitoring .................................... 4
- Cadastre .................................................................................. 5
- Administrative boundaries ...................................................... 5
- Survey control ........................................................................ 5
- Native Title .............................................................................. 5
- Unavailable land ..................................................................... 6
- Constrained land ..................................................................... 6
- Resources ............................................................................... 7
- Water ...................................................................................... 8
- Map index ............................................................................... 8
- Structural framework .............................................................. 8
- Geology .................................................................................. 10
- Geophysics ............................................................................. 12
- Infrastructure .......................................................................... 12
- Analytical data ........................................................................ 12
- Products .................................................................................. 13
- Base maps ............................................................................... 13
- Feature Actions ....................................................................... 14
- Layer Actions ......................................................................... 14
Exploration permits

**Coal**
- EPC application
- EPC granted

**Mineral**
- EPM application
- EPM granted
- Special
  - EPM special application
  - EPM special granted

**Mineral development licence**
- MDL application
- MDL permit application
- MDL access application
- MDL granted
- MDL permit granted
- MDL access granted

**Petroleum**
- ATP application
- ATP granted
- Petroleum PCA application
- Petroleum PCA granted

**Geothermal**
- EPG application
- EPG granted

**Greenhouse gas**
- EPQ application
- EPQ granted

**Offshore petroleum (source NOPTA)**
- OEP application
- OEP granted

Production permits

**Mining claim**
- MC application
- MC permit application
- MC access application
- MC granted
- MC permit granted
- MC access granted

**Mining lease**
- ML application
- ML permit application
- ML surface area application
- ML access application
- ML granted
- ML permit granted
- ML surface area granted
ML access granted

**Petroleum lease**
- PL application
- PL granted

**Greenhouse lease**
- QL application
- QL granted

**Geothermal lease**
- GL application
- GL granted

**Infrastructure permits**

**Mining lease infrastructure**
- ML infrastructure application
- ML infrastructure permit application
- ML infrastructure surface area application
- ML infrastructure access application
- ML infrastructure granted
- ML infrastructure permit granted
- ML infrastructure surface area granted
- ML infrastructure access granted

**Pipeline licence area**
- PPL application area
- PPL granted area

**Pipeline licence centre line**
- PPL application centre line
- PPL granted centre line

**Petroleum facility licence**
- PFL application
- PFL granted

**Information permits**

**Petroleum survey licence**
- PSL application
- PSL granted

**Data acquisition authority**

**Permit administration areas**

**Moratorium**
- Moratorium area mineral
- Moratorium area special

**Advertised area**
- Advertised area geothermal
- Advertised area greenhouse gas
- Advertised area petroleum
- Advertised area coal
- Advertised area mineral
Proposed advertised area petroleum
Proposed advertised area coal
Proposed advertised area mineral

GSQ Open Data Portal

Report index
Collaborative drilling initiative rounds 1 to 10

Historical exploration permits

Mineral
- Historical EPM prior to 1961
- Historical EPM 1961 to 1970
- Historical EPM 1971 to 1980
- Historical EPM 1981 to 1990
- Historical EPM 1991 to 2000
- Historical EPM 2001 to 2010
- Historical EPM after 2010

Coal
- Historical EPC prior to 1971
- Historical EPC 1971 to 1980
- Historical EPC 1981 to 1990
- Historical EPC 1991 to 2000
- Historical EPC 2001 to 2010
- Historical EPC after 2010

Historical EPG

Historical EPQ

Petroleum
- Historical ATP prior to 1961
- Historical ATP 1961 to 1970
- Historical ATP 1971 to 1980
- Historical ATP 1981 to 1990
- Historical ATP 1991 to 2000
- Historical ATP 2001 to 2010
- Historical ATP after 2010

Mineral development licence
- Historical MDL extent
- Historical MDL access

Historical production permits

Historical mining claim
- Historical MC extent
- Historical MC access

Historical mining lease
- Historical ML extent
- Historical ML surface area
- Historical ML access

Historical mining lease (points)
- Historical ML application
Historical ML granted

**Historical mineral freehold selection (points)**
- Historical MFS application
- Historical MFS granted

**Historical geothermal lease**
**Historical greenhouse lease**
**Historical petroleum lease**

**Historical infrastructure permits**
**Historical pipeline licence centre line**

**Historical permit administration areas**

**Historical advertised area**
- Historical advertised area geothermal
- Historical advertised area petroleum
- Historical advertised area greenhouse gas
- Historical advertised area coal
- Historical advertised area mineral

**Boreholes**

**Boreholes by type**
- Petroleum wells
- Coal seam gas wells
- Mineral boreholes
- Stratigraphic boreholes
- Coal boreholes
- Water bores (P&G Acts/other)
- Greenhouse gas wells

**Core/cuttings held by Queensland government core facilities**
**Boreholes with hylogger data**

**Ground and surface water monitoring**

**Groundwater bores**
- Registered water bores (DNRME and private)

**Groundwater monitoring**
- Current water level monitoring bores (DNRME)
- Past water monitoring and investigation bores (DNRME)
- Water monitoring bores with near real time data (DNRME)
- All mine monitoring water bores (DNRME and private)
- Mine monitoring water bores with water levels (DNRME and private)
- CSG monitoring water bores
  - Surat CMA underground water impact reporting monitoring bores (DNRME and private)
  - CSG online monitoring bores (DNRME and private)
  - CSG net monitoring bores (Private)

**Surface water monitoring**
- DNRME open gauging stations
- DNRME closed gauging stations
Cadastre

Cadastre (DCDB) parcel
Cadastre (DCDB) parcel > 1 ha
Cadastre (DCDB) parcel > 10 ha
Cadastre (DCDB) parcel > 1000 ha
Lease and reserve tenure
Road parcel
Properties
Stock routes
  Stock route
  Stock route reserve
  Proposed stock routes

Administrative boundaries

Australian census data—statistical area level 3 (SA3)
Block and sub–block
  Block identification map index
  Block
  Sub–block
Federal electorate
Local authority
Maritime boundary
  Coastal water
  Continental shelf
  Exclusive economic zone
  Scheduled area–Petroleum (Submerged Lands) Act 1967 (Cth)
  Territorial sea
  Torres Strait protected zone
Mining district
Mining region
North West Minerals Province
North West QLD Mineral and Energy Province
State electorate

Survey control

CORS sites
Survey control marks
  Datum GDA fixed by GNSS
  Derived GDA fixed by survey
  Derived GDA fixed by other
Survey control-benchmark

Native Title

Aboriginal and Torres Strait Islander land
  ATSIL-freehold land
  ATSIL-reserve
Deed of Grant in Trust
Designated landscape area

Indigenous Land Use Agreement-expired
Indigenous Land Use Agreement-private
Indigenous Land Use Agreement-state
Land subject to Native Title-indication only
Native Title claim determination
Native Title claim application
Representative Aboriginal and Torres Strait Islander Body (RATSIB) area

Unavailable land

Commonwealth acquisition (unavailable)
Conservation park
Fish habitat area A
Forest reserve
Fossicking area
National park
Scientific purposes reserve
 Torres Strait protection zone
World heritage area

Constrained land

Commonwealth acquisition (constrained)
Coordinated conservation area
Designated fossicking land
DAF research site
Endangered regional ecosystem
Fish habitat area B
General permission area
Mining policy decision
Miscellaneous noting
Nature refuge
Priority agricultural area
Priority living area
Queensland marine park
Regional open space system
Reserve
Resources reserve
Restricted area
Restricted area 384-urban
State development area
Coordinated projects - The Coordinator General

State forest
State forest
State forest feature protection
State forest park
State forest scientific area
Forest consent area
Forest entitlement area A
Forest management area
Quarry resource
Quarry resource access
Plantation licence area
Timber reserve

State heritage place
Strategic cropping land (SCL)
  SCL criteria zone
  SCL criteria sub–zone
  SCL trigger map

Strategic environmental area (SEA)
  SEA
  SEA–designated precinct

Surat Basin transitional area

Wild rivers (repealed)
  Wild rivers designated urban management area
  Wild rivers special floodplain management area
  Wild rivers high preservation area
  Wild rivers nominated waterway
  Wild rivers preservation area
  Wild rivers special floodplain management area
  Wild rivers sub-artesian management area

Resources

Coal resource
  Coal mine
  Coal mine (care and maintenance)
  Historical coal workings
  Advanced coal project
  Coal project
  Coal occurrence

Extractive resource (KRA)
  Proposed
    KRA transport route proposed
    KRA transport route separation area proposed
    KRA resource/processing area proposed
    KRA separation area proposed

Approved
  KRA transport route
  KRA haulage corridor
  KRA transport route separation area
  KRA separation area
  KRA resource/processing area

Mines and mineral resource (MINOCC)
  Mines and mineral occurrence by status
  Mines and mineral occurrence by commodity
    Operating mine
    Care and maintenance
    Historical workings
    Mineral occurrence
Petroleum resource
   Petroleum resource site

Water

Water plan area except GABORA
Groundwater management area except GABORA
GABORA 2017 water plan management area
Drainage basin extent
Drainage basin

Map index

1:100k map index
1:250k map index

Structural framework

Structural framework all
Structural framework by orogen
Jurassic–Cretaceous Basins
   Carpentaria Basin
   Clarence–Moreton Basin
   Eromanga Basin
   Laura Basin
   Maryborough Basin
   Mulgildie Basin
   Nambour Basin
   Styx Basin
   Surat Basin
   Whitsunday Province
Triassic Basins
   Burketown Depression
   Callide Basin
   Canobie Depression
   Esk Basin
   Ipswich Basin
   Tarong Basin
Permian–Triassic Basins
   Bowen Basin
   Calen Basin
   Cooper Basin
   Galilee Basin
   Gamboola Basin
   Lakefield Basin
   Ngarrabullgan Basin
   Olive River Basin
   Cape York–Oriomo Province
Devonian–Carboniferous Basins
Adavale Basin
Barrolka Depression
Belyando Basin
Bundock Basin
Burdekin Basin
Clarke River Basin
Drummond Basin
Gilberton Basin
Pascoe River Basin
Warrabin Trough
Centralian Superbasin
Georgina Basin
Basins of unknown age
Inorunie Basin
Millungera Basin
New England Orogen
Gympie Province
Connors–Auburn Province
    Auburn Subprovince
    Connors Subprovince
Yarrol Province
    Berserker Subprovince
    Campwyn Subprovince
    Grantleigh Subprovince
    Nogo Subprovince
    Rockhampton Subprovince
    Stoodleigh Subprovince
Wandilla Province
    Beenleigh Subprovince
    Coastal Subprovince
    North D’Aguilar Subprovince
    South D’Aguilar Subprovince
    Yarraman Subprovince
Woolomin Province
    Silver Spur Subprovince
    Texas Subprovince
Calliope Province
    Awoonga Subprovince
    Capella Subprovince
    Craigilee Subprovince
    Erebus Subprovince
    Philpott Subprovince
Marlborough Province
Silverwood Province
New England Orogen extent
Mossman Orogen
Broken River Province
    Camel Creek Subprovince
    Graveyard Creek Subprovince
Hodgkinson Province
    Chillagoe Subprovince
Palmer–Barron Subprovince
Mossman Orogen extent
Thomson Orogen
Neoproterozoic–Early Paleozoic Provinces
  Anakie Province
  Barnard Province
  Charters Towers Province
  Fork Lagoons Subprovince
  Greenvale Province
  Iron Range Province
  Mount Windsor Subprovince
  Warburton Basin
Thomson Orogen extent
Proterozoic Provinces
  Mesoproterozoic
    South Nicholson Basin
    Croydon Province
    Savannah Province
  Paleoproterozoic-Mesoproterozoic
    Etheridge Province
    McArthur Basin
    Mount Isa Province
  North Australian Craton extent

Geology

Observation points
  Field sites
  Primary structures
  Tectonic structures
  Fossil sites
  Isotopic dating sites
  Other structural measurements

Detailed 1:100k
  Detailed structure
    Detailed geological boundaries
    Detailed faults and shear zones
    Detailed folds
    Detailed dykes, veins or sills
    Detailed markers, marker beds or marker bands
    Detailed lineaments
    Detailed joints and fractures
    Detailed trends and dips
    Detailed volcanic features
    Detailed other natural features
    Detailed other features
  Detailed surface geology extent
Detailed surface geology
Detailed solid geology extent
Detailed solid geology

Regional 1:500k, 1:1M
Regional geology extent
  Regional Bowen Basin extent
  Regional Burdekin River extent
  Regional Cape York Peninsula extent
  Regional Carpentaria-Karumba Basins extent
  Regional Central Eromanga Basin extent
  Regional Georgina Basin extent
  Regional Hodgkinson-Laura Basins extent
  Regional Moreton Region extent
  Regional Mount Isa Inlier extent
  Regional Northern Eromanga Basin extent
  Regional Northwestern Eromanga Basin extent
  Regional Southern Thomson Orogen extent
  Regional Surat Basin extent
  Regional Torres Strait extent
  Regional Townsville Hinterland extent
Regional Bowen Basin structure
Regional Bowen Basin solid geology
Regional Burdekin River structure
Regional Burdekin River surface geology
Regional Cape York Peninsula structure
Regional Cape York Peninsula surface geology
Regional Carpentaria-Karumba Basins structure
Regional Carpentaria-Karumba Basins surface geology
Regional Central Eromanga Basin structure
Regional Central Eromanga Basin surface geology
Regional Georgina Basin structure
Regional Georgina Basin surface geology
Regional Hodgkinson-Laura Basins structure
Regional Hodgkinson-Laura Basins surface geology
Regional Moreton Region structure
Regional Moreton Region surface geology
Regional Mount Isa Inlier structure
Regional Mount Isa Inlier surface geology
Regional Northern Eromanga Basin structure
Regional Northern Eromanga Basin surface geology
Regional North western Eromanga Basin structure
Regional North western Eromanga Basin surface geology
Regional Southern Thomson Orogen structure
Regional Southern Thomson Orogen solid geology
Regional Surat Basin structure
Regional Surat Basin surface geology
Regional Torres Strait structure
Regional Torres Strait surface geology
Regional Townsville Hinterland structure
Regional Townsville Hinterland surface geology
State 1:2M
State structure
  State geological boundaries
  State faults
  State folds
State natural and cartographic features
State surface geology

Geophysics

**Airborne geophysical survey**
- Airborne exploration survey-available
- Airborne exploration survey-unavailable
- Airborne state survey
- Airborne federal survey
- Airborne open range survey
- Airborne multi-client survey

**Gravity survey**
- Gravity base station
- Gravity data station
- Regional gravity survey

**Magnetotelluric survey**

**Seismic survey**
- Seismic survey 2D
- Seismic survey 3D
- Seismic survey deep

**Hyperspectral survey**

**ASTER map tiles**

Geophysical imagery

- Qld TMI magnetic image
- Qld variable RTP image
- Qld variable RTP 1VD image
- Qld radiometric image
- Qld complete BA gravity image
- Seismic survey C horizon

Infrastructure

- Power stations
- ENERGEX network
- ENERGEX substations
- ERGON network
- ERGON substations
- Transmission network 10km corridor
- Transmission network 30km corridor
- Gas and water pipelines

Analytical data

- Clay mineralogy Eromanga Basin
- Whole rock mineralogy Eromanga Basin
- Whole rock mineralogy Galilee Basin
- Whole rock mineralogy Surat Basin
Products

Atlas map
Gemfields map
Geochemistry map
Geology map
Geophysical map
Groundwater map
Index map
Industrial rock map
Mine map
Mineral occurrence map
Miscellaneous map
Permit map
Resource map

Elevation

Contours
Hillshade traditional
Hillshade multidirectional

Mountains and ranges

Mountains
Ranges

Base maps

Satellite imagery
Satellite imagery-ESRI
Topography
Queensland basemap grey
Queensland basemap lite
Queensland basemap relief
Queensland place names
Road
Railway
## Feature Actions

<table>
<thead>
<tr>
<th>Name</th>
<th>What it does</th>
<th>Layers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Intersect Report</td>
<td>Finds anything that overlaps your area and creates a report in Excel</td>
<td>All layers</td>
</tr>
<tr>
<td>Buffer</td>
<td>Can create a buffer around a boundary between -10,000 and 10,000 metres</td>
<td>All layers</td>
</tr>
<tr>
<td>GSQ Open Data Portal</td>
<td>Searches for data and or reports associated with the selected feature/s in the GSQ Open Data Portal.</td>
<td>All layer permit layers, Report index, Boreholes, Seismic survey 2D, Seismic survey 3D, Seismic survey deep, Airborne geophysics layers, Magnetotelluric survey and Hyperspectral survey</td>
</tr>
<tr>
<td>Field Inspection Report</td>
<td>Creates a PDF and/or CSV of the points of an area-can select whether you would like accesses and/or surface areas depending on the layer</td>
<td>Exploration permits-mineral development licence-application and grant Production permits-mining claim-application and grant Production permits-mining lease-application and grant Infrastructure permits-mining lease-application and grant</td>
</tr>
<tr>
<td>Generate short report – Permit template</td>
<td>Creates a short report as a PDF of the attributes of a feature with a link to QDEX Reports</td>
<td>All permit layers except point data under historic production permits</td>
</tr>
<tr>
<td>Generate short report – Generic template</td>
<td>Creates a short report as a PDF of the attributes of a feature</td>
<td>All layers except the permit layers as above</td>
</tr>
<tr>
<td>Intersect</td>
<td>Finds anything that overlaps your area between -10,000 and 10,000 metres</td>
<td>All layers</td>
</tr>
<tr>
<td>Intersect Topics</td>
<td>Uses a topic and any chosen layer/s to show intersections</td>
<td>All topics except the “Topography” one</td>
</tr>
<tr>
<td>Open QDEX reports</td>
<td>Opens a specified website - <a href="https://qdexquest.dnrm.qld.gov.au/portal/site/qdex/">https://qdexquest.dnrm.qld.gov.au/portal/site/qdex/</a></td>
<td>Historical layers</td>
</tr>
<tr>
<td>Resource Authority Report</td>
<td>Creates a report from MyMinesOnline - <a href="https://myminesonlineservices.business.qld.gov.au/Web/PublicEnquiryReport.htm?permitType=(PermitTypeAbbreviation)&amp;permitNumber=(PermitNumber)">https://myminesonlineservices.business.qld.gov.au/Web/PublicEnquiryReport.htm?permitType=(PermitTypeAbbreviation)&amp;permitNumber=(PermitNumber)</a></td>
<td>All current permit layers</td>
</tr>
<tr>
<td>Zoom to feature</td>
<td>Zooms to a feature</td>
<td>All layers</td>
</tr>
</tbody>
</table>

## Layer Actions

<table>
<thead>
<tr>
<th>Name</th>
<th>What it does</th>
<th>Layers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>A link to sources of data downloads like QSpatial or NNTT</td>
<td>Where available</td>
</tr>
<tr>
<td>Hide labels</td>
<td>Can toggle labels on or off</td>
<td>All layers</td>
</tr>
<tr>
<td>Query layer attributes</td>
<td>Query layers</td>
<td>All layers</td>
</tr>
<tr>
<td>Zoom to layer extent</td>
<td>Zooms to the layer</td>
<td>All layers</td>
</tr>
<tr>
<td>Make this the only visible layer</td>
<td>Toggles other layers on or off</td>
<td>All layers</td>
</tr>
<tr>
<td>Moratorium Area Report</td>
<td>Creates a PDF of relevant sub-blocks up to a specific date</td>
<td>Moratorium area mineral and moratorium area special</td>
</tr>
<tr>
<td>Name</td>
<td>What it does</td>
<td>Layers</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td><strong>Open QDEX reports</strong></td>
<td>Opens a specified website - <a href="https://qdexguest.dnrm.qld.gov.au/portal/site/qdex/">https://qdexguest.dnrm.qld.gov.au/portal/site/qdex/</a></td>
<td>Current and historical permits and boreholes</td>
</tr>
<tr>
<td><strong>Open Web Map Service</strong></td>
<td>A link to a web map service: <a href="https://giservices.information.qld.gov.au/arcgis/rest/services/Imagery/QldBase_AllUsers/ImageServer">https://giservices.information.qld.gov.au/arcgis/rest/services/Imagery/QldBase_AllUsers/ImageServer</a></td>
<td>Satellite imagery</td>
</tr>
<tr>
<td></td>
<td><a href="https://services.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer">https://services.arcgisonline.com/ArcGIS/rest/services/World_Imagery/MapServer</a></td>
<td>World imagery – ESRI</td>
</tr>
<tr>
<td></td>
<td><a href="https://giservices.information.qld.gov.au/arcgis/rest/services/Economy/MinesPermitsHistoric/MapServer">https://giservices.information.qld.gov.au/arcgis/rest/services/Economy/MinesPermitsHistoric/MapServer</a></td>
<td>Historical permits</td>
</tr>
<tr>
<td></td>
<td><a href="https://giservices.information.qld.gov.au/arcgis/rest/services/GeoscientificInformation/AnalyticalData/MapServer">https://giservices.information.qld.gov.au/arcgis/rest/services/GeoscientificInformation/AnalyticalData/MapServer</a></td>
<td>Analytical data</td>
</tr>
<tr>
<td></td>
<td><a href="https://giservices.information.qld.gov.au/arcgis/rest/services/GeoscientificInformation/GeologyRegional/MapServer">https://giservices.information.qld.gov.au/arcgis/rest/services/GeoscientificInformation/GeologyRegional/MapServer</a></td>
<td>Geology - Regional 1:500k, 1:1M</td>
</tr>
<tr>
<td></td>
<td><a href="https://giservices.information.qld.gov.au/arcgis/rest/services/GeoscientificInformation/MiningResources/MapServer">https://giservices.information.qld.gov.au/arcgis/rest/services/GeoscientificInformation/MiningResources/MapServer</a></td>
<td>Resources</td>
</tr>
<tr>
<td></td>
<td><a href="https://giservices.information.qld.gov.au/arcgis/rest/services/Boundaries/MiningAdministrativeAreas/MapServer">https://giservices.information.qld.gov.au/arcgis/rest/services/Boundaries/MiningAdministrativeAreas/MapServer</a></td>
<td>Block identification map index, blocks, sub-blocks, mining districts, mining regions, north west Qld mineral and energy province, survey control-benchmark, land subject to Native Title-indication only, fossicking area, general permission area, miscellaneous notings and mining policy decision</td>
</tr>
<tr>
<td>Search for resource authorities (LAMP)</td>
<td>A link to public searches for resource authorities</td>
<td>Current permits, cadastre and local authorities</td>
</tr>
</tbody>
</table>