

**Department of Communications, Marine and
Natural Resources**

**CURRENT STATE MINING AND
PROSPECTING FACILITIES AND AREAS
OPEN FOR APPLICATION UNDER
COMPETITION**

1st MAY, 2003

**EXPLORATION AND MINING DIVISION
MINERALS PUBLICATION MP 18/03**

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MAP (in back pocket)

STATE MINING AND PROSPECTING AREAS, 1st May, 2003

(Note: a 1:750,000 black and white version with the O.S. 1:10,560 map sheet numbers is available free on request.)

ALL INFORMATION AND MAP DATA also available on www.emd.ie

GROUND STATUS AND APPLICATION PROCEDURE

All current prospecting and mining facilities, together with their geographical location (by reference to the relevant Ordnance Survey 1 : 10,560 maps), names of the licensees, and with reference to prospecting licences, the details of the minerals for which they are issued, are included in this booklet. The accompanying coloured map also indicates the locations of these prospecting licences and mining facilities as well as displaying ground which is available for application, either by competition (closing date 30th June, 2003) or at any time.

Ground Available

The available prospecting licence areas are differentiated on the accompanying map as follows:

- Open ground: ground which has not been subdivided into licence areas and which is available for application at any time is left blank, and coloured green.
- Open areas: (a) Established licence areas available for application at any time. These are identified by their number and the same colour as open ground (green); (b) Those current prospecting licences (pink) and recently offered licences which are restricted to certain minerals (p.26). Such ground is therefore available for application for other minerals.
- Competition areas: Areas which have been recently surrendered, or have been offered and declined, are indicated by their number and a yellow colour: Applications received by **30th June, 2003**, will be subsequently considered without any regard to time priority.

• Incentive Areas

Significant financial incentives are available for exploration on relatively neglected areas or areas where current exploration is restricted to certain minerals. The incentives consist of **substantially reduced fees and expenditure requirements**, and are designed to provide scope for relatively cheap "grass roots" exploration in order to :

- Encourage work in currently available Prospecting Licence areas where results of earlier exploration had failed to produce sufficient encouragement to the licensee,
- Stimulate interest in ground which is not at present regarded as particularly prospective,
- Allow for the evaluation, at low cost, of new exploration ideas.

The incentives apply to three categories of ground, viz.

- (i) **Open Areas**, where these Prospecting Licence areas have been available for application for more than four years,
- (ii) **Currently licensed areas for certain minerals**, but available for exploration for other minerals, and
- (iii) **Open Ground**, namely ground which has not yet been licensed.

The relevant Open Areas are shown on the accompanying map, which also clearly indicates the Open Ground Category. Currently licensed areas for which exploration may be undertaken for other minerals are listed on pages 26-33.

Open Areas Available For Over Four Years: Where a previously issued Prospecting Licence area has been available for application for at least four years, the licence will be granted for a term of six years. A reduced fee of €1,250 per Prospecting Licence will apply, payable in advance for each phase as €375 for each of the first and second two-year phases and €500 for the third two-year phase. This represents a reduction of €1,875 (60%) in fees compared to the standard requirements.

The minimum expenditure requirements for metalliferous minerals for each two year phase of the licence are significantly reduced. For the first two year phase the requirement is 25% of the normal requirement i.e. €2,500 instead of €10,000, for the second two-year phase it is 33% of normal (€5,000) and for the third two-year phase it is 50% of normal (€10,000). The total requirement for the six year period, therefore, is €17,500 as compared to the normal requirement of €45,000. For non-metalliferous minerals the expenditure requirements will be individually set, but will not be higher than those for metalliferous minerals.

In all other respects the licences will be subject to the standard conditions as given in the Terms of 1st November, 1994. Renewal and expenditure requirements after the initial six years will be as for normal licences.

It should be noted that for most of these areas reports of previous exploration work are available to the public through the Geological Survey of Ireland (p.34).

Currently Licensed Areas: This category is available for companies who wish to undertake exploration over currently held ground for minerals that are not assigned to the current prospecting licence holder. Such additional prospecting licences will however only be issued where the Minister for Communications, Marine and Natural Resources is satisfied that there will be no clash of mineral interests, in line with current practice. The current prospecting licence holder will continue to have a standing Statement of Interest for all other minerals in that area.

Any additional prospecting licence will normally be granted for a period of six years. The fees and expenditure requirements and all other terms will be the same as for prospecting licences that have been available for over four years i.e. the 'Open Areas' Incentive category.

Open Ground: Where a Prospecting Licence is issued over an area which is shown on the accompanying map as never having been licensed, the licence will be for a term of six years. The same reduced fees as for the Open Area category above will apply, namely €1,250, payable in advance as €375 for the first two-year phase, €375 for the second two-year phase and €500 for the third two-year phase.

For metalliferous minerals the minimum expenditure requirements for each two-year phase will be 25% of the normal requirement i.e., €2,500 for the first two-year phase, €3,750 for the second two-year phase and €5,000 for the third two-year phase. This represents a reduction of €33,750 (75%) on the standard requirements. For non-metalliferous minerals the expenditure requirements will be individually set, but will not be higher than those for metalliferous minerals.

In all other respects the licences will be subject to the standard conditions as given in the Terms of 1st November, 1994. Renewal and expenditure requirements after the initial six years will be as for normal licences.

The following table sets out the reduced fees and minimum expenditure requirements that will apply under this scheme together with, for comparison, the standard fees and requirements.

FEES	Standard	Incentive Ground*	
		Open Ground	Open/Licensed Areas
	Euro	Euro	Euro
First 2 years	750	375	375
Second 2 years	875	375	375
Third 2 years	1,500	500	500
TOTAL	3,125	1,250	1,250
EXPENDITURE	Euro	Euro	Euro
First 2 years	10,000	2,500	2,500
Second 2 years	15,000	3,750	5,000
Third 2 years	20,000	5,000	10,000
TOTAL	45,000	11,250	17,500

• Mineral Prospects

The following prospecting licences containing identified prospects are available for application at any time.

Area 3577 (Kish Bank Basin, offshore Co. Wicklow): An offshore oil exploration well encountered a sequence of 26 separate coal seams in Upper Carboniferous (Westphalian) sediments. Seam thickness varies from less than 1 metre to 3.9 metres. Two zones with potential for significant reserves have been outlined: the Eastern Zone could contain shallow coal resources estimated at 170Mt, while the Western Zone contains perhaps 45Mt of coal resources. Details are published in the Geological Survey of Ireland Report Series RS 86/3.

Additional information is available through the Open File scheme (see page 36).

Ground Unavailable

Ground unavailable for application is differentiated on the accompanying map as follows:

- Current Prospecting Licences for certain minerals (pink), Mining Leases, Mining Licences and Mining Permissions (red). These are indicated by their reference number and relevant colour.
- Licences under application, **and which have been offered** to the applicant. These are indicated by their reference number and a brown colour.
- Licence areas which are currently not being made available for application. These are indicated by their reference number and an brown colour.
- Licences which had been available under earlier competition, and for which applications had been received prior to the closing date of the competition. These are indicated by their reference number and a peach colour.
- Excluded areas. These are areas which are not available for application at any time.

Application Procedures

While applications are invited for all categories of available ground, it should be appreciated that some areas may have been already applied for and that, as previously, applications are normally treated on a time-priority basis i.e. "first come, first served". Before making application for any open area or for open ground, therefore, prospective applicants may wish to consult with the Exploration and Mining Division to ascertain whether there have been prior applications for the area(s). If there has been a prior application, and if a licence has been offered to the first applicant, then the later interested party will be told that the ground is not available. If, however, the licence has not been offered to the first applicant, it will be open to the other party to apply for the ground. It should be clearly understood that, in accepting a second or subsequent application for an area, there is no implication that the Minister will regard a later application more favourably than an earlier one. Neither will the acceptance of an application for a Prospecting Licence create any obligation on the part of the Minister to grant any facilities.

When there is a valid Statement of Interest (see below) over ground that is being applied for, the applicant will be so notified (but no other details provided) and invited to revise their application if they wish to do so.

Applicants are reminded that, if more than one area is applied for, a priority listing of the applications is required; otherwise all applications will be regarded as having equal priority. If separate applications are made over a period of time, the priorities should also take account of any earlier applications. It should be noted that where expenditure proposals are above the minimum required (see p.3), these will be taken as the minimum expenditure commitment when the ground is offered to the successful applicant.

All applications for prospecting licences must be made to:-

The Secretary General
Department of Communications, Marine and Natural Resources
Exploration and Mining Division
Beggars Bush
Haddington Road
Dublin 4

on Form No. 1, accompanied by a **fee of €190.00 per Prospecting Licence area**. A copy of the form is provided at the end of this publication. Further copies are available from the above address, or photocopies of the form may be used. All payments must be in Euros, and cheques and bank drafts drawn on a bank branch located in the Republic of Ireland. All cheques and bank drafts should be made payable to "The Department of Communications, Marine and Natural Resources" and endorsed "Account payee only"

At the present time applicants can anticipate that the Prospecting Licence will be issued within four months of the application date (or closing date of the competition if the area sought is in competition), provided that they comply fully with application requirements, respond promptly to any queries and cause no delay in supplying a satisfactory insurance policy.

Statement of Interest

- **Introduction**

A company which has not reached the stage of making formal application for a Prospecting Licence may establish its interest in an area with the Exploration and Mining Division by written submission of a "Statement of Interest" on the standard form (see page 55). A Statement of Interest will normally relate to open ground or areas open for application at any time and for which the company intends to make a formal application following reconnaissance surveys. During the reconnaissance stage, only work of a regional nature may be carried out i.e. work which is designed to assist the company in the selection of areas for which application will be made.

A company which holds a current Prospecting Licence for certain minerals is deemed to have a standing Statement of Interest for all other minerals in that area. This Statement of Interest will remain valid for as long as the Prospecting Licence is held.

- **Entitlement**

In the event of there being, subsequently, a Prospecting Licence application for an area (or part of an area) held under the Statement of Interest, the company that holds the Statement of Interest will be notified that an application has been received. No other details will be provided. It will then be open to that company to apply for a Prospecting Licence over the area or part of the area covered by the Statement of Interest. **Application must be made within two weeks of notification.** Failure to reply by that date will be taken as a withdrawal of the Statement of Interest. If an application is made, the original applicant will be notified, and is entitled to submit a revised application. If the applications overlap, then they will be considered on their respective merits without regard to the fact that one application had been received prior to the other. It should be noted that more than one company may hold a Statement of Interest over a particular area; however, no action will be taken on these Statements of Interest until a formal application for a Prospecting Licence has been received.

- **Validity**

A Statement of Interest usually will remain valid only until publication of the following edition of the map showing areas held under State Mining and Prospecting facilities. This map is currently published on 1st May and 1st November each year. On publication of a new map the Statements of Interest will cease to be valid and may not be renewed unless exceptional circumstances are recognised by the Exploration and Mining Division and approved by prior agreement.

- **General**

On registering a Statement of Interest with the Exploration and Mining Division, the reasons for such interest should be given. If the interest is based on the fact that the company is carrying out reconnaissance work, the results of this work should be included with any subsequent Prospecting Licence application (in so far as the results would be relevant to the application). These results will be treated as confidential until such time as the company agrees otherwise, and will be used only to assist the Exploration and Mining Division in making a recommendation on competing applications.

Neither the acceptance by the Department of Communications, Marine and Natural Resources of an application for a Prospecting Licence (or other facility), nor the acceptance by the Exploration and Mining Division of a Statement of Interest should be regarded as in any way binding on the Minister. The Minister may at his discretion accept or reject any application for any State prospecting or development facility.

PROSPECTING LICENCE COMPETITION

Procedures

The Prospecting Licence (PL) Competitions are held every **three months**. The competition relates to licences that have been surrendered or terminated, or that have been offered but declined, in the previous three months. Interested parties have **two months** in which to apply for competition areas, with all applications received during that period deemed to have been received at the same time i.e. no time priority is given to applications received during those months. It should be noted that **no reduction in financial commitment** by aggregating expenditure from contiguous areas will be accepted for the first two year phase for any licence area awarded under competition.

The list of prospecting licences available for application under Competition will be published usually on the 1st February, 1st May, 1st August and 1st November of each year. Publications for the 1st May and the 1st November will continue to contain details of current licences, industry news, map of State Mining and Prospecting Areas, etc. The 1st February and 1st August publications are more limited. They consist of a list of prospecting licence areas that have become available for application under equal competition, together with details of how to apply, and a listing of prospecting licences issued or offered and advertised since the previous publication. They will not involve the production of a PL map and list of licences held, etc. Since full listings of area locations, status, revised map etc. are provided for the 1st May and 1st November competition publications, these should, therefore, be retained as a reference source for prospecting licence areas listed in the following interim competition.

Prospecting Licence Areas

These prospecting licence areas are open for application under equal competition until 30th June, 2003. There are two categories:

- Areas for which licences were current on the 10th January, 2003, but have become available in the period to 7th April, 2003, and areas that were offered but were subsequently declined in the same period. They are shown on the map in yellow.

1113	Offaly	3097	Tipperary	3699	Westmeath
1117	Westmeath	3232	Tipperary	3700	Tipperary/Waterford
1347	Westmeath	3358	Tipperary	3707	Tipperary/Waterford
1352	Westmeath	3359	Tipperary	3712	Tipperary/waterford
1753	Tipperary	3529	Westmeath	3827	Tipperary
2717	Tipperary	3618	Westmeath	3878	Tipperary
2718	Tipperary	3652	Westmeath		
2781	Tipperary	3698	Westmeath		

CURRENT STATE MINING AND PROSPECTING FACILITIES

State Mining Facilities

• Mining Leases

Ref:	Lessee	Issued	County	O.S. 6"	Valid To
M17	Joyces Marble Quarries	01.10.33	Galway	36	30.09.2032
M23	Flemings Fireclays Manufacturing Ltd.	01.03.35	Laois	25,31	29.02.2032
M30	Connemara Marble Products Ltd.	01.11.37	Galway	23	31.10.2034
M37	Flemings Fireclays Manufacturing Ltd.	14.11.40	Laois	31	13.11.2039
M79	Joyces Marble Quarries	01.12.57	Galway	36	30.11.2056
M100	Roadstone Provinces Ltd.	01.01.69	Kilkenny	20,24	31.12.2008
M115	Flynn & Lehany Coal Mines Ltd.	01.10.70	Roscommon	1,2	31.03.2043
M116	Tara Mines Ltd.	01.09.75	Meath	25	31.08.2010
M129	Irish Gypsum Ltd.	12.11.02	Monaghan Cavan	31,33,34 29, 35	11.11.2032
M137	Ormonde Brick Ltd.	31.01.97	Kilkenny	6	30.01.2012
M140	Minorco Lisheen Mining Ltd. Ivernia Lisheen Mining Ltd. Lisheen Milling Ltd.	07.10.97	Tipperary	36	06.10.2027

• Mining Permissions

None.

• Mining Licences

SML1	Arcon Mines Ltd.	03.02.95	Kilkenny	3,8	02.02.2016
SML2	Tara Mines	03.07.98	Meath	25	31.08.2010
SML3	Tara Mines	03.07.98	Meath	25	31.08.2010
SML4	Tara Mines	11.09.00	Meath	25	31.08.2010
SML6	Arcon Mines Ltd	29.08.02	Kilkenny	3,8	02.02.2016

Further details concerning the individual State Mining Facilities (minerals, consideration fees, etc.) are provided in the six monthly reports by the Minister for Communications, Marine and Natural Resources in accordance with the Minerals Development Acts, 1940-1999.

Prospecting Licences

All prospecting licences are restricted to certain minerals (for further details see p.26) and hence available for application for other minerals (although the current holder is deemed to have a standing Statement of Interest for all these other minerals). Highlighted licences are those that have been granted since 11th October, 2002.

PL No.	Licensee	Start	County	O.S. 6"
2	Navan Resources Plc.	30/06/97	Galway	107,108,117,118
4	Navan Resources Plc.	30/06/97	Galway	6,116,117,125
134	Navan Resources Plc.	29/02/00	Galway	98,106
184	Tara Mines Ltd.	20/01/95	Longford	14,19
185	Tara Mines Ltd.	15/10/99	Longford	18,19,22,23
382	Billiton Development BV	01/04/96	Westmeath	20
449	Noranda Exploration Ireland Ltd.	20/03/00	Limerick	22,23,31,32,40
450	Noranda Exploration Ireland Ltd.	20/03/00	Limerick	23,24,32,33
468	Asarco Exploration Inc.	29/07/02	Tipperary Limerick	65,66 41
480	Arcon International Resources Plc.	22/09/94	Offaly	7,14,15
481	Arcon International Resources Plc.	22/09/94	Offaly	14,15,22
505	Westland Exploration Ltd.	22/06/85	Westmeath	30,36
506	Westland Exploration Ltd.	22/06/85	Westmeath Offaly	30,35,36 6,7
541	Navan Resources Plc.	03/04/95	Galway	117,118,126,127
580	Tara Mines Ltd.	19/05/88	Longford	13,18
581	Tara Mines Ltd.	28/12/93	Longford	18,22
582	Arcon International Resources Plc.	19/06/91	Longford	22,23,26
586R	Arcon Exploration Plc.	26/10/81	Laois Kilkenny	28,33,34 3,8
600	Asarco Exploration Inc.	04/09/00	Kildare	17,22
626	Minco Ireland Ltd.	06/06/94	Tipperary	4,5,7,8
627	Minco Ireland Ltd.	06/06/94	Tipperary	7,8,10,11
635	Minco Ireland Ltd.	06/12/96	Limerick	13,14,22
636	Minco Ireland Ltd.	06/12/96	Limerick	6,13,14
643	Tara Mines Ltd.	20/04/95	Galway	106
649A	Minco Ireland Ltd.	26/07/82	Offaly	35
666	Tara Mines Ltd.	04/03/91	Longford	9,14,15,19,20
754	Arcon Exploration Plc.	20/02/87	Laois	27,28,33,34
767	Navan Resources Plc.	30/04/01	Galway	100,101,108
786	Tara Mines Ltd.	01/05/91	Limerick	21,30
1183	Tara Mines Ltd.	10/03/00	Wexford	34,39
1185	Tara Mines Ltd.	10/03/00	Wexford	35,40
1188	Tara Mines Ltd.	10/03/00	Wexford	31,35,36
1190	Tara Mines Ltd.	10/03/00	Wexford	25,31

PL No.	Licensee	Start	County	O.S. 6"
1191	Tara Mines Ltd.	10/03/00	Wexford	19,25,26,31,32
1192	Tara Mines Ltd.	10/03/00	Wexford	20,21,26,27,32
1193	Tara Mines Ltd.	10/03/00	Wexford	19,20,26
1194	Tara Mines Ltd.	10/03/00	Wexford	20,26
1196	Tara Mines Ltd.	10/03/00	Wexford	15,20
1197	Tara Mines Ltd.	10/03/00	Wexford	15,16,20,21
1198	Tara Mines Ltd.	10/03/00	Wexford	10,11,15,16
1199	Tara Mines Ltd.	10/03/00	Wexford	11,16
1200	Tara Mines Ltd.	10/03/00	Wexford	6,7,11,12,16,17
1201	Tara Mines Ltd.	10/03/00	Wexford	7,11,12,17
1226	Westland Exploration Ltd.	16/05/68	Westmeath	17,23,24,31
1228	Westland Exploration Ltd.	16/05/68	Westmeath	22,23,29,30
1229	Westland Exploration Ltd.	16/05/68	Westmeath	23,30,35,36
1245	Rio Tinto Finance & Exploration Plc.	13/05/91	Westmeath	9,14
1302	Tara Mines Ltd.	28/06/94	Limerick	29,37
1303	Noranda Exploration Ireland Ltd.	25/01/99	Limerick	36,37,44,45
1319	Navan Resources Plc.	10/05/95	Meath	14,15,22
1324	Tara Mines Ltd.	16/11/95	Meath	24,30,36
1341	Hereward Mining Plc.	16/10/97	Offaly	9,10,17,18
1342	Hereward Mining Plc.	16/10/97	Offaly	9,10,18
1343	Hereward Mining Plc.	16/10/97	Offaly	17,18
1344	Ballinalack Minerals Ltd.	28/04/69	Westmeath	2,5,6,11
1345	Ballinalack Minerals Ltd.	28/04/69	Westmeath	6,11,18
1346	Ballinalack Minerals Ltd.	28/04/69	Westmeath	6,11,18
1349	Navan Resources	04/11/97	Westmeath	3,4,7,8
1353	Ivernia West Plc./Rio Algom	18/04/00	Westmeath	18,19,25,26
1356	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	0,15,20
1357	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	0,15,20
1358	Arcon International Resources Plc.	17/08/81	Longford	22,23,26,27
1380R	Tara Mines Ltd.	31/12/70	Meath	24,25,30,31
1383	Navan Resources Plc.	24/05/95	Westmeath	2,6
1384	Navan Resources Plc.	24/05/95	Westmeath	1,2,3
1385	Navan Resources Plc.	24/05/95	Westmeath	2,3,6,7,12
1440R	Westland Exploration Ltd.	23/10/72	Meath	17,18,24,25
1450	Amcorp Ireland Ltd.	29/07/02	Dublin	3,6
			Meath	32,38,39,44,45
1453R	Mineral Estates (Ireland) Ltd	18/09/96	Meath	32,33,38,39
1454	Mineral Estates (Ireland) Ltd	18/09/96	Dublin	3,4
1476	Kenmare Resources Plc.	30/09/02	Carlow	14,17,18,20, 21
1477	Angus & Ross Plc.	27/10/99	Carlow	17,18,20,22
1489R	Tara Mines Ltd.	26/10/70	Meath	18,25,26,31
1496	Rennicks and Bennett Ltd.	16/08/71	Meath	17,18,24,25
1500	B.H.P. Minerals	14/12/95	Meath	41,42,47,48
1577	Central Mining Finance	28/02/96	Tipperary	41,47,48,53,54
1578	Central Mining Finance	28/02/96	Tipperary	41,42,47,48
1583	Tara Mines Ltd.	01/05/91	Limerick	11,12,20, 21,29,30
1584	Tara Mines Ltd.	28/06/94	Limerick	20,29,30,37,38

PL No.	Licensee	Start	County	O.S. 6"
1587	Navan Resources Plc.	14/12/95	Longford	10,11,15,16
1588	Tara Mines Ltd.	28/03/90	Longford	9,10,14,15
1597	Kenmare Resources Plc.	30/09/02	Carlow	24,25,26
1604	Arcon Exploration Plc.	22/06/98	Kildare	9,10,13,14
1607	Arcon Exploration Plc.	22/06/98	Kildare	12,17,18
1608	Asarco Exploration Inc.	06/04/01	Kildare	13,18,19
1624	Asarco Exploration Inc.	24/02/03	Offaly	26, 33, 34
1630	Asarco Exploration Inc.	14/08/96	Kildare	8,9,12
1640	Asarco Exploration Inc.	31/10/00	Laois	4,5,8,9
1652	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Laois	22,23,28,29
1653	Westland Exploration Ltd.	22/02/83	Laois	22,28,34
1661R	Tara Mines Ltd.	31/12/71	Meath	25
1764	Navan Resources Plc.	29/02/00	Galway	58,59,72
1797	Navan Resources Plc.	29/02/00	Galway	58,59,71,72
1798	Navan Resources Plc.	29/02/00	Galway	71,71,84,85
1813	Tara Mines Ltd.	10/03/00	Wexford	3,6,7,7A,7B,12
1870	Conroy Diamonds & Gold Plc.	10/04/97	Monaghan	14,15,19,20
1940	Noranda Exploration Ireland Ltd.	20/01/99	Cork	1,2,3
1942	Noranda Exploration Ireland Ltd.	14/01/99	Limerick	29,37
1943	Noranda Exploration Ireland Ltd.	20/11/00	Limerick	37,38,45
1946	Noranda Exploration Ireland Ltd.	20/01/99	Limerick	37,38,45,46
1947	Noranda Exploration Ireland Ltd.	25/02/99	Limerick	38,39,46,47
1948	Tara Mines Ltd.	11/07/02	Limerick	39,47
1949	Tara Mines Ltd.	27/05/87	Limerick	39,40,47,48,55
1979	Navan Resources Plc.	21/12/01	Galway	84,85,96,97
2016	Minco Ireland Ltd.	26/07/76	Offaly	35,38,38A,47
2069	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Tipperary	35,41
2092	Navan Resources Plc.	27/09/00	Galway	87,99
2093	Navan Resources Plc.	30/03/01	Galway	87,88,99,100
2096	Sabina Resources Ltd.	27/05/99	Galway	85,86,97,98
2097	Sabina Resources Ltd.	27/05/99	Galway	96,97,105
2100	Navan Resources Plc.	29/02/00	Galway	98,99,106,107
2103	Ivernia West Plc.	03/05/88	Roscommon	50,51,53,54,56
2105	Navan Resources Plc.	30/04/01	Roscommon	53,53A,54,56
2140	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	16,17,21,22
2193	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	0,19,20,24,25
2194	Conroy Diamonds & Gold Plc.	11/07/96	Monaghan	10,14
2218	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Laois	23,29
2254	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	0,9,10
2258	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Tipperary	29,30,35,36
2396	Aurum Exploration	13/01/03	Mayo	85, 86, 95, 96

PL No.	Licensee	Start	County	O.S. 6"
2447	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Tipperary	29,35,36,41
2448	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Tipperary	35,36,41,42
2512	Glencar Explorations Plc.	15/01/92	Laois	14,18,19
2522	Hereward Mining Plc.	16/10/97	Offaly	18,25,26
2529	Minco Ireland Ltd.	06/12/96	Limerick	14,15,23,24
2530	Minco Ireland Ltd.	13/11/95	Limerick	15,23,24
2531	Noranda Exploration Ireland Ltd.	20/03/00	Limerick	23,24,32
2551	Irish Marine Oil Plc.	01/03/94	Wexford	5,6,11
2554	Irish Marine Oil Plc.	05/12/94	Wexford	4,5,9,10
2558	Irish Marine Oil Plc.	05/12/94	Wicklow	46,47
2563	Ivernia West Plc./Rio Algom	21/08/96	Offaly	22,23,30,31
2564	Ivernia West Plc.	20/05/92	Tipperary	6,7,9,10
2579	BHP World Exploration Inc.	24/06/98	Limerick	11,20
2590	Billiton Ireland Resources	01/06/01	Clare	35,36,43,44
2594	Noranda Exploration Ireland Ltd.	20/11/00	Limerick	44,45,53
2627	Ivernia West/Anglo American	01/02/01	Laois	13,18
2638	Noranda Exploration Ireland Ltd.	20/03/00	Limerick	13,14,22,23,31
2654	Asarco Exploration Inc.	29/07/02	Tipperary	66,73
2670	Minco Ireland Limited	25/11/85	Offaly	35,36,38,39
2671R	Arcon Exploration Plc.	14/08/98	Offaly	30,31,35,36
2675	BHP Minerals	04/03/96	Westmeath	26,32,33,39
2676	BHP Minerals	04/03/96	Westmeath	26,32,33,39
2683	Conroy Diamonds & Gold Plc.	11/07/96	Monaghan	9,10,13,14
2685	Navan Resources Plc	30/06/97	Galway	100,107,108
2686	Navan Resources Plc	30/04/01	Galway	99,100,107,108
2687	Grovespan Ltd.	30/12/99	Galway	123,128,129,133,133A
2696	BHP World Exploration Inc.	24/06/98	Limerick	4,12
2702	Hereward Mining Plc.	16/10/97	Offaly	17,18,25,26
2742	Cranderry Ltd.	13/02/02	Louth	15,18
2760	Sabina Resources Ltd.	27/05/99	Galway	97,98,105,106
2774	Tara Mines Ltd.	17/09/97	Longford	1,10,15,16
2782	Hereward Mining Plc.	16/10/97	Offaly	16,17,24
2827	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	24,25,30,31
2835	BHP World Exploration Inc.	24/06/98	Limerick	4,11,12,20,21
2840	Arcon International Resources Plc.	19/12/86	Limerick Tipperary	24,25,32,33,33A 57
2845	Noranda Exploration	14/01/99	Limerick	28,36
2850	Noranda/Minco	17/07/01	Limerick	7,8,15
2852	Arcon Exploration Plc.	21/07/99	Tipperary	18,23,24,29
2859	Arcon International Resources Plc.	17/08/81	Offaly	31,32,36,37,39
2864	BHP Minerals	20/11/95	Offaly	8,9,17
2866	Hereward Mining Plc.	16/10/97	Westmeath	38,40
2895	Central Mining Finance	01/03/93	Clare	27,28,35,36

PL No.	Licensee	Start	County	O.S. 6"
2927	Noranda Exploration Ireland Ltd.	20/03/00	Limerick	13,22,31
2931	Angus & Ross Plc.	27/10/99	Carlow	13,17,20
2964	Cambridge Mineral Resources	30/08/96	Donegal	11,20,21
3007	Cambridge Mineral Resources	21/05/97	Donegal	5,12,13
3008	Cambridge Mineral Resources	06/08/99	Donegal	12,13,22
3027	Conroy Diamonds & Gold Plc.	26/08/98	Monaghan	19,24,25
3028	Conroy Diamonds & Gold Plc.	15/07/96	Monaghan	13,14,18,19
3056	Cambridge Mineral Resources	21/05/97	Donegal	1,4
3057	Cranderry Ltd.	29/07/02	Clare	41,42,50
3060	Cranderry Ltd.	13/02/02	Louth Meath	23,24 19,20
3062	Cambridge Mineral Resources	21/05/97	Donegal	11,12,20,21
3063	Cambridge Mineral Resources	04/10/99	Donegal	20,21,30,31
3065	Conroy Diamonds & Gold Plc.	26/08/98	Monaghan	12,13,17,18
3066	Conroy Diamonds & Gold Plc.	26/08/98	Monaghan	13,18
3068	Conroy Diamonds & Gold Plc.	27/09/00	Monaghan	17,18,22,23
3094	Cambridge Mineral Resources	06/08/99	Donegal	12,13,21,22
3115	Minco Ireland Limited	25/11/85	Offaly	35
3130	Conroy Diamonds & Gold Plc.	27/11/96	Cavan	21,25,26
3131	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	21,26
3152	Billiton Development BV	01/04/96	Westmeath	13,14,20,21
3156	Minco Ireland Ltd.	16/04/87	Tipperary	20,21,26,27
3158	Ivernia West Plc./ Minorco Lisheen Ltd.	07/05/96	Laois	17,18,23,24
3218	Amcorp Ireland Ltd.	29/07/02	Dublin	7,8,11,12
3219	Amcorp Ireland Ltd.	29/07/02	Dublin	4,5,7,8
3220	Mineral Estates (Ireland) Ltd	18/09/96	Dublin	4,5,8
3221	Mineral Estates (Ireland) Ltd	01/07/98	Dublin	1,2,4,5
3245R	Arcon Exploration Plc.	19/12/86	Kilkenny	3,7,8,12
3246	Tara Mines Ltd.	05/12/86	Tipperary	36,42,43,43A, 48,49
3249	Tara Mines Ltd.	27/05/87	Limerick	39,40,47,48,55
3261	Amcorp Ireland Ltd.	29/07/02	Meath	27,28,33,34
3262	Ivernia West Plc. & Anglo American Lisheen Mining	28/05/87	Tipperary	30,36,42
3264	Tara Mines Ltd.	10/03/00	Wexford	16,20,21,27
3268	Minco Ireland Ltd.	08/11/91	Limerick	15,16,24,25
3270	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	19,20,24,25
3312	Arcon Exploration Plc.	04/08/87	Laois	29,34,35
3313	Arcon Exploration Plc.	04/08/87	Kilkenny	3,8,9,12
3318	Minco Ireland Ltd.	19/05/87	Tipperary	40,41,46,47
3321	Central Mining Finance	28/02/96	Tipperary	42,48
3322	Ivernia West/Anglo American	01/02/01	Laois	7,8,12,13,17,18
3324	Rio Tinto Finance & Exploration Plc.	13/05/91	Westmeath	13,14,21
3332	Asarco Exploration Inc.	06/04/01	Kildare	13,14,18,19
3342	Noranda Exploration Irl. Ltd.	21/05/99	Limerick	15,16,24
3344	Noranda Exploration Irl. Ltd.	25/05/99	Limerick	6,14,15
3345	Ormonde Brick Limited	14/09/98	Kilkenny	6

PL No.	Licensee	Start	County	O.S. 6"
3346	Vulcanor Explorations Ltd.	16/09/96	Meath	23,24,29,30 35,36
3364	Tara Mines Ltd.	19/05/88	Longford	5,6,9,10
3366	Tara Mines Ltd.	27/04/88	Limerick	30,31,38
3367	Noranda Exploration Ireland Ltd.	20/03/00	Limerick	22,30,31,38,39
3368	Tara Mines Ltd.	27/04/88	Limerick	21,22,30,31
3369	Tara Mines Ltd.	27/04/88	Limerick	21,30,31
3373	Tara Mines Ltd.	01/03/93	Meath	11,16,17,23,24
3400	Conroy Diamonds & Gold Plc.	27/11/96	Cavan	25,26,31,32
3404	Tara Mines Ltd.	17/09/97	Kilkenny	1,8,9,12,13,17, 18
3407	Angus & Ross Plc.	27/10/99	Carlow	19,20,21,22,23
3410	Cranderry Ltd.	13/02/02	Meath	12,13,18,19
3411	Angus & Ross Plc.	27/10/99	Carlow	22,23,24,25
3413	Cranderry Ltd.	13/02/02	Louth	18,21,22,23,24
3414	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	30,31,37,38
3425	Minco Ireland Limited	05/03/93	Tipperary	14,20
3426	Ivernia West Plc./Rio Algom	18/11/97	Tipperary	6,9,10
3431	Noranda Exploration Ireland Ltd./Minco Ireland Ltd	23/03/00	Limerick	1,6,14
3459	Ivernia West Plc.	03/05/88	Galway	74,74A,87,88
3460	Ivernia West Plc.	03/05/88	Roscommon	51,52,54,55,56
3463	Tara Mines Ltd.	10/03/00	Wexford	39,40,44,45
3464	Tara Mines Ltd.	10/03/00	Wexford	34,35,39,40
3465	Tara Mines Ltd.	10/03/00	Wexford	30,34,35
3466	Tara Mines Ltd.	10/03/00	Wexford	30,31,35,36
3469	Conroy Diamonds & Gold Plc.	27/09/00	Monaghan	17,22
3475	Navan Resources Plc.	22/08/97	Offaly	1,21,29
3476	Tara Mines Ltd.	24/02/03	Tipperary	3, 4, 6, 7
3477	Navan Resources Plc.	22/08/97	Tipperary	1,3,4
3488	Tara Mines Ltd.	02/05/88	Limerick	11,19,20,28,29
3489	Tara Mines Ltd.	02/05/88	Limerick	11,20,29
3496	Cambridge Mineral Resources Plc.	30/08/96	Donegal	4,5,11,12
3507	Navan Resources Ltd.	29/04/02	Galway	108,108,118
3508	Central Mining Finance	16/11/98	Clare	43,51,52
3526	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	36,37,41
3530	Ivernia West Plc.	12/08/94	Westmeath	17,18,24,25
3545	Ovoca Resources Plc.	11/02/99	Limerick	19,28
3550	Noranda/Minco	30/04/01	Clare	53,54,63,64
3552	Asarco Exploration Inc.	29/07/02	Tipperary	58,66
3558	Cranderry Ltd.	13/02/02	Meath	12,13,18,19
3562	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	20,21,25,26
3563	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	15,26,20,21
3564	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	12,16,17,21
3569	Minco Ireland Ltd.	13/10/88	Tipperary	41,47
3581	Tara Mines Ltd.	29/07/02	Limerick	32,33,40,41
3582	Tara Mines Ltd.	29/07/02	Limerick	40,41,48,49
3583	Ivernia West Plc.	12/08/94	Westmeath	25,32
3588	BHP Minerals	04/03/96	Westmeath	31,32,37,38

PL No.	Licensee	Start	County	O.S. 6"
3589	BHP Minerals	04/03/96	Westmeath	32,38
3590	Tara Mines Ltd.	11/06/01	Wexford	7,12,17
3608	BHP World Exploration Inc.	24/06/98	Limerick	10,11,19,20
3615	Navan Resources Plc.	30/06/97	Galway	106,107,116, 117
3622	Tara Mines Ltd.	30/03/90	Meath	30,31,36,37
3633	Tara Mines Ltd.	03/06/93	Longford	8,9,13,14,18
3634	Tara Mines Ltd.	08/01/91	Longford	9,14
3638	Rio Tinto Finance & Exploration Plc.	13/05/91	Westmeath	8,9,13,14
3639	Rio Tinto Finance & Exploration Plc.	13/05/91	Westmeath	8,13
3640	Billiton Ireland Resources BV	15/11/99	Clare	34,42
3641	Billiton Ireland Resources BV	15/11/99	Clare	41,42,50,51
3642	Billiton Ireland Resources BV	18/07/00	Clare	42,51,61
3643	Central Mining Finance	25/05/99	Clare	34,35,42,43, 51,52
3644	Cranderry Ltd	29/07/02	Clare	50,51,60,61
3647	Minco Ireland Ltd.	08/11/91	Tipperary Limerick	50,51, 25
3650	Noranda Exploration Ireland Ltd.	25/01/99	Limerick	35,36,43,44
3651	Noranda Exploration	20/11/00	Limerick	44,45,53,54
3653	BHP Minerals	20/11/94	Westmeath	37,38,40
3660	Navan Resources Plc.	10/05/95	Meath	15,16,22,23
3662	Glencar Mining Plc.	27/08/98	Laois	13,18
3664	Amcorp Ireland Ltd.	29/07/02	Dublin	3,4,6,7
3665	Amcorp Ireland Ltd.	29/07/02	Dublin	6,7
3667	Ivernia West Plc. & Anglo American Lisheen Mining.	28/07/91	Laois	28,29,34,35
3668	Minco Ireland Limited	20/01/92	Tipperary Offaly	14,16,20,21 44
3670	Ivernia West Plc./Rio Algom	18/11/97	Tipperary	3,4,6,9
3678	Minco Ireland Limited	11/03/92	Tipperary	9,10,14,15
3679	Clare Calcite Ltd.	27/10/91	Clare	34,42
3688	Ivernia West Plc./ Minorco Lisheen Ltd.	09/01/97	Laois	29,30,35
3689	Asarco Exploration Inc.	29/04/02	Tipperary	70,77
3692	Grovespan Ltd.	30/12/99	Galway	114,122,123, 129
3701	Cranderry Ltd.	13/02/02	Louth	15,16,17,18
3722	Minco/Pine Point - Westland/Getty	05/10/92	Westmeath	29
3729	Central Mining Finance	01/03/93	Clare	19,20,27,28
3782	Fractor Pty.	11/07/02	Tipperary	58,59,66,67
3785	Tara Mines Ltd.	07/03/94	Tipperary	48,54
3787	Central Mining Finance	08/06/94	Clare	26,27,33,34,42
3788	Central Mining Finance	08/06/94	Clare	19,26,27,34,35
3789	Central Mining Finance	08/06/94	Clare	35,43
3807	Noranda/Minco	30/04/01	Limerick Tipperary	1 31,37

PL No.	Licensee	Start	County	O.S. 6"
3814	Ivernia West Plc.	12/08/94	Offaly	6,7,14,15
3820	Cambridge Mineral Resources	04/10/99	Donegal	20,30,31
3822	Tara Mines Ltd.	10/03/00	Wexford	25,30,31
3839	Navan Resources Plc./	10/05/95	Meath	15,16,23
3840	Tara Mines Ltd.	20/04/95	Galway	98,105,106
3846	Asarco Exploration Inc.	04/09/96	Kildare	11,12,13,16,17
3849	Jadebay Ltd	16/06/98	Wicklow	30,31,35, 36,40
3850	Jadebay Ltd	16/06/98	Wicklow	30,35,40
3851	Tara Mines Ltd.	30/04/01	Meath	17,23,24,30
3852	Vulcanor Explorations Ltd.	16/09/96	Meath	23,29,35
3853	Asarco Exploration Inc.	31/10/00	Laois	4,8,13
3854	Asarco Exploration Inc.	31/10/00	Offaly	26,27,33,34
3856	Cambridge Mineral Resources Plc.	30/08/96	Donegal	2,3,4,5
3858	Ovoca Resources Plc.	17/01/97	Limerick	27,28,35,36,43
3859	Ovoca Resources Plc.	17/01/97	Limerick	27,28,36
3860	E. A. Hogan	18/06/97	Cork	72,73,84,85
3861	Navan Resources Plc.	22/08/97	Galway	117,118
3862	Navan Resources Plc.	30/06/97	Galway	106,107
3863	Central Mining Finance	21/05/97	Clare	18,19,24,26
3866	Asarco Exploration Inc.	18/06/97	Kildare	12,16,17,21,22
3868	Hereward Mining Plc.	16/10/97	Offaly	17,24,25
3869	Conroy Diamonds & Gold Plc.	26/08/98	Monaghan	18,19,23,24
3870	Conroy Diamonds & Gold Plc.	26/08/98	Monaghan	25,28
3871	Conroy Diamonds & Gold Plc.	26/08/98	Monaghan	24,25,27,28
3875	Amcorp Ireland Ltd.	29/07/02	Meath	27,33
3891	Liam M. Brophy/Peter Kealy	27/09/99	Laois	37
3893	Angus & Ross Plc.	27/10/99	Carlow	16,17,19,20,22
3894	Angus & Ross Plc.	27/10/99	Carlow	19,22,23,24
3895	Angus & Ross Plc.	27/10/99	Wexford	8,9,13,14
3896	Angus & Ross Plc.	27/10/99	Wexford	9,13,14,18,19
3908	Noranda/Minco	17/07/01	Limerick	5,6,13,14
3909	Cranderry Ltd	13/02/02	Meath	12,13,17,18,25
3910	Cranderry Ltd.	13/02/02	Meath	20,21,27,28
3911	Cranderry Ltd.	13/02/02	Louth	18,20,21
3912	Tara Mines Ltd.	19/04/02	Meath	25
3913	Navan Resources Plc.	29/04/02	Galway	100,101,108, 109
3914	Navan Resources Plc.	29/04/02	Galway	100,101,109
3920	Asarco Exploration Inc.	24/02/03	Offaly	18, 19, 26, 27

INDUSTRY NEWS

The continued low price of zinc has resulted in a major reduction in grassroots exploration, with activity largely restricted to known prospects and in the vicinity of mine sites. In response to the downturn, significant concessions for Prospecting Licence holders were announced last year by the Minister of State in the Department of Communications, Marine and Natural Resources, Mr. John Browne T.D. These included a once-off under-expenditure moratorium and a cap on minimum expenditure requirements. On the industry side, **Outokumpu-Tara Mines** had resumed production at their Navan mine in September 2002, **Arcon** announced details of the best mineralised drill intersection ever achieved at Galmoy (and included an estimated tonnage for the newly-discovered R Zone), while **Minco** and **Noranda** continued to meet with encouragement at their base metal prospect near Pallas Green, Co. Limerick. The recent gold price rise has also caused renewed interest in gold exploration. **Conroy Diamonds and Gold** announced further intersections of gold mineralization at the Tullybuck-Lisglassan deposit in Co. Monaghan, and fifteen Prospecting Licences have been recommended to another company for gold exploration in Co. Donegal. We are also pleased to note that the Irish exploration scene has been boosted by the addition of three new entrants, **Cranderry Ltd**, a junior Irish company, **Fractore Pty**, a junior Australian exploration company, and **Tournigan Gold Corporation**, a Canadian exploration company.

Development

- **Galmoy (Zn, Pb)**

During 2002, **Arcon Mines Ltd.** milled 660,000t of ore grading 10.1% Zn and 2.8% Pb at their underground zinc-lead mine at Galmoy, Co. Kilkenny. This yielded 102,000t of zinc concentrate (53.1% Zn) and 2,500t of lead concentrate (48.3% Pb). Total production to end 2002 amounts to 3.1Mt of ore milled at 10.6% Zn and 1.11% Pb. At the end of December 2002 ore reserves were 3.3Mt at 11.0% Zn and 2.1% Pb.

In March 2003, Arcon announced a resource estimate and the fourth set of results from their near-mine drilling programme. The new mineralized zone (the R Zone) is estimated to contain an Indicated Resource of 2.0Mt grading 20.6% Zn, 8.1% Pb and 75g/t Ag. The R Zone lies approximately 125 metres southeast of the CW South orebody. It has an average thickness of 9m, compared with the average thickness of the CW orebody of 5.6m, and the resource zinc grade is approximately double that of the average grade of the CW ore. Arcon state that the resource "...doubles the mine's contained metal content and will extend the mine's life into the next decade." (Arcon Press Release, 6th March 2003).

- **Lisheen (Zn, Pb)**

The underground zinc-lead Lisheen Mine in Co. Tipperary is a 50:50 joint venture between **Anglo American** and **Ivernia West**, and is operated by Anglo American. During 2002 the mine milled 1.56Mt of ore at 11.15% Zn and 2.07% Pb. This produced 281,000t of zinc concentrate at 54.5% Zn and 36,000t of lead concentrate at 62% Pb.

Total production since mining commenced in 1999 is 3.57Mt at 11.34% Zn and 2.55% Pb. Reserves at end December 2002 stood at 12.8Mt at 11.26% Zn and 1.96% Pb, with additional Resources of 2.32Mt at 9.86% Zn and 1.23% Pb..

- **Navan (Zn, Pb)**

The Navan mine of **Outokumpu Tara Mines Limited** is Europe's largest zinc concentrate producer. Current production capacity is 200,000t of zinc in concentrates annually, and this will rise to 240,000t in 2004. The concentrates are exported mainly to European smelters, and the mine employs some 650 people. During 2002 (Sept-Dec) the mine milled 755,000t of ore grading 7.02% Zn and 1.57% Pb. This yielded 89,000t of zinc concentrate (55.12% Zn) and 13,000t of lead concentrate (63.31% Pb).

Since mining commenced in 1977, total production amounts to 55.2Mt at 8.35% Zn and 2.06% Pb. Reserves at 31st December 2002 were as follows: Ore Reserves (Proven and Probable), 11.9Mt at 9.18% Zn, 2.07% Pb; Mineral Resources (Measured, Indicated and Inferred), 17.4Mt at 7.1% Zn, 2.3% Pb. These figures include the Main Mine and the South West Extension (SWEX) only.

Knocknacran (Gypsum)

Gypsum has been continuously mined near Kingscourt, Co. Cavan since 1936, with a 2002 production figure of some 400,000t from **Irish Gypsum's** opencast mine at Knocknacran. The company has announced its intention to apply for Planning Permission during 2003 for a new underground gypsum mine within the area of its current State Mining Lease.

Exploration

- **General**

Very little base metal exploration has been carried out during the past six months, primarily due to the historically low price of zinc. The exception has been in near-mine exploration. There has also been something of a resurgence in gold exploration, attributable to the rise in the price of that metal.

- **Company Activities**

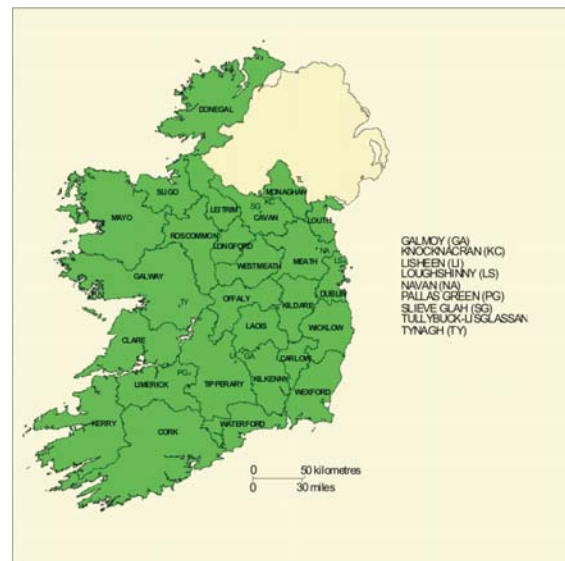
During 2002, **Arcon Exploration Plc** carried out exploration on 16 Prospecting Licences. Six of these, including a Licence in which Arcon is in joint venture with Westland Exploration Ltd (a subsidiary of Ennex International), comprise a contiguous block around the Galmoy Mine. Following the successful debt restructuring of the parent company (**Arcon International Resources Plc**) and a rights issue, drilling recommenced in August under a policy of concentrating on areas surrounding the mine.

One of the first tested areas was a gravity high, southeast of the CW South Zone of the mine. The first hole, 3245-99, intersected 10.71m of zinc/lead mineralization running 19.51% Zn and 3.65% Pb at 130m depth, and many of the subsequent 21 published resource-grade holes have intersected even higher grade mineralization in what has been named the R Zone. The

best intersection to date (31.27m at 31.85% Zn, 9.37% Pb) is, in terms of contained metal, the best intersection of Waulsortian Limestone Formation-hosted mineralization recorded in Ireland. Recently Arcon announced an estimated resource for the R Zone (see **Development** above).

Asarco Exploration Company Inc. (a subsidiary of **Grupo Mexico**) currently holds 15 Prospecting Licences over Carboniferous plays in the east and south Irish midlands. Changes in company structure over the past number of years, coupled with market realities, have resulted in significantly reduced budgets. Despite this, Asarco has retained a positive programme in Ireland with some encouraging results in Co. Kildare. In 2002 Asarco was granted three Prospecting Licences in Cos Tipperary and Limerick. Interest in this area results from the occurrence of significant disseminated Zn and Pb mineralization in Waulsortian lithologies associated with faulting, delineated with the aid of detailed gravity and aeromagnetic surveys.

Aurum Exploration Ltd was incorporated in May 2002 by the Irish-based technical staff of Navan Mining Ltd, following the cessation of that company's exploration activities and withdrawal from Ireland. Aurum currently operate as both a mineral exploration service and mineral exploration company. Aurum has acquired proprietary rights to all Navan's Irish assets, including extensive drillhole, geochemical and geophysical databases. In addition, the company continues to manage Navan's remaining interests in their joint venture with Tara Mines Ltd in Ireland (mostly in the Tynagh area), and is contracted to operate the Licences currently held under this joint venture agreement (47% Navan, 53% Tara), for which results to date have been encouraging. Aurum currently hold eight Prospecting Licences in Ireland for base and precious metals.



County Map of Ireland showing locations mentioned in the text.

Conroy Diamonds and Gold Plc's gold-dominated exploration programme in the Republic of Ireland is focused on the Lower Palaeozoic Longford-Down Massif where drilling has identified three separate gold plays. Also, at Slieve Glah in Co. Cavan, a recent detailed soil geochemistry programme has defined a number of extensive gold anomalies. Trenching to bedrock is planned in these areas.

The exploration focus of **Minco** for all of 2002 was on their 13 licence area block in the Pallas Green area, Co Limerick. Together with their 75% partner, **Noranda**, Minco drilled 13 holes for a total of 3500m. Considerable encouragement was derived from this exploration, with the discovery of a new and extensive mineralized zone 12km west of Castlegarde, where two high-grade massive sulphide lenses had been previously discovered

by Minco and Noranda. Ten drill holes have outlined a zone of mineralization, with variable, low-grade zinc and lead values, over a strike length of 5km. Minco regards the Pallas Green area as one of the best zinc targets in Ireland. However, most of the 25km strike remains unexplored by drilling and the rest has only been drill-tested by widely spaced, isolated holes. Minco are actively seeking partners to continue drilling.

Mineral Estates (Ireland) Limited's Loughshinny project consists of four contiguous licences in north County Dublin and east County Meath. The licence group covers the southern and eastern part of the Lower Palaeozoic Balbriggan Block and the northern margin of the Carboniferous Dublin Basin. The Licences straddle a major growth fault that forms the northern boundary of the Dublin Basin proper. Diamond drilling of the main prospect has shown the presence of replacement-style base metal mineralization, in a geological sequence considered to be similar to that at Navan. The best intersections are 4.3m at 2.09% Zn+Pb at 170m depth (including 0.35m at 10.55% Zn +Pb) and, in a separate hole, 2.5m at 1.86% Zn+Pb at 28m depth. The company believe that this prospect has the potential to host a significant base metal deposit, and that a very considerable area remains to be drill-tested. Extensive stratigraphic drilling in conjunction with detailed magnetic surveys has also demonstrated the presence of at least two other target zones, which appear to be of substantial size potential. Preliminary diamond drilling of these has shown that the Navan-equivalent sequence, if preserved, is likely to be at a depth in excess of 600 metres in each prospect. The company is presently seeking a partner to fund further exploration.

Joint Venture Opportunities

In March 2003, Exploration and Mining Division produced a leaflet entitled *Mineral Exploration in Ireland: Joint Venture Opportunities*. The leaflet contains information on 14 different properties where the licensees are looking for joint venture partners. Eight different companies are offering properties, and the minerals under offer include Base Metals, Gold and Diamonds. Copies of the leaflet are available free of charge from Department of Communications, Marine and Natural Resources, Exploration and Mining Division, Beggars Bush, Haddington Road, Dublin 4. Or, e-mail us at EMDTechnical.info@dcmnr.gov.ie.

Prospecting Licence Information

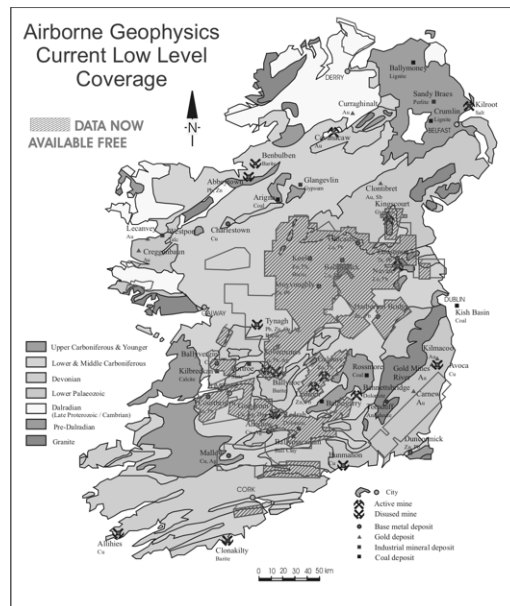
During the past six months, four new Prospecting Licences (PLs) were issued, while over the same period 42 PLs were surrendered; the number of licences currently held is 330.

Asarco Exploration were granted two licences in Co. Offaly, both for base metals, barytes and silver. **Tara Mines** received one PL in Co. Tipperary for base metals, barytes and silver. **Aurum Exploration** were awarded a Licence in Co. Mayo for gold and silver.

New Initiatives

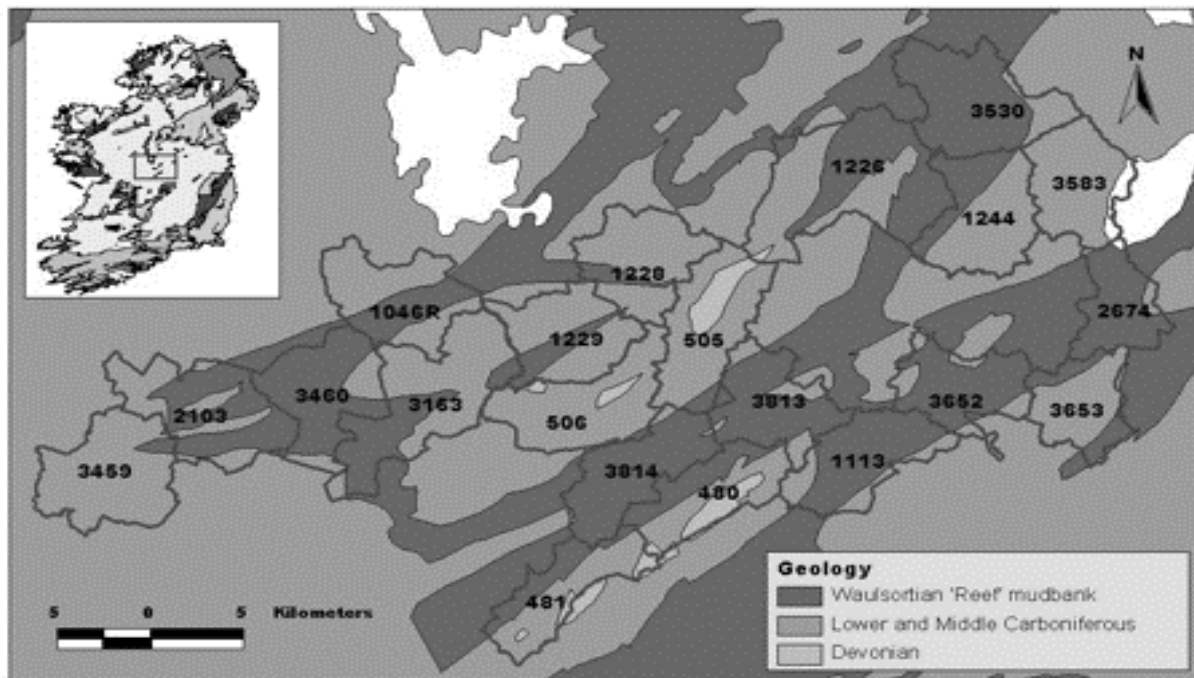
The Exploration and Mining Division (EMD) is engaged in four significant complementary initiatives designed to encourage exploration. The common approach is to provide, **free of charge and in digital format**, all non-confidential data that is available through the Division, and to provide added value when the opportunity arises. The latest of these, the Airborne Magnetic Interpretation Initiative, was started in late 2002.

Airborne Data Release Initiative 2001. Since 1995 low level high resolution geophysical surveys have been flown over 58 areas by various companies under the EMD ‘open skies’ policy. Some 35% of the country, largely prospective Lower Carboniferous terrain, has been covered. All data are lodged with EMD, and once the four-year confidentiality period has expired, are being made progressively available to the public. The first survey was released in June 2001 and, to date, over 70% of the coverage has been made available **free** on CD (see Figure). Each release includes digital databases, grids and maps. Additional maps generated by EMD are also included.



Current coverage and availability of low level airborne geophysical surveys

Exploration Data Release 2002. Until recently, the only company exploration reports available to the public were from exploration ground that had been surrendered. Under this initiative, all reports over six years old from currently held Prospecting Licence areas will now be made available, providing a wealth of previously unavailable information **free of charge**. The initial phase is focused on long-held areas that comprise a third of the current holdings, with a further block just released on CD (see Figure). All reports, drill logs and

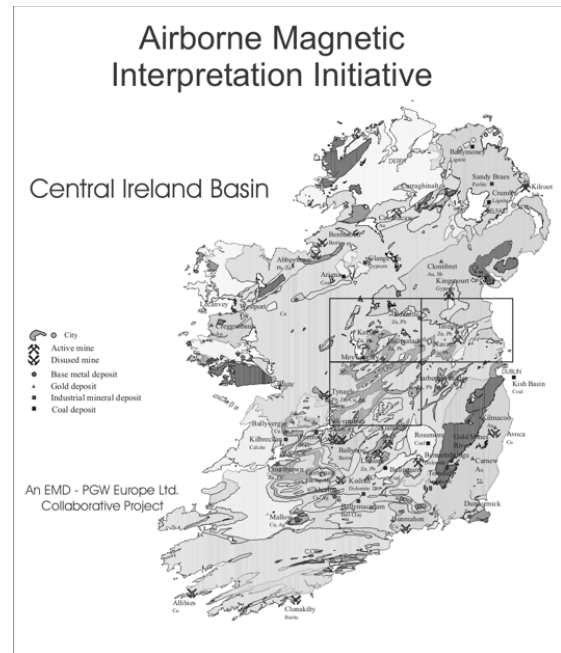


Map showing the latest prospecting licence areas for which exploration data has been released under the Exploration Data Release Initiative

maps are in digital format. Reports from areas surrendered since January 2000 are also being made available digitally in a similar manner

Airborne Magnetic Interpretation Initiative. In late 2002, EMD agreed a Public-Private Partnership (PPP) Programme with PGW Europe Ltd., to process and interpret the newly released airborne magnetic data covering the highly prospective Central Basin region of Ireland. Three blocks are involved (see Figure), the first of which will be available free on CD in May 2003. The objectives of the Initiative are twofold, (a) to interpret the basement structure, tectonic framework and lithology from the airborne geophysical results, and (b) to correlate and combine these results with the known geology of central Ireland to aid identification of potential exploration targets for base metal mineralization. The Interpretation Initiative involves the application of improved processing techniques and cultural source removal from the total magnetic field. In order to enhance the signatures of the basement structures and lithological units, as well as volcanics lying above the older basement, a number of processed images derived from the total magnetic field will be produced. Geophysical interpretation maps of the geology of the Central Basin, processed magnetic maps (Pole Reduced

First Vertical Derivative) and a report including the details of the magnetic datasets and processing techniques, as well as a discussion of basement structures and lithology will also be produced, together with an assessment of the known mineralization.



Map showing areas covered by the Airborne Magnetics Interpretation Initiative.

The MAPS Initiative. The MAPS (Minerals Administration Programme Support) Initiative is an ambitious major project designed to provide industry globally with all the necessary information and available background data to assess ground and handle the business requirements of exploration permitting through the Internet. The project was initiated in December 2001, and it is scheduled to be completed in late 2003. The key elements of the Initiative are streamlining internal processes and automated regulatory procedures, leading to quicker permitting, e-Enabled business, with free web access to all the data being released under the other Initiatives. All geographically-based data (licence areas, base maps, environmentally restricted areas, forestry coverage, basic geology, airborne and ground exploration maps etc.) will all be available in GIS format. The first phase can now be seen online at www.emd.ie. This provides an e-Business facility for applying for Prospecting Licences, regulatory information, a range of GIS datasets that include ground status, and limited exploration company data. The site will be progressively upgraded, and the content

range expanded under the project. In doing so we would welcome customer feedback and any proposals for improvement. The Initiative is committed to establishing Ireland at the forefront internationally in terms of offering maximum ease of access to full information availability and business transactions.

PDAC Convention 2003, Toronto

The 71st Annual Convention and Trade Show of the Prospectors and Developers Association of Canada (PDAC) was held in Toronto from 9th to 12th March 2003. The Exploration and Mining Division was again represented at the Trade Show, where we were joined by our colleagues from the Northern Ireland Department of Enterprise, Trade and Investment and the Geological Survey of Northern Ireland, in a combined *Ireland* exhibit.

Website

The Department of Communications, Marine and Natural Resources website, www.dcmnr.gov.ie has recently been updated, and includes useful information on the Exploration and Mining Division. The Exploration and Mining Division also has its own IP address at www.emd.ie. We invite you to visit the sites and to let us know how we can be of further help to you. As outlined above, our recent Initiatives will result in substantial improvements over the next months.

APPENDICES

- **Current Prospecting Licences restricted to certain minerals**
- **Open File Prospecting Licence Data**
- **Addresses of Companies holding State Facilities**
- **Application Forms**

CURRENT PROSPECTING LICENCES RESTRICTED TO CERTAIN MINERALS

PL No.	Licensee	Limited to:
2	Navan Resources	Base metals, barytes and silver
4	Navan Resources	Base metals, barytes and silver
134	Navan Resources	Base metals, barytes and silver
184	Tara Mines Ltd.	Base metals, barytes and silver
185	Tara Mines Ltd.	Base metals, barytes and silver
382	Billiton Development BV	Base metals, barytes and silver
449	Noranda Exploration Ireland Ltd	Base metals, barytes and silver
450	Noranda Exploration Ireland Ltd	Base metals, barytes and silver
468	Asarco Exploration Inc.	Base metals, barytes and silver
480	Arcon International Resources Plc.	Base metals, barytes and silver
481	Arcon International Resources Plc.	Base metals, barytes and silver
505	Westland Exploration Ltd.	Base metals, barytes and silver
506	Westland Exploration Ltd.	Base metals, barytes and silver
541	Navan Resources Plc.	Base metals, barytes, silver and gold
580	Tara Mines Ltd.	Base metals, barytes and silver
581	Tara Mines Ltd.	Base metals, barytes and silver
582	Arcon International Resources Plc.	Base metals, barytes and silver
586R	Arcon Exploration Plc.	Base metals, barytes, silver and gold
600	Asarco Exploration Inc.	Base metals, barytes and silver
626	Minco Ireland Ltd.	Base metals, barytes and silver
627	Minco Ireland Ltd.	Base metals, barytes and silver
635	Minco Ireland Ltd.	Base metals, barytes and silver
636	Minco Ireland Ltd.	Base metals, barytes and silver
643	Tara Mines Ltd.	Base metals, barytes, silver and gold
649A	Minco Ireland Ltd.	Base metals, barytes and silver
666	Tara Mines Ltd.	Base metals, barytes and silver
754	Arcon Exploration Plc.	Base metals, barytes and silver
767	Navan Resources Plc.	Base metals, barytes and silver
786	Tara Mines Ltd.	Base metals, barytes and silver
1183	Tara Mines Ltd	Base metals, barytes, silver and gold
1185	Tara Mines Ltd	Base metals, barytes, silver and gold
1188	Tara Mines Ltd	Base metals, barytes, silver and gold
1190	Tara Mines Ltd	Base metals, barytes, silver and gold
1191	Tara Mines Ltd	Base metals, barytes, silver and gold
1192	Tara Mines Ltd	Base metals, barytes, silver and gold
1193	Tara Mines Ltd	Base metals, barytes, silver and gold
1194	Tara Mines Ltd	Base metals, barytes, silver and gold
1196	Tara Mines Ltd	Base metals, barytes, silver and gold
1197	Tara Mines Ltd	Base metals, barytes, silver and gold
1198	Tara Mines Ltd	Base metals, barytes, silver and gold
1199	Tara Mines Ltd	Base metals, barytes, silver and gold
1200	Tara Mines Ltd	Base metals, barytes, silver and gold
1201	Tara Mines Ltd	Base metals, barytes, silver and gold
1226	Westland Exploration Ltd.	Base metals, barytes and silver
1228	Westland Exploration Ltd.	Base metals, barytes and silver
1229	Westland Exploration Ltd.	Base metals, barytes and silver

PL No.	Licensee	Limited to:
1245	Rio Tinto Finance & Exploration Plc.	Base metals, barytes and silver
1302	Tara Mines Ltd.	Base metals, barytes and silver
1303	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
1319	Navan Resources Plc.	Base metals, barytes, silver and gold
1324	Tara Mines Ltd.	Base metals, barytes and silver
1341	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
1342	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
1343	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
1344	Ballinalack Minerals Ltd.	Base metals, barytes and silver
1345	Ballinalack Minerals Ltd.	Base metals, barytes and silver
1346	Ballinalack Minerals Ltd.	Base metals, barytes and silver
1349	Navan Resources	Base metals, barytes, silver gold and diamonds
1353	Ivernia West Plc./Rio Algom	Base metals, barytes and silver
1356	Conroy Diamonds and Gold Plc.	Base metals, barytes, silver, gold and antimony
1357	Conroy Diamonds and Gold Plc.	Base metals, barytes, silver, gold and antimony
1358	Arcon International Resources	Base metals, barytes and silver
1378	Ivernia West Plc.	Base metals, barytes and silver
1380R	Tara Mines Ltd.	Base metals, barytes, silver and gold
1383	Navan Resources Plc.	Base metals, barytes and silver
1384	Navan Resources Plc.	Base metals, barytes, silver and gold
1385	Navan Resources Plc.	Base metals, barytes and silver
1440R	Westland Exploration Ltd.	Base metals, barytes and silver
1450	Amcorp Ireland Ltd.	Base metals, barytes and silver
1453R	Mineral Estates (Ireland) Ltd.	Base metals, barytes, silver and gold
1454	Mineral Estates (Ireland) Ltd.	Base metals, barytes, silver and gold
1476	Kenmare Resources Plc.	Caesium, lithium, tin, tantalum and tungsten
1477	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
1489R	Tara Mines Ltd.	Base metals, barytes, silver and gold
1496	Rennicks & Bennett Ltd.	Base metals, barytes and silver
1500	BHP Minerals	Base metals, barytes, silver, gold and iron
1577	Central Mining Finance	Base metals, barytes, silver and calcite
1578	Central Mining Finance	Base metals, barytes silver and calcite
1583	Tara Mines Ltd.	Base metals, barytes and silver
1584	Tara Mines Ltd.	Base metals, barytes and silver
1587	Navan Resources Plc.	Base metals, barytes, silver and gold
1588	Tara Mines Ltd.	Base metals, barytes and silver
1597	Kenmare Resources Plc.	Caesium, lithium, tin, tantalum and tungsten
1604	Arcon Exploration Plc.	Base metals, barytes, silver and gold

PL No.	Licensee	Limited to:
1607	Arcon Exploration Plc.	Base metals, barytes, silver and gold
1608	Asarco Exploration Inc.	Base metals, barytes and silver
1624	Asarco Exploration Inc.	Base metals, barytes, silver and iron
1630	Asarco Exploration Inc.	Base metals, barytes and silver
1640	Asarco Exploration Inc.	Base metals, barytes and silver
1652	Ivernia West Plc./Anglo American Lisheen Mining	Base metals, barytes and silver
1653	Westland Exploration Ltd.	Base metals, barytes and silver
1661R	Tara Mines Ltd.	Base metals, barytes, silver and gold
1764	Navan Resources Plc.	Base metals, barytes and silver
1797	Navan Resources Plc	Base metals, barytes and silver
1798	Navan Resources Plc	Base metals, barytes and silver
1813	Tara Mines Ltd	Base metals, barytes, silver and gold
1870	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
1940	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
1942	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
1943	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
1946	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
1947	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
1948	Tara Mines Ltd.	Base metals, barytes, silver and gold
1949	Tara Mines Ltd.	Base metals, barytes and silver
1979	Navan Resources Plc.	Base metals, barytes and silver
2016	Minco Ireland Ltd.	Base metals, barytes and silver
2069	Ivernia West Plc./Anglo American Lisheen Mining	Base metals, barytes and silver
2092	Navan Resources Plc.	Base metals, barytes and silver
2093	Navan Resources Plc.	Base metals, barytes and silver
2096	Sabina Resources Ltd.	Base metals, barytes and silver
2097	Sabina Resources Ltd.	Base metals, barytes and silver
2100	Navan Resources Plc.	Base metals, barytes and silver
2103	Ivernia West Plc.	Base metals, barytes and silver
2105	Navan Resources Plc.	Base metals, barytes and silver
2140	Conroy Diamonds & Gold Plc.	Base metals, barytes silver and gold
2193	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
2194	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
2218	Ivernia West Plc./Anglo American Lisheen	Base metals, barytes and silver
2254	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
2258	Ivernia West Plc./Anglo American Lisheen Mining	Base metals, barytes and silver
2396	Aurum Exploration	Gold and silver
2447	Ivernia West Plc./Anglo American Lisheen Mining	Base metals, barytes and silver
2448	Ivernia West Plc./Anglo American Lisheen Mining	Base metals, barytes and silver
2512	Glencar Explorations Plc.	Base metals, barytes and silver
2522	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
2529	Minco Ireland Ltd.	Base metals, barytes and silver

PL No.	Licensee	Limited to:
2530	Minco Ireland Ltd.	Base metals, barytes and silver
2531	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
2551	Irish Marine Oil Plc.	Gold
2554	Irish Marine Oil Plc.	Gold
2558	Irish Marine Oil Plc.	Gold
2563	Ivernia West Plc./Rio Algom	Base metals, barytes and silver
2564	Ivernia West Plc.	Base metals, barytes, silver and gold
2579	BHP World Exploration Inc.	Base metals, barytes, silver and gold
2590	Billiton Ireland Resources	Base metals, barytes, silver, gold, calcite and fluorite
2594	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
2627	Ivernia West/Anglo American	Base metals, barytes and silver
2638	Noranda Exploration Ireland Ltd	Base metals, barytes and silver
2654	Asarco Exploration Inc.	Base metals, barytes and silver
2670	Minco Ireland	Base metals, barytes and silver
2671R	Arcon Exploration Plc.	Base metals, barytes and silver
2675	BHP Minerals	Zinc, copper, lead, silver, gold barium and iron
2676	BHP Minerals	Zinc, copper, lead, silver, gold barium and iron
2683	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
2685	Navan Resources Plc	Base metals, barytes and silver
2686	Navan Resources Plc	Base metals, barytes and silver
2687	Grovespan Ltd.	Base metals, barytes and silver
2696	BHP World Exploration Inc.	Base metals, barytes, silver and gold
2702	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
2742	Cranderry Ltd.	Base metals, barytes, silver and gold
2760	Sabina Resources Ltd.	Base metals, barytes and silver
2774	Tara Mines Ltd.	Base metals, barytes and silver
2782	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
2786	Ivernia West Plc./Rio Algom	Base metals, barytes and silver
2827	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
2835	BHP World Exploration Inc.	Base metals, barytes, silver and gold
2840	Arcon International Resources	Base metals, barytes, silver and gold
2845	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
2850	Noranda/Minco	Base metals, barytes and silver
2852	Arcon International Resources	Base metals, barytes and silver
2859	Arcon International Resources	Base metals, barytes and silver
2864	BHP Minerals	Base metals, barytes, silver and gold
2866	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
2895	Central Mining Finance	Base metals, barytes and silver
2927	Noranda Exploration Ireland Ltd	Base metals, barytes and silver
2931	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
2964	Cambridge Mineral Resources Plc.	Gem Minerals
3007	Cambridge Mineral Resources	Gem Minerals
3008	Cambridge Mineral Resources	Gem Minerals

PL No.	Licensee	Limited to:
3027	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
3028	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3056	Cambridge Mineral Resources	Gem Minerals
3057	Cranderry Ltd.	Base metals, barytes, silver and gold
3060	Cranderry Ltd.	Base metals, barytes, silver and gold
3062	Cambridge Mineral Resources Plc.	Gem Minerals
3063	Cambridge Mineral Resources	Gem Minerals
3065	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
3066	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
3068	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3094	Cambridge Mineral Resources	Gem Minerals
3115	Minco Ireland	Base metals, barytes and silver
3130	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3131	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3152	Billiton Development BV	Base metals, barytes and silver
3156	Minco Ireland Ltd.	Base metals, barytes and silver
3158	Ivernia West Plc. & Minorco Lisheen Ltd.	Base metals, barytes and silver
3218	Amcorp Ireland Ltd.	Base metals, barytes and silver
3219	Amcorp Ireland Ltd.	Base metals, barytes and silver
3220	Mineral Estates (Ireland) Ltd.	Base metals, barytes, silver and gold
3221	Mineral Estates (Ireland) Ltd.	Base metals, barytes, silver and gold
3245R	Arcon Exploration Plc.	Base metals, barytes, silver and gold
3246	Tara Mines Ltd	Base metals, barytes and silver
3249	Tara Mines Ltd.	Base metals, barytes and silver
3261	Amcorp Ireland Ltd.	Base metals, barytes and silver
3262	Ivernia West Plc./Anglo American Lisheen Mining	Base metals, barytes and silver
3264	Tara Mines Ltd	Base metals, barytes, silver and gold
3268	Minco Ireland Ltd.	Base Metals, barytes and silver
3270	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3312	Arcon Exploration Plc.	Base metals, barytes and silver
3313	Arcon Exploration Plc.	Base metals, barytes and silver
3318	Minco Ireland Ltd.	Base metals, barytes and silver
3321	Central Mining Finance	Base metals, barytes, silver and calcite
3322	Ivernia West/Anglo American	Base metals, barytes and silver
3324	Rio Tinto Finance & Exploration Plc.	Base metals, barytes and silver
3332	Asarco Exploration Inc.	Base metals, barytes and silver
3342	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
3344	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
3345	Ormonde Brick Limited	Coal and fireclay
3346	Vulcanor Explorations Ltd.	Base metals, barytes and silver
3364	Tara Mines Ltd.	Base metals, barytes, silver and gold
3366	Tara Mines Ltd.	Base metals, barytes and silver
3367	Noranda Exploration Ireland Ltd	Base metals, barytes and silver
3368	Tara Mines Ltd.	Base metals, barytes and silver

PL No.	Licensee	Limited to:
3369	Tara Mines Ltd.	Base metals, barytes and silver
3373	Tara Mines Ltd.	Base metals, barytes and silver
3400	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3404	Tara Mines Ltd.	Base metals, barytes and silver
3407	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
3410	Cranderry Ltd.	Base metals, barytes, silver and gold
3411	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
3413	Cranderry Ltd.	Base metals, barytes, silver and gold
3414	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3425	Minco Ireland Ltd.	Base metals, barytes and silver
3426	Ivernia West Plc./Rio Algom	Base metals, barytes and silver
3431	Noranda Exploration Ireland Ltd	Base metals, barytes and silver
3459	Ivernia West Plc.	Base metals, barytes and silver
3460	Ivernia West Plc.	Base metals, barytes and silver
3463	Tara Mines Ltd	Base metals, barytes, silver and gold
3464	Tara Mines Ltd	Base metals, barytes, silver and gold
3465	Tara Mines Ltd	Base metals, barytes, silver and gold
3466	Tara Mines Ltd	Base metals, barytes, silver and gold
3469	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver and gold
3475	Navan Resources Plc.	Base metals, barytes and silver
3476	Tara Mines Ltd.	Base metals, barytes and silver
3477	Navan Resources Plc.	Base metals, barytes and silver
3488	Tara Mines Ltd.	Base metals, barytes and silver
3489	Tara Mines Ltd.	Base metals, barytes and silver
3496	Cambridge Mineral Resources Plc.	Gem Minerals
3507	Navan Resources Plc.	Base metals, barytes and silver
3508	Central Mining Finance	Base metals, barytes, silver, calcite and flourite
3526	Conroy Diamonds and Gold Plc.	Base metals, barytes, silver and gold
3530	Ivernia West Plc.	Base metals, barytes and silver
3545	Ovoca Resources Plc.	Base metals, barytes and silver
3550	Noranda/Minco	Base metals, barytes and silver
3552	Asarco Exploration Inc.	Base metals, barytes and silver
3558	Cranderry Ltd.	Base metals, barytes, silver and gold
3562	Conroy Diamonds and Gold Plc.	Base metals, barytes, silver and gold
3563	Conroy Diamonds and Gold Plc.	Base metals, barytes, silver and gold
3564	Conroy Diamonds and Gold Plc.	Base metals, barytes, silver and gold
3569	Minco Ireland Ltd.	Base metals, barytes and silver
3581	Tara Mines Ltd.	Base metals, barytes, silver and gold
3582	Tara Mines Ltd.	Base metals, barytes, silver and gold
3583	Ivernia West Plc.	Base metals, barytes and silver
3588	BHP Minerals	Zinc, copper, lead, silver, gold, barytes and iron
3589	BHP Minerals	Zinc, copper, lead, silver, gold, barytes and iron
3590	Tara Mines Ltd.	Base metals, barytes, silver and gold
3608	BHP World Exploration Inc.	Base metals, barytes, silver and gold
3615	Navan Resources	Base metals, barytes and silver
3622	Tara Mines Ltd.	Base metals, barytes and silver

PL No.	Licensee	Limited to:
3633	Tara Mines Ltd.	Base metals, barytes and silver
3634	Tara Mines Ltd.	Base metals, barytes and silver
3638	Rio Tinto Finance & Exploration Ltd.	Base metals, barytes and silver
3639	Rio Tinto Finance & Exploration Ltd.	Base metals, barytes and silver
3640	Billiton Ireland Resources BV	Base metals, barytes, silver, calcite, flourite and gold
3641	Billiton Ireland Resources BV	Base metals, barytes, silver, calcite, flourite and gold
3642	Billiton Ireland Resources BV	Base metals, barytes, silver, gold, calcite and fluorite
3643	Central Mining Finance	Base metals, barytes and silver
3644	Cranderry Ltd.	Base metals, barytes, silver and gold
3647	Minco Ireland Ltd.	Base metals, barytes and silver
3650	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
3651	Noranda Exploration Ireland Ltd.	Base metals, barytes and silver
3653	BHP Minerals	Base metals, barytes, silver and gold
3660	Navan Resources Plc.	Base metals, barytes, silver and gold
3662	Glencar Mining Plc.	Base metals, barytes and silver
3664	Amcorp Ireland Ltd.	Base metals, barytes and silver
3665	Amcorp Ireland Ltd.	Base metals, barytes and silver
3667	Ivernia West Plc./ Anglo American Lisheen Mining	Base metals, barytes and silver
3668	Minco Ireland Ltd.	Base metals, barytes and silver
3670	Ivernia West Plc./Rio Algom	Base metals, barytes and silver
3678	Minco Ireland Ltd.	Base metals, barytes and silver
3679	Clare Calcite Ltd.	Calcite
3688	Ivernia West Plc. & Minorco Lisheen Mining	Base metals, barytes and silver
3689	Asarco Exploration Inc.	Base metals, barytes and silver
3692	Grovespan Ltd.	Base metals, barytes and silver
3701	Cranderry Ltd.	Base metals, barytes, silver and gold
3722	Minco/Pine Point - Westland/Getty	Base metals, barytes and silver
3727	Minco Ireland Ltd.	Base metals, barytes and silver
3729	Central Mining Finance	Base metals, barytes and silver
3782	Fractor Pty.	Base metals, barytes and silver
3785	Tara Mines Ltd.	Base metals, barytes and silver
3787	Central Mining Finance	Base metals, barytes and silver
3788	Central Mining Finance	Base metals, barytes and silver
3788	Central Mining Finance	Calcite and fluorite
3789	Central Mining Finance	Base metals, barytes and silver
3807	Noranda/Minco	Base metals, barytes and silver
3814	Ivernia West Plc.	Base metals, barytes and silver
3820	Cambridge Mineral Resources	Gem Minerals
3822	Tara Mines Ltd	Base metals, barytes, silver and gold
3839	Navan Resources Plc.	Base metals, barytes, silver and gold
3840	Tara Mines Ltd.	Base metals, barytes, silver and gold
3846	Asarco Exploration Inc.	Base metals, barytes and silver
3849	Jadebay Ltd.	Base metals, barytes, silver and talc

PL No.	Licensee	Limited to
3850	Jadebay Ltd.	Base metals, barytes, silver and gold
3851	Tara Mines Ltd.	Base metals, barytes and silver
3852	Vulcanor Explorations Ltd.	Base metals, barytes and silver
3853	Asarco Exploration Inc.	Base metals, barytes and silver
3854	Asarco Exploration Inc.	Base metals, barytes and silver
3856	Cambridge Mineral Resources Plc.	Gem Minerals
3858	Ovoca Resources Plc.	Base metals, barytes and silver
3859	Ovoca Resources Plc.	Base metals, barytes and silver
3860	Edward Anthony Hogan	Base metals, barytes and silver
3861	Navan Resources Plc.	Base metals, barytes and silver
3862	Navan Resources	Base metals, barytes and silver
3863	Central Mining Finance	Base metals, barytes, silver, calcite and fluorite
3864	Moville Minerals Ltd.	Tantalum, tin, niobium, lithium and cesium
3866	Asarco Exploration Inc.	Base metals, barytes and silver
3868	Hereward Mining Plc.	Base metals, barytes, silver and gemstones
3869	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
3870	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
3871	Conroy Diamonds & Gold Plc.	Base metals, barytes, silver, gold and antimony
3875	Amcorp Ireland Ltd.	Base metals, barytes and silver
3891	Liam M. Brophy and Peter Kealy	Coal and fireclay
3893	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
3894	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
3895	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
3896	Angus & Ross Plc.	Caesium, lithium, niobium, tin, tantalum and tungsten
3908	Noranda/Minco	Base metals, barytes and silver
3909	Cranderry Ltd.	Base metals, barytes, silver and gold
3910	Cranderry Ltd.	Base metals, barytes, silver and gold
3911	Cranderry Ltd.	Base metals, barytes, silver and gold
3912	Tara Mines Ltd.	Base metals, barytes and silver
3913	Navan Resources Plc.	Base metals, barytes and silver
3914	Navan Resources Plc.	Base metals, barytes and silver
3920	Asarco Exploration Inc.	Base metals, barytes, silver and iron

OPEN FILE PROSPECTING LICENCE DATA

Viewing the Open File

Open file data consists of non-confidential company reports on work done on surrendered Prospecting Licences. This data is available for viewing by members of the public from the Geological Survey of Ireland (GSI), Department of Communications, Marine and Natural Resources, Beggars Bush, Haddington Road, Dublin 4, and also from the Exploration and Mining Division (only for data released from 1st January, 2000). The following arrangements currently apply:

- Appointments to view data may be made by telephone.
- The following charges are made for access to non-confidential exploration data :
€31.74 for the first box and €12.70 for each additional box. A handling charge of €6.35 per telephone request for photocopying items from the Open File (accompanied by suitable confirmation e.g. letter or fax).
- Photocopies of items are supplied at cost. Currently the charges are: A0 €6.35; A1 €5.00; A2 €3.17; A3 €0.31; A4 €0.19

For appointments or further information, please contact either the **Geological Survey**, Ms I. Hogan of the Minerals Section, Tel: 01-6782571, Fax 01-6041430, or the **Exploration and Mining Division** (Ms. M. Flavin, Tel: 01-6782671, Fax: 01-6609627).

Catalogue of Open File Data

The Geological Survey is offering for sale copies of the 'Catalogue of Exploration Company Open File Data'. The catalogue lists all of the approximately 65,000 individual items (reports, maps, sections, drill logs) which are currently held in the open file system. Also included as a separate volume is a copy of the 'Prospecting Licence Number Index'. The Index lists all Prospecting Licence numbers generated in the licensing system, their previous numbers (if any) and gives the location within the Catalogue of all open-file data relevant to each licence number. The index and the catalogue allow an interested party to see what information is available for a given area. The catalogue and index of material on Open File is now available digitally (€127). Additions or amendments to the Catalogue and Index will be available at cost to purchasers. Purchasers will be required to sign a declaration stating that the Catalogue and Index are for their own use and will not be further reproduced except for internal company purposes.

Compilation of Open File Data

The Geological Survey may, upon request and agreeing of terms, compile Open File exploration data on a contract basis for individual companies or consortia. For further information please contact Mr. G. Stanley (Tel: 01-6782863).

Data Availability

- **Additions from surrendered Prospecting Licences since 1st November, 2002**

An asterisk indicates that the licence area extends into a neighbouring county.

Donegal

3063

3820

Offaly

1178

*2757

2758

3432

Longford

622

667

Tipperary

3904

Meath

1177

Westmeath

619

*2757

• **Consolidated List**

An asterisk indicates that the licence area extends into a neighbouring county.

Co. Carlow		Co. Cork	2998
	3623		3010
1476	3624	1392	3011
1477	3632*	1554	3012
1537		1780	3013
1597	Co. Clare	1786	3014
2404		1940	3033
2832	11*	2008	3046
2930	742	2024	3047
2931	1951	2033	3049
3407	1952	2048	3050
3411	2317	2260	3107
3710*	2414	2280	3108
3711	2415	2381	3187
	2571	2392	3202
Co. Cavan	2590	2393	3203
	2688	2394	3204
1051	2892	2395	3228
1052	2895	2437	3229
1135	2896	2439	3230
1136	2945	2442	3231
1140	3005	2444	3293*
1142	3116	2484	3294
1695	3225	2485	3295
1696	3351	2487	3328
1697	3501	2597	3338
2139	3502	2599	3365
2140	3503	2601	3435
2579*	3504	2637	3535
2827	3508	2708	3536
2965	3509	2713	3537
2966	3550	2730	3538
2966	3640	2732	3586
2988	3641	2740	3587
3130	3642	2812	3605
3131	3643	2813	3612
3269	3644	2814	3619
3270	3679	2815	3620
3277	3728	2899	3656
3400	3729	2901	3671
3414	3780	2902	3702
3526	3788	2946	3716
3539	3789	2947	3717
3540	3806	2948	3718
3563	3808	2949	3723
3564	3809	2953	3733
3566	3810	2967	3741
3572		2983	3801

3805	2992	3326	1235
3823	3007	3327	1362
	3008	3361	1364
Co. Donegal	3020	3371	1375
	3021	3372	1376
1414	3022	3496	1382
2072	3023	3543	1430
2073	3024	3557	1431
2083	3025	3820	1432
2084R	3026	3855	1677
2085	3035		1700
2086	3036	Co. Dublin	1704
2087	3037		1762
2088	3038	1450*	1764
2089	3039	1454	1768
2110	3040	2697	1788
2111	3055	2710*	1789
2112	3056	2968	1790
2115	3062	3045	1791
2116	3063	3139	1794
2118	3069	3143	1795
2246R	3070	3157	1796
2290	3071	3218	1797
2349	3072	3219	1798
2351	3073	3220	1799
2354	3074	3221	1800
2357	3078	3284	1958
2358	3079	3433*	1959
2359	3088	3664	1960
2545	3089	3665	1979
2546	3090	3821	1980
2547	3091	3865*	1982
2548R	3092		1983
2795	3093	Co. Galway	2090
2796	3094		2091
2798	3095	2	2092
2799	3118	4	2093
2800	3119	15	2094
2801	3120	16	2095
2802	3121	134	2096
2803	3122	483	2097
2804	3123	497	2098
2810	3128	541	2099
2811	3132	643	2100
2816	3133	766	2245
2817	3134	767	2295
2818	3135	769	2296
2819	3136	930	2297
2960	3153	934	2301
2961	3233	939	2302
2962	3236	952	2318
2964	3314	1102	2449
2991	3315	1105	2450

2451	3226	2586	1631
2452	3227	2777	1632
2520	3251	2869	2062*
2521	3280	2871	2513
2526	3307	2933	2514
2532	3310	2934	2516
2533	3311	2935	2518
2569	3362	2954	2822
2570*	3428	2974	2823
2583	3429	3016	2824
2584	3459	3076	2830
2585	3470	3077	2831
2646	3471	3281	2834
2647	3479	3370	3247*
2685	3480	3490	3329
2686	3481	3492	3330
2687	3482	3493	3331
2689*	3505	3494	3332
2695	3506	3495	3374
2700	3507	3554	3375
2721	3567	3742	3427
2724	3578	3755	3433*
2734	3615	3756	3434
2760	3637*	3757	3547
2761	3680	3758	3549
2848	3681	3783	3610
2885	3692	3834	3614
2886	3742	3835	3636
2887	3743	3836	3649
2888	3755	3837	3684
2889	3756	3838	3784
2932	3757	3847	3792
2938	3758		3793
2939	3781*	Co. Kildare	3794
2940	3818		3795
2941	3840	631	3796
2942	3881	724	3865*
2943	3882	726	
2959	3883	862	Co. Kilkenny
2965	3884	863	
3043	3885	1316	586*
3052	3886	1317	1814
3080	3897	1318	1815
3081	3898	1602	1913
3101		1604	2031
3140	Co. Kerry	1605	2820
3141		1606	2821
3144	1911	1607	2958
3145	2029	1608	2996
3166	2030	1632	3105
3167	2214	1610*	3113
3169	2270	1629	3165
3170	2312	1630	3195

3211	2217	3673	3368
3213	2218		3369
3214	2219	Co. Limerick	3431
3215	2320		3457
3216	2321	427	3488
3242	2322	449	3489
3250	2474	450	3544
3325*	2476	468*	3545
3345	2512	635	3546
3352	2623	636	3581
3353	2624	786	3582
3354	2625	1302	3608
3355	2627	1303	3650
3357	2747	1457	3651
3360*	2748	1583	3654
3404	3009	1584	3661
3409	3147	1943	3705*
3520	3158	1945	3807*
3521	3160	1946	3824
3522	3239	1947	
3523	3263	1948	
3524	3322	1949	Co. Longford
3525	3356	2289	
3547	3357*	2529	186
3549	3416	2530	580
3559	3458	2531	581
3560	3533	2579	582
3645*	3542	2594	622
3693	3674	2638	666
3694	3675	2696	667
3695	3736*	2756	1358
3696*	3853	2762	1586
3708		2835	1587
3709	Co. Leitrim	2840*	1588
3736*		2845	1801
3737	563	2850	1802
3738	879*	2872	1803
3739	1469	2873*	2664
3740	1668	2927	2698
3832	1670	2989	2774
	1672	3199	2775
Co. Laois	1673	3249	2780
	1674	3267	2989
586*	1675	3268	3363
754	2334	3279	3364
1639	2440	3293*	3527
1640	2776	3308	3628
1641	2881	3309	3629
1646	2993	3342	3630
1650	3086	3343	3633
1652	3162	3344	3634
1653	3568*	3366	
1654	3585	3367	

Co. Louth	2401	3390	1338
	2495	3391	1339
676	2496	3392	1439
1040	2497	3393	1440
1552	2498	3394	1450*
1553	2499	3395	1451R
2201	2500	3419	1452
2271	2501	3420	1453R
2742	2502	3423	1489
3053	2503	3424	1500
3276	2504	3467	1600
3278	2505	3510	1601
3408	2506	3514	1991
3413	2507	3515	1993
3701	2508	3761*	1995
3730	2610	3764	2021
3841	2640	3765	2063
3842	2641	3766	2778
3843	2643	3767	2779
	2644	3768	2791
Co. Mayo	2645	3769	2836
	2875	3770	2837
234	2879	3771	2882
547	2880	3772	2883
663	2908	3773	2884
743	2909	3774	2928
1022	2910	3790	3060*
1028	2911	3791	3184
1029	2912	3811	3260
1030	2915	3812	3261
1031	2976	3876	3300
1032	3052*	3887	3301
1035	3125		3341
1530	3126	Co. Meath	3346
1531	3127		3347
1562	3148	727	3373
1679	3149	875	3410
1804R	3150	1039	3558
1805	3151	1053	3609
1806	3173	1171	3611
1810	3176	1174	3621
1811	3182	1177	3622
1812	3240	1319	3632*
2137	3253	1322	3635
2225	3255	1323	3636
2226	3257	1324	3660
2229	3258	1325	3721
2306	3303	1327	3731
2319	3304	1328	3732
2396	3337	1331	3819
2397	3378	1332	3825
2398	3379	1333	3839
2399	3389	1334	3851

3873	1377	Co. Roscommon	3751
3874	1378		3752
3875	1505*	561*	3753
	1624	562	3754
	1625	1046R	3759
	1626	1310	3760
	1628	1663	3761
	1919	1665	3762
Co. Monaghan	2016	1667	3763
	2019	1680	3781*
1356	2323	1899	3848
1357	2522	1905	3879
1870	2536	2101	
2023*	2537	2102	Co. Sligo
2193	2538	2103	
2194	2560	2105	561*
2254	2561	2329	757
2416	2563	2330	1435
2579*	2663	2523	1564
2661	2669	2524	1565
2665	2670	2613	1580
2677	2671	2651	1660
2678	2701	2652	1688
2679	2702	2653	1689
2680	2757*	2666	1690
2681	2758	2705	2489
2682	2759	2766	2490
2683	2781	2767	2491
2828	2782	2768	2493
3027	2786	2769	2772*
3028	2859	2772*	2784
3066	2860	2784	2870
3068	2861	2787	2916
3209	2864	2788	2917
3469	3115	2981	2921
	3129	2982	2923
Co. Offaly	3159	3059	3099
	3266	3163	3380
480	3273	3248	3381
481	3283	3436	3382
594*	3302	3474	3383
607	3417	3561	3384
608	3418	3568*	3385
649A	3432	3637*	3386
890	3475*	3685	3387
1108	3648	3686	3388
1110	3652*	3744	3396
1111	3814	3745	3430
1113	3854	3746	3666
1178		3747	3734
1341		3748	3735
1342		3749	
1343		3750	

Co.	3320	3704	3713
Tipperary	3321	3705*	3714
	3358	3706	3715
72	3359	3707*	3719
73	3360*	3708*	3720
74	3401	3712*	3724
350	3402	3727	3815
468*	3403	3782	3816
605	3421	3786	
627	3425	3826	Co.
1575	3426	3827	Westmeath
1577	3439	3844	
1578	3440	3845	382
1753	3441	3892	505
2018	3445	3904	506*
2026	3447	Co.	619
2027	3448	Waterford	1043
2068	3451		1044
2069	3452	405	1179
2258	3453	735	1181
2286	3454	1554	1244
2326	3455	1555	1245
2447	3456	1556	1347
2448	3475*	1786	1349
2471*	3476	1966	1351
2564	3477	1967	1352
2567	3497	1985	1353
2568	3498	1986	1383
2604	3499	1987	1384
2607	3551	1988	1385
2621	3552	1989	1387
2622	3553	1990	1388
2654	3569	2035	1406
2655	3573	2036	1505
2657	3617	2752	2674
2717	3618	2754	2675
2718	3645*	3190	2676
2839	3646	3191	2757*
2844	3647*	3192	2866
2852	3667	3193	3152
3032	3668*	3201	3232
3082	3669	3205	3324
3097	3670	3206	3405
3156	3677	3207	3406
3161	3678	3208	3528
3164	3689	3323	3529
3185	3690*	3518	3530
3188	3696*	3519	3531
3189	3697*	3570	3575
3316	3698	3571	3576
3317	3699	3574	3583
3318	3700*	3690*	3588
3319	3703	3707*	3589

3638	3197	3286
3639	3198	3289
3652*	3237	3291
3653	3264	3292
3655	3274	3334
3658	3275	3335
3659	3296	3437
3675	3297	3468
3676	3298	3565
3813	3299	3676
	3412R	3795
Co. Wexford	3463	3798
	3464	3799
1183	3465	3849
1184	3466	3850
1185	3483	3864
1186	3484	
1187	3595	
1188	3597	
1190	3663	
1191	3822	
1192		
1193	Co. Wicklow	
1194		
1196	415	
1197	1473	
1198	1474	
1199	1475	
1200	1545*	
1201	1546	
1539	1715	
1541	1716	
1542	1864	
1813	2239	
2053	2240	
2236	2241	
2237	2255	
2238	2421	
2267	2426	
2268	2429	
2543	2430	
2544	2432	
2551	2470	
2552	2558	
2553	3029	
2554	3030	
2555	3114	
2556	3137	
2557	3138	
3001	3210	
3031	3265	
3155	3272	
3196	3285	

ADDRESSES OF COMPANIES HOLDING STATE FACILITIES

Prospecting Licences

Albannach Ltd.

Adrigole
Beara
Co. Cork

Asarco Exploration Plc.

c/o Crowe Schaffalitzky and Associates Ltd.
Units 6 + 7
Dundrum Business Park
Windy Arbour
Dublin 14

Amcorp Ireland Ltd.

Unit 10B
Loughboy Industrial Estate
Kilkenny

Ballinalack Minerals Limited

c/o Ivernia West Plc.
97 Henry Street
Limerick

Anglo American Lisheen Mining Ltd

Lisheen Mine
Killoran
Moyne
Thurles
Co. Tipperary

BHP-Billiton Ltd

2300-1111 West Georgia Street
Vancouver BC
Canada V1E 4M6

Angus & Ross Plc

Grenna
Chapel Row
Ightham
Kent TN15 9AQ
England

BHP World Exploration Inc.

Minerals Discovery
2300-1111 West Georgia Street
Vancouver BC
Canada V1E 4M6

Arcon Exploration Plc.

The Old Schoolhouse
Galmoy
Co. Kilkenny

Liam Brophy & Peter Kealy

Fairymount
Crettyard
Co. Carlow

Arcon International Resources Plc.

60 Merrion Road
Ballsbridge
Dublin 4

Cambridge Mineral Resources Plc.

Simmonds House
Simmonds Buildings
Bristol Road, Hambrook
Bristol BS16 1RY
England

Central Mining Finance
7 Hobart Place
London SW1W 0HH
England

Clare Calcite Ltd.
Ardraccon Glebe
Navan
Co. Meath

Conroy Diamonds and Gold Plc.
10 Upper Pembroke Street
Dublin 2

Dalmin Resources Ltd.
17 Castle Street
Dalkey
Co. Dublin

Getty Mining (Irl) Ltd.
162 Clontarf Road
Dublin 3

Glencar Mining Plc.
26 Upper Mount Street
Dublin 2

Grovespan Ltd.
103 Rathfarnham Wood
Dublin 14

Hereward Mining Plc.
c/o Hereward Ventures Plc.
Simmonds House
Simmonds Buildings
Bristol Road, Hambrook
Bristol BS16 1RY
England

Edward Hogan
Hogan's Pass
Nenagh
Co. Tipperary

Irish Marine Oil Plc.
162 Clontarf Road
Dublin 3

Ivernia West Plc.
Ivernia Hall
97 Henry Street
Limerick

Jadebay Ltd
c/o Strongbow Resources Inc.
Suite 900, 475 Howe Street
Vancouver BC
V6C 2B3
Canada

Kenmare Resources Plc.
Chatham House
Chatham Street
Dublin 2

Mid-West Prospecting Ltd.
c/o Patrick F. Treacy
29 Pearse Street
Nenagh
Co. Tipperary

Minco Ireland Ltd.
c/o Fitzpatrick Morris Barrett
Chartered Accountants
74 Pembroke Road
Dublin 4

Mineral Estates (Ireland) Ltd.
c/o W. A. Exploration Services Pty Ltd
22 Montes Square
Riverton
Western Australia 6148
Australia

Moville Minerals Ltd.

Float Station House
Lismacafferey
Co. Westmeath

Rio Algom Exploration Inc.

c/o BHP-Billiton
2300-1111 West Georgia Street
Vancouver BC
Canada V1E 4M6

Navan Resources Plc.

Raferys Bungalow
Cagerlivene
Loughrea
Co. Galway

Rio Tinto Finance & Exploration Plc.

P.O. Box 695
Castlemead - 7th Floor
Lower Castle Street
Bristol BS99 1FS
England

Noranda Exploration Ireland Ltd.

2 Canon Row
Navan
Co. Meath

Sabina Resources Ltd

55 Westchester Drive
London
Ontario N6G 2K6
Canada

Ormonde Brick Ltd.

Castlecomer
Co. Kilkenny

Shallee Exploration (Ireland) Ltd.

c/o Westland Exploration Ltd.
11 Mespil Road
Dublin 4

Ovoca Resources Plc.

Adrigole
Beara
Co. Cork

Tara Mines Ltd.

Knockumber House
Knockumber
Navan
Co. Meath

Rennicks and Bennett Ltd.

26 Upper Mount Street
Dublin 2

Vulcanor Exploration Plc

27 Eustace Street
Temple Bar
Dublin 2

Westland Exploration Ltd.

11 Mespil Road
Dublin 4

Mining Facilities

Anglo American Lisheen Mining Ltd.

The Lisheen Mine
Killoran, Moyne
Thurles
Co. Tipperary

Ivernia Lisheen Mining Ltd.

Ivernia Hall
97 Henry Street
Limerick

Arcon Mines Ltd.

60 Merrion Road
Ballsbridge
Dublin 4

Joyces Marble Quarries Ltd.

Lissoughter
Recess
Connemara
Co. Galway

Connemara Marble Products Ltd.

Moycullen
Co. Galway

Lisheen Milling Ltd.

41/45 St. Stephen's Green
Dublin 2

Flemings Fireclays Ltd.

The Swan
Athy
Co. Kildare

Ormonde Brick Ltd.

Castlecomer
Co. Kilkenny

Flynn & Lehany Coal Mines Ltd.

c/o Mr. John Barrett
17 Castle Street
Dalkey
Co. Dublin

Roadstone Provinces Ltd.

Saggart
Co. Dublin

Greencore Agribusiness Ltd.

Killough Quarry
Thurles
Co. Tipperary

Tara Mines Ltd.

Knockumber House
Navan
Co. Meath

Irish Gypsum Ltd.

Unit 14
Park West Industrial Park
Dublin 12

SPECIMEN FORMS

- **Prospecting Licence Application Form**
- **Statement of Interest Registration Form**

These forms on the following pages may be photocopied or copies may be obtained from:

Exploration and Mining Division
Department of Communications, Marine and Natural Resources
Beggars Bush
Haddington Road
Dublin 4

Tel: (01) 6782000
Fax: (01) 6609627

**ROINN CUMARÁIDE, MARA AGUS ACMHAINNÍ NÁDÚRTHA
DEPARTMENT OF COMMUNICATIONS, MARINE AND NATURAL RESOURCES**



**APPLICATION FOR A PROSPECTING LICENCE UNDER THE MINERALS
DEVELOPMENT ACTS, 1940 TO 1999**

A separate form should be used for each application. More than one area may be included on the same form only if the areas are adjacent and for the same minerals. If more than one form is used, the relative priorities of all areas must be given. Licences are granted for 6 years unless a shorter period is warranted.

(1) Name(s) of Applicant(s) in full

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(2) Address(es) of Applicant(s)

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(3) Address(es) of Applicant(s) Registered Office

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Company Telephone and Fax Number

(4) Nationality of Applicant(s)

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(5) Occupation of Applicant(s)

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In the case of a company that is not the holder of a current prospecting licence, the application must be accompanied by copies of its most recent Annual Report and audited accounts, together with information concerning its share capital and details of significant shareholdings.

(6) A description of the area sought. In the case of ground for which established boundaries are shown on the prospecting licence map, the area required can simply be referred to by one or more licence numbers. For 'open ground' the boundaries required should be outlined in red on a one inch (or, where appropriate, six inch) Ordnance Sheet.

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(7) A priority listing of areas, or in the case of open ground, a breakdown of the area in terms of sub-areas in order of priority of interest (where practical or relevant). The area with the highest priority should be listed first.

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(8) The basis of the interest of the applicant in this ground (all minerals which are of interest, the basis for the belief that these minerals might be present etc.), and for which the applicant will carry out exploration.

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The applicant is invited to submit any maps, diagrams or reports which support the belief of the applicant that minerals are present. This information will be treated as confidential, and will not be placed on Open File at any stage. Such information will assist in determining which applicant (if any) in the case of competition will be offered a Licence over the area.

(9) (a) A full and detailed description of the programme of prospecting which the applicant proposes to carry out for each of the areas applied for, including particulars of any special techniques or equipment to be used.

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(b) Estimates, **for each two year phase** of the 6-year Licence term, of the proposed expenditure on each category of activity comprising the programme for each area applied for.

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(10) Information concerning the applicant's previous experience in prospecting for minerals (if not previously the holder of a Prospecting Licence).

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(11) Names, addresses, qualifications and experience of technical experts or advisers who will organise and carry out the prospecting programme. If the applicant will be the operator, then this should be stated.

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(12) Amount of capital available for operations under the Licence(s) now applied for:

(a) At present available

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(b) Which applicant can make available

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and the source

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Applicants may be asked to provide evidence that these amounts are available.

(13) Names and addresses of persons to whom the Minister can refer for evidence as to (a) character, (b) financial standing and (c) technical qualifications of the applicant(s). Independent references must be provided to cover each aspect.

(a)

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(b)

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(c)
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I/We hereby declare that all the foregoing particulars are correct. I/We enclose herewith the Ordnance Sheets referred to under (6) and a remittance of £150.00 per Prospecting Licence being the prescribed fee on application.

Signature(s) of Applicant(s)

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Date

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THE SECRETARY GENERAL
Department of Communications, Marine and Natural Resources,
Exploration and Mining Division,
Beggars Bush,
Haddington Road,
Dublin 4.

Note: Acceptance of applications for prospecting licences for consideration will not create any obligation on the part of the Minister to grant any facilities.

**STATEMENT OF INTEREST FOR PROSPECTING FACILITIES UNDER
THE MINERALS DEVELOPMENT ACTS, 1940 TO 1999**

Application is hereby made to lodge a 'Statement of Interest' for prospecting facilities in an area in County(ies)

Minerals of interest are:

The Area concerned is included:

- (a) Within the following Prospecting Licences Nos.
as marked on the attached copy of the relevant part of the most recent Prospecting Licence Competition Map issued by the Department; OR
- (b) In an open area the boundaries of which are given on the attached map at a scale of half inch/one inch/six inches to the mile/1:25,000 or other appropriate scale.

Applicant name(s) and address

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Date:

To: Exploration and Mining Division,
Department of Communications, Marine and Natural Resources,
Beggars Bush,
Haddington Road,
Dublin 4,
Ireland.