

Ministry of Energy and Mines  
BC Geological Survey

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

<b>TITLE OF REPORT [type of survey(s)]</b> 2010 Geological Report on the Dan Property	<b>TOTAL COST</b> 7,482.20
<b>AUTHOR(S)</b> Bob Lane, Bethany Jacobson	<b>SIGNATURE(S)</b> 
<b>NOTICE OF WORK PERMIT NUMBER(S)/DATE(S)</b> _____	<b>YEAR OF WORK</b> 2010
<b>STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S)</b> 4852928	

**PROPERTY NAME** DAN

**CLAIM NAME(S) (on which work was done)** 607448, 607449, 607450, 832595, 832596, 832665, 832666

**COMMODITIES SOUGHT** Fluorite

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN** \_\_\_\_\_

**MINING DIVISION** LIARD **NTS** \_\_\_\_\_

**LATITUDE** 59 ° 43 ' 00 " **LONGITUDE** 125 ° 31 ' 00 " (at centre of work)

**OWNER(S)**  
 1) Stikine Energy Corp 2) \_\_\_\_\_

**MAILING ADDRESS**  
 490 - 1122 Mainland St  
 Vancouver, BC V6B 5L1

**OPERATOR(S) [who paid for the work]**  
 1) Same 2) \_\_\_\_\_

**MAILING ADDRESS**  
 Same

**PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):**  
 Dunedin Fm, Limestone, Marble, Chert, Fluorite

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS**

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping		832595-96 832665 607448-50 832666	2,000
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock	1	as above	500
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying	13	as above	500
Petrographic	13		
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)		500 ha	4,000
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	Field Prep, maps, planning		482.20
TOTAL COST			7,482.20

**BC Geological Survey  
Assessment Report  
32335**

**2010  
Geological and Geochemical  
Report on the  
Dan Property**

**Liard Mining Division  
British Columbia**

**BCGS Map 094N.073  
Latitude 59.716667°N and Longitude 125.516667°W  
Statement of Work Event #: 4852928**

PREPARED FOR: STIKINE ENERGY CORP.  
490 – 1122 MAINLAND STREET  
VANCOUVER, BC CANADA V6B 5L1

PREPARED BY: BOB LANE, PGEO  
BETHANY JACOBSON, GIT  
PLATEAU MINERALS CORP

DATE: JULY 8, 2011

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## APPENDICES

Appendix A – Laboratory Certificates

## **1. EXECUTIVE SUMMARY**

The Dan property is located approximately 190 km northwest of Fort Nelson. The property is comprised of 7 claims that cover 2074.34 ha in the Liard Mining Division. The claims cover a reported 12 fluorite mineral showings that occur within well-bedded grey limestone of Upper Silurian to Middle Devonian Dunedin Formation.

On August 15 and September 14, 2010 Stikine Energy Corp conducted a prospecting and sampling program on the Dan property. The work located three fluorite showings. Mineralization at these showings is described as stratiform, disseminated to massive bedded replacements, and as veins, stockworks and breccias. One sample collected and submitted for analysis graded >10000 ppm F and 2359 ppm Ba.

It is recommended that follow-up work be conducted on the Dan property to more adequately assess its potential to host economic fluorite deposit.

## 2. INTRODUCTION

This summary report has been prepared at the request of Stikine Energy Corp (Stikine) to summarize results from a brief reconnaissance prospecting and sampling program conducted in August and September of 2010 on the Dan property. The current report was prepared by Bethany Jacobson, GIT, and Bob Lane, PGeo, who conducted the fieldwork.

Initial field observations were encouraging and are described below.

### 2.1. LOCATION AND ACCESS

The Dan property is located in the Liard Mining Division about 48 km northeast of Mile 496 on the Alaska Highway where the Alaska Highway crosses the Liard River (Figure 1). The approximate centre of the property is Lat 59° 43' N and Long 125° 31' W. Old oil and gas exploration trails come within 6.5 km of the property but present access to the claims is by helicopter.

### 2.2. PHYSIOGRAPHY AND CLIMATE

The Dan property is located in the Caribou Range of the Liard Plateau physiographic region. Topographic relief in the area ranges from about 1200 m to 1520 m. Most of the property is above tree line and outcrop is abundant at higher elevations.

Seasonal temperatures of the property are not available, but Watson Lake averages highs of 21°C in July and lows of -29°C in January. Watson Lake has an average annual snowfall of 197 cm and average annual rainfall of 26 cm.

### 2.3. PROPERTY STATUS AND OWNERSHIP

The Dan property consists of seven mineral claims that cover 2074.34 ha (Table 1 and Figure 2). The claims are 100% owned by Stikine Energy Corp.

**Table 1: Dan Property – Mineral Claims**

Tenure Number	Claim Name	Owner	Tenure Type	Map Number	Issue Date	Good to Date	Area (ha)
607448		145114 (100%)	Mineral	094N	2009/jul/10	2015/nov/01	408.12
607449		145114 (100%)	Mineral	094N	2009/jul/10	2015/oct/31	408.11
607450		145114 (100%)	Mineral	094N	2009/jul/10	2013/sep/30	408.33
832595	Dan	145114 (100%)	Mineral	094N	2010/sep/01	2013/sep/30	16.32
832596	Dan2	145114 (100%)	Mineral	094N	2010/sep/01	2013/sep/30	16.33
832665	STAN3	145114 (100%)	Mineral	094N	2010/sep/02	2013/sep/30	408.44
832666	STAN4	145114 (100%)	Mineral	094N	2010/sep/02	2013/sep/30	408.69
Total			7				2074.34

350000

400000

Yukon Territory



Dan Property



Grayling River Hot Springs Ecological Reserve

Scatter River Old Growth Park

Liard River Corridor Park

Liard River Corridor Protected Area

Liard River Corridor Park

British Columbia

Liard River

Liard River

Toad River

Liard River West Corridor Park

Liard River Corridor Park

Liard River Corridor Protected Area

Muncho Lake Park

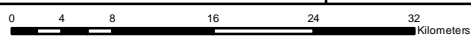
Hwy 97

STIKINE ENERGY CORP.

Dan Property Figure 1 - Location

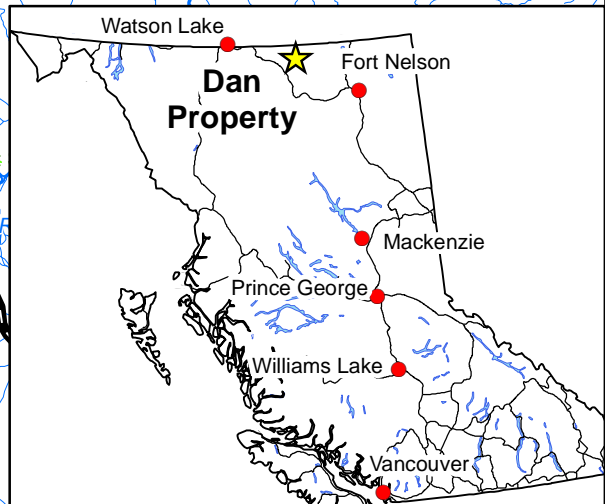
- City/Town
- Highway
- Main Road
- Stream
- Lake
- Provincial Park
- Tenure
- Provincial Outline

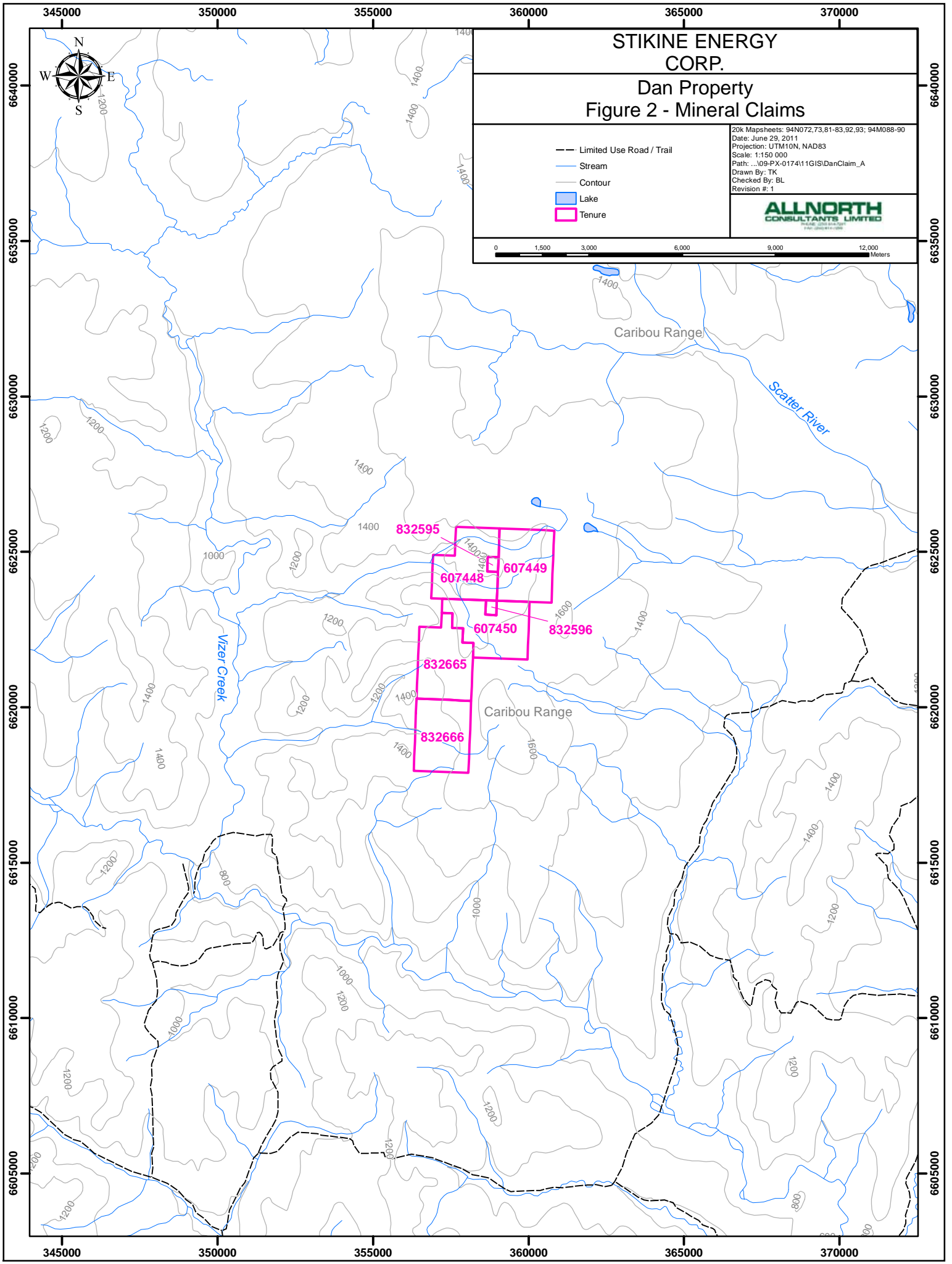
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 Scale: 1:600 000  
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 Drawn By: TK  
 Checked By: BL  
 Revision #:



350000

400000



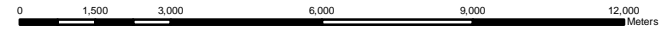


**STIKINE ENERGY CORP.**

**Dan Property  
Figure 2 - Mineral Claims**

- Limited Use Road / Trail
- Stream
- Contour
- Lake
- Tenure

20k Mapsheets: 94N072,73,81-83,92,93; 94M088-90  
 Date: June 29, 2011  
 Projection: UTM10N, NAD83  
 Scale: 1:150 000  
 Path: ...09-PX-0174\1GIS\DanClaim\_A  
 Drawn By: TK  
 Checked By: BL  
 Revision #: 1



832595  
 607448  
 607449  
 607450  
 832665  
 832666

Caribou Range

Scatter River

Vizer Creek

Caribou Range



## **2.4. EXPLORATION HISTORY**

Mineral exploration in the area of the Dan claims was conducted by Frontier Resources Incorporated in 1972 (Gjelsteen and Smith, 1973). This work identified 12 fluorite showings, most of which were reported to occur within the upper 30 m of the Dunedin Formation. Four of these showings warranted entry into the province's electronic Minfile database: Dan 6 (094N 005), Dan 32 (094N 004), Dan 39 (094N 006) and Dan 48 (094N 007). Mineralization was reported to consist of fluorite, barite, witherite and calcite. Styles of mineralization ranged from vein and breccia fillings to bedded replacements. Mineralization followed one of two poorly defined mineral trends, a 'northern trend' and a 'southern trend'. A composite rock chip sample collected from the bedded replacement showings was submitted for analysis and returned a value of 53.4% CaF<sub>2</sub> (Gjelsteen and Smith, 1973). Further assessment of the area was recommended.

## **3. REGIONAL GEOLOGY**

The regional geology of area of interest is presented in Figure 3 (Massey et al., 2005; Walsh, 2004; Taylor and Stott, 1999). The Dan property area is underlain principally by successions of north-northeast trending platformal clastic and carbonate sedimentary rocks that range in age from Silurian to Triassic.

A series of north-northeast oriented upright anticline-syncline folds and eastward-directed thrust faults are typical of the region (Taylor and Stott, 1999). Older rocks are typically exposed in the cores of anticlinal folds and on the hanging walls of thrust faults.

The basement to the sedimentary rocks, and the oldest rocks exposed in the area, are weakly metamorphosed quartz sandstones and shales of an unnamed Cambrian succession. This succession may be equivalent to the Lower Cambrian Atan Group (Taylor and Stott (1973). A thin conglomerate marks the erosional unconformity that separates the quartz sandstone from overlying Silurian rocks.

The conglomerate is conformably overlain by limy siltstones, sandstones and limestones of the lower Silurian Nonda Formation. The Silurian rocks are overlain by a generally eastward-younging succession that is dominated by dolomitic carbonate and limy fine-grained clastic rocks of the Silurian-Devonian Wokkash, Stone, Muncho-McConnell and Dunedin formations. These rocks are overlain by shale of the Devonian Besa Formation and are capped by fine-grained, fossiliferous quartz sandstone to quartzite of the Mississippian Mattson Formation. Locally, Mattson Formation rocks are exposed in the core of several anticlines, and are flanked by overlying chert, siliceous argillite and siliciclastic rocks of the Permian Fantasque Formation, and by coarse clastic sedimentary rocks of the Carboniferous and Permian Kindle Formation.

Recessive-weathering fine-grained clastic rocks of the Triassic Grayling and Toad Formations occupy broad areas of the region. The area well east of the Nonda property is dominated by generally weakly lithified clastic sediments of the Lower Cretaceous Scatter, Lepine and Garbutt formations of the Fort St. John Group.

## **4. PROPERTY GEOLOGY**

The central part of the Dan property is underlain by limestone, marble and calcareous sedimentary rocks of the Dunedin Formation. The northwest corner of the property is underlain by dolomitic carbonate rocks of the Stone Formation. Both the Dunedin and Stone formations are Upper Silurian to Middle Devonian in age. The eastern side of the property is underlain by mudstone, siltstone, shale and fine-grained clastic sedimentary rocks of the Besa River Formation and quartzite and quartz arenite of the Mattson Formation.

The Dunedin Formation is about 259 m thick (Gjelsteen and Smith, 1973). The lower 90 m is highly fossiliferous with thick beds of stromatoporoid- and coral-bearing limestone. The middle unit of about 137 m consists of dark grey argillaceous limestone and dolomitic limestone, as well as thin beds of quartz siltstone. The upper 30 m is dark grey limestone with lenses and nodules of black chert. The fluorite-barite mineral showings are reported to occur within this upper section of Dunedin stratigraphy.

## **5. MINERALIZATION AND GEOLOGICAL MODEL**

Fluorite mineralization on the Dan property has been described as stratiform, disseminated to massive bedded replacements, and as veins, stockworks and breccias. Replacement zones measure up to 38 m long by 30 m wide and 10 m thick that are concordant with the host limestone strata. At the Dan 6 occurrence consists of disseminated purple fluorite and barite, associated with witherite and calcite. Veins, and associated stockwork and breccia zones, are narrow. A composite chip sample from the Dan 6, Dan 32 and Dan 48 occurrences assayed 53.4%  $\text{CaF}_2$ , 41.1%  $\text{SiO}_2$  and 4.1%  $\text{BaCO}_3$  (Gjelsteen and Smith, 1973).

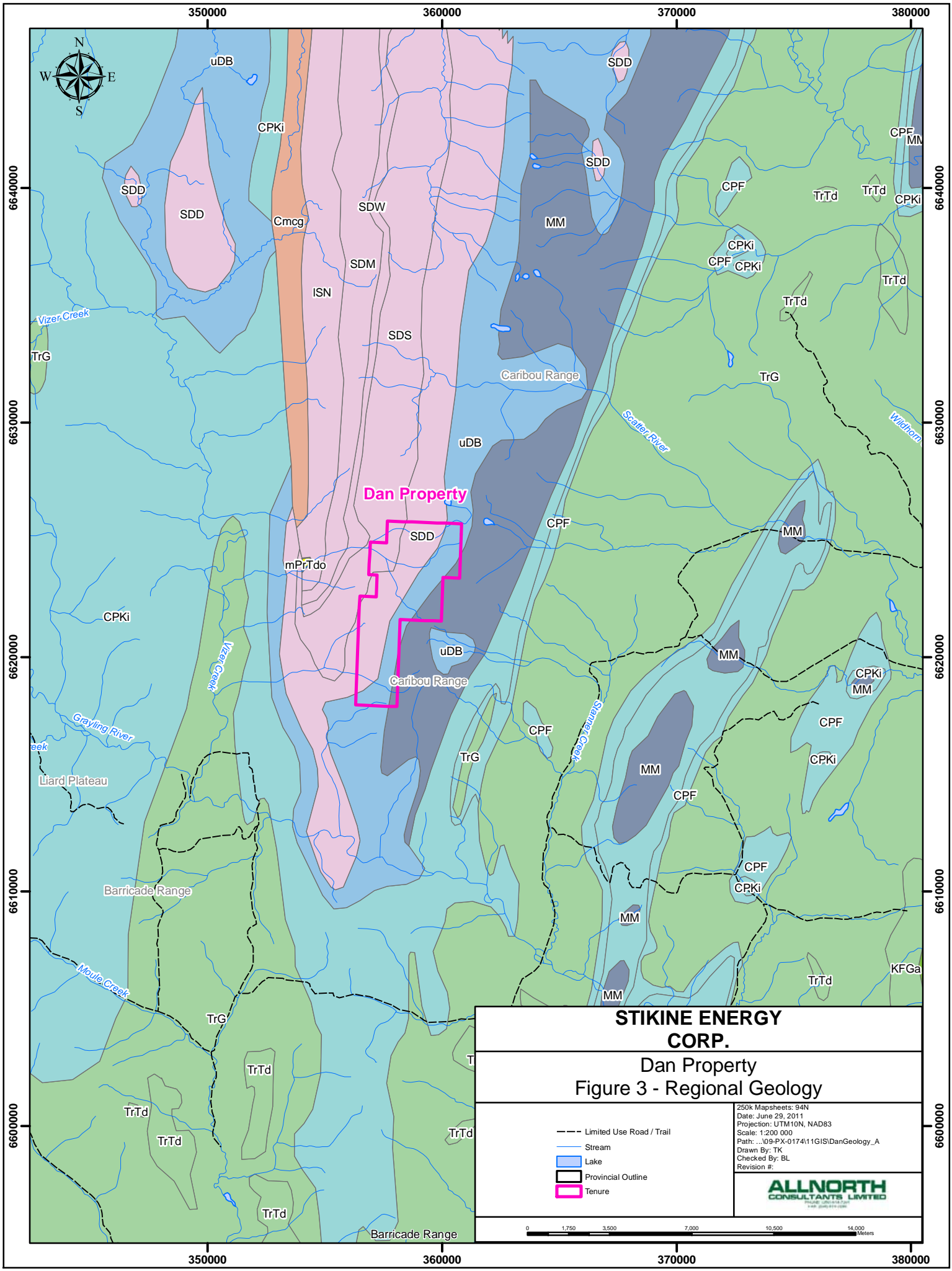
The Dan fluorite occurrences are regarded to generally fit the *Carbonate-hosted Fluorspar* mineral deposit model.

## **6. 2010 EXPLORATION PROGRAM**

Exploration on the Dan property in 2010 took place on August 15 and on September 14. The work consisted of several short helicopter-supported traverses that were intended to locate and briefly examine fluorite occurrences that are described in the provincial Minfile database. Limited prospecting identified three areas of weakly to well-mineralized fluorite-bearing mineralization (Figure 4). Each area coincides with the potted location for an existing Minfile occurrence, namely Dan 6 (094N 005), Dan 32 (094N 004) and Dan 39 (094N 006).

Limited prospecting identified areas of weakly to well-mineralized fluorite over a 3.5 km trend that appear to follow that appear to follow a crude northeasterly trend. Mineralization was particularly well-developed in the vicinity of the Dan 4 Minfile occurrence. In that location, purple fluorite occurs in fractures, stockworks and narrow dilational breccias that cut grey, well-bedded, fossiliferous limestone. These zones were locally marked by subtle earthy hematite staining of the limestone.

Representative rock samples were collected from each area prospected and are listed in Table 2. Only one sample, NS10-BL01, was submitted for analysis. It was collected from talus below a steep bedrock face that displayed a moderately well-developed stockworks of fluorite-calcite mineralization with subordinate barite (Figure 5). Geochemical results are summarized in Table 3 and provided in full in Appendix A.

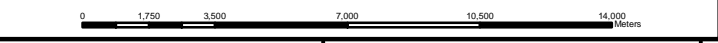


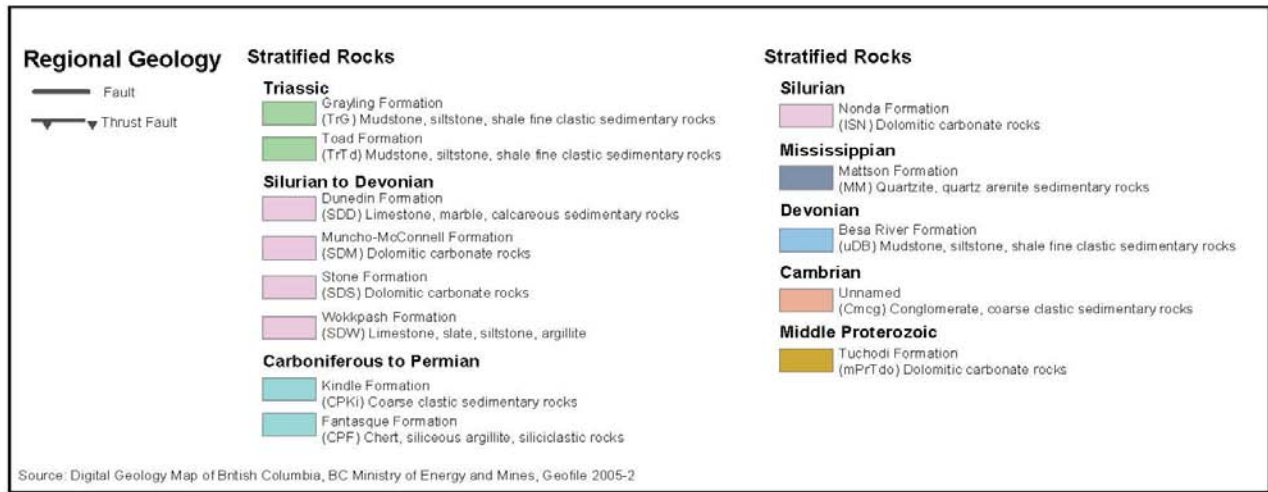
**STIKINE ENERGY CORP.**

**Dan Property  
Figure 3 - Regional Geology**

- Limited Use Road / Trail
- Stream
- Lake
- Provincial Outline
- Tenure

250k Mapsheets: 94N  
 Date: June 29, 2011  
 Projection: UTM10N, NAD83  
 Scale: 1:200 000  
 Path: ...09-PX-0174\11GIS\DanGeology\_A  
 Drawn By: TK  
 Checked By: BL  
 Revision #:



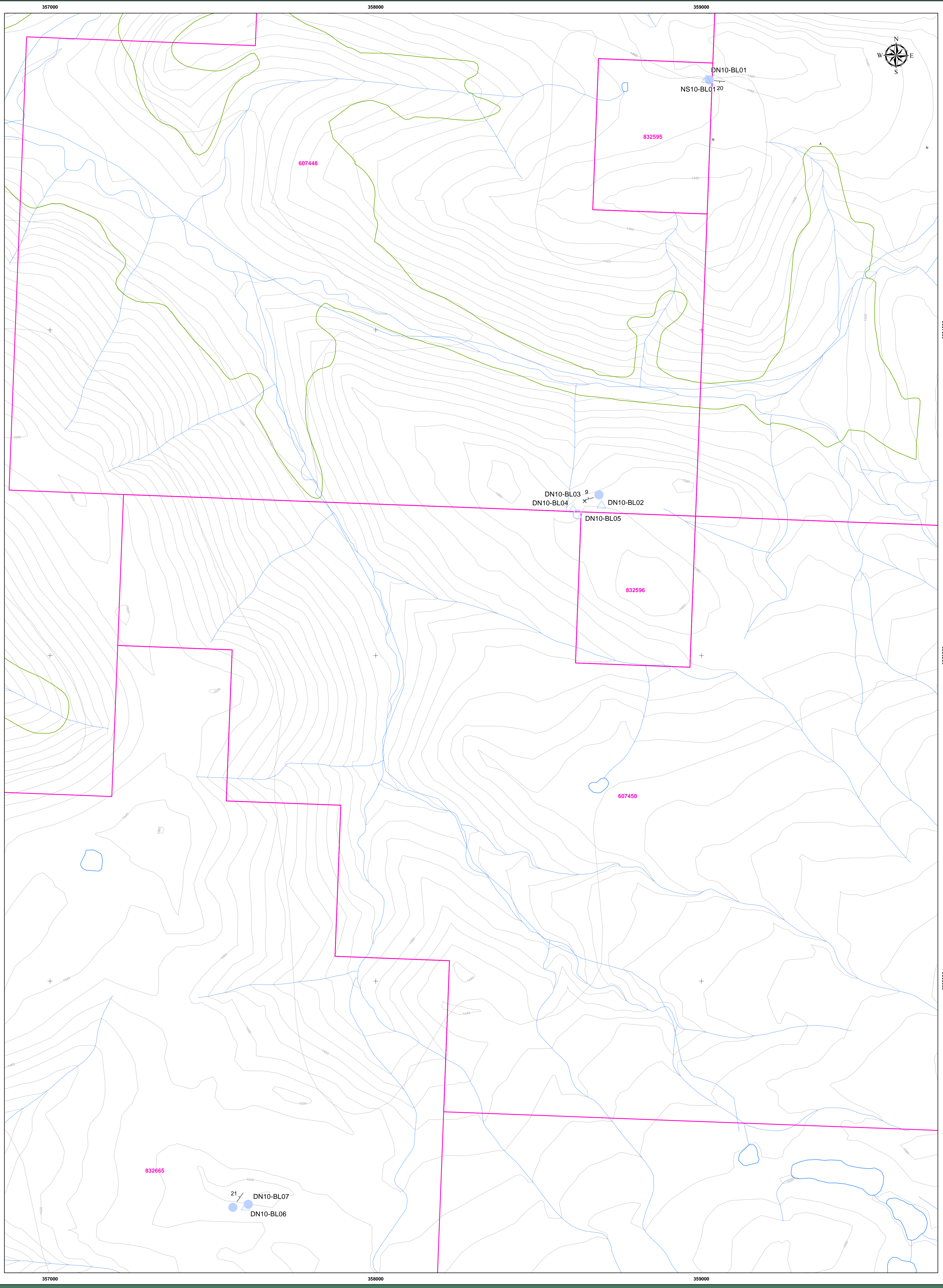


**Table 2: Dan Property – Sample Description**

Sample ID	Location (Easting; Northing)	Elevation (m)	Description
NS10-BL01	359624; 6624768	1436	Talus below well-bedded outcrop of grey weathering, grey fossiliferous limestone. Grab sample from talus: coarse-grained purple fluorite & white sparry calcite in narrow veins, stockworks & breccias cutting limestone
DN10-BL01	359015; 6624772	1423	Grab sample from talus: coarse-grained purple fluorite & white sparry calcite in narrow veins, stockworks & breccias cutting limestone.
DN10-BL02	358693; 6623465	1379	Grey limestone w/ thin interbeds of laminated black mudstone; fluorite on fractures and in veinlets; calcite micro-fractures.
DN10-BL03	358642; 6623474	1365	Purple fluorite & coarse-grained calcite in veinlets cutting grey limestone; talus directly below outcrop
DN10-BL04	358606; 6623452	1363	Narrow, sheeted veinlets of fluorite-calcite cutting grey limestone
DN10-BL05	358620; 6623433	1377	Sub o/c of fluorite-calcite bearing veinlets cutting grey limestone
DN10-BL06	357601; 6621309	1498	Below limestone bluffs; narrow barite vein
DN10-BL07	357609; 6621314	1496	Fluorite- calcite veinlets cutting grey limestone

**Table 3: Dan Property – Geochemical Results**

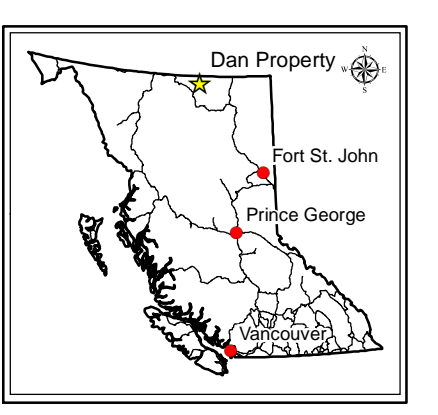
Sample ID	Location		F ppm	Ba Ppm
	Easting	Northing		
NS10-BL01	359624	6624768	>10000	2359



**Stikine Energy Corp.**  
**Dan Property**  
 Figure 4  
 2010 Sample Locations

20k Mapsheets: 94N073  
 Date: 7/9/2011  
 Projection: UTM10N, NAD83  
 Scale: 1:5,000  
 Path: C:\09-PX-017411\GIS\Dan2010Sample\_D.mxd  
 Drawn By: JHE  
 Checked By: BL  
 Revision #: 0

- Legend**
- × Float
  - o/c
  - ⊕ Bedding
  - sub o/c
  - △ talus
  - Wooded Area
  - Lake
  - Stream
  - x—x—x Beaver Dam
  - Swamp
  - Sand or Gravel Bar
  - Contour
  - Tenure





**Figure 5: Example of fluorite mineralization from sample location NS10-BL01 (Dan 6 Minfile occurrence), Dan property.**

## **7. SAMPLING METHOD AND APPROACH**

At each map station a GPS waypoint was recorded, providing a precise location and a representative grab sample or composite chip sample was collected. A total of 8 samples were collected and each sample was described, labelled, bagged and closed with a security strap. A representative piece of the sample was flagged with the sample number, and left clearly visible at the sample site. One of the rock samples taken in the field by Bob Lane, P.Geog was shipped to Acme Analytical Labs.

## **8. SAMPLE PREPARATION, ANALYSES AND SECURITY**

All samples were packed into large rice bags and driven from the site in a 4x4 pick-up truck and placed in a locked private garage prior to shipping. Samples selected for analysis were then couriered to Vancouver for analysis. Geochemical analysis was performed by Acme Labs, who implements a quality system compliant with the International Standards Organization (ISO) 9001:2000 Model for Quality Assurance.

Each rock sample was jaw crushed until 70% passed through a -10 mesh (2 mm) screen. The sample was split and a 250 g riffle split sample was then pulverized in a mild-steel ring-and-puck mill until 85% passed through a 200 mesh (75  $\mu$ m) screen. Sample NS10-BL01 was analyzed using Acme's Group 1DX3 (Aqua Regia digestion by ICP-MS) and 2AD4 (NaOH fusion, analysis by specific ion electrode) methods.

The trace element analysis comprises two separate analyses. Rare earth and refractory elements are determined by ICP mass spectrometry following a Lithium metaborate / tetraborate fusion and nitric acid digestion of a 0.2g sample. In addition a separate 0.5g split is digested in Aqua Regia and analysed by ICP Mass Spectrometry to report the precious and base metals. NaOH fusion analysis was done for F ions.

## **9. INTERPRETATION AND CONCLUSIONS**

The amount of work conducted in 2010 was very limited, but did confirm that weakly to well-mineralized zones fluorite are present in several areas on the Dan property. Mineralization, consisting of fluorite-calcite-barite in veins fractures, stockworks and narrow dilational breccias, appears to occur within the upper chert-bearing section of the Dunedin Formation.

## **10. RECOMMENDATIONS**

Follow-up exploration of the Dan property is recommended to better understand the potential of this property. Additional prospecting, mapping and sampling of the showings is recommended. It is anticipated that 4-5 days worth of work by a two-person team would provide an adequate assessment of the known mineralized area of the property. The estimated cost of the recommended program is approximately \$25,000.

**11. ITEMIZED COST STATEMENT – DAN PROPERTY**

Exploration Work type	Comment	Days			Totals
<b>Personnel (Name) / Position</b>	<b>Field Days</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>	
Bob Lane, Geologist	Aug 15/10, Sep 14/10	1.0	\$650.00	\$650.00	
Brian Kornichuk, Assistant	Aug 15/10	0.5	\$250.00	\$125.00	
				\$650.00	\$650.00
<b>Office Studies</b>	<b>List Personnel</b>				
Bob Lane	Project Preparation	0.5	\$650.00	\$325.00	
				\$325.00	\$325.00
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>	
Acme Analytical Labs	Whole Rock and Trace Element	1	50	\$50.00	
				\$50.00	\$50.00
<b>Other Operations</b>	<b>Clarify</b>	<b>Units</b>	<b>Rate</b>	<b>Subtotal</b>	
Courier Costs	DHL	1	\$25.00	\$25.00	
Report Preparation	Plateau Minerals Corp.	2	650.00	1300.00	
				\$1,325.00	\$1,325.00
<b>Transportation</b>		<b>Units</b>	<b>Rate</b>	<b>Subtotal</b>	
Travel to/from Field (B.Lane)		0.4	\$650.00	\$260.00	
Meals – Travel		1.0	130.00	\$130.00	
Fuel for Vehicles	One 4x4 Pickup	1.0	\$200.00	\$200.00	
Kilometre Charges – Vehicles	One 4x4 Pickup	1,100	\$0.65	\$715.00	
				\$1,305.00	\$1,305.00
<b>Accommodation &amp; Food</b>		<b>Units</b>	<b>Rate</b>	<b>Subtotal</b>	
B. Lane – Liard River Adventures G/O	Aug 14	1.00	\$205.00	\$205.00	
B. Kornichuk - Liard River Adventures G/O	Aug 14	1.00	\$205.00	\$205.00	
W. Luck – Liard River Adventures G/O	Aug 14	1.00	\$205.00	\$205.00	
				\$615.00	\$615.00
<b>Helicopter</b>		<b>Units</b>	<b>Rate</b>	<b>Subtotal</b>	
Hours Flown For Dan Project (incl Jet Fuel)	Interior Helicopters (West Luck – 206)	2.1	\$1,482.00	\$3,112.20	
				\$3,112.20	\$3,112.20
<b>Equipment &amp; Supplies</b>		<b>Units</b>	<b>Rate</b>	<b>Subtotal</b>	
IPL - Prince George	Rice Bags, Poly Bags, Zip Ties, Crack Hammers, Chisels, PPE, F	1.00	\$100.00	\$100.00	
				\$100.00	\$100.00
<b>TOTAL Expenditures</b>					<b>\$7,482.20</b>



## **12. REFERENCES**

Gjelsteen, T. and Smith, F.J. (1973): Geological Report on the Dan Claim Group, Liard Mining Division; Ministry of Energy, Mines and Petroleum Resources, Assessment report 4205.

Minfile Number: 094N 005, Dan 6

Minfile Number: 094N 004, Dan 32

Minfile Number: 094N 006, Dan 39

Minfile Number: 094N 007, Dan 48

### 13. STATEMENT OF QUALIFICATIONS

I, Robert (Bob) A. Lane, PGeo, residing in Prince George, B.C., do hereby certify that:

1. I am currently employed as a consulting geologist by Plateau Minerals Corp, located at #7 – 1750 S. Quinn Street, Prince George, British Columbia, Canada, V2N 1X3.
2. I obtained a Master of Science degree with Specialization in Geology in 1990 from the University of British Columbia.
3. I have worked as a geologist for more than 20 years since my graduation from university.
4. I am a Professional Geoscientist (PGeo) registered with the Association of Professional Engineers and Geoscientists of British Columbia, license #18993, and have been a member in good standing since 1992.
5. I participated in the 2010 exploration program that took place in August and September, 2010. This report presents and summarizes the data acquired during the 2010 field season.
6. I am a co-author of this report on the Dan project entitled "2010 Geological & Geochemical Report on the Dan Property" dated July 8, 2011.

Dated this 8th day of July, 2011, at Prince George, British Columbia.



Robert (Bob) A. Lane, MSc, PGeo

## STATEMENT OF QUALIFICATIONS

I, Bethany Jacobson, GIT, residing in Prince George, B.C., do hereby certify that:

1. I am currently employed as a consulting geologist by Plateau Minerals Corp, located at #7 – 1750 S. Quinn Street, Prince George, British Columbia, Canada, V2N 1X3.
2. I have worked as a geologist for 3 years.
3. I am a Geologist in Training (GIT) registered with the Association of Professional Engineers and Geoscientists of British Columbia, license #151525.
4. I am a co-author of this report on the Dan project entitled “2010 Geological & Geochemical Report on the Dan Property” dated July 8, 2011.

Dated this 8th day of July, 2011, at Prince George, British Columbia.



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Bethany Jacobson, GIT

**APPENDIX A**

**2010 LABORATORY CERTIFICATES**



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

**Client:** **Stikine Energy Corporation**  
490 - 1122 Mainland St.  
Vancouver BC V6B 5L1 Canada

Submitted By: Bob Lane  
Receiving Lab: Canada-Vancouver  
Received: September 01, 2010  
Report Date: September 24, 2010  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN10004309.1

### CLIENT JOB INFORMATION

Project: NEBC Frac  
Shipment ID:  
P.O. Number  
Number of Samples: 1

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Stikine Energy Corporation  
490 - 1122 Mainland St.  
Vancouver BC V6B 5L1  
Canada

CC: Scott Broughton  
John Mirko

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	1	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX3	1	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
2A04	1	NaOH fusion, analysis by specific ion electrode	0.2	Completed	VAN

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Acme Analytical Laboratories (Vancouver) Ltd.  
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

**Client:** Stikine Energy Corporation  
 490 - 1122 Mainland St.  
 Vancouver BC V6B 5L1 Canada

**Project:** NEBC Frac  
**Report Date:** September 24, 2010

**Page:** 2 of 2 Part 1

# CERTIFICATE OF ANALYSIS

VAN10004309.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
NS10-BL01	Rock	4.59	1.0	0.8	16.6	6	0.1	2.1	0.5	42	<0.01	9.5	0.8	0.6	0.1	162	0.4	0.8	<0.1	<2	30.62



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 490 - 1122 Mainland St.  
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**Project:** NEBC Frac  
**Report Date:** September 24, 2010

**Page:** 2 of 2 Part 2

**CERTIFICATE OF ANALYSIS**

**VAN10004309.1**

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	2A F	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	F	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	10	
NS10-BL01	Rock	0.001	<1	1	0.08	2359	<0.001	496	0.07	0.014	0.03	<0.1	<0.01	1.5	<0.1	0.05	<1	<0.5	<0.2	>10000



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**Project:** NEBC Frac  
**Report Date:** September 24, 2010

**Page:** 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN10004309.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Pulp Duplicates																					
REP G1	QC	<0.1	7.1	11.0	53	0.1	4.6	4.9	622	2.13	4.1	1.6	3.7	5.5	63	<0.1	0.2	0.1	41	0.52	
Reference Materials																					
STD DS7	Standard	20.3	105.4	70.2	393	0.9	55.1	9.2	599	2.33	51.9	5.0	63.7	4.7	70	6.4	6.0	4.8	82	0.94	
STD DS7	Standard	20.1	104.4	68.1	393	1.0	54.8	9.1	603	2.32	51.1	4.9	67.4	4.7	71	6.6	6.1	4.7	82	0.92	
STD STSD-1	Standard																				
STD STSD-1	Standard																				
STD STSD-1 Expected																					
STD DS7 Expected		20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93	
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																					
G1	Prep Blank	<0.01																			
G1	Prep Blank		0.1	7.1	10.3	50	0.1	4.3	4.7	610	2.05	3.9	1.6	6.7	5.2	60	<0.1	0.2	0.2	39	0.47





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**Project:** NEBC Frac  
**Report Date:** September 24, 2010

**Page:** 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN10004309.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	2A F	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	F	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	10	
Pulp Duplicates																				
REP G1	QC	0.092	12	14	0.63	212	0.136	<1	1.01	0.078	0.54	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	290
Reference Materials																				
STD DS7	Standard	0.081	12	180	1.02	389	0.117	41	0.98	0.090	0.42	3.6	0.23	2.4	3.9	0.20	5	3.5	1.5	
STD DS7	Standard	0.082	12	179	1.01	389	0.115	38	0.97	0.090	0.42	3.7	0.24	2.4	3.8	0.20	5	2.7	1.5	
STD STSD-1	Standard																			660
STD STSD-1	Standard																			780
STD STSD-1 Expected																				950
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08	
BLK	Blank																			13
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																				
G1	Prep Blank																			
G1	Prep Blank	0.089	11	14	0.61	203	0.131	<1	0.94	0.073	0.52	<0.1	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2	300