2006 GEOLOGICAL and GEOPHYSICAL ASSESSMENT REPORT ON THE HARLAN PROPERTY

Comprising the Following Claims:

Cam 1-8, Harlan 3-7, 9-23, 39-50, 55-69, 71, 263, 265-274, 276-283

Located in the Dahl Mountain Area
Mayo Mining District
Yukon Territory, Canada
N.T.S. 105O/04, 05

Latitude: 63° 14' North
Longitude: 131° 40' West

Prepared for

650399 BC Ltd
Dba: Alexco Resource Corp.
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Dates work performed: August 22-31, 2006
Date of Report: January 25, 2007

EXECUTIVE SUMMARY

The Harlan property is located in east-central Yukon, approximately 150 kilometres north-northeast of Ross River and 60 kilometres northwest of the North Canol Road (Yukon Highway #6). The Harlan Property consists of 75 contiguous quartz mining claims within NTS Sheets 105 O/4 and O/5 in the Mayo Mining District. The claims are owned by 650399 B.C. Ltd., a wholly owned subsidiary of Alexco Resource Corp (Alexco) and are all in good standing.

The Harlan property is located within the Paleozoic Selwyn Basin sedimentary package extending east-southeast from north-west of Dawson City to the Yukon-Northwest Territory border, north of the major northwest-southeast trending Tintina Fault. The package consists of shallow shelf to off-shelf marine clastic and chemical sediments and basinal clastic sediments, intruded by the Mid-Cretaceous Tombstone-Tungsten Suites which control much of the gold mineralization within the package. Multiple large scale east-southeast oriented thrust faults dip to the southwest and may be offset by later northeast-southwest high angle faults.

On the Harlan property, large thrust faulted units of Road River Group chert and graphitic argillite overlie broad units of Earn Group chert pebble conglomerate and minor siltstone. Multiple narrow, variably argillically altered and mineralized quartz monzonite to monzonitic dykes intrude the package.

In the Vortex Zone, dyke emplacement caused localized and pervasive silicification, clay alteration and mineralization within the Earn Group sediments, with highly variable alteration patterns, multiple veining events and brecciation. Soil sampling and rock sampling show consistent anomalous gold, arsenic, silver and antimony within the Earn Group sediments, with increasing gold content associated with more intense silicification and clay alteration and the presence of disseminated and veined pyrite, arsenopyrite and scorodite.

The highest gold grades (3.81, 4.25, 2.95 and 3.34 parts per million) returned from 2006 sampling were associated with a highly silicified and clay altered northwest-trending shear zone cutting through Earn Group chert pebble conglomerate and minor siltstone, with multiple intrusive sills nearby. Mineralization consisted of massive sulphide – silica aggregates at dilational areas, coarse crystalline quartz-scorodite veining and disseminated pyrite-arsenopyrite with extensive scorodite staining. A second silicified, clay altered and slickenlined northeast trending fault structure within chert-pebble conglomerate and siltstone returned a 1.79 parts per million gold sample.

The Vortex Breccia, in the southern Vortex Zone, contained heterolithic breccia outcrops. Samples overall returned low anomalous gold mineralization (0.02-0.08 parts per million) except for one sample with disseminated pyrite in the matrix that returned 1.0 parts per million gold and 1350 parts per million arsenic. Soil samples taken through the breccia zone show elevated gold values up to 1.69 parts per million gold.

Rock sampling of intrusive phases showed no significant mineralization although a soil sample taken from intrusive material returned 0.96 parts per million gold and >10,000 parts per million arsenic. No significant mineralization was found in the Road River Group samples.

The geophysical survey showed a strong magnetic high in an area of Steel Formation (a member of the Road River Group) shale talus, which differs significantly from the surrounding Steel Formation rocks that form a magnetic low. The magnetic high could be related to the thrust fault contact between the Road River Group and Earn Group sediments, as the trace of the fault is not well constrained in the vegetated lower elevations. The intrusive sills and the variably silicified and clay altered Earn Group sediments form a moderately magnetic mass, with the high grade samples occurring along a shear structure at the edge of a break from moderate to low magnetic susceptibility. The intrusive sills could not be distinguished from the sediments in the magnetic data.

Field work completed in 2006 confirmed the presence of widespread anomalous to well mineralized, pervasively altered Earn Group sediments over at least an 800 x 600 metre area. Altered Earn Group sediments also extend westward beneath the thrust faulted Road River Group sediments, and the northern,

eastern and southern extents are not well constrained. The Earn Group sediments remain the most prospective target in the Vortex Zone. The volumetrically minor intrusive phases show sporadic mineralization despite the extensive alteration so are not considered a viable target in this area. The historically inferred intrusive stock at the south end of the Vortex Zone was not visited and could not be confirmed.

A two phase exploration program is proposed for future work at the Harlan property.

Phase I would entail detailed, systematic mapping and soil sampling. Mapping would concentrate on finding outcrop within the extensive talus to refine the lithology distributions, particularly the dyke orientations, and to determine the extents of the breccia body. The mineralized shear zone and fault found in 2006 highlight the probability of high grade mineralized structures within a lower grade disseminated ore body, so collection of structural information is a priority. The trace and extent of the mineralized shear zone should be refined to aid in drillhole targeting. The trace of the thrust fault on the western edge of the Vortex Zone could be better constrained to try to determine its relationship to the magnetic high seen in the 2006 survey.

A soil sample grid should be conducted over the Vortex Zone at 100 metre spacing with samples taken every 25 metres.

An airborne magnetic and radiometric survey should be flown over the entire property to help define intrusive bodies and major structures. The Tombstone Suite intrusives are generally highlighted in potassium radiometric maps.

Phase II would consist of a 2000 metre, 10 hole reconnaissance drill program with hole locations defined by results in Phase One. Two five hole fences oriented north-south could cover all the main targets identified to date: the mineralized shear zone, disseminated sulphide mineralization, the Vortex breccia body and the magnetic high.

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1.0 INTRODUCTION

This report presents the results of the 2006 field program conducted on the Harlan property. The exploration program consisted of geological mapping and sampling, ground magnetic surveying and soil sampling. Work was conducted over a ten day period from August 22-31, 2006. Planning, logistics and field work were conducted by NovaGold Resource Inc. exploration personnel on behalf of 650399 BC Ltd. Aurora Geosciences Ltd of Whitehorse was contracted for geophysical surveying and provision of a fly camp. Trans North Helicopters provided all transportation for the fly camp, and mob/demob was conducted from Twin Creeks airstrip on the North Canol Road.

The Harlan Property consists of 75 contiguous quartz mining claims (Cam 1-8, Harlan 3-7, 9-23, 39-50, 55-69, 71, 263, 265-274, 276-283 Claims) within NTS Sheets 105 O/4 and O/5 in the Mayo Mining District (Figures 1 and 2). The claims are currently registered in the name of 650399 B.C. Inc., a wholly owned subsidiary of Alexco and are all in good standing.

A summary of expenditures for the program is presented in Appendix 1.

The reference datum used is UTM NAD27 Zone 9, unless otherwise noted.

The report was prepared in accordance with the guidelines of the Yukon Quartz Mining Act and is based on field observations made by the author and geochemical data obtained from samples submitted to an accredited laboratory. Qualified Person Mike Stammers of NovaGold Resources Inc conducted a one day property visit during the field program. Background information is based on data and geological information gathered from public sources, assessment files and internal company reports and memorandum.

2.0 PROJECT DESCRIPTION AND LOCATION

The Harlan property is located in the Mayo district, Yukon, approximately 150 kilometres north-northeast of Ross River and 60 kilometres northwest of the North Canol Road (Yukon Highway #6). The property is centered at latitude 63^{o} 15’ and longitude 131^{o} 41’ and is split between NTS Map Sheets 105 O/4 and O/5. (Figure 1).

Property Holdings

The Harlan Property consists of 75 contiguous quartz mining claims (Cam 1-8, Harlan 3-7, 9-23, 39-50, 55-69, 71, 263, 265-274, 276-283 Claims) within NTS Sheets 105 O/3 and O4 in the Mayo Mining District (Figure 2). The claims are currently registered in the name of 650399 B.C. Ltd., a wholly owned subsidiary of Alexco Resource Corp and are all in good standing. Table 1 provides listings of the property holdings for the claim block.

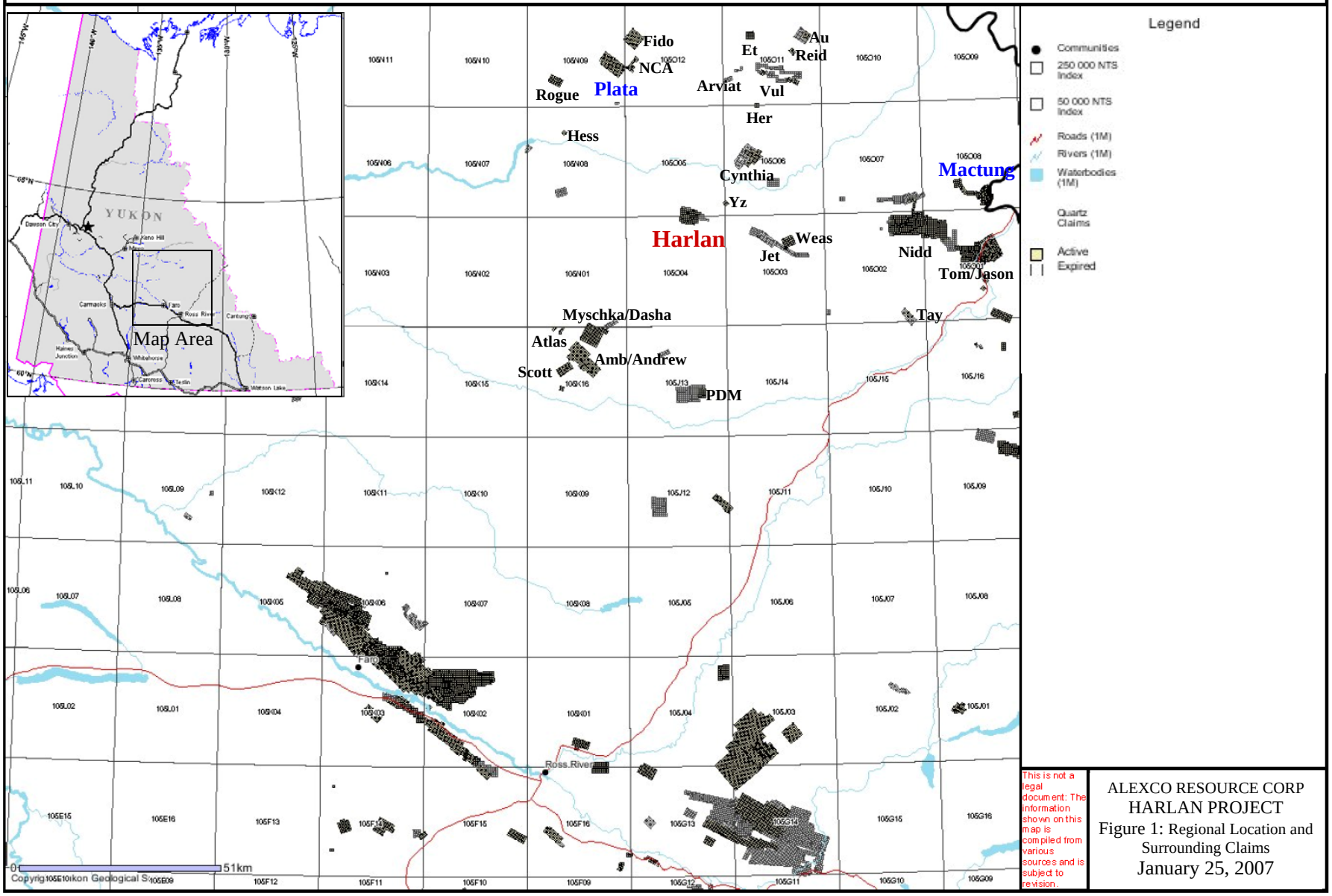
Property Agreement

On February 1, 2005, Alexco Resource Corporation acquired all the issued shares of the company 650399 BC Ltd., (Spectrumsub-a subsidiary of NovaGold) from NovaGold Canada Inc. Through this agreement, Alexco acquired the retained assets of Spectrumsub in British Columbia and the Yukon, including the Harlan property, subject to underlying agreements.

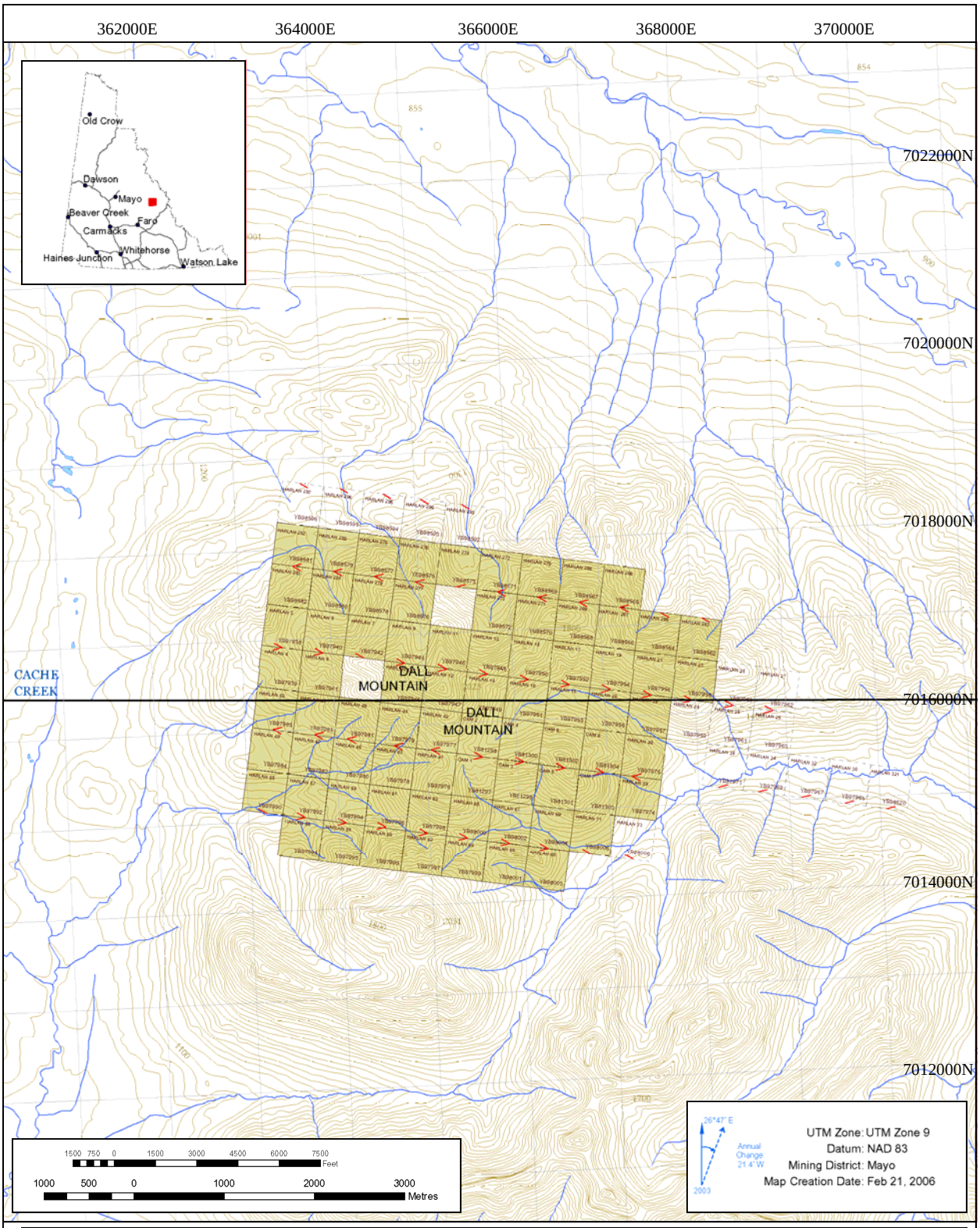
Land Use and Environmental

Activities on the property have been conducted under a current class III Quartz Mining Land Use Permit, approval number LQ00014 with an expiry date of 30 September 2008.

Yukon Geological Survey - Regional Location and Claims



ALEXCO RESOURCE CORP
HARLAN PROJECT
Figure 1: Regional Location and Surrounding Claims
January 25, 2007



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Harlan Property, Mayo Mining District, YT
Figure 2: Claims Holdings
January 25, 2007

Table 1: Status of Claims Listing

Grant Number	Claim Name	Claim Number	Claim Expiry Date *		Grant Number	Claim Name	Claim Number	Claim Expiry Date *
YB81297	Cam	1	10/17/2011		YB97984	Harlan	49	10/17/2011
YB81298	Cam	2	10/17/2011		YB97985	Harlan	50	10/17/2011
YB81299	Cam	3	10/17/2011		YB97990	Harlan	55	10/17/2011
YB81300	Cam	4	10/17/2011		YB97991	Harlan	56	10/17/2011
YB81301	Cam	5	10/17/2011		YB97992	Harlan	57	10/17/2011
YB81302	Cam	6	10/17/2011		YB97993	Harlan	58	10/17/2011
YB81303	Cam	7	10/17/2011		YB97994	Harlan	59	10/17/2011
YB81304	Cam	8	10/17/2011		YB97995	Harlan	60	10/17/2011
YB97938	Harlan	3	10/17/2011		YB97996	Harlan	61	10/17/2011
YB97939	Harlan	4	10/17/2011		YB97997	Harlan	62	10/17/2011
YB97940	Harlan	5	10/17/2011		YB97998	Harlan	63	10/17/2011
YB97941	Harlan	6	10/17/2011		YB97999	Harlan	64	10/17/2011
YB97942	Harlan	7	10/17/2011		YB98000	Harlan	65	10/17/2011
YB97944	Harlan	9	10/17/2011		YB98001	Harlan	66	10/17/2011
YB97945	Harlan	10	10/17/2011		YB98002	Harlan	67	10/17/2011
YB97946	Harlan	11	10/17/2011		YB98003	Harlan	68	10/17/2011
YB97947	Harlan	12	10/17/2011		YB98004	Harlan	69	10/17/2011
YB97948	Harlan	13	10/17/2011		YB98006	Harlan	71	10/17/2011
YB97949	Harlan	14	10/17/2011		YB98562	Harlan	263	10/17/2011
YB97950	Harlan	15	10/17/2011		YB98564	Harlan	265	10/17/2011
YB97951	Harlan	16	10/17/2011		YB98565	Harlan	266	10/17/2011
YB97952	Harlan	17	9/2/2011		YB98566	Harlan	267	10/17/2011
YB97953	Harlan	18	10/17/2011		YB98567	Harlan	268	10/17/2011
YB97954	Harlan	19	10/17/2011		YB98568	Harlan	269	10/17/2011
YB97955	Harlan	20	10/17/2011		YB98569	Harlan	270	10/17/2011
YB97956	Harlan	21	10/17/2011		YB98570	Harlan	271	10/17/2011
YB97957	Harlan	22	10/17/2011		YB98571	Harlan	272	10/17/2011
YB97958	Harlan	23	10/17/2011		YB98572	Harlan	273	10/17/2011
YB97974	Harlan	39	10/17/2011		YB98573	Harlan	274	10/17/2011
YB97975	Harlan	40	10/17/2011		YB98575	Harlan	276	10/17/2011
YB97976	Harlan	41	10/17/2011		YB98576	Harlan	277	10/17/2011
YB97977	Harlan	42	10/17/2011		YB98577	Harlan	278	10/17/2011
YB97978	Harlan	43	10/17/2011		YB98578	Harlan	279	10/17/2011
YB97979	Harlan	44	10/17/2011		YB98579	Harlan	280	10/17/2011
YB97980	Harlan	45	10/17/2011		YB98580	Harlan	281	10/17/2011
YB97981	Harlan	46	10/17/2011		YB98581	Harlan	282	10/17/2011
YB97982	Harlan	47	10/17/2011		YB98582	Harlan	283	10/17/2011
YB97983	Harlan	48	10/17/2011					

*Claim expiry is after acceptance of value of assessment work from this program

3.0 ACCESSIBILITY, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Harlan property is accessed by helicopter from Ross River or staging points along the North Canol Road. The Twin Creeks Airstrip was used as a mobilization point for the 2006 field camp. A winter road that extends to the Plata property to the northwest passes within ten kilometres of the north property boundary.

Ross River and Faro are the nearest full service communities with an available workforce and limited contracting facilities.

The property covers fairly rugged terrain, with elevations to ranging from 4,200 feet to 6,600 feet at the summit of Dall Mountain. Typical northern boreal spruce forest covers lower elevations, grading to subalpine fir forests towards the tree line. Higher elevations are covered by typical tundra vegetation, with sizable barren zones.

4.0 HISTORY

4.1 Regional Exploration History and Competitor Activity

The land surrounding the Harlan property continues to see limited exploration (Figure 1). Alliance Pacific Gold Ltd holds numerous claims in the area (AU, HER, ET, FIDO, WEAS) including the nearest claim block to Harlan (YZ) located 7 kilometres to the east, mostly overlying Tombstone Suite stocks and associated gold mineralization and gold in silt anomalies. The JET Claims (located roughly thirty kilometres north-west, held by the Archer-Cathro Group) overlying barite occurrences within Earn Group sediments have been largely dropped. Ron Berdahl staked the DASHA and MYSCHKA claims 40 kilometres to the south-west in 2002. The PLATA claims (a lead-zinc-silver prospect) and INCA claims, located roughly eighty kilometres to the north-west, continue to be held by Western Energy Services Corp. Archer Cathro picked up the ROGUE claims in 2006, close to the PLATA property. The TOM and JASON lead-zinc-silver Sedex style deposits, located roughly forty kilometres to the east and just south of the Mactung deposit, are held by Hudson Bay Exploration & Development Company Ltd and MacPass Resources Ltd, respectively.

4.2 Property Exploration History

No evidence of significant past exploration activity exists across the present Harlan property.
In 1997, Viceroy Exploration (Canada) Inc. conducted a regional geochemical sampling program focused on identifying new potential bulk tonnage intrusive related and sediment hosted gold systems. The Harlan property was first identified as a target based on coincident gold-arsenic-mercury-antimony anomalies from RGS silt sampling and favorable stratigraphic and structural settings. The Cam 1-8 and Harlan 1-331 claims were staked in 1997 over kilometric-scale anomalous to high grade gold values from soils and rock chip sampling in Earn Group and Road River Group sediments intruded by Cretaceous quartz-monzonite dykes. Additional reconnaissance soil and rock sampling conducted in 1998 further defined anomalous areas.

NovaGold Resources Inc. acquired 100% interest in the property in 1999 and completed sampling and prospecting work focused on highly prospective areas. Further geological prospecting and sampling work was conducted in 2000 in conjunction with property visits by Teck Exploration Ltd and Homestake Canada.

5.0 2006 EXPLORATION PROGRAM

The 2006 field program consisted of a ten day, three person fly camp to conduct mapping, rock and soil sampling and a ground geophysical survey.

5.1 Rock and Soil Sampling Methodology, Preparation and Analysis

All rock and soil sample characteristics were recorded in the field and entered into standardized spreadsheets (Appendix 2 and 3). Criteria for each sample included: UTM location, sample type, width of chip sampling, color, lithology, alteration, mineralization and a brief description. In addition, texture and organic content, and horizon sampled were recorded for soil samples. Rock grab and chip samples were taken almost exclusively from outcrops amid the extensive talus. Sample locations are shown in Figure 4.

One soil line was planned passing through areas with anomalous to high historical assay results, with 25 samples taken at 40 metre spacing.

Samples were sent to ALS Chemex Labs in North Vancouver, B.C. Soil and rock samples were analyzed by gold fire assay using a 30gram sample and by ICP for a 33-element excluding mercury package using "near total" four acid digestion. Standards were inserted into each of the rock and soil sample batches for assay quality control. Laboratory certificates are found in Appendix 4.

5.2 Geophysical Surveying Methodology

The geophysical equipment, procedures and analysis methods used for the 2006 total magnetic field program is outlined in the Aurora Geosciences Ltd report in Appendix 6. A total of 7.32 line kilometres were surveyed over a one square kilometre area.

6.0 GEOLOGICAL SETTING

6.1 Regional Geology

Adapted from Schulze, 1999
The Harlan property is located within the Selwyn Basin which consists of a broad package of Paleozoic sediments extending east-southeast from north-west of Dawson City to the Yukon-Northwest Territory border north of the major northwest-southeast trending Tintina Fault. This stratigraphy consists of shallow shelf to off-shelf marine clastic and chemical sediments, as well as basinal clastic sediments derived from the Ancient North American Platform to the north-east with ages of deposition ranging from Late Precambrian to Permian. At least two major episodes of rifting have occurred: the first during deposition of the Late Precambrian Hyland Group sediments, and the second during deposition of the Devono-Mississippian Earn Group sediments (Table 2, Figure 3). These major rift zones often host poorly sorted coarse clastic sediments, such as debris flows or turbidite horizons. Several episodes of continental uplift have led to periods of increased erosion and resulting continental margin or miogeosynclinal deposition, resulting in the creation of sequences of comparatively high energy, shallow water sediments, often coarsely grained and variably calcareous. These are separated by strata formed under deeper, quieter water conditions, resulting in formation of fine clastic sediments and chert. The Mid-Cretaceous Tombstone-Tungsten Plutonic Suites (95-89Ma) consisting primarily of monzonitic to quartz-monzonitic intrusive structures, have been emplaced within the Selwyn Basin. Members of these suites occur along an east-southeast trending belt extending for over 500 kilometres from north-west of Dawson City to the Yukon-Northwest Territory border. Tombstone Suite intrusives are believed to control much of the economic gold mineralization within the Selwyn Basin.

Extensive thrust faulting along the entire extent of the Selwyn Basin began during Late Jurassic time, with most thrust faults oriented roughly east-southeast and dipping to the south-west, subparallel to the overall east-southeast trend of stratigraphy. Several major regional thrust faults were formed including the Dawson Thrust, Tombstone Thrust, and Robert Service Thrust. This regional fabric has been overprinted by a slightly less pronounced northeast-southwest fabric, marked by high angle orthogonal faults that are strongly pronounced within the Harlan property area.

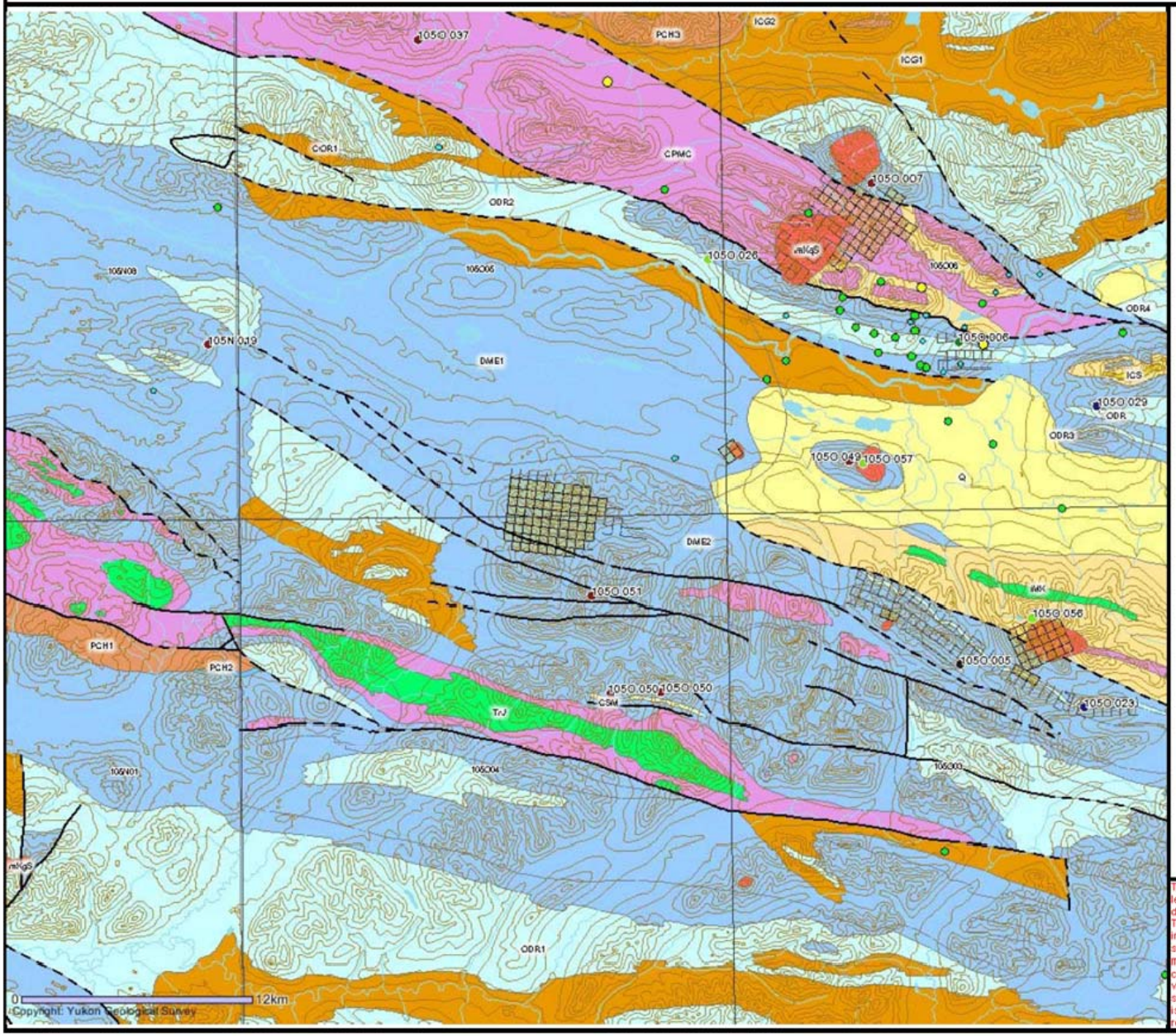
The Harlan property occurs within a broad deformation belt unofficially called the “Gold River Fold Belt” extending along the south side of the Hess River. Several west-northwest trending thrust faults, re-activated as strike-slip faults associated with fairly intense folding, extend across this belt. Tombstone Suite intrusives occur within the belt, particularly along the north and south flanks, and are common in the Harlan property area.

6.2 Property Geology

Adapted from Johnson, 2001
A thick sequence of Earn Group locally calcareous chert pebble conglomerate, sandstone and greywacke underlie the Harlan Property, with lesser shale to siltstone members. Several roughly southeast trending units of Road River Group shale to siltstone, and graphitic argillite units extend across the property and appear to be thrust over locally intensely altered Earn Group formation rocks. In the central part of the property called the Vortex Zone, these Earn Group coarse clastic sedimentary rocks have undergone strong argillic and advanced argillic alteration and display multi-episodic fine quartz vein and stockwork development. Southeast trending, moderately south dipping thrust faults have been mapped within Earn and Road River Group stratigraphy in the area.

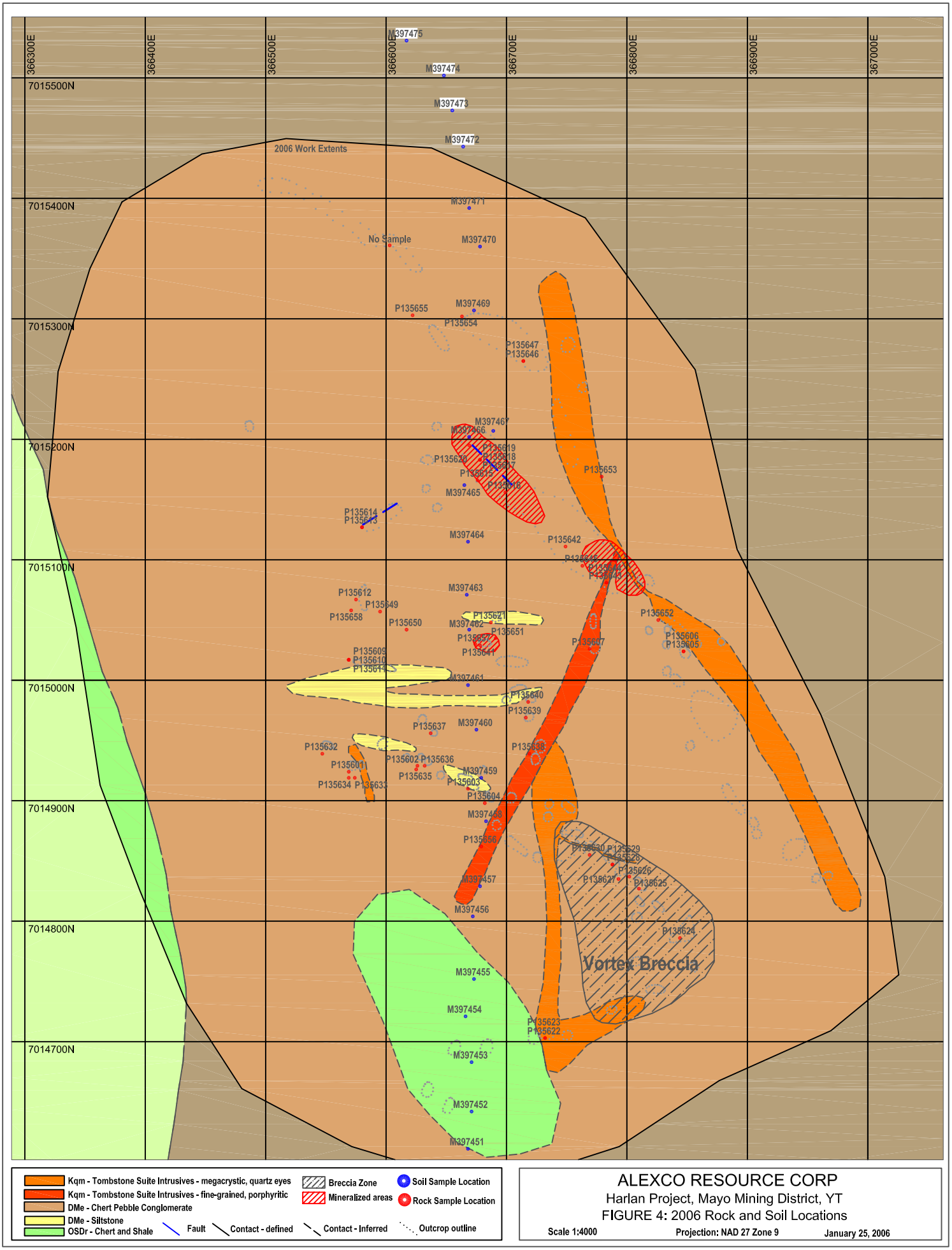
A suite of altered late-stage Tombstone Suite quartz-feldspar porphyritic dikes extends across the central property area. These extend primarily east-southeast, but also map other lineation orientations, largely in the Vortex Zone area. These dikes have intruded the graphitic argillite unit within the “West Porphyry Zone” up to three kilometers west of the central Vortex area. Dikes display variable intensities of argillic and phyllic alteration and localized silicification. An area of abundant feldspar porphyritic rubblecrop in a wooded area south of the Vortex Zone indicates the presence of a monzonitic stock.

Yukon Geological Survey - Bedrock Geology



This is not a legal document. The information shown on this map is compiled from various sources and is subject to revision.

ALEXCO RESOURCE CORP
HARLAN PROJECT
Figure 3: Regional Geology and Claims
January 25, 2007



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Harlan Project, Mayo Mining District, YT

FIGURE 4: 2006 Rock and Soil Locations

Scale 1:4000 Projection: NAD 27 Zone 9 January 25, 2006

Table 2: List of Geological Formations

Age	Group	Formation (Lithology)	Geology Map Designation	Rock Code	Description
Mid-Cretaceous	Tombstone - Tungsten Plutonic Suite	Monzonite, Quartz Monzonite	Kqm, Kg	QM, QFP, QPM	Felsic to intermediate quartz monzonitic, monzonitic, to quartz dioritic intrusives. The name "Selwyn Suite" often applies to eastern portion of the suite. Anvil Intrusives and coeval South Fork Volcanics now considered part of Tombstone Suite; varying phases due to different fractionation states rather than a separate major intrusive event. Quartz-monzonite dikes within Harlan are argillically altered and limonitic.
Devonian - Mississippian	Earn Group	Prevost Formation	DMp (Dme)	CH, ARG ARGG	Brown weathering shale, grey to grey-brown weathering chert-pebble conglomerate, dark grey-black chert-quartz sandstone.
Devonian - Mississippian	Earn Group	Prevost Formation	Dme	CPC	Chert Pebble Conglomerate: pebble to cobble sized clasts in Silicified or calcareous matrix, local breccia fragments; lesser coarse to fine sandstone members. Host for major sediment-hosted mineralization within Harlan Property.
Devonian	Earn Group	Portrait Lake Formation	Dp (Dme)	CH, ARG, ARGG	Argillite, chert, minor sandstone and conglomerate. Black siliceous argillite form lower member. May contain minor greywacke, siltstone and baritic horizons.
Ordovician-Early Devonian	Road River Group	Steel Formation	(OSDr)	SS	Weakly to moderately calcareous orange weathering mudstone to siltstone, often bioturbated reflecting oxygenated bottom water conditions. Baritic horizons often form distinctive upper members near top of formation.
Ordovician-Early Devonian	Road River Group	Duo Lake Formation	Osd (OSDr)	CH, SLT, ARG	Black argillite and massive to thick bedded chert, weathers bluish white, local tan limonitic weathering.

After Roots, C.F. Abbott, J.G. Cecile, M.P. Gordey, S.P. 1995

7.0 2006 EXPLORATION RESULTS

Previous work on the Harlan property had identified two areas of interest, the Vortex Zone and the Western Porphyry Zone, within a ten square kilometre area of anomalous surface geochemistry. Descriptions of the Western Porphyry zone may be found in earlier assessment reports.

Field work in 2006 concentrated on the Vortex Zone, a previously identified area of strongly altered and mineralized Earn Group sediments in the south-eastern portion on the property. Field work consisted of mapping and rock sampling, soil sampling and a geophysical survey. The area mapped contains extensive coarse talus slopes with little certain outcrop. Lower elevations are covered with buckbrush and balsam fir with very little outcrop, and likely have extensive talus cover. An effort was made to only to take samples from confirmed outcrop or highly probable in situ rubblecrop. Soil sampling on the talus slopes is likely collecting talus fines samples rather than well developed soils.

7.1 Mapping and Rock Sampling

Mapping work confirmed the presence of variably altered Earn Group sediments, consisting largely of chert pebble conglomerate with minor siltstone and greywacke, covering most of the upper portions of the mountainside in the Vortex Zone (Figure 5). Well fractured and oxidized Road River Group interbedded shales and siltstones are thrust faulted over the Earn Group sediments to the south of the Vortex Zone and several phases of Tombstone intrusive phases intrude both sedimentary packages.

Intrusive Phases

Two texturally distinct phases of intrusive were found: a sparse megacrystic unit (“megacrystic”) and a finer-grained porphyritic unit (“crowded”). The megacrystic unit consists of 2-5% 1-3cm white alkali feldspar phenocrysts (often zoned), 5% 2-5mm round quartz eyes and 5% biotite lathes in a fine-grained feldspar groundmass. The crowded unit consists of 10-20% 2-5mm white equant alkali feldspar phenocrysts and 10% 2-5mm biotite books in a medium grained light green feldspathic groundmass.

Both intrusive units are often well altered, though the megacrystic phase tend to form more massive sills with unaltered areas. Feldspar phenocrysts are often clay-carbonate-quartz altered and leached out, biotite is often altered to coarse sericite or is oxidized and obliterated, and the groundmass is generally clay altered, well oxidized and orange weathering. The strongly altered dikes tend to form recessive units.

Mineralization noted in the intrusive phases was limited to 1-2% disseminated cubic to blebby pyrite in the groundmass, occasionally rimming grains or replacing biotite. Unaltered intrusive phases did not appear to contain primary sulphides. Assay results for the eight intrusive samples did not have any significant gold mineralization (all < 0.05 parts per million gold) despite anomalous arsenic values in several samples (up to 1050 parts per million arsenic).

Earn Group sediments

The Earn Group sediments in the Vortex Zone show highly variable alteration patterns, multiple veining events and brecciation. They host the majority of mineralization found in the Vortex Zone.

The chert pebble conglomerate showed large variation in grain sizes but typically appeared as a well sorted conglomerate with sub-rounded to rounded chert pebbles to cobbles, along with occasional angular to sub-rounded, clay altered siltstone clasts. Small outcrops of thinly bedded siltstone were observed with conformable contacts with overlying chert pebble conglomerate. The siltstone units were often bleached and clay altered, and may form recessive units under the more resistant chert pebble conglomerate talus.

The chert pebble conglomerate unit is pervasively silicified, sometimes texturally enhancing but often texturally destructive where only vague outlines of pebbles survive. Large areas previously mapped as siltstone are likely highly altered chert pebble conglomerate. Strong pervasive clay alteration in the central Vortex Zone is characterized by an earthy bleached appearance with leached vugs (carbonate and clay

removed?) and ubiquitous leached disseminated cubic pyrite, along with broad zones of earthy yellow alteration (antimony/arsenic oxides?). Clay alteration extends into the surrounding broadly silicified sediments in discrete, often oxidized corridors. Several generations of quartz veining were observed: a milky white quartz vein set (highly irregular stringers, 0.5-2 centimetres wide, occasional swarms) is cut by a clear dark quartz vein set (1-5 millimetres wide, planar, often sheeted).

Assay results for chert pebble conglomerate and siltstone samples show anomalous gold mineralization throughout the Earn Group sediments, with increasing gold content associated with more intense silicification and clay alteration and the presence of disseminated and veined pyrite and aresenopyrite. A forest green color due to scorodite staining is common. Geochemical results show a strong correlation amongst gold and silver, arsenic, Cu, Fe, Pb and particularly sulphur and antimony.

The highest gold grades (3.81, 4.25, 2.95 and 3.34 parts per million) were associated with a highly silicified and clay altered northwest-trending shear zone cutting through chert pebble conglomerate and minor siltstone, with multiple intrusive sills nearby. The relationship between the fault structure and the intrusive sills is unclear. The fault zone was approximately five metres wise, with discrete anastomizing clay-rich fault structures mirrored by a strong jointing fabric and quartz veining in surrounding silicified sediments. The jointing fabric extended over 100 metres along strike, with the fault structure likely recessive for the most part. Mineralization consisted of massive sulphide – silica aggregates at dilational areas, coarse crystalline quartz-scorodite veining and disseminated pyrite-arsenopyrite with extensive scorodite staining.

A second silicified, clay altered and slickenlined northeast trending fault structure within chert pebble conglomerate and siltstone returned a 1.79 parts per million gold sample.

Mapping in the area previously referred to as the Vortex Breccia, in the southern Vortex Zone, confirmed the presence of heterolithic breccia outcrops. Breccia clasts consisted of angular chert pebble conglomerate, argillite, clay altered siltstone and a small number of highly altered clasts of unknown lithology (possible intrusive?). The breccia matrix was composed of rock fragments and silica, with possible minor carbonate and minor blebby pyrite. The argillite clasts contained minor disseminated cubic pyrite. Several chert pebble conglomerate clasts contained milky quartz veins terminating at the clast edge, indicating that breccia formation occurred after that phase of veining. The breccia body appears to grade out into fractured chert pebble conglomerate with intense quartz veining, though the boundary is often difficult to distinguish due to strong texturally destructive silicification.

Breccia outcrop samples overall returned low anomalous gold mineralization (0.02-0.08 parts per million) except for one sample with disseminated pyrite in the matrix that returned 1.0 parts per million gold and 1350 parts per million arsenic.

Road River Group sediments

The Steel Formation interbedded shales and siltstones (part of the Road River Group stratigraphy) outcrop along the western edge of the Vortex Zone as they are thrust over altered Earn Group sediments to the east. The rocks close to the thrust surface are highly fractured or friable, oxidized and often brecciated. No samples were taken from these outcrops.

Dark grey blocky argillite talus slopes inferred to be Steel Formation sediments also occur in the southern portion of the Vortex Zone, where they become oxidized, bleached and clay altered adjacent to intrusive sills. Two samples taken from argillite lithologies did not show any significant mineralization.

7.2 Soil Sampling

Soil sample results largely confirm values seen in previous work. Almost all of the soil samples showed anomalous gold, arsenic, silver and antimony values, except for the south end of the soil line where the underlying lithology is likely Road River Group sediments. In the Vortex Breccia, elevated gold values of 1.69, 0.54, 0.34 and 0.31 parts per million were seen. In the Earn Group sediments, gold values ranged from 0.09 to 0.99 parts per million, while two samples taken near the clay altered shear zone returning 0.73

and 0.79 parts per million gold. A sample taken in intrusive material contained 0.96 parts per million gold and >10,000 parts per million arsenic.

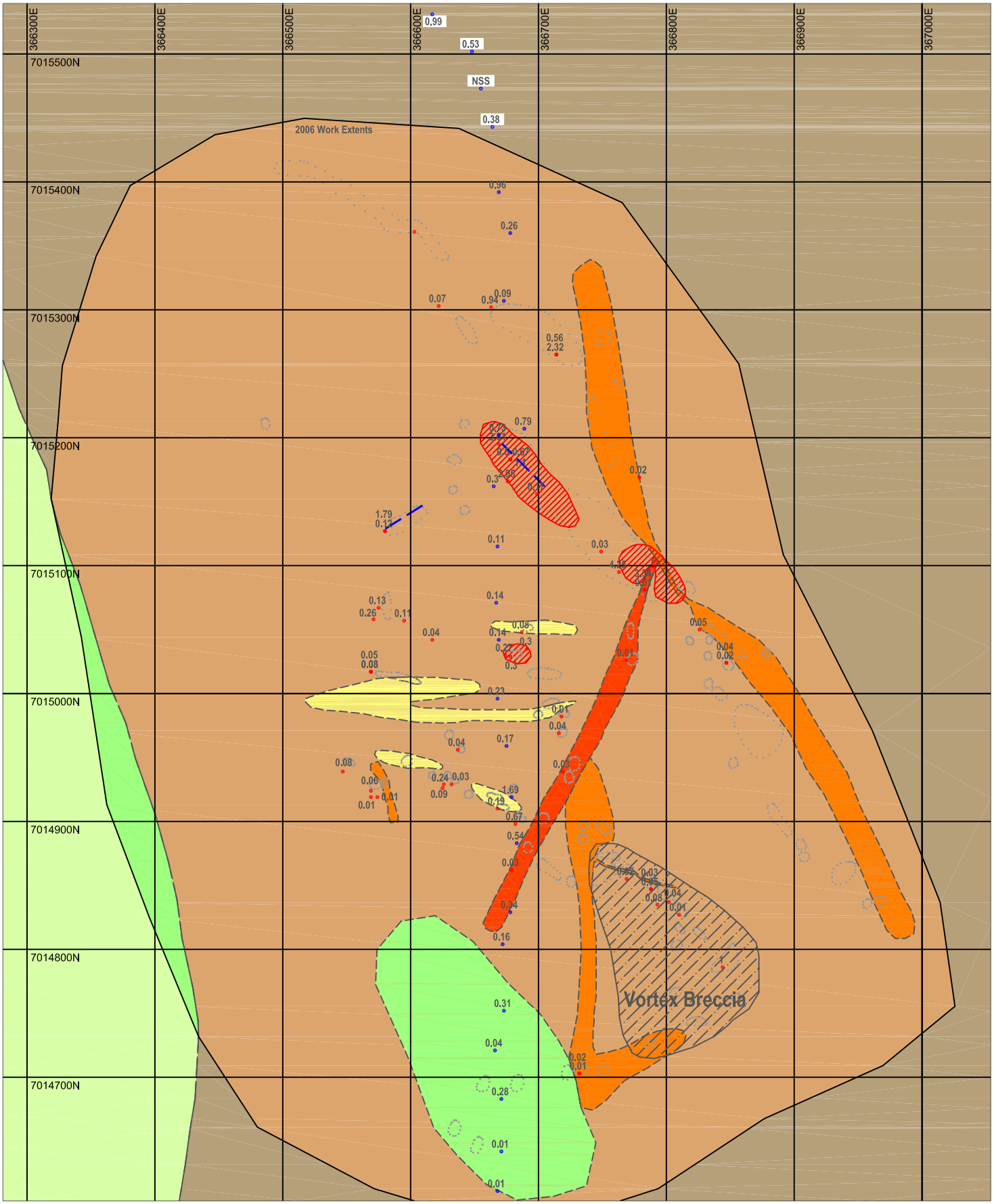
7.3 Geophysical survey results

Aurora Geosciences Ltd. (Aurora) of Whitehorse, Yukon completed a ground magnetic survey on the Harlan property in the Yukon during the summer season of 2006 for Alexco. The data was collected on GPS located, northeast-southwest oriented reconnaissance profiles with a nominal station spacing of 12.5 metres and a nominal line spacing of 100 metres. Ten lines were run in an area of about one square kilometre. The data were reduced using a local recording magnetic base station to remove diurnal drift. Aurora provided a color contour map of the reduced data and a digital file containing line and station ID's, locations in UTM coordinates, the field measurements and the reduced total magnetic field data.

The dominant feature of the contour map (Figure 6) of the magnetic field is a sharp, positive 600 to 900 nanoTesla anomaly located in the southwest corner of the survey area. The anomaly extends 400 metres along strike to the northwest and is 200 to 300 metres wide. The axis of the anomaly is located from about 366500E, 7014900N southeast to about 366725E, 7014600N. The anomaly is not completely defined and appears to extend to the south and southwest off the map. A southwest to northeast profile extracted from the magnetic grid indicates a shallow edge on the southwest end of the profile and a dike source with a dip to the northeast. The source is estimated to be about 40 metres deep. The contour map pattern indicates that a deeper, broad source extends up to 300 metres to the north and northeast of this shallow feature. A very flat magnetic response covers the rest of the survey area.

Subtle north-south, east-west and northwest-southeast magnetic linears can be seen in the magnetic map. These linears could be associated with structures or the edges of magnetic bodies. A north-south linear is located at about 366800E, marking the eastern edge of the high amplitude anomaly. An east-west linear is visible at about 7015000N. Two northwest -southeast linears that generally parallel the strike direction of the shallow magnetic body are visible extending from 367000E, 7015000N to the southeast to about 367150E, 7014800N and from 366700E, 7015300N to 367050E, 7014800N.

The geophysical survey showed a strong magnetic high in an area of Steel Formation (Road River Group) shale talus, which differs significantly from the surrounding Steel Formation rocks that form a magnetic low. The magnetic high could be related to the thrust fault contact between the Road River Group and Earn Group sediments, as the trace of the fault is not well constrained in the vegetated lower elevations. The intrusive sills and the variably silicified and clay altered Earn Group sediments form a moderately magnetic mass, with the high grade samples occurring along a shear structure at the edge of a break from moderate to low magnetic susceptibility. The intrusive sills could not be distinguished from the sediments in the magnetic data.

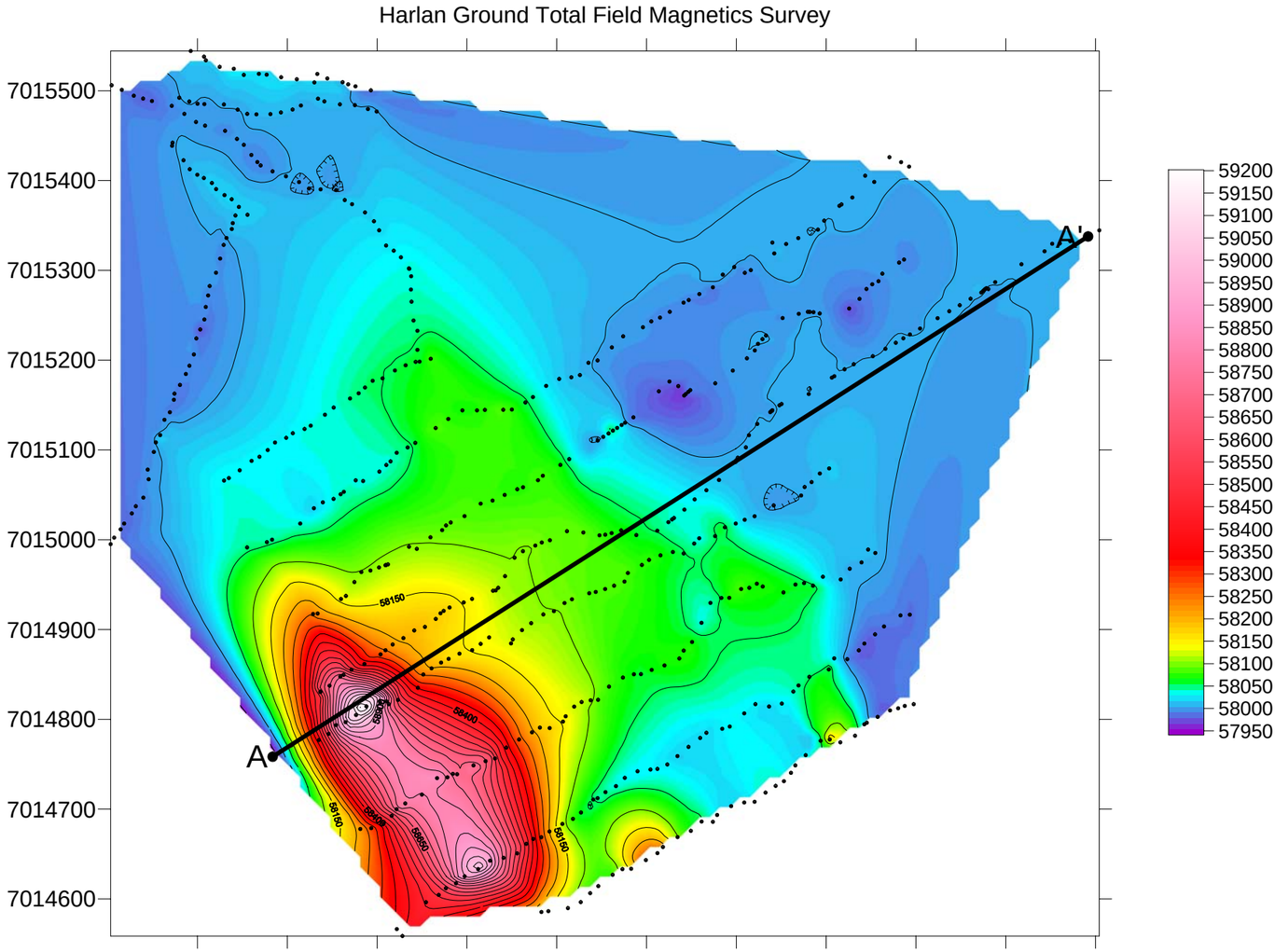


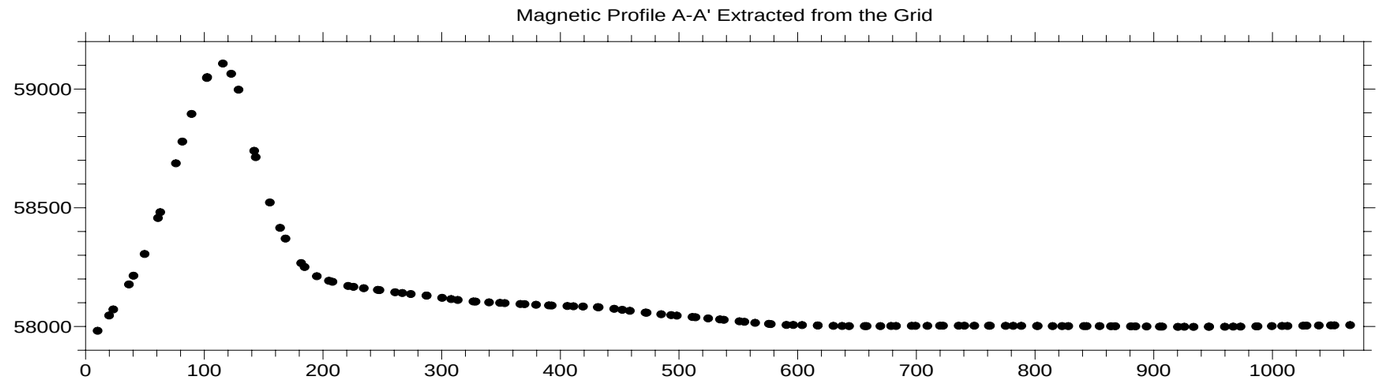
ALEXCO RESOURCE CORP

Harlan Project, Mayo Mining District, YT

FIGURE 5: Property Geology - 2006 Vortex Zone Mapping

Scale 1:4000 **Projection: NAD 27 Zone 9** **January 25, 2006**





ALEXCO RESOURCE CORP
Harlan Property, Yukon
Figure 6: 2006 Ground Magnetics with Profile
January 25, 2006

8.0 CONCLUSIONS

The Harlan property is located within the Paleozoic Selwyn Basin sedimentary package extending east-southeast from northwest of Dawson City to the Yukon-Northwest Territory border, north of the major northwest-southeast trending Tintina Fault. The package consists of shallow shelf to off-shelf marine clastic and chemical sediments and basinal clastic sediments, intruded by the Mid-Cretaceous Tombstone-Tungsten Suites which control much of the gold mineralization within the package. Multiple large scale east-southeast oriented thrust faults dip to the southwest and may be offset by later northeast-southwest high angle faults.

On the Harlan property, large thrust faulted units of Road River Group chert and graphitic argillite overlie broad units of Earn Group chert pebble conglomerate and minor siltstone. Multiple narrow, variably argillically altered and mineralized quartz monzonite to monzonitic dykes intrude the package.

In the Vortex Zone, dyke emplacement caused localized and pervasive silicification, clay alteration and mineralization within the Earn Group sediments, with highly variable alteration patterns, multiple veining events and brecciation. Soil sampling and rock sampling show consistent anomalous gold, arsenic, silver and antimony within the Earn Group sediments, with increasing gold content associated with more intense silicification and clay alteration and the presence of disseminated and veined pyrite, arsenopyrite and scorodite.

The highest gold grades (3.81, 4.25, 2.95 and 3.34 parts per million) were associated with a highly silicified and clay altered northwest trending shear zone cutting through chert pebble conglomerate and minor siltstone, with multiple intrusive sills nearby. Mineralization consisted of massive sulphide – silica aggregates at dilational areas, coarse crystalline quartz-scorodite veining and disseminated pyrite-arsenopyrite with extensive scorodite staining. A second silicified, clay altered and slickenlined northeast trending fault structure within chert pebble conglomerate and siltstone returned a 1.79 parts per million gold sample.

The Vortex Breccia, in the southern Vortex Zone, contained heterolithic breccia outcrops, consisting of angular chert pebble conglomerate, argillite, clay altered siltstone and a small number of highly altered clasts of unknown lithology (possible intrusive?) in a rock fragment/silica matrix. Breccia outcrop samples overall returned low anomalous gold mineralization (0.02-0.08 parts per million) except for one sample with disseminated pyrite in the matrix that returned 1.0 parts per million gold and 1350 parts per million arsenic. Soil samples taken through the breccia zone show elevated gold values up to 1.69 parts per million gold.

Rock sampling of intrusive phases showed no significant mineralization although a soil sample taken from intrusive material returned 0.96 parts per million gold and >10,000 parts per million arenic. No significant mineralization was found in the Road River Group samples.

The geophysical survey showed a strong magnetic high in an area of Steel Formation shale talus (part of the Road River Group stratigraphy), which differs significantly from the surrounding Steel Formation rocks that form a magnetic low. The magnetic high could be related to the thrust fault contact between the Road River Group and Earn Group sediments, as the trace of the fault is not well constrained in the vegetated lower elevations. The intrusive sills and the variably silicified and clay altered Earn Group sediments form a moderately magnetic mass, with the high grade samples occurring along a shear structure at the edge of a break from moderate to low magnetic susceptibility. The intrusive sills could not be distinguished from the sediments in the magnetic data.

Field work completed in 2006 confirmed the presence of widespread anomalous to well mineralized, pervasively altered Earn Group sediments over at least an 800 x 600 metre area. Altered Earn Group sediments also extend westward beneath the thrust faulted Road River group sediments, and the northern, eastern and southern extents are not well constrained. The Earn Group sediments remain the most prospective target in the Vortex Zone. The volumetrically minor intrusive phases show sporadic mineralization despite the extensive alteration so are not considered a viable target in this area. The

historically inferred intrusive stock at the south end of the Vortex Zone was not visited and could not be confirmed.

9.0 RECOMMENDATIONS

Retention of the Harlan property is recommended and a two phase exploration program is proposed for future work at the Harlan property.

Phase One would entail detailed, systematic mapping and soil sampling. Mapping would concentrate on finding outcrop within the extensive talus to refine the lithology distributions, particularly the dyke orientations, and to determine the extents of the breccia body. The mineralized shear zone and fault found in 2006 highlight the probability of high grade mineralized structures within a lower grade disseminated ore body, so collection of structural information is a priority. The trace and extent of the mineralized shear zone should be refined to aid in drillhole targeting. The trace of the thrust fault on the western edge of the Vortex Zone could be better constrained to try to determine its relationship to the magnetic high seen in the 2006 survey.

A soil sample grid should be conducted over the Vortex Zone at 100 metre spacing with samples taken every 25 metres.

An airborne magnetic and radiometric survey should be flown over the entire property to help define intrusive bodies and major structures. The Tombstone Suite intrusives are generally highlighted in potassium radiometric maps.

Phase Two would consist of a 2000 metre, 10 hole reconnaissance drill program with hole locations defined by results in Phase One. Two five-hole fences oriented north-south could cover all the main targets identified to date: the mineralized shear zone, disseminated sulphide mineralization, the Vortex breccia body and the magnetic high.

Respectfully submitted

M. Roberts

Melanie Roberts, BSc

Michael A. Stammers, P. Geo., FGAC

10.0 REFERENCES

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Schulze, C, 1997: Yukon Regional Project, 1997 Progress Report; In-house Report, Viceroy Exploration (Canada), Inc.

Schulze, C. 1999: 1998 Geological and Geochemical Assessment Report on the Harlan Property; In-house report, Viceroy Exploration (Canada) Inc.

Schulze, C. 2000: 1999 Geological and Geochemical Assessment Report on the Harlan Property; In-house report, NovaGold Resources Inc.

CERTIFICATE OF QUALIFICATIONS

I, Melanie Roberts, of 502-1100 Jervis Street, Vancouver, in the Province of British Columbia, Canada, certify that:

1. I am a project geologist employed with NovaGold Resources Inc., 2300 – 200 Granville Street, Vancouver, BC, V6E 1S4.

2. I am a graduate of the University of Victoria with a Bachelor of Science (Honors) in Geology in 2000.

3. I have practiced my profession continuously since 2000 and have been involved in projects in Australia, South Africa and Canada.

4. I was present at the Harlan property from August 22nd -August 31st, 2006 and during this time performed the mapping and rock sampling work, and supervised the geophysical survey and soil sampling. I reviewed the results from the program and have compiled this report based on these results and field observations.

5. I have no interest in the property described herein, nor do I expect to receive any such interest.

Dated at Vancouver, British Columbia, Canada, this 31 day of January, 2006.

M. Roberts

M. Roberts, B.Sc.

GEOLOGIST'S CERTIFICATE

I, Michael A. Stammers, of 941 Kennedy Avenue, North Vancouver, in the Province of British Columbia, Canada, DO HEREBY CERTIFY:

1 THAT I am a Senior Geologist with NovaGold Resources Inc., 2300 – 200 Granville Street, Vancouver, BC, V6E 1S4.

2 THAT I have practiced in my profession with various mining companies in Yukon, British Columbia, Ontario, Nova Scotia, Northwest Territories, Alaska, Oregon, Vanuatu and Venezuela for 30 years.

3 THAT I am a graduate of McMaster University (1977) and hold a combined Honours B.A. in Geology and Geography.

4 THAT I am duly registered as a Professional Geoscientist in the Province of British Columbia (#18883).

5 THAT I am a Fellow of the Geological Association of Canada.

6 THAT this report is based on a Harlan property visit in 2005 and Harlan property work that I supervised from August to December, 2006.

7 THAT I have no interest in the property described herein, nor do I expect to receive any such interest.

DATED at Vancouver, British Columbia, Canada, this 31 day of January, 2006.

Michael A. Stammers, P. Geo., FGAC

APPENDIX 1: List of Personnel and Contractors

PERSONNEL

Melanie Roberts, Project Geologist, NovaGold Resources Inc.
502-1100 Jervis Street, Vancouver, BC, V6E 2C4

Mike Stammers, Senior Geologist, NovaGold Resources Inc.
941 Kennedy Avenue, North Vancouver, BC

CONTRACTORS

Lauren Blackburn, Geologist/geophysical technician
Aurora Geosciences, 108 Gold Road, Whitehorse, YT, Y1A 2W3

Ron Stacks, Technician/prospector
Aurora Geosciences, 108 Gold Road, Whitehorse, YT, Y1A 2W3

Trans North Helicoptors
PO Box 8, 115 Range Road, Whitehorse, YT, Y1A 5X9

ALS Chemex
212 Brooksbank Avenue, North Vancouver, BC, V7J 2C1

APPENDIX 2: Statement of Expenditures

COST STATEMENT - HARLAN CLAIMS

Alexco Resource Corp. and 650399 BC Ltd.

CONTRACT GROUND GEOPHYSICAL SURVEYS

Contractor:	Aurora Geosciences		
Description:	Ground Magnetics and Support		
Geophysical Charges:		$9,800.00	
Camp and Equipment Support Charges:		$5,700.00	
Food, Fuel, Truck Rental		$2,030.00	$17,530.00

CONTRACT GEOLOGICAL MAPPING AND SAMPLING SURVEYS

Wages:	M. Roberts 32 days x $350	$11,200.00	
	M. Stammers 3 days x $500	$1,500.00	
	Lou O'Connor 1 day x $600	$600.00	
Trans North Helicopters		$4,440.06	
		$5,178.80	
		$2,412.77	
Freight		$123.41	
Norcan		$1,040.38	
Stammers Expenses - Hotel/gas/meals		$644.00	
Roberts Expenses – Hotels/gas/meals		$391.00	
Assays	Soils - 25	$560.00	
	Rocks - 59	$1,565.00	$29,655.42
Total Minimum Expenditures Applied:			$47,185.42

Estimated Minimum Expenditure per Work Claim*:	Cam 5, 6	$14,155.63	each
*Pro-rated to 30% to Cam 5 & 6 and 20% to Cam 7 and 8	Cam 7, 8	$9,437.08	each

APPENDIX 3: Rock Sample Descriptions

ALEXCO RESOURCE CORP

Harlan Property, Mayo Mining District, YT

2006 Rock Sample Descriptions

										Alteration					Mineralization								
Sample No.	Assay No.	Easting	Northing	Sample Type	Sample Descr.	Form.	Lithology	Modifier	Colour	Carb.	Silic	Argillic	Phyllic	Limonite	Mineral #1	%	Mineral #2	%	Other Min	%	Date	Sampler	Comments
HLN06-001	P135601	366569	7014924	Grab	Outcrop	Earn	CPC	breccia	grey		mild	mild			As	tr					25/8/2006	M. Roberts	Extensive qtz filled fractures
HLN06-002	P135602	366626	7014929	Grab	Outcrop	Earn	CPC	qtz veined	grey		mild	mild									25/8/2006	M. Roberts	Extensive qtz filled fractures
HLN06-003	P135603	366668	7014910	Grab	Outcrop	Earn	CPC	bleached	lt grey		strong	mild									25/8/2006	M. Roberts	Strongly silicified, with qtz veining and breccia infill
HLN06-004	P135604	366682	7014898	Grab	Outcrop	Earn	Siltstone	bleached	lt tan	mild	strong	mild	minor		py	tr					25/8/2006	M. Roberts	Highly bleached +sil, ox pyrite, yellow-red ox surfaces, sheeted qtz veining.
HLN06-005	P135605	366847	7015024	Grab	Outcrop	Kqm	Megacrystic Intrusive	massive	orange	mod		minor	minor		py	1					25/8/2006	M. Roberts	20m sill, megacrystic intrusive with quartz eyes
HLN06-006	P135606	366847	7015024	Grab	Outcrop	Earn	CPC	ox	grey		mod	mod		mod							25/8/2006	M. Roberts	Discrete zones of silicification, ox weathered surfaces, low veining density
HLN06-007	P135607	366769	7015026	Grab	Subcrop	Kqm	Crowded intrusive		yellow	trace		mod	mild	mild							25/8/2006	M. Roberts	Higher % of smaller feldspar phenos, no quartz eyes.
HLN06-008	P135609	366569	7015017	Grab	Outcrop	Earn	CPC	qtz veined	grey		mild										26/8/2006	M. Roberts	Moderate to abundant sheeted to stockworked qtz veined
HLN06-009	P135610	366569	7015017	Grab	Outcrop	Earn	Siltstone	qtz veined, ox	tan												26/8/2006	M. Roberts	Discrete zones of bleaching, sheeted qtz veins throughout
HLN06-010	P135611	366569	7015017	Grab	Outcrop	Earn	CPC	ox	grey		mild			mod							26/8/2006	M. Roberts	Moderate to abundant sheeted to stockworked qtz veined
HLN06-011	P135612	366575	7015067	Grab	Subcrop	Earn	CPC	bleached	lt orange		strong	mod			py	tr					26/8/2006	M. Roberts	V. bleached, friable with leached pyrite, probable mod clay alteration. Minor qtz veining
HLN06-012	P135613	366580	7015127	Grab	Outcrop	Earn?	CPC?	fine-grained	dk grey		strong		mod?		v.f.g. sulphide	?					26/8/2006	M. Roberts	Texturally destructive silicification, well developed bio/ser lathes, possible v.f.g. dissem sulphide, narrow glassy qtz veining.
HLN06-013	P135614	366580	7015127	Grab	Outcrop	Earn?	CPC?	fine-grained	lt tan	mild	strong	mod		mild							26/8/2006	M. Roberts	bleaching, texturally destructive silicification, leached, minor sheeted dk qtz veining
HLN06-014	No sample	366603	7015361	Grab	Outcrop		Vein		white						xstal scorodite	1					26/8/2006	M. Roberts	Massive coarse crystalline quartz vein with elongate green crystals: beryl?
HLN06-015	P135615	366676	7015166	Grab	Subcrop	Earn	CPC?	bleached	lt green		strong	mod			as	0.5	py	0.5			26/8/2006	M. Roberts	Sulphide mineralization in light green weathered (clay altered) rock.
HLN06-016	P135616	366699	7015156	Grab	Subcrop	Earn	CPC	bleached	lt green		strong	strong			as	5	scorodite xstals	0.5			27/8/2006	M. Roberts	bleached and silicified CPC with vuggy crystalline quatrz containing green crystals and c.g. as masses.
HLN06-017	P135617	366678	7015183	Grab	Outcrop	Earn	CPC	massive	grey		mod	mild			as	0.2	py	0.5	scorodite	0.5	27/8/2006	M. Roberts	Massive CPC with 1-2mm as-py veining, green scorodite staining on fracture surfaces, pervasive yellow-orange staining on surfaces.
HLN06-018	P135618	366678	7015183	Grab	Outcrop	Earn	CPC	vuggy	white		strong	mod			Scorodite	2					27/8/2006	M. Roberts	Vuggy quartz and green crystals within clay altered shear zone in CPC
HLN06-019	P135619	366678	7015183	Grab	Outcrop	Earn	CPC	earthy	green, grey		strong	mod			Scorodite	20					27/8/2006	M. Roberts	Silica and green mineral massive crystalline intergrowth.
HLN06-020	P135620	366669	7015195	Grab	Float/subcrop?	Earn	CPC	earthy	dark grey, green						as	30	py	50			27/8/2006	M. Roberts	Massive as-py-bright light green mineral (Clay?)
HLN06-021	P135621	366687	7015048	Grab	Subcrop	Earn	CPC		lt grey		strong	mod			py	1					27/8/2006	M. Roberts	Mod to completely texturally destructive silicification,dissem or vein py, scorodite staining on one surface, milky white quartz veins crosscut by clear dark quartz veining
HLN06-022	P135622	366732	7014703	Grab	Outcrop	Kqm	Megacrystic intrusive	massive		mod		mild	mild		py	2					28/8/2006	M. Roberts	5m sill, megacrystic intrusive, quartz eyes, dissem py
HLN06-023	P135623	366732	7014703	Grab	Outcrop	Steel Fm?	Argillite	blocky				strong		mod							28/8/2006	M. Roberts	Argillite proximal to intrusive is bleached, clay latered, more oxidized.
HLN06-024	P135624	366844	7014786	Grab	Outcrop	Earn?	Breccia	heterolithic			mild	mild			py	0.5					28/8/2006	M. Roberts	Breccia with angular CPC, siltstone and argillite clasts, rock flour matrix? Py dissem in argillite and matrix.
HLN06-025	P135625	366810	7014827	Grab	Outcrop	Earn?	Breccia	heterolithic			mod	mod									28/8/2006	M. Roberts	Variably sil breccia, siltstone and arg clay altered or replaced
HLN06-026	P135626	366802	7014837	Grab	Outcrop	Earn	CPC	fine-grained			mild				py	0.5					28/8/2006	M. Roberts	Finer--grained CPC with quartz veining and dissem py.
HLN06-027	P135627	366793	7014835	Grab	Outcrop	Earn?	CPC breccia?	ox			strong			mod							28/8/2006	M. Roberts	Broad qtz veins with green clay selvages in ox, pervasively sil CPC breccia?
HLN06-028	P135628	366788	7014847	Grab	Outcrop	Kqm	Megacrystic intrusive		orange			mild		mild							28/8/2006	M. Roberts	30cm sill, minor oxidation
HLN06-029	P135629	366788	7014847	Grab	Outcrop	Earn?	CPC breccia?				strong				py	2					28/8/2006	M. Roberts	Breccia is variably silicified, often texturally destructive, dissem py cubes often leached.
HLN06-030	P135630	366769	7014855	Grab	Outcrop	Earn	seds					mod									28/8/2006	M. Roberts	Green altered seds near sill outcrop, sheeted or massive qtz veining
HLN06-031	P135632	366547	7014939	Grab	Outcrop	Earn	CPC	qtz veined	dark grey		strong		mod?								29/8/2006	M. Roberts	Fine-grained CPC with extensive milky qtz vein network, broadly silicifies zones and crosscutting narrow clear qtz veins, v. dark matrix.
HLN06-032	P135633	366574	7014919	Grab	Outcrop	Kqm	Megacrystic intrusive	earthy, ox	orange			mod		mod							29/8/2006	M. Roberts	Strong clay alt of feldspars
HLN06-033A	P135634	366569	7014919	Grab	Subcrop/float?	Earn?	Shale?		lt grey		mod	strong									29/8/2006	M. Roberts	Strong clay alt f.g. rock, fine qtz fracture network, often vuggy, near contact with intrusive sill
HLN06-033B	P135635	366625	7014926	Grab	Outcrop	Earn	CPC	fine-grained	grey		mod	mild									29/8/2006	M. Roberts	2-4mm pebbles, some silica replaced, rare siltstone fragments clay alt.
HLN06-034	P135636	366632	7014929	Grab	Outcrop	Earn	CPC?		dk grey to black		strong				py	2					29/8/2006	M. Roberts	Pervasive sil, texturally destructive,relic clasts, leached dissem py cubes
HLN06-035	P135637	366637	7014956	Grab	Outcrop	Earn	CPC	bleached			strong	mod		mod	py	3					29/8/2006	M. Roberts	Pervasive sil CPC (breccia?) with clay alt siltstone clasts, dissem py, yellow staining on fracture surfaces, red ox staining
HLN06-036	P135638	366719	7014939	Grab	Outcrop	Steel fm?	Argillite	ox	dk grey					mod	py	2					29/8/2006	M. Roberts	Dark grey f.g. rock with dissolved py cubes, qtz stringers, well ox surfaces
HLN06-037	P135639	366716	7014969	Grab	Subcrop	Earn	CPC?		Lt cream		strong	mod									29/8/2006	M. Roberts	Texturally destructive sil and clay alt CPC?
HLN06-038	P135640	366718	7014982	Grab	Outcrop	Earn?	CPC? Breccia?	veined			mod-strong	strong									29/8/2006	M. Roberts	Large rounded clasts (clay alt), may be breccia or coarser CPC, strong qtz veining-random stringers and sheeted
HLN06-039	P135641	366678	7015029	Grab	Proximal float	Earn	CPC				strong	mod			as	0.5					29/8/2006	M. Roberts	Arsenopyrite dissem and in vines in strong alt CPC
HLN06-040	P135642	366749	7015111	Grab	Outcrop	Earn	CPC (breccia?)	heterolithic			strong			mild	py	0.5					30/8/2006	M. Roberts	Iron stained heterolithic well silicified rock, minor qtz veining, strong joint pattern
HLN06-041	P135643	366783	7015081	Grab	Subcrop	Kqm	Crowded intrusive	earthy, ox	orange			strong		strong							30/8/2006	M. Roberts	Recessive unit, strong clay alt and oxidized.
HLN06-042	P135644	366783	7015081	Grab	Outcrop	Earn	CPC (breccia?)		grey		strong	mild		mod	as	0.5	py	0.5			30/8/2006	M. Roberts	Strong sil alt CPC with well ox scorodite stained surfaces, vuggy as-py mineralization
HLN06-043	P135645	366763	7015095	Grab	Proximal float	Earn	CPC	ox	grey		strong			strong	as	0.5	py	0.5	scorodite	0.2	30/8/2006	M. Roberts	Rusty and green stained float, as+/-py veins and vugs in well sil CPC
HLN06-044	P135646	366714	7015265	Grab	Outcrop	Earn	CPC		grey		strong	mod		mod	py	1	as	0.2			30/8/2006	M. Roberts	Dissem f.g. py+/-as vuggy aggregate in strong alt CPC, locally yellow or red stained, bleached, moderate qtz veining.
HLN06-045	P135647	366714	7015265	Grab	Outcrop	Earn	CPC	qtz veined	grey		strong	mod		mod	as	0.2					30/8/2006	M. Roberts	Possible f.g. as in qtz vein in strong alt CPC, locally yellow or red stained, bleached, moderate qtz veining.
HLN06-200	P135649	366595	7015057	Grab	Outcrop	Earn	CPC	bx			strong			mod	py	tr					29/8/2006	L. Blackburn	Silicified and brecciated CPC, leached out py cubes
HLN06-201	P135650	366617	7015042	Grab	Outcrop	Earn	CPC	veined			strong										29/8/2006	L. Blackburn	Texturally destructive silicification in CPC with quartz veining
HLN06-206	P135651	366691	7015035	Grab	Outcrop	Earn	CPC? Breccia?	bx			strong	mod			py	tr					29/8/2006	L. Blackburn	Strong sil CPC breccia, dissem leached py, selective clay alteration of clasts
HLN06-207	P135652	366826	7015050	Grab	Outcrop	Earn	CPC	fine-grained			strong										29/8/2006	L. Blackburn	Rusty vuggy outcrop with variable silica alteration
HLN06-226	P135653	366779	7015169	Grab	Outcrop	Earn	CPC	ox						strong							30/8/2006	L. Blackburn	Heavily weathered, conglomerate with rusty chalky matrix, clasts are unaltered
HLN06-237	P135654	366663	7015302	Grab	Outcrop	Earn	CPC	mineralized			strong?	mod?			as	5	scorodite	0.5			30/8/2006	L. Blackburn	Highly altered conglomerate with dissem as, scorodite staining and green mineral (crystaline scorodite?)
HLN06-239	P135655	366622	7015303	Grab	Outcrop	Earn	CPC	fine-grained			mod?				py	tr					30/8/2006	L. Blackburn	Relict vugs of pyrite, rusty yellow and purple sample.
HLN06-100	P135656	366679	7014862	Grab	Outcrop?	Kqm	Intrusive								as		py				29/8/2006	R. Stack	5-6 inch vien in altered intrusive dike
HLN06-101	P135657	366674	7015030	Grab	Float	Earn	CPC								as		py				29/8/2006	R. Stack	As and Py in CPC float
HLN06-102	P135658	366571	7015058	Grab	?	Earn	CPC							mod	py		scorodite?				29/8/2006	R. Stack	rusty CPC with pyrite and green qtz vien
HLN06-046	P135659	365793	7014795	Grab	Float	Kqm	Megacrystic intrusive	massive	pink		mild	mild	mild		as	0.5					31/8/2006	M. Stammers	Relatively unaltered intrusive, primary bio, dissem as

Sample No.	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be pmm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
HLN06-001	0.06	<0.5	3.06	26	2270	0.9	<2	0.03	<0.5	<1	49	8	0.45	1.17	0.17	47	<1	0.03	3	70	4	0.07	6	32	0.21	167	<10	6
HLN06-002	0.24	5	0.43	28	260	<0.5	<2	0.01	<0.5	<1	35	4	0.28	0.15	0.04	21	<1	0.01	<1	100	39	0.03	13	7	0.02	52	<10	2
HLN06-003	0.19	1.6	0.27	33	220	<0.5	<2	0.01	<0.5	<1	24	3	0.33	0.09	0.03	19	<1	0.01	1	40	45	0.04	19	2	0.01	36	<10	<2
HLN06-004	0.67	2.3	0.51	2540	200	<0.5	<2	0.01	<0.5	<1	41	15	0.95	0.17	0.05	24	1	0.01	<1	2020	17	0.08	32	5	0.03	89	10	4
HLN06-005	0.02	<0.5	6.22	9	1440	3.2	<2	1.4	0.5	1	7	2	1.63	3.06	0.17	368	<1	1.3	1	380	10	0.17	<5	143	0.13	16	<10	24
HLN06-006	0.04	1.7	1.42	170	850	0.6	<2	0.01	<0.5	<1	33	7	0.36	0.56	0.07	13	<1	0.02	<1	300	7	0.08	<5	3	0.07	70	<10	<2
HLN06-007	0.01	<0.5	7.79	98	1640	2.7	<2	0.17	<0.5	<1	9	51	2.26	2.91	0.45	198	<1	1.55	8	500	24	0.01	6	222	0.18	39	10	28
HLN06-008	0.08	0.9	0.48	60	360	<0.5	<2	0.03	<0.5	<1	30	6	0.31	0.18	0.03	22	1	0.01	<1	60	10	0.03	12	4	0.02	71	<10	2
HLN06-009	0.03	0.9	2.05	46	1440	0.9	<2	0.01	<0.5	<1	74	3	0.24	0.86	0.11	15	<1	0.01	<1	70	19	0.02	24	8	0.12	515	10	2
HLN06-010	0.05	2	0.91	878	1000	0.6	<2	0.01	<0.5	<1	49	33	2.62	0.35	0.05	13	6	0.01	1	350	15	0.03	96	5	0.04	174	<10	7
HLN06-011	0.13	5.1	1.06	169	510	<0.5	<2	0.01	<0.5	<1	35	11	0.64	0.34	0.1	20	1	0.01	<1	160	37	0.07	49	16	0.05	165	<10	20
HLN06-012	0.12	1.2	1.3	34	1100	0.7	<2	<0.01	<0.5	1	51	4	0.21	0.57	0.07	11	<1	0.01	<1	40	9	0.04	10	5	0.06	216	<10	<2
HLN06-013	1.79	4.4	0.85	119	650	<0.5	<2	0.02	<0.5	<1	44	2	0.56	0.35	0.1	17	<1	<0.01	<1	90	7	0.18	38	4	0.05	136	<10	<2
HLN06-014	nple Missing																											
HLN06-015	2.95	5.9	0.12	>10000	50	<0.5	54	<0.01	0.5	36	31	185	22.3	0.09	0.01	5	5	0.01	18	2520	17	3.62	505	1	0.02	42	10	20
HLN06-016	0.17	1.2	1.55	6720	590	0.6	7	<0.01	<0.5	1	42	22	1	0.75	0.11	15	8	0.01	<1	350	50	0.12	72	1	0.09	127	10	4
HLN06-017	0.5	<0.5	1.85	9750	1470	0.5	<2	0.01	<0.5	2	52	45	1.27	0.82	0.1	16	<1	0.01	7	670	9	0.27	25	4	0.1	146	<10	3
HLN06-018	0.67	1.5	0.28	>10000	480	<0.5	46	0.01	<0.5	9	31	120	2.78	0.13	0.02	16	1	0.01	34	830	20	0.37	88	<1	0.03	34	<10	11
HLN06-019	1.1	5.7	1.74	>10000	440	0.6	38	<0.01	0.8	38	58	483	8.45	0.78	0.11	13	3	0.01	31	2270	24	1.03	166	<1	0.07	98	10	15
HLN06-020	3.81	4.2	0.72	>10000	40	<0.5	24	<0.01	<0.5	47	27	280	17.4	0.35	0.05	9	10	0.01	21	1140	<2	7.77	219	2	0.03	38	<10	9
HLN06-021	0.08	3.7	0.95	1040	640	<0.5	<2	<0.01	<0.5	<1	51	12	0.58	0.4	0.05	13	<1	0.01	1	300	21	0.21	31	4	0.04	162	<10	3
HLN06-022	0.01	0.6	7.5	96	1640	3.7	3	0.83	<0.5	3	9	21	2.07	3.54	0.26	310	1	1.5	6	460	20	0.44	5	185	0.13	17	<10	26
HLN06-023	0.02	<0.5	5.63	187	2550	1.7	<2	0.14	<0.5	3	80	35	1.46	2.51	0.43	78	2	0.2	25	450	7	0.13	<5	105	0.34	205	<10	33
HLN06-024	1	2.5	2.25	1350	600	1.4	4	0.03	<0.5	<1	71	7	1.4	0.65	0.27	31	4	0.09	2	2330	276	0.23	108	48	0.1	278	<10	5
HLN06-025	0.01	2.9	0.63	129	360	0.5	<2	0.02	<0.5	<1	38	11	0.66	0.24	0.03	21	1	0.01	1	2790	29	0.02	19	9	0.03	93	<10	2
HLN06-026	0.04	3.2	0.79	290	440	0.6	2	0.02	<0.5	<1	46	13	0.56	0.32	0.04	21	4	0.01	1	980	22	0.05	47	8	0.05	135	<10	2
HLN06-027	0.08	0.7	1.36	662	400	0.7	<2	<0.01	<0.5	<1	82	4	0.71	0.63	0.07	19	17	0.01	2	630	5	0.15	24	4	0.08	287	20	2
HLN06-028	0.05	0.6	7.4	130	1790	4.1	<2	<0.01	<0.5	<1	18	3	1.07	3.24	0.27	39	2	0.04	2	240	26	0.21	45	12	0.14	21	<10	5
HLN06-029	0.03	0.6	0.74	119	300	<0.5	<2	<0.01	<0.5	<1	41	6	0.44	0.34	0.04	19	1	0.01	2	510	6	0.07	17	7	0.03	141	<10	<2
HLN06-030	0.02	1.4	3.5	499	1740	1.3	<2	<0.01	<0.5	<1	119	7	1.01	1.48	0.16	20	13	0.04	1	180	8	0.05	75	11	0.2	703	10	3
HLN06-031	0.08	3.1	0.68	40	410	<0.5	<2	0.01	<0.5	<1	50	3	0.26	0.27	0.04	23	1	<0.01	2	30	6	0.01	10	6	0.03	113	<10	<2
HLN06-032	0.01	<0.5	7.57	1050	2330	3.7	<2	0.03	0.9	3	7	14	2.05	3.92	0.19	114	1	0.15	7	510	15	0.02	11	50	0.15	21	<10	58
HLN06-033A	0.01	<0.5	3.81	42	2630	1.3	<2	<0.01	<0.5	<1	58	5	0.33	1.5	0.21	30	1	0.03	2	100	4	0.04	10	37	0.29	215	<10	5
HLN06-033B	0.09	2.4	1.04	52	790	0.5	<2	0.01	<0.5	<1	49	3	0.2	0.42	0.05	15	1	<0.01	2	110	13	0.02	14	22	0.06	148	<10	<2
HLN06-034	0.03	1.5	0.78	49	790	<0.5	<2	<0.01	<0.5	<1	57	7	0.25	0.29	0.04	18	2	0.01	1	40	5	0.02	11	12	0.05	155	<10	<2
HLN06-035	0.04	5.5	0.96	79	1060	0.5	2	<0.01	<0.5	<1	51	4	0.38	0.4	0.05	14	3	0.01	2	60	8	0.06	15	7	0.04	129	<10	2
HLN06-036	0.03	1.1	2.31	482	1240	0.8	2	0.01	<0.5	<1	87	5	0.76	0.88	0.17	22	1	0.05	3	2440	11	0.03	10	36	0.14	333	<10	6
HLN06-037	0.04	2	1	612	450	<0.5	3	0.01	<0.5	<1	72	7	1	0.42	0.05	23	3	0.01	1	2840	7	0.09	18	12	0.03	186	<10	3
HLN06-038	0.01	4.2	0.89	48	620	<0.5	<2	<0.01	<0.5	1	39	3	0.18	0.36	0.03	11	1	0.01	1	50	26	0.02	30	10	0.05	129	<10	<2
HLN06-039	0.3	1.3	1.06	>10000	380	<0.5	14	0.01	<0.5	<1	42	314	3.8	0.44	0.12	17	5	<0.01	1	1450	16	0.1	83	12	0.08	85	<10	11
HLN06-040	0.03	0.9	1.74	182	1120	0.6	<2	<0.01	<0.5	<1	52	4	0.44	0.77	0.09	14	1	0.01	2	50	4	0.05	12	4	0.11	106	<10	2
HLN06-041	0.01	<0.5	8.04	645	2170	3.2	2	<0.01	<0.5	<1	10	32	2.01	3.36	0.22	54	6	0.04	3	870	24	0.34	39	30	0.19	29	<10	63
HLN06-042	3.34	43.7	0.91	>10000	590	<0.5	367	0.01	0.8	3	43	107	2.21	0.45	0.05	18	4	0.01	4	580	473	0.69	275	6	0.05	35	<10	10
HLN06-043	4.25	19.5	3.21	>10000	90	1.4	1040	<0.01	2.3	53	65	155	7.32	1.36	0.13	19	9	0.02	17	1650	322	3.04	674	8	0.13	215	20	23
HLN06-044	2.32	2.8	0.71	4300	550	<0.5	39	<0.01	<0.5	1	33	23	2.04	0.31	0.06	19	1	<0.01	2	1000	27	0.96	53	14	0.05	52	<10	2
HLN06-045	0.56	<0.5	0.93	232	390	<0.5	13	<0.01	<0.5	<1	35	4	0.43	0.32	0.06	17	3	<0.01	3	70	12	0.02	11	11	0.04	52	<10	9
HLN06-200	0.11	1.5	0.48	703	510	<0.5	<2	0.03	<0.5	<1	41	9	0.77	0.17	0.03	26	1	0.01	3	670	5	0.24	11	14	0.02	51	<10	4
HLN06-201	0.04	3.1	0.83	2480	410	<0.5	5	0.01	<0.5	<1	44	16	1.39	0.27	0.09	17	3	0.02	1	2360	19	0.18	37	12	0.04	77	<10	4
HLN06-206	0.3	1.4	2.06	598	720	1.3	<2	0.01	<0.5	<1	78	5	0.99	0.94	0.09	24	5	0.02	2	2160	64	0.16	37	37	0.09	293	<10	6
HLN06-207	0.05	4.5	1.28	1330	420	0.6	4	0.03	0.9	<1	30	35	4.74	0.71	0.12	25	4	0.01	2	1480	81	0.48	121	56	0.08	108	<10	8
HLN06-226	0.02	1.5	1.03	67	480	0.5	<2	0.06	<0.5	1	27	23	3.14	0.28	0.41	181	1	0.02	7	220	11	0.04	13	13	0.1	39	<10	192
HLN06-237	0.94	15.8	0.83	>10000	410	<0.5	132	0.01	0.8	4	37	100	4.47	0.36	0.08	29	2	<0.01	4	780	135	1.11	249	4	0.05	60	10	8
HLN06-239	0.07	1.9	0.7	778	610	<0.5	5	<0.01	<0.5	<1	40	11	1.28	0.3	0.03	15	2	<0.01	7	80	18	0.72	32	5	0.04	82	<10	2
HLN06-100	0.03	3.5	7.05	632	410	2.7	9	<0.01	<0.5	<1	5	23	3	3.02	0.37	38	2	0.05	<1	200	35	2.15	51	9	0.16	19	<10	6
HLN06-101	0.27	3.6	0.79	4350	820	<0.5	10	0.01	0.5	<1	52	24	1.4	0.25	0.05	17	3	<0.01	2	1270	25	0.11	64	20	0.05	128	<10	68
HLN06-102	0.26	8.8	1.89	9700	1490	0.6	<2	0.01	0.7	4	84	110	1.82	0.73	0.11	17	23	0.02	57	1790	72	0.74	93	14	0.1	466	<10	20
HLN06-046	0.02	0.5	7.43	98	2320	3.2	<2	0.66	0.8	3	10	10	1.87	3.31	0.38	175	2	1.92	13	580	36	0.21	<5	225	0.14	26	<10	63

APPENDIX 4: Soil Sample Descriptions

ALEXCO RESOURCE CORP

Harlan Property, Mayo Mining District, YT

2006 Soil Sample Descriptions

Soil Sample	Sample #	Easting	Northing	Sample depth (m)	Slope angle	Colour	Texture	Permafrost	% Coarse frags	Vegetation	Surface geology	Frag lithology	Organics	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
Soil Stn 1	M397451	366668	7014611	0.3	25	Lt brown	Gritty	No	60	Moss, ground shrubs	Shale	Shale	20	0.01	0.7	5.54	179	1140	1.2	<2	0.77	<0.5	2	39	24	2.23	1.59	0.35	226	4	1.16	10	1220	16	0.07	8	264	0.32	154	<10	65
Soil Stn 2	M397452	366671	7014642	0.3	25	Brown	Grit	No	70	Moss, buck brush	Shale	Shale, intrusive, qtz	10	0.01	<0.5	7.2	35	940	1.1	<2	1.81	<0.5	4	17	21	2.23	1.91	0.6	360	3	2.37	8	810	13	0.06	<5	547	0.27	71	<10	51
Soil Stn 3	M397453	366671	7014683	0.3	25	Lt brown	Grit	No	85	None	Shale	Shale, intrusive	No	0.28	2.6	4.95	975	1790	2	4	0.36	0.5	5	82	128	7.59	1.64	1.07	382	8	0.29	25	2210	49	0.68	49	191	0.31	293	<10	122
Soil Stn 4	M397454	366666	7014721	0.45	25	Brown	Grit	No	80	Moss, buck brush	Shale	Shale, CPC	10	0.04	2.3	7.01	84	780	1.2	<2	1.83	<0.5	6	16	37	2.35	1.73	0.6	370	2	2.22	6	1090	10	0.08	<5	529	0.24	63	<10	51
Soil Stn 5	M397455	366673	7014752	0.3	30	Tan		No	65	Moss, buck brush	CPC	CPC, shale	10	0.31	5.1	3.64	1590	350	1.4	10	0.34	<0.5	4	79	65	11.85	1.33	0.63	523	13	0.39	11	4140	78	1.35	80	196	0.26	327	<10	83
Soil Stn 6	M397456	366672	7014804	0.3	30	Lt brown		No	75	Moss, buck brush, balsam fir	CPC	CPC	10	0.16	1.5	7.38	176	790	1.1	2	2.12	<0.5	6	12	29	2.54	1.85	0.69	414	2	2.47	6	2340	11	0.05	6	589	0.26	71	<10	51
Soil Stn 7	M397457	366678	7014829	0.3	35	Tan		No	65	Moss, buck brush	CPC	CPC, intrusive	5	0.34	15.5	3.79	2150	1740	1.7	14	0.61	<0.5	2	134	51	8.45	1.15	0.31	110	15	0.14	10	>10000	131	0.53	68	194	0.23	396	<10	61
Soil Stn 8	M397458	366683	7014883	0.3	35	Grey		No	?	None	CPC	Intrusive, CPC	No	0.54	11.3	4.73	2480	2290	1.9	14	0.29	<0.5	2	146	50	5.06	1.55	0.55	253	20	0.27	10	5320	247	0.55	146	177	0.41	539	10	58
Soil Stn 9	M397459	366679	7014919	0.3	40	Grey		No	75	Moss	CPC	CPC, siltstone, chert	5	1.69	33.4	4.5	3790	1840	2.3	29	0.12	<0.5	1	164	33	3.04	1.06	0.63	154	15	0.25	4	6670	772	0.26	138	112	0.42	568	20	29
Soil Stn 10	M397460	366675	7014959	0.3	40	Grey		No	75	Moss	CPC	CPC, siltstone	5	0.17	10.1	4.02	736	1530	1.1	7	0.51	<0.5	2	103	23	2.92	1.12	0.33	149	9	0.47	11	5720	193	0.27	55	162	0.38	274	<10	44
Soil Stn 11	M397461	366668	7014996	0.45	25	Lt brown		No	60	Moss	CPC, siltstone	CPC, siltstone	5	0.23	42	5.17	1450	2180	1.5	7	0.58	<0.5	2	131	29	3.51	1.55	0.53	228	14	0.55	15	3480	625	0.35	255	150	0.42	412	10	58
Soil Stn 12	M397462	366669	7015042	0.45	25	Grey		No	65	Moss	Siltstone	Siltstone, CPC	5	0.14	8.7	3.68	1070	2160	1.4	5	0.4	<0.5	1	128	19	3.22	1.46	0.33	134	14	0.34	9	5220	330	0.59	138	88	0.29	471	10	36
Soil Stn 13	M397463	366667	7015071	0.45	25	Grey		No	70	Moss	Siltstone, CPC	Siltstone, CPC	5	0.14	7	3.83	618	2270	1.4	6	0.18	<0.5	<1	130	14	1.83	1.47	0.26	85	13	0.2	9	1270	144	0.3	60	63	0.44	549	<10	36
Soil Stn 14	M397464	366668	7015115	0.3	30	Brown		No	45	Moss	CPC	CPC, siltstone	5	0.11	1.7	4.1	701	1640	1.4	4	0.38	<0.5	2	101	16	1.9	1.45	0.33	150	5	0.4	10	1010	61	0.08	33	82	0.42	407	<10	44
Soil Stn 15	M397465	366665	7015162	0.3	20			No	70	Moss	Siltstone	Siltstone, CPC	5	0.3	4.6	4.53	3910	2760	1.2	24	0.36	<0.5	1	115	36	2.87	1.57	0.35	168	17	0.38	10	960	82	0.3	60	82	0.46	448	10	47
Soil Stn 16	M397466	366669	7015202	0.3	30			No	80	None	CPC	Siltstone, CPC	No	0.73	2.8	3.18	6730	510	0.6	33	0.91	<0.5	4	40	92	3.45	0.98	0.46	176	11	0.73	8	2960	397	0.5	102	219	0.23	109	<10	33
Soil Stn 17	M397467	366689	7015207	0.3	40	Tan		No	85	None	CPC	Siltstone, CPC	No	0.79	4.5	2.31	5240	600	0.8	82	0.13	<0.5	1	53	53	2.49	1.05	0.19	65	6	0.09	6	1630	208	0.51	102	89	0.2	148	10	21
Soil Stn 19	M397469	366673	7015307	0.3	35	Grey		No	80	None	CPC	CPC, silicified breccia	No	0.09	<0.5	7.05	566	9090	1.1	8	2.31	<0.5	7	13	22	2.17	1.72	0.8	375	2	2.38	6	820	17	0.28	9	628	0.26	74	<10	46
Soil Stn 20	M397470	366678	7015360	0.3	45	Tan		No	70	None	Intrusive sill	Intrusive, CPC	No	0.26	2.6	8.17	2040	1690	4	44	0.37	1.1	5	38	48	4.37	2.5	0.7	411	7	0.22	20	1390	101	0.63	47	96	0.21	121	<10	127
Soil Stn 21	M397471	366669	7015392	0.3	45	Lt brown		No	70	None	Intrusive	Intrusive	No	0.96	4.9	5.22	>10000	310	1.9	170	0.18	0.7	2	57	72	7.66	2.39	0.41	143	15	0.19	13	2370	150	1.78	108	101	0.2	166	<10	89
Soil Stn 22	M397472	366664	7015443	0.3	35	Tan		No	70	None	Intrusive	Intrusive	No	0.38	5.9	9.9	5730	2610	4.7	149	0.11	3.6	14	30	91	6.23	3.28	0.47	1150	9	0.07	30	1690	233	1.04	93	130	0.17	87	<10	236
Soil Stn 23	M397473	366655	7015473	0.3	40			No	80	None	CPC	Intrusive, chert, CPC	No	NSS	9.3	7.3	7980	1880	2.8	200	0.21	<0.5	5	61	76	4.09	2.8	0.47	240	9	0.27	8	1440	297	0.6	169	132	0.34	203	10	111
Soil Stn 24	M397474	366648	7015502	0.3	40	Grey		No	80	None	CPC Breccia	Intrusive, CPC	No	0.53	8.8	6.24	>10000	1200	2	253	0.3	<0.5	<1	75	45	5.09	2.76	0.41	88	14	0.38	<1	1980	170	1.09	217	175	0.39	239	10	43
Soil Stn 25	M397475	366617	7015531	0.3	40	Grey		No	80	None	CPC	CPC	No	0.99	6.7	7.01	4480	2160	2.6	171	0.05	<0.5	<1	62	37	4.33	2.81	0.35	90	10	0.09	8	2180	145	0.76	123	80	0.35	196	10	123

Coordinates in NAD 27 Zone 9

APPENDIX 5: ALS Chemex Laboratory Certificates

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **ALEXCO RESOURCE CORP.**
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 30-SEP-2006
Account: ALERES

CERTIFICATE VA06091273

Project: Harlan

P.O. No.:

This report is for 25 Soil samples submitted to our lab in Vancouver, BC, Canada on 5-SEP-2006.

The following have access to data associated with this certificate:

MELANIE ROBERTS	MIKE STAMMERS	M. STAMMERS

SAMPLE PREPARATION

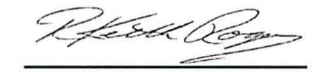
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	27 element four acid ICP-AES	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS

To: **ALEXCO RESOURCE CORP.**
ATTN: MIKE STAMMERS
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

Keith Rogers, Executive Manager Vancouver Laboratory

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To: **ALEXCO RESOURCE CORP.**
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 30-SEP-2006
Account: ALERES

Project: Harlan

CERTIFICATE OF ANALYSIS VA06091273

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
M397451		0.44	0.01	0.7	5.54	179	1140	1.2	<2	0.77	<0.5	2	39	24	2.23	1.59
M397452		0.22	0.01	<0.5	7.20	35	940	1.1	<2	1.81	<0.5	4	17	21	2.23	1.91
M397453		0.18	0.28	2.6	4.95	975	1790	2.0	4	0.36	0.5	5	82	128	7.59	1.64
M397454		0.14	0.04	2.3	7.01	84	780	1.2	<2	1.83	<0.5	6	16	37	2.35	1.73
M397455		0.32	0.31	5.1	3.64	1590	350	1.4	10	0.34	<0.5	4	79	65	11.85	1.33
M397456		0.28	0.16	1.5	7.38	176	790	1.1	2	2.12	<0.5	6	12	29	2.54	1.85
M397457		0.38	0.34	15.5	3.79	2150	1740	1.7	14	0.61	<0.5	2	134	51	8.45	1.15
M397458		0.28	0.54	11.3	4.73	2480	2290	1.9	14	0.29	<0.5	2	146	50	5.06	1.55
M397459		0.26	1.69	33.4	4.50	3790	1840	2.3	29	0.12	<0.5	1	164	33	3.04	1.06
M397460		0.56	0.17	10.1	4.02	736	1530	1.1	7	0.51	<0.5	2	103	23	2.92	1.12
M397461		0.48	0.23	42.0	5.17	1450	2180	1.5	7	0.58	<0.5	2	131	29	3.51	1.55
M397462		0.30	0.14	8.7	3.68	1070	2160	1.4	5	0.40	<0.5	1	128	19	3.22	1.46
M397463		0.34	0.14	7.0	3.83	618	2270	1.4	6	0.18	<0.5	<1	130	14	1.83	1.47
M397464		0.38	0.11	1.7	4.10	701	1640	1.4	4	0.38	<0.5	2	101	16	1.90	1.45
M397465		0.44	0.30	4.6	4.53	3910	2760	1.2	24	0.36	<0.5	1	115	36	2.87	1.57
M397466		0.52	0.73	2.8	3.18	6730	510	0.6	33	0.91	<0.5	4	40	92	3.45	0.98
M397467		0.40	0.79	4.5	2.31	5240	600	0.8	82	0.13	<0.5	1	53	53	2.49	1.05
M397468		0.06	1.23	0.8	3.93	3590	510	0.5	22	13.85	<0.5	101	48	103	8.27	0.87
M397469		0.56	0.09	<0.5	7.05	566	9090	1.1	8	2.31	<0.5	7	13	22	2.17	1.72
M397470		0.54	0.26	2.6	8.17	2040	1690	4.0	44	0.37	1.1	5	38	48	4.37	2.50
M397471		0.44	0.96	4.9	5.22	>10000	310	1.9	170	0.18	0.7	2	57	72	7.66	2.39
M397472		0.40	0.38	5.9	9.90	5730	2610	4.7	149	0.11	3.6	14	30	91	6.23	3.28
M397473		0.32	NSS	9.3	7.30	7980	1880	2.8	200	0.21	<0.5	5	61	76	4.09	2.80
M397474		0.36	0.53	8.8	6.24	>10000	1200	2.0	253	0.30	<0.5	<1	75	45	5.09	2.76
M397475		0.38	0.99	6.7	7.01	4480	2160	2.6	171	0.05	<0.5	<1	62	37	4.33	2.81

Comments: NSS is non-sufficient sample.

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ALEXCO RESOURCE CORP.
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 30-SEP-2006
Account: ALERES

Project: Harlan

CERTIFICATE OF ANALYSIS VA06091273

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2
M397451		0.35	226	4	1.16	10	1220	16	0.07	8	264	0.32	154	<10	65
M397452		0.60	360	3	2.37	8	810	13	0.06	<5	547	0.27	71	<10	51
M397453		1.07	382	8	0.29	25	2210	49	0.68	49	191	0.31	293	<10	122
M397454		0.60	370	2	2.22	6	1090	10	0.08	<5	529	0.24	63	<10	51
M397455		0.63	523	13	0.39	11	4140	78	1.35	80	196	0.26	327	<10	83
M397456		0.69	414	2	2.47	6	2340	11	0.05	6	589	0.26	71	<10	51
M397457		0.31	110	15	0.14	10	>10000	131	0.53	68	194	0.23	396	<10	61
M397458		0.55	253	20	0.27	10	5320	247	0.55	146	177	0.41	539	10	58
M397459		0.63	154	15	0.25	4	6670	772	0.26	138	112	0.42	568	20	29
M397460		0.33	149	9	0.47	11	5720	193	0.27	55	162	0.38	274	<10	44
M397461		0.53	228	14	0.55	15	3480	625	0.35	255	150	0.42	412	10	58
M397462		0.33	134	14	0.34	9	5220	330	0.59	138	88	0.29	471	10	36
M397463		0.26	85	13	0.20	9	1270	144	0.30	60	63	0.44	549	<10	36
M397464		0.33	150	5	0.40	10	1010	61	0.08	33	82	0.42	407	<10	44
M397465		0.35	168	17	0.38	10	960	82	0.30	60	82	0.46	448	10	47
M397466		0.46	176	11	0.73	8	2960	397	0.50	102	219	0.23	109	<10	33
M397467		0.19	65	6	0.09	6	1630	208	0.51	102	89	0.20	148	10	21
M397468		1.87	3380	9	0.62	31	1140	15	0.87	15	303	0.19	106	<10	146
M397469		0.80	375	2	2.38	6	820	17	0.28	9	628	0.26	74	<10	46
M397470		0.70	411	7	0.22	20	1390	101	0.63	47	96	0.21	121	<10	127
M397471		0.41	143	15	0.19	13	2370	150	1.78	108	101	0.20	166	<10	89
M397472		0.47	1150	9	0.07	30	1690	233	1.04	93	130	0.17	87	<10	236
M397473		0.47	240	9	0.27	8	1440	297	0.60	169	132	0.34	203	10	111
M397474		0.41	88	14	0.38	<1	1980	170	1.09	217	175	0.39	239	10	43
M397475		0.35	90	10	0.09	8	2180	145	0.76	123	80	0.35	196	10	123

Comments: NSS is non-sufficient sample.

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To: **ALEXCO RESOURCE CORP.**
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 2-OCT-2006
Account: ALERES

CERTIFICATE VA06091274

Project: Harlan

P.O. No.:

This report is for 59 Rock samples submitted to our lab in Vancouver, BC, Canada on 5-SEP-2006.

The following have access to data associated with this certificate:

MELANIE ROBERTS	MIKE STAMMERS	M. STAMMERS

SAMPLE PREPARATION

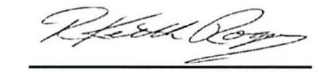
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	27 element four acid ICP-AES	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS

To: **ALEXCO RESOURCE CORP.**
ATTN: MIKE STAMMERS
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

Keith Rogers, Executive Manager Vancouver Laboratory

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Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: ALEXCO RESOURCE CORP.
2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 2-OCT-2006
Account: ALERES

Project: Harlan

CERTIFICATE OF ANALYSIS VA06091274

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
P135601		0.80	0.06	<0.5	3.06	26	2270	0.9	<2	0.03	<0.5	<1	49	8	0.45	1.17
P135602		0.64	0.24	5.0	0.43	28	260	<0.5	<2	0.01	<0.5	<1	35	4	0.28	0.15
P135603		0.62	0.19	1.6	0.27	33	220	<0.5	<2	0.01	<0.5	<1	24	3	0.33	0.09
P135604		0.58	0.67	2.3	0.51	2540	200	<0.5	<2	0.01	<0.5	<1	41	15	0.95	0.17
P135605		0.82	0.02	<0.5	6.22	9	1440	3.2	<2	1.40	0.5	1	7	2	1.63	3.06
P135606		0.74	0.04	1.7	1.42	170	850	0.6	<2	0.01	<0.5	<1	33	7	0.36	0.56
P135607		0.96	0.01	<0.5	7.79	98	1640	2.7	<2	0.17	<0.5	<1	9	51	2.26	2.91
P135608		0.06	5.87	2.3	4.63	1090	350	0.5	6	13.30	<0.5	49	42	205	8.83	0.91
P135609		0.56	0.08	0.9	0.48	60	360	<0.5	<2	0.03	<0.5	<1	30	6	0.31	0.18
P135610		0.90	0.03	0.9	2.05	46	1440	0.9	<2	0.01	<0.5	<1	74	3	0.24	0.86
P135611		0.62	0.05	2.0	0.91	878	1000	0.6	<2	0.01	<0.5	<1	49	33	2.62	0.35
P135612		0.66	0.13	5.1	1.06	169	510	<0.5	<2	0.01	<0.5	<1	35	11	0.64	0.34
P135613		0.74	0.12	1.2	1.30	34	1100	0.7	<2	<0.01	<0.5	1	51	4	0.21	0.57
P135614		0.82	1.79	4.4	0.85	119	650	<0.5	<2	0.02	<0.5	<1	44	2	0.56	0.35
P135615		0.52	2.95	5.9	0.12	>10000	50	<0.5	54	<0.01	0.5	36	31	185	22.3	0.09
P135616		0.72	0.17	1.2	1.55	6720	590	0.6	7	<0.01	<0.5	1	42	22	1.00	0.75
P135617		0.36	0.50	<0.5	1.85	9750	1470	0.5	<2	0.01	<0.5	2	52	45	1.27	0.82
P135618		1.42	0.67	1.5	0.28	>10000	480	<0.5	46	0.01	<0.5	9	31	120	2.78	0.13
P135619		0.76	1.10	5.7	1.74	>10000	440	0.6	38	<0.01	0.8	38	58	483	8.45	0.78
P135620		0.76	3.81	4.2	0.72	>10000	40	<0.5	24	<0.01	<0.5	47	27	280	17.40	0.35
P135621		0.82	0.08	3.7	0.95	1040	640	<0.5	<2	<0.01	<0.5	<1	51	12	0.58	0.40
P135622		0.98	0.01	0.6	7.50	96	1640	3.7	3	0.83	<0.5	3	9	21	2.07	3.54
P135623		0.80	0.02	<0.5	5.63	187	2550	1.7	<2	0.14	<0.5	3	80	35	1.46	2.51
P135624		0.98	1.00	2.5	2.25	1350	600	1.4	4	0.03	<0.5	<1	71	7	1.40	0.65
P135625		0.72	0.01	2.9	0.63	129	360	0.5	<2	0.02	<0.5	<1	38	11	0.66	0.24
P135626		0.76	0.04	3.2	0.79	290	440	0.6	2	0.02	<0.5	<1	46	13	0.56	0.32
P135627		0.90	0.08	0.7	1.36	662	400	0.7	<2	<0.01	<0.5	<1	82	4	0.71	0.63
P135628		0.74	0.05	0.6	7.40	130	1790	4.1	<2	<0.01	<0.5	<1	18	3	1.07	3.24
P135629		0.56	0.03	0.6	0.74	119	300	<0.5	<2	<0.01	<0.5	<1	41	6	0.44	0.34
P135630		0.64	0.02	1.4	3.50	499	1740	1.3	<2	<0.01	<0.5	<1	119	7	1.01	1.48
P135631		0.06	1.27	<0.5	4.03	3080	510	0.5	19	14.25	<0.5	106	48	104	8.49	0.88
P135632		0.58	0.08	3.1	0.68	40	410	<0.5	<2	0.01	<0.5	<1	50	3	0.26	0.27
P135633		0.48	0.01	<0.5	7.57	1050	2330	3.7	<2	0.03	0.9	3	7	14	2.05	3.92
P135634		0.64	0.01	<0.5	3.81	42	2630	1.3	<2	<0.01	<0.5	<1	58	5	0.33	1.50
P135635		0.64	0.09	2.4	1.04	52	790	0.5	<2	0.01	<0.5	<1	49	3	0.20	0.42
P135636		0.86	0.03	1.5	0.78	49	790	<0.5	<2	<0.01	<0.5	<1	57	7	0.25	0.29
P135637		0.76	0.04	5.5	0.96	79	1060	0.5	2	<0.01	<0.5	<1	51	4	0.38	0.40
P135638		0.46	0.03	1.1	2.31	482	1240	0.8	2	0.01	<0.5	<1	87	5	0.76	0.88
P135639		0.86	0.04	2.0	1.00	612	450	<0.5	3	0.01	<0.5	<1	72	7	1.00	0.42
P135640		0.90	0.01	4.2	0.89	48	620	<0.5	<2	<0.01	<0.5	1	39	3	0.18	0.36

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2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 2-OCT-2006
Account: ALERES

Project: Harlan

CERTIFICATE OF ANALYSIS VA06091274

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2
P135601		0.17	47	<1	0.03	3	70	4	0.07	6	32	0.21	167	<10	6
P135602		0.04	21	<1	0.01	<1	100	39	0.03	13	7	0.02	52	<10	2
P135603		0.03	19	<1	0.01	1	40	45	0.04	19	2	0.01	36	<10	<2
P135604		0.05	24	1	0.01	<1	2020	17	0.08	32	5	0.03	89	10	4
P135605		0.17	368	<1	1.30	1	380	10	0.17	<5	143	0.13	16	<10	24
P135606		0.07	13	<1	0.02	<1	300	7	0.08	<5	3	0.07	70	<10	<2
P135607		0.45	198	<1	1.55	8	500	24	0.01	6	222	0.18	39	10	28
P135608		1.66	3210	109	0.84	52	940	75	2.58	12	409	0.21	103	<10	128
P135609		0.03	22	1	0.01	<1	60	10	0.03	12	4	0.02	71	<10	2
P135610		0.11	15	<1	0.01	<1	70	19	0.02	24	8	0.12	515	10	2
P135611		0.05	13	6	0.01	1	350	15	0.03	96	5	0.04	174	<10	7
P135612		0.10	20	1	0.01	<1	160	37	0.07	49	16	0.05	165	<10	20
P135613		0.07	11	<1	0.01	<1	40	9	0.04	10	5	0.06	216	<10	<2
P135614		0.10	17	<1	<0.01	<1	90	7	0.18	38	4	0.05	136	<10	<2
P135615		0.01	5	5	0.01	18	2520	17	3.62	505	1	0.02	42	10	20
P135616		0.11	15	8	0.01	<1	350	50	0.12	72	1	0.09	127	10	4
P135617		0.10	16	<1	0.01	7	670	9	0.27	25	4	0.10	146	<10	3
P135618		0.02	16	1	0.01	34	830	20	0.37	88	<1	0.03	34	<10	11
P135619		0.11	13	3	0.01	31	2270	24	1.03	166	<1	0.07	98	10	15
P135620		0.05	9	10	0.01	21	1140	<2	7.77	219	2	0.03	38	<10	9
P135621		0.05	13	<1	0.01	1	300	21	0.21	31	4	0.04	162	<10	3
P135622		0.26	310	1	1.50	6	460	20	0.44	5	185	0.13	17	<10	26
P135623		0.43	78	2	0.20	25	450	7	0.13	<5	105	0.34	205	<10	33
P135624		0.27	31	4	0.09	2	2330	276	0.23	108	48	0.10	278	<10	5
P135625		0.03	21	1	0.01	1	2790	29	0.02	19	9	0.03	93	<10	2
P135626		0.04	21	4	0.01	1	980	22	0.05	47	8	0.05	135	<10	2
P135627		0.07	19	17	0.01	2	630	5	0.15	24	4	0.08	287	20	2
P135628		0.27	39	2	0.04	2	240	26	0.21	45	12	0.14	21	<10	5
P135629		0.04	19	1	0.01	2	510	6	0.07	17	7	0.03	141	<10	<2
P135630		0.16	20	13	0.04	1	180	8	0.05	75	11	0.20	703	10	3
P135631		1.93	3500	10	0.63	35	1180	15	0.89	17	310	0.19	113	<10	149
P135632		0.04	23	1	<0.01	2	30	6	0.01	10	6	0.03	113	<10	<2
P135633		0.19	114	1	0.15	7	510	15	0.02	11	50	0.15	21	<10	58
P135634		0.21	30	1	0.03	2	100	4	0.04	10	37	0.29	215	<10	5
P135635		0.05	15	1	<0.01	2	110	13	0.02	14	22	0.06	148	<10	<2
P135636		0.04	18	2	0.01	1	40	5	0.02	11	12	0.05	155	<10	<2
P135637		0.05	14	3	0.01	2	60	8	0.06	15	7	0.04	129	<10	2
P135638		0.17	22	1	0.05	3	2440	11	0.03	10	36	0.14	333	<10	6
P135639		0.05	23	3	0.01	1	2840	7	0.09	18	12	0.03	186	<10	3
P135640		0.03	11	1	0.01	1	50	26	0.02	30	10	0.05	129	<10	<2

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2300-200 GRANVILLE ST
VANCOUVER BC V6C 1S4

Finalized Date: 2-OCT-2006
Account: ALERES

Project: Harlan

CERTIFICATE OF ANALYSIS VA06091274

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01
P135641		0.48	0.30	1.3	1.06	>10000	380	<0.5	14	0.01	<0.5	<1	42	314	3.80	0.44
P135642		0.84	0.03	0.9	1.74	182	1120	0.6	<2	<0.01	<0.5	<1	52	4	0.44	0.77
P135643		0.62	0.01	<0.5	8.04	645	2170	3.2	2	<0.01	<0.5	<1	10	32	2.01	3.36
P135644		1.56	3.34	43.7	0.91	>10000	590	<0.5	367	0.01	0.8	3	43	107	2.21	0.45
P135645		0.48	4.25	19.5	3.21	>10000	90	1.4	1040	<0.01	2.3	53	65	155	7.32	1.36
P135646		0.38	2.32	2.8	0.71	4300	550	<0.5	39	<0.01	<0.5	1	33	23	2.04	0.31
P135647		0.66	0.56	<0.5	0.93	232	390	<0.5	13	<0.01	<0.5	<1	35	4	0.43	0.32
P135648		0.06	5.60	2.5	4.62	826	440	0.5	13	13.65	<0.5	51	39	202	8.70	0.89
P135649		0.90	0.11	1.5	0.48	703	510	<0.5	<2	0.03	<0.5	<1	41	9	0.77	0.17
P135650		0.50	0.04	3.1	0.83	2480	410	<0.5	5	0.01	<0.5	<1	44	16	1.39	0.27
P135651		0.40	0.30	1.4	2.06	598	720	1.3	<2	0.01	<0.5	<1	78	5	0.99	0.94
P135652		1.02	0.05	4.5	1.28	1330	420	0.6	4	0.03	0.9	<1	30	35	4.74	0.71
P135653		0.60	0.02	1.5	1.03	67	480	0.5	<2	0.06	<0.5	1	27	23	3.14	0.28
P135654		0.70	0.94	15.8	0.83	>10000	410	<0.5	132	0.01	0.8	4	37	100	4.47	0.36
P135655		0.48	0.07	1.9	0.70	778	610	<0.5	5	<0.01	<0.5	<1	40	11	1.28	0.30
P135656		0.48	0.03	3.5	7.05	632	410	2.7	9	<0.01	<0.5	<1	5	23	3.00	3.02
P135657		0.82	0.27	3.6	0.79	4350	820	<0.5	10	0.01	0.5	<1	52	24	1.40	0.25
P135658		0.60	0.26	8.8	1.89	9700	1490	0.6	<2	0.01	0.7	4	84	110	1.82	0.73
P135659		0.58	0.02	0.5	7.43	98	2320	3.2	<2	0.66	0.8	3	10	10	1.87	3.31

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CERTIFICATE OF ANALYSIS VA06091274

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
	Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.01	5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2
P135641		0.12	17	5	<0.01	1	1450	16	0.10	83	12	0.08	85	<10	11
P135642		0.09	14	1	0.01	2	50	4	0.05	12	4	0.11	106	<10	2
P135643		0.22	54	6	0.04	3	870	24	0.34	39	30	0.19	29	<10	63
P135644		0.05	18	4	0.01	4	580	473	0.69	275	6	0.05	35	<10	10
P135645		0.13	19	9	0.02	17	1650	322	3.04	674	8	0.13	215	20	23
P135646		0.06	19	1	<0.01	2	1000	27	0.96	53	14	0.05	52	<10	2
P135647		0.06	17	3	<0.01	3	70	12	0.02	11	11	0.04	52	<10	9
P135648		1.65	3300	110	0.87	52	930	78	2.71	13	427	0.22	100	<10	126
P135649		0.03	26	1	0.01	3	670	5	0.24	11	14	0.02	51	<10	4
P135650		0.09	17	3	0.02	1	2360	19	0.18	37	12	0.04	77	<10	4
P135651		0.09	24	5	0.02	2	2160	64	0.16	37	37	0.09	293	<10	6
P135652		0.12	25	4	0.01	2	1480	81	0.48	121	56	0.08	108	<10	8
P135653		0.41	181	1	0.02	7	220	11	0.04	13	13	0.10	39	<10	192
P135654		0.08	29	2	<0.01	4	780	135	1.11	249	4	0.05	60	10	8
P135655		0.03	15	2	<0.01	7	80	18	0.72	32	5	0.04	82	<10	2
P135656		0.37	38	2	0.05	<1	200	35	2.15	51	9	0.16	19	<10	6
P135657		0.05	17	3	<0.01	2	1270	25	0.11	64	20	0.05	128	<10	68
P135658		0.11	17	23	0.02	57	1790	72	0.74	93	14	0.10	466	<10	20
P135659		0.38	175	2	1.92	13	580	36	0.21	<5	225	0.14	26	<10	63

APPENDIX 6: Aurora Geophysical Report with CD

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MEMORANDUM

To: Mike Stammers
Alexco Resource Corp.

Date: 19 Sept 2006

From: Phil Jackson

Re: Field Report - Harlan Magnetic Survey

This memorandum is a field report describing the results of a total magnetic field survey conducted for Alexco Resource Corp. at the Harlan Property. The purpose of the survey was to test the magnetic response on the property in order to better define lithological discontinuities.

a. Personnel and equipment. The total magnetic field survey was conducted by the following personnel:

Lauren Blackburn	Crew chief / technician
Ron Stack	Technician

The crew was equipped with the following instruments and equipment:

Base Magnetometer	1 - Gem GSM-19 Overhauser magnetometers
Mobile Magnetometer	2 - Gem GSM-19 Overhauser magnetometers
Other:	P-1.2GHz laptop 2 - VHF radios

The project was conducted between August 18th and August 31st, 2006 inclusive.

b. Survey area and stations. A total of 7.32 line km of total field magnetic data was surveyed. The area is bounded by (UTM NAD27 Zone 9N) 366000E 7014000N to 367500E 7106000N. This area is centred on the Harlan Property with the station distribution designed to measure the property scale magnetic fields.

c. Survey specifications. The geophysical surveys were conducted according the following specifications with exceptions as noted:

TOTAL MAGNETIC FIELD SURVEY

Station spacing: 12.5 m

Base station: Installed at a fixed location in a magnetically quiet area on the grid and cycled at a three second interval throughout the survey period.

Registration: Data was registered to UTM coordinates (NAD27) using a nondifferential GPS receiver mounted on the rover magnetometer.

d. Data processing. Data processing included the following steps and procedures:

TOTAL MAGNETIC FIELD SURVEY

1. Registration. The total magnetic field data was registered to UTM coordinates by matching or interpolating locations in the track log to corresponding magnetic field readings based on their record times.

2. Geomagnetic variation removal. Base and rover magnetometers were synchronized to GPS time prior to each survey day. Temporal geomagnetic variation was removed by linear interpolation using the base station data. Data collected during periods in which geomagnetic variation exceeds 10 nT / 10 s were not included in the final data set; no data was rejected as being above this noise threshold.

e. Survey notes and data. An orthogonal levelling line was surveyed by the operator at the start of each survey day to serve as a datum for levelling the operators daily drift.

f. Results. A digital archive is included with this report on CD-ROM. This contains the following:

Final TFM data after all corrections (Geosoft gdb & xyz text file)
Images of the merged TFM maps (Geosoft maps & Geotifs).
Project Summary spreadsheets (.xls files).

Thank you for the opportunity to work with you on this interesting project. If you have any questions, please contact me directly in Whitehorse.

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Phil Jackson, P.Geoph.
Geophysicist

/attach.

COST STATEMENT - HARLAN CLAIMS

Alexco Resource Corp. and 650399 BC Ltd.

CONTRACT GROUND GEOPHYSICAL SURVEYS

Contractor:		Aurora Geosciences	
Description:		Ground Magnetics and Support	
Geophysical Charges:		$9,800.00	
Camp and Equipment Support Charges:		$5,700.00	
Food and Fuel		$500.00	$16,000.00

CONTRACT GEOLOGICAL MAPPING AND SAMPLING SURVEYS

Wages:	M. Roberts 20 days x $350	$7,000.00	
	M. Stammers 3 days x $500	$1,500.00	
Trans North Helicopters		$4,440.06	
		$5,178.80	
		$2,412.77	
Freight		$123.41	
Norcan		$1,040.38	
Stammers Expenses - Hotel/gas/meals		$644.00	
Roberts Expenses - Hotels,gas meals		$391.00	
Assays	Soils - 25	$560.00	
	Rocks - 59	$1,565.00	$24,855.42
Total Minimum Expenditures Applied:			$40,855.42

Estimated Minimum Expenditure per Work Claim*:	Cam 5, 6	$12,256.63 each
*Pro-rated to 30% to Cam 5 & 6 and 20% to Cam 7 and 8	Cam 7, 8	$8,171.08 each