#### Assessment Report

ON GROUND MAGNETOMETER, GROUND SPECTROMETER, AND SOIL AND SILT GEOCHEMICAL SURVEYS

#### FOR

#### **GOLDSTRIKE RESOURCES LTD.**

#### 1300-1111 West Georgia Street,

#### Vancouver, B.C., V6E 4M3

#### on the

#### BRC & J CLAIMS PROJECT, WHITEHORSE MINING DISTRICT

BRC CLAIMS &	GRANT	EXPIRY	REGISTERED	%	NTS #
NUMBER	NUMBER		OWNER	OWNED	
BRC 7 - 14	YC94407-	2015/06/04	CLOUDBREAK	100	1150 03
	YC94414		RESOURCES LTD.		
BRC 21 -36	YC94421-	2015/06/04	CLOUDBREAK	100	1150 03
	YC94436		RESOURCES LTD.		
BRC 37 - 38	YC94437-	2012/06/04	PETRO ONE	100	1150 03
	YC94438		ENERGY CORP.		
J 1 - 5	YD129235-	2012/05/25	TERRY KING	100	1150 03
	YD129239				

Latitude 63<sup>o</sup> 11' 00" N, Longitude 139<sup>o</sup> 21' 00" W (583,000E, 7,007,000N, NAD83 Zone 7N)

Data Collection by

Druid Exploration Inc., Dawson City, YT

Report by

Ronald F. Sheldrake, B.Sc. EarthWorks Geophysical Consultants White Rock, British Columbia

February 5, 2012

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### LIST OF GEOPHYSICAL MAPS PRESENTED IN THE TEXT OF THIS REPORT - PDF

MAP NUMBER	TITLE	Scale
MAP 1	2011 GEOCHEMICAL SUMMARY MAP (SHOWING CLAIMS)	1:10,000
MAP 2	AIRBORNE TMI MAGNETOMETER MAP	1:10,000
MAP 3	AIRBORNE TC SPECTROMETER MAP	1:10,000
MAP 4	2011 GROUND TMI MAGNETIC MAP	1:2,500
MAP 5	2011 GROUND TC RADIOMETRIC MAP	1:2,500
MAP 6	2011 ROCK AND SILT GEOCHMISTRY MAP	1:10,000
MAP 7	2011 SOILS GEOCHEMISTRY MAP	1:10,000
MAP 8	PERMAFROST SOIL GEOCHEMISTRY MAP	1:10,000

versions of the geophysical maps are included on a CD/DVD that comes with this report.

# LIST OF FILES ON THE CD/DVD INCLUDED WITH THIS REPORT

FILE DESCRIPTION	FILE FORMAT
Precision Airborne Data (2010)	GEOSOFT.gdb Format
Mag and Spec Ground Data Sets (2011)	GEOSOFT.gdb Format
Rock, Soils, Silt Geochem Data (2011)	GEOSOFT.gdb Format
Kryotek Geochem Data (2011)	GEOSOFT.gdb Format
This report	PDF Format

### **1. INTRODUCTION**

Between June 3 to June 10, 2011 exploration work was undertaken on portions of the BRC & J Claims group by Druid Exploration Inc., Dawson City, on behalf of Goldstrike Resources Ltd. The work comprised two ground geophysical surveys as well as soil, stream and rock sampling. The incentive for these programs came from previously flown airborne magnetic and spectrometer surveys (Precision Airborne Surveys Ltd.), as well as previous soil sampling surveys that indicated elevated Au values. That exploration work was completed by previous holders of the claims, Cloudbreak Resources Ltd.

The purpose of the present exploration program was to identify zones that might lead to commercial quantities of gold mineralization.

### **2. D**ISCLAIMER

The author has prepared this report based upon information believed to be accurate, but is not guaranteed. This report may contain sanguine statements. For example, a statement such as, *"the data suggest the potential for mineralization,"* is accepted as incomplete. It is taken for granted that the reader accepts this class of statement as an inherent element in an interpretation report, and therefore does not require a cautionary statement at every instance.

### 3. CLAIM LOCATION AND SURVEY GRIDS

The BRC property is located 96 km south of Dawson City, YT. Access was by helicopter from Dawson City.

The locations of the previous airborne geophysical survey, ground geophysical surveys and the present soil, rock and silt samples that were collected are indicated on the map below (Illustration 1). The 2011 magnetic, radiometric and geochemistry sampling surveys which are the topic of this report, were undertaken on survey grids covering a portion of the BRC & J claim blocks.



Illustration 1: Summary Location Map for 2011 Geochemical Surveys

Survey Type	Kilometers <u>Number of Traverses</u>		Unit of Measurement /
	Measured		Noise Levels
Ground Magnetometer	16.6 km	21 Survey Lines	nanotesla/ +/-2.0 nT
Ground Spectrometer	15.1 km	14 Survey Lines	cps +/-5cps
Survey Type	Num	ber of Samples	
Rock Sample	28		
Silt Sample	4		
Soil Sample	103		

The survey statistics (for the 2011 exploration program) are as follows:

Permafrost Soil Samples	126
(Kryotek Innovation)	

### 4. **Geology**

The BRC/J Property is located within the Yukon-Tanana Terrane; a composite of crustal blocks including former volcanic island arc and continental shelf depositional environments. The dominant rocks are quartzite, quartz-mica schist and marble older than 360Ma. These metasediments are occasionally intruded by granitic and volcanic rocks between 350 and 250 Ma. The Stewart River area is mainly underlain by Paleozoic, twice-transposed, amphibolite facies gneiss and schist, overlain in areas by Upper Cretaceous volcanics. Amphibolite, with intermediate to mafic compositions, interdigitiates with and also overlies the metasediments. Intrusions of Jurassic, Cretaceous and Eocene plutonic rocks also occur within this region. <sup>4</sup> Ryan et al.

### 5. **2011 FIELD WORK**

The exploration program was carried out by staff of Druid Exploration Inc. and included the following crew:

Geologists: Ryan Libke, Clayton Jones, Daithi Mac Gearailt

Prospectors: Franz Vidmar, Stuart Fraser, Ruth Bjorkman

Soil and Silt Samplers: Myles Rusk, Brad Osmond, Sam Lewis, G. Galloway, Sam Snelling Geophysical Operators: Clayton Jones, Sam Snelling and Greg Galloway

Days worked by Druid Crew:

June 3, 2011 – 2 samplers, 2 prospector, 1 geologist

June 4, 2011 – 1 prospector, 2 geophysical operators

June 6, 2011 – 1 geologist, 1 geophysical operator

June 10, 2011 – 2 samplers, 1 geophysical operator

The drill sampled geochemical survey was contracted out to Kryotek Arctic Innovation Inc. They provided crew and equipment at their own cost, however Druid Exploration Inc. provided lodging and helicopter transport to and from the BRC/J site.

### 6. **Previous Geophysical Surveys on the property**

On October 19, 2010 Precision Airborne Surveys Ltd. contracted to fly a helicopter magnetic and spectrometer survey on the BRC claims. The 2 km by 3 km survey block comprised of 50 meter intervals for the survey lines and tie-lines. The total survey kilometers flown was about 110 km. The data were of good quality and provided a very interpretable data-set. The key maps from the survey are displayed below with interpretation.



6.1 Helicopter Magnetic Survey

Illustration 2: 2010 Airborne Magnetic Image (TMI-nT) showing Interpretation



### 6.2 Helicopter Radiometric Survey

Illustration 3: 2010 Spectrometer Image (Total Count - cps) with Magnetic Interpretation

## 7. GROUND MAGNETOMETER AND SPECTROMETER SURVEYS

### 7.1 2011 Ground Magnetic Survey

The ground magnetometer survey was carried out on June 4 and 6, 2011 on the BRC Claims using approximately 20 meter line spacings. The data are well interpretable and of good quality. Maps images and interpretation of the data are displayed below. The data was collected with a GEM 19 Walking Magnetometer and the data was corrected for diurnal variations using a GEM 19 base-station.



Illustration 4: 2011 Ground Magnetic Image (TMI-nT) showing Interpretation

#### 7.2 2011 Ground Spectrometer Survey

The spectrometer survey was carried out on June 6 and June 10, 2011. The data that was collected on June 6 is of good quality. The "walking" spectrometer system is a PGIS 21 that was manufactured by PicoEnvirotec of Toronto, Ontario. It is a backpack system with a 20 cubic inch sodium iodide crystal and GPS positioning control.

Only about half the grid was surveyed due to logistics and wet weather. The fill-in spectrometer measurements were attempted again on June 10, however the ground surface was wet and the data was deemed to noisy to be reliable.



Illustration 5: 2011 Ground Spectrometer Image (TC-cps) with Magnetic Interpretation

# 8. **GEOPHYSICAL TECHNIQUES**

### 8.1 Magnetic Technique

Magnetometer data are used to identify rock types, faults, and alteration zones. Much of the time, the magnetic responses arise from the minerals magnetite and pyrrhotite, and although ilmenite, chromite, and platinum and other minerals are magnetic, they are much less so.

Magnetic maps provide a picture of the distribution of magnetic materials in the subsurface rocks. In general, localized magnetic responses (sometimes they are called "anomalies") that arise from the surface and near surface distributions of magnetic materials, are of shorter wavelength than those that arise from deeper seated sources.

Occasionally, magnetic responses right away lead to the detection of commercial ore-bodies, although this is rare. For example, a massive sulphide ore-body might contain pyrrhotite as one of its constituent minerals, and the magnetic maps will therefore identify and delimit the

orebody. However, there is a whole spectrum of magnetic responses that can arise due to mechanical, metamorphic and geochemical changes in rocks.

#### 8.2 Radiometric Technique

Gamma-ray spectrometer surveys are utilized for mapping the concentration and distribution of naturally occurring radioelements in the rocks. The use of an airborne and ground gamma-ray spectrometer allows for the in-situ analysis of radioelement concentrations of naturally occurring Potassium (K), Uranium (U) and Thorium (Th).

The concentrations of K, U, and Th can be diagnostic in the mapping of rocks and soils. In the exploration for uranium, gold, copper, tin and tungsten since mineralization is often related to K alteration so that radiometric data provide a useful exploration tool.

Radioactivity measurements are dependent upon the detection of gamma rays produced through radioactive decay of the nuclide to be detected and the data are fundamentally statistical. The primary field data is collected in units of counts per second (cps).

It should be noted that the radiometric emanations are derived from only surface materials in order of 0.5 - 1.0 cm deep. Snow can suppress the radiometric responses, and water can mask it altogether.

## 9. Geophysical Data and Interpretation

Interpretation of the ground magnetic and spectrometer data involves reviewing the data in profile, whilst evaluating their significance to their plan map representations with any geological, geochemical, topographical and other exploration information that is available. If the data are complete and indicative of suitable exploration information an overall interpretation map-image is derived. One map-image from each of the principal data sets are illustrated in the text of this report along with an interpretation. However, all map/images are presented digitally on the CD/DVD that comes with this report, namely Total Magnetic Intensity image/maps set, and Total Count Spectrometer image/maps. All maps and datasets used in this survey use NAD 83 Zone 7N coordinate system.

# 10. 2011 GEOCHEMICAL SURVEYS

Four classes of geochemical surveys were undertaken on the BRC/J claims in 2011, including rock sampling, silt sampling, soil sampling and Kryotek Arctic Innovation's "permafrost sampling." A complete record of the rock, soil, and silt geochemical sampling data-sets is also provided as Geosoft.gdb databases that are included on the CD/DVD that comes with this report.



Illustration 6: 2011 Geochemical Sampling Location Summary Map

### 10.1 Rock Sampling

Rock samples were taken based on lithology, mineralogy, and structure. A representative sample was taken for all major units/structures despite mineralogy. Sample locations were marked on the GPS and labeled with the lab tag number used. The sample locations were marked with labeled

flagging tape. Rock and Silt locations are plotted with Au (PPB) values on the map below.

The geochemical sample locations (coordinates) were downloaded into the computer and stored in a database with all corresponding notes. Rock samples were photographed and their description recorded in a database.



Illustration 7: 2011 Rock and Silt Sample Map showing AU (PPB)

### 10.2 Silt Sampling

Silt samples were taken based on proximity to promising lithology, mineralogy, and structure. Each sample was hand washed or panned in the stream to capture the fines. Sample locations were marked on the GPS and labeled with the lab tag number used. The sample locations were marked with labeled flagging tape and the sampling location was photographed.

### 10.3 Soil Sampling

Soil sample locations were derived using Arc GIS 10.0 and sample locations (waypoints) were programed into hand-held GPSs. Sampler would navigate to points and take samples. The samplers took deep soil samples with dutch augers, targeting the "C" horizon. The location of the sample was recorded on the GPS and later imported to Arc GIS and Geosoft to be mapped. Detailed sample notes were taken at each site (depth, soil type, vegetation etc.). Acme water proof sample tags were used.



Illustration 8: 2011 Soil Geochemical Sample Map showing Au (PPB)

The sample location was flagged with the corresponding acme tag number written on the flagging tape. Sample locations (coordinates) were downloaded into the computer and stored in a database with all corresponding notes. Soil lines were added or altered periodically as the

property was explored.

### 10.4 Soil Permafrost Sampling

The Kryotek Arctic Innovation Inc. samples were taken using a hand held rotary hammer drill and stainless steel diamond tipped augurs. Samples were targeted to be taken at 85 cm depth, within the permafrost, resulting in unweathered samples. Samples were then handed to Druid Exploration Inc. for geochemical analysis.



Illustration 9: 2011 Permafrost Soil Geochemical Map showing Au (PPB)

# 11. Summary

Both the ground geophysical and geochemistry data sets that were acquired in the 2011 season were acquired to industry standards, and provide an excellent interpretive data-set.

Respectfully submitted,

Ronald F. Sheldrake, B.Sc. (Geophysics) EarthWorks Geophysical Consultants

BRC&J Project – June 2011

#### **Bibliography**

1)Precision Geosurveys Inc., "Airborne Geophysical Survey Report, BRC, for Cloudbreak Resources Ltd., November 1, 2010

2)Vivian, G., White, D. & Robinson, R.J. (2011), "*Technical Report BRC Claims, Yukon Territory*". NI43-101 Technical Report for Petro-One Energy Corporation.

3) R.B.K. Shives et al, *"The detection of Potassic Alteration by Gamma Ray Spectrometry – Recognition Related to Mineralization,"* published in *Exploration 97.* 

4) Gordey, S.P., Ryan, J.J. & Cocking, R.B. (2004), "Geology, Stewart River Area (Parts 115 N/1,2,7,8 and 115 O/2-12), Yukon Territory."

5) Ryan, J.J., Gordey, S.P., Glombick, P., Piercey S.J. & Villeneuve, M.E. (2003), "Update on the Bedrock Mapping of the Yukon-Tanana Terrane, Southern Stewart River Map Area, Yukon Territory". Current Research 2003-A9. Natural Resources Canada, Geological Survey of Canada, Ottawa, ON.

6) Benz, Diana, Druid Eploration Inc., "Discussion on Geochemical Sampling and crew times on the BRC/J Property", October 2011,

CURREZ MINING ACT FORM 4 SECTION 56 APPLICATION FOR A CERTIFICATE OF WORK Version française
I, Daithi Mac Gearailt
ALL A CUT
of Box 1485 Dawson City, YT - Y0B 1G0
Phone
make oath and say that:
1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made haven.
<ol><li>I have done, or caused to be done, work, on the following mineral claim(s): (Here list claims on which work was actually done by number and name)</li></ol>
J4
BRC 9 to 14
BRC 25 to 29
BRC 31
BRC 33 to 35
situated at Mount Stewart Claim sheet No. 115o03
to represent the following mineral claims under the authority of Grouping Certificate No, (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).
Please renew attached schooldie.
<ol> <li>The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56).</li> </ol>
3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56). A geophysical, soil and rock sampling program was conducted on behalf of Goldstrike Resources Ltd on The BRC
3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56). A geophysical, soil and rock sampling program was conducted on behalf of Goldstrike Resources Ltd on The BRC property between the 3rd and the 10th of June 2011 by Druid Exploration Inc.
The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 56).      A geophysical, soil and rock sampling program was conducted on behalf of Goldstrike Resources Ltd on The BRC      property between the 3rd and the 10th of June 2011 by Druid Exploration Inc.

# APPENDIX 1 – APPLICATION FOR A CERTIFICATE OF WORK

Yukon		Office Use Only
Energy, Mines and Resources		
Dawson	MINING DISTRICT	RECEIVED JAN 27 2012
I, (We) the undersigned owners (Additional sheets or an appendix may	s or agent(s) of the owners of following mineral cla be used) (Claim names and grant numbers to be listed in sec	ims. 10-1 Mining Heddholer 10-2 Mining Hedd
GRANT NUMBER	CLAIM NAME	MAP SHEET
	See attached list.	
Give notice of intention to group	the said claims for the performance of work and the	
section 55 of the Quartz Mining	Act for a certificate in form 6.	o nereby apply under the provisions of
(We) hereby certify that the abo	ove claims are adjoining as shown on the attached	sketch
Pated at Dauson		
his 77 day of	2017	- M- When here .

APPENDIX 2 – APPLICATION TO GROUP MINERAL CLAIMS



APPENDIX 3 - SAMPLE LOCATION MAP

Renewal + Grouping Claims. AM A PM 7 **Claim Status Report** ary 2012 RECEIVED Claim Name and Nbr. Grant No. Expiry Date Registered Owner % Owne JAN 2# 2012 R BRC 7 - 14 YC94407 - YC94414 2015/06/04 Cloudbreak Resources Ltd 4 × 8 = 32 100.00 115003 YC94407 - YC94414 2015/06/04 Cloudbreak Resources Ltd 4 × 16= 64 100.00 × R BRC 21 - 36 1850% BRC 37 - 38 YC94437 - YC94438 2012/06/04 Petro One Energy Corp 5 \* 2 = 1 0 100.00 YD129235 - YD129239 2012/05/25 Terry King 5+5=25 100.00 PJ1-5 131yrs Criteria(s) used for search: CLAIM DISTRICT: 1000002 CLAIM NAME: BRC CLAIM STATUS: ACTIVE & PENDING OWNER(S): KING TERRY, PETRO ONE ENERGY CORP REGULATION TYPE: QUARTZ Total claims selected : 31 Left column indicator legend: Right column indicator legend: R - Indicates the claim is on one or more pending renewal(s). L - Indicates the Quartz Lease. F - Indicates Full Quartz fraction (25+ acres) D - Indicates Placer Discovery P - Indicates the claim is pending. C - Indicates Placer Codiscovery P - Indicates Partial Quartz fraction (<25 acres) B - Indicates Placer Fraction Page 1 of 1

### Appendix 4 – Renewal and Grouping of Claims/Claim Status Report

Appendix 5 – Grouping Map



	11-20	77	DAVISON	and the second	Steel and State
ITEM	C	DST/UNIT	UNIT AMOUNT	TOT	(AL
HELICOPTER + Fuel	\$	1,950.00	8.5	\$	16,575.00
ROCK ASSAY	\$	28.88	29	\$	837.52
SOIL ASSAY	\$	18.00	103	\$	1,854.00
KRYOTEC SOIL ASSAY	\$	18.00	126	\$	2,268.00
KRYOTEC SURVEY	\$	10,578.75	1	\$	10,578.75
GEOPHYSICS (EarthWorks Geophysical Consultants - Ron Sheldrake)	\$	500.00	7	\$	3,500.00
3 x Soil Samplers = 300 /day each	\$	900.00	2	\$	1,800.00
Prospector 1 x 350 / day	\$	350.00	8	\$	2,800.00
Hotel and Accomodation /\$ 129.00 / Night / Man	\$	258.00	14	\$	3,612.00
Report preperation	\$	3,000.00	1	\$	3,000.00
			TOTAL	Ś	46.825.27



APPENDIX 6 -

**EXPLORATION COSTS** 

27-Jen-2012 Jallie Mar bearailh

Earthworks Geophysical Consultants, White Rock, B.C., Canada Tel: (604) 785 9661 E-mail: <u>earthworks@telus.net</u>

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## Appendix 7 – Statement of Qualifications, R. Sheldrake

#### I, Ronald F. Sheldrake, do certify that:

- 1. I received my B.Sc. in Geophysics from the University of British Columbia in 1974.
- 2. I have practised the profession of exploration geophysics in excess of thirty years.
- 3. I have held senior management positions with World Geoscience Inc.
- 4. I was past owner of Apex Airborne Surveys Ltd.
- 5. This report is written solely by Ronald F. Sheldrake, except where other credit is given.

6. I have no interest in, either direct, indirect or contingent in Druid Explorations Inc. or Goldstrike Resources Ltd. or any of their associated companies.

February 5, 2012

Ronald F. Sheldrake EarthWorks Geophysical Consultants White Rock, B.C.



















# Geochemical Aqua Regia Digestion

#### Groups 1D, 1DX ICP-ES & ICP-MS

You can choose economically priced ICP-ES (Group 1D) or ICP-MS (Group 1DX) analysis to complement your exploration program.

Sample splits of 0.5g are leached in hot (95°C) Aqua Regia. Select a larger split size for more representative Au analysis. Refractory and graphitic samples can limit Au solubility.

Sample minimum 1g pulp.

Group 1D01	Cdn
34 elements	\$9.40
Group 1D03	Cdn
Include Uranium	+\$0.50

Code	Group 1DX	Cdn			
1DX1	36 elements 0.5g	\$15.75			
1DX2	36 elements 15g	\$19.95			
1DX3	36 elements 30g	\$23.60			
Include U by request					

0.1 ppm 100 ppm Ag\* 0.3 ppm Al\* 0.01 % 0.01 % 10 % As 2 ppm 0.5 ppm 10000 ppm Au\* 100 ppm 2 ppm 0.5 ppb **B\***† 20 ppm 2000 ppm 20 ppm Ba\* 1 ppm 1 ppm 10000 ppm Bi 3 ppm 0.1 ppm 2000 ppm Ca\* 0.01 % 0.01 % 40 % Cd 0.5 ppm 0.1 ppm 2000 ppm Co 0.1 ppm 2000 ppm 1 ppm Cr\* 1 ppm 1 ppm 10000 ppm 10000 ppm Cu 1 ppm 0.1 ppm Fe\* 0.01 % 0.01 % 40 % Ga\* 1000 ppm 5 ppm 1 ppm 0.01 ppm 50 ppm Hg 1 ppm К\* 0.01 % 0.01 % 10 % La\* 10000 ppm 1 ppm 1 ppm 0.01 % 0.01 % 30 % Mg Mn\* 2 ppm 1 ppm 10000 ppm Мо 1 ppm 0.1 ppm 2000 ppm Na\* 0.01 % 0.001 % 5 % Ni 1 ppm 0.1 ppm 10000 ppm P\* 0.001 % 0.001 % 5 % Pb 10000 ppm 3 ppm 0.1 ppm S\* 0.05 % 0.05 % 10 % Sb\* 3 ppm 0.1 ppm 2000 ppm 100 ppm 5 ppm Sc 0.1 ppm Se 0.5 ppm 100 ppm \_ Sr\* 1 ppm 1 ppm 10000 ppm Те \_ 0.2 ppm 1000 ppm Th\* 0.1 ppm 2000 ppm 2 ppm Ti\* 0.001 % 0.001 % 5 % ТΙ 5 ppm 0.1 ppm 1000 ppm V\* 1 ppm 2 ppm 10000 ppm W\* 2 ppm 0.1 ppm 100 ppm Zn 1 ppm 10000 ppm 1 ppm

Group 1DX

Detection

Upper

Limit

\*Solubility of some elements will be limited by mineral species present.

†Detection limit = 1 ppm for 15g / 30g analysis.

Group 1D

Detection



<u>م کام کام</u>

BRC & J Project - Geology

BRC and J claims