

EXPLORATION AND MINING DIVISION IRELAND

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CURRENT STATE MINING AND PROSPECTING FACILITIES

and

INDUSTRY NEWS

1st MAY, 2005



Department of Communications,
Marine and Natural Resources.
*Roinn Cumarsáide, mara agus
Acmhainní Náúrtha*

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

**CURRENT STATE MINING AND
PROSPECTING FACILITIES**

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**EXPLORATION AND MINING DIVISION
MINERALS PUBLICATION MP 11/05**

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OTHER PUBLICATIONS & PRODUCTS AVAILABLE FROM THE EXPLORATION AND MINING DIVISION

General

- Report by the Minister for Communications, Marine and Natural Resources, for the six months ended 30th June, 2004. MP 17/04. 70pp.
- Exploration and Mining Facilities. MP 08/04. 6pp.
- Land of Mineral Opportunities. MP 08/05. 6pp.
- Environmental Safeguards - the Irish Way. MP 06/04. 4pp.
- Mine Waste Management Workshop, Dublin, 2002. Available on CD. MP 25/03.
- Industry News (March 2005). MP 09/05. 6pp.
- Zinc and Lead in Ireland. MP 07/04. 6pp.
- Gold in Ireland. MP 05/04. 4pp.
- The "Top 55" Deposits. MP 07/05. 14pp.
- Airborne Data Release Initiative. MP 06/05. 4pp.
- Joint Venture Opportunities in Ireland. MP 10/05. 8pp.
- Exploration Permit Areas and Status (Feb. 2005) on CD MP 03/05.
- Gold in Ireland (localities etc.) on CD. MP 10/04.

Minfo Leaflets

- Exploration Focus - Clontibret Gold Prospect (1993). Minfo 10/93. 4pp.
- Glangevlin Gypsum Deposit (1995). Minfo 12/95. 4pp.
- Guidelines for Good Environmental Practice in Mineral Exploration. Minfo 2/04. 4pp.
- Consultants and Contractors in Ireland. Minfo 4/05 6pp.
- Fiscal Framework. Minfo 3/04. 4pp.
- Guidelines for Regional Airborne Geophysical Surveying for Minerals. Minfo 5/02. 2pp.
- Support Agencies. Minfo 1/04. 2pp.

Exploration Data Release (available on CD)

- Airborne magnetic survey (1995) Midlands, Oldtown and Harberton Bridge areas. MP 09/01. 43pp.
- Airborne magnetic and TEM survey (1995) Lisheen/Galmoy, Clonmel and Tullamore areas. MP 10/01. 14pp.
- Airborne magnetic and TEM survey (1996) Galmoy area. MP 11/01. 11pp.
- Airborne magnetic and radiometric survey (1996) Inishannon and Lismore areas. MP 13/01. 12pp.
- Airborne magnetic and TEM survey (1996) Lisheen, Silvermines and Lough Derg areas. MP 14/01. 12pp.
- Airborne magnetic and TEM survey (1997) over Carrickmacross, Newbridge, Summerhill, Tullamore and Lisheen and Navan test areas. MP 16/01. 16pp.
- Exploration data release (to 1996) over parts of Co. Tipperary and Co. Offaly. MP 03/02.
- Airborne TEM and magnetic survey (1997) over the Portumna and Clare areas. MP 09/02. 12pp.
- Airborne TEM and magnetic survey (1997) over the Tullamore area. MP 11/02. 12pp.
- Airborne TEM and magnetic survey (1998) over the Limerick, Gort and Newbridge South area. MP 13/02. 11pp.
- Airborne TEM and magnetic survey (1998) over the Limerick area. MP 15/02. 9pp.
- Airborne TEM and magnetic survey (1998) over the Silvermines area. MP 16/02. 11pp.
- Airborne magnetic survey (1997) over the Rathdowney area. MP 17/02. 8pp.
- Airborne magnetic survey (1998) over the Ferbane and Lough Derg (2) areas. MP 20/02. 13pp.
- Airborne magnetic survey (1998) over the Tulla, East Clare, area. MP 21/02. 9pp.
- Airborne magnetic survey (1998) over the Tipperary area. MP 22/02. 9pp.
- Arcon Airborne Magnetic Survey (1996) over the Galmoy area. MP 23/02. 8pp.
- Exploration data release (to 2002) over parts of Cos Galway, Roscommon, Westmeath. Offaly. MP 02/03.
- BHP Airborne TEM and Magnetic survey (1998) over Fermoy East and West, Ballinalack, Carrickmines East, Clare, Lough Sheelin and Mohill areas. MP 14/03. 10pp.
- Exploration data release (1972-2001) over parts of Cos Meath, Westmeath and Offaly. MP 19/03.
- Exploration data release (1970-2002) over parts of west-central Co. Meath. MP 24/03.
- Billiton/Noranda airborne TEM & magnetic survey (1998) over the Moate area. MP 15/03. 10pp.
- Navan Resources airborne magnetic survey (1998) over the Tynagh area. MP 16/03. 9pp.
- Tara Mines Ltd. airborne magnetic, VLF and radiometric survey (1999) over the Limerick area. MP 23/03. 10pp.
- Exploration data release update (to 2002) over parts of Co. Tipperary & Co. Offaly. MP 03/04.
- Amcorp Ireland Ltd. airborne Magnetic Survey (1999) over the North Cork Area. MP 18/04. 9pp.
- Exploration data release (1981 to 2003) over parts of Cos. Longford and Westmeath. MP 19/04.
- Exploration data release (1987 to 2002) over parts of Cos. Clare, Limerick and Tipperary. MP 20/04.
- Exploration data release - The 'Rathdowney Trend': Part 1 - North (1981-2002) Cos Kildare, Kilkenny, Laois. MP 21/04.
- The Ballinalack Zinc-Lead Deposit, Co. Westmeath (March 2005). MP 04/05.
- Exploration data release - The 'Rathdowney Trend' Part 2 - South (1986 to 1998) Cos Tipperary and Kilkenny, MP 05/05.
- The Cregganbaun Gold Prospect, Co Mayo (May 2005). MP 12/05.

Copies of the above, including this publication, are available FREE from the Exploration and Mining Division, Department of Communications, Marine and Natural Resources, Beggars Bush, Haddington Road, Dublin 4.

E-mail; EMD Technical.info@dcmnr.ie. Website: www.emd.ie

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MAP (in back pocket)

STATE MINING AND PROSPECTING AREAS, 1st May, 2005

(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.minex.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 31st July, 2005) 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.8). 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 **31st July, 2005**, will be subsequently considered without any regard to time priority.

• Incentive Areas

Significant financial incentives are available for the first six years of 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 8-17.

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

FEES (IR£)	Standard	Incentive Areas	
		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 (€)			
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

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.

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. The fee and requirements will be the same as for prospecting licences that have been available for over four years i.e. the 'Open Areas' Incentive category (see above).

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 Areas' incentive 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. The same minimum expenditure requirements will also apply.

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 brown colour.
- Licences which had been applied for under earlier 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 page 2), 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. Eurocheques for amounts less than €1,000 are also acceptable. 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 49). 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 AREAS COMPETITION

Procedures

The Prospecting Licence (PL) Competitions for areas are held every **three months**. The competition relates to areas for which licences have been surrendered or terminated, or that have been offered but declined, in the previous three months. However, previously unavailable ground may also be released through this procedure. Interested parties normally 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 31st July, 2005.

- Areas for which licences were current on the 20th January, 2005, but have become available in the period to 22nd April, 2005, and areas that were offered but were subsequently declined in the same period. They are shown on the map in yellow.

4	Galway	2702	Offaly	3477	Tipperary
1341	Offaly	2782	Offaly	3615	Galway
1342	Offaly	2866	Westmeath	3622	Meath
1343	Offaly	3475	Tipperary	3861	Galway
2522	Offaly	3476	Tipperary	3868	Offaly

- Areas associated with prospects that are now being released for application (see page 6). They are shown on the map in yellow.

1344	Westmeath	2397	Mayo	2640	Mayo
1345	Westmeath	2398	Mayo	2641	Mayo
1346	Westmeath	2399	Mayo	3148R	Mayo

MINERAL PROSPECTS OPEN FOR APPLICATION UNDER COMPETITION

The previous exploration data, together with geological maps and borehole data in GIS format, is available free on CD from the Exploration and Mining Division and also online at www.minex.ie.

Cregganbaun, Co. Mayo (Au) and adjacent areas

The block of Prospecting Licence Areas that include the Cregganbaun gold prospect, Co. Mayo, and are being made available are 2397, 2398, 2399, 2640, 2641 and 3148R. The prospect (PL Area 2397) occurs within a 10km long E-W sub-vertical shear zone, the Cregganbaun Shear Zone (CSZ), which traverses Ordovician isoclinally-folded turbidites and tuffs. The turbidites contain ultramafic detritus (including chromite and fuchsite), and there are also lenses of listvenite and lamprophyre dykes. All display strong carbonate-sericite-pyrite alteration. Deformation of the tuffs and the listvenites in the Shear Zone has led to the development of quartz-carbonate veins, which contain native gold and minor sulphides.

Exploration in the area by the Glencar – Andaman joint venture commenced in 1986. A regional panning survey identified 83 alluvial gold localities, while prospecting and lithogeochemical surveys of outcrop outlined significant gold values near the village of Cregganbaun. Geological mapping led to the recognition of the Shear Zone. Subsequent trenching and diamond drilling at Srahrooskey (51 holes; 7,800m) and Kinnadoohy (seven short holes) townlands confirmed the presence of extensive gold mineralization, both along strike and at depth. Grades of up to 270g/t Au were obtained. It is recognised that additional drilling is necessary before a commercial deposit can be outlined.

In late 1991, Mayo County Council amended the County Development Plan in an effort to ban mining in parts of Co. Mayo, including the areas hosting the Cregganbaun mineralization. The imposition of the mining ban was successfully challenged, the High Court finding that the ban was *ultra vires* the County Council, and was, therefore, null and void (November 1992).

The focus of Glencar-Andaman's interest was in the western part of the CSZ (PL areas 2397, 2398). However the CSZ extends eastwards through ground that was originally held by Tara Mines (PL area 2306), and continues through Glencar-Andaman ground further east (PL areas 2226, 3148R). All of these licences have been surrendered.

Ballinalack, Co. Westmeath (Zn – Pb)

The Ballinalack Zn-Pb deposit occurs in Co. Westmeath, in PL area 1344. The deposit was discovered in 1969 following regional geochemical surveys undertaken by Syngenore Explorations Ltd. Mineralization occurs at two stratigraphic levels in rocks of Lower Carboniferous (Dinantian) age. The main mass of proven mineralization, generally referred to as the Ballinalack deposit, occurs as discrete strata-bound pods in the basal part of the Waulsortian sequence of mudbank limestones. At Ballinalack, the Main Zone contains measured and indicated resources of 7.83Mt grading 6.4% Zn and 1.0% Pb. The central core of this zone contains a measured resource of 3.2Mt at 8.1% Zn and 1.4% Pb. Weaker mineralization occurs lower in the succession in a varied lithostratigraphic group referred to locally as the Mixed Beds. The upper mineralization is comparable in its stratigraphic setting to other Irish Zn-Pb deposits at Silvermines, Tynagh, Galmoy and Lisheen. The lower mineralization occurs in beds which are stratigraphically equivalent to those that host the giant Navan deposit. At both levels, mineralization consists of pyrite, sphalerite and galena with minor barite in a calcite gangue.

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
M137	Ormonde Brick Ltd.	31.01.97	Kilkenny	6	30.01.2012
M139	Irish Gypsum Ltd.	12.11.02	Monaghan	31,33,34	11.11.2032
			Cavan	29, 35	
M140	Anglo American Lisheen Mining Ltd., Killoran Lisheen Mining Ltd., & Lisheen Milling Ltd.	07.10.97	Tipperary	36	06.10.2027
M143	Eurostone Ltd.	01.06.04	Cork	24	31.12.08

- **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
SML5	Tara Mines Ltd	15.01.04	Meath	24, 25	31.08.2010
SML6	Arcon Mines Ltd	29.08.02	Kilkenny	3,8	02.02.2016
SML 8	Arcon Mines Ltd.	21.01.05	Kilkenny	3	02.02.2016
SML10	Arcon Mines Ltd	28.02.05	Kilkenny	3	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 and hence the PL areas in question are 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, 2004. The licenced minerals are abbreviated as follows: Base metals (Bm); Barytes (b); Gold (g); Silver (s).

PL Area	Licensee	Start	County	O.S. 6"	Minerals
134	Navan Resources Plc.	29/02/00	Galway	98,106	Bm, b, s
185	Tara Mines Ltd.	14/10/99	Longford	18,19,22, 23	Bm, b, s
350	Aurum Mineral Resources Ltd.	27/05/04	Tipperary	51, 59	Bm, b, s, g
449	Aurum Mineral Resources Ltd.	27/05/04	Limerick	22, 23, 31, 32, 41	g
449	Connemara Mining Co. Ltd	31/01/05	Limerick	22, 23, 31, 32, 40	Bm, b, s
450	Aurum Mineral Resources	27/05/04	Limerick	23, 24, 32, 33	g
450	Connemara Mining Co. Ltd.	31/01/05	Limerick	23, 24, 32, 33	Bm, b, s
468	Asarco Exploration Inc.	29/07/02	Tipperary Limerick	65,66 41	Bm, b, s
480	Arcon International Resources Plc.	22/09/94	Offaly	7,14,15	Bm, b, s
481	Arcon International Resources Plc.	22/09/94	Offaly	14,15,22	Bm, b, s
505	Westland Exploration Ltd.	22/06/85	Westmeath	30,36	Bm, b, s
506	Westland Exploration Ltd.	22/06/85	Westmeath Offaly	30,35,36 6,7	Bm, b, s
541	Navan Resources Plc./CEC Irel. Ltd	03/04/95	Galway	117,118, 126, 127	Bm, b, s, g
581	Tara Mines Ltd.	28/12/93	Longford	18,22	Bm, b, s
582	Arcon International Resources Plc.	19/06/91	Longford	22,23,26	Bm, b, s
586R	Arcon Exploration Plc.	26/10/81	Laois Kilkenny	28,33,34 3,8	Bm, b, s, g
600	Asarco Exploration Inc.	04/09/00	Kildare	17,22	Bm, b, s
626	Minco Ireland Ltd.	06/06/94	Tipperary	4,5,7,8	Bm, b, s
627	Minco Ireland Ltd.	06/06/94	Tipperary	7,8,10,11	Bm, b, s
635	Minco Ireland Ltd.	06/12/96	Limerick	13,14,22	Bm, b, s
636	Minco Ireland Ltd.	06/12/96	Limerick	6,13,14	Bm, b, s
643	Tara Mines Ltd.	20/04/95	Galway	106	Bm, b, s, g
649A	Minco Ireland Ltd	26/07/82	Offaly	35	Bm, b, s
754	Arcon Exploration Plc.	20/02/87	Laois	27,28,33, 34	Bm, b, s
767	Navan Resources Plc.	30/04/01	Galway	100,101, 108	Bm, b, s
786	Tara Mines Ltd.	01/05/91	Limerick	21,30	Bm, b, s

PL Area	Licensee	Start	County	O.S. 6"	Minerals
1022	Oriel Selection Trust	27/04/05	Mayo	72, 73, 81, 82	Bm, b, s, g
1051	Connemara Mining Co. Ltd.	28/01/05	Cavan	37, 38, 41 42	Bm, b, s, g, Platinum group elements
1053	Connemara Mining Co. Ltd.	28/01/05	Meath	8, 9, 9a, 42	Bm, b, s, g, Platinum group elements
1183	Tara Mines Ltd.	10/03/00	Wexford	34,39	Bm, b, s, g
1185	Tara Mines Ltd.	10/03/00	Wexford	35,40	Bm, b, s, g
1188	Tara Mines Ltd.	10/03/00	Wexford	31,35,36	Bm, b, s, g
1190	Tara Mines Ltd.	10/03/00	Wexford	25,31	Bm, b, s, g
1191	Tara Mines Ltd.	10/03/00	Wexford	19,25,26, 31,32	Bm, b, s, g
1192	Tara Mines Ltd.	10/03/00	Wexford	20,21,26, 27,32	Bm, b, s, g
1193	Tara Mines Ltd.	10/03/00	Wexford	19,20,26	Bm, b, s, g
1194	Tara Mines Ltd.	10/03/00	Wexford	20,26	Bm, b, s, g
1196	Tara Mines Ltd.	10/03/00	Wexford	15,20	Bm, b, s, g
1197	Tara Mines Ltd.	10/03/00	Wexford	15,16,20, 21	Bm, b, s, g
1198	Tara Mines Ltd.	10/03/00	Wexford	10,11,15, 16	Bm, b, s,g
1199	Tara Mines Ltd.	10/03/00	Wexford	11,16	Bm, b, s, g
1200	Tara Mines Ltd.	10/03/00	Wexford	6,7,11,12, 16,17	Bm, b, s, g
1201	Tara Mines Ltd.	10/03/00	Wexford	7,11,12, 17	Bm, b, s, g
1226	Minco Ireland Ltd.	16/05/68	Westmeath	17,23,24, 31	Bm, b, s
1228	Minco Ireland Ltd.	16/05/68	Westmeath	22,23,29, 30	Bm, b, s
1229	Minco Ireland Ltd.	16/05/68	Westmeath	23,30,35, 36	Bm, b, s
1302	Tara Mines Ltd.	28/06/94	Limerick	29,37	Bm, b, s
1303	Connemara Mining Co. Ltd	13/04/05	Limerick	36, 37, 44, 45	Bm, b, s, g platinum group elements
1324	Tara Mines Ltd.	16/11/95	Meath	24,30,36	Bm, b, s
1356	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	15,20	Bm, b, s, g, antimony
1357	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	15,20	Bm, b, s, g, antimony
1362	John Gannon	09/08/04	Galway	6, 18, 31	Bm, b, s, g
1380R	Tara Mines Ltd.	31/12/70	Meath	24,25,30, 31	Bm, b, s, g
1440R	Westland Exploration Ltd.	23/10/72	Meath	17,18,24, 25	Bm, b, s
1476	Kenmare Resources Plc.	30/09/02	Carlow	14,17,18, 20, 21	Caesium,lithium tin, tantalum, tungsten
1489R	Tara Mines Ltd.	26/10/70	Meath	18,25,26, 31	Bm, b, s, g
1496	Rennicks and Bennett Ltd	16/08/71	Meath	17,18,24, 25	Bm, b, s
1500	B.H.P. World Exploration Inc	14/12/95	Meath	41,42,47, 48	Bm, b, s, g, iron

PL Area	Licensee	Start	County	O.S. 6"	Minerals
1577	Central Mining Finance	28/02/96	Tipperary	41,47,48, 53,54	Bm, b, s, Calcite
1578	Central Mining Finance	28/02/96	Tipperary	41,42,47, 48	Bm, b, s, Calcite
1583	Tara Mines Ltd.	01/05/91	Limerick	11,12,20, 21,29,30	Bm, b, s
1584	Tara Mines Ltd.	28/06/94	Limerick	20,29,30, 37,38	Bm, b, s
1586	Tara Mines Ltd/Aurum Mineral Resources	60/06/04	Longford	6, 7, 10, 11	Bm, b, s, g
1587	Navan Resources Plc.	14/12/95	Longford	10,11,15, 16	Bm, b, s, g
1597	Kenmare Resources Plc.	30/09/02	Carlow	24,25,26	Caesium,lithium tin, tantalum, tungsten
1604	Arcon Exploration. Plc	17/06/98	Kildare	9,10,13, 14	Bm, b, s, g
1607	Arcon Exploration Plc.	17/06/98	Kildare	12,17,18	Bm, b, s, g
1608	Asarco Exploration Inc.	06/04/01	Kildare	13,18,19	Bm, b, s
1624	Asarco Exploration Inc.	24/02/03	Offaly	26, 33, 34	Bm, b, s, iron
1630	Asarco Exploration Inc.	14/08/96	Kildare	8,9,12	Bm, b, s
1640	Asarco Exploration Inc.	31/10/00	Laois	4,5,8,9	Bm, b, s
1652	Amcorp Ireland Ltd.	28/05/87	Laois	22,23,28, 29	Bm, b, s
1653	Westland Exploration Ltd.	22/02/83	Laois	22,28,34	Bm, b, s
1661R	Tara Mines Ltd.	31/12/71	Meath	25	Bm, b, s, g
1675	Tara Mines Ltd/Aurum Mineral Resources	30/06/04	Leitrim	29, 33, 36	Bm, b, s, g
1813	Tara Mines Ltd.	10/03/00	Wexford	3,6,7,7A, 7B,12	Bm, b, s, g
1870	Conroy Diamonds & Gold Plc.	10/04/97	Monaghan	14,15,19, 20	Bm, b, s, g
1940	Connemara Mining Co. Ltd.	13/04/05	Cork	1, 2, 3	Bm, b, s, g, Platinum group elements
1942	Connemara Mining Co. Ltd.	13/04/05	Limerick	29, 37	Bm, b, s, g, Platinum group elements
1943	Connemara Mining Co. Ltd.	13/04/05	Limerick	37, 38, 45	Bm, b, s, g, Platinum group elements
1946	Connemara Mining Co. Ltd.	13/04/05	Limerick	37, 38, 45, 46	Bm, b, s, g, Platinum group elements
1947	Connemara Mining Co. Ltd.	13/04/05	Limerick	38, 39, 46, 47	Bm, b, s, g, Platinum group elements
1948	Tara Mines Ltd.	11/07/02	Limerick	39,47	Bm, b, s, g
1949	Tara Mines Ltd.	27/05/87	Limerick	39,40,47, 48,55	Bm, b, s
1991	Connemara Mining Co. Ltd.	28/01/05	Meath	8, 9, 14, 15	Bm, b, s, g, Platinum group elements

PL Area	Licensee	Start	County	O.S. 6"	Minerals
2016	Minco Ireland Ltd.	26/07/76	Offaly	35,38,38A, 47	Bm, b, s
2029	Connemara Mining Co. Ltd.	31/01/05	Kerry	46, 47, 57	Bm, b, s, g, Platinum group elements
2069	Amcorp Ireland Ltd	28/05/87	Tipperary	35,41	Bm, b, s
2093	Navan Resources. Plc	30/04/01	Galway	87,88,99, 100	Bm, b, s
2096	Sabina Resources Ltd.	27/05/99	Galway	85,86,97, 98	Bm, b, s
2097	Sabina Resources. Ltd	27/05/99	Galway	96,97,105	Bm, b, s
2100	Navan Resources Plc.	29/02/00	Galway	98,99,106, 107	Bm, b, s
2105	Navan Resources Plc.	30/04/01	Roscommon	53,53A,54, 56	Bm, b, s
2140	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	16,17,21, 22	Bm, b, s, g
2193	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	19,20,24, 25	Bm, b, s, g
2194	Conroy Diamonds & Gold Plc.	11/07/96	Monaghan	10,14	Bm, b, s, g
2218	Amcorp Ireland Ltd.	28/05/87	Laois	23,29	Bm, b, s
2239	Minco Ireland Ltd.	28/07/03	Wicklow	40, 45	Bm, b, s, g
2254	Conroy Diamonds & Gold Plc.	23/01/98	Monaghan	9,10	Bm, b, s, g, antimony
2258	Amcorp Ireland Ltd.	28/05/87	Tipperary	29,30,35, 36	Bm, b, s
2295	Aurum Mineral Resources	30/06/04	Galway	12, 25	Silver, gold
2351	Tournigan Gold Corporation	11/09/03	Donegal	53, 54, 61, 62	Bm, s, g
2354	Tournigan Gold Corporation	11/09/03	Donegal	53, 60, 61, 68, 69	Bm, s, g
2357	Tournigan Gold Corporation	11/09/03	Donegal	69, 70, 77, 78	Bm, s, g
2358	Tournigan Gold Corporation	11/09/03	Donegal	69, 70, 78 79	Bm, s, g
2359	Tournigan Gold Corporation	11/09/03	Donegal	78, 79, 87	Bm, s, g
2396	Aurum Exploration	13/01/03	Mayo	85, 86, 95, 96	Gold, silver
2447	Amcorp Ireland Ltd.	28/05/87	Tipperary	29,35,36, 41	Bm, b, s
2448	Amcorp Ireland Ltd.	28/05/87	Tipperary	35,36,41, 42	Bm, b, s
2512	Glencar Explorations Plc.	15/01/92	Laois	14,18,19	Bm, b, s
2529	Minco Ireland Ltd.	06/12/96	Limerick	14,15,23, 24	Bm, b, s
2530	Minco Ireland Ltd.	13/11/95	Limerick	15,23,24	Bm, b, s
2551	Minco Ireland Ltd.	01/03/94	Wexford	5,6,11	Gold
2554	Minco Ireland Ltd.	05/12/94	Wexford	4,5,9,10	Gold

PL Area	Licensee	Start	County	O.S. 6"	Minerals
2558	Minco Ireland Ltd.	05/12/94	Wicklow	46,47	Gold
2594	Connemara Mining Co. Ltd.	13/04/05	Limerick	44, 45, 53	Bm, b, s, g Platinum group elements
2638	Aurum Mineral Resources	27/05/04	Limerick	13, 14, 22 23, 31	Gold
2638	Connemara Mining Co. Ltd.	31/01/05	Limerick	13, 14, 22 23, 31	Bm, b, s Platinum group elements
2645	Aurum Mineral Resources	30/06/04	Mayo	116a, 117, 120, 120a	Silver, gold
2646	Aurum Mineral Resources	30/06/04	Galway	12, 13, 25	Silver, gold
2647	Aurum Mineral Resources	30/06/04	Galway	12, 13, 25, 26	Silver, gold
2654	Asarco Exploration Inc.	29/07/02	Tipperary	66,73	Bm, b, s
2670	Minco Ireland Ltd	25/11/85	Offaly	35,36,38, 39	Bm, b, s
2671R	Arcon Exploration Plc.	12/08/98	Offaly	30,31,35, 36	Bm, b, s
2683	Conroy Diamonds & Gold Plc.	15/07/96	Monaghan	9,10,13,Bm, b, s, g 14	
2686	Navan Resources Plc.	30/04/01	Galway	99,100, 107,108	Bm, b, s
2696	BHP World Exploration Inc. Plc.	23/06/98	Limerick	4,12	Bm, b, s, g
2760	Sabina Resources Ltd.	27/05/99	Galway	26 97,98,105, 106	gemstones Bm, b, s
2827	Conroy Diamonds & Gold Plc	27/09/00	Cavan	24,25,30, 31	Bm, b, s, g
2835	BHP World. Exploration Inc	28/06/98	Limerick	4,11,12,Bm, b, s, g 20,21	
2839	Aurum Mineral Resources	27/05/04	Limerick/ Tipperary	33 57, 58, 65, 66	Bm, b, s, g
2840	Arcon International Resources Plc.	19/12/86	Limerick Tipperary	24,25,32, 33,33A 57	Bm, b, s, g
2845	Connemara Mining Co. Ltd.	13/04/05	Limerick	28, 36	Bm, b, s, g, Platinum group elements
2850	Noranda/Minco	17/07/01	Limerick	7,8,15	Bm, b, s
2859	Arcon International Resources Plc.	17/08/81	Offaly	31,32,36, 37,39	Bm, b, s
2895	Central Mining Finance	01/03/93	Clare	27,28,35, 36	Bm, b, s
2927	Aurum Mineral Resources	27/05/04	Limerick	13, 22, 31	Gold
2927	Connemara Mining Co. Ltd.	31/01/05	Limerick	13, 22, 31	Bm, b, s Platinum group elements
2964	Cambridge Mineral Resources	30/08/96	Donegal	11,20,21	Gem minerals

PL Area	Licensee	Start	County	O.S. 6"	Minerals
3007	Cambridge Mineral Resources	21/05/97	Donegal	5,12,13	Gem minerals
3008	Cambridge Mineral Resources	06/08/99	Donegal	12,13,22	Gem minerals
3027	Conroy Diamonds & Gold Plc	20/08/98	Monaghan	19,24,25	Bm, b, s, g antimony
3028	Conroy Diamonds & Gold Plc	15/07/96	Monaghan	13,14,18 19	Bm, b, s, g,
3040	Tournigan Gold Corporation	11/09/03	Donegal	94, 95, 100, 101	Bm, s, g
3056	Cambridge Mineral Resources	21/05/97	Donegal	1,4	Bm, b, s, g, gem minerals
3062	Cambridge Mineral Resources	21/05/97	Donegal	11,12,20, 21	Gem minerals
3063	Cambridge Mineral Resources	04/10/99	Donegal	20,21,30, 31	Gem minerals
3063	Tournigan Gold Corporation	11/09/03	Donegal	20, 21, 30 31	Bm, s, g
3065	Conroy Diamonds & Gold Plc	20/08/98	Monaghan	12,13,17, 18	Bm, b, s, g, antimony
3066	Conroy Diamonds & Gold Plc.	20/08/98	Monaghan	13,18	Bm, b, s, g, antimony
3068	Conroy Diamonds & Gold Plc.	27/09/00	Monaghan	17,18,22, 23	Bm, b, s, g, gem minerals
3093	Tournigan Gold Corporation	11/09/03	Donegal	62, 63, 70 71	Bm, s, g
3094	Cambridge Mineral Resources	06/08/99	Donegal	12,13,21, 22	Gem minerals
3095	Tournigan Gold Corporation	11/09/03	Donegal	30, 39, 39a	Bm, s, g
3115	Minco Ireland Ltd.	25/11/85	Offaly	35	Bm, b, s
3123	Tournigan Gold Corporation	11/09/03	Donegal	61, 62, 69 70, 79	Bm, s, g
3130	Conroy Diamonds & Gold Plc	27/11/96	Cavan	21,25,26	Bm, b, s, g
3131	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	21,26	Bm, b, s, g
3156	Minco Ireland Ltd.	16/04/87	Tipperary	20,21,26, 27	Bm, b, s
3169	Aurum Mineral Resources	30/06/04	Galway	25, 26	Silver, gold
3170	Aurum Mineral Resources	30/06/04	Galway	26, 27, 39	Silver, gold
3217	Tournigan Gold Corporation	11/09/03	Donegal	70, 71, 79 79, 88 Plc.	Bm, s, g
3220	Mineral Estates (Ireland) Ltd.	18/09/96	Dublin	4,5,8	Bm, b, s, g
3224	Tournigan Gold Corporation	11/09/03	Donegal	78, 79, 87, 88	Bm, s, g
3245R	Arcon Exploration	19/12/86	Kilkenny	3,7,8,12	Bm, b, s, g

PL Area	Licensee	Start	County	O.S. 6"	Minerals
3249	Tara Mines Ltd.	27/05/87	Limerick	39,40,47, 48,55	Bm, b, s
3262R	Amcorp Ireland Ltd	28/05/87	Tipperary	30,36,42	Bm, b, s
3264	Tara Mines Ltd.	10/03/00	Wexford	16,20,21,27	Bm, b, s, g
3268	Minco Ireland Ltd.	08/11/91	Limerick	15,16,24,25	Bm, b, s
3270	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	19,20,24,25	Bm, b, s, g
3312	Arcon Exploration Plc.	04/08/87	Laois	29,34,35	Bm, b, s
3313	Arcon Exploration Plc.	04/08/87	Kilkenny	3,8,9,12	Bm, b, s
3318	Minco Ireland Ltd.	19/05/87	Tipperary	40,41,46,47	Bm, b, s
3321	Central Mining Finance	28/02/96	Tipperary	42,48	Bm, b, s, calcite
3332	Asarco Exploration Inc.	06/04/01	Kildare	13,14,18, 19	Bm, b, s
3342	Noranda Exploration. Ireland Ltd	21/05/99	Limerick	15,16,24	Bm, b, s
3344	Noranda Exploration Ireland Ltd.	25/05/99	Limerick	6,14,15	Bm, b, s
3345	Ormonde Brick Ltd.	14/09/98	Kilkenny	6	Coal, fireclay
3364	Tara Mines Ltd.	19/05/88	Longford	5,6,9,10	Bm, b, s, g
3363	Tara Mines Ltd/Aurum Mineral Resources	30/06/04	Longford	4, 5, 8, 9	Bm, b, s, g
3366	Tara Mines Ltd.	27/04/88	Limerick	30,31,38	Bm, b, s
3367	Aurum Mineral Resources	27/05/04	Limerick	22, 30, 31 38, 39	Gold
3367	Connemara Mining Co. Ltd.	31/01/05	Limerick	22, 30, 31 38, 39	Bm, b, s Platinum group elements
3368	Tara Mines Ltd.	27/04/88	Limerick	21,22,30,31	Bm, b, s
3369	Tara Mines Ltd.	27/04/88	Limerick	21,30,31	Bm, b, s
3373	Tara Mines Ltd.	01/03/93	Meath	11,16,17, 23,24	Bm, b, s
3400	Conroy Diamonds & Gold Plc.	27/11/96	Cavan	25,26,31, 32	Bm, b, s, g
3414	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	30,31,37, 38	Bm, b, s, g
3422	Aurum Mineral Resources	30/06/04	Galway	27	Silver, gold
3425	Minco Ireland Ltd.	05/03/93	Tipperary	14,20	Bm, b, s
3463	Tara Mines Ltd.	10/03/00	Wexford	39,40,44, 45	Bm, b, s, g
3464	Tara Mines Ltd.	10/03/00	Wexford	34,35,39, 40	Bm, b, s, g
3465	Tara Mines Ltd.	10/03/00	Wexford	30,34,35	Bm, b, s, g
3466	Tara Mines Ltd.	10/03/00	Wexford	30,31,35, 36	Bm, b, s, g
3467	Aurum Mineral Resources	30/06/04	Mayo	120, 120b 121, 123	Silver, gold
3469	Conroy Diamonds &. Gold Plc	27/09/00	Monaghan	17,22	Bm, b, s, g

PL Area	Licensee	Start	County	O.S. 6"	Minerals
3488	Tara Mines Ltd.	02/05/88	Limerick	11,19,20, 28,29	Bm, b, s
3489	Tara Mines Ltd	02/05/88	Limerick	11,20,29	Bm, b, s
3496	Cambridge Mineral Resources Plc.	30/08/96	Donegal	4,5,11,12	Gem minerals
3507	Navan Resources Plc.	29/04/02	Galway	108,108, 118	Bm, b, s
3508	Central Mining Finance	16/11/98	Clare	43,51,52	Bm, b, s, calcite flourite
3526	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	36,37,41	Bm, b, s, g
3545	Ovoca Resources Plc.	11/02/99	Limerick	19,28	Bm, b, s
3550	Noranda Exploration Irl. Ltd/Minco Irl. Ltd.	30/04/01	Clare	53,54,63, 64	Bm, b, s
3552	Asarco Exploration Inc.	29/07/02	Tipperary	58,66	Bm, b, s
3562	Conroy Diamonds. & Gold Plc	27/09/00	Cavan	20,21,25, 26	Bm, b, s, g
3563	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	15,26,20, 21	Bm, b, s, g
3564	Conroy Diamonds & Gold Plc.	27/09/00	Cavan	12,16,17, 21	Bm, b, s, g
3569	Minco Ireland Ltd.	13/10/88	Tipperary	41,47	Bm, b, s
3581	Tara Mines Ltd.	29/07/02	Limerick	32,33,40,41	Bm, b, s, g
3582	Tara Mines Ltd.	29/07/02	Limerick	40,41,48,49	Bm, b, s, g
3590	Tara Mines Ltd.	11/06/01	Wexford	7,12,17	Bm, b, s, g
3628	Tara Mines Ltd/Aurum Mineral Resources	30/06/04	Longford	2, 5, 9	Bm, b, s, g
3629	Tara Mines Ltd/Aurum Mineral Resources	30/06/04	Longford	2, 3, 5, 6	Bm, b, s, g
3630	Tara Mines Ltd/Aurum Mineral Resources	30/06/04	Longford	3, 5, 6, 10	Bm, b, s, g
3633	Tara Mines Ltd.	03/06/93	Longford	8,9,13,14,18	Bm, b, s
3643	Central Mining Finance	25/05/99	Clare	34,35,42, 43, 51,52	Bm, b, s
3647	Minco Ireland Ltd.	08/11/91	Tipperary Limerick	50,51, 25	Bm, b, s
3647	Aurum Mineral Resources	27/05/04	Tipperary/ Limerick	50, 51 24, 25	Gold
3650	Connemara Mining Co Ltd.	13/04/05	Limerick	35, 36, 43, 44	Bm, b, s, g, Platinum group elements
3651	Connemara Mining Co. Ltd.	13/04/05	Limerick	44, 45, 53, 54	Bm, b, s, g, Platinum group elements
3660	Navan Resources Plc./CEC Irel Ltd.	10/05/95	Meath	15,16,22, 23	Bm, b, s, g
3662	Glencar Mining Plc.	21/08/98	Laois	13,18	Bm, b, s
3667	Amcorp Ireland Ltd	28/07/91	Laois	28,29,34, 35	Bm, b, s
3668	Minco Ireland Ltd.	20/01/92	Tipperary Offaly	14,16,20,21 44	Bm, b, s
3678	Minco Ireland Ltd.	11/03/92	Tipperary	9,10,14,15	Bm, b, s
3679	Clare Calcite Ltd.	27/10/91	Clare	34,42	Calcite

PL Area	Licensee	Start	County	O.S. 6"	Minerals
3688	Amcorp Ireland Ltd	09/01/97	Laois	29,30,35	Bm, b, s
3689	Asarco Exploration Inc.	29/04/02	Tipperary	70,77	Bm, b, s
3722	Minco/Pine Point - Westland/Getty	05/10/92	Westmeath	29	Bm, b, s
3727	Minco Ireland Ltd.	05/03/93	Tipperary	7, 8, 10, 11	Bm, b, s
3729	Central Mining Finance	01/03/93	Clare	19,20,27, 28	Bm, b, s
3774	Oriel Selection Trust Ltd.	27/04/05	Mayo	72, 81, 102	Bm, b, s, g
3777	Minco Ireland Ltd.	30/06/03	Kildare	19, 20, 24 25, 25a, 29	Bm, b, s, g
3782	Fractor Pty.	11/07/02	Tipperary	58,59,66,67	Bm, b, s
3787	Central Mining Finance	08/06/94	Clare	26,27,33, 34,42	Bm, b, s
3788	Central Mining Finance	08/06/94	Clare	19,26,27, 34,35	Bm, b, s, calcite, fluorite
3789	Central Mining Finance	08/06/94	Clare	35,43	Bm, b, s
3807	Noranda Exploration Irl. Ltd./Minco Irl.Ltd	30/04/01	Limerick Tipperary	1 31,37	Bm, b, s
3820	Cambridge Mineral Resources	04/10/99	Donegal	20,30,31	Gem minerals
3820	Tournigan Gold Corporation	11/09/03	Donegal	20, 30, 31	Bm, s, g
3822	Tara Mines Ltd.	10/03/00	Wexford	25,30,31	Bm, b, s, g
3824	Aurum Mineral Resources	27/05/04	Limerick	31, 32	Bm, b, s, g
3839	Navan Resources Plc.	10/05/95	Meath	15,16,23	Bm, b, s, g
3840	Tara Mines Ltd.	20/04/95	Galway	98,105, 106	Bm, b, s, g
3846	Asarco Exploration Inc.	04/09/96	Kildare	11,12,13, 16,17	Bm, b, s
3849	Jadebay Ltd	11/06/98	Wicklow	30,31,35, 36,40	Bm, b, s, g
3850	Jadebay Ltd	11/06/98	Wicklow	30,35,40	Bm, b, s, g
3851	Tara Mines Ltd.	30/04/01	Meath	17,23,24,30	Bm, b, s
3853	Asarco Exploration. Inc	31/10/00	Laois	4,8,13	Bm, b, s
3854	Asarco Exploration Inc.	31/10/00	Offaly	26,27,33,	Bm, b, s
3856	Cambridge Mineral Resources Plc.	30/08/96	Donegal	2,3,4,5	Gem minerals
3863	Central Mining Finance	21/05/97	Clare	18,19,24, 26	Bm, b, s, calcite fluorite
3866	Asarco Exploration. Inc	18/06/97	Kildare	12,16,17, 21,22	Bm, b, s
3869	Conroy Diamonds & Gold Plc	20/08/98	Monaghan	18,19,23, 24	Bm, b, s, g, antimony
3870	Conroy Diamonds & Gold Plc.	20/08/98	Monaghan	25,28	Bm, b, s, g, antimony

PL Area	Licensee	Start	County	O.S. 6"	Minerals
3871	Conroy Diamonds & Gold Plc.	20/08/98	Monaghan	24,25,27, 28	Bm, b, s, g, antimony
3887	Oriel Selection Trust Ltd.	27/04/05	Mayo	63, 72, 73	Bm, b, s, g
3891	Dan Morrissey (Ireland) Ltd.	27/09/99	Laois	37	Coal, fireclay
3908	Noranda Exploration Irl. Ltd./Minco Irl. Ltd.	17/07/01	Limerick	5,6,13,14	Bm, b, s
3912	Tara Mines Ltd.	19/04/02	Meath	25	Bm, b, s
3913	Navan Resources Plc.	29/04/02	Galway	100,101, 108,109	Bm, b, s
3914	Navan Resources Plc.	29/04/02	Galway	100,101, 109	Bm, b, s
3920	Asarco Exploration Inc.	24.02.03	Offaly	18, 19, 26, 27	Bm, b, s, iron
3921	Tournigan Gold Corporation	11/09/03	Donegal	19, 20, 29 30	Bm, s, g
3922	Tournigan Gold Corporation	11/09/03	Donegal	29, 30, 38 39, 39a, 47	Bm, s, g
3923	Tara Mines Ltd.	27/05/04	Limerick	12, 13, 21, 22	Bm, b, s, g
3924	Aurum Mineral Resources	27/05/04	Tipperary/ Limerick	50, 51, 58, 59 33a	Bm, b, s, g
3925	Connemara Mining Co. Ltd.	28/01/05	Meath	9, 10, 15	Bm, b, s, g, Platinum group elements
3926	Connemara Mining Co. Ltd.	28/01/05	Meath	9, 10, 15 16	Bm, b, s, g, Platinum group elements
3929	Oriel Selection Trust Ltd.	24/04/05	Mayo	72, 73, 81, 82	Bm, b, s, g
3930	Oriel Selection Trust Ltd.	27/04/05	Mayo	63, 73, 74, 83	Bm, b, s, g
3931	Dan Morrissey (Irl) Ltd	27/04/05	Carlow/ Laois	6 36, 37	Coal, Fireclay

Prospecting Licences Offered and Advertised

These are licences that are in the process of being issued for certain minerals, and are indicated by their reference number and a brown colour on the map. They are available for other minerals.

PL Area	Licensee	County	Minerals
3431	Minco Ireland Ltd.	Limerick	Base metals, barytes, silver and platinum group elements
3842	Belmore Resources Ltd.	Louth	Base Metals, barytes, silver, nickel and platinum group elements
3843	Belmore Resources Ltd.	Louth	Base metals, barytes, silver, nickel and platinum group elements

INDUSTRY NEWS

During the last six months there has been a clear improvement in the fortunes of the mining sector, and a noticeable increase in optimism in the exploration sector. In base metal mining, the three underground zinc-lead mines continue to account for much of the production of zinc (42%) and lead (29%) concentrate in Western Europe. All three mine owners have also been drilling in search of further resources in the vicinity of the mines. **Arcon International Resources**, owner of the Galmoy Mine, and **Lundin Mining** announced their intention to merge. Mining of gypsum continues at **Irish Gypsum's** open pit at Knocknacran, Co. Cavan, while a number of dolomite and dolomitic limestone quarries are also in production.

Although base metal exploration outside near mine areas has not yet resumed, a number of companies have increased budgets to carry out drilling programmes this year. Some exploration for gold has also been carried out.

Development

- **Navan (New Boliden)**

Production at the **New Boliden – Tara Mines** underground zinc – lead mine at Navan, Co. Meath during 2004 amounted to 2.5Mt grading 9.15% Zn and 1.82% Pb. This produced 381.275t of zinc concentrate (55.9% Zn). Total production (1977-2004) amounts to 60.228Mt grading 8.37% Zn and 2.04% Pb. At the end of 2003 (sic) Tara's JORC Classified Ore Reserves for the entire orebody amounted to 16.97Mt at 9.3% Zn and 2% Pb with an additional 20Mt of Mineral Resources grading 7.3% Zn and 2.1% Pb.

- **Lisheen (Anglo American)**

During 2004 **Anglo American** produced 1.46Mt of ore grading 11.71% Zn and 1.76% Pb from the underground mine at Lisheen, Co. Tipperary. This produced 293,092t of zinc concentrate (53.3% Zn). Total production (1999-2004) is 6.57Mt grading 11.62% Zn and 2.27% Pb. Reserves at end December 2004 were 11.97Mt grading 11.69% Zn and 1.94% Pb with added Resources of 1.77Mt at 12.14% Zn and 2.10% Pb.

The company made a planning application in November 2004 to work minerals in the Bog Zone, northeast of the current underground workings. These minerals lie within the existing State Mining Lease area.

- **Galmoy (Arcon Mines)**

During 2004 **Arcon Mines Ltd.** produced 0.64Mt grading 12.9% Zn and 5.5% Pb from their underground zinc-lead mine at Galmoy, Co. Kilkenny. This resulted in 134,000t of zinc concentrate (51.5% Zn) and 26,000t of lead concentrate (57.7% Pb). Total production since start of mining to end 2004 is 4.4Mt at 11.02% Zn and 1.99% Pb. Reserves at the end of December 2004 were 3.96Mt at 14.1% Zn and 4.3% Pb, which includes 2.62Mt of Proven Reserves at 15.9% Zn and 4.96% Pb and 1.34Mt at 10.62% Zn and 3.0% Pb of Probable Reserves.

In March 2005, Arcon International Resources, the parent company of Arcon Mines Ltd, and **Lundin Mining** announced their intention to merge. Lundin Mining, which is listed on the Toronto and the

Stockholm Stock Exchanges, is a Canadian mining and exploration company with a primary focus in Europe. The principal asset of the company is the Zinkgruvan zinc-lead-silver mine in Sweden. Lundin Mining also holds approximately 96.4% of the shares in North Atlantic Natural Resources (NAN), whose primary asset is the Storliden copper-zinc mine in Northern Sweden. (Lundin intends to compulsorily acquire the outstanding shares in NAN). In addition, Lundin Mining holds a copper/gold exploration project in the Norrbotten Mining District in northern Sweden. The enlarged group will have the ability to commit financial and technical resources for investment in, and exploration around, the Galmoy mine, making it possible to seek to both enhance operational efficiencies and extend Galmoy's mine life. Based on the current issued share capital of both companies (undiluted) the merger would result in ARCON shareholders having an aggregate interest in Lundin Mining(following the merger) of approximately 14%.

Development of the high grade R zone at Galmoy is underway, following the issue of a new State Mining Licence in January. Planning Permission had been finalised earlier, in June 2004.

Arcon continued their near mine exploration programme, with particular attention being paid to areas on strike along the 'en echelon' G Fault system that links Galmoy with the Lisheen zinc-lead deposit.

Exploration

- **Company Activities**

During the past six months, **Arcon Exploration Plc** continued to concentrate most of its efforts in the vicinity of the company's underground zinc-lead mine at Galmoy, Co. Kilkenny (operated by **Arcon Mines Ltd**), where they have been drill-testing geophysical targets generated by a variety of methods, including gravity surveying, Schlumberger array IP and resistivity depth soundings.

Asarco Exploration Company Inc. (Asarco) has undertaken a comprehensive technical review of its ground holding in Ireland. The ground holding covers an area of 555 sq. km, and is divided into five licence blocks. These are located in Cos. Kildare, Laois, Offaly, Tipperary and Limerick, where there are the same dolomitized Waulsortian Limestone Complex lithologies that host the Lisheen and Galmoy zinc-lead ore bodies. Asarco is seeking joint venture partners for their ground.



County Map of Ireland showing locations mentioned in the text. Bulgaden (B), Galmoy (G), Knocknacran (K), Lisheen (L), Navan (N), Pallas Green (PG), Slieve Glah (SG), Tully-Lisglassan (TL)

In September 2004, **Conroy Diamonds and Gold Plc** received a commissioned report from SRK Consulting (UK) on the gold prospects and exploration potential of the company's licences in the Longford-Down Massif. The report recommended focusing on three target areas. Each area is characterised by a deep-seated lineament that intersects the major NE-SW Orlock Bridge fault, which is believed to be the controlling structural influence on gold mineralization within the Lower Palaeozoic rocks of the Massif. At the end of February, Conroy said that recent deep overburden sampling at Slieve Glah, which lies some 45km southwest of the Tullybuck-Lisglassan prospect, had outlined two zones of "anomalous bedrock mineralization".

In the latter part of 2004, **Minco** and their joint venture partner, **Noranda**, carried out a drilling programme, which extended the known mineralised zone at their Pallas Green, Co. Limerick prospect. A significant drill programme is proposed for this prospect in 2005.

Also in Co. Limerick, **Tara Mines** will carry out a drilling programme this year on the Bulgaden prospect, where they have been intersections of 5.3m grading 9.6% Zn, 2.1% Pb and 4.5m grading 12.3% Zn, 1.6% Pb at a depth of approximately 300m

- **Prospecting Licence Information**

On the 11th October 2004, a total of twenty-seven active companies held 273 Prospecting Licences, primarily for base metals. During the past six months, twenty-seven licences were issued. Twenty-one licences were issued to Connemara Mining Co. Ltd. These included a block of ten licences in south Co. Limerick / north Co. Cork (Kilmeedy), all of which were issued for base metals, barytes, silver, gold and Platinum Group Elements. The company were also granted five licences in east Co. Limerick (three at Fedamore and two at Holycross). These licences are for base metals, barytes and silver; the five licences are already held by Aurum Mineral Resources for gold. Connemara Mining also received a block of five licences in north Co. Meath / Co. Cavan (Oldcastle), all of which are for base metals, barytes, silver, gold and Platinum Group Elements. A single licence in Co. Kerry (Castlemaine,) for base metals, barytes, silver, gold and Platinum Group Elements, was also granted to the company. Oriel Selection Trust were granted five licences in Co. Mayo (Charlestown), for base metals, barytes, silver and gold. Finally, Dan Morrissey (Irl) Ltd was granted a licence in Co. Carlow / Co. Laois for coal and fireclay. Fifteen licences have been surrendered during the past six months.



Map showing currently held Prospecting Licence areas over the southern part of the zinc-rich 'Rathdowney Trend' for which exploration data has just been released.

Exploration Support

During the past six months the Exploration and Mining Division has maintained their ongoing complementary programmes to encourage exploration, with all data provided free of charge and in digital format.

- **The MAPS (Minerals Administration Programme Support) Programme.**

This project, designed to provide online clients with all the available background data to assess ground and undertake permitting and eBusiness, is now nearing completion. The website (minex.ie) has been completely revised with substantial new content and a new GIS map viewer with increased functionality. There are now 21 spatial datasets available, with a new mining theme that includes data on current and historic mines and current mining permits. The remaining elements of this programme, namely the full e-Business facilities for permitting, and the back office workflow system designed to deliver increased efficiency to customers, will be completed by late 2005.

- **Data Availability Programmes**

A substantial amount of company exploration data has been made available free through these programmes in the past six months, both online (minex.ie) and on CD. The bulk of the 35 year

backlog has now been cleared, resulting in online data now being available for over 40% of the area covered by prospecting licences (see Figure).

Data from current holders (All data more than 6 years old). Data on 45 more licence areas were released. All areas in this category now have data publicly available, but release is still incomplete for a number of areas. In addition, all companies who availed of the 2002 – 2004 exploration expenditure concessions and are seeking joint venture partners have also now had their data released. As a result, 158 currently held areas now have information from current holders in the public domain, with information on a further 30 areas due for release in 2005.

Data from surrendered ground. Data for a further 37 licence areas has been made publicly available, linked with the relevant quarterly Prospecting Licence Competition for ground surrendered in the previous quarter (1st February and 1st May 2005).

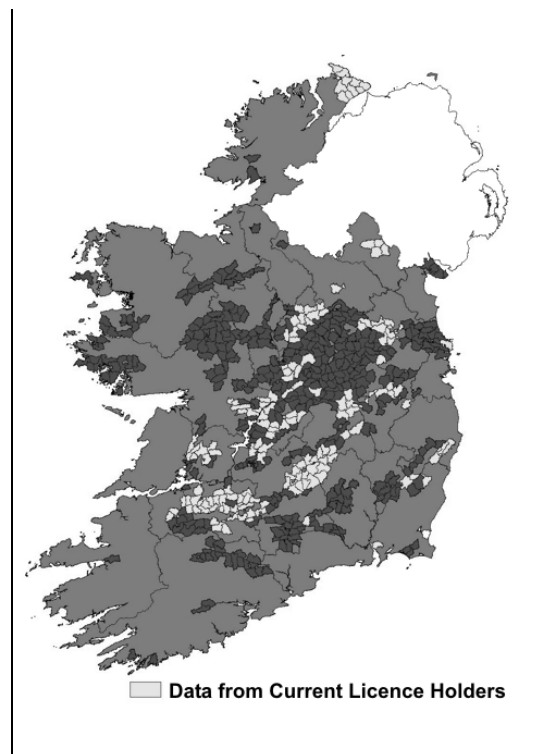
Online Availability of Company Data. This programme is driven by the need to provide both industry and the general public with as much free information as possible regarding company activities, ground assessment for exploration, and newly available areas for competitive application. All data released since 1st January 2000 has now been published online (minex.ie), covering over 550 Prospecting Licence areas that include some 70% of the Central Ireland Basin zinc province (see Figure). All further data releases will be immediately available on the website, apart from the airborne geophysical data (for which file sizes are too large). Although none of the exploration data released prior to 2000 is online, it is available through the Geological Survey of Ireland (see page 26).

Digital Prospecting Licence Data. The digital version of the Prospecting Licence map is now published twice yearly, on 1st May and 1st November. These are provided free on request (email: EMDTechnical.info@dcmnr.gov.ie). All licence data are provided on CD in shapefile format, for use with the ESRI suite of GIS products. A free map viewer “ArcExplorer,” is bundled with the licence data. This enables clients without access to standard GIS desktop applications to display the licence data, and determine ground status and joint venture availability. The area boundaries can also be downloaded off the minex.ie website.

Airborne Geophysical Data Release. No further data has been released since August 2004.

- **Target Areas Programme**

This programme was established to stimulate exploration interest in specific areas of the country by providing focussed information and added value to the ongoing data release programmes where appropriate. Four projects have been undertaken to date.



Map showing Prospecting Licence areas for which exploration data is available online. The coverage relates to all data released since 1st January 2000.

Data on Gold in Ireland. To increase the awareness of the gold potential of the country a digital release of all known gold localities in a GIS format was issued in 2004 in association with the Geological Survey of Ireland. The localities are described and also spatially located on a simplified geological map. The free CD also includes a review of the potential for gold mineralization, full bibliography and has been revised to update the status of exploration licence areas. The gold spatial data are also accessible through the **minex.ie** website.

Ballinalack Zn – Pb Deposit. The deposit has measured and indicated resources of 7.83 Mt grading 6.4% Zn and 1.0% Pb, hosted in a similar setting to the Lisheen and Galmoy zinc – lead mines. All exploration data over this deposit and the adjacent area with the geology and drill hole locations in a GIS format was published on CD in March 2005. The Prospecting Licence areas relating to this deposit in Co. Westmeath are currently available under competitive application.

Cregganbaun Au Prospect. Exploration in the area of this vein hosted gold prospect has demonstrated extensive gold mineralisation, with grades of up to 270 g/t Au. The prospect is located in a 10 km long shear zone in deformed Ordovician sediments. A compilation of the exploration data, geology etc. for the prospect and adjacent areas was published in May, 2005 and is available free on CD. The ground is now being made available for exploration (see page 6).

The Airborne Magnetic Interpretation Project, in partnership with PGW Europe Ltd., continues to be delayed. Focussed on three blocks covering part the Central Basin area, the digital products for the first of the blocks to be available have been completed and are being prepared for release.

Joint Venture Opportunities

Six prospecting Licence holders are seeking joint venture partners. The companies that have properties on offer are: Arcon Exploration, Asarco Exploration, Cambridge Mineral Resources, Glencar Mining, Minco, and Mineral Estates (Ireland) Ltd. A booklet providing details of the licence areas on offer is available from the Exploration and Mining Division.

PDAC Convention 2005, Toronto

The 73rd Annual Convention and Trade show of the Prospectors and Developers Association of Canada (PDAC) was held in Toronto from 6th to 9th March 2005. The Exploration and Mining Division took its usual stand location at the Trade Show, adjacent to colleagues from Northern Ireland (Department of Enterprise, Trade and Investment, and the Geological Survey of Northern Ireland), in a combined 'Ireland' exhibit. The PDAC meeting is the biggest of its kind in the world, and this year had an estimated attendance of 11,500, the largest in its history. There was abundant evidence of increased funding available for exploration, and increased interest in exploration in Ireland from several major as well as junior companies.

APPENDICES

- **Publicly Available Prospecting Licence Area Data**
- **Addresses of Companies holding State Facilities**
- **Specimen Forms**

PUBLICLY AVAILABLE PROSPECTING LICENCE AREA DATA

Public viewing access

Publicly available Prospecting Licence area data consists of non-confidential company work reports both on surrendered Prospecting Licences and on work more than 6 years old concerning current Prospecting Licences. This 'open file' 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:

- Access to the Databank held by GSI. By making an appointment with the Minerals Section to come and view the papers at the GSI (see contacts below), or by visiting the GSI Customer Centre and accessing the databanks through the public computer system.
- Digital copies. These may be obtained from GSI at a cost of €50 per CD. All digital data from EMD is free.
- Photocopies. These are supplied at cost. Currently the charges are: A0 €6.00; A1 €5.00; A2 €3.00; A3 €0.30; A4 €0.15

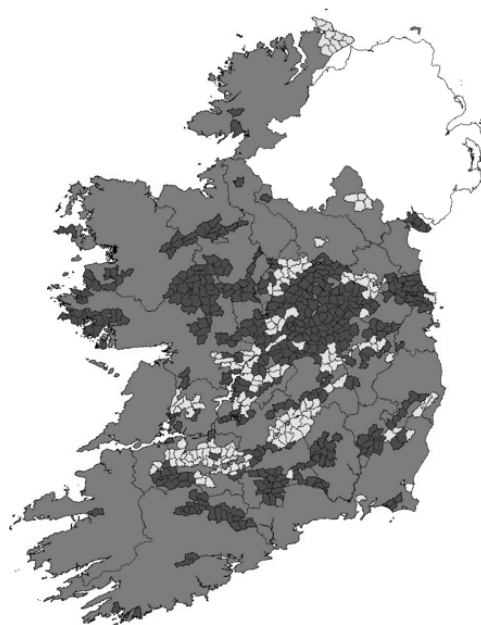
For appointments or further information, please contact either the **Geological Survey**, Ms I. Hogan of the Minerals Section, Tel: 01-6782751, Fax 01-6782589, or the **Exploration and Mining Division** (Ms. M. Flavin, Tel: 01-6782671, Fax: 01-6609627).

Catalogue of Open File Data

A digital copy of the 'Catalogue of Exploration Company Open File Data' is available free of charge from the Geological Survey. The catalogue lists all of the approximately 75,000 individual items (reports, maps, sections, drill logs), which are currently held in the open file system. The Catalogue is available as an Access database on CD and may be obtained by applying to Ms I. Hogan of the Minerals Section, Tel: 01-6782751, Fax 01-6782589.

Online Data Availability

Since mid-2003 the Exploration and Mining Division have been progressively providing publicly available company exploration data released since 1st January 2000 on the **minex.ie** website. Data relating to over 550 PL areas, including those in the current PL competition, are now available (also see p.22).



Map showing Prospecting Licence areas for which exploration data is available online. The coverage relates to all data released since 1st January 2000.

Prospecting Licence Areas with Exploration Data Availability

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

- **Additions from surrendered Prospecting Licences since 1st November, 2004**

Clare	Galway	Mayo
3809	4	2397
3810	2297	2398
	3615	2399
Kilkenny	3861	2640
3928	3927	2641
	3928	3148R
Limerick	Meath	Offaly
3608	3622	1341
		1342
Tipperary	Longford	1343
3476	184	2522
3475	1588	2782
3476	2579	3868
3477	3634	
Westmeath		
1344		
1345		
1346		
2866		

- **Additions from currently held Prospecting Licences since 1st November, 2004**

Dublin	Galway	Laois	Tipperary
3220	541	*586R	2069
	643	754	2258
Louth		1652	2447
3842	Kilkenny	1653	2448
	*586R	2218	3262R
Meath	3245R	3312	3318
3660	3313	3688	3569
3839			

- **Additions from Companies seeking Joint Venture partners since 1st November, 2004**

Offaly	2702
1341	2782
1343	2866
2522	3862

- **Consolidated List**

PL area numbers in bold italics refer to areas for which company exploration data can be viewed online (www.minex.ie) or obtained free from the Exploration and Mining Division where file sizes are too large. Data relating to all other area numbers are available from the Geological Survey of Ireland (see page 26).

Co. Carlow	3572	3808	2948	3671
1476	3579*	3809	2949	3702
1477	3623	3810	2953	3716
1597	3624		2967	3717
2404		Co. Cork	2983	3718
2832	Co. Clare	1554	2998	3723
2930	11*	1780	3010	3733
2931	742	1786	3011	3741
3407	1951	1940	3012	3801
3411	1952	2024	3013	3805
3711	2317	2033	3014	3823
3893	2414	2048	3033	3860
3894	2415	2260	3046	3899
	2571	2280	3047	3900
Co. Cavan	2590	2381	3049	3901
1051	2892	2392	3050	3902
1135	2895	2393	3107	
1136	2896	2394	3108	Co. Donegal
1140	2945	2395	3187	1414
1142	3005	2437	3202	2072
1695	3057	2439	3203	2073
1696	3116	2442	3204	2083
1697	3225	2444	3228	2084R
2139	3501	2484	3229	2085
2140	3502	2485	3230	2086
2827	3503	2487	3231	2087
2965	3504	2597	3294	2088
2966	3508	2599	3295	2110
2988	3509	2637	3328	2111
3130	3550	2708	3338	2112
3131	3640	2713	3365	2115
3269	3641	2730	3435	2116
3270	3642	2732	3536	2118
3277	3643	2740	3537	2246R
3400	3644	2812	3538	2290
3414	3679	2813	3586	2349
3526	3728	2814	3587	2351
3539	3729	2815	3605	2354
3540	3780	2899	3612	2357R
3562	3787	2901	3613	2358
3563	3788	2902	3619	2359
3564	3789	2946	3626	2545
3566	3806	2947	3656	2546

2547	3090	Co. Galway	2092	2959
2548R	3091	2	2093	3043
2727	3092	4	2094	3080
2795	3093	15	2095	3081
2796	3094	16	2096	3101
2798	3095	134	2097	3144
2799	3118	497	2098	3145
2800	3119	541	2099	3166
2801	3120	643	2100	3167
2802	3121	694A	2245	3169
2803	3122	767	2295	3170
2804	3123	769	2296	3226
2810	3128	930	2297	3227
2811	3132	934	2301	3251
2816	3133	939R	2318	3280
2817	3134	952	2449	3307
2818	3135	1102	2450	3362
2819	3136	1105	2451	3429
2960	3153	1235	2452	3459
2961	3233	1362	2520	3470
2962	3236	1364	2521	3471
2964	3315	1375	2526	3479
2991	3326	1376	2532	3480
2992	3327	1382	2533	3482
3007	3361	1431	2570*	3505
3008	3371	1432	2583	3506
3020	3372	1677	2584R	3507
3021	3496	1700	2585R	3567
3022	3543	1704	2646	3578
3023	3557	1762	2647	3615
3024	3820	1764	2685	3637*
3025	3855	1788	2686	3680
3026	3856	1789	2687	3681
3035		1790	2689*	3692
3036	Co. Dublin	1791	2700	3742
3037	1454	1794	2724	3743
3038	2697	1795	2734	3755
3039	2710*	1796	2760	3756
3040	2968	1797	2848	3757
3056	3045	1798	2885	3758
3062	3139	1799	2886	3781*
3063	3143	1800	2887	3818
3069	3218	1958	2888	3840
3070	3219	1959	2889	3861
3071	3220	1960	2932	3862
3072	3221	1979	2938	3879
3073	3284	1980	2939	3880
3074	3664	1982	2940	3881
3079	3665	1983	2941	3882
3088	3821	2090	2942	3883
3089	3865*	2091	2943	3884

3885	1604	3195	1652	2993
3886	1607	3211	1653	3086
3897	1608	3213	1654	3162
3898	1630	3214	2217	3568*
3913	1631	3215	2218	3585
3914	1632	3216	2219	3673
3927	2062*	3242	2320	
3928	2513	3245R	2321	Co. Limerick
	2514	3313	2322	449
Co. Kerry	2516	3325*	2474	450
1911	2518	3345	2476	468*
2029	2822	3353	2512	635
2030	2823	3354	2623	636
2214	2824	3355R	2624	786
2270	2830	3357*	2625	1302
2586	2831	3360*	2627	1303
2777	2834	3404	2747	1457
2869	3329	3409	2748	1583
2933	3330	3520	3009	1584
2934	3331	3521	3147	1942
2935	3332	3522	3158	1943
2954	3374	3523	3160	1945
3016	3427	3524	3239	1946
3076	3433*	3525	3263	1947
3077	3434	3559	3312	1948
3281	3547	3560	3322	1949
3370	3549	3645*	3356	2529
3493	3610	3693	3357*	2530
3494	3614	3694	3438	2531
3495	3649	3695	3458	2579
3554	3684	3696*	3533	2594
3555	3777	3708	3542	2638
3556	3792	3709	3662	2696
3742	3793	3736*	3667	2756
3755	3794	3737	3674	2762
3756	3795	3738	3675	2835
3757	3796	3739	3688	2840*
3758	3846	3740	3736*	2845
3783	3865*	3828	3853	2850
3834		3829		2872
3835	Co. Kilkenny	3830	Co. Leitrim	2927
3836	586R*	3832	563	3199
3837	1814	3928	879*	3249
3838	1815		1469	3267
3847	1913	Co. Laois	1668	3268
	2821	586R*	1670	3279
Co. Kildare	2958	754	1672	3293*
600	2996	1640	1673	3308
1316	3105	1641	1675	3309
1317	3113	1646	2776	3342
1318	3165	1650	2881	3343

3344	3633	2496	3391	1440R
3366	3634	2497	3392	1450*
3367		2498	3393	1451R
3368	Co. Louth	2499	3394	1453R
3369	1040	2500	3395	1489R
3431	2201	2501	3419	1496
3457	2271	2502	3420	1500
3488	2742	2503	3423	1601
3489	3053	2504	3424	1661R
3544	3276	2505	3467	1991
3545	3278	2506	3510	2021
3581	3413	2507	3514	2063
3582	3701	2508	3515	2540
3608	3730	2610	3761*	2778
3650	3841	2640	3764	2779
3651	3842	2641	3765	2836
3654	3843	2643	3766	2837
3661	3911	2644	3767	2882
3705		2645	3768	2883
3824	Co. Mayo	2875	3769	2884
	547	2879	3770	2928
Co. Longford	663	2880	3771	3060*
184	743	2908	3772	3184
185	1022	2909	3773	3260
186	1028	2910	3774	3261
580	1029	2911	3790	3300
581	1030	2912	3791	3301
582	1031	2976	3811	3341
622	1032	3052	3812	3346
666	1035	3125	3876	3373
667	1530	3126	3887	3410
1358	1531	3127		3558
1586	1562	3148R	Co. Meath	3609
1587	1679	3149	1053	3611
1588	1804R	3150	1171	3621
1801	1805	3151	1174R	3622
1802	1806	3173	1177	3635
1803	1810	3176	1319	3636
2579	1811	3182	1322	3660
2664	1812	3240	1323	3731
2698	2225	3253	1324	3732
2774	2226	3255	1325	3819
2775	2229	3257	1327	3825
2780	2306	3258	1328R	3839
2989	2319	3303	1331	3851
3363	2396	3304	1332	3852
3364	2397	3337	1333	3873
3527	2398	3378	1334	3874
3628	2399	3379	1338	3875
3629	2401	3389	1339	3909
3630	2495	3390	1380R	3910

3912	2522	1905	1580	2258
3925	2536	2101	1660	2286
3926	2537	2103	1688	2326
	2538	2329	1689	2447
Co. Monaghan	2539	2330	1690	2448
1356	2560	2523	2489	2471R*
1357	2561	2524	2490	2564
1870	2563	2613	2491	2567
2193	2663	2652	2493	2568
2194	2669	2653	2772*	2604
2254	2670	2666	2870	2621
2416	2671R	2705	2916	2622
2677	2702	2772*	2917	2654
2678	2757*	2784	2921	2655
2679	2758	2787	2923	2657
2680	2759	2788	3099	2717
2681	2781	2981	3380	2718
2682	2782	2982	3381	2839
2683	2786	3059	3382	2844
2828	2859	3163	3383	2852
3027	2860	3248	3384	3032
3028	2861	3436	3385	3082
3066	2864	3460	3386	3097
3068	3115	3474	3387	3156
3209	3129	3561	3388	3161
3469	3159	3685	3396	3185
3905	3266	3637*	3430	3188
	3273	3686	3666	3189
Co. Offaly	3283	3744	3734	3246
480	3302	3745	3735	3262R
481	3417	3746	3915	3316
607	3418	3747	3916	3317
608	3432	3748	3919	3318
649A	3475*	3749		3319
890	3648	3750	Co. Tipperary	3320
1108	3813	3751	72	3321
1110	3814	3752	73	3358
1111	3854	3753	74	3359
1113	3868	3754	350	3360*
1178	3907	3759	468*	3401
1341	3920	3760	605	3402
1342		3761	626	3403
1343	Co. Roscommon	3762	627	3421
1377	562	3763	1575	3425
1378	1046R	3781*	1577	3426
1624	1310	3848	1578	3439
1628	1663	3917	1753	3440
1919	1665		2026	3441
2016	1667	Co. Sligo	2027	3447
2019	1680	757	2068	3448
2323	1899	1565	2069	3451

3452	1555	<i>1229</i>	1185	3484
3453	1556	<i>1244</i>	1188	3595
3454	1966	<i>1245</i>	1190	3597
3455	1967	<i>1344</i>	1191	3663
3456	1985	<i>1345</i>	1192	3822
3475*	1986	<i>1346</i>	1193	3895
3476	1987	<i>1347</i>	1194	3896
3477	1988	<i>1349</i>	1196	
3497	1990	<i>1351</i>	1197	Co. Wicklow
3499	2035	<i>1352</i>	1198	415
3552	2036	<i>1353</i>	1199	1473
3569	2752	<i>1383</i>	1200	1715
3573	2754	<i>1384</i>	1201	1716
3617	3190	<i>1385</i>	1541	2239
3618	3191	<i>1387</i>	1542	2240
3645*	3192	<i>1388</i>	1813	2241
3646	3193	<i>1406</i>	2053	2255
3647*	3194	<i>2674</i>	2236	2421
3668*	3201	<i>2675</i>	2237	2426
3669	3205	<i>2676</i>	2238	2429
3670	3206	<i>2757*</i>	2267	2430
3677	3207	<i>2866</i>	2268	2432
3678	3208	<i>3152</i>	2543	2470
3689	3323	<i>3232</i>	2544	2558
3690*	3518	<i>3324</i>	2551	3029
3696*	3519	<i>3405</i>	2552	<i>3030</i>
3697*	3570	<i>3406</i>	2553	3138
3698	3571	<i>3528</i>	2554	3210
3699	3574	<i>3529</i>	2555	3265R
3700*	3690*	<i>3530</i>	2556	3272
3703	3707*	<i>3531</i>	2557	3285
3704	3713	<i>3575</i>	3001	3286
3705*	3714	<i>3576</i>	3031	3289
3706	3715	<i>3583</i>	3155	3291
3707*	3719	<i>3588</i>	3196	3292
3712*	3720	<i>3589</i>	3197	3334
3727	3724	<i>3638</i>	3198	3335
3782		<i>3639</i>	3237	3565
3785	Co. Westmeath	<i>3652*</i>	3264	3606
3826	382	<i>3653</i>	3274	3798
3827	505	<i>3655</i>	3275	3799
3844	506*	<i>3658</i>	3296	3849
3845	619	3659	3297	3850
3878	1043	<i>3722</i>	3298	3857
3892	1044	<i>3813*</i>	3299	3864
3904	1117	<i>3877</i>	3463	3906
	1179		3464	
Co. Waterford	1181	Co. Wexford	3465	
405	1226	1183	3466	
735	1228	1184	3483	

ADDRESSES OF COMPANIES HOLDING STATE FACILITIES

Prospecting Licences

Amcorp Ireland Ltd.
Unit 10B
Loughboy Industrial Estate
Kilkenny

Cambridge Mineral Resources Plc.
Simmonds House
Simmonds Buildings
Bristol Road, Hambrook
Bristol BS16 1RY
England

Aurum Exploration Ltd.,
40/41 Watergate Street
Navan
Co. Meath

Central Mining Finance
Charter Plc
52 Grosvenor Gardens
London SW1W OAU
UK

Arcon Exploration Plc.
The Old Schoolhouse
Galmoy
Co. Kilkenny

Clare Calcite Ltd.
Block 4b, Unit 5
Blanchardstown Corporate Park
Dublin 15

Arcon International Resources Plc.
60 Merrion Road
Ballsbridge
Dublin 4

Connemara Mining Co. Ltd.
162 Clontarf Road
Dublin 3

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

Conroy Diamonds and Gold Plc
10 Upper Prmbroke Street
Dublin 21

BHP World Exploration Inc.
2300-1111 West Georgia Street
Vancouver BC
Canada V1E 4ME

John Gannon
Forth Browne
Lavally
Tuam
Co. Galway

Glencar Mining Plc.
71 Lower Baggot Street
Dublin 2

Jadebay Ltd
9 Marine View
Phoenix Terrace
Blackrock
Co. Dublin

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

Navan Resources Plc.
Rafterys Bungalow
Cagerlivene
Loughrea
Co. Galway

Ormonde Brick Ltd.
Castlecomer
Co. Kilkenny

Ovoca Resources Plc.
Adrigole
Beara
Co. Cork

Rennicks and Bennett Ltd.
c/o Tara Mines Ltd.
Knockumber,
Navan,
Co. Meath

Tara Mines Ltd.
Knockumber House
Knockumber
Navan
Co. Meath

Westland Exploration Ltd.
11 Mespil Road
Dublin 4

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

Dan Morrissey (Ireland) Ltd.
Bennykerry House,
Carlow

Noranda Exploration Ireland Ltd.
35 Cleevaun
Craddockstown Road,
Naas
Co Kildare

Oriel Selection Trust Ltd.
15 Joel Terrace,
East Pert,
6004 Western Australia

Rio Algom Exploration Inc.
c/o BHP-Billiton
2300-1111 West Georgia Street
Vancouver BC
Canada V1E 4ME

Sabina Resources Ltd
55 Westchester Drive
London
Ontario N6G 2K6
Canada

Tournigan Gold Corporation
Suite 520-000,
West Pender Street,
Vancouver, BC
Canada, U6C 2U6

Mining Facilities

**The Lisheen Mine Partnership
Anglo American Exploration Ireland Ltd.**
The Lisheen Mine
Killoran, Moyne
Thurles
Co. Tipperary

Eurostone Ltd.
Gouldshill House
Mallow
Co Cork

Flemings Fireclays Ltd.
The Swan
Athy
Co. Kildare

Flynn & Lehany Coal Mines Ltd.
c/o Mr. John Barrett
17 Castle Street
Dalkey
Co. Dublin

Irish Gypsum Ltd.
Unit 14
Park West Industrial Park
Dublin 12

Roadstone Provinces Ltd.
Saggart
Co. Dublin

Arcon Mines Ltd.
60 Merrion Road
Ballsbridge
Dublin 4

Joyces Marble Quarries Ltd.
Lissoughter
Recess
Connemara
Co. Galway

Killoran Lisheen Mining Ltd.,
Killoran.
Moyne,
Thurles,
Co Tipperary

Lisheen Milling Ltd.
41/45 St. Stephen's Green
Dublin 2

Ormonde Brick Ltd.
Castlecomer
Co. Kilkenny

Tara Mines Ltd.
Knockumber House
Navan
Co. Meath

SPECIMEN FORMS

Companies are required to complete and submit a number of forms during the 'life cycle' of obtaining and relinquishing Prospecting Licences. The key forms are listed below, and copies provided on the following pages for information.

- **Prospecting Licence Application Form**
- **Prospecting Licence Renewal Application Form**
- **Prospecting Licence Expiry/Surrender Form**
- **Confidential Work Summary Form**
- **Statement of Qualification Form**
- **Statement of Interest Registration Form**

These forms may be photocopied, downloaded from the www.minex.ie website or 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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.....
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.....

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

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.....
.....
.....
.....

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

.....
.....
.....
.....
.....

Company Telephone and Fax Number

.....

(4) Nationality of Applicant(s)

.....
.....
.....

(5) Occupation of Applicant(s)

.....
.....
.....

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).

.....
.....

.....

(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

.....

.....

(b) Which applicant can make available

.....

.....

and the source

.....

.....

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)

.....

.....

(b)

.....

.....

(c)

.....

.....

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 €190.00 per Prospecting Licence being the prescribed fee on application.

Signature(s) of Applicant(s)

.....
.....
.....

Date

.....

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.

PROSPECTING LICENCE RENEWAL APPLICATION FORM

Prospecting Licence No. Expiry Date.....

PL Area No..... Licence Holder(s).....

We wish to make an application for renewal of this Prospecting Licence.

We undertake to provide the documentation as listed below least 6 weeks prior to the licence expiry date (i.e./...../.....)/enclose the documentation herewith (delete as appropriate).

We accept that if all requirements are not provided by this date, this application to renew will be deemed invalid and the licence will not be renewed.

Requirements to be provided:

- The original of the licence document.
- A detailed account of work performed under the licence during the current phase, including details of all occurrences of minerals of potential economic significance. The relevant work report requirements are to be followed.
- The completed Confidential Summary of Work Form.
- Completed 'Statement of Qualification' Form
- Details of the proposed exploration programme for the next two years.
- A firm commitment to the relevant minimum expenditure requirements as given in the 1994 Terms, unless results, at any stage, indicate that further expenditure would not be justified. In that event, the licence will be immediately surrendered.
- Signed agreement to the conditions in the 'Form of Undertaking' (Form 3).

It is noted that no reminder for outstanding requirements will issue.

Signed.....
(authorised representative of the Licence holder)

Name of signatory (block letters).....

Date.....

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

(April 2005)

PROSPECTING LICENCE SURRENDER/EXPIRY FORM

A SEPARATE FORM SHOULD BE COMPLETED FOR EACH PROSPECTING LICENCE.

- 1. Prospecting Licence No..... Issue date
- 2. Area No: County:.....
- 3. Licence Holder:.....
- 4. Surrendered / expired with effect from :
- 5. (a) Has any work been carried out in the area since submission of the last renewal report? **YES/NO**
- (b) If **YES** has this work been reported to the Exploration & Mining Division **YES (Date.....)/ NO**

Note: A FINAL REPORT IS REQUIRED. If it has not been sent in, it MUST be submitted not later than THREE WEEKS after the date that this form is sent. If no work has been done since submission of the last work report, reasons should be given in the final report.

- 6. (a) Has Diamond drilling with core recovery been carried out at any time during your tenure of the licence? **YES/NO**
- (b) If **YES**, please indicate
 - (i) No. of holes
 - (ii) Total meterage
 - (iii) Location where core is stored
 - (iv) Contact name for access to core
- 7. Do you intend to retain the core? **YES/NO**

Note: If you do not intend to retain the core it must not be disposed of until written authorisation is received from EMD and signed by an Inspector of the Department of Communications, Marine and Natural Resources. Core disposal must be sought in writing (with appropriate details of core and location map) from the Exploration and Mining Division.

Signed:
 (Authorised representative of the Licence holder)

Name of signatory (block letters) Date:

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

(April 2005)

CONFIDENTIAL SUMMARY OF WORK

Every Work Report (i.e. for each Prospecting Licence area), must be accompanied by a completed "Summary of Work" form. This summary should include all work carried out in the Prospecting Licence area during the period to which the report relates (generally the previous two years).

Please answer for all categories of work. If no work was carried out, enter "None". For these entries, no entry is required for the "Cost" window. Costs should be entered to the nearest €100.

Prospecting Licence Area

Date issued

Work period From to

Licensee

Operator

Type of report (X in box) 1. Renewal 2. Review 3. Expiry 4. Surrender

Submitted by

Date

Signature

WORK CARRIED OUT

Geology

(a) Geological Mapping Area (sq. km) Cost €

(b) Prospecting

Other Technique (c)

(d)

Geochemistry

	Number of samples	Cost €
(a) Soil	<input type="text"/>	<input type="text"/>
(b) Stream sediment	<input type="text"/>	<input type="text"/>
(c) Deep overburden	<input type="text"/>	<input type="text"/>
(d) Lithochemochemistry	<input type="text"/>	<input type="text"/>
(e) Assays (core)	<input type="text"/>	<input type="text"/>
Other Sample type		
(f) <input type="text"/>	<input type="text"/>	<input type="text"/>
(g) <input type="text"/>	<input type="text"/>	<input type="text"/>

Geophysics

(a) Airborne	(i) Magnetics	<input type="text"/>	Area (sq. km)	<input type="text"/>	Cost €	<input type="text"/>
	(ii) EM			<input type="text"/>		<input type="text"/>
		Other Technique				
	(iii)	<input type="text"/>	Area (sq. km)	<input type="text"/>	€	<input type="text"/>
	(iv)	<input type="text"/>		<input type="text"/>		<input type="text"/>
(b) Ground	(i)	IP / Resistivity		<input type="text"/>		<input type="text"/>
	(ii)	EM (incl TEM)		<input type="text"/>		<input type="text"/>
	(iii)	Gravity		<input type="text"/>		<input type="text"/>
	(iv)	VLF EM		<input type="text"/>		<input type="text"/>
		Other Techniques				
	(v)	<input type="text"/>		<input type="text"/>		<input type="text"/>
	(vi)	<input type="text"/>		<input type="text"/>		<input type="text"/>
(c) Borehole geophysics			Number of holes	<input type="text"/>		<input type="text"/>

Drilling and Trenching

	Number of holes	Metres drilled	Cost €
(a) Diamond drilling (cored)	<input type="text"/>	<input type="text"/>	<input type="text"/>
(b) Open hole drilling	<input type="text"/>	<input type="text"/>	<input type="text"/>
		Metres trenched	
(c) Trenching		<input type="text"/>	<input type="text"/>

Other work

(a) Environmental		€ <input type="text"/>
Other Type of work		€
(b) <input type="text"/>		<input type="text"/>
(c) <input type="text"/>		<input type="text"/>
6. Total estimated cost of all work carried out		€ <input type="text"/>

The proposed exploration programme for the next two years will include:

.....

.....

.....

.....

(April 2005)

STATEMENT OF QUALIFICATION FOR TECHNICAL REPORTS

This declaration is to be completed by the author or individual responsible for endorsing and signing off technical reports, and to be attached to the front of the report.

PL(s).....

County(ies).....

Period.....

Declaration

The attached report has been approved by the undersigned, a Qualified Person as recognised by the Exploration and Mining Division, Department of Communications, Marine and Natural Resources.

Name (Capitals).....

Professional Association (current membership).....

.....

Relevant area(s) of expertise as recognised by the Professional Association

.....

Signature.....

Date.....

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 Licence Areas.
.....
as marked on the attached copy of the relevant part of the most recent map of 'State Mining and Prospecting Areas' 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

.....

.....

.....

.....

Date:

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