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describing

ASSESSMENT REPORT

HAND TRENCHING AND DIAMOND DRILLING

at the

DEER PROPERTY

Deer 1-20 YC54938-YC54957 21-38 YC56685-YC56702 39-49 YC56976-YC56986

NTS 116B/09 Latitude 64°44'N; Longitude 138°12'W

located in the

Mayo Mining District Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

SOUTHAMPTON VENTURES INC. and STRATEGIC METALS LTD.

by

Daniel Gregory B.Sc., GIT November 2008

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INTRODUCTION

The Deer property contains sedimentary rocks that are locally enriched with nickel, molybdenum and zinc. It is located in north-central Yukon and is owned by Strategic Metals Ltd. This property and seven others in northern Yukon are under option to Southampton Ventures Inc. as part of the NiMo Project. Southampton Ventures can earn a 100% interest by performing exploration on the properties and making certain cash and stock payments to Strategic.

This report describes exploration work that was conducted between the dates of May 26 and June 3, 2008 by Archer, Cathro & Associates (1981) Limited on behalf of Southampton Ventures. The work was supervised by the author and consisted of hand trenching and diamond drilling. The author's Statement of Qualifications appears in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Deer property comprises 49 contiguous mineral claims located in north-central Yukon Territory on NTS map sheet 116B/09 at latitude 64° 44'N and longitude 138° 12'W (Figure 1). The claims are registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim data are listed below while the locations of individual claims are shown on Figure 2.

Claim Number	Grant Number	Expiry Date*
Deer 1-20	YC54938-YC54957	February 22, 2012
21-38	YC56685-YC56702	February 22, 2012
39-49	YC56976-YC56986	February 22, 2012

^{*} Expiry dates do not include 2008 work which has not been filed for assessment credit.

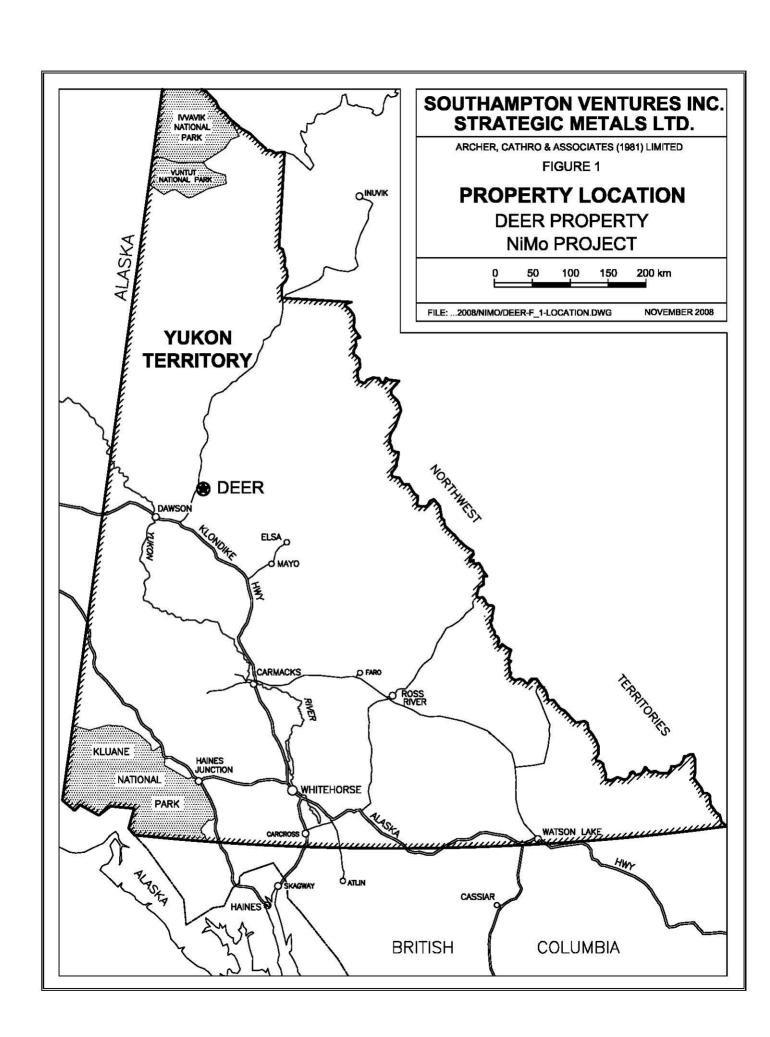
The Deer property is located 88 km northeast of Dawson City and is accessible via helicopter. Dawson City is situated 536 km by road north of Whitehorse.

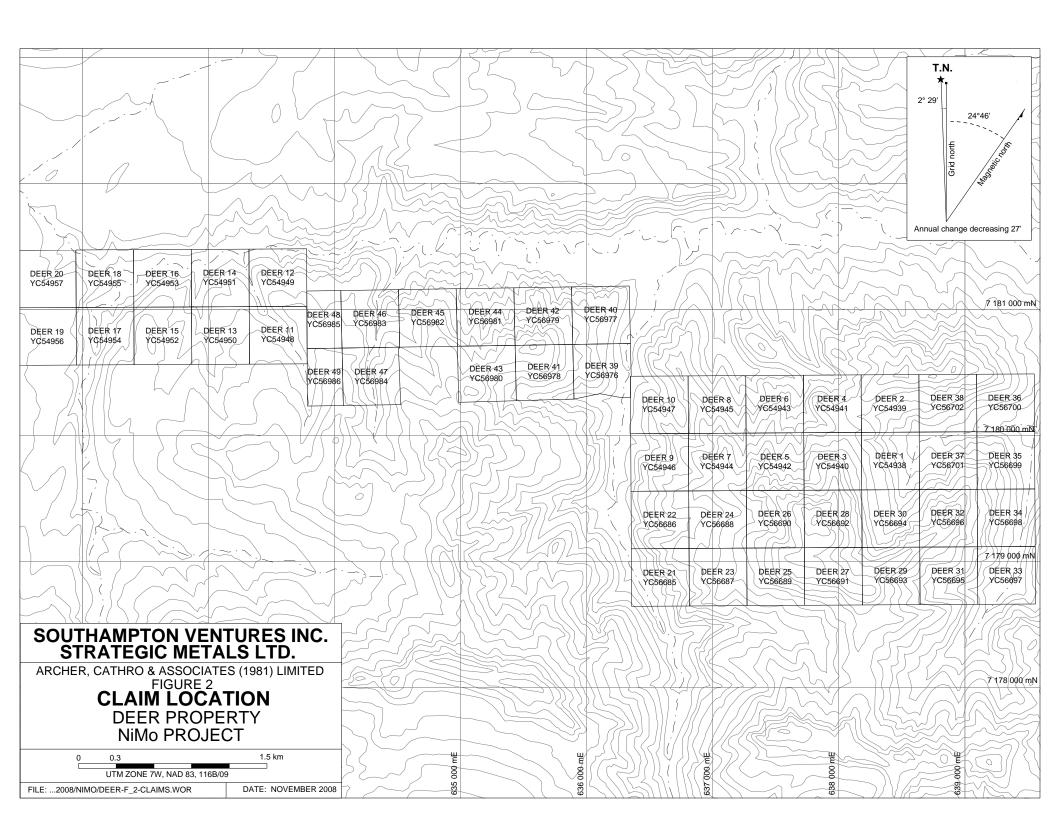
In 2008, daily access to the property was provided by a Bell 206L helicopter operated by Fireweed Helicopters Ltd. from a temporary base at a camp located at 131 km on the Dempster Highway. Drill equipment was mobilized to and from the property with Bell 204 and Bell 206L helicopters, also operated by Fireweed Helicopters.

HISTORY

The area currently covered by the Deer property was originally staked as the Rein claims by the Blackstone Project (Union Miniere Explorations and Mining Corporation Ltd. and Shell Canada Resources Ltd.). That project conducted soil sampling and mapping between 1976 and 1978.

Milchem Inc. optioned the Rein claims in 1979 and built a road to the property. In 1980 it conducted trenching and percussion drilling (21 holes for a total of 906 m). Milchem's work focussed on barite mineralization and evaluated it's suitability for use as a drill mud additive by the oil industry.





In 1994 Pendisle Resources Inc. (a predecessor to Blackstone Resources Ltd.) optioned the Rein claims. Equity Engineering Ltd. carried out a small exploration program on behalf of Pendisle.

In 1995 Blackstone Resources Ltd. reanalyzed 2195 soil sample and 62 rock sample pulps that had been collected and archived by a previous owner. Based on the results from those reanalyses, Blackstone staked additional claims around its original 16 claim block. In 1996 it conducted an extensive program comprising geological mapping, prospecting and soil sampling.

Glenhaven Resources Ltd. optioned a 60% interest in the property in 1997 and completed 12 diamond drill holes totalling 587 m later that year. In 1998 Blackstone carried out additional geological mapping, prospecting and soil sampling and completed 14 diamond drill holes totalling 832.2 m. The primary focus of many of these holes was the barite that had previously been examined by Milchem. The barite horizon is located along the contact between the Earn and Road River Groups.

No further work was completed on the property and many of the claims were allowed to lapse before Strategic Metals Ltd. staked the Deer claims in December 2006.

GEOMORPHOLOGY

The Deer property covers a north facing slope within the Ogilvie Mountains. The property is drained by tributaries of Lomond Creek, which ultimately flows into the Arctic Ocean via the Hart, Peel and Mackenzie Rivers.

Local elevations range from 1095 to 1675 m. Outcrop is found along steep hillsides and deeply incised canyons. Vegetation consists of stunted spruce, buckbrush, moss and grass below 1400 m and open slopes at higher elevations.

REGIONAL GEOLOGY

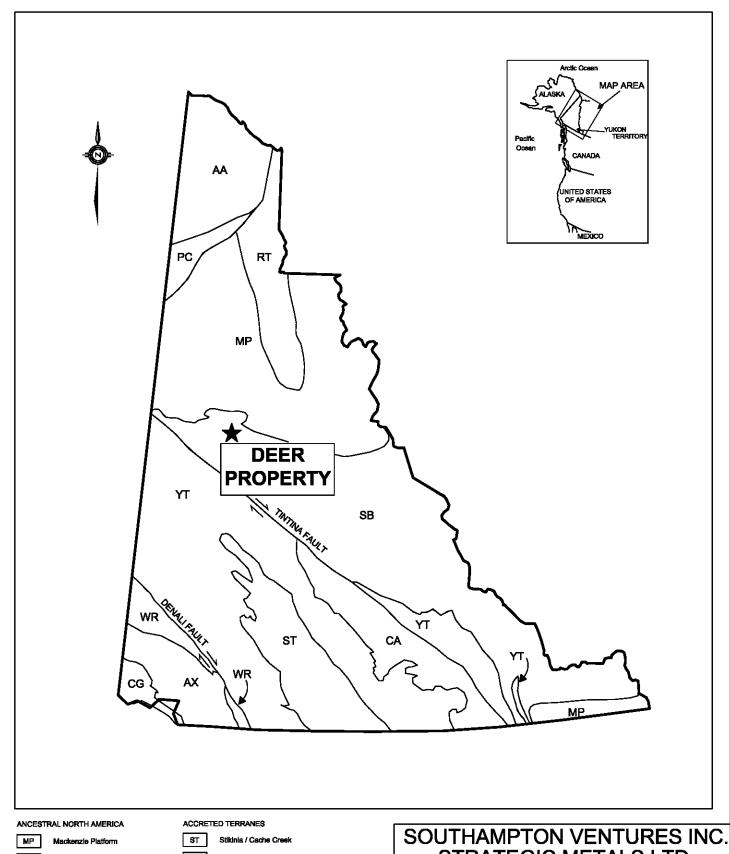
The Deer property lies within an east-west trending band of Proterozoic to Devonian sedimentary rocks that are a part of the Selwyn Basin tectonic element. Rocks in the area are deformed by a series of east-west trending, south dipping thrust faults and related open folds (Figure 3). Approximately 5 km south of the property the Dawson Fault places Upper Proterozoic to Lower Cambrian Hyland Group rocks against Ordovician to Silurian Road River Group strata (Green and Roddick, 1972).

The following table summarizes the main lithologies in the Deer area from youngest to oldest (Thompson et al., 1995).

Table I: Regional Lithological Descriptions

QUATERNARY Fluvial silt, sand and gravel.

-UNCONFORMITY-



SB

RT Richardson Trough

TERRANES Displaced Co

AA Arctic Alaska

CA

PC

Yukon-Tanana / Silde Mountain

WR Wrangellia

CG Chugach

STRATEGIC METALS LTD.

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED FIGURE 3

TECTONIC SETTING DEER PROPERTY NiMo PROJECT

200 km

FILE: ...2008\NIMO\DEER\F_3-REGIONAL.DWG

DATE: NOVEMBER 2008

LOWER AND MIDDLE PERMIAN

Jungle Creek Formation: mudstone, calcareous cherty limestone and silty micrite.

-UNCONFORMITY-

MIDDLE TO UPPER DEVONIAN

Earn Group: a conformable marine sequence consisting of upper Imperial Formation and basal Canol Formation. Imperial Formation consists of sandstone, siltstone and shale. The Canol Formation is a sequence of siliceous shale representing a rapid rise of sea level in early Late Devonian.

ORDOVICIAN TO SILURIAN

Road River Group: a 150 to 750 m thick sequence of fossiliferous limestone and calcareous shale.

-UNCONFORMITY-

UPPER PROTEROZOIC TO LOWER CAMBRIAN

Hyland Group: limestone and marble.

-UNCONFORMITY-

LOWER PROTEROZOIC

Wernecke Supergroup: – a conformable marine sequence approximately 13 km thick consisting of basal Fairchild Lake Group, middle Quartet Group and upper Gillespie Lake Group. Fairchild Lake Group is predominantly siltstone and limy siltstone with minor slate and dolostone. Quartet Group is deeper water shale, siltstone and very fine sandstone. Gillespie Lake Group is dolostone and silty dolostone with minor shale and siltstone.

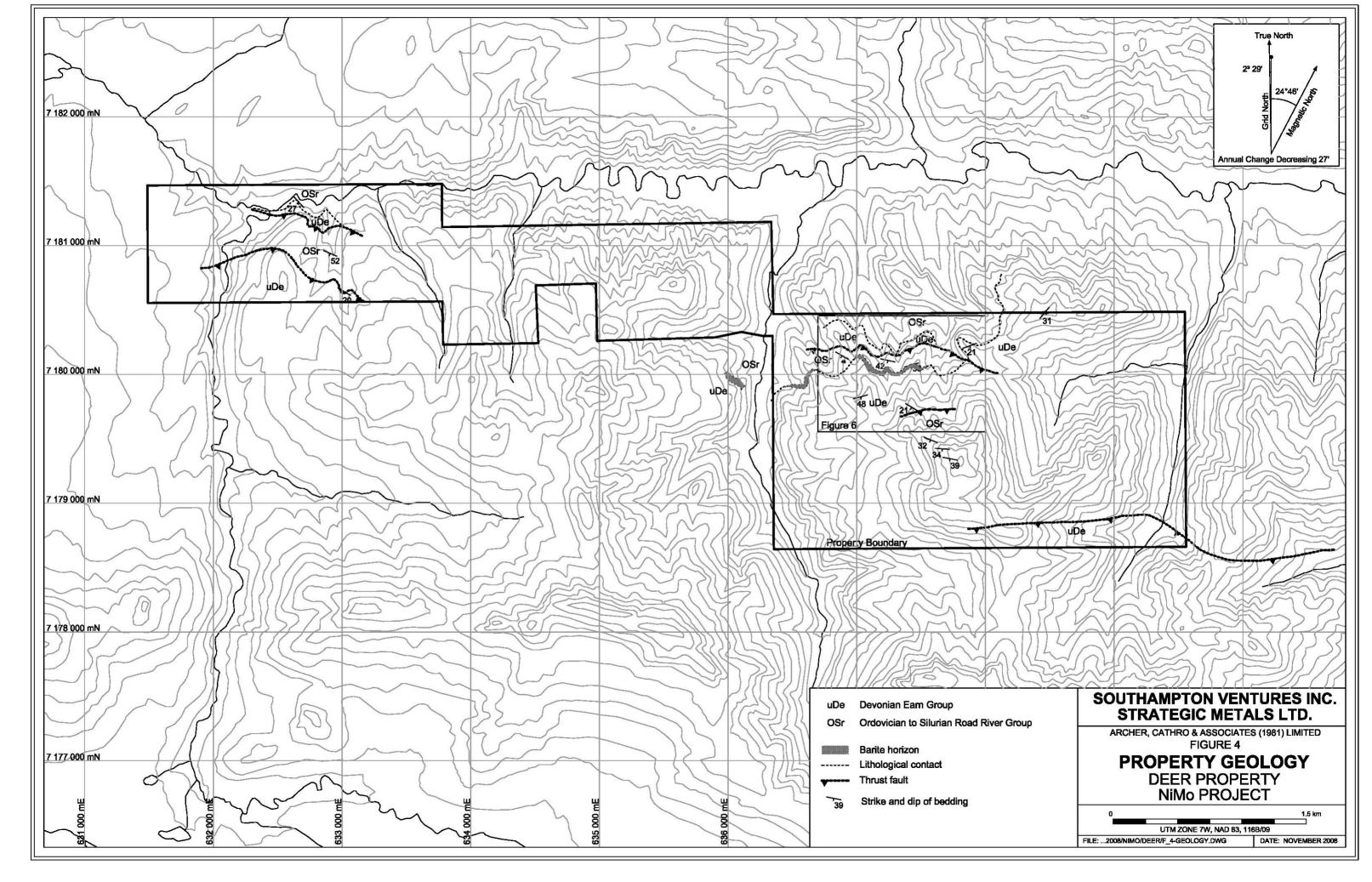
PROPERTY GEOLOGY

The Deer property covers a sequence of shallowly to moderately (20-60°), south dipping shales belonging to the Middle to Upper Devonian Earn Group and the Ordovician to Silurian Road River Group (Figure 4). The stratigraphy is locally displaced by several thrust faults that parallel the nearby Dawson Fault.

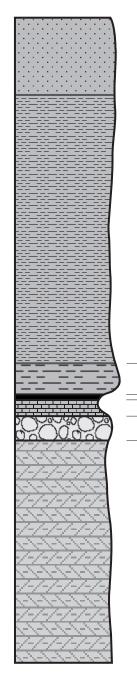
Elsewhere in the district, the contact between the Earn and Road River Groups is marked by a distinct sequence of limestone balls, nodular shale and massive sulphide (Figure 5), however, at the Deer property this contact features a barite-rich unit described in the following section.

MINERALIZATION AND GEOCHEMISTRY

A thin, nickeliferous, massive sulphide layer, known as the NiMo horizon, is occasionally present on a regional basis within the contact zone between the Earn and Road River Groups. At the Deer property, an east striking, south dipping, 3 cm to 30 m thick barite and barium carbonate horizon is found where the prospective contact is observed. Past exploration has traced this horizon for at least 6 km along strike. Diamond drilling in 1997 and 1998 focussed primarily on this horizon at the MM Showing, located near the centre of the eastern cluster of Deer claims (Figure 4). One of these drill holes (REN97-08) intersected 0.39% nickel and 0.41% zinc over 25.50 m, including 1.37% nickel and 0.70% zinc over 5.30 m (Harris et al., 1999).



	IMPERIAL FORMATION	UPPER
EARN GROUP	CANOL FORMATION	MIDDLE TO UPPER DEVONIAN
ROAD RIVER		ORDOVICIAN TO SILURIAN



Phosphatic Chert

NiMo Horizon

─Barite/Barium Carbonate Horizon

Limestone Ball Member

SOUTHAMPTON VENTURES INC. STRATEGIC METALS LTD.

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED FIGURE 5

STRATIGRAPHIC SECTION DEER PROPERTY NiMo PROJECT

not to scale

...2008/NIMO/DEER/F_5-STRAT.CDR

NOVEMBER 2008

The nickel-enriched intersection consisted of bedded barite and barium carbonate that is brecciated and partially replaced by white cryptocrystalline quartz. The breccia matrix is bitumen and dark brown oxide (?) minerals, which presumably carry the anomalous nickel and other metals.

The type model for the current exploration program at the Deer property is based upon a thin massive sulphide horizon reported at the same stratigraphic location at the Nick property, 133 km to the east. The Nick massive sulphide horizon covers an area greater than 80 km² and comprises pyrite, vaesite, melnikovite-type pyrite, sphalerite and wurtzite hosted in a gangue of phosphatic-carbonaceous chert, silica and bitumen (Hulbert et al, 1992). Assays from the Nick horizon average 3.01% nickel, 0.20% molybdenum, 0.82% zinc, 0.82% vanadium, 310 ppb platinum and 150 ppb palladium. Anomalous rhenium (up to 61 ppm), uranium (up to 107.7 ppm), barium (up to 4300 ppm), selenium (up to 2400 ppm) and arsenic (up to 4200 ppm) were also reported.

HAND TRENCHING

Three hand trenches were dug across the Road River/Earn contact for a total length of 21.5 m. One was dug along the section line of the 2008 drilling and two others were dug along strike to the west (Figures 6 and 7). The prospective contact was found in each trench. Samples were taken at 50 cm intervals along the bottom of the trench near the prospective contact and at 1 m along the bottom of the trench for intervals further away from the contact.

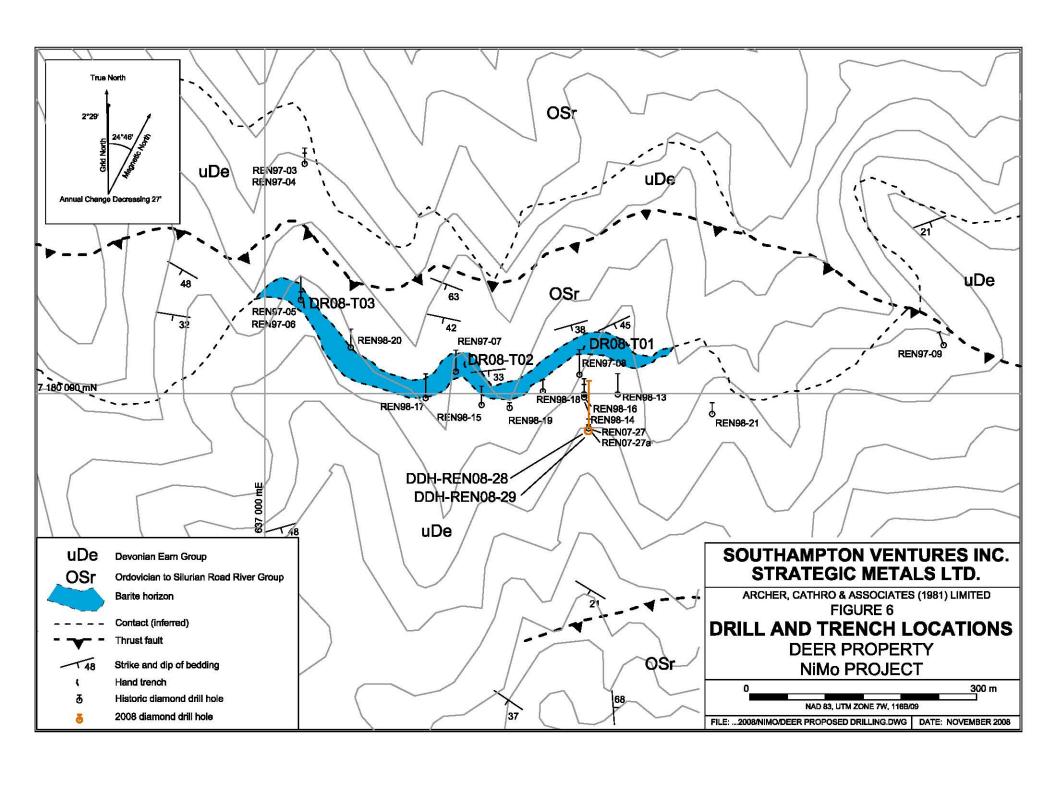
All samples were sent to ALS Chemex in North Vancouver. All chip samples were dried and fine crushed to better than 70% passing 2 mm, then a 250 g split was pulverized to better than 85% passing 75 microns. A portion of the fine fraction of each chip sample was then digested in aqua-regia and the resulting solution was analyzed for 35 elements by inductively coupled plasma (ICP) and atomic emission spectroscopy (AES) using procedure ME ICP-41. Certificates of Analysis are found in Appendix II.

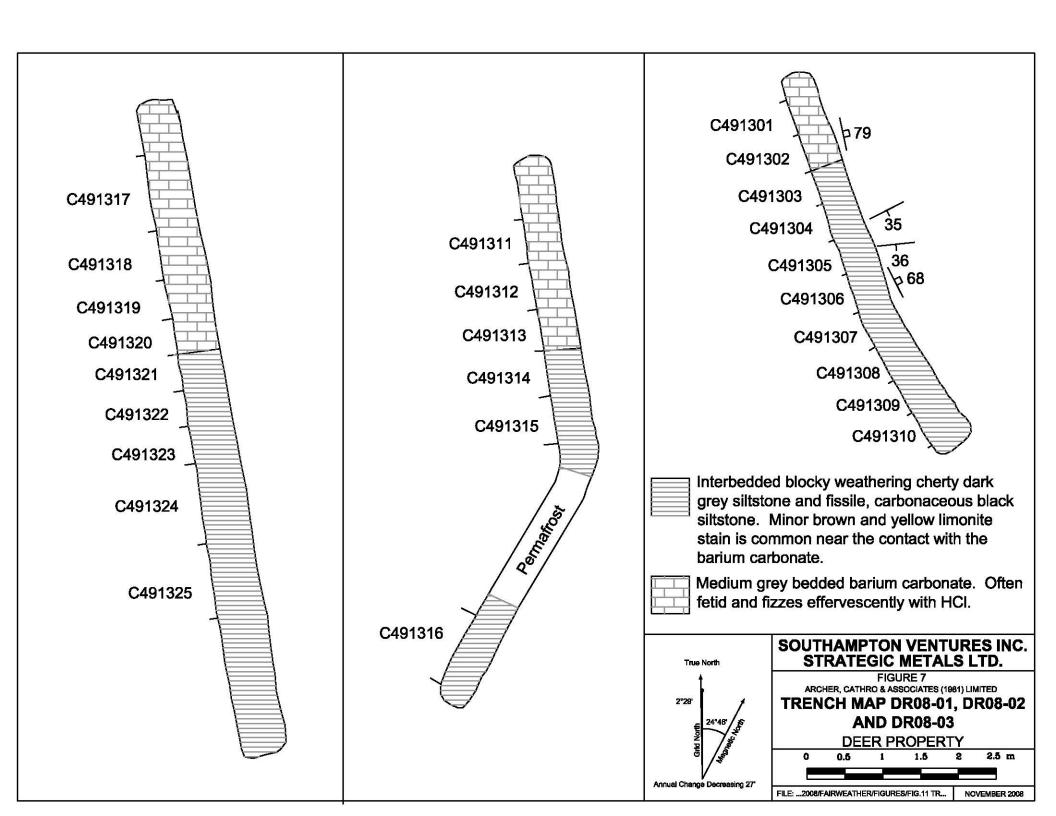
The only significant results were found in trench DR08-T02 where a 50 cm chip sample taken of Earn group shale immediately above the contact with the barium carbonate horizon returned geochemical values of 1355 ppm Ni, 185 ppm Mo and 2900 ppm Zn.

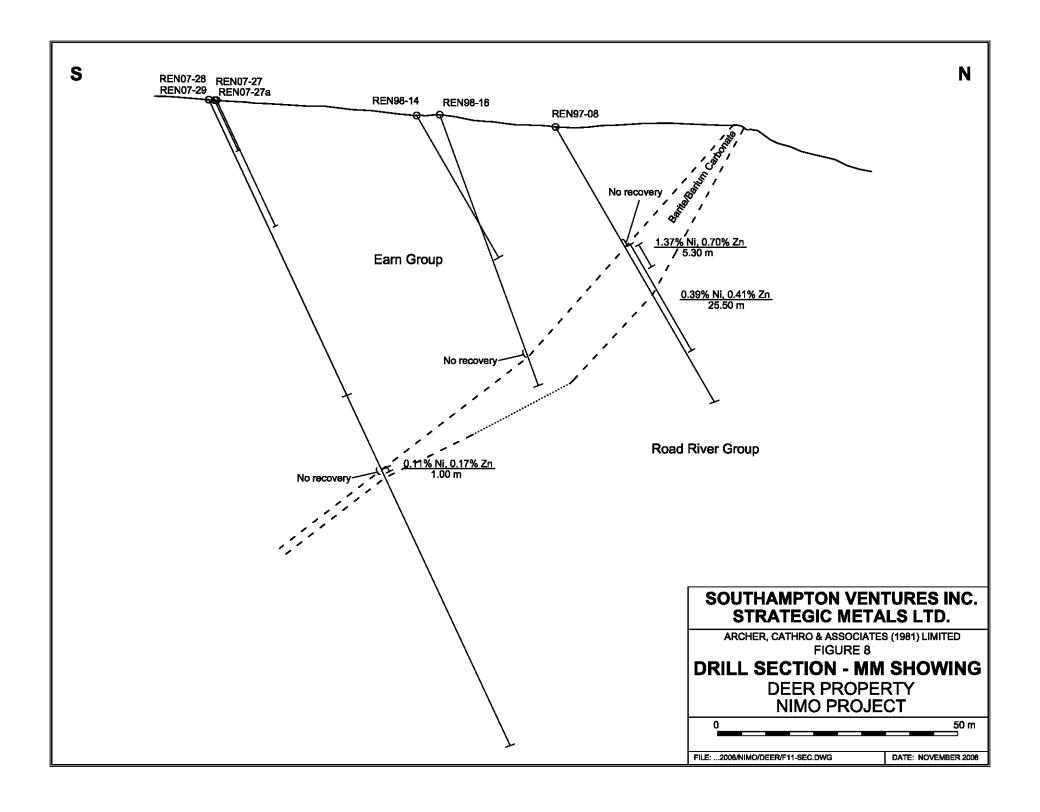
DIAMOND DRILLING

Drilling was conducted between May 26 and June 3, 2008 by Orofino Drilling Inc. of Oliver, BC. The work was completed with a Zinex A5 B20 diesel powered drill using NQ2 equipment. A total of 216.41 m of diamond drilling were completed in 2 holes (Figure 7). Drilling was supported by a helicopter based at the Dempster camp site, located 26 km to the north on the Dempster Highway.

The 2008 holes were designed to test the barite horizon along a section line that included previously drilled holes (Figure 8). Poor ground conditions caused the first hole to be abandoned. A second hole was collared 1 m to the west, it intersected the prospective stratigraphy at 84.93 m, unfortunately, core recovery was poor across this interval. The best







sample was taken below the barium carbonate horizon and graded 0.11% Ni and 0.17% Zn across 1 m. Drill data for individual holes are listed in Table II while geological and geotechnical logs are in Appendix III.

Geologically and mineralogically favorable intervals from each hole were transported by helicopter to the Chapman Lake airstrip, and then to Whitehorse by truck where they were split in half. One half was sent for analysis and the remaining half was placed in storage. All other core is stored on the property.

Table II: Drill Hole Data

Hole	Easting	Northing	Azimuth	Angle	Depth (m)
DDH-REN08-28	637428	7179953	000°	-65°	67.97
DDH-REN08-29	637428	7179953	000°	-65°	148.44

DISCUSSION AND CONCLUSIONS

Regionally, the nickel-rich NiMo horizon occurs at a predictable stratigraphic location and has demonstrated considerable lateral continuity. These factors, coupled with the horizon's diverse metal suite and consistently high metal value, make it an attractive exploration target.

The favourable horizon has been traced by mapping and sampling for over 6 km along strike on the Deer property. Due to the limited outcrop exposure, surface mapping of the NiMo horizon is difficult. Instead, silt and soil sampling must be used to identify the surface trace of the horizon. Unfortunately, work elsewhere in the region has shown that sampling of surficial material is not a reliable method for predicting the thickness of the NiMo horizon. Thus, further drilling is recommended to test down dip and along strike of the MM Showing and to explore other geochemically anomalous areas.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Daniel Gregory, B.Sc. GIT.

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 - 1995 Geology, North Fork Pass (116B/09), Yukon Territory; Geological Survey of Canada, Open File 2849.

APPENDIX I STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Daniel Gregory, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Vancouver, British Columbia, do hereby certify that:

- 1. I graduated from the University of British Columbia in 2007 with a B.Sc. (Hons.) in Geology.
- 2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory.
- 3. I have personally participated in the fieldwork reported herein.

Daniel Gregory B.Sc., GIT

APPENDIX II CERTIFICATES OF ANALYSIS



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: STRATEGIC METALS LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED

1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1 Finalized Date: 30-JUN-2008

Account: MTT

CERTIFICATE VA08078801

Project: NIMO DEER

P.O. No .:

This report is for 25 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-JUN-2008.

The following have access to data associated with this certificate:

JOAN MARIACHER

SAMPLE PREPARATION						
ALS CODE	DESCRIPTION					
WEI-21	Received Sample Weight					
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					

ANALYTICAL PROCEDURES										
ALS CODE	DESCRIPTION	INSTRUMENT								
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES								

To: STRATEGIC METALS LTD.
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: NIMO DEER

Page: 2 - A

Total # Pages: 2 (A - C) Finalized Date: 30-JUN-2008

Account: MTT

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Account: MTT

Page: 2 - B

Project: NIMO DEER

CERTIFICA	ATE OF	ANALYSIS	VA0807880 ²
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Ai	ethod nalyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20
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C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED

1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Total # Pages: 2 (A - C) Finalized Date: 30-JUN-2008

Account: MTT

Page: 2 - C

Project: NIMO DEER

CERTIFICATE	OF	ANALYSIS	VA08078801
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Method Analyte Units LOR	ME-ICP41 Ti % 0.01	ME-ICP41 TI ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	
	<0.01 <0.01 0.02 <0.01 0.01	<10 <10 <10 <10 <10	10 10 <10 <10 <10	45 138 501 244 378	<10 <10 <10 <10 <10	210 301 213 169 120	
	0.01 0.01 0.02 0.01 0.02	<10 <10 <10 <10 <10	<10 <10 <10 <10 10	520 446 703 346 725	<10 <10 <10 <10 <10	174 234 235 184 432	
	<0.01 <0.01 <0.01 0.02 0.01	<10 <10 <10 30 <10	<10 <10 <10 30 <10	53 61 63 1340 1005	<10 <10 <10 <10 <10	237 491 585 2900 1185	
	0.01 <0.01 <0.01 <0.01 <0.01	<10 <10 <10 <10 <10	10 <10 <10 <10 <10	568 58 55 60 51	<10 <10 <10 <10 <10	457 181 504 297 293	
	<0.01 0.01 <0.01 0.01 0.01	<10 <10 <10 <10 <10	10 <10 <10 <10 <10	68 351 415 880 795	<10 <10 <10 <10 <10	418 509 326 204 254	
	Analyte Units	Ti Manalyte Ti W	Analyte Units	Analyte Units	Ti	Ti	Ti



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Page: 1 Finalized Date: 11-JUL-2008

Account: MTT

CERTIFICATE VA08078800

Project: NIMO DEER

P.O. No .:

This report is for 9 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 13-JUN-2008.

The following have access to data associated with this certificate:

AL ARCHER VANCOUVER OFFICE DOUG EATON BILL WENGZYNOWSKI JOAN MARIACHER

SAMPLE PREPARATION						
DESCRIPTION						
Received Sample Weight						
Sample login - Rcd w/o BarCode						
Fine crushing - 70% <2mm						
Split sample - riffle splitter						
Bulk Master for Storage						
Pulverizing QC Test						
Pulverize 1.5 kg to 85% <75 um						
	DESCRIPTION Received Sample Weight Sample login - Rcd w/o BarCode Fine crushing - 70% <2mm Split sample - riffle splitter Bulk Master for Storage Pulverizing QC Test					

	ANALYTICAL PROCEDUR	RES
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ni-AA62	Ore grade Ni - four acid / AA	AAS
Zn-AA62	Ore grade Zn - four acid / AAS	AAS
Mo-AA62	Ore grade Mo - four acid / AA	AAS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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.



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Project: NIMO DEER

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Plus Appendix Pages Finalized Date: 11-JUL-2008

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CERTIFICATE OF ANALYSIS VA08078800

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 AI % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1
C491954		2.56	0.003	<0.005	0.001	0.21	0.75	9	100	0.81	0.05	19.05	53.4	3.57	17.5	13
C491955		0.28	0.004	< 0.005	0.001	0.12	0.73	27	110	0.66	< 0.01	18.25	68	2.54	42	22
C491959		0.74	0.005	< 0.005	0.003	0.48	1.41	9.7	950	1.03	0.18	0.47	1.29	12.45	1.4	35
C491960		1.88	0.003	< 0.005	0.001	0.28	0.47	10	>10000	0.4	< 0.01	16.95	2.72	5.06	2.9	11
C491961		1.68	0.010	< 0.005	0.001	0.16	0.2	17	>10000	0.29	< 0.01	21	1.5	2.6	1.8	9
C491962		1.46	0.011	0.010	0.006	0.78	1.2	111	240	1.35	0.08	14.3	14.2	17.45	15.2	51
C491963		1.98	0.012	< 0.005	0.007	1.07	1.98	30.8	450	1.47	0.08	0.94	14	20.5	2.8	76
C491964		1.40	0.009	0.006	0.006	0.9	1.69	41.5	320	1.2	0.07	1.55	3.74	15.1	1.7	64
C491966		2.90	0.002	0.005	< 0.001	0.07	0.08	8	60	0.09	< 0.01	18.8	0.08	1.05	0.8	4



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Plus Appendix Pages Finalized Date: 11-JUL-2008 **Account: MTT**

Total # Pages: 2 (A - D)

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Project: NIMO DEER

										CERTIF	ICATE (OF ANA	LYSIS	VA080	78800	
Sample Description	Method Analyte Units LOR	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	Hg-CV41 Hg ppm 0.01	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01
C491954		0.5	28.1	1.8	1.92	0.1	0.2	0.16	0.012	0.08	2.3	11.3	3.39	1285	13.15	0.01
C491955		0.9	181	2.17	1.46	0.1	0.2	0.09	0.008	0.1	1.1	10.7	1.47	1195	22.4	0.01
C491959		1.36	11.5	2.09	3.89	0.13	8.0	0.09	0.011	0.56	8.1	6.4	0.14	160	46.3	0.03
C491960		0.26	14	0.49	0.76	0.06	0.3	0.03	< 0.005	0.07	4	2.5	4.05	405	14.95	0.21
C491961		0.18	5.4	0.25	0.61	0.13	0.2	0.03	< 0.005	0.02	2.6	2.2	3.4	228	17.2	0.17
C491962		1.15	96.9	1.89	4.8	0.38	0.7	0.10	0.017	0.38	18.3	7.4	0.36	351	104.5	0.02
C491963		1.91	64.5	2.07	6.03	0.16	1	0.17	0.019	0.66	14.6	7.8	0.26	139	32.2	0.02
C491964		2.17	55	2.16	5.78	0.16	0.9	0.14	0.02	0.58	9.9	7.9	0.24	94	45.1	0.02
C491966		0.13	1.7	0.4	0.21	0.05	< 0.1	< 0.01	0.005	0.02	0.7	0.9	11.85	178	0.84	0.01



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Project: NIMO DEER

Total # Pages: 2 (A - D) Plus Appendix Pages Finalized Date: 11-JUL-2008

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										CERTIF	ICATE	OF ANA	LYSIS	VA080	78800	
Sample Description	Method Analyte Units LOR	Nb N	ME-MS61 Ni ppm 0.2	1 ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2
C491954		0.8	278	270	1.3	3.8	0.017	2.21	2.05	2	9	0.4	1535	0.05	0.07	0.4
C491955	- 1	0.6	528	740	1.1	7.1	0.008	2	2.6	1.8	9	0.3	796	< 0.05	0.05	0.2
C491959	- 1	3.9	46.7	100	5.5	29	0.072	0.59	6.3	2.4	15	0.7	66	0.22	0.14	1.8
C491960	- 1	1	131.5	420	1.6	3	0.033	0.02	2.38	1.6	11	0.4	1660	0.06	0.07	0.4
C491961		0.7	157.5	380	1.3	1.5	0.065	0.05	1.74	0.8	27	0.2	2050	< 0.05	0.06	0.2
C491962		3	958	900	6.9	20.8	0.47	1.66	7.78	4.2	86	1	478	0.17	0.37	1.4
C491963		4.8	90.9	1530	9.3	36.6	0.072	1.15	13.5	3.8	23	1.8	204	0.27	0.17	2.1
C491964	- 1	4.4	51.5	1650	7.5	34.2	0.063	1.61	11.45	4.7	23	2.1	242	0.25	0.16	1.9
C491966		0.3	2.6	200	1.2	0.5	< 0.002	0.02	0.08	0.3	2	< 0.2	46.3	< 0.05	< 0.05	< 0.2



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Account: MTT

Project: NIMO DEER

CERTIFICATE	OF	ANAL VCIC	1/400070000
CERTIFICATE		ANALYSIS	VAUSU/SSUU

										OLIVIII	ICAIL	OI AIVA	LIOIO	VA00070000
Sample Description	Method Analyte Units LOR	ME-MS61 Ti % 0.005	ME-MS61 TI ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ni-AA62 Ni % 0.01	Zn-AA62 Zn % 0.01	Mo-AA62 Mo % 0.001	ME-MS42 Re ppm 0.001	
C491954		0.017	0.59	5.5	207	0.1	42.5	4900	8.7	0.04	0.47	0.002	0.013	
C491955	- 1	0.014	0.82	6.4	298	0.2	58.4	5690	7.3	0.07	0.61	0.003	0.006	
C491959	- 1	0.084	3.85	4.3	747	1.7	8.4	109	29.7	0.06	0.02	0.008	0.058	
C491960	- 1	0.018	2.47	4.9	125	0.2	12.5	222	15.8	0.02	0.02	0.002	0.030	
C491961		0.012	2.32	3.5	82	0.2	6.8	151	11.4	0.03	0.01	0.002	0.054	
C491962		0.067	17	16.5	933	0.7	32.4	1810	31.6	0.11	0.17	0.011	0.381	
C491963	- 1	0.107	2.83	6.8	947	1.7	20.6	407	39.2	0.01	0.03	0.004	0.045	
C491964	- 1	0.096	2.41	10.4	926	0.6	27	215	36.1	0.01	0.02	0.005	0.042	
C491966		< 0.005	0.03	0.5	6	0.1	0.9	18	1	< 0.01	< 0.01	< 0.001	< 0.001	



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Total # Appendix Pages: 1 Finalized Date: 11-JUL-2008

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Project: NIMO DEER

CERTIFICATE OF ANALYSIS VA08078800

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

APPENDIX III

GEOLOGICAL AND GEOTECHNICAL DIAMOND DRILL HOLE LOGS

PROJECT: NiMO

PROPERTY: DEER HOLE: DDH-REN08-28

Easting Northing Elev. Depth (m) Contractor: Orofino 637428 7179953 1375 67.97 Drill: Zinex A5 B20

	SURVEY									
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method			
collar	0	-65								

Core size: HQ / NQ

Cassing depth: (m) out

Drilling dates: May 27-29, 2008

Logged by: D. Gregory

Target: NiMo horizon at contact btwn DMe and OSr

	SUMMARY										
From (m)	To (m)	Interval	Unit	Coments							
0	67.97	67.97	DMe	rods stuck before completion of hole							

SAMPLES							
Numbers: C491954							
Total: 1							
Data cent: June 4 2009							
Date sent: June 4, 2008							

COMMENTS	
Lost most of NQ rods.	

	I			LITHO	LOGY	,				AL	т.	MIN	NERA	LS			SAI	//PLES			Blocks			GEO	TECHNI	CAL		ı		JOIN	TS	\neg
Str	uct.																						R	REC	RC			1				
Туре	Attitude	From (m)	To (m)	Interval (m)	Туре	Unit	Texture	Modifier	Notes:						From (m)	To (m)	Interval (m)	Sample		From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency Attitude	Shape	Roughness	Infilling
		0	12.42	12.42		DMe			dark grey mixture of heavily ground up (silt to sand sized pieces) (~30%) and pebble to 3 cm long pieces of core (~70%) no chlorite alt on pebble and greater sized pieces and rare yellow stain (jarosite?) on fractures.											0.00	6.71	6.71	0.80	11.9225	0.00	0	HW	w				
		12.42	23.86	11.44					dark grey cherty siltstone ~15% heavily fractured/guagey zones with mod to extreme clay alt 3-4 cm away from fractures. Minor yellow (jarosite?) stain on some fractures.											6.71	8.23	1.52	0.85	10.3281	0.00	0	HW	w				
									14.47-14.60 m minor 1 cm wide milky quartz veins @ 5-10 degrees, very erratic and tend to be ~3 cm long pinching and starting again frequently. These veinlets make up ~ 2% of the rock across this int.											8.23	9.75	1.52	0.40	4.10256	0.00	0	нw	w				
									16.17-16.37m minor quartz vein perpendicular. to core axis, ends in fracture zone on either end of the interval. Minor calcite component and slightly erratic vein. By 16.62 m core is much more competent										 	9.75	11.28	1.53	0.56	4.96454	0.00	0	HW	w				
									with only rare heavily fractured and/or gaugey parts 17.15-17.37 m and 17.54-17.91 m light grey calcareous siltstone with 1 mm x 2-3 mm											11.28	12.80	1.52	0.65	5.07813	0.00	0	HW	w				
bec	80								rectangular pieces (10%) possibly bioturbated as rectangles appear to be sub parallel to a 10 degree plane. Minor rusty weathering at beginning and end of the interval.											12.80	14.33	1.53	1.13	7.88555	0.00	0	HW	w				
. <u>v</u>	60								17.00 m a 3 mm wide limonite stained quartz vein @ 30 degrees with minor quartz veins near bye extending into the country rock. Past 16.62 m minor (~ 1% of rock) v. thin										 	14.33	15.85	1.52	1.06	6.6877	0.17	16.04	MW	w				
				0					erratic quartz veins are ~ equally spaced across interval.											15.85	17.37	1.52	1.38	7.94473	0.32	23.19	MW	w	1 70	3	3 A	

•		KIT:	2001							IOLE: I																		п			
<u></u>	*****			LITHO	LOG	Y		-		A	LT.	MII	NERA	LS		1	SAN	IPLES			Block	s	 	GEO REC	TECHNI					JOIN	ITS
, I	Attitude total	From (m)	To (m)	Interval (m)	Туре	Unit	Texture	Modifier	Notes:						From (m)	To (m)	Interval (m)	Sample		From (m)	To (m)	Intvl. (m)	(m)	Percent C	(m)	Percent Ö	Weathering	Hardness	Frequency Attitude	Shape	Roughness
v	52 52								22.44-22.55 m breccia zone? may also be sedimentary structure? Top 2 cm contain ~ 20% quartz veining with limonite stain dipping ~ 38 degrees but somewhat erratic below this light-med grey matrix infiltrating dark grey siltstone along fracture @ 35 degrees (though also somewhat erratic) matrix ~ 15% of rock last 4 cm ~ 4 cm matrix with angular dark grey clasts, apparently being ripped up and replaced(?). Under side of clasts are coated with 1mm (though can be up to 4mm) milky white quartz. Below this 10 cm of erratic somewhat limonitic v. thin quartz veining (-5% of rock).	6										17				6.19048		47.86 45.39			1 60		3 Bk
b	d 55 d 60	<u> </u>			_		4	\perp			\perp	\perp	Ш	_					\perp	18 20				7.44368 6.10478		45.39 57.46			1 70 1 60		3 A 3 A
v	44								zone of quartz veining where dark grey siltstone has changed to dark green/grey colour (minor chlorite alt?). Zone has been silicified and contains ~ 10% quartz veins varying in size from v. thin to 3 cm but all but one less than .5 cm wide. Large veins tend to have a dark red band 3-4 mm thick on the margin of the vein. minor limonite stain in the smallest veins. Veins tend to dip @ 46 degrees but can be v. erratic. Main vein is from 23.51-23.54 m.	•										21				3 4.60162		61.11			1 60		
		23.8	6 24.52	0.66		DMe			mostly fine to coarse sand sized.											23	47 24.	99 1.52	1.06	4.2417	0.38	35.85	FR \	w I	0		
			2 31.09			DMe			dark grey cherty siltstone, heavily fractured with – 20% v. heavily fractured slightly gaugey section of sand to pebble sized pieces of moderate clay alt. in these sections but t. clay alt. outside of these zones. Trace yellow stain (jarosite?) on fractures.	-										24				3.73303		23.23			0		
b	d 51								29.67-30.01 m minor breccia? dip 3 degrees. Contains -80% med-dark grey/green matrix with 20% sub rounded dark grey cherty clast 2mm x 2mm to 4mmx 4mm diameter. 4 cm wide on one side and 2 cm wide on other side with and abrupt (parallel to core axis) offset from one side to the other. 30.56-30.65 m a 1 cm diameter sphere of med grey calcareous siltstone with a mildly limontite halo.											26				7 3.45934 0 4.05817		11.34			1 60		
	+	1	-	l		-	+			1 +		-					††		+	29				4.44588		45.65			0		5,
	1	31.0	9 34.14	3.05		DMe	T		v. heavily ground-up (sand sized) dark grey siltstone			1								31			1	0.58582	1		vw l		0	0	0 A
I		11 01.0	U UT. 14	0.00	II	Pivie				11 1	- 1	- 1	L		I	l	1 1		1 1	31	U-1 34.	1-1 0.10	1 0.20	0.00002	1 0.00	U	~ v v	* *		ı	٥٨

				ITL	HOL	nev				II	AL	т	MIN	IERAI	sII			SAI	MPLES			Blocks		1	GEO	TECHN	ICAI		JI		JOIN	JTS	
Stru	ıct.		1	LIII	HOL	JGT		1	T		AL	÷	IVIIIV	IERAI	-3			SAI	VIFLES	т т		DIOCKS		F	REC		QD				JOIN	113	-
	Attitude	From (m)	To (m)	Interval (m)	,	Туре	Unit	Texture	Modifier	Notes:						From (m)	To (m)	Interval (m)	Sample		From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency Attitude	Shape	Roughness	Infilling
		34.1	4 34.8	4 0).7		DMe			dark grey cherty siltstone with t calcite stringer veins with minor limonite staining on veins.											34.14	35.66	1.52	1.26	3.53337	0.48	38.1	MW					
v	50	34.8	4 35.	3 0.4	46		DMe			interval starts with a 3 cm wide calcite vein with ~ 10% angular dark grey cherty clasts; predominantly on the bottom of the interval. Clasts appear to be ripped up from bottom wall. Rest of the interval is dark grey cherty siltstone with 2% erratic calcite veins with minor limonite stain - tend to trend ~ 40 degrees but may vary significantly. @ 34.98 m 3 mm wide pyrite band @ 31 degrees with jarosite stain on edges.																							
										dark grey cherty siltstone but v heavily broken, pebble sized pieces generally 0.25 cm in diameter but up to 4 cm pieces of core. <1% erratic calcite veins with minor limonitic																							
		35.	3 45.7	2 10.4	42		DMe	ļ		stain.			-		-						35.66		3.05 2.44				15.48	MW			ll		
								+					-		-						38.7°		1.52		1.09356 0.42184			MW			 		
								+													42.6		3.05		0.43745	4		MW			ll		
		45.7	2 50.3	6 4.0	64		DMe			dark grey cherty siltstone with rare calcite stringers and minor limonitic stain. Due to degree of fracture no bedding determinable. 48.21-50.36 accumulated minor white											45.72	2 47.85			2.92581		28.57	MW		1 50	3	3	
								ļ		sulphasalt (?) Coating after coating after a week in the core box.						48.21	50.36	2.15	C491963		47.8	50.29	2.44	1.00	1.98847	0.10	10	MW		1 50	3	3	
V	39	50.3	6 51.4	1 1.0	05		DMe			Calcite breccia with ~8 % angular-subangular dark grey siltstone clasts in long, thin pieces ~ parallel to the core axis. Most clasts in 1st 28 cm of interval (here ~20% clasts). ~23% white subangular to subrounded white calcite clasts ranging from 4 mm to 6 cm in diameter, rest is fine grained calcite matrix with mod limonitic and hemititic stain.						50.36	51.42	1.06	C491954		50.29	9 53.34	3.05	2.63	4.93063	1.35	51.33	FR		2 50	3	3	
		51.4	1 59.9	5 8.9	54		DMe			dark grey cherty siltstone with t limonitic calcite stringers, generally erratic but tends to trend @ 50 degrees minor jarosite on fractures. Increase in veinlets to 5% from 56.39-56.47 m. Most of interval 4-6 cm long pieces but last 3 m mostly pebble sized with minor powdery gauge covering core. From 51.41-52.41 m a minor sulphate rich white coating formed on core after 1 week.						51.42	52.41	0.99	C491964		53.3 <i>4</i> 56.30		3.05 1.52		3.05019 0.72526		18.02			1 50 1 70			

				LITHO	LOG	1				ALT.	М	INE	RALS			SA	MPLES			Blocks			GEO.	TECHNI	CAL				JOIN	ITS	
Stru	uct.																					R	EC	RC	QD .						
Туре	Attitude	From (m)	To (m)	Interval (m)	Туре	Unit	Texture	Modifier	Notes:					From (m)	To (m)	Interval (m)	Sample		From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency Attitude	Shape	Roughness	Infilling
v	42	59.95	60.04	0.09		DMe			light grey fine grained limestone horizon with minor hematite veinlets generally parallel or perpendicular to core axis. Top of the interval is 1 cm wide pyrite horizon with 5% angular DMe clasts (2mm diameter.)	 				59.9	60.0	4 0.09	C491955		57.91	60.05	2.14	0.58	0.96586	0.20	34.48	FR		2 50	3	3	
v	29	60.04	63.12	3.08		DMe			med-dark grey (slightly brown) mildly calcareous siltstone with minor calcite veining with minor limonite on calcite veins.										60.05	63.09	3.04	2.13	3.37613	1.48	69.48	FR		2 60	2	2	
		63.12	63.85	0.73		DMe			dark grey cherty siltstone with -35% 5x3 cm calcareous sub-angular clasts. Clasts have v thin calcite veins. Minor limonite stain around outside of clasts.		-							 	63.09	66.14	3.05	0.48	0.72573	0.10	20.83	FR					
		63.85	66.74	2.89		DMe	<u></u>		cherty siltstone.		<u></u>																				
		66.74	67.97	1.23		DMe			dark grey cherty siltstone with t. erratic calcite veining <1 mm wide with minor limonitic stain.										66.14 66.45	66.45 67.97	0.31 1.52		0.07524 0.64734		0 59.09	FR FR					
							<u> </u>				-				<u> </u>																

PROJECT: NiMo

PROPERTY: DEER HOLE: DDH-REN08-29

 Easting
 Northing
 Elev.
 Depth (m)
 Contractor: Orofino

 637428
 7179953
 1375
 148.44
 Drill: Zinex A5 B20

			SUR	VEY			
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
148.44	0	-65					

Core size: HQ/NQ

Cassing depth: (m) out

Drilling dates: May 30 to June 2, 2008

Logged by: D. Gregory

Target: NiMo horizon at contact btwn DMe and OSr

			SUMI	MARY
From (m)	To (m)	Interval	Unit	Coments
0	82.96	DMe	82.96	
82.96	84.93	DMe	1.97	Barium carbonate horizon
84.93	148.44	Osr	63.51	

SAMPLESNumbers: C491959-C491962

Total: 4

Date sent: June 4, 2008

COMMENTS	

			_	LITHC	LOG	′		_		<u> </u>	ALT	<u>. </u>	М	IINE	RALS	4			SAM	PLES			Blocks				TECHN			_ [JOI	NTS	
Stru	Attitude 51	From (m)	To (m)	Interval (m)	Туре	Unit	Texture	Modifier	Notes:							From (m)		To (m)	Interval (m)	Sample		From (m)	To (m)	Intvl. (m)	RE•	Percent	(m)	Percent ^O	Weathering	Hardness	Frequency	Attitude Shape	Roughness	Infilling
v	61	0	16.99	16.99		DMe			dark grey cherty siltstone with minor quartz stringers (max 1 mm) with minor yellow (jarosite) on rare fractures.	w clay	/											0.00 9.75		9.75			0.00		vw v					
						ļ	ļ‡				‡					-						11.28	12.80	1.52	0.66	43.4	0.00	0	VW V	V			+	ļ
											+			H								14.35		1.50			0.34				1 6	30 2	2 2	ļ
v	37	16.99	17.78	0.79		DMe		i	light-med grey calcareous siltstone interbedded with oolitic texture in last 21 cm of interval (1 mm diameter oolites), oolites are ~30% of this part of the interval. Minor calcite veins (~3% of interval) erratic usually <1 mm wide but can be up to 2 mm. Minor limonitic stain on fractures.													15.85	17.37	1.52	1.29	84.9	0.72	47	MW V	V				
		17.78	23.64	5.86		DMe		1	dark grey cherty siltstone with minor erratic quartz stringers with minor yellow stain on fractures and minor yellow stain on fractures. t clay alt at beginning of interval and mod at end	t -> m	od cla	ay										17.37 18.90 20.42	20.42 21.95		1.37 1.32	90.1 86.3	0.42 0.92 0.87	61 57	MW V	v v	1 8 2 6 2 6	35 2 35 2		
ļļ.				ļ		ļ	 				ļ										ļļ	21.95	23.47	1.52	0.97	63.8	0.10	6.6	MW V	V	2 6	30 2	2 2	<u> </u>
		23.64	23.94	0.3		DMe			series of 3 quartz veins 5, 1.5 and 1.5 cm wide at 23.66, 23.78 and 23.92 m respectively. Milky white and massive. The 5 cm vein is slightly glassy with 1x4 mm milky white lathes. Area between main vein contains ~10% stringer veins connecting 3 main veins together. Minor limonization along veins and dark green discolouration (chloritization or serpentinization?) of dark grey cherty siltstone host rock.													23.47	24.49	1.02	1.00	98	0.41	40	MW V	v	1 5	50 2	2 2	
bed	84	23.94	33.93	9.99		DMe			dark grey cherty siltstone with minor erratic quartz veining with mod limonite within the veins and t yellow stain on fractures 28.76-29.38 m contains -2% quartz veining with limonitic stained quartz veins @ 4 degrees and 1-2 mm 1-2 mm wide. 30.97-31.22 28% med-dark grey interbeds. ~5-10 cm wide beds.	t-w cla	ay											24.49	26.52			39.4	0.31	15			1 8	30 3	3 3	
V	4		ļ	ļ		ļ	 T]	@ 32.46 m a 1 cm wide white vein with	 	+										[]	26.52	28.04	1.52	0.94	61.8	0.00	0	MW V	v			+	ļ
v	27	ļ		ļ		DMe			limonite on the margins.		ļ		_ _				_					28.04	29.57		1.01		0.21		FR V			50 2		
 -				 		 	++	-			+			+	-+						 	29.57 31.09		1.52 1.52			0.72				1 5 1 5		2 2	
							\Box	1				+	\top	\Box	\top	1	\top				\Box	32.61	34.14				0.36					50 3		

	_		LITHO	LOGY	<u>'</u>				ALT.	MII	NER	ALS			SAN	IPLES		Block	s				TECHN					JOIN	TS	
Struct	-		_																	-	REC		RQ	D					1	
Type	From (m)	To (m)	Interval (m)	Туре	Unit	Texture	Modifier	Notes:					From (m)	To (m)	Interval (m)	Sample	From (m)	To (m)	(m) Jutul	((m)	Percent	(m)	Percent	Weathering	Hardness	Frequency Attitude	Shape	Roughness	Infilling
	33.93	36.58	2.65		DMe			dark grey cherty siltstone with minor erratic limonitic quartz stringers. Calcite veins occur @ 34.04 m (1.5 cm wide @ 35 degrees); @ 34.32 m (2 cm wide @ 26 degrees); @ 34.88 m (0.5-0 mm pinch and swell vein @ 34 degrees) @ 35.36 m (5 cm @ 42 degrees - breccia with 20 % angular 2-5 mm dark grey cherty siltstone clasts) @ 36.40 m a 0.5 cm wide quartz vein @ 61 degrees and @ 36.59 m a 0.6 cm wide quartz vein @ 41 degrees.									34	14 35	66 1.	52	1.20	78.9	0.40	26	R W	<u></u>	1 50	2	2	
	36.58	39.16	2.58		DMe			dark grey cherty siltstone with minor forest green stain on fractures. Rare 1 mm wide quartz veining with minor limonite. Most of interval broken into pebble sized pieces or smaller. Rare 10 cm sticks.									35	66 37	.18 1.	52	0.74	48.7	0.44	29	R W	,	1 60	2	2	
	39.16	39.3	0.14		DMe		1	First 7 cm are calcareous breccia ~90% white -> light pink calcite clasts within a med to dark grey matrix. Next is nearly massive calcite with rare grey matrix stringers filling erratic fractures in the calcite. At bottom of interval subrounded calcite clasts 2 mm x 3 mm -> 1cm x 1cm with dark grey matrix. Clasts not aligned.									37	18 38	.71 1.	53	0.88	57.5	0.40	26	₹R W	,				
		40.15			DMe			quartz breccia with ~ 70% dark grey cherty siltstone clasts ranging from 1 mm x 1 mm angular clasts to 6x3 cm clasts. Matrix is limonitic fine grained quartz.										71 40									1 60	2		
		40.13			DMe			dark grey cherty siltstone with minor thin erratic quartz vein and rare 3 mm wide erratic (but usually ~ 30 degree) calcite veins. (~4%)											75 1.		0.80						1 00			
	40.6	43.98	3.38		DMe			dark grey cherty siltstone with rare yellow stained thin quartz veinlets v. heavily fractured range from no clay alt at beginning of interval to s clay alt. by end of int.									41	75 43	28 1.	53	0.16	10.5	0.00	0	R W	,				
		44.09			DMe			white massive calcite vein with minor pinkish hue and t. limonitic stain on margins of vein. dark grey cherty siltstone with 1% quartz	 ļ			† 					 43		81 1.		0.63									
	44.09	55.89	11.8		DMe			stringers with minor calcite to 46.02 m. t. limonite stain on fractures. @ 54.76 a 2x3 cm limonite clot.									49 50	33 47 35 49 38 50 90 52	33 1. 85 1. 38 1. 90 1. 43 1.	52 53 52 53	1.37 1.14 1.23 1.21 1.13	75 80.4 79.6 73.9	0.62 1.02 0.55 0.75	41 67 36 49	R W R W R W		1 50 1 60 1 60 2 50 2 50	2 2 2 3	2 3 3 3	
						\vdash	\dashv			\vdash	+	+					52 53		.95 1. .47 1.		1.12	73.7 0		43 0	R W	<u></u>	2 60	3	3	

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Stru	ict.			LITHO	LOG	′		1		ALT.		MIN	IERA	LS			SAM	IPLES	╂	Blocks		RE		TECHN		- 1	-		JOII	NTS	\dashv
Type	Attitude	From (m)	To (m)	Interval (m)	Type	Unit	Texture Modifier	Notes:							From (m)	To (m)	Interval (m)	Sample	From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Hardness	Frequency	Shape	Roughness	Infilling
		55.89	56.84	0.95		DMe		dark grey cherty siltstone with 1% quartz stringers erratic but generally 70-80 degrees. 56.54-56.62 m med grey calcareous horizon.											55.47	57.00	1.53	1.32	86.3	0.98	64	FR W	,	1 5	0 3	3	
		56.84	58.7	1.86		DMe		dark grey cherty siltstone with minor erratic calcite veining. @58.21 m 1 cm wide calcite vein with minor angular dark grey clasts and minor limonite on edges of vein dark grey cherty siltstone with t. erratic	w clay										57.00	58.52	1.52	1.34	88.2	0.20	13	FR W	/	2 6	0 3	3	
		58.7	60.87	2.17		DMe	ļĻ	calcite stringers.		ļ		 							 58.52	60.05	1.53	1.30	85	0.47	31	FR W	<u>/ </u>	2 5	0 з	3	
bed	64	60.87	62.98	2.11		DMe		med grey calcareous siltstone with t. erratic calcite stringers, generally ranging from 10- 20 degrees											60.05					1.24			,	2 5		3	
		62.98	69.58	6.6		DMe		dark grey cherty siltstone with t erratic limonite stained quartz veinlets; generally dip ~20 degrees. Minor limonite +/- jarosite stain on fractures @64.90 m a 6x4 cm angular med, grey siltstone clast with calcite stringers @ 58 degrees across clast last 25 cm contain vertical calcite veins/stringers ~2% of rock. 1 main vein 6 mm wide with minor limonite stain, rest very thin stringers trend ~75 degrees.						!					63.09		1.53			0.43				2 6			
																			64.62	66.14	1.52	1.94	128	0.37	24	FR W		1 5	0 3	3	
		ļ				 	 -			 	ļ	 + -					 		 66.14		1.53 1.53			0.50				1 5	0 3	3	
		69.58	70.71	1.13		DMe		med -> dark grey siltstone calcareous with rare v. thin calcite stringers, slightly erratic but tend to be ~45 degrees.											69.20					0.71							
		70.71	74.03	3.32		DMe		Dark grey cherty siltstone with minor limonitic stain on fractures				Ш							70.71	72.24	1.53	0.58	37.9	0.73	48	FR W	,				
v	76 16		74.34			DMe		Med grey calcareous mudstone with ~2% calcite veins, @ 16 degrees 1-2 mm wide @14 degrees <1 mm wide ~ equal quantities of each.											72.24 75.29	75.29			0		0			1 5	0 2	3	
v	68	74.34	82.96	8.62		DMe		v. heavily ground-up (~ pea sized) non-calcareous dark grey siltstone with minor limonitic stain. A few pieces of stick core with rare near vertical (80-90 degree) quartz veins up to 4 mm wide though dips somewhat erratic and can be as low as 70 degrees. @81.08 m an 11 mm wide calcite vein @ 68 degrees with limonite on the margins incorporating ~10 % angular 1x3 mm dark grey siltstone clasts. @81.10 m a 6 mm wide limonititic horizon dipping 68 degrees incorporating ~15% angular 1x3 mm dark grey siltstone clasts (resembles calcite vein @81.08 m but with higher sulphide content than last vein.	m-s cl	ay alt					81.96	82.96	1.00	C491959	78.33	81.38	3.05	0.48	15.7	0.00	0	FR W	, ,				

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St	ruct.	1	1		ITHO	LOGY		Т	<u> </u>		╂	ALT.	1	MI	NER	ALS			SAN	MPLES	╂	Blocks		RE		TECHI		<u> </u>		- 1	JOIN	ITS	1
	Attitude	From (m)	To (m)		Interval (m)	Φ		Texture	lifier	Notes:							(m) mo.	(m) o	nterval (m)	ample	From (m)	То (m)	Intvl. (m)	KL	Percent	Nu	ercent c	/eathering	lardness	requency	ed ed	Soughness	nfilling
Туре	Atti	먑	To		Inte	Туре	Unit	Tex	Moc	Notes:							Froi	То (Inte	San	망	То	lit.	(m)	Per	(m)	Per	Wea	Har	Fred	Shape	Rou	III
										light -> med grey barium carbonate bedded with alternating light-> med grey horizons and thin med->dark grey horizons 27 cm are weakly brecciated with -80% angular-> subangular light-> med grey micrite clasts in a dark grey calcareous matrix. Minor limonitic stain on fractures. Here clasts tend to start ~ 1x3 mm and get progressively larger with depth until breccia completely disappears. Beds are slightly wavy indicating minor soft sediment def. Last 6 cm of interval beds appear to be slightly broken-up (into 0.5 mm x 2 mm pieces) possibly indicating minor bioturbation.																							
										Interval ends with a 6 m wide limonitic bed with same dip as bedding, minor 1x1 mm				Ш																			
bed	66		84.	93	1.97					pyrite casts.										C491960	81.38	84.43	3.05	1.10	36.1	0.26	8.5	FR V	v	1 5	0 2	2	
bed	66							-[-	Ţ			ļ		F		\Box	83.96	84.93	0.97	C491961	 -								_[-		
bed	69	84.93	3 98.	13	13.2		OSr			dark greyblack mildly to mod calcareous siltstone mod hardness with rare calcite veins ~1 mm thick. Mildly limonite stained, erratic but generally steeply dipping (70-80 degrees) but occasionally flatten out. 86.38-86.98 m v. heavily broken. From 93.03 m to 94.50 m parallel calcite vein ~5 mm apart dip 10-15 degrees and have a series of thin calcite veins linking them together, ~20% of the rock between these veins is calcite stringers.							84.93	85.93	1.00	C491962	84.43	87.48	3.05	1.79	58.7	0.39	13	FR W	v	1 6	0 2	3	
bca	00	04.00	, 50.					+		ounigoro.		<u> </u>	·	1		<u> </u>	04.50	00.00	1.00	0401002	 87.48		3.05	2.81	92.1	1.42	47	FR V	V	2 6	0 2	3	1
	ļ	ļ							+	-	<u>-</u>	ļ		ΙŢ		$\downarrow = \downarrow$				<u>-</u>	 90.53	93.57		2.34				FR V	v	12 7	6 2		
	ł	-						+	+			+		1		+					 93.57		3.05 3.05			0.54		FR V		20 7 14 8		3	
bed	76	98.13	8 90	85	1 72		OSr			dark grey mod -> hard slightly carbonaceous siltstone non-calcareous with extensively limonite stained calcite veins. Veins range in size from <1mm to 7 mm and occur erratically through-out interval making-up -4% of the total interval. The wider veins tend to be shallow dipping (though can range up to 70 degrees) with erratic thin veins shooting off of them at vertical to near vertical dips. Veins occur at highest frequencies between 98.53-98.70; 99.33-99.50 and 100.78-101.22 m. In these zones veining can be up to 35% of rock.												102.72				1.32				8 6			
	70 to		99.	00	1./2		USI		+	Zones vening can be up to 35 /6 of fock.		+		1+		+						102.72				0.00				17 6		-3	

		LITHOLOGY							T	ALT. MINERALS S								SAMPLES Blocks						-		050		-11	JOINTS					
Struct.	┰	1	LIT	HOL	.OGY		1	1			ALT.	1	MIN	NER/	ALS			SAN	IPLES		\dashv		Blocks		RE		TECHI			╬		JOIL	NTS	
Type Attitude	From (m)	To (m)	Interval (m)	mer var (m.)	Туре	Unit	Texture	Modifier	Notes:							From (m)	To (m)	Interval (m)	Sample			From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)		Weathering	Hardness	Frequency	Shape	Roughness	Infilling
	99.8	5 106	5.2 6	.36		OSr			dark grey mod->hard slightly carbonaceous siltstone slightly carbonaceous +/- slightly calcareous. 1-2% steeply dipping calcite veins with minor limonitic stain. Veins vary from 6 mm -> <1 mm wide and dip @ 70-80 degrees. Calcite is milky and fine grained and incorporates -3% angular wall rock clasts up to 5x5 mm. 104.18-104.74 m is where largest calcite vein occurs, here vein is v. near vertical and is 5 mm wide throughout with minor pinch-swell habit.																						91	0		
bed 69	9_106.:	2 116	5.6 10	.41		OSr			dark grey mod hardness calcareous slightly carbonaceous siltstone. Heavily fractured (most broken to pebble sized pieces) in last half of interval. Minor calcite stringers up to 1 mm wide with dips ranging from 30-70 degrees and t pale yellow stain on some fractures.													105.77 108.81	108.81 111.86	3.05	2.28	74.8	0.44	10 F	R W		12 6 25 4	5 2		
bed 68	3 116.6	6 121	.2 4	.55		OSr			dark grey mod hardness calcareous slightly carbonaceous siltstone. Up to 1% calcite veins, predominantly <1 mm wide but rarely up to 4 mm wide ~20% of the time are limonite stained (most common at beginning of interval). Veins are most commonly steeply dipping and erratic but 20% of the time are dipping ~70 degrees (along bedding?). Most significant zones of veining are the 1st 93 cm of the interval, the last 15 cm and between 119.85 and 120.16 m. The later has a 1.7 cm wide pinkish calcite vein in the centre of it dipping 33 degrees.													111.86 114.91 117.96	117.96	3.05	2.60	85.2	1.63 0.81	53 F	R W		10 6 10 6	0 2	2 3	
	121.:	2 127	·.8 6	.65		OSr			dark grey mod hardness calcareous slightly carbonaceous siltstone with ~0.5% calcite stringer veins generally dipping ~70 degrees but range up to 90 degree dip. ~10-15% of interval is slightly lighter coloured siltstone more calcareous layers often associated with brownish stain (pyrite?). Bedding difficult to determine. Minor gypsum on fractures. Mod->s clay alt from 124.98-125.99 m.													121.01 124.05	124.05 127.10				1.08				11 8 15 7		2 3	

			LITHOLOGY ALT. MINERALS SAMPLES																														
_				LITHO	OLOG	Y					ALT.		MINE	ERALS	<u> </u>			SAN	IPLES			. !	Blocks				LECH			Щ	J	OINT	S
s	truct.																							I.	RE	С	RQ	D					
Туре	Attitude	From (m)	To (m)	Interval (m)	Туре	Unit	Texture	Modifier	Notes:							From (m)	То (m)	Interval (m)	Sample			From (m)	To (m)	Intvl. (m)	(m)	Percent	(m)	Percent	Weathering	Frequency	Attitude	Shape	Koughness
bec	71	127.8	148.4	20.62		OSr			med->dark grey calcareous siltstone with 1-2% 1-3 mm wide calcite veins are parallel / sub-parallel to bedding ~60% of the time but in areas of higher concentration some veins some occur at much steeper angles ranging up to vertical dip. The zones of higher vein density tend to decrease in size with depth but the veins themselves increase in size up to 1 cm thick. At the beginning of the interval high vein density zones tend to be 1.5 m long separated from each other by 1 m sections of low vein density; nearer the end of the interval the high vein density zones are 50-100 cm wide and separated by 2 m long low vein density zones.													127.10	133.20	6.10	2.91	47.7	1.31	21 F	₹ W	10	0 79	2	3
bec	76								143.29-143.99 m beige clay fills fractures that run erratically near vertical up the core.																								
bed	82			1					133.40-133.47: ~1% brown flecks, possibly altered pyrite(?) parallel to bedding in the core.																								
1230								\neg					\top		_	\rightarrow						133.20	136.25	3.05	2.91	95.4	2.31	76 F	R W	- - E	63	2	3
	†		1	t		†					†I			 								136.25	139.29			90.8					76		
	1		1	t		†	11				†I			t-t-								139.29	142.34			96.4					7 76		3
	†			t	-	+	+				+		+	t+-								142.34	145.39								7 73		3
	t		 	t	-	+					+		+	 +-								145.39	148.44		2.91						3 73		3
	-	-	_	_	-	-	+			_	-		+	+	$\dashv\vdash$	-		-			-	140.00	140.44		2.31	33.4	1.00						
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