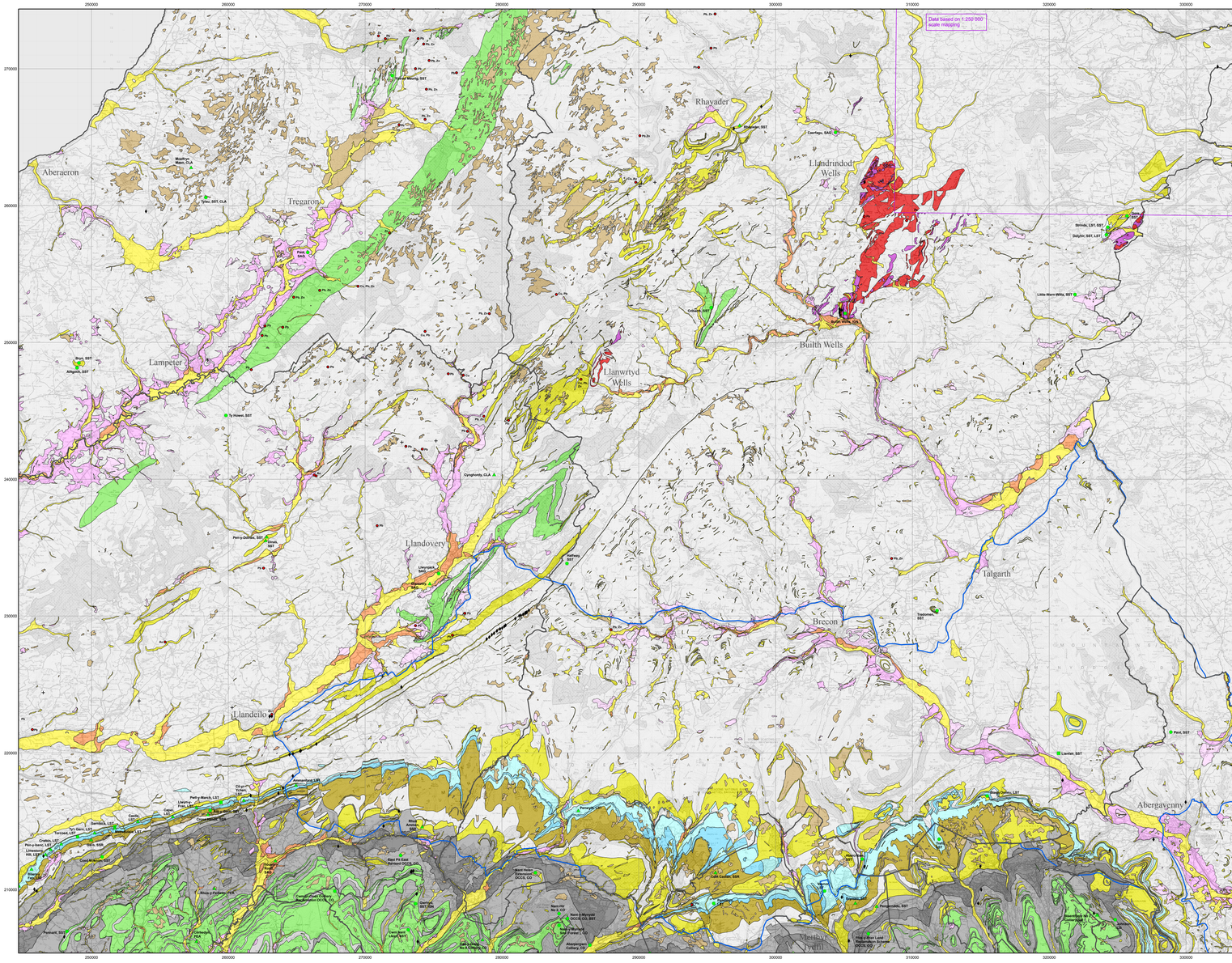
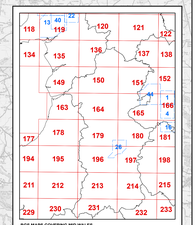


MINERAL WORKINGS COMMODITY
NWYDD MWYNOL

CO	Coal, Deep Glo Dwfn
CrT	Chert Siert
CLA	Clay & Shale Clai a Siâl
CO	Coal, Surface Mine Glo Bing
FIR	Fireclay Cait tân
IGN	Igneous & Metamorphic Igneiaidd a Metamorffig
LST	Limestone Calchfaen
PEA	Peat Mawn
SAG	Sand & Gravel Tywod a Graean
SAN	Sand Tywod
SLA	Slag Sorod
SLT	Slate Llechfaen
SLW	Slate Waste Gwastraff Llechfaen
SSA	Silica Sand Tywod Silica
SSR	Silica Rock Craig Silica
SST	Sandstone Tywodfaen

METALLIFEROUS MINERALS
MWYNAU METELOG

Symbol / Symbol	Element / Elfen
Ag	Silver Arian
As	Arsenic Arsenig
Au	Gold Aur
Ba	Barium Bariwm
Bi	Bismuth Bismwth
Co	Cobalt Cobalt
Cu	Copper Copr
Fe	Iron Haearn
Mn	Manganese Manganîs
Pb	Lead Plwm
Sb	Antimony Antimoni
Zn	Zinc Sinc



BGS MAPS COVERING MID WALES
MAPIAU AUR AR GYFER CANOLBARTH CYMRU

1:25 000 Classic Geology maps Mapiau Daeareg Glasurol 1:25 000
1:50 000 Geological maps Mapiau Daeareg 1:50 000

SAND AND GRAVEL
TYWOD A GRAEAN

Superficial deposits
Dyddodion arwynebol

- Sub-alluvial / Tanlifwaddodol
- River terrace / Cerlan
- Glaciofluvial / Rhewdreiviliol
- Glacigenic (as in poorly sorted and locally clayey) / Rhewliliol (fel ddiddosledig a chleiog yn lleol)
- Blown sand / Tywod chwyth

PEAT
MAWN

- Peat, generally more then one metre thick / Mawn, yn fwy nag un metr o drwch fel arfer

IGNEOUS ROCKS
CREIGIAU IGNEAIDD

- Dolerite intrusions with potential for high specification aggregate / Mewnwthiadau dolerit â photensial am agreg ac iddo raghanylion uchel
- Other igneous rocks including basalts, felsites, gabbros, tuffs and granites / Creigiau igneaidd eraill yn cynnwys, basaltau, ffelsitau, gabrosau a gwenithfeini

SANDSTONE
TYWODFAEN

- Sandstone with potential for high specification aggregate / Tywodfaen â photensial am agreg ac iddo raghanylion uchel
- Quartzitic sandstone with potential for silica sand and silica rock / Tywodfaen cwarsitig â photensial am dywod silica a chraig silica
- Other sandstone / Tywodfaen erail

LIMESTONE
CALCHFAEN

- High purity limestone (>97% $CaCO_3$): Carboniferous / Calchfaen Carbonifferaidd pur iawn (>97% $CaCO_3$)
- Limestone: Other Carboniferous / Calchfaen Carbonifferaidd arall
- Other limestone / Calchfaen erail

SLATE
LLECHFAEN

- Slate waste / Gwastraff llechfaen

COAL
GLO

- Primary shallow coal resource / Adnodd glo bas cynradd
- Secondary shallow coal resource / Adnodd glo bas eilradd
- Tertiary shallow coal resource / Adnodd glo bas trydyddol

METALLIC MINERAL OCCURRENCES
PRESENOLDEB MWYNAU METELOG

- Symbol indicates elemental occurrence / Y testun yn dynodi'r elfennau cofnodedig

HISTORIC SLATE QUARRIES
CHWARELI LLECHI HANESYDDOL

+

SIGNIFICANT HISTORIC BUILDING STONE QUARRIES
CHWARELI CERRIG ADEILADU O BWYS HANESYDDOL

♦

MINERAL WORKINGS
GWEITHFEYDD MWYNOL

- Pwll, SST — Active (name, commodity worked) / Gweithredol (enw, natur y mwydd a gloddir)
- Llwfar, SST — Dormant, as defined by the Environment Act 1995 (name, commodity worked) / Segur, yn unol â diffiniad Deddf yr Amgylchedd 1995 (enw, natur y mwydd a gloddiwyd)
- Rhydec, SST — Inactive, worked out and/or restored (name, commodity worked) / Anweithredol, wedi'i ddibenydda a/neu ei adfer (enw, natur y mwydd a gloddiwyd)

ADMINISTRATIVE AREAS
ARDALOEDD GWEINYDDOL

- Mineral Planning Authority: Unitary Authority / Awdurdod Cynllunio Mwynol: Awdurdod Unedol
- Mineral Planning Authority: National Park / Awdurdod Cynllunio Mwynol: Parc Cenedlaethol

Uncoloured areas on the map indicate undivided bedrock and surface superficial deposits not considered mineral resources.
Unspecified mineral resources may be present locally at surface or at depth.

Mae'r rhannau o'r map sydd heb eu lliwio yn dynodi creigiau a dyddodion arwynebol anrhanedig na chânt eu hystyried yn adnoddau mwynol.
Gall fod adnoddau mwynol amhenodol yn bresennol yn lleol neu ar ddyfnder.

WARNING: Please by aware that the printed colours may differ due to the settings of the plotter used

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Llywodraeth Cynulliad Cymru
Welsh Assembly Government

MID WALES (SOUTH)
CANOLBARTH CYMRU (DE)

Mineral Resource Map of Wales
Map o Adnoddau Mwynol Cymru

Mineral Resources
Adnoddau Mwynol

Scale 1:100 000
Graddfa 1:100 000

Compiled by: C. Morley, T.P. Bide, A.J. Humpage, J.R. Davies and G.K. Lott.
Project Leaders: A.J. Humpage, J.M. Mankelow and A. Benham.
Digital Cartography: N.A. Spencer, British Geological Survey.
Published 2010.

Cynhyweyd gan: C. Morley, T.P. Bide, A.J. Humpage, J.R. Davies a G.K. Lott.
Arweinwyr y prosiect: A.J. Humpage, J.M. Mankelow ac A. Benham.
Cartografiaeg ddigidol: N.A. Spencer, Arolwg Daearegol Prydain (ADP).
Cyhoeddwyd 2010.

This map is one of a series of six maps commissioned by the Welsh Assembly Government and co-funded by the BGS Sustainable Mineral Solutions Project and the Aggregates Levy Sustainability Fund for Wales (Contract 252/2009/09).
This map is to be used in conjunction with the accompanying guide 'A Guide to Mineral Resource Information and Aggregates Safeguarding in Wales'.

Mae'r map hwn yn un o gyfres o chwe map a gomisiynwyd gan Lywodraeth Cymulliad Cymru ac a gyd-ariannwyd gan Broseict Sudianabbe Mineral Solutions ADP a Chronfa Cynaliadwyedd yr Ardoll Agregau ar gyfer Cymru (Cytundeb 252/2009/09).
Dylid defnyddio'r mapiau hyn mewn perthynas ât arweiniyth sy'n cyd-fynd â hwy, sef 'Arweiniad i Wybodaeth am Adnoddau Mwynol a Diogelu Agregau yng Nghymru'.

BGS map reference:

Mineral Resource Map of Mid Wales - South
Morley, C., Bide, T.P., Humpage, A.J., Davies, J.R. and Lott, G.K. OR/10/024.

Cyfeirnod map ADP:

Map Adnoddau Mwynol Canolbarth Cymru - De
Morley, C., Bide, T.P., Humpage, A.J., Davies, J.R. a Lott, G.K. OR/10/024.

Aims and Limitations

The purpose of the maps in this series is to show the broad distribution of those mineral resources which may be of current or potential economic interest. The maps are intended to assist strategic decision making in respect of mineral extraction and the protection of important mineral resources against sterilisation. They bring together a wide range of information, much of which is scattered and not always available in a convenient form.

The maps have been produced by the collation and interpretation of mineral resource data principally held by the British Geological Survey.

The mineral resource data presented are based on the best available information, but are not comprehensive and their quality is variable. The inferred boundaries shown are, therefore, approximate. Mineral resources defined on the map represent only those which are considered potentially economically viable based on the available information, at the time and also take no account of planning constraints that may limit their working. The economic potential of specific sites can only be proved by a detailed evaluation programme. Such an investigation is an essential precursor to submitting a planning application for a mineral working. Sites where aggregates are shown as having no mineral resource potential, but some isolated mineral workings may occur in these areas. The presence of these operations generally reflect very local or specific situations. These maps need to be used in conjunction with the accompanying guide 'A Guide to Mineral Resource Information and Aggregates Safeguarding in Wales'.

The locations of those quarries active in 2010 are shown. In addition former important building stone quarries are also shown. These have been extracted from the British Geological Survey's Britpits database in April 2010. While the compilers have tried to ensure that the site details are as accurate as possible, any map of active quarries is a snapshot in time. Moving the extraction location as reserves become exhausted or a new extension starts production, and remarking of sites are regular occurrences. In addition sites may cease to be active at any time.

The maps are intended for general consideration of mineral issues and not as a source of detailed information on specific sites. The maps should not be used to determine individual planning applications or in taking other decisions on the acquisition or use of a particular piece of land, although they may give useful background information which sets a specific proposal within context.

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Amcanion a Cheyfyngiadau

Pwrpas y mapiau yn y gyfres hon yw dangos dosbarthiad cyffredinol yr adnoddau mwynol hynny a allai fod o ddiddordeb economaidd ar hyn o bryd neu o ddiddordeb economaidd posibl. Pwrpas y mapiau yw cynorthwyo'r gwaith o ddod i benderfyniadau strategol yn ymwneud ag echdynnu mwynau a gwarchod adnoddau mwynol pwysig rhag cael eu hystyried yn ddi-fudd. Maent yn dwyn ynghyd wybodaeth o nifer o wahanol ffynonellau, gwybodaeth sydd yn aml yn wasgaredig ac sydd ddim bob amser ar gael mewn ffurf gyfleus.

Cynhyrchwyd y mapiau drwy gryntso a dehongli'r data am adnoddau mwynol yn meddiant Arolwg Daearegol Prydain yn bennaf.

Mae'r data a gyflwynir am adnoddau mwynol yn seiliedig ar yr wybodaeth orau sydd ar gael, ond nid yw'n ddata'n gynhwysfawr ac mae eu hansawdd yn amrywio. Felly, ffedyrwyd yw'r ffiniau a dangosir. Mae'r adnoddau mwynol a diffiniir ar y map yn ardinedig anwynebedau,i' ardaleoedd y gall fod mwynau gwerthiadwy i'w cael ynddynt. Nid yw'r potensial yn unffurf yn yr ardaleoedd hyn ac ni roddir ystyriaeth i gyfyngiadau cynllunio a allai gyfyngu ar waith dcoddio. Dim ond drwy ymgymryd â rhaglen werthuso manylion y gellir profi'r potensial economaidd penodol hwnnw. Mae'r ymchwiliad hwnnw'n ofyniad cyn cyflwyno cais cynllunio ar gyfer cloddio am fwynau. Ni chyfrinoir unrhyw adnoddau mwynol o gwbl drwy ardaleoedd eang, ond gall fod rhai gweithleoedd mwynol unigol i'w cael yn yr ardaleoedd hyn. Fel rheol, mae presenoldeb y gweithleoedd hyn yn adlewyrchu amgylchiadau llenodol neu leol iawn. Dylid defnyddio'r mapiau hyn mewn perthynas ât arweiniyth sy'n cyd-fynd â hwy, sef 'Arweiniad i Wybodaeth am Adnoddau Mwynol a Diogelu Agregau yng Nghymru'.

Nodir llediad y chwarelli hynny a oedd at waith yn 2010. Ât hynny, modir hefyd hen chwarelli eanig adeiladau o bwys. Daeir wybodaeth yma, a gafwyd yn Ebrill 2010, o gronfa data Britpits Arolwg Daearegol Prydain. Er bod cryntwyvyr y map wedi ceisio sicrhau bod manylion y safleoedd mor gywir â phosibl, mae unrhyw fap o chwarelli gweithredol yn gyfoun at ainsp. llenodol. Mae symud safle'r cloddio pan gaiff adnoddau eu disbyddu neu wrth i estynnad newydd ddechrau cynhyrchu, yn digyotol ag ailenw safleoedd, yn ddigwyddiadau cyson.

Bwriedir y mapiau ar gyfer ystyried materion cyffredinol yn ymwneud â mwynau ac nid fel ffynhonnell gwybodaeth fanwl am safleoedd penodol. Ni dylid defnyddio'r mapiau, wrth ddod i benderfyniad ynglŷnch ceisiadau cynllunio unigol neu benderfyniadau eraill parthed cael gafael ar ddarn penodol o dir neu o ran ei ddefnydd, er y gallant ddarparu gwybodaeth gefndir ddefnyddiol sy'n gosod cynnig penodol yn ei gyd-destun.

Hawlfraint

Mae'r cynnyrch hwn yn cynnwys data mapio ar drwydded gan yr Arolwg Ordnans dyda chamaddef Rheolwr Llyfrfa Ei Mawrhydi O Hawlfraint y Coron a'rau hawl coronfa data 2010. Cadwir pob hawl. 100037272.

Cynhyrchwyd y cyhoeddiad hwn gan Arolwg Daearegol Prydain ar gyfer Llywodraeth Cymulliad Cymru. Arolwg Daearegol Prydain © NERC 2010. Ât hawlfraint y cyhoeddiad (ac eithrio logos) gellir ei atgynhyrchu'n rhydd ât unrhyw ffurf neu ddull ât ymchwil, astudiaeth bersonol neu cylchredeiad o fewn mudiad. Mae hyn yn amodol ar ganiad ât atgynhyrchu'n gywir ac nid mewn cyd-destun camarweiniol. Mae'n rhaid cydnabod y deunydd fel a ganlyn: © NERC, ganodd teitl y cyhoeddiad.