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ESO Uranium Corp.

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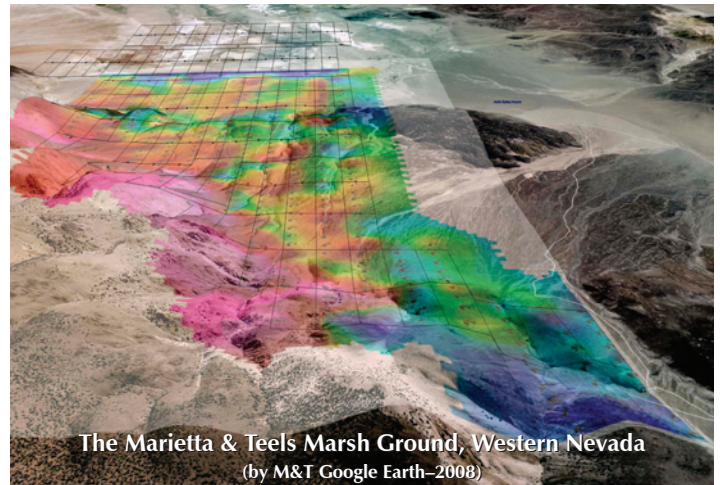
*Gold, Uranium, Lithium, and Borax
 Exploration in North America*

In the recent uranium boom in 2006 **ESO Uranium Corp.** was one of the most active juniors in assembling promising land packages within the productive Athabasca Basin of Saskatchewan. With close to a million acres of ground, the company was one of the largest landholders in the world's most prolific uranium camp. Following their initial exploration programs, ESO has distilled their holdings to those properties they feel hold the most promising targets. Recently ESO has expanded their exploration efforts to include lithium and borax along with uranium and precious metals on their Nevada properties, and the company has high hopes for its attractive gold properties in BC and Ontario.

MARIETTA & TEELS MARSH PROPERTIES, NEVADA – URANIUM, LITHIUM, BORAX

Early in 2008 ESO announced the acquisition through an option and staking of the 971 ha **Marietta Property**, which covers a uranium-bearing granitic intrusive with shear hosted uranium-copper-silver-molybdenum mineralization. The Marietta property was first mined in the late 1800s for silver-copper ores, then after World War II it was discovered these high grade ores carried uranium values. ESO ran radon, radiometric, and ground geophysical surveys in the summer of 2008—scintillometer readings were off-scale (>9999 cps) in historical adits and workings on the property, and the geophysics showed several anomalies that correspond to radon and radiometric anomalies.

Last fall ESO announced they'd optioned and staked additional claims contiguous to the Marietta property and along and over part of the **Teels Marsh**; ESO's geological team believes they may find an economic 'playa-type' uranium deposit, where minerals leached from the surrounding



The Marietta & Teels Marsh Ground, Western Nevada
 (by M&T Google Earth-2008)

rocks are deposited in the basin. ESO reports that a Conoco geologist in 1973 described 10 to 20 feet of 0.1% uranium at a depth of about 100 feet in the Teels Marsh.

The Teels Marsh was also a historical borax producer, and recent water sampling has confirmed the presence of lithium, up to 850ppm, that was detected in surveys conducted in the 1970s. Recognition of lithium and borax in the playa brines has prompted ESO to add further claims to the project. Chemetal-Foote's nearby Clayton Valley operations, the sole lithium producer in the USA, operates with brine grades of approximately 400 ppm.

MIKWAM PROPERTY ONTARIO – GOLD

The 1000 ha **Mikwam Gold Project**, located northeast of Timmins on the Casa Berardi Deformation Zone, is contiguous

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to Aurizon's property holding the producing Casa Berardi Gold Mine. The Mikwam had an historical (non NI 43-101) resource calculated in 2000 showing 1,504,300 tonnes grading 3.21 g/t, totaling 155,827 oz gold. ESO conducted a drill program in 2006 that returned strong intersections, including 4.10 g/t gold over 19.0 m, 4.99 g/t gold over 13.0 m, and 6.32 g/t gold over 5.6 m.

THE DONNA PROJECT
BRITISH COLUMBIA – GOLD

Benjamin Ainsworth, ESO's noted VP of Exploration, for some time had been intrigued by the placer gold mining history of the Kettle River in southern BC. The gold's source appeared to be in the Monashee Mountain Range, and in 2009 Mr. Ainsworth finally optioned his target holding. Government geochemical surveys show the **Donna Claims** lie within a large cluster of anomalous values in stream sediments for gold and its pathfinder elements. Past exploration work (pre NI 43-101) on the Donna property indicates a strong NW to SE linear zone of gold values that was intersected by four trenches over a distance of 250 m and remains open. Assays from the trench walls include 29.66 g/t over 2.5 metres! The high gold values point to the possibility of a bulk tonnage gold-silver deposit supported by the stockwork mineralization. ESO plans to run an IP survey on the property, followed by a drill program.

ATHABASCA BASIN PROPERTIES
SASKATCHEWAN – URANIUM

The geologist's quarry in the Athabasca Sandstone Basin is 'unconformity uranium deposits' which generally are found at the base of the sediments. These are small, difficult to find deposits, but they are often very rich. On the west side of the Athabasca Basin the underlying Archaean rocks are typically quite deep, making exploration difficult. However there is an exception to this—the Carswell Structure is some thirty km across and is believed to be the result of an asteroid impact that lifted the basement rocks towards the surface, and allowed the discovery of one of the basin's most famous operations, the Cluff Lake Mine. Total production from Cluff Lake was 64.2 million lbs U₃O₈ at an average grade of 0.92% U₃O₈, with significant gold byproduct. ESO's **Cluff Lake Project** lies between the Cluff Lake Mine ground and the Shea Creek project of UEX and Areva, where three deposits have been identified along a trend of geophysical conductors that extend onto ESO's ground. Uranium-mineralized boulders (up to 16.9% U₃O₈, with 2.9 g/tonne gold) found resting near the southern property border are also intriguing as glaciation during the last ice age would have pushed the boulders from a yet unidentified source well inside the holding.

ESO's contiguous 24,429 ha **Hook Project** and the 12,493 ha **Patterson Project** are closer to the southern margin of the Athabasca Basin where the overlying sandstone is much thinner. Seventeen electromagnetic conductors with a total strike length of eighty kilometres have been identified on Hook Project property, and only three of these conductors have been drill tested. The Patterson Project is a 50/50 joint venture with Fission Energy. A 3,200 line-km high resolution

airborne magnetic and radiometric survey was completed across the property in October 2009 to help define the lithology and geological structures, and identify zones of anomalous radioactivity.

The 20,030 ha **Cree Lake holding** is strategically located along a trend that hosts numerous high grade uranium intersections, including La Rocque Lake where 29.9% U₃O₈ over 7 metres has been drilled. An airborne geophysical survey in 2006 identified significant conductors within magnetic low belts on the property. ESO commissioned a follow-up airborne geophysical survey in 2009 to define deeper resistivity anomalies that could indicate high grade unconformity uranium deposits. The data showed a strong electromagnetic conductor coincident with a magnetic low on the project's northwest claim.

Further to the northeast is ESO's 3,507 ha **Hatchet Lake holding** that has geological similarities to the nearby Rabbit Lake Mine and Collins Bay Mine deposits.

DYNAMIC CONCLUSION

ESO holds several prospective properties, but their real strength lies in their management and exploration team. Chairman Tony Harvey is the past Chair of Lake Shore Gold, and former senior manager with Wright Engineers Ltd.-Fluor Daniels responsible for the design, construction and start-up of 14 mines world-wide. VP Exploration Benjamin Ainsworth held numerous senior positions with Placer since 1965, including a period as president of Placer Chile. He is on the board of Hathor Exploration that is advancing the Roughrider uranium deposit.

Today's fleet of nuclear power reactors uses approximately 180 million lbs U₃O₈ per year, but current global mining production is only around 110 million lbs per year. The supply-demand dynamics, along with plans for additional reactors, points to higher uranium prices in the future. With gold at over \$1000/ounce and lithium growing in importance with developments in battery technology and electric vehicles, ESO is well positioned to see its low market cap grow with exploration success.

Shares Outstanding: ~ 58.3 million

6 Month High: \$0.08 / Low \$0.04

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