THE CLWYD-POWYS ARCHAEOLOGICAL TRUST

Mineral Workings in Clwyd and Powys

AN ARCHAEOLOGICAL ASSESSMENT



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INTRODUCTION

Clwyd and Powys together contain a considerable number of quarries and other mineral workings which are either currently active or temporarily mothballed. It has been apparent for some time that there were deficiencies in our knowledge of the archaeological elements of those mineral concession areas being exploited and that because of this it had not been possible to determine an appropriate course of action for what might be significant threats to the archaeological resource. Yet since the formation of the Clwyd-Powys Archaeological Trust (CPAT) in the mid-1970s, important projects resulting from the extension of mineral workings have been promoted at the hillforts of the Breiddin (Powys), Dinorben (Clwyd) and Moel Hiraddug (Clwyd); on upland sites at Nant Helen (Powys); and on a putative round barrow at Hendre (Clwyd). The need for a systematic assessment of the current situation is patent.

In 1990/91 CPAT was funded by Cadw: Welsh Historic Monuments to undertake a rapid survey of the existing mineral concession areas in the two counties for the purpose of:

- a collecting data on the number and future expansion plans of active mineral workings, including opencast coal workings and the rare but potentially significant peat workings
- b identifying what if any archaeology existed in undisturbed parts of each mineral working
- c recommending what further action might be necessary to preserve this archaeology in situ or by record before it was lost.

THE MINERAL WORKINGS

Information on the location and nature of mineral workings was provided by the Minerals Section in the Planning Department of Clwyd County Council and by the Planning Department of Powys County Council. Fifty-four commercial mineral workings were identified in the two counties, thirty-eight in Clwyd and sixteen in Powys. Of these three in Clwyd and three in Powys were inactive at the time of the survey.

There are of course a much larger number of quarries and other mineral workings which have operated in the past, ranging from small quarries exploited for a specific purpose and then abandoned, through to much larger commercial extractions, such as Llanymynech Hill, south of Oswestry, which was quarried up until the 1920s. Accessible information on the location and potential of these is at best patchy, at worst non-existent. Ostensibly the time and effort spent in identifying such quarries would not be balanced by the archaeological return, and no attempt has been made during the current project to examine this aspect of the industry.

There is, however, a potentially significant problem here in the form of the Interim Development Order (IDO). These have been a focus of increasing media attention over the last twelve months (<u>Rural Wales</u>, Summer 1990, 25; <u>The Independent</u> 12 February 1991), reflecting the growing concern of local authorities. IDOs were registered before the implementation of the 1947 Town and Country Planning Act to allow the subsequent continuation of earlier quarrying operations. No comprehensive list of such orders was maintained and generally local authorities have little idea of the numbers granted and thus of when or where an abandoned quarry might be reactivated by a company that has sought out and acquired an IDO over the last forty years. Four active quarries in Powys operate under unmodified IDO approvals (D. Keast: pers. comm.), but it is those mineral workings that may be reactivated with minimal constraints in the future that must cause the greatest concern, not only to local authorities, but also to any organisation concerned with the countryside.

GEOLOGY

Clwyd more than Powys possesses a diversity of mineral resources, namely limestone, sand and gravel, coal, chertstone, brick and fireclays, silica and moulding sands, calcspar, slate, tufa, iron, lead, copper, zinc and peat. In economic terms the exploitation of some of these minerals is of historical interest only. Today, it is the reserves of limestone, sand and gravel, coal, brick clay, silica sand, tufa and peat which are being exploited. The working quarries of Clwyd are found in the north and east of the county across a range of topographic features. The limestone quarries are located in the northern coastal hills and in the belt of Carboniferous limestone outcrop which forms Halkyn Mountain and the eastern foothills of the Clwydian Range, with an extension of the outcrop south-east as far as Ruabon Mountain. Sand and gravel extraction is focused on the extensive deposits of fluvioglacial origin in the Alun-Wheeler valley and around Wrexham. There is only one remaining coal mine in Clwyd, at Point of Ayr, where the workings extend beneath the seabed; the opencast working of coal is currently confined to two quarries. The exploitation of brick clays, silica sand, tufa and peat is localised and on a small scale.

The geology of Powys is dominated by a monotonous sequence of shales, siltstones and sandstones. These rocks are exploited locally for use as aggregate and rock fill. Carboniferous limestone is quarried on the southern county boundary where the rock outcrops along the edge of the South Wales coalfield. It is here that coal is mined by the opencast method, currently at one site with another proposed. Outcrops of resistant igneous rocks which form a block of high ground - the Breiddin - in the middle Severn valley are exploited as a source of hard rock for road aggregate and coating purposes. Old Radnor Hill, formed of Pre-Cambrian sedimentary rocks and an adjacent outcrop of Silurian limestone is the other significant focus of quarrying on the eastern boundary of the county.

PROJECT METHODOLOGY

Building on information provided by the two county councils, the interrogation of the Sites and Monuments Record (SMR) for Clwyd and Powys provided data on known archaeology within each mineral working area (see Gazetteer below). General information of archaeological and non-archaeological character was recorded on pro-forma sheets and these, together with Ordnance Survey photocopies at a scale of 1:10000, form the basis of the project archive.

A gazetteer of quarries has been prepared from the archive which is reproduced at the end of this report. Quarry numbers in the text refer both to the location map and the gazetteer.

Aerial photographs were examined for selected mineral workings in Powys, specifically those taken by the RAF between 1946 and 1948 and (in the Brecon Beacons National Park) by JAS Photographic Ltd of Mitcham, Surrey in 1985. Overall, this approach yielded very little new data and was not extended to other districts, largely because many of the areas of untouched land within existing concessions were extremely small (see below). Clwyd's aerial photograph cover was not examined.

Fieldwork involved rapid, but systematic survey of the unquarried part of each concession and a more cursory search for industrial archaeological features within the quarries themselves. As a matter of policy, no more than half a day was spent at any one quarry and in the case of the large Rhaeadr quarry in Powys (no.43)

this has led to a recommendation of further survey work. The approach to fieldwork varied, the writers sometimes working as a team, sometimes individually.

A small number of mineral working areas were not visited. In southern Powys, the two opencast coal sites of Nant Helen (no.52) and Brynhenllys (no.53) had already been subjected to archaeological investigation by CPAT during the last ten years, and the small quarry at Cribarth (no.48) had also been visited recently.

More serious omissions resulted from the refusal by ARC Powell Dyffryn Ltd and Tilcon (North Central) Ltd to allow access to their quarries. Consequently in Clwyd the large Llanddulas quarry (no.3) was not visited, though a rapid survey was carried out in 1989 by CPAT prior to the granting of permission for an extension to the quarry. Tilcon was unable to grant access to St George quarry (no.4), being the former site of Dinorben hillfort, destroyed in 1979. The lack of co-operation from ARC Powell Dyffryn was of particular concern for Llanelwedd (no.47) has known archaeological potential, while Blaen Onneu (no.49) is in a region of unimproved limestone upland whose archaeological significance is under-researched.

ARC Powell Dyffryn Ltd and Tilcon (North Central) Ltd apart, the response from quarry operators was positive and frequently reflected a concern for environmental issues. Recent upgraded government regulations on health and safety have necessitated closer controls on activities in and around quarries including visitor accompaniment and this resulted in a company representative learning something of archaeological fieldwork on several occasions.

RESULTS: CLWYD

The survey has confirmed in general terms the 'mature' state of most of Clwyd's quarries - current workings have for the most part reached the edge of their concessions, and where original ground surface remains it has been disturbed by landscaping, topsoil-stripping, overburden removal and the construction of earth bunds.

Previously unrecorded surface archaeology was identified at three sites, Pant y Pwll Dwr (no.13) where small scale mining features occurred, Moel y Faen (no.33) with features related to the extraction of slate and at Clogau (no. 34) where minor boundary banks were noted. None of these archaeological sites are of special note.

RESULTS: POWYS

Powys has considerably fewer active quarries than Clwyd, but the concession areas (or at least the untouched portions of those concession areas) tend to be larger, and there is a proportionately greater number of quarries in unimproved uplands. Consequently, it is not surprising that rather more tangible results have emerged from the Powys survey than from its northern neighbour.

Ten of the sixteen mineral workings incorporated previously identified archaeological features and fieldwork showed five to have archaeology not recorded in the SMR. None of the newly identified features, however, is of major significance. Post-medieval sites (e.g. pillow mounds, field limekilns and structures such as shelters) feature prominently, only one putative medieval feature (a house platform) has been identified, and although prehistoric sites are more numerous (e.g. cairns, a hillfort) the majority are older discoveries which have either been removed by quarrying or have been excavated in advance of threatened destruction. Two large industrial structures (a limekiln and a brick kiln) exist within works complexes. Both have been recorded photographically by the Royal Commission on Ancient and Historical Monuments in Wales (RCAHMW).

RECOMMENDATIONS

The following recommendations relate to existing mineral concessions in Clwyd:

- Moel Hiraddug(no.5): when operations resume attention should be directed to the remaining hillfort ramparts on the north-east side as a watching brief.
- Springhill (no.9): operations are monitored with respect to the remaining lead
 processing complex.
- Afonwen(no.11): this unique tufa quarry requires better monitoring and recording of working faces for a significant palaeoenvironmental return and archaeological potential.
- Star Crossing (no.17): monitor western extension.
- Trimm Rock (no.20): monitor northern extension.
- Cefn Mawr (no.22): monitor progress of scrub clearance.
- Bryn y Gaer (no.29): monitor quarry edge trackway which impinges on hillfort.
- Clogau (no.34): consider oblique AP record of context of boundary banks, southern edge of quarry concession.
- Cae Llo (no.36): continue to monitor quarry activity adjacent to Offa's Dyke.

Bettisfield Moss(no.38): monitor private peat cutting.

The following recommendations relate to existing mineral concessions in Powys:

- Buttington Brickworks (no.40): a measured survey of the more significant industrial structures
- Tan-y-Foel (no. 41): sites in the vicinity be properly recorded.
- Rhaeadr (no.43): a more detailed, systematic field survey be undertaken, preferably before the reactivation of working there.
- Gore (no.45): local archaeological work be monitored, but with no direct excavation input by CPAT.
- Cwar yr Ystrad (no.51): a proposed extension be the subject of a detailed evaluation.

THE FUTURE

There are indications that the operators of certain quarries in Clwyd may apply for extensions to existing concession areas. It is assumed that the existing framework of development control will allow archaeological considerations to be duly considered. Of advantage to developer, planner and conservation archaeologist alike would be a better adherence to the recently revised CBI Code of Practice for Mineral Operators relating to archaeology which promotes pre-planning assessments. The same is true in Powys. It is evident from discussions with company personnel that though there is considerable uncertainty in the industry at the moment and that the future of at least one working (Buttington Brickworks: no.40) is in doubt, there are plans for major expansion programmes at some quarries. Nash Rocks of Kington have recently commissioned an archaeological evaluation by the City of Hereford Archaeology Unit as part of their planning application for a sizeable extension to Dolyhir and Strinds (no. 46) and it appears that Gryphon Concrete Products are planning to expand Cwar yr Ystrad (no. 50) in the not-too-distant future. This is in addition to the British Coal Opencast Executive's plan to open up a large area around Brynhenllys (no.53), currently the subject of a public inquiry. British Coal consulted CPAT at an early stage in the planning process, just as they did at Nant Helen some years previously. Together with Nash Rocks' instigation of an archaeological assessment at Dolyhir and Strinds, this suggests that some quarry companies are now recognising archaeology as an integral element in their forward planning.

ARCHIVE AND REPORT

The survey archive is held at the offices of the Clwyd-Powys Archaeological Trust in Welshpool where it is available for consultation.

Copies of this report have been submitted to Cadw and to the Planning Departments of Clwyd and Powys County Councils. Further copies may be obtained at cost from the Clwyd-Powys Archaeological Trust.

ACKNOWLEDGEMENTS

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REFERENCES

- Brassil, K.S., Guilbert, G.C., et al. 1982 'Rescue Excavations at Moel Hiraddug', Flintshire Hist. Soc. Publ. 30, 13-88.
- Dorling, P. and Chambers, F. M. 1990 'Field survey, excavation and pollen analysis at Mynydd y Drum, Ystradgynlais, Powys, 1983 and 1987', <u>Bull. Board Celtic Stud.</u> 37, 215-46.
- Drewett, P. 1970 'The excavation of a Bronze Age burial in a natural mound at Maesmynan, Denbighshire, 1969', <u>Bull. Board Celtic Stud</u>. 23, 411-16
- Jacobs, A.J. 1982 <u>Mineral Working in Clwyd, Clwyd County Minerals Local Plan</u>, Clwyd County Council
- Musson, C. 1991 The Breiddin Hillfort: a Later Prehistoric Settlement in the Welsh Marches, Council for British Archaeology Research Report No. 76

GAZETTEER

The entries in the gazetteer are designed to be self-explanatory. It should be noted that the abbreviation SMR stands for the Sites and Monuments Record maintained by the Clwyd-Powys Archaeological Trust and that CAR and PAR numbers refer to entries in the Record.

1 PLAS GWILYM

AAL
11116
arry Co, Llysfaen, Colwyn

2 RAYNES

District	.Colwyn	1011977		8
NGR	.SH 890 782			
Mineral Type	.Limestone			
Area of Holding	. <u>c</u> .65ha			
Remaining Surface Area	. <u>c</u> .15ha			
Status	.Active			
Quarry Ownership	.North West	Aggregates,	Widnes,	Cheshire
Visit	. 16-11-90			
Known site: SMR no + status	.None			
New site: SMR no + status	. None			
Recommendations	. None			

3 LLANDDULAS

	IN THE
DistrictColwyn	3 1 1 10
NGRSH 905 775	
Mineral TypeLimestone	
Area of Holding	
Remaining Surface Area <u>c</u> .10ha	
StatusActive	
Quarry Ownership ARC Powell D	uffryn Ltd, Aberdare
VisitAccess refus	ed
Known site: SMR no + statusNone	
New site: SMR no + statusNone	
RecommendationsNone	

4 ST GEORGE District....Colwyn NGR.....SH 967 760 Mineral Type..... Limestone Area of Holding..... <u>c</u>.48ha Remaining Surface Area.....c.25ha Status.....Active Visit..... Access refused 103000 Known site: SMR no + status...CAR 2037 scheduled hillfort, destroyed 1980 CAR 2036 late Bronze Age hoard, site destroyed 1970s. 101999 New site: SMR no + status.... None Recommendations.....None 5 MOEL HIRADDUG District.....Rhuddlan NGR.....SJ 063 785 Mineral Type..... Limestone Remaining Surface Area.....c.2ha Status.....Mothballed Visit..... 102056 Known site: SMR no + status... CAR 2087 - scheduled hillfort, part destroyed. (Brassil, Guilbert et al. 1982) CAR 2088 late Iron Age hoard. New site: SMR no + status.... None Recommendations...... When operations recommence provision for a watching brief whilst extant ramparts are removed; survey eastern slopes of hill.

7 MAESMYNAN District.....Delyn NGR.....SJ 115 721 Mineral Type....Sand and Gravel Area of Holding.....C.12ha Remaining Surface Area....C.1ha Status....Active Quarry Ownership.....Lloyds, Mold, Clwyd Visit.....10-12-90 Known site: SMR no + status...CAR 2471 ? motte, natural mound (destroyed) with Bronze Age cremations (Drewett 1970), New site: SMR no + status...None Recommendations.....None

8 BRYN MAWR P1202 District.....Delyn Mineral Type.....Chert Remaining Surface Area..... Negligible Status.....Active Quarry Ownership...... McAlpine's, Borras, Wrexham Known site: SMR no + status... CAR 242 ? barrow - destroyed 100368 New site: SMR no + status.....None Recommendations.....None

19204

District	.Delyn
NGR	.SJ 212 757
Mineral Type	.Sand, gravel and coal
Area of Holding	. <u>c</u> .20ha
Remaining Surface Area	. <u>c</u> .8ha
Status	.Active
Quarry Ownership	.Morgan and Sons, Bagillt, Clwyd
Visit	previously visited 1990
Known site: SMR no + status	.CAR 105001, 18-20thC lead processing works,
	remains of flue-system (photo record CPAT
	1991).
New site: SMR no + status	. None
Recommendations	.1990 application cause of photographic survey
	on commencement of extension early 1991,
	continue monitoring.

10 PEN YR HENBLAS

9 SPRINGHILL

10 PEN YR HENBLAS	10120	
DistrictDel	yn 100c	
NGR	191 728	
Mineral TypeChe	rt	
Area of Holding	ha	
Remaining Surface Area Neg.	ligible	
StatusAct	ive	
Quarry Ownership McA	lpine's, Borras	, Wrexham
Visit	2-91	
Known site: SMR no + statusNone	e	
New site: SMR no + status None	e	
RecommendationsNone	e	

11 AFONWEN

BOCK

District	Delyn	
NGR	SJ 128 718	
Mineral Type	Tufa	
Area of Holding	<u>c</u> .6ha	
Remaining Surface Area	Negligible	
Status	Active	
Quarry Ownership	Sproston, Warrington	
Visit	4-12-90	
Known site: SMR no + status	None	
New site: SMR no + status	None	
Recommendations	Extension granted 1990, commenced early	
	1991; watching brief of areas and sections of	of
	buried soils, provides stratigraphic sequer	ice
	from early to mid Post Glacial; of exception	onal
	palaeoenvironmental importance.	

1207

19207

 13 PANT Y PWLL DWR
 Image: Construct to the status to t

14 GRAIG

DistrictGlyndwr
NGRSJ 051 669
Mineral TypeLimestone
Area of Holding
Remaining Surface AreaNegligible
StatusActive
Quarry Ownership
Visit
Known site: SMR no + statusNone
New site: SMR no + statusNone
RecommendationsMonitor alterations to proposed extension. Mine shafts and trials noted on land proposed for extension.

 15 FRONHAUL
 District.....Delyn

 NGR.....SJ 157 706

 Mineral Type....Sand and gravel

 Area of Holding.....Sand and gravel

 Area of Holding.....Sand and gravel

 Status.....

 Quarry Ownership.....Lloyds, Mold, Clwyd

 Visit.....

 Nown site: SMR no + status...None

 New site: SMR no + status...None

 Recommendations.....None

1921

16 PANT

DistrictDelyn
NGRSJ 198 702
Mineral Type Limestone
Area of Holding
Remaining Surface AreaNegligible
StatusActive
Quarry Ownership Wimpey Asphalt
Visit9-1-91
Known site: SMR no + statusNone
New site: SMR no + status None
RecommendationsNone

17 STAR CROSSING District.....Delyn NGR.....SJ 180 680 Mineral Type.....Sand and gravel Area of Holding......Ç.36ha Remaining Surface Area.....Ç.3ha Status.....Active Quarry Ownership.....Tilcon Ltd, Knaresborough, N. Yorks. Visit.....13-3-91 Known site: SMR no + status...None New site: SMR no + status...None Recommendations.....Monitor extension

 18 HENDRE
 District.....Delyn

 NGR......SJ 194 678

 Mineral Type.....Limestone

 Area of Holding.......c.60ha

 Remaining Surface Area.....c.18ha

 Status.....Active

 Quarry Ownership......McAlpine's, Borras, Wrexham

 Visit......14-3-91

 Known site: SMR no + status...CAR 205, putative round barrow, excavated CPAT

 1989, late neolithic features. Site destroyed

 April 1991.

 New site: SMR no + status...None

 Recommendations.....None

19 RHOSESMOR Delyn District.....Delyn NGR.....SJ 216 670 Mineral Type....Sand and gravel Area of Holding......C.18ha Remaining Surface Area....Negligible Status....Active Quarry Ownership.....Bodfari (Quarries), Holywell, Clwyd Visit.....15-12-90 Known site: SMR no + status...None New site: SMR no + status...None Recommendations....None

MIS

19216

約217

District.....Delyn NGR.....SJ 192 660 Mineral Type..... Limestone Remaining Surface Area..... Negligible Status.....Active Known site: SMR no + status...None New site: SMR no + status.....None

21 MAES Y GRUG

20 TRIMM ROCK

District.....Delyn NGR.....SJ 263 663 Mineral Type.....Coal Area of Holding......c.25ha Remaining Surface Area.....c.10ha Status.....Active Quarry Ownership..... Clay Collieries, Telford, Salop. Visit.....22-2-91 Known site: SMR no + status...None New site: SMR no + status.... None Recommendations.....None

22 CEFN MAWR

District.....Delyn NGR.....SJ 205 638 Mineral Type..... Limestone Area of Holding.....<u>c</u>.50ha Remaining Surface Area.....c.20ha Status.....Active Quarry Ownership.....Castle Cement, Mold, Clwyd Known site: SMR no + status...None New site: SMR no + status.... None Recommendations..... Extensive scrub covered areas within present concession. Advise further survey (watching brief) as vegetation is cleared prior to quarry

expansion as watching brief.

23 ABERDUNA

6218

DistrictDelyn			11000
NGRSJ 205	615		
Mineral TypeLimesto	one		
Area of Holding			
Remaining Surface Areac.3ha			
StatusActive			
Quarry OwnershipPioneer	r, South	Harrow,	Middx.
Visit	1		
Known site: SMR no + statusNone			
New site: SMR no + statusNone			
RecommendationsNone			

25 BURLEY HILL District......Delyn NGR.....SJ 204 596 Mineral Type....Limestone Area of Holding.....C.15ha Remaining Surface Area....Negligible Status....Active Quarry Ownership.....Bodfari (Quarries), Holywell, Clwyd Visit....not visited Known site: SMR no + status...None New site: SMR no + status...None Recommendations.....None

27 GRAIG Llanarmon yn Ial District.....Glyndwr NGR....SJ 205 565 Mineral Type....Limestone Area of Holding.....C.30ha Remaining Surface Area....Negligible Status....Active Quarry Ownership....Redland, Groby, Leics. Visit.....12-3-91 Known site: SMR no + status...None New site: SMR no + status...None Recommendations....None

1933 28 MAES Y DROELL District.....Glyndwr NGR.....SJ 219 565 Mineral Type.....Silica sand Remaining Surface Area.....c.6ha Status.....Active Quarry Ownership Stoddard, Stoke on Trent Known site: SMR no + status...None New site: SMR no + status.... None Recommendations...... Monitor extension, north of present quarry 29 BRYN Y GAER District..... Alun and Deeside 19224 NGR.....SJ 317 576 Mineral Type..... Sandstone Remaining Surface Area..... Negligible Status.....Active Quarry Ownership..... Caird Environmental, Rossett, Clwyd Visit.....28-5-91 Known site: SMR no + status...CAR 1201 part scheduled Caer Estyn hillfort, c.25% destroyed New site: SMR no + status..... None Recommendations........... Monitor proposed change of use to land fill site. 30 BANK FARM K1205 District.....Wrexham-Maelor

34 CLOGAU

District	.Glyndwr	
NGR	.SJ 185 463	
Mineral Type	.Slate	
Area of Holding	. <u>c</u> .24ha	
Remaining Surface Area	. <u>c</u> .8ha	
Status	.Inactive	
Quarry Ownership	. ?	
Visit	. 15-2-91	
Known site: SMR no + status	.None	
New site: SMR no + status	.CAR 105005 minor field bour	ndary banks
Recommendations	And the second sec	d context of field
	banks	

35 HAFOD	Fia.
DistrictWrexham-Maelor	7 63
NGRSJ 309 455	
Mineral TypeClay	
Area of Holdingc.25ha	
Remaining Surface AreaNegligible	
StatusActive	
Quarry Ownership Dennis Ruabon, Ruabon,	Clwyd
Visit visit 1990	
Known site: SMR no + statusNone	
New site: SMR no + statusNone	
RecommendationsNone	

19231 36 CAE LLO District.....Wrexham-Maelor NGR.....SJ 287 542 Mineral Type.....Coal and clay Remaining Surface Area..... Negligible Status.....Active Quarry Ownership UES, Brymbo, Clwyd Visit..... visited 1989-90 Known site: SMR no + status...CAR 3000 scheduled length of Offa's Dyke New site: SMR no + status.... None Recommendations...... Continue monitoring work adjacent to Offa's Dyke 37 BORRAS 19123-District.....Wrexham-Maelor NGR.....SJ 355 527 Mineral Type..... Sand and gravel Area of Holding......c.l15ha Remaining Surface Area..... Negligible Status.....Active Quarry Ownership..... McAlpine's, Borras, Wrexham Visit.....previously visited 1990 Known site: SMR no + status... None New site: SMR no + status.... None Recommendations..... Anticipate major extension to the north 38 BETTISFIELD MOSS District.....Wrexham-Maelor NGR.....SJ 474 350 and 489 377 Mineral Type.....Peat Area of Holding.....<2ha Remaining Surface Area..... Negligible Status.....Active Quarry Ownership Lloyd and Austin - private individuals Known site: SMR no + status...None

New site: SMR no + status....None Recommendations.....Area included in CPATs Fenn's Moss survey; continue monitoring these small scale workings.

39 CRIGGION

9714

JA CKIGGION	12.4
District	
NGR	.SJ 2914
Mineral Type	. Igneous
Area of Holding	. <u>c</u> .65 ha
Remaining Surface Area	.<10 ha
Status	.Active
Quarry Ownership	ARC Northern, Wetherby, West Yorks
Visit	
Known site: SMR no + status	.PAR 1254 (Scheduled) Hillfort
Recommendations	Site excavated 1969-75 (Musson 1991). Further
	investigation of remaining hillfort earthworks
	and interior within concession area not justi-
	fied at present.

£1235 40 MIDDLETOWN District..... Montgomeryshire NGR.....SJ2912 Mineral Type..... Igneous Area of Holding.....< ha Remaining Surface Area..... Negligible Status.....Active Quarry OwnershipBorder Hardcore and Rockery Stone Ltd, Middletown Visit.....12-12-1990 Known site: SMR no + status... None New site: SMR no + status.... None Recommendations..... No response for existing quarry. Any extension should be evaluated carefully **41 BUTTINGTON BRICKWORKS** 19236 District..... Montgomeryshire NGR......SJ 2610 Mineral Type.....Shale Area of Holding.....c.23 ha Remaining Surface Area.....c.16 ha Status.....Mothballed Quarry Ownership..... Butterley Brick Ltd, Ripley, Derbyshire Known site: SMR no + status...None New site: SMR no + status..... PAR 6658: Ridge and furrow PAR 6659: Brick kiln made in case of demolition 42 TAN Y FOEL District.....Montgomeryshire Mineral Type..... Sandstone Remaining Surface Area.....c.17 ha Status.....Active Visit.....07-02-1991 Known site: SMR no + status... PAR 1332: Pillow Mounds PAR 6618: Ring cairn PAR 6619: Peat drying platform PAR 6633: Sheep shelter New site: SMR no + status.... None and monitoring of quarry expansion

PENSTROWED 43 1236 District......Montgomeryshire Mineral Type..... Sandstone Remaining Surface Area.....c.4ha Status..... Active (on a very small scale) Quarry Ownership......Goetre Ltd, Abermule, Montgomery Visit.....17-01-1991 Known site: SMR no + status...None New site: SMR no + status.... None Recommendations..... None at the present time. 44 RHAEADR (CERRIGGWYNION) 1923 District.....Radnor Mineral Type.....Gritstone Remaining Surface Area......c.45ha Status.....Mothballed Quarry Ownership..... Tarmac Roadstone (Western) Ltd, Halesowen, West Midlands Visit.....25-01-1991 Known site: SMR no + status... PAR 266: ?Destroyed New site: SMR no + nature.... PAR 6654: Boundary stone? PAR 6655: Hut foundations? PAR 6656: House platform Recommendations..... Detailed and systematic survey required, preferably before resumption of quarrying 45 CAERFAGU District.....Radnor Mineral Type..... Sand and gravel Area of Holding..... c.9 ha Remaining Surface Area.....c.4 ha Status..... Active (on a very small scale) Quarry Ownership.....Caerfagu Products, Caerfagu Known site: SMR no + status...None New site: SMR no + status.... None Recommendations.....None 46 GORE 19241 District.....Radnor Mineral Type.....Gritstone Remaining Surface Area.....c.33 ha Status.....Active Visit.....12-03-1991 Known site: SMR no + status... PAR 2165: Pillow mound 🧹 New site: SMR no + status.... PAR 6659: Cairn? - Chargements Les 1226. PAR 6660: Cairn? PAR 6661: Enclosure system PAR 6662: Flint flake

47 DOLYHIR and STRINDS

11203 District.....Radnor Mineral Type..... Limestone and Gritstone Remaining Surface Area.....??10 ha Status.....Active Quarry Ownership Nash Rocks Ltd, Kington Visit.....12-03-1991 Known site: SMR no + status... PAR 4142: RB pottery New site: SMR no + status.... None Recommendations.....Current planning application to extend quarries. Assessment undertaken by external contractor. CPAT commenting and no additional response required.

48 LLANELWEDD

District.....Radnor Mineral Type..... Igneous Remaining Surface Area..... Not known Status.....Active Quarry Ownership..... ARC Powell Dyffryn Ltd, Aberdare, Mid Glamorgan Visit.....Access refused Known site: SMR no + status... PAR 1609 and 1610: pillow mounds PAR 1611: cairn PAR 1612: barrows PAR 3787: cockpit PAR 4101: pillow mound

49 CRIBARTH

District.....Brecknock Mineral Type.....Gritstone Area of Holding..... c.8 ha Remaining Surface Area.....Not calculated Status.....Active Quarry Ownership..... Mr D. Williams, Cribarth considered necessary Known site: SMR no + status... None New site: SMR no + status.... None Recommendations..... None

50 BLAEN ONNEU

District....Brecknock Mineral Type..... Limestone Remaining Surface Area..... Not known Status.....Active Quarry Ownership ARC Powell Dyffryn, Aberdare Visit.....Access refused Known site: SMR no + status... PAR 9554: hut site Recommendations..... No recommendations possible

CEFN

51 CWAR YR YSTRAD District......Brecknock NGR......SO 0713 Mineral Type......Limestone Area of Holding......C.32 ha (current quarry) Remaining Surface Area.....C.13 ha Status....Active Quarry Ownership.....Gryphon Concrete Products, Gelligroes, Gwent Visit.....27-03-1991 Known site: SMR no + status...None New site: SMR no + status...PAR 6649 Temporary limekilns PAR 6650 Temporary limekilns Recommendations....Detailed survey to be considered, in conjunction with assessment of proposed quarry extension

52 PENWYLLT

DistrictB	recknock 11248
NGR	N 8515
Mineral TypeL	imestone
Area of Holding	.16 ha
Remaining Surface AreaN	il
Status A	ctive
Quarry OwnershipW	impey Hobbs, Nailsea, Bristol
Visit2	7-03-1991
New site: SMR no + statusP	AR 6652 Limekiln
RecommendationsN	one

53 NANT HELEN

District	Brecknock	
NGR	SN 8210	1249
Mineral Type	Coal	0.03 25250.00
Area of Holding	<270 ha	
Remaining Surface Area	?	
Status	Active	
Quarry Ownership	British Coal Opencast Executive, Ab	perdare
Known sites	Listed in published source (see bel	.ow)
	Survey and excavation undertaken by 1983 and 1987 in advance of open-ca Report published (Dorling and Chamb and no further response required.	st mining.

54 BRYNHENLLYS

District	Brecknock
NGR	SN 7612
Mineral Type	Coal
Area of Holding	<u>c</u> .226ha
Remaining Surface Area	As above?
Status	Proposed
Quarry Ownership	British Coal Opencast Executive, Aberdare
Known sites	Listed in assessment report (see below)
Comment	Archaeological field assessment on behalf of
	British Coal in August 1989 to be followed by
	evaluation should British Coal be successful in
	their planning application. No further response
	required at this time.

FILE MINERALS.PM3