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May 6, 2005

Magnetometer Case Histories

The following case histories were obtained using a literature review from various sources.

Diamond Exploration - Coincident Magnetic and EM Anomalies

Shear Minerals, Stornoway Diamond and BHP Billiton Diamonds has released results from the spring exploration drilling program on the Churchill diamond project in Nunavut. The first hole drilled has intersected new kimberlite. Drill hole number 05KD428-02 was designed to test KD5071, a circular magnetic high with associated EM geophysical anomaly. The vertical drill hole tested the centre of the anomaly and intersected kimberlite at a depth of 11.5m and the hole remains in kimberlite at a depth of 71m.

Ground geophysical crews are on site and have completed 25 surveys over selected high interest anomalies. Geophysics will include ground magnetics, HLEM and selected nanoTEM. Drilling will continue through to the end of the summer season and will focus on land-based targets within the same areas of interest.

posted by GEM : 9:36 AM

Tuesday, May 03, 2005

Alluvial Diamonds - Magnetics for Mapping of Paleochannels

Cream Minerals Ltd. is pleased to announce that it has received a Technical Report on its Casierra alluvial diamond properties EPL 1/94 (Hima prospecting license area) and EPL 5/94 in Sierra Leone, West Africa. EPL 1/94 covers approximately 10.5 km of the Sewa River channel along with adjoining flats and terraces up to 1.4 km wide.

The Sewa River has a long history of diamond production from alluvial sources with EPL 1/94 containing one of the last portions of the diamondiferous sections of the river which has not seen extensive hand mining by natives (Hall, 1966). Within the lease, the river has a relatively low gradient, but is surrounded both upstream and downstream by sections of the river with much steeper, rapid forming gradients.

He reports, however, that results of the programs to date are sufficient to justify further work and recommends a two-phase program. Phase 1 will be a detailed magnetometer survey over portions of the lease indicated by the 1995 geophysical work as possible paleochannels employing an Owenhauser type horizontal and vertical gradient magnetometer. Cost of the program is estimated at US\$175,000. Phase 2 will be a dredge sampling program based on the results of phase 1 at an estimated cost of



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US\$710,000. Total cost of the Phase 1 and Phase 2 programs for EPL 5/94 is US\$885,000.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20050419005928&newsLang=en

posted by GEM : 10:40 AM

Wednesday, April 13, 2005

Disseminated Gold Exploration - Magnetics for Drill Targeting

Over the past 18 months Nevsun Resources Ltd. has been exploring a prospective area approximately 10 kilometers east of its Bisha massive sulphide deposit. The area is underlain by late Proterozoic aged metasediments and associated intrusive rocks. It is located within Nevsun's Okreb exploration license which is contiguous with its Bisha license. The Bisha camp is providing an efficient and cost effective management and logistical base for the Okreb work.

An extensive sequence of jasperoids (silica replacement of limestone) has been traced for many kilometers of strike length. This evidence along with a suite of elements with similar association to those of many Nevada gold deposits (Au, As, Sb, Hg, Tl, Ba, Mo) has lead Nevsun's geologists to believe that there is a strong potential for the region to host Carlin type disseminated gold deposits.

Geophysical surveys in the form of magnetometer and IP/resistivity are planned to start within the next few weeks. An initial diamond drilling program of 2000-2500 meters is scheduled to be carried out in May in order to test anomalous areas and geophysically defined targets.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20050412005566&newsLang=en

posted by GEM : 8:39 AM

Gold Exploration - Magnetics for Definition of Geologic Structures

Lincoln Gold is pleased to announce that it has executed a drilling contract and geophysical survey contract and is continuing soil sampling on its Nevada properties. A large ground geophysical survey program on the Jenny Hill property has been contracted with a prominent, international geophysical survey company in Reno.

Work should commence in April on this gold property in Mineral County, approximately 16 miles west of the small desert town of Gabbs. Approximately 110 kilometers of continuous-reading GPS magnetometer survey is planned at a 100 meter line spacing utilizing continuous GPS readings as control. Subsequent data will be merged with the Company's existing 63 kilometer survey (same contractor) for a total of 173 kilometers

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of magnetometer data. The purpose of the survey is to further define significant structures related to gold mineralization and to indicate possible extensions of known skarn mineralization.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20050412005625&newsLang=en

posted by GEM : 8:38 AM

Tuesday, April 12, 2005

Gold Exploration - Magnetism for Mapping and Drill Targeting

Cream Minerals Ltd. is pleased to announce that it is now planning the 2005 exploration program on its Goldsmith Property, located near Kaslo in southeastern British Columbia. Results from the previous soil geochemistry and rock sampling results are extremely positive, leading Cream to plan expanded exploration programs for 2005.

Due to the very encouraging gold values obtained in rock and soil samples throughout the length of this property, a two-phase work program is planned for 2005. The initial Phase will focus on continuing to expand the soil sampling grid over the remainder of the property. Also, in order to define drill and trench targets throughout the large anomalous zone, detailed geological mapping, rock chip sampling and an accompanying magnetometer survey will also be conducted over the extent of the grid.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20050407005024&newsLang=en

posted by GEM : 8:37 AM

Platinum Group Exploration - Magnetic Modeling and Characterization

Nevada Star Resource Corp. is pleased to release encouraging results from studies of integrated exploration geology, geophysics, geochemistry and drilling generated since 1995 for the Canwell Nickel-Copper Platinum-Group Element (Ni-Cu-PGE) prospect on Area 4 of the MAN Alaska Project, Delta River Mining district, Alaska. Analysis of the newly integrated database revealed higher nickel values than previously reported, newly recognized Ni-Cu-PGE anomalies between the Lower Canwell and East Canwell showings, and increased potential for large deposits of disseminated sulfide mineralization.

Airborne and ground magnetic and electromagnetic (EM) surveys guided mapping of the lithologies and detection of geophysical anomalies within the Canwell Complex. Inverse three-dimensional modeling reveals the presence of three large magnetic



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bodies, suggesting a composite intrusion. The easternmost of these bodies is the most irregular in shape and hosts the majority of the mineral showings.

posted by GEM : 8:35 AM

Wednesday, February 23, 2005

Copper / Gold Exploration - Expanded Grid Surveying using Magnetics

Ross River Minerals Inc. is pleased to announce that it has resumed operations on its 20,321 hectare El Pulpo property, located 125 kilometres northeast of Mazatlan, Mexico. The initial 2005 program includes additional mapping and sampling of the Cerro Colorado, La Cetolla and Jocquistes copper-gold porphyry prospects and heavy silt sampling of the streams draining the general area of the La Cetolla and Jocquistes prospects and east to southeast of the Cerro Colorado prospect.

The existing grid over the La Langosta and Cerro Colorado prospects will be expanded eastward to tie together the La Langosta and La Cetolla prospects. Soil geochemical sampling, magnetometer and induced polarization surveys will be completed over the expanded grid. Trenching is also planned for anomalous areas. This will be followed by a major drill program within the La Langosta and Cerro Colorado copper-gold porphyry prospects. James R. Reeves P.Geol. will manage the 2005 exploration program.

More information is at <http://press.arrivenet.com/bus/article.php/594165.html>

posted by GEM : 8:28 AM

Friday, February 11, 2005

Gold Exploration - Prospecting Using Ground Magnetics

Temex Resources Corp. today released results from the recent trenching program on its Merico Ethel Property, part of the Latchford Gold Project.

Commenting on the results Brian Groves said, "These results are significant for several reasons. Firstly, they support our view that the full potential of the property to host significant gold mineralization is being realised. Secondly, we now have a number of priority targets to focus on in the next phase of exploration and thirdly this work adds significantly to our total understanding of the controls on mineralization within the Latchford Project. Our exploration focus will continue to drive toward defining the full potential of the more than 50,000 acres comprising the Latchford Project."

The Company is pleased to report the results of a surface exploration program completed on the Merico Ethel Property during the fall field program. The Property, one of 11 properties comprising the Latchford Gold Project, is located 5 kilometres east of Elk Lake, ON. In October 2004, a program consisting of surface stripping and trenching of high grade copper veins in proximity to the Merico Shaft area was completed. In November and December a grid was cut across much of the Property which provided control for a soil geochemical survey, ground magnetometer and induced polarization (IP) geophysical surveys.



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More information is at

<http://www.newswire.ca/en/releases/archive/February2005/10/c2745.html>

posted by GEM : 4:22 PM

Friday, February 04, 2005

Copper / Molybdenum Exploration - Targeting Drillholes Using Magnetics

Sonora Gold Corp has received the results from the final 2 holes from its 2000 meter core drilling Phase 1 program at its San Enrique property in Sonora State, Mexico. Hole # 05-15 returned 27.6 meters grading 0.148% Mo, 0.308% Cu and 6.7gpt Silver. Within this interval 5.3 meters graded 0.454% Mo, 0.92% Cu and 21.3gpt silver.

The results received to date and, to a certain extent, current metal prices, dictate that the focus of exploration at San Enrique switch from gold to molybdenum/copper, either lower grade bulk tonnage targets or higher grade supergene zones. Drilling prior to the discovery at Los Panoches indicated that the rocks at San Enrique were generally molybdenum-enriched. The 8 holes covering more than a square kilometer in the Central area averaged almost 0.02% Mo over their entire lengths. (The crustal distribution for Mo is 1 ppm. 0.02% approaches the grade at which Mo is recovered as a by-product).

Future drilling for these targets at San Enrique will be guided by detailed geophysics including ground magnetometer and Induced Polarization Surveys.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20050202006013&newsLang=en

posted by GEM : 2:08 PM

Thursday, February 03, 2005

Diamond Exploration - Magnetic Characterization of Kimberlites

Vaaldiam Resources Ltd. (TSX-V: VAA) has discovered another kimberlite body on the Company's 176,000 hectare diamond property in Rondônia, Brazil, thereby increasing the total number of kimberlites discovered to date to thirty-three.

Vaaldiam's geologists report that several outcrops of kimberlite were recently exposed with a bulldozer during road construction. The exposures of kimberlite, which coincide with an indicator mineral anomaly covering an area of roughly 250 metres by 100 metres, lie approximately 300 metres to the southeast of the Tumeleiro 3 kimberlite. Inspection of the kimberlite exposures suggests that the new kimberlite, named "Clara 2," forms a series of sills which trend in a west-northwest direction. Vaaldiam's Senior Geologist, José Fernando Tonoli reports that manual processing of a 30-litre sample of weathered kimberlite from Clara 2 produced a mineral concentrate rich in garnets, with a lesser amount of oxide minerals such as ilmenites. A detailed magnetic survey



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over the area of Clara 2 failed to produce a corresponding anomaly, suggesting that the Clara 2 kimberlite may be a non-magnetic kimberlite.

The Clara 2 kimberlite lies in a cluster of five pipes that are situated within a well-defined area covering some 575 hectares. The pipes and sill-like deposits appear to lie along a north-northwest trending structural lineament, which hosts two other diamondiferous pipes known as Cosmos 1 and 2. Geophysical surveys completed by Vaaldiam have identified at least 5 additional targets which exhibit a weak magnetic response within and along this trend. These geophysical targets may represent new undiscovered kimberlite pipes and will be tested during this current exploration campaign.

In highlighting the importance of this new discovery, Dr. Luiz Bizzi, Vaaldiam's Chief Diamond Consultant reports that "this new discovery reinforces the merit of following up a further 34 priority magnetic anomalies selected for work, as they could be new additional kimberlite pipes over and above the 33 pipes discovered to date.

posted by GEM : 3:59 PM

Wednesday, February 02, 2005

Gold Exploration - Ground Magnetometer Surveys

Oromin's Sabodala Property surrounds the 20 square kilometre exploitation concession recently awarded to Mineral Deposit Limited ("MDL"), an Australian public company whose shares are listed on the Australian Stock Exchange.

Following the award of the exploration concession, Oromin completed a QuickBird High Resolution Satellite imagery survey of the Sabodala area. This will be followed by airborne geophysics, ground geophysics (including magnetics and induced polarization), regional and detailed geochemistry surveys, prospecting, geological and structural mapping, manual and mechanical trenching and extensive drilling, beginning with drilling on the Golouma and Kobokoto prospects in the vicinity of previous BRGM trenching and at the extension of the Sabodala South deposit as soon as possible after the commencement of exploration.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20050127005990&newsLang=en

posted by GEM : 10:29 AM



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UXO Detection - Park Searched for Old Bombs, Bullets

A popular park in Bremerton has been partially shut down while the military searches for old bombs and bullets, it was reported.

NAD Park, on the site of Naval Ammunition Depot, was handed over to the city nearly 50 years ago. The Navy never conducted a thorough search for leftover explosives.

A specially trained team is now using metal detectors and magnetometers to see if any explosives remain buried in the wet ground.

posted by GEM : 10:29 AM

Porphyry Copper - Numerous Strong Magnetic Anomalies

Aberdene Mines Limited (OTCBB: ABRM) (the "Company") reports completion of its Phase One exploration program on the New York Canyon Copper project in Nevada.

Aberdene's 2004 exploration program also included completing over 57 miles of Magnetometer survey over the Copper Queen porphyry deposit area. Numerous strong anomalies are coincident to previously established Conoco resource data. There appears to be a good opportunity to continue to show potential for molybdenum, silver and gold credits in the porphyry system.

More information is at <http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=109&STORY=/www/story/02-01-2005/0002941616&EDATE=>

posted by GEM : 10:17 AM

Uranium Exploration - Ground Magnetic Surveys

JNR and International Uranium have approved a winter exploration program on the Moore Lake uranium project located in Athabasca Basin of northern Saskatchewan. The program was initiated in December of 2004 and will include a minimum of 15,000m of diamond drilling. The drilling will focus on following up and expanding the strike length of the high grade intersections obtained on the Maverick Zone, as well as testing prospective targets on several regional grids.

The program also includes some 300 km of line cutting and grid re-establishment, followed up by a combination of ground EM, magnetic and gravity surveys. In addition, the joint venture will carry out a seismic survey over the Maverick structural corridor, to further investigate the structural and geological relationships of the Maverick uranium mineralization. There are two drills currently operating on the regional grids.



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They are testing targets identified by previous drilling and boulder sampling, and derived by the ongoing geophysical program.

posted by GEM : 10:17 AM

Monday, January 24, 2005

Gold Exploration - Magnetometer Surveys Over Limited Outcrop

Aurelian Resources has announced the discovery of a new gold area in close proximity Aurelian's Bonza-Las Penas gold-silver deposit in Ecuador known as the El Tigre anomaly. The El Tigre gold anomaly has yielded values in stream sediments of up to 40.4 ppm and abundant gold in the pan. The anomaly is a minimum of 300 x 400 m in size and defined by soil geochemistry and stream sediments. It is surrounded by a broader zone of anomalous silver, arsenic, copper, and zinc in soils.

There are limited rock outcrops within the area of the anomaly and it is planned to further investigate it with further follow-up sampling and pitting. Magnetic and IP surveys are also planned. The El Tigre anomaly is only four kilometers east of the Bonza-Las Penas gold-silver deposit.

posted by GEM : 10:19 AM

Monday, December 06, 2004

Water Contamination - Magnetic Survey for Reconnaissance

EPA scientists are trying to find the source of a plume of perchlorate contamination in shallow groundwater in Hills, Iowa. The investigation started in August 2003. Perchlorate is the main ingredient in the production of solid rocket fuel. Levels of about 180 to 200 parts per billion (ppb) can interfere with iodine intake by the thyroid gland, which can affect metabolism and cause thyroid tumors.

Results from the EPA's July tests showed the highest levels of perchlorate, at 330 ppb and 272 ppb, were found in a grain field south of Hills Elementary School and City Park. Perchlorate levels greater than 100 ppb were found in 12 groundwater samples in four acres west of the Cedar Rapids and Iowa City Railroad tracks.

With levels appearing generally stable, the EPA plans to reduce the frequency of well water testing to reduce costs. The agency has a spending cap of \$2 million for current efforts in Hills. EPA officials said they suspect partially exploded fireworks got ground up during a harvest. Other theories from residents are that discarded flares used to signal a train crossing or fireworks confiscated by the Fire Department caused the contamination.



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Researchers will be in town from Dec. 6-15 to do additional sampling south of the park and west of the railroad tracks. In addition, they will check groundwater and soil samples for fireworks remnants and use a magnetometer, an instrument likened to a sophisticated metal detector, to survey the area.

More information is at <http://www.press-citizen.com/apps/pbcs.dll/article?AID=/20041202/NEWS01/412020322/1079>

posted by GEM : 1:08 PM

Friday, December 03, 2004

Gold Exploration - Finding Host Mineralized Structure

COMTEX) -- (FinancialWire) Boxxer Gold Corp. (TSX Venture: BXX) has updated its geophysical program at its Gordon Lake gold project located 110 kms.northeast of Yellowknife in the Northwest Territories.

The objective of the recently completed geophysical program was to locate the mineralized structure that hosts the seven known zones of high grade gold mineralization beneath the shallow overburden between the Main and Union zones. A total of 6.4 line kms. of IP (Induced Polarization) and 10.3 line kms. of magnetometer surveys were completed on the property, which successfully outlined a geophysical trend over a distance of approximately 1,000 meters between the Main and Union zones.

More information is at <http://www.investors.com/breakingnews.asp?journalid=24248442&brk=1>

posted by GEM : 8:16 AM

Thursday, December 02, 2004

Diamond Exploration - High Priority Target Selection Using Magnetics

Kimberlite exploration in the Santo Antonio do Bonito valley is focusing on a single small tributary drainage upstream of the area of this drainage where the very large diamonds have been recovered. This single small drainage has yielded kimberlite indicator minerals including pyrope garnet, chromite, and ilmenite from alluvial samples processed at our Patos de Minas laboratory.

Brazilian Diamonds is searching for the bedrock source of these indicator minerals, using detailed geologic mapping, sampling, and ground geophysics to identify targets within this area (the "Bonito project"). Ground magnetic and electro-magnetic geophysical surveys have been collected over the Bonito project, and high-priority



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targets are expected to be ready for follow-up early in 2005.

More information is at <http://w5d2.ccnmatthews.com/scripts/ccn-release.pl?/current/1201023n.html>

posted by GEM : 8:56 AM

Tuesday, November 23, 2004

Copper / Gold Exploration - Combined Magnetics and IP

Mindoro Resources has released preliminary results from induced polarization and magnetic geophysical surveys over the Lobo project in the Philippines. The geophysical surveys suggest an intense alteration and stacking of geophysical anomalies suggest a porphyry copper-gold system centered under the Pica prospect.

The survey results define a large, strong induced polarization chargeability anomaly, from three to seven times background, and over an area of 700 m by 500 m, within a broader anomalous halo of one kilometre by one kilometre. A ground magnetic high anomaly is associated with the core of the chargeability anomaly. The chargeability forms a large bell-shaped anomaly flanked above by a high-resistivity anomaly. The new target will be drilled in 2005.

More information is at <http://www.infomine.com/index/pr/Pa205991.PDF>

posted by GEM : 8:50 AM

Monday, November 22, 2004

Gold Exploration - Magnetics for Mapping Alteration and Geology

MacMillan Gold Corp has awarded a contract to perform a minimum of 20 line km of ground geophysical surveys commencing November 19, 2004. The survey will initially cover a 100 meter spaced grid which covers the Maderito Target and its extensions along 2 km of structural trend. The survey will employ ground magnetic instruments (a magnetometer and base station) and Barlow FDEM 8 frequency ground electromagnetic survey instruments. The objective of the survey is to map, under alluvial cover, the geological contacts and altered zones which host the Maderito target.

More information is at <http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=109&STORY=/www/story/11-22-2004/0002496480&EDATE=>

posted by GEM : 4:17 PM



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Thursday, November 18, 2004

UXO - Magnetometer Data

The U.S. Army Corps of Engineers held a public meeting Tuesday at VIT Community School to discuss cleanup of World War II-era military ordnance at the old Camp Ellis area near Bernadotte. All of that property is now privately owned.

About 75 persons attended the meeting. Two 81-millimeter mortar rounds and two practice land mines have been found in the area so far. Due to safety concerns of moving such unexploded ordnance, the items were detonated in place, said Walt Perro, project manager for the Army Corps.

The land mines had been found 30 inches below the surface of the ground in a field. The mortar rounds were located in a wooded area. One was found 12 inches beneath the surface and the other 18 inches underground. The items were found with metal detectors called magnetometers which are sensitive to metal located four to five feet underground, depending on chemicals in the area and iron content present.

More information is at

<http://www.cantondailyledger.com/articles/2004/11/17/news/news1.txt>

posted by GEM : 8:49 AM

Wednesday, November 17, 2004

UXO - Magnetics to Help in Community Clean-up

Some area residents voiced support Tuesday night, while others remained skeptical, of an Army Corps of Engineers proposal to clean up ordnance in areas of the former Camp Ellis site in rural Fulton County.

The Corps looks for unexploded ordnance in the site formerly used for training soldiers during World War II with various types of munitions including rifles, grenades and rockets.

"Ultimately we are looking at what's best to protect the human health of the community," said Kim Turner of the Corps Public Affairs, also noting an Ordnance Explosives Risk Impact Assessment determined that there is minimal public safety risk on the site.

The Corps has been investigating the 17,445-acre site since 1996, conducting environmental studies and checking for ordnance and shrapnel.

Corps district program director Walter Perro said unexploded ordnance was found in two parcels that cover about 40 non-contiguous acres. Cleaning that up using a



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magnetometer, a material-detecting device, and subsurface clearance is expected to cost about \$600,000. The cost would be funded by the Corps' Formerly Used Defense Sites Program.

More information is at

http://www.pjstar.com/stories/111704/REG_B40LAEA6.025.shtml

posted by GEM : 11:02 AM

Archaeology - Making Digs Quicker, Easier, More Accurate and ... Effective

In a Mississippi Delta cotton field, the practice of archaeology is a painstaking business. But in addition to the traditional tools of the trade – shovels, trowels and screens – University of Mississippi students are using gradiometers, conductivity meters, resistance meters and thermal sensors to make their dig at the Parchman Place Indian mounds quicker, easier, more accurate and ultimately more effective.

The Parchman Place mounds near Coahoma were home to native Mississippians about 600 years ago, said Jay Johnson, director of the Center for Archaeological Research at Ole Miss. The three largest mounds at the site survived over 100 years as part of a cotton plantation. One served as the foundation for a large farmhouse and one barely escaped a bulldozer in the 1960s.

Johnson said early records indicate the site originally had five large mounds and more than 20 small mounds that have since been plowed down.

Using remote sensing data, Johnson was able to identify the locations of the now-vanished mounds by finding the remnants of at least 30 prehistoric structures at the site. "Remote sensing technology has made it possible to actually figure these sites out," Johnson said. "They're so large that this used to be quite a long process."

More information is at

<http://www.clarionledger.com/apps/pbcs.dll/article?AID=/20041116/NEWS01/411160342/1002/NEWS01>

posted by GEM : 10:52 AM

Nickel Exploration - Magnetism and Other Geophysics

Liberty Mineral Exploration Inc. (TSX-V: LBE) is pleased to announce that an agreement has been reached with Inco Limited ("Inco") to buy-back the December 2002 Option Agreement on the Redstone Mine Property for the sum of \$250,000 cash and 2,000,000 common shares of the corporation, to be delivered within 45 days. As part of the agreement Inco is granted the first right of refusal on any concentrates produced from the mine starting January 1, 2012 through December 31, 2014. The agreement is subject to regulatory approval.



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Since signing of the option agreement in 2002, Inco has spent approximately Cdn \$700,000 on the property in work and payments. Programs completed include diamond drilling, magnetometer, UTEM, bore hole EM (BHEM) as well compilation and digitizing previous drill hole information.

More information is at

<http://www.cnw.ca/fr/releases/archive/November2004/11/c1730.html>

posted by GEM : 10:46 AM

Copper Exploration - Magnetics, Chargeability and Gravity

Entree Gold Inc. (TSX-V: ETG - "Entree" or the "Company") announces results from 111 select rock samples from its wholly owned Bayan Ovoo copper showing on the Company's Lookout Hill property, Mongolia. Of the samples collected, 20 returned values in excess of 1% copper and another 22 returned values between 0.1% and 1% copper. In addition, one sample yielded 360 g/t (10.5 oz/t) silver and 1.47 g/t (0.043 oz/t) gold and 14 samples yielded in excess of 10 g/t (0.30 oz/t) silver.

"The Bayan Ovoo copper showing is more extensive than we originally anticipated," said Greg Crowe, Entree's President and CEO. "The widespread copper mineralization, combined with areas of alteration and satellite color anomalies in the valley to the north, suggests that the potential size of this new copper-silver-gold system is significant. Bayan Ovoo, along with Zones I, III and several other known showings, illustrate the widespread nature of mineralization in this belt. The potential remains high for the discovery of new areas of mineralization within the 140,000 hectares of the property that are outside of the Ivanhoe Mines Ltd. earn-in area."

A six kilometer by three kilometer grid has been established to cover the extensive area of exposed copper-oxide mineralization and two large satellite image color anomalies in the valley to the north. Spectral analysis of these color anomalies suggests the presence of silica and/or argillic alteration. Sporadic outcrops of volcanics and porphyritic intrusives occur within the valley, coinciding with these areas of potential alteration. Alteration studies along with geological mapping, geophysical surveys (IP, magnetometer and gravity) and soil and rock geochemical surveys are in progress.

More information is at <http://w5d2.ccnmatthews.com/scripts/ccn-release.pl?/current/1111033n.html>



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posted by GEM : 10:42 AM

Copper Exploration - Ground Magnetics and IP

Mr. Kenneth G. Sanders, P Eng, Director and Geological Consultant to Magnum d'Or Resources (Magnum) (OTCBB:MAGR) is pleased to announce that Magnum has received an exploration update for the current ongoing work program including a new copper discovery on the Kuhl Morit property license which is 100% fully optioned to Magnum.

The Kuhl Morit Property License number 6283X covers an area of 1.853 X 2.667 kilometers. The total area of the license is 4.94 kilometers squared (494 hectares or 1,220.7 acres). The license is located approximately 819 straight-line kilometers southwest of Ulaanbaatar in the western portion of the Gobi desert on Map K-47-111. Exploration work conducted during the Phase 1 program in April of 2004 consisted of hand trenching, rock chip sampling, geological mapping, soil sampling, and 3-D array (real-section inverted data) Induced Polarization and corrected Magnetometer geophysics.

The April 2004 work done by Magnum resulted with samples which returned significant copper, up to 1.77% and gold up to 0.729 g/t as well as significant indicator elements such as arsenic which is sometimes a pathfinder indicator of gold.

The current work program which is in progress is the second phase of the Kuhl Morit project and is supported by a 38 person 14-Ger camp located 1 kilometer north of the property boundary. Exploration currently underway consists of geological mapping and sampling, extension of the grid to the east and west of the April grid, soil sampling, Induced Polarization geophysics and magnetometer surveys, and diamond drilling.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20041110005765&newsLang=en

posted by GEM : 10:41 AM

Cu - Au Exploration - Coincident Magnetic and Chargeability Anomalies

Inca Pacific has commenced drilling at the Antoro Sur copper-gold project in Peru. The goal of the program is to delineate a resource by drilling approximately 30 diamond drill holes.

Drilling partially explored an area approximately 1900 m by 900 m where surface exposures of supergene enriched copper mineralization occurs within coincident magnetic and chargeability anomalies.

Drill results were encouraging and outlined good grade, shallow, supergene enriched "blanket" style copper mineralization over an area of over 1 sq km. Significant



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highlights from 2003 include 1.29% Cu and 0.46 g/t Au over 35.1 m in Hole AS 03-13, starting 32.0 m down hole.

More information is at <http://www.infomine.com/index/pr/Pa203252.PDF>

posted by GEM : 10:29 AM

Friday, October 29, 2004

Archaeology - Location of a Stockade Wall

The original stockade palisades wall at Presidio La Bahia in Goliad, Texas was the first line of defense against attack at the Fort built in the mid-1700s.

Texas Historical Commission archaeologists used a magnetometer to survey the area. "We discovered a line in the survey we wanted to examine in this dig," said THC archeologist Jeff Durst. "The location of the palisades stockade wall is historically important. This was the first line of defense for the fort."

More information is at <http://www.kwtx.com/home/headlines/1138041.html>

posted by GEM : 11:33 AM

Archaeology - Magnetics and GPS Help Detect Pottery Kilns

For centuries, trowels and handpicks have been traditional tools of the trade for archeologists, but a University at Buffalo geophysicist who has been working at an archeological site in Jordan is proposing that some decidedly 21st-century technologies, like tablet PCs equipped with fancy navigational software, ought to be standard gear as well.

"Non-invasive geophysical techniques, which allow researchers to image what's under the ground without digging, and real-time differential Global Positioning Satellite (GPS) technology, which provides resolution and accuracy to within a meter, can provide archeological teams with significant benefits," said Gregory S. Baker, Ph.D., associate professor of geology in UB's College of Arts and Sciences.

Archeologists at the Jordanian site are looking for evidence that the Roman fort may have included a large kiln site, indicating that as the Romans moved into a new area and conquered territory, they established a local means for producing pottery. "There's tremendous interest in whether or not there was a large-scale kiln area at this site," said Baker, noting that the fort is one of the few examples in Jordan of an ancient Roman military installation.

"We were looking for a magnetic signal under the surface because once you heat earth past the Curie temperature, as would be the case during the firing process, it acquires a permanent magnetic signal that persists even today," he said.



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Using magnetometers, Baker, along with Heather Ambrose, a master's-degree candidate in the UB Department of Geology, and Scott Gagliardi, an undergraduate geology major, surveyed the area in an effort to identify subsurface areas with magnetic signatures. They found some localized "hot spots," which Baker said "have a pretty high likelihood of indicating there's a kiln there.

"Since we collected the magnetics data with real-time differential GPS, we were able then to come back to the archeologists, show them the images and give them the exact latitude and longitude coordinates," said Baker. "When they returned to the field, they were able to locate these coordinates to within one meter, even though this was the middle of the desert and there were no landmarks to assist them," he said.

More information is at <http://www.newswise.com/articles/view/507880/>

posted by GEM : 11:08 AM

Tuesday, October 26, 2004

Diamond Exploration - Magnetics Extends Targets

African Diamonds, the exploration company chaired by Irish entrepreneur John Teeling, today said it had formed a joint venture with De Beers in Botswana. Boteti Exploration, in which African diamonds will have a 49pc stake and De Beers 51pc, will purchase the prospecting licences currently held by its shareholders, subject to the approval of the Botswana government. A program of systematic drilling is to commence in the near future, African Diamonds said.

The joint venture currently comprises eleven prospecting licences covering 3,964 square kilometres in three project areas; Orapa, Serowe and Shashe. De Beers Prospecting Botswana began exploration work in April and has made considerable progress with an extensive programme of airborne and ground geophysics in the Orapa area. The Orapa licences contain 29 known kimberlites of the Cretaceous Orapa kimberlite province.

The economic potential of each of the 29 kimberlites is being investigated, with detailed ground geophysical surveys have been completed over all of the kimberlites. Early results indicate that several of these kimberlites may be considerably larger than previously believed, African Diamonds said. In addition, the joint venture has applied for prospecting rights to a further 10 kimberlites.

More information is at

<http://www.businessworld.ie/livenews.htm?a=1029178;s=rollingnews.htm>

posted by GEM : 8:52 AM



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Thursday, October 21, 2004

Modern Archaeology - Searching for a Lost Piano?!

Efforts to end the Red Sox's 86-year-old championship drought will need to wait until next year due to a lack of any funding. The Restoration Project, an Acton-based organization, has been attempting to break the "Curse of the Bambino" on the Red Sox by finding a lost piano that once belonged to Babe Ruth. The organization has been unable to raise the money needed to find the instrument believed to rest at the bottom of Willis Pond.

Volunteer divers have gone into the mucky water of Willis Pond four times to search for the piano. In November 2002, John Fish, an expert in locating submerged objects, found three potential sites using a magnetometer. The equipment locates variations in the Earth's magnetic field cause by large masses of metal.

Three "hot spots" were determined to potentially be the piano by Fish because of the depth and size of the metal objects. Divers have been unable to examine the three sites because they lack the sophisticated equipment that Fish can provide. Because of time constraints last year, Fish was unable to search the entire pond. He was asked to return at a later date to do so, but has not been able to schedule time around his business.

More information is at

<http://www2.townonline.com/sudbury/localRegional/view.bg?articleid=108303>

posted by GEM : 9:21 AM

Gold Exploration - Aggressive Exploration Using Magnetics

Oromin Explorations Ltd. is pleased to report that the Oromin Joint Venture Group has been awarded an exploration concession by the Government of Senegal covering 230 square kilometres (the "Sabodala Project") in West Africa.

The 230 square kilometre Sabodala Project is underlain by the same greenstone geologic environment that contains the broad Mali-Senegal Shear Zone, which hosts many large gold deposits in adjacent Mali, including the Sadiola Gold Deposit of IAMGold and Anglogold. The 9.8 million ounce Sadiola Gold Deposit has an annual production of approximately 600,000 ounces of gold. Additional world-class gold deposits in adjacent Mali hosted by the same structural/geological environment include: Morila (5.6 million ounces); Syama (5.2 million ounces); and Loulo (4.0 million ounces).

The Sabodala Project surrounds the 20 square kilometre exploitation concession (see attached plan map) that hosts a number of mineral prospects, including the Sabodala Gold Deposit, and is located in southeastern Senegal, some 600 kilometres from the capital city of Dakar. Access to the project area is very good with all-weather roads



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leading to and throughout the project area, as well as airplane access to a private, paved air-strip within the concession boundaries. The political climate in Senegal is excellent and the country's newly enacted Mining Code is very attractive for both exploration and development of mineral resources.

Oromin plans to immediately initiate an aggressive exploration program on the Sabodala Project. Exploration activities will include Landsat-Radarsat imagery interpretation, airborne geophysics, ground geophysics (including magnetics and induced polarization), regional and detailed geochemistry surveys, prospecting, geological and structural mapping, manual and mechanical trenching and extensive drilling, beginning with drilling on the Golouma and Kobokoto prospects in the vicinity of the BRGM trenching as soon as possible after the commencement of exploration.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20041020006122&newsLang=en

posted by GEM : 9:16 AM

Wednesday, October 20, 2004

Environmental - Tracking a Groundwater Plume

The U.S. Environmental Protection Agency Region 7 will have a community meeting Dec. 1 about ongoing groundwater and soil sampling efforts in Hills.

During its July visit, the EPA added one more household to the list of residents who are receiving bottled water for having wells with contaminants higher than 18 parts per billion, according to Craig Smith, project leader with EPA Region 7. The list now totals 25 households. EPA scientists have been trying to find the source of a plume of perchlorate contamination in shallow groundwater in Hills since August 2003.

The plume now is moving westward, but its speed is unknown, Smith said. Quarterly sampling will resume Dec. 6-15 when scientists will use ground penetrating radar and a magnetometer to investigate a field on the north edge of a cornfield, west of the railroad tracks, Smith said.

More information is at <http://www.press-citizen.com/apps/pbcs.dll/article?AID=/20041019/NEWS01/41019008/1079/NEWS01>



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posted by GEM : 11:43 AM

Tuesday, October 19, 2004

Archaeology - Magnetometers for Finding Sunken Ships

Tuscaloosa officials are seeking to have the Confederate ironclad Tuscaloosa raised from the bottom of the Mobile River just north of Mobile where it has rested for 139 years. They want it brought to their city for permanent display.

Sydney Schell, a retired Mobile maritime lawyer, spent many years searching for the Tuscaloosa and its sister ironclad, the CSS Huntsville. Confederate forces scuttled the two ironclads in the evacuation of Mobile on the afternoon of April 11, 1865, he said. During December 1983, Schell pinpointed the two vessels: They were covered in mud at the point where the Spanish River splits off from the Mobile River, a few miles north of the Cochrane-Africatown Bridge.

He located them within 200 feet of each other through the use of a magnetometer -- an instrument that measures magnetic forces -- and the help of expert Carl Helwig from New Orleans.

More information is at

<http://www.al.com/news/mobileregister/index.ssf?/base/news/1098177412128871.xml>

posted by GEM : 11:30 AM

Monday, October 18, 2004

Diamond Exploration - Modeling of Ground Magnetic Data

Delta Mining and Exploration Corp., <http://www.deltamine.com>: is a mineral exploration company with an extensive portfolio of diamond properties in Montana, USA and in Bolivia, South America. Delta controls some 7,500 acres throughout Montana located within the Wyoming Craton where many of North America's diamonds have been found. Another 10,000 acres of prospective diamond properties are controlled in Bolivia, South America.

Initial exploration of the Independencia property in Bolivia has identified three known occurrences of alluvial diamonds (diamonds that have been eroded from one place and deposited in another) in the region where Delta controls their properties. The region has also been subject to surges of alkaline magmatism in the form of syenites, alkaline gabbros, basalts, carbonatites, swarms of mafic to ultramafic lamprophyric dykes and breccias together with some petrographically identified kimberlites; all of which are precursors to successful diamond exploration. It is these findings on the Independencia property together with the existence of alluvial diamonds that validate continued and more extensive exploration.



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The other target property is a little more speculative, but may represent a second "diamond line" similar to the Brazilian "AZ 125 lineament" that runs from Minas Gerais to Rondonia. That "diamond line" contains most of that country's diamonds, and it is the underpinning geology that makes Delta management excited to continue further exploration. In addition to ground geophysics, some pyrope garnets, a major diamond indicator mineral, have been discovered. Aeromagnetic surveys flown have produced clusters of bullseye dipole anomalies that may be indicative of kimberlites or lamprolites. Recent computer modeling of airborne and ground magnetic data has revealed pipe-shaped sources providing specific exploration targets.

More information is available at http://biz.yahoo.com/prnews/041013/sfw098_1.html

posted by GEM : 2:13 PM

Monday, October 04, 2004

Archaeology - Searching for Blackbeard's Flagship

For the first time in four years, state underwater archaeologists plan to dig on the site believed to be the wreckage of the Pirate Blackbeard's flagship. The main purpose of the dive is to assess and document any damage to the site caused by recent hurricanes.

But while they are down there, archaeologists want to find out what set off their metal detectors when they conducted magnetometer surveys in 1999 and 2001, Southerly said. If they come across some fragile pieces in the process, they will bring them up, he said.

The magnetometer may have been picking up part of the ship's rigging or possibly another cannon, Southerly said. Archaeologists don't really know yet, he said.

More information is at <http://www.jdnews.com/SiteProcessor.cfm?Template=/GlobalTemplates/Details.cfm&StoryID=26130&Section=News>

posted by GEM : 9:19 AM

Friday, October 01, 2004

Gold Exploration - Follow Up Using Ground Magnetics

Anglo Swiss Resources Inc. has received payment, as specified under the terms of the previously announced Option Joint Venture Agreement on the historic Kenville Gold Mine. In addition to total payments of \$100,000 to Anglo Swiss, the Optionee is scheduled to complete surface and underground exploration programs totalling \$700,000 prior to August 29, 2006.

Although the Kenville Mine has not been in production for decades, figures released in



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1990 ranked it as the 26th largest gold producer in British Columbia history. British Columbia Government records indicate that between 1890 and 1954, the Kenville Mine produced 2,024,306 grams of gold (2 metric tonnes) from 181,120 tonnes of ore. A new geological evaluation to determine current and prospective ore reserves has been commissioned and is expected to be filed shortly.

A surface exploration program is being considered to enlarge the soil geo-chemical grid to explore and expand the present anomalies discovered during the mid 1990's by Teck Corp during a two-year drill program. A geo-chemical soil grid located a large copper, gold, silver and molybdenum anomaly, which may overlie a zone or zones of foliation-conformable porphyr copper-style mineralization. The soil anomaly is located near the periphery of a felsic intrusion in a virtually unexplored area. The anomalous area is 1000 meters in strike length and 250 meters in width, and is open to expansion. Magnetometer and VLF-EM surveys, machine trenching, surface prospecting and geological mapping will be used to follow-up the anomaly.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040930005915&newsLang=en

posted by GEM : 10:29 AM

Friday, September 24, 2004

Gold Exploration - Magnetic Gradiometer Ground Surveys

Inter-Citic is pleased to announce that it has commenced exploration on its 275km(2) Dachang Gold Project in the Province of Qinghai, China. The exploration program consists of gradient magnetometer, electromagnetic and IP surveys, extensive mechanical trenching, sampling and 15,000m of diamond drilling.

To support this exploration activity, Inter-Citic has completed construction of an all season 30-man exploration camp on the property. A satellite communication system is on site and will provide clear transmission of data to and from the camp.

The primary focus of the exploration program will be to extend the known gold zones on the property and to explore for new zones along the Gaude-Maduo Thrust Fault, a regional gold bearing structure, which transects the property.

More information is at

<http://www.cnw.ca/fr/releases/archive/September2004/23/c3093.html>

posted by GEM : 10:24 AM



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Tuesday, September 21, 2004

Diamond Exploration - Target Scale Ground Potential Field Surveys

Tahera Diamond Corporation announces that it has concluded its summer exploration program. The program included drilling on the Jericho Claims and the Polar Project as well as ground and airborne geophysics, aerial photographs, and till sampling. A regional exploration program was also completed.

The Polar Group exploration program was the first program undertaken since Tahera entered into an agreement with De Beers on the property in early 2004. The program was designed to locate and investigate exploration targets for upcoming programs, as well as drill test targets within several priority areas.

Target scale ground magnetic and gravity surveys, till sampling to confirm indicator trains and geochemical signatures, and regional ground gravity surveys were also undertaken over several high priority areas of the Polar leases. The regional gravity surveys covered over 15,100 acres, and further geophysical surveys are planned here in 2005.

More information is at http://biz.yahoo.com/prnews/040921/to178_1.html

posted by GEM : 11:59 AM

Monday, September 20, 2004

Gold Exploration - Selection of Targets using Magnetics

Gold Canyon Resources Inc. is pleased to announce the Company has acquired additional claims in the north central portion of its Springpole Project in an area known as Dole Lake and Sandy Point. At the Dole Lake area, the newly staked claims cover extensions of a large gold bearing, northwest deformation / alteration zone. Known gold occurrences within this deformation zone, on the Company's ground, have yielded historic samples grading to .089 ounce gold in outcrop.

To date exploration work on this zone has been limited to sporadic outcrop stripping, and limited surface sampling. At Sandy Point, the recently staked claims cover newly identified extensions highly folded, deformed and altered Banded Iron Formation with abundant quartz veining and pyritization up to 30 meter in exposed width.

The Company is initializing an expanded program of outcrop stripping, channel sampling, and combined airborne and ground geophysical surveys to identify suitable drill targets for the planned, upcoming winter drill campaign. Detailed ground magnetics will begin on or about September 20th, and airborne geophysics consisting of combined air magnetics and radiometric surveys is scheduled to begin on or about September 27th.

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More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040917005084&newsLang=en

posted by GEM : 9:05 AM

Thursday, September 16, 2004

Base Metal Exploration - Follow Up Magnetics

Adanac Gold Corp. (AUA: TSX-V), is pleased to announce results from soil sampling adjacent to the Thor and Hobo showings, which are located 1.5 kilometres east-northeast of the Adanac porphyry molybdenum deposit.

Mineralization in this area consists of anastomosing, sheeted, and complex networks of quartz-sulphide veinlets and fracture coatings which average 2 to 5 centimetres in width and have various orientations. Molybdenum mineralization comprises blebs, streaks, books, and rosettes of molybdenite usually associated with dull, milky, cryptocrystalline quartz. Galena, arsenopyrite, and wolframite are commonly associated with the quartz veins.

The Thor and Hobo showings will be the focus of additional fieldwork including magnetometer geophysics in order to outline future diamond drill targets. More information is at http://biz.yahoo.com/prnews/040915/to094_1.html

posted by GEM : 8:17 AM

Monday, September 13, 2004

Forensics - Magnetism Used in Forensic Searches

South Dakota's new cold case unit got off to a high-profile start when investigators unearthed evidence in the 1971 case of two missing high school girls from Vermillion.

Investigators searched a Union County farm last month for clues in the disappearance of Sherri Miller and Pamela Jackson. Among the items recovered were bones and bone fragments, pieces of painted metal, clothing, photos, a purse, rubber gloves and letters.

Steve Feimer, a University of South Dakota political science professor and retired police officer, brought magnetometer to the farm where investigators searched for clues in the 1971 case so detectives would know where to dig for evidence.

It marked the first time such a device has been used in a criminal case in South Dakota.

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"This is a multi-disciplined approach to solving a crime," said Feimer. "Certainly archaeology people and earth science know about looking underground more than people in law enforcement do, because that's their study."

More information is at

<http://www.aberdeennews.com/mld/aberdeennews/news/9646930.htm>

posted by GEM : 8:17 AM

Copper and Gold Exploration - Magnetics to Confirm Airborne Targets

Maple Minerals Corp. is a Toronto based resource company with properties in Africa, Canada and the Dominican Republic. The company announced that geological mapping and grid work had commenced on the Lang Lake copper-gold property 40 miles (64 km) west of Pickel Lake, Ontario.

Drill casings and old trenches have been located as well as the original base line (in unburned swamp areas) and it is now possible to accurately reconstruct the location of the mineralized zones relative to the IP and geochemical anomalies. A ground EM-magnetometer survey will be completed in September to confirm the location of the other airborne magnetic-EM targets.

More information is at

<http://www.cnw.ca/fr/releases/archive/September2004/10/c8507.html>

posted by GEM : 8:14 AM

Tuesday, August 31, 2004

Marine Archaeology - Iron-sensing Magnetometers Used in Search for Slave Ship

Archaeologists and others are trying to locate the Guerrero, a slave ship headed to Cuba that ran aground in 1827, killing at least 41 slaves.

Using iron-sensing magnetometers and old records as their guide, a team of researchers is trying to locate what salt and storm have not claimed of the slave ship Guerrero, which crashed into coral while being pursued by a British-flagged vessel -- the HMS Nimble -- patrolling off the Bahamas. In the end, the Guerrero sank as part of a tragedy whose history, like that of other slave ships, has yet to be fully written.

In recent weeks, Malcom has found about 40 locations where he believes anchors, nails, cannonballs, or metal rigging from both vessels may lie. Next, he plans to craft a map of dive sights from data culled from the magnetometer. If closer inspections yield items, researchers will have to seek permission from NOAA and the state to raise them and take a closer look.

More information is at <http://www.miami.com/mld/miamiherald/9525103.htm>



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posted by GEM : 8:30 AM

Mineral Exploration - Massive Sulphide Prospecting Using Magnetics

Orphan Boy has released results from the first phase of drilling on the Spire occurrence within the Goldstream property near Revelstoke, British Columbia, Canada. Spire is a volcanogenic massive sulphide target. A total of 1559m of surface drilling have been completed in 14 holes from 10 different locations. Results of drilling include Hole SD04-08 at 1.00m grading 0.794% Cu, 0.410 Pb and 3.180 %Zn including 1.00m 0.678 % Cu, 0.069 % Pb and 0.368 % Zn.

Magnetometer and VLFEM surveys have been completed over the Spire grid. Drilling to further test the projected Spire mineralization for a potential high-grade copper/zinc Goldstream type deposit is subject to completion and interpretation.

posted by GEM : 8:14 AM

Friday, August 27, 2004

Base Metal Exploration - Ground Magnetics Follow-Up

Orphan Boy Resources Inc. (TSX Venture: ORS) said it has encouraging results from the first phase of drilling on the Spire occurrence. The Spire is one of the Company's numerous volcanogenic massive sulphide targets within the Goldstream property near Revelstoke, British Columbia and is within 15km of the Company's 1000 mt/day Goldstream mill.

As of August 13, 2004, 38.8km of cut grid has been established over the Spire occurrence covering 2.2km of strike length to the east and southwest of the discovery outcrop. The grid has been soil sampled at 25m centers for the Mobile Metal Ions (MMI) analytical technique. This method has been proven to be effective on detecting ore bodies buried under glaciated till. A total of 1,389 samples were shipped to XRAL Laboratories, a division of SGS Canada Inc., Toronto, ON for MMI (copper, zinc, cadmium and lead) analysis; results are pending. Magnetometer and VLF-EM surveys have been completed over the Spire grid.

More information is at

<http://www.investors.com/breakingnews.asp?journalid=22836687&brk=1>

posted by GEM : 8:30 AM

Wednesday, August 25, 2004

Archaeology - Characterization Using Magnetics

Nearly a million pieces of the former Spanish mission on St. Catherines Island were unearthed by David Hurst Thomas, curator of anthropology at the American Natural History in New York.



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In 1977, Thomas began a quest to find the mission, the northernmost outpost of Spanish-held territory in the New World. Thomas and his team used a magnetometer, ordinarily used to find sunken steel ships. St. Catherines was also one of the first places where ground-penetrating radar was employed, Hayes said.

But the researchers really didn't know how to use the data the instrument was giving them. "They had three funny readings," Hayes said. Thomas decided to dig at the site of the first peculiar reading and the researchers found a 16th century well. Their next two sites revealed even more.

Their next find was the kitchen of the mission. They found a silver toothpick, but it was Moorish in design. Further digging revealed teeth and rosaries. Eventually, they found the church itself. There were 430 skeletons buried in the church, Hayes said. "They found a lot of religious paraphernalia," he said, "more than any of the other Spanish New World missions put together."

More details are at

http://www.zwire.com/site/news.cfm?newsid=12774738&BRD=1389&PAG=461&dept_id=161952&rfi=6

posted by GEM : 4:58 PM

Copper and Gold Exploration - Ground Magnetics for Follow Up

Magnum is pleased to announce an additional update for the rock chip samples and soil geochemistry on the Khul Morit license. It was discovered that many of the trace elements normally associated with porphyry copper deposits such as copper-arsenic-gold were present in above average quantity from 85 rock chip samples taken from the Khul Morit. The samples which returned significant base (copper) up to 0.177 %, precious (gold) up to .729 g/t, and indicator elements (arsenic) metal content are listed as can be seen on the Company's website.

Due to the presence of anomalous gold geochemistry in soils and limited rock chip samples, detailed mapping/trenching and IP/magnetometer geophysics on the south and west portion of the property is recommended. For example, rock sample 184024 which returned 729 ppb Au, is hosted in silicified, limonitic, and fractured rhyolite tuff/flow sampled from a 15 X 20 meter area, and is located in the west portion of the Khul Morit mineral license. The areas to the west, as well as the south portion of the 2004 grid area are underlain by clay altered rhyolite tuff/flow.

More information is at

http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040823005401&newsLang=en



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posted by GEM : 11:14 AM

Monday, August 23, 2004

Searching for Sunken Ships - Magnetometer Towed on Surface

The Hunt for the Alligator begins today. For the next 10 days, federal researchers will search miles of the ocean floor off Cape Hatteras, N.C., for the lost Civil War submarine. The Alligator was the U.S. Navy's first sub, but its 1863 sinking en route to Charleston relegated it to history's back seat for more than a century.

This time around, a search boat will carry a remotely operated vehicle that can motor along the ocean floor and a "magnetometer" to scan for metal below the water's surface, officials said. Federal marine archaeologist Michael Overfield said the magnetometer will be able to locate the Alligator even if it's buried. "It's the perfect tool in case she's covered up by sand or any sediments," he said. Also, the remotely operated vehicle will be fitted with a camera to send images from the ocean floor to the boat -- so researchers can know right away whether an object they've detected is the submarine.

More information is at

http://www.charlotte.com/mld/observer/news/local/states/south_carolina/counties/york/9465083.htm

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Marine Archaeology - Magnetometer Towed on Surface

The smooth, murky top of this ancient waterway on the upper Eastern Shore gives up nothing about the treasures that lie underneath.

And divers who try to peer underneath the surface say the Chester River is nearly opaque. It's so dark and thick with sediment that they must feel for objects inches from their faces. The blackness sucks up anything visible.

Washington College associate professor John Seidel, with the help of the archaeology department he started six years ago, has assembled a trio of specialized underwater scanners that he hopes will solve some of the mysteries of the Chester.

Riding over the wide river in Seidel's research boat, the only sound is the hum of its motor. Inaudible is all the work going on under the water — the sound waves beaming toward the river floor 50 feet below.



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On one side of the boat, side-scan sonar is transmitting sound waves that pulse through the water and bounce off the riverbottom. The data later will create color-coded relief maps that reflect the image of the river floor.

A magnetometer skims the water about 20 feet behind the boat, looking for signs that a chunk of iron may lie hidden nearby. A strong signal could reveal an engine block, not interesting to an archaeologist, or something more intriguing – a pier piling, cannon, anchor or steel riggings and fittings on a ship.

Strapped to the other side of the boat is the instrument that makes this research more sophisticated than most underwater archaeology projects, Seidel said. The \$30,000 RoxSwath is one of only two in the world and was developed by the Scottish company SonaVision. Its twin is being used for fisheries research in Ireland.

More information is at

<http://www.wvec.com/sharedcontent/APStories/stories/D84ACV8G1.html>

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