July 2023

Northern Saskatchewan Mineral Exploration Highlights

Inside

The Front Page	.3
Regional Activity	.8
Commodities at a Glance	18
Advertisements	25
Company Directory	30
Exploration Service Directory	31

Photo Credit: SK Uranium rock sample Ministry of Energy and Resources



(306) 425-4778 | office@kcda.ca

Advertising Rates and Details

Northern Saskatchewan Mineral Exploration Highlights is a monthly publication featuring public information gleaned from company websites and news releases into one convenient package.

We have direct email circulation to over 465 companies and individuals involved in northern Saskatchewan mining, exploration services, education, and government as well as northern First Nations, towns, and villages.

We offer a few different advertisement options, detailed below:

Announcements - Full Page - \$100 + GST/ Month

Full page announcements - ideal for companies making major company announcements, announcing of events, etc

Advertisements - Half Page - \$50 + GST/ Month

Half page advertisements - ideal for individuals or companies looking to advertise property lease options, equipment sales, etc

Business Card Ads - \$500 + GST/ Year

Business card ads - ideal for companies wanting to be included in our company directories. These companies are split into two categories: Mining companies, and Exploration Service companies. Business Card Ads are included with certain levels of sponsorship of our annual Core Days event.

If you wish to advertise with us, or receive further information, email office@kcda.ca or give us a call at (306) 425-4778

NEWS

SASKATCHEWAN SECOND-LARGEST GLOBAL PRODUCER OF URANIUM

13 June 2023
Government of Saskatchewan | saskatchewan.ca

Saskatchewan's nearly \$1 billion-a-year uranium industry made Canada the world's second-largest producer in 2022, according to **World Nuclear Association** (WNA) data. This puts the province ahead of previous frontrunners including Namibia and Australia. In 2021, Canada ranked third, while Kazakhstan has consistently placed first.

"Saskatchewan's uranium is key as the world looks to transition to sustainable power generation and source minerals from secure, democratic regions," Energy and Resources Minister Jim Reiter said.

While Saskatchewan's uranium production was impacted by COVID-19 related shutdowns in 2020 and 2021, the **Cigar Lake mine** and **McClean Lake mill** operated continuously throughout 2022, resulting in increased production. The reopening of the **McArthur River mine** and **Key Lake mill**, announced in February 2022, also contributed to increased Saskatchewan uranium production in the later months of the year.

In 2021, the Saskatchewan uranium industry employed 1,842 people. In 2023, the industry is currently expected to produce 15 million kilograms of yellowcake, almost double last year's number.

"Canada's global reputation as a stable, reliable supplier of uranium is truly a Saskatchewan success story, given that all Canadian uranium is produced in this province," Cameco President and CEO Tim Gitzel said. "Cameco's vision of energizing a clean-air world acknowledges the increasingly important role we know nuclear power must play in meeting the growing global demand for decarbonization, electrification, energy security and affordability. The WNA report proves once again that uranium produced in northern Saskatchewan is crucial for addressing the world's energy challenges now and into the future."

The province has occurrences of 23 of the 31 critical minerals on Canada's list and is home to the world's largest potash and high-grade uranium deposits. Abundant mineral resources, backed by a strong regulatory environment, competitive royalty and investment incentives, and a high-quality geological database have attracted many of the world's largest mining companies to the province.

NEWS

DENISON ANNOUNCES NEW RESULTS FOR WHEELER RIVER STUDIES

26 June 2023 World Nuclear News | world-nuclear-news.org

The company has released the full results of a feasibility study on in-situ leach (ISL) mining of the high-grade **Phoenix** uranium deposit and a cost update to its pre-feasibility study for conventional underground mining of the **Gryphon** uranium deposit. The deposits are part of the **Wheeler River** project in the Athabasca Basin of northern Saskatchewan, Canada.

Phoenix is planned to be the first **ISL** uranium mining operation in the Athabasca. The feasibility study, carried out by **Wood Canada Limited**, **WSP USA Environment and Infrastructure Inc**, **SRK Consulting (Canada) Inc** and **Newmans Geotechnique Inc** "confirms robust economics and the technical viability of an **ISR** uranium mining operation with low initial capital costs and a high rate of return", the company said. (**ISR** stands for in-situ recovery, a term often used instead of **ISL** in North America).

The study reflects several design changes and the results of a "rigorous technical de-risking programme" carried out since the publication of a pre-feasibility study for Phoenix in 2018, the company said. It "reflects independent third-party validation of the selection of the ISR mining method for Phoenix, and builds on the findings from a comprehensive and rigorous multi-year technical de-risking process highlighted by the highly successful completion of the leaching and neutralization phases of the Phoenix Feasibility Field Test in late 2022".

The company has reported an updated mineral resource estimate of 70.5 million pounds U3O8 (27,118 tU) for Phoenix, with 30.9 million pounds in the measured resources category and 39.7 million pounds of indicated resources.

The update to the pre-feasibility study for the basement-hosted Gryphon deposit focused on a review and update of capital and operating costs, Denison said. Mining and processing plans remain largely unchanged from the earlier study, apart from "minor scheduling and construction sequencing optimizations". The updated study shows the project as being "amongst the lowest-cost uranium mines in the world", providing an additional source of low-cost potential production, it added.

Denison President and CEO David Cates said the studies "confirm the robust economics of the two projects situated within the Company's flagship Wheeler River property, producing basecase after-tax net present values of CAD1.6 billion and CAD0.9 billion (USD1.2 billion and USD0.8 billion), respectively."

NEWS

Despite the "considerable capital cost pressures experienced by the global mining industry" over the past two years, the economics of an ISL operation at Phoenix remain "exceptionally robust", Cates added, and the company has already shifted its focus to advancing front-end engineering and design efforts, with a target of transitioning into detailed design before the end of the year. Wheeler River is a joint venture between Denison (90%) and JCU (Canada) Exploration Company Ltd (10%), with Denison as operator. Denison also owns 50% of JCU.

NEXGEN, METIS NATIONS SIGN IBA FOR ROOK 1 URANIUM PROJECT IN SASKATCHEWAN

15 June 2023 NexGen Energy Ltd | mining.com

NexGen Energy (TSX, NYSE: NXE; ASX: NXG) has signed an impact benefit agreement (IBA) with two Metis Nations in northern Saskatchewan covering all phases of the **Rook 1** uranium project. The project is located within an area to which the **Metis Nation-Saskatchewan Northern Region 2** (MS-S NR2), as represented by the **Metis Nation-Saskatchewan** (MN-S), assert constitutionally protected Indigenous right and interests, including title on which is project sits.

The IBA defines the environmental, cultural, economic, employment, and other benefits to be provided to the MN-S NR2 and the MN-S by NexGen in respect of the project, and to confirm the consent and support of the MN-S NR2 and the MN-S for the project throughout its complete lifecycle, including reclamation.

The IBA defines the environmental, cultural, economic, employment, and other benefits to be provided to the MN-S NR2 and the MN-S by NexGen in respect of the project, and to confirm the consent and support of the MN-S NR2 and the MN-S for the project throughout its complete lifecycle, including reclamation. This agreement grew out of a study agreement signed in 2019 by the parties.

"This is a significant moment in the project's history," **NexGen CEO Leigh Curyer** said in a news release. "Signing the fourth community and final benefit agreement to ensure sustainable generational impact through positive social, economic, and transparent environmental outcomes that will extend well beyond mine-dependent opportunities for all communities in the local priority area, the Province of Saskatchewan, and Canada."

The signing of the IBA with the MN-S follows the signing of benefit agreements with each of the Clearwater River Dene Nation, Birch Narrows Dene Nation, and Buffalo River Dene Nation.

NEWS

These four Nations collectively represent the First Nation and Métis communities for which the Saskatchewan Ministry of Environment assigned procedural aspects of the duty to consult for the project to NexGen, and which have been identified by NexGen as the primary Indigenous Nations for consultation in consideration of the federal requirements of the Canadian Nuclear Safety Commission.

The **Rook 1** uranium project is at the development stage, with the next step being to advancement of the front-end engineering design, which is to be completed by year end.

The pre-production capital cost if C\$1.3 billion, which will build an underground mine and mill in the southwest portion of the Athabasca Basin. The first deposit to be mined will be Arrow with measured and indicated resources of 3.8 million tonnes grading 3.10% uranium oxide containing 256.7 million lb. of U3O8 to support an initial mine life of 10.7 years.

FEDERAL INVESTMENT TO SUPPORT CLEAN ENERGY PLANNING WITH QUEST CANADA, PETER BALLANTYNE CREE NATION AND FROG LAKE FIRST NATION

2 June 2023 Natural Resources Canada | newswire.ca

SASKATOON, SK, June 2, 2023 /CNW/ - The Government of Canada is committed to working in collaboration with Indigenous partners, the energy and electricity sectors, and renewable energy leaders across Canada to tackle climate change, accelerate the transition to clean energy and create impactful and local economic opportunities.

Today, the Honourable Jonathan Wilkinson, Canada's Minister of Natural Resources, announced \$650,000 in funding for <u>QUEST Canada</u> to evolve and adapt its <u>Accelerating Implementation of Renewable Energy</u> (AIRE) for Indigenous Communities project to expand knowledge of local energy systems and developing pathways to accelerate clean energy opportunities in their community.

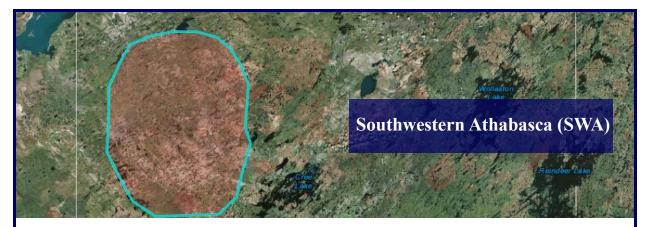
The adapted project, AIRE for Indigenous Communities, will be deployed over three years with three rural Indigenous communities: Pelican Narrows and Southend in Northern Saskatchewan, governed by the Peter Ballantyne Cree Nation, and Frog Lake First Nation in Alberta.

QUEST Canada will provide training and support for the participating communities in building capacity to plan and implement land-based renewable energy initiatives.

Indigenous AIRE will provide an entry point for Indigenous communities to work with QUEST on identifying and pursuing clean energy opportunities. QUEST Canada will provide training through the development of a publicly available toolkit that will provide remote, Indigenous communities with the means to establish and deploy more collaborative planning processes for local renewable energy development and will contribute to clean energy jobs, knowledge and skills development.

QUEST Canada and its partners also contributed to the project, bringing the total investment to \$1,154,000.

The Government of Canada is committed to the meaningful participation, ownership and decision-making by Indigenous Peoples in natural resources development as they expand innovative clean energy solutions to reduce emissions, advance self-determination, create good jobs and combat climate change.





F3 Uranium announced that mobilization is underway for the **PLN** Summer Drilling Program. Highlights include

-a 30-hole drill program will commence to expand on the winter drill results at the JR Zone.



Fission Uranium has commenced a 12-hole geotechnical drilling program at **PLS.** <u>Highlights include</u>

- -two stage, 12-hole drill program gathering engineering data for mine infrastructure and facilities
- -drilling data will be used to increase technical understanding of hydrogeological and geotechnical conditions
- -development on schedule through the permitting phase towards a construction decision.



Kiplin Metals has observed a significant increase in activity surrounding its **Cluff Lake Road (CLR)** uranium project

- noted the proximity of the CLR property to **F3 Uranium Corp**.'s (formerly Fission 3.0) **Patterson Lake North (PLN)** project.
- F3 discovered the JR high-grade uranium zone, and subsequent reports (refer to F3 press release dated Feb. 6, 2023) detailed intersections in drill hole PLN22-038, averaging 4.20 percent triuranium octoxide over 11.0 meters, including a high-grade interval of 9.8 percent U3O8 over 4.5 meters
- This discovery signifies the presence of a basement-hosted uranium deposit in the Athabasca region, similar to **Fission Uranium Corp.'s Triple R** uranium deposit



NexGen announced commencement of the summer exploration drill program on its 100% owned SW2 and SW1 properties in the southwest Athabasca Basin Highlights include

- -A total of 17,000 metres is planned for the summer with up to three (3) drill rigs in operation, bringing the 2023 exploration total planned metres to 22,500.
- **SW2**: Geophysical surveys have revealed prominent, stacked anomalies along the structurally complex **R7** (previously referred to as **R Seven**) and **Morrow corridors**. Drill testing with aggressive, first-pass steps is planned for these two prospective corridors along with follow-up drilling of **Arrow-proximal corridors** where high prospectivity is present
- SW1: 2023 summer drilling is planned along the under explored Gartner and Gambit corridors



Purepoint Uranium Group has published a comprehensive report (<u>Investing in Canada's Uranium Exploration: A Comprehensive Report of our Athabasca Basin Projects</u>) detailing its Athabasca projects Highlights include

- Summaries for Advanced Exploration projects: **Hook Lake, Red Willow, Turnor Lake, Smart Lake** and **Henday Lake** Projects
- Summaries for Drill Ready and Early Stage Projects: **Carson, Russel South, Tabbernor,** and **Tower** Projects
- Summary for VMS Project: Denare West Project



Stallion Discoveries announces that Mr. Darren Slugoski has joined the Company as Vice President of Exploration, Canada and will be based in Saskatoon, Saskatchewan. Stallion Discoveries also announces **Geotech Ltd.** (Geotech) has completed processing the data from the VTEMTM Plus electromagnetic (EM) and magnetic survey that covered all of Stallion's 100% owned 78,831 hectares in the Athabasca Basin, Saskatchewan.

- Stallion has engaged Condor North Consulting ULC ("Condor") to interpret the survey data
- interpretation includes a full range of services for processing, modeling, and analysis of geophysical data
- Stallion holds the largest contiguous land package in the western Athabasca Basin, when including its 100% owned and optioned joint-venture land with **Atha Energy**
- The Company is continuing to execute on its exploration plans with a view to identifying target zones and high potential drill targets later this year





92 Energy announces highly promising results from the recent EM survey conducted at its **Clover Uranium Project** in Canada's Athabasca Basin.

Highlights include

- Three electromagnetic (EM) conductors identified by the recent ground geophysical survey at the **Clover Project**
- The EM targets are interpreted to represent graphitic structural zones and are therefore highpriority targets for drill testing
- The survey targeted a major interpreted structural intersection between a regional scale northwest trending magnetic low that encompasses the McArthur River uranium mine and the northeast trending **Cigar Lake-Close Lake** uranium trend
- Planning is now underway to drill-test the EM conductors
- **Clover** sits 65 km to the northwest of **92 Energy's Gemini** uranium discovery, where drilling recently returned high-grade uranium assays of up to 9.7% U3O8



ATHA announced that it has appointed Mr. Troy Boisjoli as Chief Executive Officer of the Company to advance ATHA in its next phase of development, effective June 28, 2023. Concurrent with Mr. Boisjoli's appointment, Mike Castanho has resigned as Chief Executive Officer but will continue to serve as an independent director of the Company



Baselode announced diamond drilling has commenced on the **ACKIO** high-grade uranium zone for the **Hook** project

Highlights include

- 10,000 metres of diamond drilling planned for Hook summer 2023; anticipated to be complete by October and company is fully-funded to complete the program
- 7,500 metres allocated to delineation and expansion diamond drilling on ACKIO
- 2,500 metres partitioned in three to five areas for reconnaissance exploration to discover the next uranium zone on **Hook**



Basin Energy provides updates on exploration activities at the **Geikie Uranium Project**. Highlights include

- Exploration team and drilling crews have arrived on site to commence maiden drilling program at the **Geikie Uranium Project**
- Drilling to target shallow prospects, deemed favorable for high grade uranium
- First drilling to occur within the **Geikie Project** area for over 50 years
- Initial 2,000 metres drilling planned for 8 drill holes
- Global Uranium sentiment continues to grow with spot prices reaching a 52 week high
- Basin remains fully funded for a significant 2023 exploration program with \$7.3m at 31 March 2023



CanAlaska Promotes Cory Belyk to President. CanAlaska announced it has staked the **Voyageur Project** totaling 5,634 ha located in the SE Athabasca Basin 30 km from the Key Lake Mine, along HWY 914. CanAlaska announces mobilization of field team, drill crew and equipment to its 60%-owned **Geikie** project in the Athabasca Basin. CanAlaska announces expansion of the **Enterprise** project, adding

- The initial drill program for **Geikie** is planned for 2,000 metres, consisting of eight drill holes with proposed depths around 250 metres each.
- The **Enterprise** project is located in the southeastern Athabasca Basin, approximately 20 kilometres from the **Key Lake Mine and Mill** Complex along Highway 914. The expansion adds 2,284 hectares, for a new total of 14,344 hectares.



Cosa Resources announces acquisition of **Orbit Uranium Exploration Property** in the Athabasca Basin Region, Saskatchewan

Highlights include

- **Orbit** covers four kilometres of the interpreted strike extension of a reactivated graphitic structural trend
- Drilling 10 kilometres southwest along trend intersected 0.07% U3O8 over 0.2 metres within strongly altered graphitic faulting
- The 6,669-hectare project was acquired by low-cost staking and is 100% owned by Cosa Resources with no encumbrances
- Cosa's uranium exploration portfolio now comprises 147,347 hectares of highly prospective exploration ground in the Athabasca Basin Region of Saskatchewan



Forum Energy Metals and **Traction Uranium** complete airborne geophysical survey on the **Grease River project**, Athabasca Basin.

Highlights include

- The survey was conducted over the entire **Grease River** claims totaling 10,528 hectares along the Grease River Shear Zone.
- Data delivery is expected within six weeks from **Axiom Exploration Group** and will be interpreted for follow-up exploration



ISO Energy LTD announce its summer 2023 exploration plans for its eastern Athabasca Basin uranium properties

- -Diamond drilling totaling 1,100 metres will be conducted at the **Hurricane deposit** to test areas identified with potential for resource expansion. Additionally, the Company will utilize industry leading innovative technology to conduct an Ambient Noise Tomography (ANT) survey on the Hurricane deposit and surrounds. Further drilling may be conducted on areas potentially identified through the ANT survey.
- -Diamond drilling at the Larocque East, Ranger and Hawk projects totalling 4,700 metres.
- -Airborne geophysical surveying at the **East Rim, Trident, Collins Bay Extension** and **Full Moon projects**.



Marvel announces phase II drilling follow-up at the **KLR-Walker Uranium Project**, Athabasca Basin. Highlights include

The Phase II drill program would consist of 4 holes totaling approximately 2,400 m.

- The start date of the program has yet to be determined.
- A total of 1,343 m was completed through 6 diamond drill holes in the spring of 2023 which intersected 841 ppm U3O8 over 1.07 m at the DD Zone and 553 ppm U3O8 over 1.89 m at the **Highway Zone**.



Okapi announces strong geophysical results define multiple high-priority drilling targets at **Newnham Lake** and **Perch Uranium Projects**

Highlights include

- Significant potential for uranium mineralisation at both **Newnham Lake** and **Perch Uranium Projects** located in the Athabasca Basin
- Strong geophysical results from an extensive airborne survey have defined multiple largescale, high-priority drill targets
- The discovery of previously unrecognised geological structures has enhanced Okapi's existing drill targets, increasing the likelihood of success in the upcoming drill programs
- Drilling to test these high-priority targets is expected to start in Q3 2023



Power Metal Resources announces key developments to its uranium business, which covers a combined 1,005km2 across 17 properties in and around the Athabasca Basin Highlights include

- 2023 exploration campaign planning complete (as outlined below), representing the largest ever uranium focussed exploration programme carried out by Power Metal across its Uranium Portfolio, which includes work on at least 10 of the 17 properties.
- Acquisition of the **Perch River Uranium project** ("Perch River"), which covers an area of 9.41km2 and is entirely within the prolific Athabasca Basin.
- Planned listing of **Uranium Energy Exploration** ("UEE") to be expedited.



Purepoint Uranium Group has published a comprehensive report (<u>Investing in Canada's Uranium Exploration: A Comprehensive Report of our Athabasca Basin Projects</u>) detailing its Athabasca projects

Highlights include

- Summaries for Advanced Exploration projects: **Hook Lake, Red Willow, Turnor Lake, Smart Lake** and **Henday Lake** Projects
- Summaries for Drill Ready and Early Stage Projects: **Carson, Russel South, Tabbernor,** and **Tower** Projects
- Summary for VMS Project: Denare West Project



Standard Uranium announces the refinement of their existing exploration-only business model to a more expansive project generator model. Standard uranium also announces the acquisition by staking of the **Rocas Project** in the Athabasca Basin.

Highlights include

- Standard Uranium shifting to broader scope exploration and project generation business model.
- Rocas Project located 75 km SW of Key Lake Mine/Mill
- Newly staked **Rocas Project** contains strong NE-SW magnetic low trend coincident with historical anomalous uranium outcrop samples up to 0.50 wt. % U3O8.
- Anomalous lakebed geochemical anomalies that statistically rank as greater than 95th percentile U, Co, V, and Zn along the conductor corridor, in addition to high U/Th ratios.
- Planning for a prospecting, sampling, and mapping program in H2 2023 currently underway.



Traction released assay results from its **Key Lake South (KLS) Property** <u>Highlights include</u>

- all holes contained trace amounts of uranium averaging 4.33 ppm over 419 samples
- results indicate that the majority of basement-hosted elevated gamma cps originated from anomalous thorium
- most holes returned anomalous values of REE
- includes 52.8 m of 113.99 ppm Th





Eagle Plains completes acquisition of **George Lake Critical Metals** deposit. Highlights include

- 10,050m of drilling completed in 90 holes, with the best drill holes returning 57.9m grading 3.42% Zn (including 9.1m grading 7.1% Zn) and 47.8m grading 4.5% Zn and 0.61% Pb (including 8.0m grading 7.0% Zn and 1.4 % Pb);
- Historical resource of 2.63MT grading 3.67% Zn and 0.53% Pb reported in 2003 (SMDI 0663)*;
- Deposit dimensions are approximately 35m thick x 150m in width x 800m in length, open to depth and along strike;
- Potential for discovery of extensions of existing mineralization and other discrete mineralization elsewhere on the property.



Fathom announces completion of the **Watts Lake** acquisition at the company's **Gocharger Lake** nickel project.

- Fathom now holds 100% of **Watts Lake**, consisting of twenty-four (24) mineral claims totalling 13,708 hectares.
- Watts Lake, together with the lands covered by the original Gochager Lake Option
- Agreement and subsequent staking (ten [10] mineral claims in all, totalling 5,851 hectares) now encompasses a contiguous land package of 19,559 hectares, collectively referred to as the "Gochager Lake Property".



Fathom announces initial BHEM surveys identify new and developing drill targets at Fathom's **Gocharger Lake Project.**

Highlights include

- Off-hole responses building at the end of drillholes GL-89-03, GL18001 and GL23004.
- Strong off-hole conductors in GL18001 occur directly below and above known mineralization (1.96% Ni / 2.7m; 126.7 129.4m) occurring in the drillhole.
- High conductance off-hole response at ~ 160m and ~190m in GL18001.
- Off-hole conductors in GL18001 occur in areas not previously tested by drilling.



Murchison announced it has appointed Dr Stephen Piercey as Technical Advisor and provided an update on the **Brabant McKenzie (BMK)** Zn-Cu-Ag-Pb-Au Project.

Highlights include

- work completed by Dr Piercey and the technical team on the **BMK Deposit** identified the area as being prospective to host a copper-rich stockwork zone
- a 37 km BMK trend which has numerous showings of VMS mineralization was identified
- accordingly, Murchison has staked an additional 75 sq km encompassing the entire BMK trend.



Searchlight announced that it has re-staked the **Wapawekka core claims** <u>Highlights include</u>

- identified 24 drill-ready targets on the **Wapawekka claims**, and prioritized areas for future exploration
- claims cover 89.1 square kilometers and are located approximately 70 kilometres southeast of La Ronge, Saskatchewan





APOGEE MINERALS

Apogee announces that it has acquired a strategic mineral disposition within its' **Pine Channel Gold Property** tenure that covers the historic **Algold Bay** mineralization.

Highlights include

- The MEL-CEC showing is a vertically dipping shear zone exposed for approximately 300m strike length
- Historical chip sampling has returned values ranging from trace to 100.1 g/t (3.24 oz/t) Au over 0.8m, 26.4g/t Au over 1.9 m, 16.5 g/t Au over 1.31 m, and 11.2 g/t over 1.3 m
- Drill intercepts at the MEL-CEC returned values ranging from trace to a high of 63.5 g/t (2.04 oz/t) Au over 0.6 m



Appia is making significant progress in its helicopter-supported prospecting, mapping, and sampling programs with efforts focused on detailed regional ground exploration in the structural corridor south-southeast (SSE) of its **Magnet Ridge Zone** at **Alces Lake**, Saskatchewan and has announced the discovery of its **'Jesse Zone'**

- The overall area is consistently producing 1,500-3,000 cps from scintillometer readings with numerous hotspots of 5,000-7,000 cps;
- Multiple thick biotite-rich pegmatites occur with biotite schists (i.e. glimmerites, the Pebbly Bio-Schist unit) within a 400 m radius area containing scattered readings of 2,000 cps;
- The team believes that the numerous surface showings are connected under overburden
- Detailed mapping and sampling continues at the **Jesse Zone** to confirm the full extent of this new zone

<u>URANIUM</u>

92 Energy Ltd. announces highly promising results from the recent EM survey conducted at its Clover Uranium Project in Canada's Athabasca Basin.

Highlights include

- Three electromagnetic (EM) conductors identified by the recent ground geophysical survey at the **Clover Project**
- The EM targets are interpreted to represent graphitic structural zones and are therefore highpriority targets for drill testing
- The survey targeted a major interpreted structural intersection between a regional scale northwest trending magnetic low that encompasses the **McArthur River** uranium mine and the northeast trending **Cigar Lake-Close Lake** uranium trend
- Planning is now underway to drill-test the EM conductors
- **Clover** sits 65 km to the northwest of **92 Energy's Gemini** uranium discovery, where drilling recently returned high-grade uranium assays of up to 9.7% U3O8

Baselode Energy Corp announced diamond drilling has commenced on the **ACKIO** high-grade uranium zone for the **Hook** project

Highlights include

- 10,000 metres of diamond drilling planned for **Hook** summer 2023; anticipated to be complete by October and company is fully-funded to complete the program
- 7,500 metres allocated to delineation and expansion diamond drilling on ACKIO
- 2,500 metres partitioned in three to five areas for reconnaissance exploration to discover the next uranium zone on **Hook**

Basin Energy Ltd. provides updates on exploration activities at the **Geikie Uranium Project.** Highlights include

- Exploration team and drilling crews have arrived on site to commence maiden drilling program at the Geikie Uranium Project
- Drilling to target shallow prospects, deemed favourable for high grade uranium
- First drilling to occur within the Geikie Project area for over 50 years
- Initial 2,000 metres drilling planned for 8 drill holes
- Global Uranium sentiment continues to grow with spot prices reaching a 52 week high
- Basin remains fully funded for a significant 2023 exploration program with \$7.3m at 31 March 2023

CanAlaska Ltd promotes Cory Belyk to President. CanAlaska announced it has staked the **Voyageur Project** totaling 5,634 ha located in the SE Athabasca Basin 30 km from the Key Lake Mine, along HWY 914.CanAlaska announces mobilization of field team, drill crew and equipment to its 60%-owned **Geikie Project** in the Athabasca Basin. CanAlaska announces expansion of the **Enterprise Project**

Highlights include

- The initial drill program for **Geikie** is planned for 2,000 metres, consisting of eight drill holes with proposed depths around 250 metres each.
- The **Enterprise project** is located in the southeastern Athabasca Basin, approximately 20 kilometres from the **Key Lake Mine and Mill** Complex along Highway 914. The expansion adds 2,284 hectares, for a new total of 14,344 hectares.

Cosa Resources Corp announces acquisition of **Orbit Uranium Exploration Property** in the Athabasca Basin Region, Saskatchewan

Highlights include

- **Orbit** covers four kilometres of the interpreted strike extension of a reactivated graphitic structural trend
- Drilling 10 kilometres southwest along trend intersected 0.07% U3O8 over 0.2 metres within strongly altered graphitic faulting
- The 6,669-hectare project was acquired by low-cost staking and is 100% owned by Cosa Resources with no encumbrances
- Cosa's uranium exploration portfolio now comprises 147,347 hectares of highly prospective exploration ground in the Athabasca Basin Region of Saskatchewan

F3 Uranium Corp announced that mobilization is underway for the PLN Summer Drilling Program. Highlights include

-a 30-hole drill program will commence to expand on the winter drill results at the JR Zone.

Fission Uranium Corp has commenced a 12-hole geotechnical drilling program at **PLS**. Highlights include

- -two stage, 12-hole drill program gathering engineering data for mine infrastructure and facilities -drilling data will be used to increase technical understanding of hydrogeological and geotechnical conditions
- development on schedule through the permitting phase towards a construction decision.

Forum Energy Metals Corp and **Traction Uranium Corp** complete airborne geophysical survey on the **Grease River project**, Athabasca Basin.

- The survey was conducted over the entire **Grease River** claims totaling 10,528 hectares along the **Grease River Shear Zone**.
- Data delivery is expected within six weeks from **Axiom Exploration Group** and will be interpreted for follow-up exploration.

ISO Energy Ltd announced its summer 2023 exploration plans for its eastern Athabasca Basin uranium properties

Highlights include

- -Diamond drilling totaling 1,100 metres will be conducted at the **Hurricane deposit** to test areas identified with potential for resource expansion. Additionally, the Company will utilize industry leading innovative technology to conduct an Ambient Noise Tomography (ANT) survey on the **Hurricane deposit** and surrounds. Further drilling may be conducted on areas potentially identified through the ANT survey.
- -Diamond drilling at the Larocque East, Ranger and Hawk projects totalling 4,700 metres.
- -Airborne geophysical surveying at the **East Rim, Trident, Collins Bay Extension** and **Full Moon** projects.

Kiplin Metals Inc. has observed a significant increase in activity surrounding **its Cluff Lake Road (CLR)** uranium project

Highlights include

- _noted the proximity of the CLR property to **F3 Uranium Corp**.'s (formerly Fission 3.0) **Patterson Lake North (PLN)** project.
- F3 discovered the **JR** high-grade uranium zone, and subsequent reports (refer to F3 press release dated Feb. 6, 2023) detailed intersections in drill hole PLN22-038, averaging 4.20 percent triuranium octoxide over 11.0 meters, including a high-grade interval of 9.8 percent U308 over 4.5 meters
- -This discovery signifies the presence of a basement-hosted uranium deposit in the Athabasca region, similar to **Fission Uranium Corp.'s Triple R** uranium deposit

Marvel Discovery Corp announces phase II drilling follow-up at the **KLR-Walker Uranium Project**, Athabasca Basin.

Highlights include

- The Phase II drill program would consist of 4 holes totaling approximately 2,400 m.
- The start date of the program has yet to be determined.
- A total of 1,343 m was completed through 6 diamond drill holes in the spring of 2023 which intersected 841 ppm U3O8 over 1.07 m at the **DD Zone** and 553 ppm U3O8 over 1.89 m at the **Highway Zone**.

NexGen Energy Ltd announced commencement of the summer exploration drill program on its 100% owned **SW2** and **SW1** properties in the southwest Athabasca Basin Highlights include

- A total of 17,000 metres is planned for the summer with up to three (3) drill rigs in operation, bringing the 2023 exploration total planned metres to 22,500.
- **SW2**: Geophysical surveys have revealed prominent, stacked anomalies along the structurally complex **R7** (previously referred to as **R Seven**) and **Morrow** corridors. Drill testing with aggressive, first-pass steps is planned for these two prospective corridors along with follow-up drilling of **Arrow-proximal** corridors where high prospectivity is present
- SW1: 2023 summer drilling is planned along the under explored Gartner and Gambit corridors

Okapi Resources Ltd announces strong geophysical results define multiple high-priority drilling targets at **Newnham Lake** and **Perch Uranium Projects**

Highlights include

- Significant potential for uranium mineralization at both **Newnham Lake** and **Perch Uranium Projects** located in the Athabasca Basin
- Strong geophysical results from an extensive airborne survey have defined multiple largescale, high-priority drill targets
- The discovery of previously unrecognized geological structures has enhanced Okapi's existing drill targets, increasing the likelihood of success in the upcoming drill programs
- Drilling to test these high-priority targets is expected to start in Q3 2023

Power Metal Resources PLC announces key developments to its uranium business, which covers a combined 1,005km² across 17 properties in and around the Athabasca Basin Highlights include

- 2023 exploration campaign planning complete (as outlined below), representing the largest ever uranium focussed exploration programme carried out by Power Metal across its Uranium Portfolio, which includes work on at least 10 of the 17 properties.
- Acquisition of the **Perch River Uranium** project ("Perch River"), which covers an area of 9.41km² and is entirely within the Athabasca Basin.
- Planned listing of **Uranium Energy Exploration** ("UEE") to be expedited.

Purepoint Uranium Group Inc has published a comprehensive report (<u>Investing in Canada's Uranium Exploration: A Comprehensive Report of our Athabasca Basin Projects</u>) detailing its Athabasca projects

Highlights include

- Summaries for Advanced Exploration projects: **Hook Lake, Red Willow, Turnor Lake, Smart Lake** and **Henday Lake** Projects
- Summaries for Drill Ready and Early Stage Projects: **Carson, Russel South, Tabbernor,** and **Tower** Projects
- Summary for VMS Project: **Denare West** Project

Stallion Discoveries Corp announces that Mr. Darren Slugoski has joined the Company as Vice President of Exploration, Canada and will be based in Saskatoon, Saskatchewan. Stallion Discoveries also announces **Geotech Ltd.** (Geotech) has completed processing the data from the VTEMTM Plus electromagnetic (EM) and magnetic survey that covered all of Stallion's 100% owned 78,831 hectares in the Athabasca Basin

- Stallion has engaged Condor North Consulting ULC ("Condor") to interpret the survey data
- interpretation includes a full range of services for processing, modeling, and analysis of geophysical data
- Stallion holds the largest contiguous land package in the western Athabasca Basin, when including its 100% owned and optioned joint-venture land with **Atha Energy**
- Stallion continuing to execute on its exploration plans with a view to identifying target zones and high potential drill targets later this year

Standard Uranium Ltd announces the refinement of their existing exploration-only business model to a more expansive project generator model. Standard uranium also announces the acquisition by staking of the **Rocas Project** in the Athabasca Basin.

Highlights include

- Standard Uranium shifting to broader scope exploration and project generation business model.
- Rocas Project located 75 km SW of Key Lake Mine/Mill
- Newly staked **Rocas Project** contains strong NE-SW magnetic low trend coincident with historical anomalous uranium outcrop samples up to 0.50 wt. % U308.

Traction Uranium Corp released assay results from its **Key Lake South (KLS) Property** Highlights include

- -all holes contained trace amounts of uranium averaging 4.33 ppm over 419 samples
- -results indicate that the majority of basement-hosted elevated gamma cps originated from anomalous thorium
- -most holes returned anomalous values of REE
- -includes 52.8 m of 113.99 ppm Th

BASE METALS

Eagle Plains Ltd completes acquisition of George Lake Critical Metals deposit.

Highlights include

- -10,050m of drilling completed in 90 holes, with the best drill holes returning 57.9m grading 3.42% Zn (including 9.1m grading 7.1% Zn) and 47.8m grading 4.5% Zn and 0.61% Pb (including 8.0m grading 7.0% Zn and 1.4 % Pb);
- -Historical resource of 2.63MT grading 3.67% Zn and 0.53% Pb reported in 2003 (SMDI 0663)*;
- -Deposit dimensions are approximately 35m thick x 150m in width x 800m in length, open to depth and along strike
- -Potential for discovery of extensions of existing mineralization and other discrete mineralization elsewhere on the property.

Fathom Nickel Inc announces completion of the **Watts Lake** acquisition at the company's **Go-charger Lake nickel project.**

- Fathom now holds 100% of **Watts Lake**, consisting of twenty-four (24) mineral claims totalling 13,708 hectares.
- Watts Lake, together with the lands covered by the original Gochager Lake Option
- Agreement and subsequent staking (ten [10] mineral claims in all, totalling 5,851 hectares) now encompasses a contiguous land package of 19,559 hectares, collectively referred to as the "Gochager Lake Property".

Fathom Nickel Inc announces initial BHEM surveys identify new and developing drill targets at its **Gocharger Lake Project**.

Highlights include

- Off-hole responses building at the end of drillholes GL-89-03, GL18001 and GL23004.
- Strong off-hole conductors in GL18001 occur directly below and above known mineralization (1.96% Ni / 2.7m; 126.7 129.4m) occurring in the drillhole.
- High conductance off-hole response at ~ 160m and ~190m in GL18001.
- Off-hole conductors in GL18001 occur in areas not previously tested by drilling.

Murchison Minerals Ltd announced it has appointed Dr Stephen Piercey as Technical Advisor and provided an update on the **Brabant McKenzie (BMK) Zn-Cu-Ag-Pb-Au Project.**Highlights include

- -work completed by Dr Piercey and the technical team on the **BMK Deposit** identified the area as being prospective to host a copper-rich stockwork zone
- -a 37 km BMK trend which has numerous showings of VMS mineralization was identified
- -accordingly, Murchison has staked an additional 75 sq km encompassing the entire BMK trend.

Searchlight Resources Inc announced that it has re-staked the **Wapawekka** core claims Highlights include

- identified 24 drill-ready targets on the **Wapawekka** claims, and prioritized areas for future exploration
- Claims cover 89.1 square kilometers and are located approximately 70 kilometres southeast of La Ronge, Saskatchewan

RARE EARTH ELEMENTS (REEs)

TREO=Total Rare Earth

Oxides=Ce2O3+Dy2O3+Er2O3+Eu2O3+Gd2O3+Ho2O3+La2O3+Nd2O3+Pr6O11+Sm2O3+Tb4O7+Yb2O3

Appia Rare Earths and Uranium Corp is making significant progress in its helicopter-supported prospecting, mapping, and sampling programs with efforts focused on detailed regional ground exploration in the structural corridor south-southeast (SSE) of its **Magnet Ridge Zone** at **Alces Lake**, Saskatchewan and has announced the discovery of its **'Jesse Zone'** Highlights include:

- The overall area is consistently producing 1,500-3,000 cps from scintillometer readings with numerous hotspots of 5,000-7,000 cps;
- Multiple thick biotite-rich pegmatites occur with biotite schists (i.e. glimmerites, the Pebbly Bio-Schist unit) within a 400 m radius area containing scattered readings of 2,000 cps;
- The team believes that the numerous surface showings are connected under overburden
- Detailed mapping and sampling continues at the **Jesse Zone** to confirm the full extent of this new zone

Traction Uranium Corp released assay results from its **Key Lake South (KLS) Property** <u>Highlights include</u>

- -all holes contained trace amounts of uranium averaging 4.33 ppm over 419 samples
- -results indicate that the majority of basement-hosted elevated gamma cps originated from anomalous thorium
- -most holes returned anomalous values of REE
- -includes 52.8 m of 113.99 ppm Th

SILVER

Murchison Minerals Ltd announced it has appointed Dr Stephen Piercey as Technical Advisor and provided an update on the **Brabant McKenzie (BMK) Zn-Cu-Ag-Pb-Au Project.**<u>Highlights include</u>

- -work completed by Dr Piercey and the technical team on the **BMK Deposit** identified the area as being prospective to host a copper-rich stockwork zone
- -a 37 km BMK trend which has numerous showings of VMS mineralization was identified
- -accordingly, Murchison has staked an additional 75 sq km encompassing the entire BMK trend.

GOLD

Apogee Minerals Ltd announces that it has acquired a strategic mineral disposition within its' **Pine Channel Gold Property** tenure that covers the historic **Algold Bay** mineralization.

Highlights include

- The MEL-CEC showing is a vertically dipping shear zone exposed for approximately 300m strike length
- Historical chip sampling has returned values ranging from trace to 100.1 g/t (3.24 oz/t) Au over 0.8m, 26.4g/t Au over 1.9 m, 16.5 g/t Au over 1.31 m, and 11.2 g/t over 1.3 m
- Drill intercepts at the MEL-CEC returned values ranging from trace to a high of 63.5 g/t (2.04 oz/t) Au over 0.6 m

Murchison Minerals Ltd announced it has appointed Dr Stephen Piercey as Technical Advisor and provided an update on the **Brabant McKenzie (BMK) Zn-Cu-Ag-Pb-Au Project.**Highlights include

- -work completed by Dr Piercey and the technical team on the **BMK Deposit** identified the area as being prospective to host a copper-rich stockwork zone
- -a 37 km **BMK trend** which has numerous showings of VMS mineralization was identified -accordingly, Murchison has staked an additional 75 sq km encompassing the entire **BMK trend**.

Searchlight Resources Inc announced that it has re-staked the **Wapawekka** core claims Highlights include

- identified 24 drill-ready targets on the **Wapawekka** claims, and prioritized areas for future exploration
- Claims cover 89.1 square kilometers and are located approximately 70 kilometres southeast of La Ronge, Saskatchewan

Advertisements

To advertise with us, email office@kcda.ca

NORTHERN TALENT POOL

Send Job Postings to office@kcda.ca and we will refer qualified candidates

Email: <u>office@kcda.ca</u> Phone: (306) 425-4778

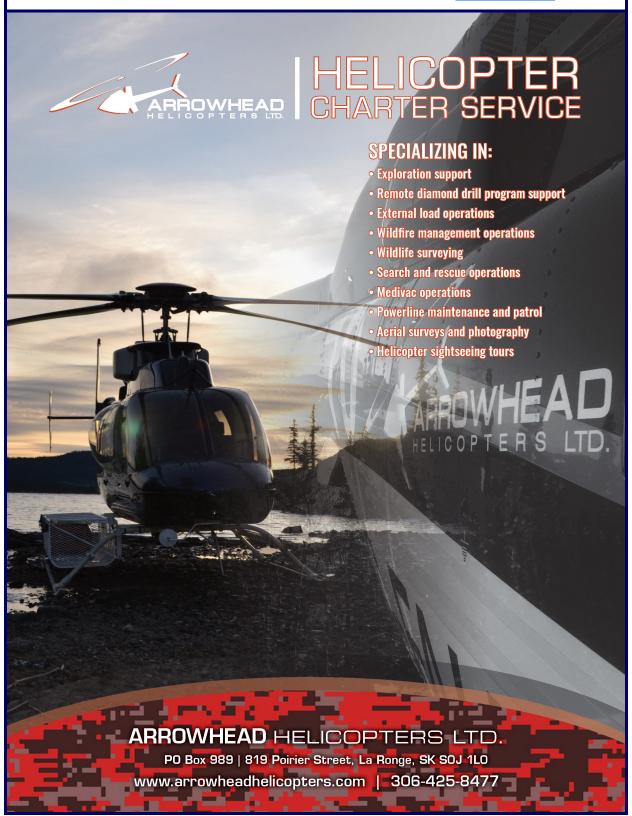


Connect with northern communities
Find qualified northern candidates
Specialized recruitment support such as
booking interviews and initial screening



Advertisements

To advertise with us, email office@kcda.ca



Advertisements

COPPER & GOLD PROPERTIES FOR SELL OR OPTION

rippleexploration@gmail.com

- Vass Lake is a copper-zinc-gold VMS terrane consisting of 7 claims totaling 2,435 ha
 - only 20 km Northwest of Flin Flon & 7 km North of Highway 106
 - Kisseynew domain gneisses high grade equivalents of the Flin Flon belt?
 - semi-massive pyrite, pyrrhotite, chalcopyrite, sphalerite traced for 775 meters
 - ♦ drilling in 1967 returned 7.3m of 0.54% Cu including 0.95% Cu over 1.5m
 - ◆ BHP-Utah Mines Ltd. drilling intersected a 17.9m wide alteration zone with 0.40% Cu & 0.12% Zn over 10.14m including 0.83% Cu & 0.49 g/t Au over 1.02m
 - recent DPEM survey rated a 'very strong' conductor deeper than any previous drilling
- Hamell Lake is a copper-zinc-gold VMS terrane consisting of 5 claims totaling 1,975 ha
 - only 6 km Northwest of Flin Flon, highway and powerline run through the property
- Glifford Bay is a copper-zinc-gold VMS terrane consisting of 7 claims totaling 3,966 ha
 - ♦ Schotts Lake Cu-Zn deposit 24 Mlbs Cu & 53 Mlbs Zn 3 km to the East
 - ♦ drilled by BHP-Utah Mines, 0.44% Cu over 2.5m & 1.07% Cu over 0.61m
- Welk Lake is an 'orogenic' style gold terrane consisting of 14 claims totaling 3,909 ha
 - 44 km North of La Ronge, highway and powerline run through the property
 - located in the Southern La Ronge domain host to several former producers
 - ♦ sandwiched between the Bartlett Lake Fault & the McLennan Lake Thrust Fault
 - North Lake Deposit 484,000 ounces gold indicated and inferred 3.8 km to East
 - ◆ Contact Lake former producer 190,000 ounces gold is 3 km to Southeast
 - four prospective gold zones actively being explored within the property

Diamond Drill For Sale

Longyear 38 Diamond Drill for Sale, good condition ready to go to work.

Located in La Ronge, Saskatchewan

- Mounted in drill shack, additional fly in frame included with tooling and spares.
 - diesel engine.
- Approximately 600 ft. NQ rods
 and 100 ft of casing
- 420 Bean pump/20 ft mast with basket

4 cylinder turbo John Deere

- Lots of spare parts including drill bits/mud/consumables
- Can send email with pictures of drill and extras upon request

\$35,000

(250) 318-7306

ckcash2@yahoo.ca

Chris Knudsen



Multiple

Exploration Properties

Drill Programs

Streams of Revenue

Decades of Operation

Possibilities of Discovery

One

Investment Opportunity

Company Directory

To include your company in our directory, email office@kcda.ca



CanAlaska Uranium Ltd.
Suite 1020, 625 Howe St

Suite 1020, 625 Howe St. Vancouver BC, V6C 2T6 (604) 688-3211

www.canalaska.com



EPL:TSX-V

Eagle Plains Resources Ltd.

Suite 200, 44 - 12th Ave S Cranbrook, BC V1C 2R7 1-866-486-8673

eagleplains.com

HDBAY

Hudbay Minerals Inc

PO Box 1500 Flin Flon, MB R8A 1N9 hudbayminerals.com



IsoEnergy Ltd.

Suite 200, 475-2nd Ave S Saskatoon, SK, S7K 1P4 (306) 653-6255

www.isoenergy.ca



Terralogic Exploration Inc.

Suite 200, 44 - 12th Ave S Cranbrook, BC V1C 2R7 1-778-520-2000

terralogicexploration.com

GEMOIL

Gem Oil Inc.

Box 1111 Regina, SK, S4P 3B2 (306) 543-5678

gemoil.ca



Baselode Energy Corp.

Suite 1805 - 55 University Avenue Toronto, ON M5J 2H7 (416) 644-1567

baselode.com

ABASCA RESOURCES INC.

TSXV:ABA

Abasca Resources Inc.

Tel: 1 (306) 933-4261 Fax: 1 (888) 334-6418 Email: <u>info@abasca</u>.ca #208 311 4th Ave N Saskatoon, SK S7K 2L8 Canada www.abasca.ca



408-1199 West Pender St. Vancouver BC, V6E 2R1 info@searchlightresources.com searchlightresources.com

Uranium Energy Corp

Uranium Energy Corp.

200-3530 Millar Ave Saskatoon, SK, S7P 0B6 306-979-3849

www.uraniumenergy.com





Orano Canada Inc

#100 - 833 45th St W Saskatoon, SK S7L 5X2 (306) 343-4500

oranocanada.com



SSR Mining Inc.

Suite 800—1055 Dunsmuir St Vancouver, BC V7X 1G4 1-604-689-3846

ssrmining.com

29

Exploration Service Directory

To include your company in our directory, email office@kcda.ca



Arrowhead Helicopters Ltd.

819 Poirier St. La Ronge, SK SOJ 1LO (306) 425-8477

www.arrowheadhelicopters.com



ARLIE FROLICK President

P: 780.812.5389 arlie@accurateind.ca

Box 370 Pierceland, SK SOM 2KO



Helicopter Transport Services Canada Inc.

700 Poirier St. - La Ronge, SK SOJ 1L0 (306) 425-8661 lavoym@htsc.ca



POINTS NORTH GROUP

POINTSNORTHGROUP.CA • INFO@PNFF.CA • (306)633-2137
BULK FUEL • TRUCKING • LUMBER YARD • ACCOMMODATIONS
REPAIR SERVICES • EQUIPMENT RENTALS



Porcupine Opportunities Program

101 Church St.
Porcupine Plain, SK S0E 1H0
(306) 278-3017

popine@sasktel.net

Hy-Tech Drilling Ltd.

Saskatoon, SK Office - 306.683.0303 Smithers, BC Office - 250.847.9301 HY-TECHDRILLING.COM



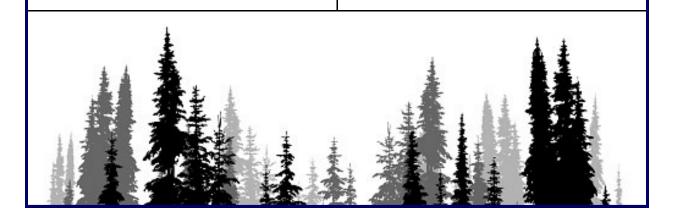


Contact us at (306) 425-4778 or by email at office@kcda.ca to reserve this space now.

(Pricing on Page 2)

Contact us at (306) 425-4778 or by email at office@kcda.ca to reserve this space now.

(Pricing on Page 2)



Exploration Service Directory

To include your company in our directory, email office@kcda.ca

AJG EXPLORATION LTD.

AJG Exploration Ltd.

La Ronge, SK SOJ 1L0 (306) 425-2217

agracie@accesscomm.ca

J.P.

ENTERPRISES

J.P. Enterprises

1311 Poirier St. La Ronge, SK SOJ 1LO (306) 425-2520



Government of Saskatchewan

saskatchewan.ca

- Cooks/Camp Attendants
- Expediting
- Hot Shot Services



Desjarlais Enterprises Inc.

PO Box 508
Ile-a-la-Crosse, SK SOM 1C0
(639) 832-7667
w.desjarlais@sasktel.net



Allbutt Mining Supplies

111 Omands Creek Blvd Winnipeg, MB R2R 1W3 (204) 885-2513 Toll Free (888) 785-2513

sales@allbuttminingsupplies.com



Northlands College

Parcel M - Hwy #2 N Air Ronge, SK SOJ 3G0 (306) 425-4483 trainnorth.ca

Advertise in NORTHERN MINERAL HIGHLIGHTS

Effective Exposure to a Select Audience

"Northern Mineral Highlights did a great job for Alligator in helping us attract a partner who is now drilling on the Alligator claims"

> -Herb Mathies, P. Eng, Vice President Alligator Resources Ltd.

Contact us at (306) 425-4778 or by email at office@kcda.ca (Pricing on Page 2)

