

Data Mining

Or

Data Exploration

Efficient Use of Mineral Titles Online Data

A LandTrack Systems White Paper

By Justin von Perger

February 2015



Data Mining or Data Exploration: Efficient Use of Mineral Titles Online Data



Over the past few months there has been much talk about “Data Mining” and what effect it has on the Mining Industry of WA, with leading Kalgoorlie prospectors highlighting that a number of companies using “Data Mining” software on Mineral Titles Online (MTO) have an unfair advantage acquiring ground.

In response, the Department of Mines and Petroleum (DMP) has instigated a crackdown on companies using screen scraping software on MTO, while committing to create systems to provide equitable access to tenement data. This press release from Feb 16 2015 summarises the DMP’s position:

New user-friendly online tenement system

Monday, 16 February 2015

The Department of Mines and Petroleum (DMP) has moved to address industry concerns over ‘data mining’ of State Government computer systems.

A number of prospectors have expressed concern over the prevalence of large companies using special software to ‘crunch’ DMP online systems, in a bid to gain an advantage in securing surrendered tenements.

DMP’s Executive Director of Mineral Titles Dr Ivor Roberts said ‘data mining’ had become so intense it was disrupting the department’s online systems.

“To ensure equity, over the next few months the department will establish an online system where availability of tenements will be provided free of charge, following the registration of surrender,” Dr Roberts said.

The information will be visible to everyone at the same time, via the department’s website and distributed as a RSS feed, similar to the public lodgement notification of new tenement applications.

Additionally, detailed and cost-free tenement information from the department’s systems will be available for download the following day, alleviating the need for large companies to trawl through the department’s online systems for compliance purposes.

“This will help companies audit and manage their tenements for compliance as well as determine when ground is available, without the need for ‘data mining’,” Mines and Petroleum Minister Bill Marmion said.

“The data will not, however, include any pre-registration information that may indicate the surrender of a tenement.”

The online modifications follow extensive consultation with industry.

‘Data mining’ of DMP’s Mineral Titles online systems is a breach of their terms and conditions of use.

http://www.dmp.wa.gov.au/7105_21325.aspx

The following email from Phil Boyland, Manager, Legislation and Compliance, Mineral Titles on Feb 11 2015 also indicated the timeline for implementing the changes (our highlighting):

As a consequence of your comments, and those of others in the mining industry, the following actions are proposed by the Mineral Titles Division.

1. Tenement information will be available that is up to 24 hours old free of charge. This will assist companies to audit and manage their tenements for compliance purposes.
2. Information about the availability of ground will be provided for free following the registration of surrender by releasing this information on our website and as an RSS feed in a manner similar to the public lodgement notification of new tenement applications. This action will ensure that information on ground available to

Data Mining or Data Exploration: Efficient Use of Mineral Titles Online Data



everyone at the same time and ensuring equity across the mining industry.

Computer programming and modifications to our existing system is necessary to implement these actions. It is intended that action 1 will be completed before the end of March and Action 2 before the end of April.

In the coming week, the benefits of implementing the actions being considered will be explained in full to all members of MILC, the major tenement consultants, and leading Kalgoorlie prospectors, and will be outlined in the next Mineral Titles Newsletter.

Telephone conversations with the Department on Wed, 11th March 2015, have confirmed that the Department is on track to deliver Action 1 by the end of March. This will be in the form of an option on the Tenement Data XML Extract to supply historical data for free. This data will be emailed overnight instead of immediately.

Action 2 is being worked on and at this stage looks like being ready by the end of April. This is likely to take the form of an RSS Feed being released to the public after 4:30pm each day containing all details of tenement surrender dealings. Until this release these dealings will not be visible on MTO or available for download via the paid Tenement Data Extract.

Releasing information every afternoon in this way would create a de facto moratorium period, where every explorer in WA has at least 16 hours to lodge an application and thus enter a ballot for the ground. Releasing information incrementally over the day creates an alternative scenario where whoever can lodge an application soonest (possibly even by having them pre-prepared on MTO and just entering credit card details) becomes the winner. However once the RSS feed is in place, it is a relatively simple matter to switch from one scenario to the other.

In the meantime, interested parties are advised by the DMP to subscribe to the existing Application Advertising RSS Feed to become familiar with how RSS Feeds work. Below is information about this and how to subscribe.

LandTrack Systems will be continuing to work with the DMP and our clients to ensure we maintain timely access to tenement data for compliance and monitoring purposes. If you would like to be kept informed of progress, contact us and we will add you to our mailing list for developments in this area.

What is an RSS feed?

'Really Simple Syndication' (RSS) is a format for delivering regularly changing web content. It allows you to easily stay informed by retrieving the latest content from sites of interest. You set up subscriptions using a special hyperlink, and then the RSS software will monitor that location for changes and notify you when something new has been released.

Data Mining or Data Exploration: Efficient Use of Mineral Titles Online Data



RSS feeds are checked regularly by your RSS software, ranging from daily to every few minutes. The more often your software refreshes the feed, the sooner you will be informed after a new item has been added to the feed. The major benefit of this approach is that you no longer need to keep manually checking MTO for dead tenements – software on your computer or mobile device will alert you automatically.

RSS servers can be configured to cut off subscribers who exceed the recommended refresh interval, so while there is an obvious competitive advantage to refreshing as frequently as possible, this may result in you being cut off. Enabling this feature may be a policy the DMP decides on.

Setting up a Tenement Applications RSS Feed in Microsoft Outlook

We'll show you how to setup the RSS feed with Microsoft Outlook to look for tenement applications within a certain district.

1. Log into Mineral Titles Online
2. Go to *Enquiry* -> *Application Advertising*



3. The Mining Tenement Application Advertising (Mining Notices) window will be open
4. You can setup your filter in the top section – Tenement Type, District etc
5. When you've done setting the filter press *Search* to generate the updated feed

Data Mining or Data Exploration: Efficient Use of Mineral Titles Online Data



- Right click the "Search Results" RSS icon, and select *Copy Link Address*. This will save the RSS address to the clipboard for use in Outlook

Government of Western Australia
Department of Mines and Petroleum

Mining Tenement Application Advertising (Mining Notices). Select for further information. RSS

Find Tenements By Type:
 E - Exploration Licence
 M - Mining Lease
 P - Prospecting Licence
 L - Miscellaneous Licence

Applied for By Anyone:

in: 29 - MENZIES or in the Shire:

Lodged Between:

Search Results RSS

TENEMENT APPLICATIONS

Exploration Licence 29/947
 Application Received: 11/02/2015 08:30:00
 Applicants:

| | |
|---|---------|
| SELGA, Mark | 100/100 |
| 1 TRENTBRIDGE RD, HOPE VALLEY, SA, 5090 | |
| SAME AS CORRESPONDENCE | |
| ABN | |

 Location: 9KM SW of Menzies
 Area: 4 BL
 Shires: MENZIES SHIRE
 Blocks:

| Million Plan | Primary Number | Graticules | Number of Graticules |
|--------------|----------------|------------|----------------------|
| KALGOORLIE | 1452 | mrwv | 4 |

 Objections: Objections to any mining registrar's office by 18/03/2015

Exploration Licence 29/946
 Application Received: 22/01/2015 08:30:00
 Applicants:

| | |
|--|---------|
| Org FMG RESOURCES PTY LTD | 100/100 |
| ACQUISITIONS AND TENEMENTS DEPARTMENT, PO BOX 3379 HAY STREET, EAST PERTH, WA, 6004 | |
| SAME AS CORRESPONDENCE | |
| ABN ACN 095 546 428 | |

 Location: PERRINVALLE OUTCAMP
 Area: 5 BL
 Shires: MENZIES SHIRE
 Blocks:

| Million Plan | Primary Number | Graticules | Number of Graticules |
|--------------|----------------|------------|----------------------|
| KALGOORLIE | 793 | qv | 2 |
| KALGOORLIE | 865 | af | 2 |
| PERTH | 864 | z | 1 |

 Objections: Objections to any mining registrar's office by 26/02/2015

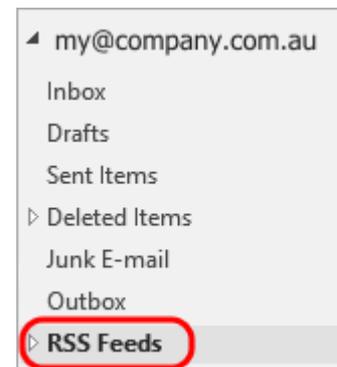
Exploration Licence 29/945
 Application Received: 07/01/2015 13:43:05
 Applicants:

| | |
|------------|---------|
| Org EMU NL | 100/100 |
|------------|---------|

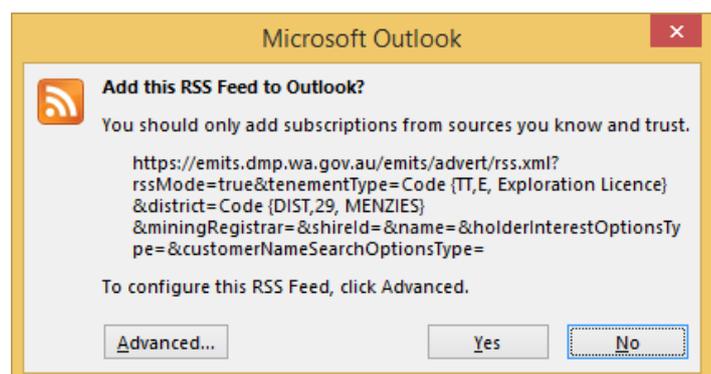
 Location: Perrinvale
 Area: 49 BL
 Shires: MENZIES SHIRE
 Blocks:

| Million Plan | Primary Number | Graticules | Number of Graticules |
|--------------|----------------|------------|----------------------|
|--------------|----------------|------------|----------------------|

- Open Microsoft Outlook
- Right click on *RSS Feeds* under your email account in the folder pane and select *Add a New RSS Feed...* You should see a small window asking you to enter the location of the RSS Feed
- Paste the previously copied link into the box provided and click *Add*



- You'll get another confirmation message - Click *Yes* to complete the process, otherwise clicking *Advanced...* will take you to *RSS Feed Options* where you can change the delivery location for the feed, automatically download attachments, or whether or not to use the provider's update limit. Once these steps are complete you should have an active RSS feed setup in Outlook.



Data Mining or Data Exploration: Efficient Use of Mineral Titles Online Data



The screenshot shows an Outlook mailbox interface. At the top, there are tabs for 'All' and 'Unread', and a search box containing 'Search Advertised Tenement App'. Below this is a table with columns: FROM, SUBJECT, RECEIVED, SIZE, and CATEGORIES. A single item is listed with the subject 'Advertised Tenement A.. E 29/947', received on 'Wed 11/02/2015 8:30 AM', and a size of '5 KB'. Below the table, the selected item is previewed. It shows the title 'E 29/947' and 'Advertised Tenement Applications'. The 'Posted On' date is 'Wed 11/02/2015 8:30 AM' and the 'Feed' is 'Advertised Tenement Applications'. The main content of the preview is 'Application received on:11/02/2015 08:30:00'. Below this, the following details are listed: 'Area: 4 BL', 'Shire: MENZIES SHIRE', and 'Applicants: SELGA, Mark'. At the bottom of the preview, there is a blue link that says 'View article...'.

The RSS Feed will look similar to an Outlook mailbox, where selecting an item will show you a preview in the reading pane. The *View Article* link will take you to the application on Mineral Titles Online. The update limit set by the DMP's RSS feed is 15 minutes. This means that the feed can be updated at a minimum of 15 minutes - this interval is setup by default.

RSS on mobile devices

There are a number of free or low cost RSS apps available for Android or IOS.

Android - *Feedly, Press, Flyne*

IOS - *Feedly, Newsify, Feedler*

If your Outlook account is also synced to your mobile device, you can view the RSS Feed through your device's mail app.

With this setup, you will be able to see how easy it will be to track ground becoming available, creating a 'more level playing field' in land acquisition.



LandTrack Systems

Dependable software tools that simplify land acquisition and management