BIBLIOGRAPHY FOR THE ENGLISH LEAD INDUSTRY

nb. In the bibliography that follows, the use of the word Anon in place of an author’s name does not imply that a report was authored anonymously, simply that the authors’ names were not present in the sources consulted to compile this list.

GENERAL

Barnatt, J & Worthington, T 2007 ‘Post-medieval firesetting in British metal mines: the archaeological evidence’ British Mining 83, 4-20
Cranstone, D 1992 Monuments Protection Programme: The Lead Industry – Step 1 report. CC for EH
Dearn, M 1990 The Economy of the South Pennines with particular reference to the Lead Extraction Industry in its National Context. (unpub PhD, University of Sheffield)
Palmer, M & Neaverson, P 1989 ‘The Comparative Archaeology of Tin and Lead Dressing in Britain during the Nineteenth Century’ Bull PDMHS 10.6

BRISTOL

Nicholls, J F nd ‘Penpark Hole, a Roman lead mine’ Trans Bristol Gloucester Archaeolol Soc 4, 320-328

CORNWALL

Mayer, P J 1990 ‘Calstock and the Bere Alston silver-lead mines in the first quarter of the 14th century’ Cornish Archaeol 29, 79-95
[see also the Cornwall county list of CHES reports on unspecified mineral product]

CUMBRIA

Fairbairn, R A 2007 ‘A tenth century lead smelting site in West Allendale’ British Mining 83, 47-51
Hewer, R E 1984 ‘Bannerdale Lead Mine’ British Mining 25, 26-30
DERBYSHIRE

Adams, D R 1963 ‘Survey of the South Shropshire Lead Mining Area. Part 1: The Western Region’ Bull PDMHS 2.2

Adams, D R 1964 ‘Survey of the South Shropshire Lead Mining Area. Part 2: The Eastern Region’ Bull PDMHS 2.3


Allen, T 2003 Archaeological Field Evaluation of land at Dene Quarry, Cromford, Derbyshire. SMR Doc 769 (unpub report)


Band, S 1975 ‘Lead Mining in Ashover: A Preliminary Survey’ Bull PDMHS 6.2


Barnatt, J 1993 Priestcliffe Lees Nature Reserve, Priestcliffe, Taddington, Derbyshire. Archaeological Survey 1

Barnatt, J 1993 Winnats Head Farm, Castleton, Derbyshire. Archaeological Survey. 2

Barnatt, J 1993 Hassop Estate, Hassop and Rowland. Archaeological Survey (lead mine, fluor spar)

Barnatt, J 2004 An Inventory of Regionally & Nationally Important Lead Mining Sites in the Peak District.


Barnatt, J 2006 Watergrove Mine, Foolow, Derbyshire. Rapid Archaeological Field Assessment. (unpub report)

Barnatt, J 2006 ‘Fireset Workings not included in the Published Inventory of Regionally and Nationally Important Lead Mining Sites in the Peak District’ Mining History 16.3, 90

Barnatt, J and Penny, R 2004 The Lead Legacy: The Prospects for the Peak District’s Lead Mining Heritage. PDNPA

Barnatt, J and Riewerts, J 1995 The Lead Mine Affected Landscape of the Peak District. (unpub report)


Barnatt, J & Worthington, T 2006 A Detailed Archaeological Assessment of Fern and Roman Caves, High Tor Rape and Hard Rape, High Tor, Matlock Bath. (unpub report)

Barnatt, J & Worthington, T 2007 ‘Post-medieval firesetting in British metal mines: the archaeological evidence’ British Mining 83, 4-20

Barnatt, J & Worthington, T 2009 ‘Metal Mines through time: unravelling archaeological evidence at Long-worked Mines in the Peak District’ Mining History 17.3, 1-121


Bevan, W J & Sidebottom, P C. 1995. Rowter Farm, Castleton & Woodside Farm, Oxlow End, Peak Forest, Derbyshire. Archaeological Survey 17 (Penny Mine and Wham Rake) (unpub report)

Bryden, D J 1965 ‘Roman Lead Mining in Derbyshire’ Bull PDMHS 2.5

Chatburn, H E 1962 ‘The surface remains of Dirtlow Rake’ Bull PDMHS 1.7, 22-6


Ford, T and Rieuwerts, J H 1983. Lead Mining in the Peak District. 3rd edition

Fundall, R 1974 ‘A survey of a mine in Tearsall’ Bull PDMHS 5.6 373-80

Guilbert, G 1996 ‘The Oldest Artefact of Lead in the Peak - New Evidence from Mam Tor’ Bull PDMHS 13.1, 12-18

Heathcote, C 1997 ‘Surface Remains of the New Venture Lead Mine, Bradwell Moor, Derbyshire’ Mining History 13.3

Heathcote, C 1997 ‘Surface Remains of the New Venture Lead Mine, Bradwell Moor, Derbyshire - Part 2’ Mining History 13.4

Heathcote, C 1998 ‘Surface Remains of the New Venture Lead Mine, Bradwell Moor, Derbyshire – Part 3’ Mining History 13.6

Jurecki, K 2008 Derwent Valley Mills World Heritage Site Landscape Project: Cromford and Belper Survey Transects. Level 1 Survey. (unpub report)

Keirnan, D 1989 The Derbyshire lead industry in the sixteenth century. Derbyshire Record Soc,

Kirkham, N 1962 ‘Tearsall and Dallfield Soughs’ Bull PDMHS 1.6, 3-14


Naylor, P J 1987. ‘Hopping Mine, Upperwood, Matlock Bath’ Bull PDMHS 10.1


Rieuwerts, J 1987 History & Gazetteer of the Lead Mine Soughs of Derbyshire. (article in monograph ??)

Rieuwerts, J 1983 The Alport Mining Field. (unpub doc)

Rieuwerts, J 1987 History and gazetteer of the lead mine soughs of Derbyshire.


Robey, J A 1970 ‘Two Lead Smelting Mills in North Staffordshire’ Bull PDMHS 4.3


Sheppard, R & Wilson, A (TPA) 2007 An Archaeological Desk-based Assessment of Land near Godfreyhole, Wirksworth, Derbyshire. (includes lead rakes) (unpub report)


Taylor, H 1999 Hartington Moor Farm, Hartington Town and Middle Quarter, Derbyshire. Archaeological Survey (unpub report)
Taylor, H 1999 *Hard Rake, Ashford-in-the-Water, Derbyshire* . Nos. 4, 6, 8-11 (unpub reports)

Taylor, H 1999 *Mill Farm, Over Haddon, Derbyshire. Rapid Farm Survey - Upland Option.* (unpub report)

Timberlake, S 2003 & 2004 ‘Early Leats and Hushing Remains: Suggestions and Disputes of Roman Mining and Prospection for Lead’ *Mining History 13.6*

Ullathorne, A 2002 *Hollow Farm, Harthill and Youlgreave, Derbyshire. Archaeological Survey* 18 (unpub report)

(includes workers cottages)


**Lead Smelting (Derbyshire)**


Kiernan, D & Van de Noort, R 1992 ‘Bole smelting in Derbyshire’ in L Willies & D Cranstone (eds) *Boles and Smeltmills 19-21*

Wigglesworth, G 2006 ‘The mills on Lea Brook, Derbyshire’ *Wind & Water Mills. 25*, 2-26

Wigglesworth, G 1992 *Dethick Lea and Holloway: Lead Smelting in Lea*

Williams, C J & Willies, L 1968 ‘Stone Edge Cupola’ *Bull PDMHS 6*, 315-22

Willies, L, 1969 ‘Cupola lead smelting sites in Derbyshire, 1737-1900’ *Bull PDMHS 4.1*, 112

Willies, L 1990 ‘Derbyshire lead Smelting in the 18th and 19th Centuries’ *Bull PDMHS 11.1*, 1-19

Willies, L 1992 ‘Problems in the interpretation of cupola lead smelting sites’ in L Willies & D Cranstone (eds) *Boles & Smeltmills 40-42*

**DEVON**

Booker, F 1974 *Industrial Archaeology of the Tamar Valley.* Newton Abbot: David and Charles


Claughton, P F 2003 *Silver Mining in England and Wales, 1066-1500.* (Unpub PhD Univ of Exeter)


Harris, H 1968 *Industrial Archaeology of Dartmoor.* Newton Abbot: David & Charles

Mayer, P 1990 *Calstock and Bere Alston Silver/Lead Mines in the 14th Century.* (Article in Serial)


DURHAM
Anon 1993 An Archaeological Survey of the Lord Crewe Estate. NAS (unpub report)
Beadle, H L 1969 The lead smelting mills of Teesdale and district. Durham County Local History Soc Vol 2
Beadle, H L 1972 Killhope Lead Crushing Mill. Durham Co Museums Service (unpub report)
Blackburn, A 1994 ‘Mining Adventures in the Rookhope Valley’ The Bonny Moor Hen 7, 41-52
Clack, P 1980 The Archaeology of the Durham Dales. DAC
Cranstone, D 1985 Interim Excavation Report Park Level Mill. DCC Planning Report
Dunham K C & Hobbs R J 1976 ‘Burtree Pasture Lead Mine’ Industrial Archaeology Review 1.1, 7-17
Forbes, I, Young, B, Crossley, D & Hehir, L 2003 Lead Mining Landscapes of the North Pennines Area of Outstanding Natural Beauty. Durham CC
Hardie, C 2005 Weardale Historic Settlement Patterns, Crawleyside. (NAA unpub report 05/12)
Nichol, R 1998 Killhope Woodland Archaeological Survey. (unpub report)
Raistrick, A and Jennings, B 1965 History of Lead Mining in the Pennines. Michigan: Longman
Raistrick, A 1975 Lead Industry of Wensleydale & Swaledale, Vol 1, Buxton. 98-101 [Coal Gill, Tan Hill]
Short, R 1999 Coldberry Water Balance Durham; Evaluation Trenches. NPHT (unpub report)

LAKE DISTRICT
Adams, J 1995 Mines of the Lake District Fells. Lancaster: Dalesman
Allison, W 1999 Notes on Mines in Ireby and Uldale, Caldbeck, Threlkeld, Mungrisdale, Bassenthwaite and Underskiddaw. (unpub manuscript)
Anon 1988 ‘Survey and Excavation at Uzzicar Shaft, Barrow Mine, Keswick’ LMQT Newsletter
Anon 1997 Thirlmere Estate Survey, Cumbria: Archaeological Survey. LUAU (unpub report) [includes Brown Crag copper mine; Wythburn Lead Mine]

Anon 2001 *Greenside Mines Patterdale, Cumbria: Archaeological Evaluation*. OAN (unpub report)

Anon nd *Greenside Lead Mine Glenridding, Cumbria: Archaeological Excavation, Survey and Watching Brief*. OAN (unpub report)


CATMHS 1992 *Beneath the Lakeland Fells: Cumbria’s Mining Heritage*. Ulverstone: Red Earth

CLAU 1984 Catalogue and Maps of Archaeological Survey of Langdale and Scafell. CLAU (unpub cat)

Crossley, D W 1988 *Hogget Gill Lead Smelting Mill, Hartsop: Survey and Archive Report, with Recommendations, for the National Trust*. (unpub report)

Lane, C 1988 Excavation report of the Uzzicar Mine Water Wheel. LMQT (unpub manuscript)

Lancaster, K J 1989 ‘Mines and quarries on Baugh Fell’ *Sedbergh Historian* 2.4, 15-26

Landless, V 1979 ‘Greenside Explored’ *British Mining* 11, 66-74

Lax, A 1993 *Hartsop Dod Mine: an archaeological survey by the RCHME*. RCHME (unpub report)


Lund, J 2002 ‘Dying Embers; Industrial Archaeology of the Lake District Woodlands’ *Timetracks* (Spring Issue: Jan 2003)

Maxwell, L 1995 Hogget Gill Lead Smelter, Hartsop Hall and Brotherswater. (unpub report for NT)


Postlethwaite, J 1913 *Mines and Mining in the English Lake District*. Moss

Raitlton, M 2003 Survey of Hartsop Hall Lead Mine, Cumbria. (unpub report prepared for the National Trust as part of an MA in Archaeological Survey at the Dept of Archaeology, Durham University)


RCHME 1995 *Mecklin Park Causeway Mine*. RCHME (unpub report)

RCHME in 1995 A survey of Gill Force Mine Workings. RCHME (unpub)


Richmond, I A 1946 ‘A Roman Vat of Lead from Ireby, Cumberland’ *Trans Cumberland and Westmorland Antiq and Archael Soc* 45, 163-171

Robinson, N G 1990 ‘Ravenstonedale’ *British Mining* 41, 19-21

Shaw, W T 1983 *Mining in the Lake Counties*. Lancaster: Dalesman

Smith, R, Murphy, S and Allison, W 2001 ‘The lost German mines at Caldbeck’ *Trans Cumberland and Westmorland Antiq Archaeol Soc* 1 (3rd ser), 89–104

Tyler, I 1995 *Seathwaite Wad and the Mines of The Borrowdale Valley*. Ulverstone: Red Earth

Tyler, I 1989 *Cockley Beck and Seathwaite Mines*. Ulverstone: Red Earth


Whitfield, C 1995 Rock cut holes at mine level at Stoneycroft Gill, Watendlath. (unpub manuscript)
Whitfield, C 1995 Robson’s Level, Seathwaite Wood Mines, Borrowdale. (unpub manuscript)
Whitfield, C 1995 Graphite Mine, Newhouse Gill Plantation, Seathwaite Farm. (unpub manuscript)
Whitfield, C 1995 Angler’s Crag Iron Mine, Ennerdale. (unpub manuscript)

LANCASHIRE
Cranston, D 1992 MPP The Lead Industry, Step 1 Report.
Cranston, D 1993 MPP The Lead Industry, Step 3 Report.
Gill, M C 1987 The Yorkshire and Lancashire Lead Mines: A Study of Lead Mining in the South Craven and Rossendale Districts. British Mining 33
Roe, M 2000 ‘The Archaeology of the Thieveley Lead Mine’ British Mining 67, 99-107

NORTHUMBERLAND
Bowden, M 1992 Barney Crag Industrial Complex, Carr Shield. RCHME (unpub report) [Lead mines]
Chapman, N A 1989 ‘Langley Barony Lead Mine, near Haydon Bridge, Northumberland’ British Mining 39, 14-19
Chapman, N A 1995 ‘Sike Head Lead Mine, Ramshaw, Northumberland’ British Mining 55, 31-6
Crossley, C and Patrick, K, 2004 Blanchland’s Lead Mining Heritage. Northumberland County Council
Fairbairn, R A 1991 ‘An 18th Century Lead Smelt Mill at Blackhall, Hexhamshire, Northumberland' British Mining 43, 47-52
Fairbairn, R A 1994 ‘Bales of Alston Moor, south Northumberland and Weardale’ British Mining 50, 93-9
Fairbairn, R A 1998 ‘A lead smelting site at Haltwhistle Hill, Allendale’ British Mining 61, 20-1
Fairbairn, R A 2007 ‘A tenth century lead smelting site in West Allendale’ British Mining 83, 47-51
McQueen, G M [nd] Lead and Witherite mining. [more information required]
Raistrick, A and Jennings, B 1965 A History of Lead Mining in the Pennines. London: Longmans
Sellers, P C and Prothero, D H 1993 ‘A Field Survey at Quarry House and North Heugh Farms, Northumberland’ Northern Archaeol 11, 57-72 [Reports evidence resulting from this survey including a Romano-British settlement site, a post-medieval (?) limekiln, lead mine of post-medieval date and two presumably medieval field systems.]

SHROPSHIRE
Adams, D R 1962/68 Survey of the South Shropshire Lead Mining Area.
Adams, D R 1991 The Mines of Llanymynech Hill. SCMC Account 14
Brook, F & Albutt, M 1973 The South Shropshire Lead Mines Survey.
Brown, I J 1988 Snailbeach mine stage 2 study: industrial archaeology aspects of the study area.
Brown, I J 1993 *Snailbeach Lead Mine - Surface Remains.* SCMC Account 17

Davies, T J (nd) *The Engine Houses of the Mines of South Shropshire.*

Davis, R V 1967 *A Brief Account of the Geology, History and Mechanisation of the Snailbeach Mine.*

Goodman, K W G 1978 *Hammerton's Hill. The Land, People and Industry of Titterstone Clee Hill Area ....*

Brown, I J 1988 *Snailbeach mine stage 2 study: industrial archaeology aspects of the study area.*

Chapman, N 1981 *Summary of Buildings at Snailbeach and their Condition.*


Hannaford, H R 1993 *Archaeological monitoring of land reclamation works at Snailbeach Lead Mine.*


Hannaford, H R 2006 *The Stiperstones Hills Archaeological Survey: a report for land management purposes*


Morriss, R K 1991 *Tankerville Lead Mine, Pennerley, Shropshire.* Hereford Archaeology Series 102


Pearce, A (ed) 1995 *Mining in Shropshire.* Shropshire Books

Shaw, M 2009 *The Lead, Copper & Barytes Mines of Shropshire.* Logaston

Trueman, M & Gill, M C 1990. *Snailbeach Lead Mine Stage II Study - Archaeological Survey.*

Wardell Armstrong Ltd. 1988 *Snailbeach Lead Mine Stage II Study - Phase I.*

Wardell Armstrong Ltd. 1988 *Snailbeach Lead Mine Stage II- Feasibility Study - Phase I.*

Wardell Armstrong Ltd. 1989 *Snailbeach Lead Mine Stage II Study - Phase 2 & 3.*


**SOMERSET**

Broomhead, R A 2000 *Fernhill Farm: an archaeological evaluation and historic landscape assessment* (unpub Richard Broomhead report No: RAB/9/00)

Broomhead, R A 2001 *Mendip mining rakes: a provisional sample study of their extent and decline.* (unpub report)

Burgus, B 1971 ‘Mendip Survey- Ubley Rakes’ *Bristol Industrial Archaeology Society J 4*

Cranstone, D 1991 *English Heritage Lead Industry Site Assessments.*


Ellis, P 1987 *Mendip Hills Survey*


Stanton, W I and Clarke, A G 1984 ‘Cornish Miners at Charterhouse-on-Mendip’ *Proc University of Bristol Spelaeological Soc* 17.1, 29-54


**STAFFORDSHIRE**


**YORKSHIRE DALES**

Anon 1996 *Farm Conservation Scheme Archaeological Survey*. IAP (report)


Anon 1997 *Sargill Lead Smelting Mill, an archaeological survey*. LAU (unpub report)

Anon 1999 *Hunger Hill*. LAU (unpub report) [lead mine]

Anon 2003 *Hebden Gill Mine Shaft Survey*. NAA (unpub report)

Anon 2007 *Kingsdale Project - Mining and Quarrying Survey*. (unpub document)

Barker, L 1992 *Mineral Mining on Downholme Moor and Thorpe Edge*. (unpub report)


Bowden, M 1996 ‘Recent Archaeological Fieldwork in the Howgill Fells by the Royal Commission on the Historical Monuments of England’ *Cumberland and Westmorland Antiquarian and Archaeological Society* 96, 1-11


Clough, R T 1962 ‘The Lead Smelting Mills of the Yorkshire Dales: their architectural character, construction and plans’ (article in monograph)


Dennison, E 1996 *Grassington Moor Building Survey*. EDAS (report) [includes mine buildings]

Dennison, E 1997 *Archaeological survey, Keld Smelt Mill, Keld, North Yorkshire*. EDAS (unpub report)
Dennison, E 1997 *Low Oxque Archaeological Survey*. EDAS (report)

Dennison, E 1999 *Buckden Gavel Lead Mine, Wharfedale, North Yorkshire*. EDAS (Report)

Dennison, E 1999 *New Providence Lead Mine, Kettlewell*. EDAS (report)

Dennison, E 2002 *Lemon Gill Culvert, Grinton Lead Smelt Mill Complex, Swaledale*. EDAS (report)

Dickinson, J M 1978 ‘Buckden Out Moor Lead Smelting Mill’ *British Mining* 8, 38-9

Dennison, E (nd) *Bolton Park Mine, Castle Bolton, North Yorkshire*. EDAS (unpub document)


Gill, M C 1988 ‘Yorkshire Lead Mining - Before 1700’ *British Mining* 37, 46-62


Gill, M C 1993 *The Grassington Mines*. British Mining 46


Gill, M C 1993 *Lead Mining Landscapes of the Yorkshire Dales*. (unpub report)

Gill, M C 1993 *Designated Mining Landscapes in the Yorkshire Dales – Mining Related Landscapes*. (unpub report to accompany the 1993 mapping)

Gill, M C 1995 *Historical Survey: Gunnerside Gill, Melbecks, North Yorkshire*. (unpub report)

Gill, M C 1994 *The Wharfedale Mines*. British Mining 49

Gill, M C 1998 *The Greenhow Mines*. British Mining 60

Gill, M C 2004a *Swaledale, its Mines and Smelt Mills*. Ashbourne: Landmark


Horne, P and MacLeod, D 1995 *The Yorkshire Dales Mapping Project*. (unpub report RCHME)

Horne, P and MacLeod, D 2001 ‘Unravelling a Wharfedale landscape. A case study in field enhanced aerial survey’ *Landscapes* 2.2, 65-82


Joy, D 2002 *Hebden: The History of a Dales Township*. Hebdon History Group (monograph)


Morrison, J 1998 *Lead Mining in the Yorkshire Dales*. Skipton: Dalesman

Murphy, S & Baldwin, H 2001 ‘Early lead smelting sites in the Swaledale area of Yorkshire’ *Historical Metallurgy* 35.1, 1-21 [Article on bale smelting sites in the Swaledale area, the locations of which were influenced by several factors including the position within a few kilometres of lead mines]

Raistrick, A 1975 *The lead Industry of Wensleydale and Swaledale vol 1: The Mines.* (monograph)
Raistrick, A 1975 *The lead industry of Wensleydale and Swaledale vol 2: The smelting mills.* (monograph)
Roe, M 2002 *The mines of Malham Moor: An Archaeological Evaluation.* (unpub report)
Roe, M 2003 *Greenhow Hill Lead Mines Survey.*
Roe, M 2003 ‘Lead Mining in the Yorkshire Dales’ *Landscapes* 4.1, 65-78
Roe, M and Davies, A 2007 *Hebden Moor Lead Mine Dressing Floor.* MAC (unpub report)
Turnbull, P 1994 *Grinton Smelt Mill, Swaledale.* (unpub report)
Turnbull, P 1996 *Mining Remains at Cote Farm, Walden. Parts A, B, C.* (unpub report)
Tyson, L O 1986 *A History of the manor and Lead Mines of Arkengarthdale, Yorkshire.* British Mining 29
Tyson, L O 1995 *The Arkengarthdale Mines.* British Mining 53

**NORTH YORKSHIRE**

**Monographs and articles**
Bagenal, T 1999 *Miners and Farmers.* British Mining 62
Clough, R T 1980 *The Lead Smelting Mills of the Yorkshire Dales and Northern Pennines*
Clough, R T 1961 ‘Lead Mines and Mining at Cononley, Near Skipton, Yorkshire’ *Northern Cavern and Mine Research Soc, Trans* 1.1, 40-48
Dickinson, J M 1970 *The Greenhow Lead Mining Field – A Historical Survey* (Individual Survey Series No 4)
Dickinson, J M & Gill, M C 1983 *The Greenhow Lead Mining Field.* British Mining 21 (monograph; updated 1998)
Gill, M C 1993 *Yorkshire Smelting Mills Part 2. The Southern Dales.* British Mining 48 (monograph)
Gill, M C 1998 *The Greenhow Mines* British Mining 60
Gill, M C 1999 ‘Cononley the Anatomy of a Mining Village’ *British Mining* 63, 34-49
Gill, M C and Blacker, J G 1996 *Extractive Industries in the Nidderdale AONB.*
EH 2006 *Providence Smelt Mill, Bewerley.*
Raistrick, A 1973 *Lead Mining in the mid-Pennines: the mines of Nidderdale, Wharfedale, Airedale, Ribblesdale and Bowland* Truro: Barton
Roe, M 2000 *An Integrated Study of the Underground and Surface Archaeology of Cononley Lead Mine, North Yorkshire.* (Unpub undergraduate dissertation Univ of Leicester)
Roe, M 2003 *Greenhoe Lead Mines Survey.* (unpub. NMRS Report)

**Unpublished reports assessments and digital material (North Yorkshire)**

Claro Community Archaeology Group 2004 *Fewston Landscape Archaeology Study* (Database File)


EH 1995 MPP *Step 3 Lead industry Site Assessment Greenhow Mines.*

EH 1998 *Stony Grooves and Merryfield Hole lead mines* SAM Notification

LUAU 2000 *Nidderdale AONB North Yorkshire Archaeological Survey Report.* [descriptions of mine sites]

NYCC 1993 *Howardian Hills Historic Environment Survey*

NYCC 2002 NYCC Archive Collection Database. Fond ID 68 (Database File)

NYCC 2001 *Stony Grooves and Merryfield Hole lead mines* - Database File: NYCC SAM Working