MAR 20070021: FORT HILLS

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Fort Hills Metallic and Industrial Minerals Continuation Report

Fort Hills Project

MIM Permit #: 9303070760

Part B

Prepared for: PCOSI (Petro-Canada)
On Behalf of: Fort Hills Energy Corporation
Prepared by: Chris Doornbos, Geol.I.T.
June 22, 2007

Author Qualifications:

I, Chris Doornbos, residing in Calgary, Alberta, Canada do hereby certify that:

1. I am a Geologist in Training with Petro-Canada located at 150, 6th Ave. SW, Calgary, Alberta, T2P 3E3.
2. I graduated from the University of Alberta with a BSc. in Honours Geology completed in April 2005 and have been practising within this field since.
3. I am a Geologist in Training registered with APEGGA.
4. I am not aware of any material fact or material change with respect to the subject matter of the Report that is not reflected in the Report, or the omission to disclose which make the Report misleading.

[redacted]

Chris Doornbos, Geol.I.T
Calgary, AB
June 22, 2007

Drilling and Assay Results for the Continuation of Metallic and Industrial Minerals Permit # 9303070760

Chris Doornbos
Petro-Canada
June 22, 2007

Outline

Appendices

Introduction:

Petro-Canada operates the Fort Hills Energy Corp's (FHEC) lease for heavy oil/oil sands around and including the area contained within the permit 9303070760. Petro-Canada has the intent to start mining the oil sands within the next 5 years and has become interested in the carbonate unit that forms the basement to the oil sands. It has been reported by other companies in the area that there is potential for the Beaverhill Lake Formation, which directly underlies the oils sands in this area, to contain precious metals. The mine floor, at some point during mining, will reach this unit and to ensure a potential resource is left uninvestigated, we have conducted some work within it. Specifically, we have assayed 5 holes drilled within the permit and tested for Au, Ag, Pd and Pt.

Location and Access:

The 5 holes tested were located within the boundaries of lease 9303070760. They were drilled during FHEC's winter drill program. For exact locations, see the collar table in (Appendix 1). In (Map 1 and Map 2) the location of this years drilling, the 5 holes tested and the lease and permit boundaries are clearly labelled. Map 1 shows the location of the Fort Hills property (inset) and the location of the permit (main map). Map 2 shows the structure of the Beaverhill Lake formation, the location of this years drilling and the five tested holes in relation to the permit area. Access can be gained by travelling north from Fort McMurray approximately 100km on highway 63. A sign on the right hand side clearly marks the entrance to the security gate of the Fort Hills site. These 5 holes drilled are located 3km directly east of the security gate along sand roads beyond the cleared security area.

The permit consists of sections and portions of sections within townships 96 and 97, and ranges 10 and 11W4 (see attachment 1). The land description for this permit is as follows:

96-10W4:	19; W29; 30; 31; W32
97-10W4:	W5; 6
96-11W4:	EP23 (portion lying to the east of the right bank of the Athabasca river)
96-11W4:	24; E25 & WP (portion lying to the east of the right bank of the Athabasca river)
96-11W4:	SEP26 (portion lying to the east of the right bank of the Athabasca river)
96-11W4:	E36 & WP (portion lying to the east of the right bank of the Athabasca river)
97-11W4:	SE1, SWP & NEP; L11P (portion lying to the east of the right bank of the Athabasca river)

Summary of Work Completed:

Drilling was completed and assays were completed on 5 holes on land within permit 9303070760. FHEC holds the heavy oil rights to the same piece of land and adjacent lands. Within the next 5 years it is FHEC's intention to start mining the heavy oil, of which has a basement of the carbonate Beaverhill Lake Formation. The unit tested (The Beaverhill Lake formation, part of the Waterways Group in the Devonian) has been reported by other companies to hold, in places, a moderately significant precious metal resource. At some point during mining, the pit floor will reach this unit. To ensure that a good potential resource does not go uninvestigated, we have completed assays within our lease to test for precious metals below our proposed mine.

Drilling during the most recent program commended in early November 2006. The program came to an end in late March. For this program holes were drilled, cored, wireline logged and described throughout the entire lease held by Fort Hills Energy Corp. 65 holes were drilled within the area of

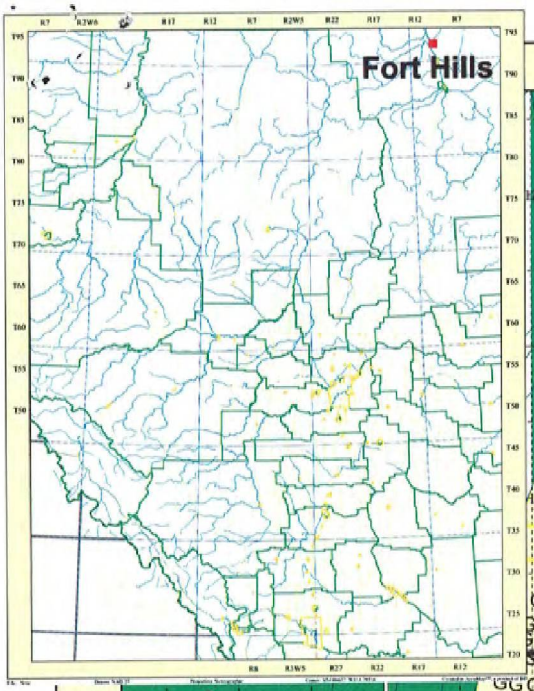
permit #9303070760. Of these, 5 were selected for assays of the Beaverhill Lake (BHL) formation (Appendix 1). The entire cored section within the BHL formation was tested, unless core was lost, at approximately a 1.0m sample interval. Refer to (Appendix 1) for the list of sample intervals. The core was described by qualified geologist Paul Newman, Dave Henderson, and Don Dale. The core logs for this section can be found in (Appendix 2).

The assays were completed by ALS Chemex. The lab is located at 212 Brooksbank Ave, N. Vancouver, BC, V7J 2C1. A standard group of tests were completed including PGM-ICP23, Ag-AA45, ME-MS81D, and ME-ICP06 along with initial crushing and separation work. A full description of these tests is provided by ALS Chemex and can be found in (Appendix 4). Essentially, we were interested in the concentrations of some heavy precious metals (Au, Pt, Pd) and Ag. Along with this we wanted to characterize the Devonian sediments and start to build a database of the chemical signature of the area. This can be used with positive results to start to track trends in sedimentation relative to precious metal concentrations. For this purpose we ran a general bulk geochemistry and Rare Earth Element (REE) analysis. This is the beginning of a potential long-term project to understand the resource under the proposed heavy oil mine located directly on top of the BHL formation. The analytical results and a brief interpretation can be found in (Appendix 3). The certified laboratory results can be found in (Appendix 5).

Summary of Costs:
The costs being applied to the MIM Permit 9303070760 include drilling costs for the 5 holes on a per meter basis and the assay cost incurred to ALS Chemex.. The total expenditures for these 5 holes is $472,377.83. The required spending for this permit for the July 2007 submission is $21,550.00 as per a memo from Anna Maslowski dated Feb. 28, 2006. We therefore have an overpayment of $450.827.83. The justifications of these costs can be found in Part A, not present here.

Summary of Assay Results:
The assays completed in the Beaverhill Lake formation on the Metallic and Industrial Minerals Permit # 9303070760 yielded essentially no resource in the units and holes tested. Of all the results the highest value was Pd in hole 2006-5-172 at 0.012g/tonne. The unit was also tested for whole rocks and Rare Earth Element (REE) analysis to characterise the sediments. The results show a slight sialic component to the sediments and a reduction in this content with depth. This confirmed that in these specific locations it is unlikely to have sediments depositing such heavy elements in a distal setting. There is still an avenue to explore for vein hosted, structurally controlled resource, though further assays deeper into the formation and on a regional perspective are required along with some petrography. For a complete summery of the results, see (Appendix 3).

Conclusions:
After close analysis of the results from the 5 holes tested, there seems to be little potential for large precious metal concentrations in the Beaverhill Lake formation. As holes are drilled to the north and west, the formation can be tested further to check for variability and validate our current results. We can also investigate for precious metals deeper into the formation. At this point, we have little to no evidence of precious metal resource near the top of the Beaverhill Lake formation in these locations.



R10W4

T97

T96

T96

Permit #
9303070760

1AA -2 -30

E

R11

R10W4

Map 1: Inset – Alberta with permit area (red square)

Main Map - Permit Area with previous holes (legacy).

E – Refers to the location of the 2005 continuation report

File: Fort Hills Metallic Permit.MAP Datum: NAD 27 Projection: Stereographic Center: N57.36676 W111.62641 Created in AccuMap™, a product of IHS Energy

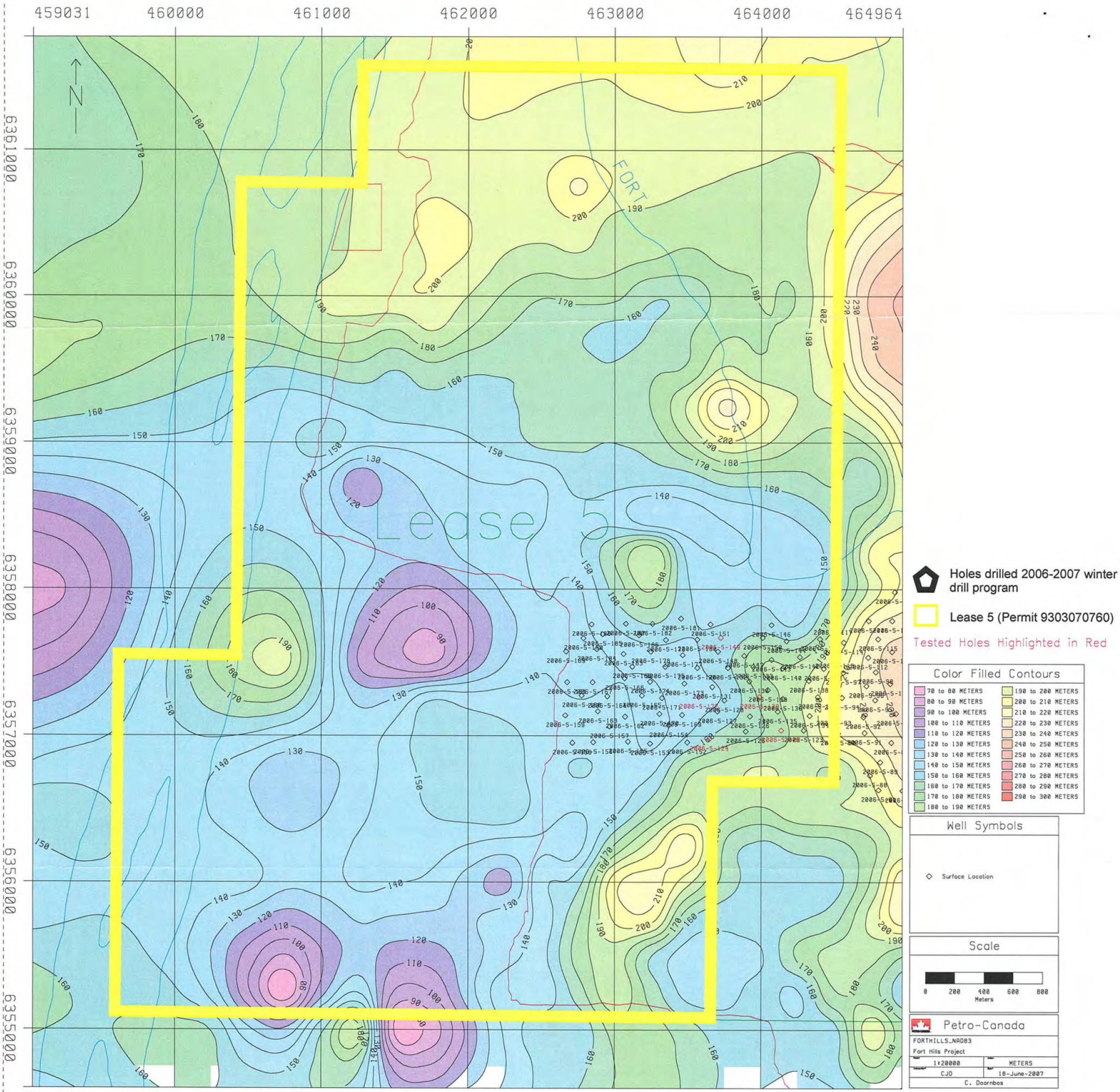
Fort Hills Metallic and Industrial Minerals Continuation Report

Fort Hills Project

MIM Permit #: 9303070760

Part C

Prepared for: PCOSI (Petro-Canada)
On Behalf of: Fort Hills Energy Corporation
Prepared by: Chris Doornbos, Geol.I.T.
June 22, 2007



Map 2: Structure map of the Beaverhill Lake Formation, tested holes highlighted in red.

Appendix 1:

Drill Collar Summery and Sample Intervals

Drill Hole Collar Information

Hole ID	Easting	Northing	Elevation	Hole Depth	BHL Depth	BHL Elevation	BHL Thickness	Core Diameter	Azamuth	Dip	UWI
2006-5-124	463645.5	6356980	293.04	147.3	132.1	160.94	15.2	156mm	NA	-90	1AG042909610W400
2006-5-149	463724.6	6357668	289.26	152.9	137.2	152.06	15.7	156mm	NA	-90	1AE122909610W400
2006-5-122	464136.2	6357039	291.18	116.1	100.2	190.98	15.9	156mm	NA	-90	1AD032909610W400
2006-5-172	463574.2	6357264	291.87	160.3	144.4	147.47	15.9	156mm	NA	-90	1AF083009610W400
2006-5-129	463989.8	6357264	291.83	143.9	127.9	163.93	16	156mm	NA	-90	1AF052909610W400

Hole ID	From	To	Sample #	Sampled	Notes
2006-5-124	132.1	133	07_6501		
2006-5-124	135	136	07_6504		
2006-5-124	143	144	07_6512		
2006-5-124	144	145	07_6513		
2006-5-124	146	147	07_6515		
2006-5-149	137.2	138	07_6516		
2006-5-149	138	139	07_6517		
2006-5-149	139	140	07_6518		
2006-5-149	140	141	07_6519		
2006-5-149	141	142	07_6520		
2006-5-149	142	143	07_6521		
2006-5-149	143	144	07_6522		
2006-5-149	144	145	07_6523		
2006-5-149	145	146	07_6524		
2006-5-149	146	147	07_6525		
2006-5-149	147	148	07_6526		
2006-5-149	148	149	07_6527		
2006-5-149	149	150	07_6528		
2006-5-149	150	151	07_6529		
2006-5-149	151	152	07_6530		
2006-5-122	100.2	101	07_6531		
2006-5-122	101	102	07_6532		
2006-5-122	102	103	07_6533		
2006-5-122	103	104	07_6534		
2006-5-122	104	105	07_6535		
2006-5-122	105	106	07_6536		
2006-5-122	106	107	07_6537		
2006-5-122	107	108	07_6538		
2006-5-122	108	109	07_6539		
2006-5-122	109	110	07_6540		
2006-5-122	110	111	07_6541		
2006-5-122	111	112	07_6542		
2006-5-122	112	113	07_6543		
2006-5-122	113	114	07_6544		
2006-5-122	114	115	07_6545		
2006-5-172	145	146	07_6546		
2006-5-172	146	147	07_6547		
2006-5-172	147	148	07_6548		
2006-5-172	148	149	07_6549		
2006-5-172	149	150	07_6550		
2006-5-172	150	151	07_6551		
2006-5-172	151	152	07_6552		
2006-5-172	152	153	07_6553		
2006-5-172	153	154	07_6554		
2006-5-172	154	155	07_6555		
2006-5-172	155	156	07_6556		
2006-5-172	156	157	07_6557		
2006-5-172	157	158	07_6558		
2006-5-172	158	159	07_6559		
2006-5-172	159	160	07_6560		
2006-5-129	128	129	07_6561		
2006-5-129	129	130	07_6562		
2006-5-129	130	131	07_6563		
2006-5-129	132	133	07_6565		
2006-5-129	133	134	07_6566		
2006-5-129	136	137	07_6569		
2006-5-124	133	134	07_6502	Not Sampled	Lost Core
2006-5-124	134	135	07_6503	Not Sampled	Lost Core
2006-5-124	136	137	07_6505	Not Sampled	Lost Core
2006-5-124	137	138	07_6506	Not Sampled	Lost Core
2006-5-124	138	139	07_6507	Not Sampled	Lost Core
2006-5-124	139	140	07_6508	Not Sampled	Lost Core
2006-5-124	140	141	07_6509	Not Sampled	Lost Core
2006-5-124	141	142	07_6510	Not Sampled	Lost Core
2006-5-124	142	143	07_6511	Not Sampled	Lost Core
2006-5-124	145	146	07_6514	Not Sampled	Lost Core
2006-5-129	131	132	07_6564	Not Sampled	Lost Core
2006-5-129	134	135	07_6567	Not Sampled	Lost Core
2006-5-129	135	136	07_6568	Not Sampled	Lost Core
2006-5-129	137	138	07_6570	Not Sampled	Lost Core
2006-5-129	138	139	07_6571	Not Sampled	Lost Core
2006-5-129	139	140	07_6572	Not Sampled	Lost Core
2006-5-129	140	141	07_6573	Not Sampled	Lost Core
2006-5-129	141	142	07_6574	Not Sampled	Lost Core
2006-5-129	142	143	07_6575	Not Sampled	Lost Core

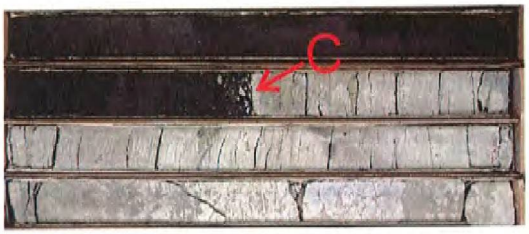
Appendix 2:

Core Logs

Core Log Description:

The core logs attached represent the entire hole drilled. The Limestone basement is represented by blue (DW). The facies found within these holes are listed here:
7010 – Micritic Limestone
7040 – Fossiferous Limestone
7050 – Argillaceous Limestone
7099 – Undifferentiated Limestone

The logs provide Density, Resitivity and Gamma wireline logs. It also has a visual V-shale display created using an analyis of the photos on a per pixel basis used mainly for OS. Some important columns to note are facies numbers and interpreted lithology (lost core intervals). The samples for this study were collected after the fact and are not represented here. Below are pictures of the interpreted facies seen in these holes. The first picture clearly displays point "C" which shows the contact between the Lower McMurray (LMCM) and the Beaverhill Lake.



Hole: 2006-5-122
Facie: 7050
C: Contact with LMCM

Hole: 2006-5-172
Facie: 7010

Hole: 2006-5-129
Facie: 7040

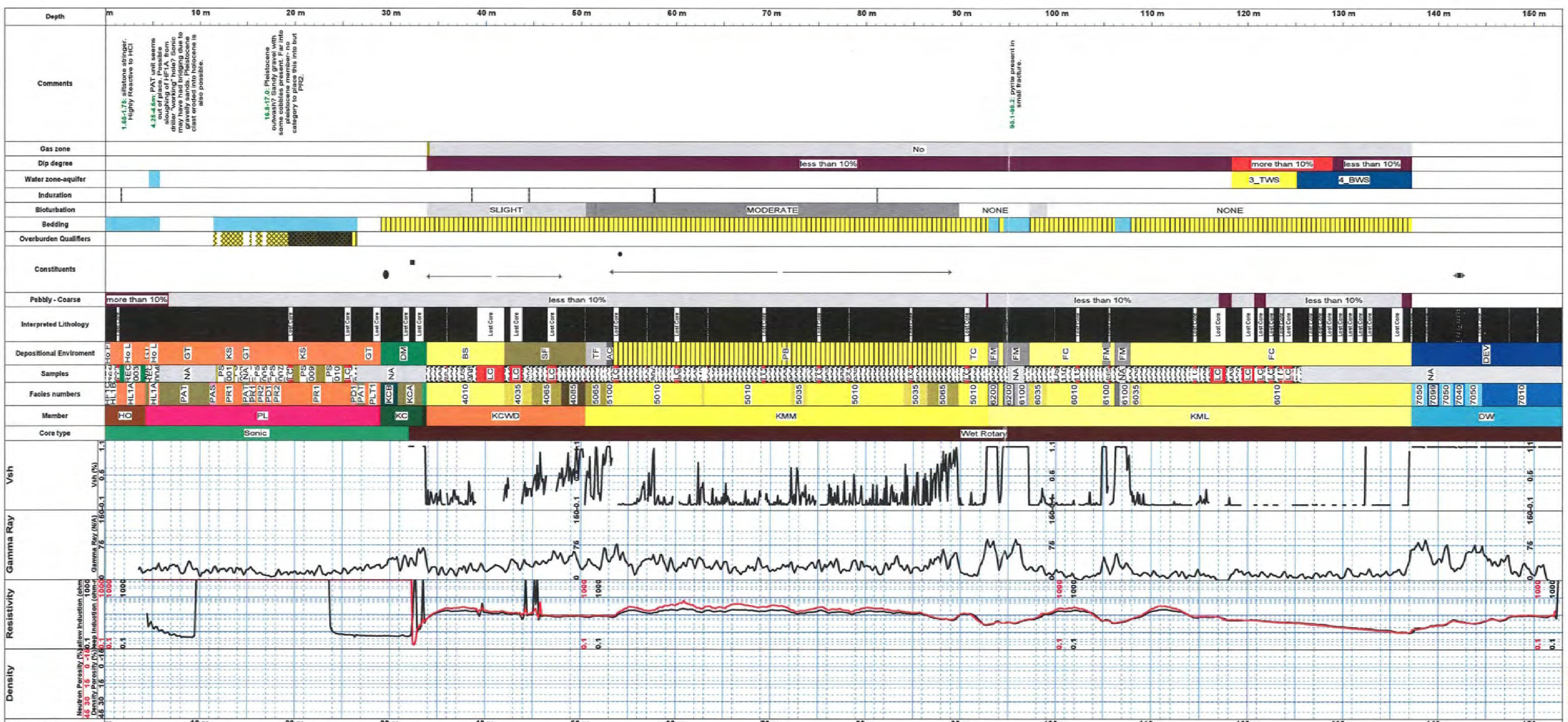
Hole: 2006-5-149
Facie: 7099

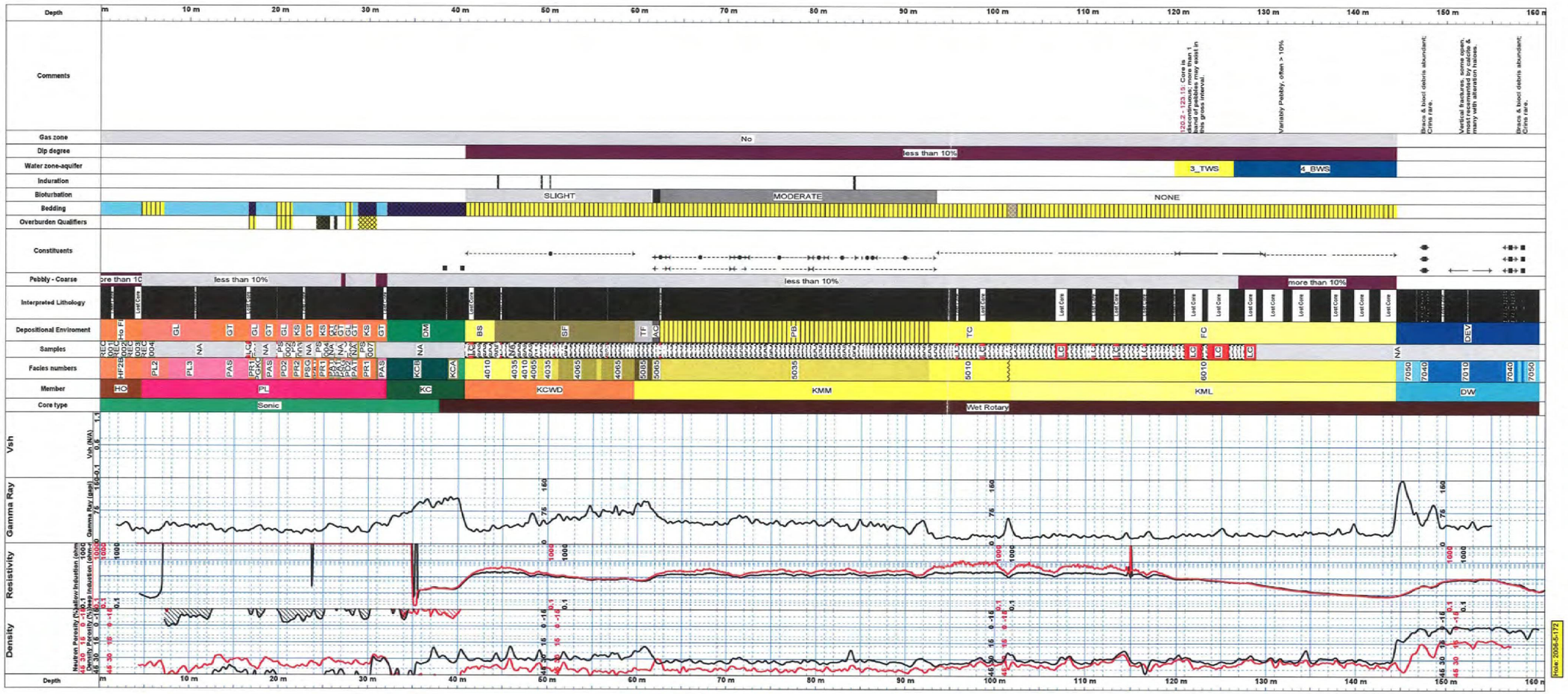
10cm


Depth
Comments
Lots of lost core, potentially a coarse grained area.
Gas zone
No
Dip degree
less than 10%
Water zone-aquifer
Induration
Bioturbation
MODERATE
INTENSE
SLIGHT
NONE
Bedding
Overburden Qualifiers
Constituents
Pebbly - Coarse
less than 10%
more than 10%
Interpreted Lithology
Depositional Enviroment
Samples
Facies numbers
Member
HC
PL
KMM
KML
DW
Core type
Sonic
Wet Rotary
Vsh
Gamma Ray
Resistivity
Density
Hole: 2006-5-122


Depth
Comments
125-132.1: Basal Aquifer Sand this is an inference based on logs and small amounts of core present.
Gas zone
No
Dip degree
less than 10%
more than 10%
less than 10%
Water zone-aquifer
4_BWS
Induration
Bioturbation
SLIGHT
MODERATE
NONE
Bedding
Overburden Qualifiers
Constituents
Pebbly - Coarse
less than 10%
more than 10%
Interpreted Lithology
Depositional Enviroment
Samples
Facies numbers
Member
HO
PL
KC
KCWD
KMM
KML
DW
Core type
Sonic
Wet Rotary
Vsh
Gamma Ray
Resistivity
Density
Hole: 2006-5-124


Depth
Comments
Classic PL3 unit.
PSG is an unconsolidated gravel / bolder - cobble sized clasts, poorly sorted, appears to be an outwash gravel. Due to position it may be a glacial discharge period.
Gas zone
No
Dip degree
less than 10%
Water zone-aquifer
4_BWS
Induration
Bioturbation
SLIGHT
INTENSE
INTENSE
NONE
Bedding
Overburden Qualifiers
Constituents
Pebbly - Coarse
more than 10%
less than 10%
more than 10%
Interpreted Lithology
Lost Core
Depositional Enviroment
GT
GL
DM
SF
TF
PB
AC
FC
POE
DEV
Samples
NA
Facies numbers
4035
4065
5085
5035
5010
5100
5065
6010
6100
6050
7010
7040
Member
PL
KC
KCW
KMM
KML
DW
Core type
Sonic
Wet Rotary
Vsh
Vsh (%)
Gamma Ray
Gamma Ray (N/A)
Resistivity
Deep Induction (N/A)
Shallow Induction (N/A)
Density
Neutron Porosity (N/A)
Density Porosity (N/A)
0 m
10 m
20 m
30 m
40 m
50 m
60 m
70 m
80 m
90 m
100 m
110 m
120 m
130 m
140 m
Hole: 2006-5-129


Depth
Comments
1.65-1.75: siltstone stringer. Highly Reactive to HCl
4.25-4.6m: PAT unit seems out of place. Possible sloughing of HF1A from driller "working" hole? Sonic may have had bridging due to gravelly sands. Pleistocene clast eroded into holocene is also possible.
16.8-17.0: Pleistocene outwash? Sandy gravel with some cobbles present. Far into pleistocene member- no category to place this into but PR2.
95.1-95.2: pyrite present in small fracture.
Gas zone
No
Dip degree
less than 10%
more than 10%
less than 10%
Water zone-aquifer
3_TWS
4_BWS
Induration
Bioturbation
SLIGHT
MODERATE
NONE
NONE
Bedding
Overburden Qualifiers
Constituents
Pebbly - Coarse
more than 10%
less than 10%
less than 10%
less than 10%
Interpreted Lithology
Depositional Enviroment
Samples
Facies numbers
Member
HO
PL
KC
KCWD
KMM
KML
DW
Core type
Sonic
Wet Rotary
Vsh
Gamma Ray
Resistivity
Density
Hole: 2006-5-149


Depth
Comments
Gas zone
Dip degree
Water zone-aquifer
Induration
Bioturbation
Bedding
Overburden Qualifiers
Constituents
Pebbly - Coarse
Interpreted Lithology
Depositional Environment
Samples
Facies numbers
Member
Core type
Vsh
Gamma Ray
Resistivity
Density
No
less than 10%
3_TWS
4_BWS
SLIGHT
MODERATE
NONE
less than 10%
more than 10%
Sonic
Wet Rotary
HQ
PL
KC
KCWD
KMM
KML
DW
Hole 2006-5-172

Appendix 3:

Assay Analytical Results and Interpretation

Assay Results:

Assays were completed on the Beaverhill Lake Formation, part of the Waterways Group within the Devonian. The drilling completed during the winter of 2006-2007 brought the total depth of each of the holes just over 15m into the BHL formation. Therefore, each of the assays represents the top 15m of the BHL exposure, what would have at some point been subaerilly exposed, even if only temporarily. Along with assays, bulk geochemistry and REE analysis was conducted to further characterise the unit. The raw data of the results of these tests can be found in (Appendix 5)

The results of the assays are shown in Figure 1. It can be clearly seen that there is little to no resources in these holes based on the samples tested. Precious metals would occur in these sediments by being brought in by two major processes. The first is fluids moving along structures and fractures, likely originating from the Precambrian basement below. They could also have been deposited by sediments derived from a crustal source such as the Precambrian shield which is assumed to be exposed to the east during the Devonian. Either way, there is evidence of a sialic, assumably Precambrian, source as seen below.

A large percentage of the samples came back with mere trace amounts of all of the precious metals tested. Pt and Ag did not have a single value over trace amounts. Sample # 07_6558 (2006-5-172, 157-158m) had relatively high levels of Au and Pd. The highest concentration recorded in all tests on all samples was 0.012 g/tonne Pd. Although this is nearly an order of magnitude higher than the next sample, it is still below present day resource level requirements.

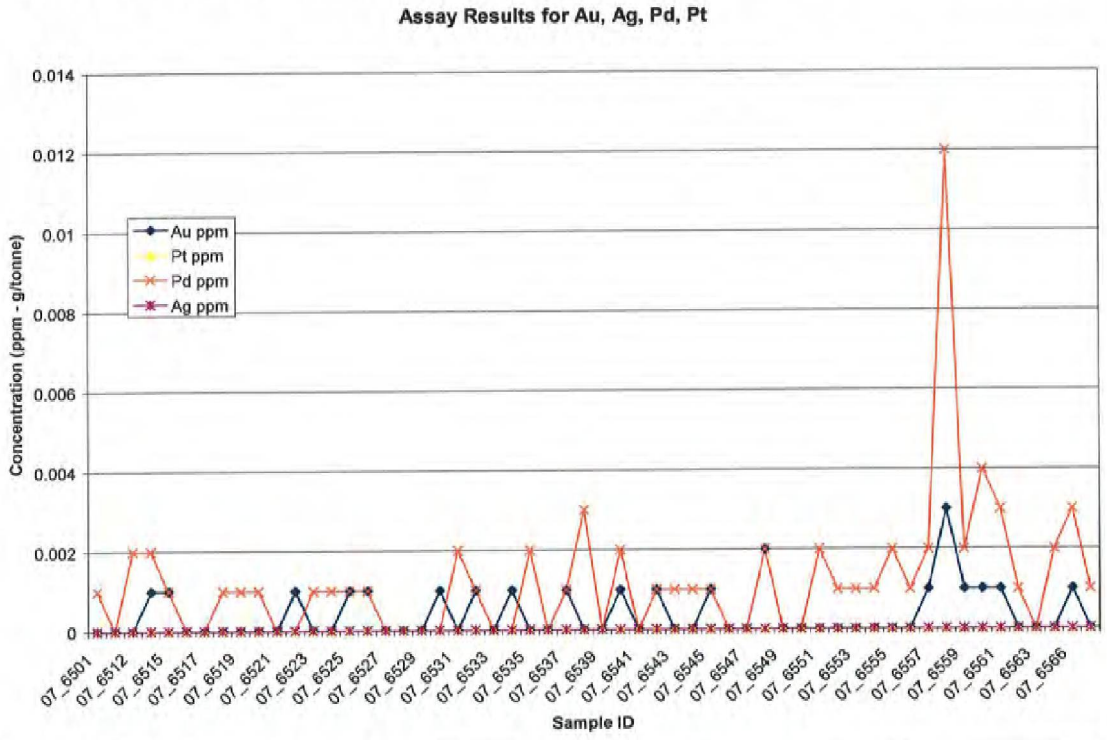


Figure 1: Concentration of tested precious metals (Au, Ag, Pd, and Pt).

Geochemistry Results:

The bulk geochemistry and REE results were quite interesting. As seen in (Figure 3) the REE concentrations are quite similar and follow similar trends. There also seems to be a sharp decline in the concentrations of most REE's generally with depth on all holes (Figure 2).

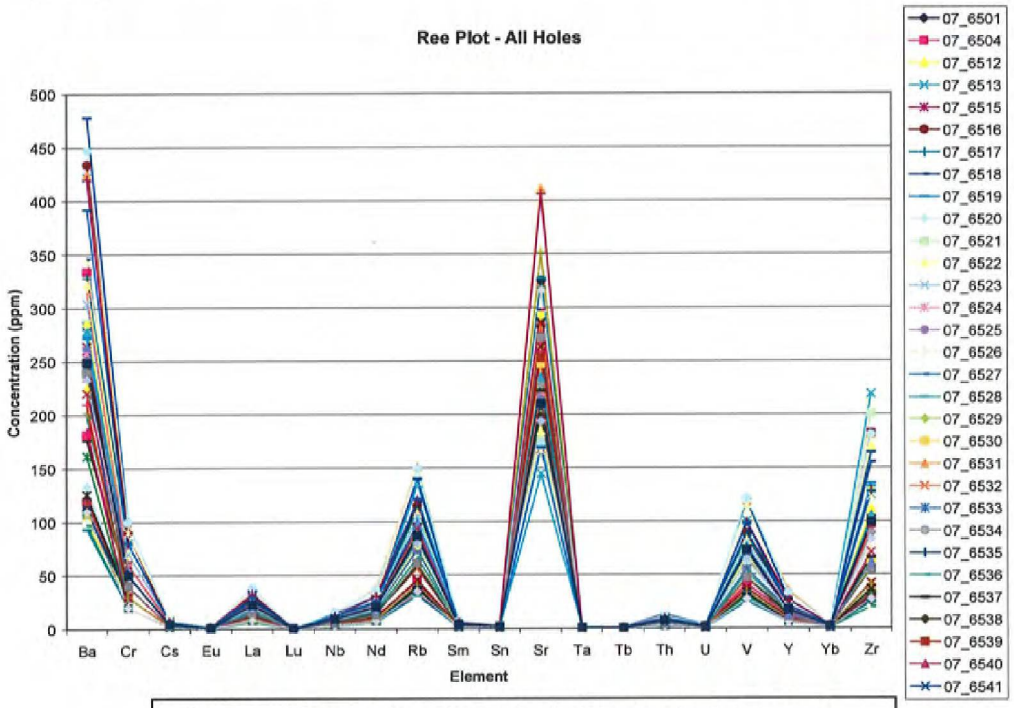


Figure 3: All Samples showing REE concentration (ppm).

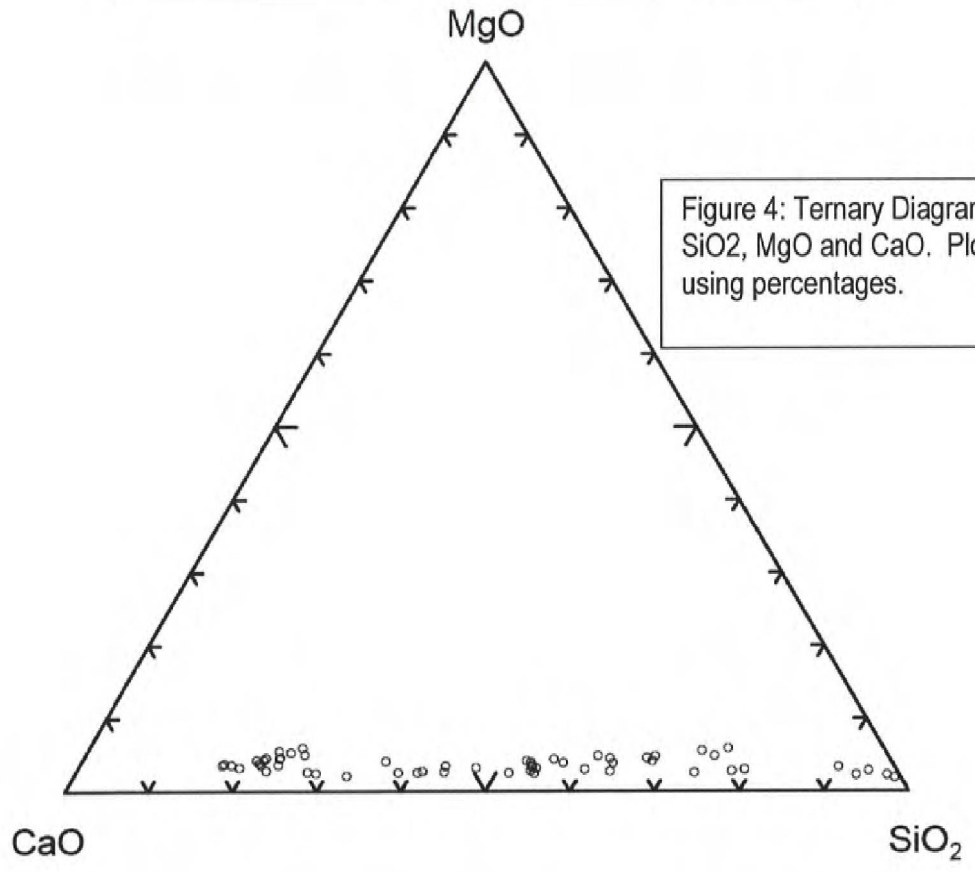
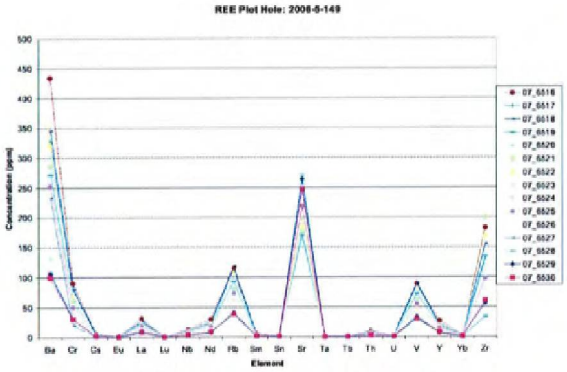
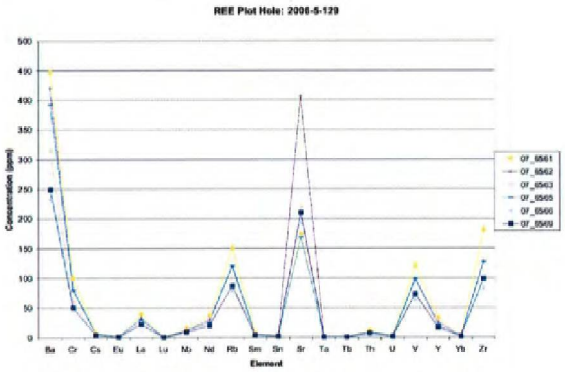
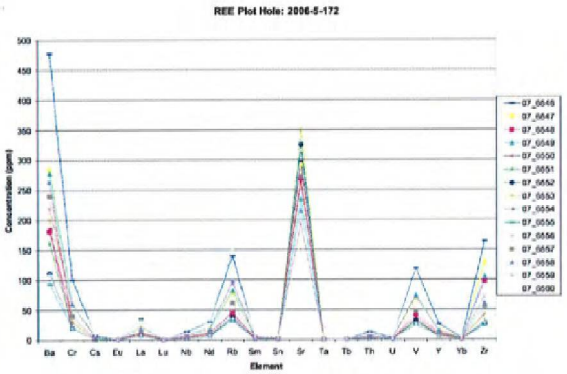
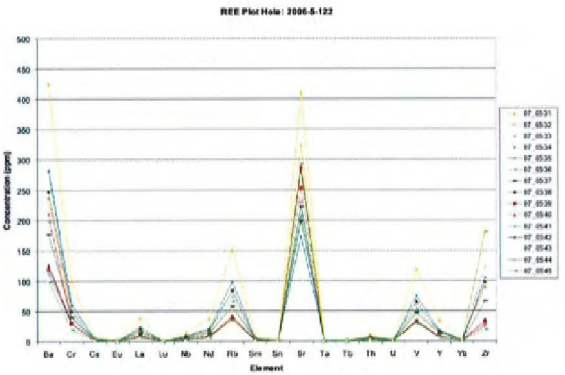


Figure 4: Ternary Diagram – SiO2, MgO and CaO. Plotted using percentages.









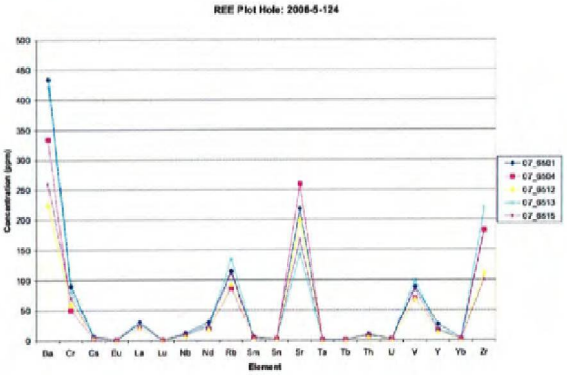


Figure 2: Rare Earth Element (REE) plots for the 5 holes tested.
Note: the legend on the right side of each plot is organized by depth from shallow to deep.

The larger spikes in the data are from Ba, Rb, Sr and Zr. Also, there is high concentrations and SiO2 and, in some cases, lower than expected CaO concentrations, with little to no MgO (Figure 4). There are relatively higher concentrations of Al, Fe and K than expected (Figure 5). Figure 5 has trends suggesting clays derived from minerals such as Feldspar (Plagioclase and K-Spar end members) and micas. These factors strongly suggest a sialic source, likely from the Canadian Shield. This is consistent with the current depositional model for this formation. An assumption is made that there is a correlation between CaO (oxide) and CaO3 (carbonate) for the analysis completed here.

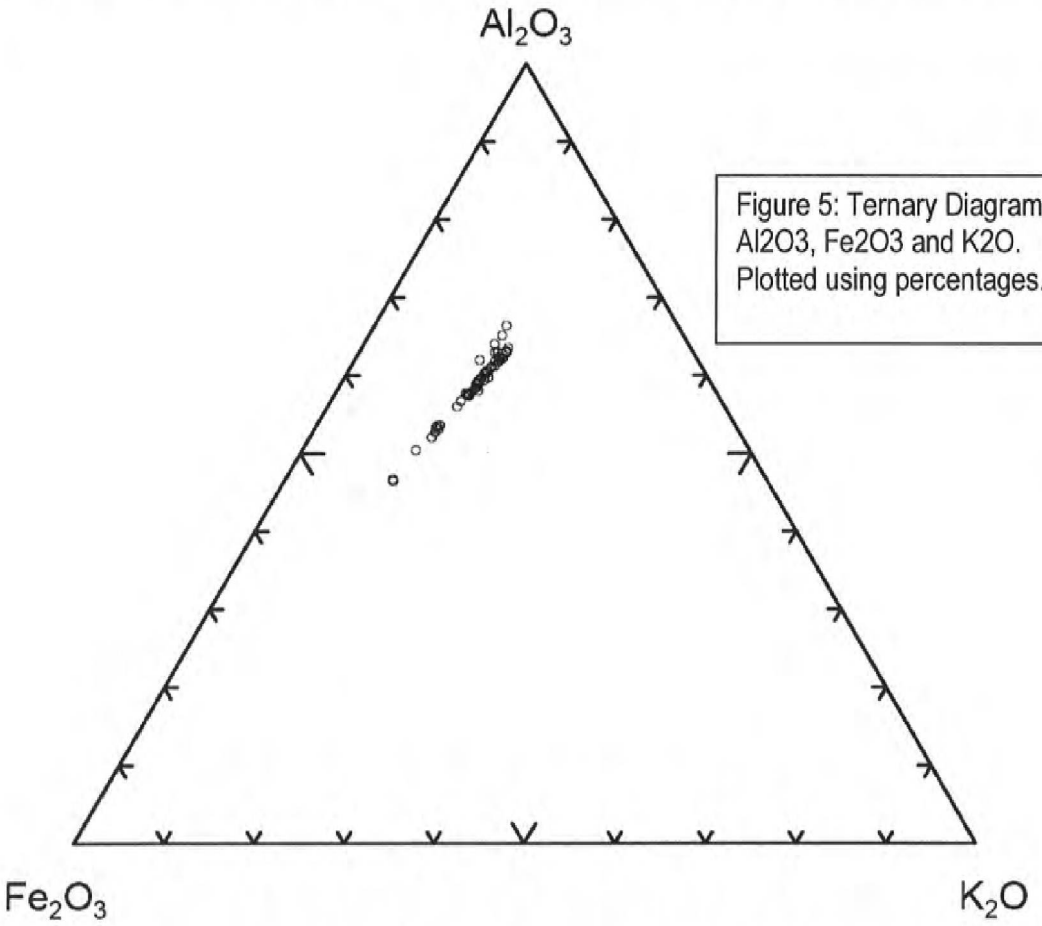


Figure 5: Ternary Diagram – Al2O3, Fe2O3 and K2O. Plotted using percentages.

Even though the concentration of REE's decreases with depth, all the samples start and finish at roughly the same concentration. This is interesting to note as the elevation of the BHL formation in each hole is quite variable (see Appendix 1 – Drill Collar) suggesting that the holes should have drilled into different sub-units and/or facies within the BHL. This would have resulted in variable REE concentrations within the BHL at variable depths and values at certain depths would correlate depending on the structural trend of the formation. What is seen is a general trend that all the holes have similar values at similar depths and the elevation has little to no influence in the trends of these elements (Figure 3). In other words it does not matter what elevation the unit is

encountered in these 5 holes, it has the same character at the top. There is also a similar unit encountered at the top of four of the five holes, described here as an Argillaceous Limestone (7050).

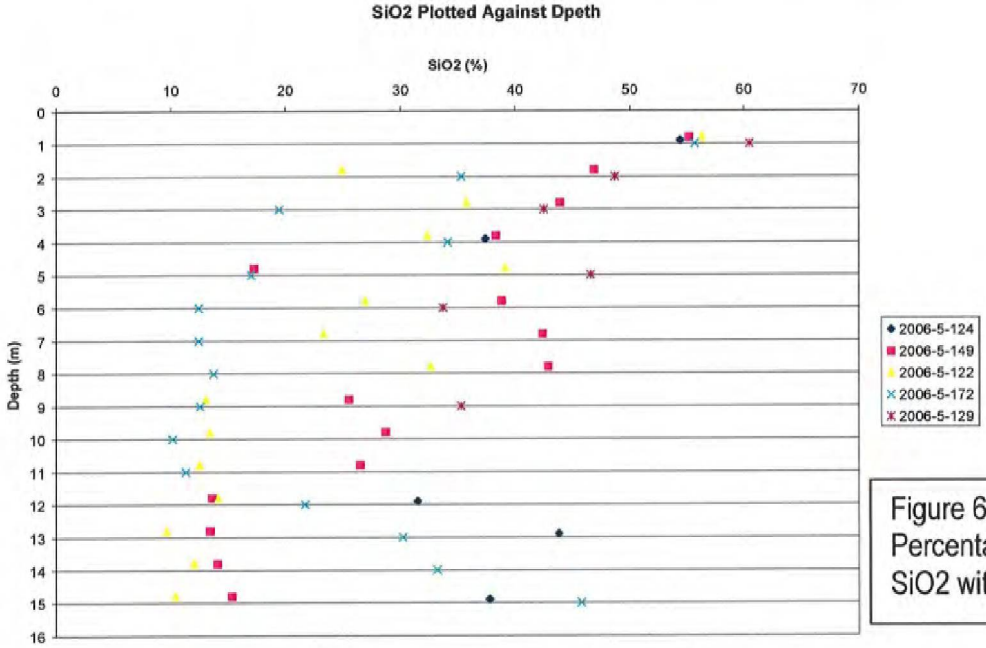


Figure 6: Percentage of SiO2 with depth.

Across the newly drilled holes, a facie 7050 is found at the top 76% of the time and when it is not, a Micritic Limestone (facies: 7010) generally what is recorded. There is also a higher than expected SiO2 concentration which may suggest a re-deposition of the Devonian carbonate regionally mixing slightly with a sialic source at some point pre-McMurray time. There is also a moderate correlation with SiO2 concentration and Depth (Figure 6). As depth increases, the SiO2 concentration decreases. Contrarily, CaO is seen to have the reverse relationship (Figure 7).

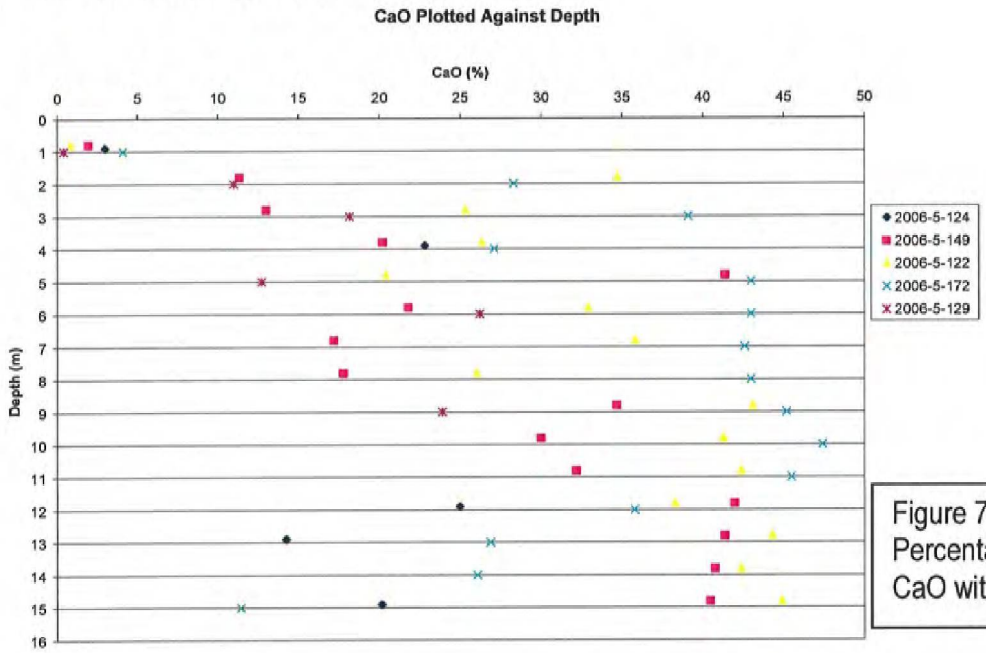


Figure 7: Percentage of CaO with depth.

This occurs for all holes in a similar pattern and strongly suggests local erosion, mixing of sialic sediments preferentially later (seen closer to the top of the sequence) and deposition. The main argument is that at varying elevations (ie: varying locations in the stratigraphic column). The sediments have the same character trends from locally derived sediments to sediments with influence from a sialic or quartz rich parent rock mixed with locally derived sediments in an upward succession. Conversely, in the stratigraphic sequence, the Waterways Shale is typically found on top of reefal deposits as seen in these holes. If these sediments are the Waterways Shale, then it shows a trend to increasing in sialic (continental/crustal) sourced sediments through time. This may seem the more likely solution but does not account for the lack of stratigraphic correlation.

There is strong evidence that the Beaverhill Lake formation was sourced, at least in part, by the Precambrian Shield, as was expected. There is some evidence for post exhumation erosion and deposition prior to the McMurray rivers system. Both of these processes could have carried precious metals from the shield. Although the weight of these metals would likely have precluded them being carried far enough to be deposited in such a low energy environment. The likely source of any metal would be from fluid sourced from a precious metal rich deposit within the basement. Another possible source has been proposed for low temperature fluid movement in super saturated waters under pressure concentrating precious metals. In either of these two scenarios, metals would be preferentially found in veins. There was little to no evidence of veining in these samples and there was no resources found either. Another possibility is that we are seeing an effect of diagenic alteration, though how this effects the concentrations of Rb/Sr is unknown.

To further investigate this, I would recommend a two phases approach. First a deeper investigation into the BHL formation looking for veining or other evidence of fluids and second, further regional drilling to investigate the aerial lithostratigraphic variance within the upper BHL.. Also, petrography and or SEM of the sample that contain minor amounts of Pd and Au might reveal where the metals are contained within the rock. For now, there is little evidence to suggest there is a precious metal resource near the top of the BHL in this limited area, under our heavy oil resource within this lease.

Appendix 4:

ALS Chemex Analytical Test Descriptions

ALS Chemex

Geochemical Procedure – ME-AA45
Atomic Absorption Spectroscopy – Aqua Regia Digestion

Sample Decomposition: HNO_3 – HCl Aqua Regia Digestion (GEO-AR01)
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample (0.50 g) is digested with aqua regia for 45 minutes in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 mL with demineralized water, mixed and analysed by atomic absorption spectrometry.

Note: Although some base metals may dissolve quantitatively in the majority of geological matrices, data reported from an aqua regia digestion should be considered as representing only the leachable portion of a particular analyte. The recovery percentage of many analytes from more resistive minerals can be very low, but the acid leachable portion can be an excellent exploration too.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.2	100	Ag-AA46
Arsenic	As	ppm	5	10000	As-AA46
Cobalt	Co	ppm	1	10000	Co-AA62
Copper	Cu	ppm	1	10000	Cu-AA46
Molybdenum	Mo	ppm	1	10000	Mo-AA46
Nickel	Ni	ppm	1	10000	Ni-AA62
Lead	Pb	ppm	1	10000	Pb-AA46
Zinc	Zn	ppm	1	10000	Zn-AA46

ALS Chemex

Whole Rock Geochemistry – ME-ICP06 and OA-GRA05
Analysis of major oxides by ICP-AES

ME-ICP06

Sample Decomposition: Lithium Metaborate/Lithium Tetraborate ($LiBO_2/Li_2B_4O_7$) Fusion* (FUS-LI01)

Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES)

A prepared sample (0.200 g) is added to lithium metaborate/lithium tetraborate flux (0.90 g), mixed well and fused in a furnace at 1000°C. The resulting melt is then cooled and dissolved in 100 mL of 4% nitric acid/2% hydrochloric acid. This solution is then analyzed by ICP-AES and the results are corrected for spectral inter-element interferences. Oxide concentration is calculated from the determined elemental concentration and the result is reported in that format.

Element	Symbol	Units	Lower Limit	Upper Limit
Aluminum	Al_2O_3	%	0.01	100
Barium	BaO	%	0.01	100
Calcium	CaO	%	0.01	100
Chromium	Cr_2O_3	%	0.01	100
Iron	Fe_2O_3	%	0.01	100
Magnesium	MgO	%	0.01	100
Manganese	MnO	%	0.01	100
Phosphorus	P_2O_5	%	0.01	100
Potassium	K_2O	%	0.01	100
Silicon	SiO_2	%	0.01	100
Sodium	Na_2O	%	0.01	100
Strontium	SrO	%	0.01	100
Titanium	TiO_2	%	0.01	100

ALS Chemex

Geochemical Procedure - ME-MS81

Ultra-Trace Level Methods

Sample Decomposition: Lithium Metaborate Fusion (FUS-LI01)
Analytical Method: Inductively Coupled Plasma - Mass Spectroscopy (ICP - MS)

A prepared sample (0.200 g) is added to lithium metaborate flux (0.90 g), mixed well and fused in a furnace at 1000°C. The resulting melt is then cooled and dissolved in 100 mL of 4% nitric acid. This solution is then analyzed by inductively coupled plasma - mass spectrometry.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	1	1000
Barium	Ba	ppm	0.5	10000
Cerium	Ce	ppm	0.5	10000
Cobalt	Co	ppm	0.5	10000
Chromium	Cr	ppm	10	10000
Cesium	Cs	ppm	0.01	10000
Copper	Cu	ppm	5	10000
Dysprosium	Dy	ppm	0.05	1000
Erbium	Er	ppm	0.03	1000
Europium	Eu	ppm	0.03	1000
Gallium	Ga	ppm	0.1	1000
Gadolinium	Gd	ppm	0.05	1000
Hafnium	Hf	ppm	0.2	10000
Holmium	Ho	ppm	0.01	1000
Lanthanum	La	ppm	0.5	10000

Element	Symbol	Units	Lower Limit	Upper Limit
Lutetium	Lu	ppm	0.01	1000
Molybdenum	Mo	ppm	2	10000
Niobium	Nb	ppm	0.2	10000
Neodymium	Nd	ppm	0.1	10000
Nickel	Ni	ppm	5	10000
Lead	Pb	ppm	5	10000
Praseodymium	Pr	ppm	0.03	1000
Rubidium	Rb	ppm	0.2	10000
Samarium	Sm	ppm	0.03	1000
Tin	Sn	ppm	1	10000
Strontium	Sr	ppm	0.1	10000
Tantalum	Ta	ppm	0.1	10000
Terbium	Tb	ppm	0.01	1000
Thorium	Th	ppm	0.05	1000
Thallium	Tl	ppm	0.5	1000
Thulium	Tm	ppm	0.01	1000
Uranium	U	ppm	0.05	1000
Vanadium	V	ppm	5	10000
Tungsten	W	ppm	1	10000
Yttrium	Y	ppm	0.5	10000
Ytterbium	Yb	ppm	0.03	1000
Zinc	Zn	ppm	5	10000
Zirconium	Zr	ppm	2	10000

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Geochemical Procedure - PGM-ICP23 and PGM-ICP24
Precious Metals Analysis Methods

Sample Decomposition: Fire Assay Fusion (FA-FUSPG1, FA-FUSPG2)

Analytical Method: Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES)

A prepared sample (30 – 50 g) is fused with a mixture of lead oxide, sodium carbonate, borax and silica, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead. The bead is digested for 2 minutes at high power by microwave in dilute nitric acid. The solution is cooled and hydrochloric acid is added. The solution is digested for an additional 2 minutes at half power by microwave. The digested solution is then cooled, diluted to 4 mL with 2 % hydrochloric acid, homogenized and then analyzed for gold, platinum and palladium by inductively coupled plasma – atomic emission spectrometry.

Method Code	Element	Symbol	Units	Sample Mass (g)	Lower Limit	Upper Limit	Default Overlimit Method
PGM-ICP23	Gold	Au	ppm	30	0.001	10	Au-GRA21
PGM-ICP23	Platinum	Pt	ppm	30	0.005	10	PGM-ICP27
PGM-ICP23	Palladium	Pd	ppm	30	0.001	10	PGM-ICP27
PGM-ICP24	Gold	Au	ppm	50	0.001	10	Au-GRA21
PGM-ICP24	Platinum	Pt	ppm	50	0.005	10	PGM-ICP27
PGM-ICP24	Palladium	Pd	ppm	50	0.001	10	PGM-ICP27

Appendix 5:

Certificate of Assay Results

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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: PETRO CANADA - FORT HILLS OILS SANDS PROJECT
11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE VA07045592

Project: Fort Hills

P.O. No.: 4500567822

This report is for 56 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 7-MAY-2007.

The following have access to data associated with this certificate:

CHRIS DOORNBOS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
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
Ag-AA45	Trace Ag - aqua regia/AAS	AAS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-MS81	38 element fusion ICP-MS	ICP-MS
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: PETRO CANADA - FORT HILLS OILS SANDS PROJECT
ATTN: CHRIS DOORNBOS
11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

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: [redacted]

Lawrence Ng, Laboratory Manager - Vancouver

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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

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11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

Project: Fort Hills

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE OF ANALYSIS VA07045592

Method	WEI-21	PGM-ICP23	PGM-ICP23	PGM-ICP23	Ag-AA45	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
Analyte	Recvd Wt.	Au	Pt	Pd	Ag	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO
Units	kg	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%
Sample Description LOR	0.02	0.001	0.005	0.001	0.2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
07-6501	1.82	<0.001	<0.005	0.001	<0.2	54.4	14.20	10.40	2.98	1.30	0.23	3.56	0.01	0.73	0.04
07-6504	1.10	<0.001	<0.005	<0.001	<0.2	37.4	9.09	4.08	22.8	1.88	0.18	2.39	0.01	0.46	0.09
07-6512	1.02	<0.001	<0.005	0.002	<0.2	31.5	10.20	3.50	25.0	2.10	0.25	2.50	0.01	0.43	0.06
07-6513	1.40	0.001	<0.005	0.002	<0.2	43.8	14.95	4.59	14.30	1.52	0.35	3.41	0.01	0.58	0.04
07-6515	1.20	0.001	<0.005	0.001	<0.2	37.8	12.90	4.31	20.2	1.64	0.30	2.94	0.01	0.56	0.05
07-6516	1.66	<0.001	<0.005	<0.001	<0.2	55.2	13.45	11.90	1.96	1.65	0.38	3.44	0.02	0.72	0.04
07-6517	2.34	<0.001	<0.005	<0.001	<0.2	46.9	12.45	7.59	11.35	3.66	0.35	3.19	0.01	0.61	0.11
07-6518	1.94	<0.001	<0.005	0.001	<0.2	43.9	12.65	4.42	13.00	3.36	0.36	3.28	0.01	0.60	0.12
07-6519	1.90	<0.001	<0.005	0.001	<0.2	38.3	10.55	5.36	20.2	2.77	0.28	2.70	0.01	0.52	0.12
07-6520	1.54	<0.001	<0.005	0.001	<0.2	17.25	4.12	1.98	41.4	1.48	0.12	1.08	0.01	0.19	0.11
07-6521	1.52	<0.001	<0.005	<0.001	<0.2	38.8	8.98	3.09	21.8	3.11	0.21	2.37	0.01	0.50	0.10
07-6522	1.82	0.001	<0.005	<0.001	<0.2	42.4	11.55	4.11	17.20	3.01	0.26	3.01	0.01	0.59	0.09
07-6523	2.12	<0.001	<0.005	0.001	<0.2	42.9	11.55	4.17	17.80	2.62	0.26	2.94	0.01	0.59	0.08
07-6524	2.36	<0.001	<0.005	0.001	<0.2	25.5	6.72	2.71	34.7	1.70	0.16	1.72	0.01	0.34	0.08
07-6525	2.14	0.001	<0.005	0.001	<0.2	28.7	8.16	2.83	30.0	1.96	0.21	2.12	0.01	0.41	0.08
07-6526	1.90	0.001	<0.005	0.001	<0.2	26.5	7.05	2.83	32.2	2.12	0.16	1.80	0.01	0.36	0.07
07-6527	2.00	<0.001	<0.005	<0.001	<0.2	13.65	4.14	1.98	42.0	2.10	0.10	1.06	<0.01	0.18	0.05
07-6528	1.74	<0.001	<0.005	<0.001	<0.2	13.45	4.11	1.98	41.4	2.66	0.10	1.06	<0.01	0.18	0.05
07-6529	2.28	<0.001	<0.005	<0.001	<0.2	14.10	4.33	1.92	40.8	3.10	0.11	1.11	<0.01	0.18	0.05
07-6530	1.76	0.001	<0.005	<0.001	<0.2	15.35	4.18	1.86	40.5	2.96	0.11	1.09	0.01	0.19	0.06
07-6531	1.64	<0.001	<0.005	0.002	<0.2	56.3	15.50	9.55	0.84	1.30	0.31	3.91	0.02	0.81	0.03
07-6532	2.70	0.001	<0.005	0.001	<0.2	24.9	5.95	3.79	34.7	1.55	0.14	1.54	0.01	0.29	0.13
07-6533	2.14	<0.001	<0.005	<0.001	<0.2	35.7	7.97	3.71	25.3	2.83	0.16	2.08	0.01	0.45	0.11
07-6534	1.16	0.001	<0.005	<0.001	<0.2	32.3	8.93	3.39	26.3	2.57	0.19	2.30	0.01	0.44	0.09
07-6535	1.74	<0.001	<0.005	0.002	<0.2	39.1	10.40	3.50	20.4	2.38	0.21	2.65	0.01	0.52	0.09
07-6536	2.40	<0.001	<0.005	<0.001	<0.2	26.9	6.87	2.96	32.9	1.62	0.15	1.76	0.01	0.35	0.09
07-6537	1.70	0.001	<0.005	0.001	<0.2	23.3	5.96	2.22	35.8	1.55	0.13	1.56	0.01	0.30	0.07
07-6538	1.56	<0.001	<0.005	0.003	<0.2	32.6	8.42	3.44	26.0	2.45	0.18	2.15	0.01	0.44	0.08
07-6539	1.28	<0.001	<0.005	<0.001	<0.2	13.05	3.97	1.53	43.1	1.62	0.11	1.02	<0.01	0.17	0.06
07-6540	2.12	0.001	<0.005	0.002	<0.2	13.40	4.26	1.83	41.3	2.58	0.11	1.09	<0.01	0.19	0.06
07-6541	1.74	<0.001	<0.005	<0.001	<0.2	12.50	4.05	1.77	42.4	2.63	0.11	1.04	<0.01	0.17	0.05
07-6542	2.20	0.001	<0.005	0.001	<0.2	14.15	4.26	1.78	38.3	3.33	0.12	1.13	0.01	0.19	0.05
07-6543	1.88	<0.001	<0.005	0.001	<0.2	9.62	3.12	1.37	44.3	2.12	0.10	0.81	<0.01	0.12	0.05
07-6544	1.64	<0.001	<0.005	0.001	<0.2	12.05	3.91	2.58	42.4	2.18	0.11	1.02	<0.01	0.16	0.05
07-6545	0.54	0.001	<0.005	0.001	<0.2	10.40	3.31	1.44	44.9	2.07	0.09	0.86	<0.01	0.13	0.05
07-6546	1.86	<0.001	<0.005	<0.001	<0.2	55.7	16.05	5.61	4.10	2.07	0.54	4.08	0.01	0.78	0.03
07-6547	1.94	<0.001	<0.005	<0.001	<0.2	35.3	9.72	4.68	28.3	1.85	0.32	2.45	0.01	0.47	0.12
07-6548	1.90	0.002	<0.005	0.002	<0.2	19.45	4.63	1.88	39.1	1.27	0.15	1.24	<0.01	0.22	0.09
07-6549	1.72	<0.001	<0.005	<0.001	<0.2	34.1	9.04	2.94	27.1	2.10	0.26	2.34	0.01	0.43	0.06
07-6550	1.72	<0.001	<0.005	<0.001	<0.2	17.00	4.89	1.96	43.0	1.62	0.14	1.26	0.01	0.22	0.05

Comments: Low whole rock totals were confirmed with a reanalysis.

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11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

Project: Fort Hills

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE OF ANALYSIS VA07045592

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	P2O5	SrO	BaO	LOI	Total	Ag	Ba	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	Units	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.01	0.01	1	0.5	0.5	0.5	10	0.01	5	0.05	0.03	0.03
07-6501		0.37	0.03	0.06	10.30	98.6	<1	448	72.3	17.1	90	6.85	25	7.33	4.31	1.74
07-6504		0.17	0.03	0.04	19.60	98.2	<1	334	41.8	11.9	50	4.23	14	3.22	1.83	0.79
07-6512		0.12	0.03	0.03	22.4	98.1	<1	225	42.2	10.3	60	5.04	13	2.87	1.65	0.80
07-6513		0.09	0.02	0.05	14.40	98.1	<1	422	54.3	15.5	80	7.97	20	3.33	1.96	0.89
07-6515		0.11	0.02	0.03	17.25	98.1	<1	260	54.8	12.8	70	6.47	14	3.71	2.07	0.96
07-6516		0.20	0.03	0.06	11.05	100.0	<1	434	62.9	17.5	90	5.82	19	5.32	3.02	1.32
07-6517		0.18	0.03	0.04	11.50	98.0	<1	328	54.1	15.3	80	5.58	15	4.14	2.32	1.02
07-6518		0.17	0.02	0.04	16.20	98.1	<1	346	54.0	13.5	60	5.97	14	3.91	2.22	0.96
07-6519		0.16	0.02	0.03	17.15	98.2	<1	272	45.6	15.0	60	4.63	13	3.52	1.93	0.89
07-6520		0.07	0.03	0.02	32.2	100.0	<1	133.0	24.7	6.7	30	2.06	9	2.09	1.14	0.55
07-6521		0.10	0.02	0.04	20.9	100.0	<1	286	44.6	8.3	60	3.81	11	3.58	2.06	0.87
07-6522		0.11	0.02	0.04	17.70	100.0	<1	322	52.1	12.6	70	5.39	13	3.74	2.22	0.93
07-6523		0.12	0.02	0.04	17.15	100.5	<1	304	51.9	14.4	70	5.24	17	3.89	2.21	0.99
07-6524		0.08	0.03	0.03	26.2	100.0	<1	257	33.4	8.9	40	3.05	7	2.65	1.45	0.67
07-6525		0.09	0.03	0.03	25.2	99.8	<1	252	38.7	8.5	50	3.74	12	2.94	1.60	0.67
07-6526		0.09	0.03	0.03	26.5	99.8	<1	236	32.8	8.6	40	3.18	17	2.50	1.37	0.59
07-6527		0.04	0.03	0.03	34.2	99.6	<1	233	17.2	4.7	20	1.88	7	1.28	0.74	0.34
07-6528		0.04	0.03	0.01	35.1	100.0	<1	105.5	17.1	5.4	30	1.90	8	1.25	0.70	0.31
07-6529		0.05	0.03	0.01	34.3	100.0	<1	107.0	17.6	5.5	30	2.01	9	1.22	0.73	0.34
07-6530		0.03	0.03	0.01	33.4	99.8	<1	100.0	18.9	4.6	30	1.87	7	1.54	0.83	0.37
07-6531		0.37	0.05	0.05	9.39	98.4	<1	425	79.0	22.2	100	7.43	20	6.87	3.77	1.63
07-6532		0.18	0.04	0.03	25.5	98.8	<1	235	31.8	9.2	40	2.81	10	2.75	1.55	0.72
07-6533		0.16	0.02	0.04	21.6	100.0	<1	283	40.6	8.2	50	3.48	12	3.33	1.85	0.78
07-6534		0.11	0.03	0.03	23.1	99.8	<1	237	41.1	8.5	60	4.17	11	3.19	1.76	0.77
07-6535		0.09	0.02	0.03	19.60	99.0	<1	282	48.5	12.0	60	5.04	16	3.70	2.09	0.93
07-6536		0.08	0.03	0.02	25.9	99.6	<1	197.5	34.5	10.1	40	3.21	10	2.81	1.60	0.68
07-6537		0.07	0.03	0.02	29.1	100.0	<1	176.5	30.1	6.5	40	2.77	9	2.43	1.37	0.60
07-6538		0.11	0.02	0.03	22.5	98.4	<1	247	41.5	11.2	50	4.01	16	3.19	1.79	0.79
07-6539		0.05	0.03	0.01	35.2	99.9	<1	118.5	17.2	4.0	30	1.74	7	1.35	0.73	0.36
07-6540		0.07	0.04	0.02	35.2	100.0	<1	123.0	17.6	5.4	30	1.85	8	1.41	0.73	0.32
07-6541		0.05	0.04	0.01	35.4	100.0	<1	111.5	16.1	4.9	30	1.81	8	1.16	0.65	0.33
07-6542		0.06	0.04	0.01	34.6	98.0	<1	125.5	17.9	5.5	30	1.85	10	1.43	0.78	0.39
07-6543		0.04	0.04	0.01	37.0	98.7	<1	98.8	12.9	4.6	20	1.44	9	1.00	0.57	0.25
07-6544		0.06	0.03	0.02	33.6	98.2	<1	210	15.3	6.0	30	1.80	8	1.17	0.65	0.33
07-6545		0.04	0.03	0.01	36.7	100.0	<1	97.6	13.5	5.0	20	1.61	9	1.05	0.57	0.29
07-6546		0.20	0.03	0.06	9.81	99.1	<1	478	72.8	17.1	100	7.39	21	4.77	3.11	1.18
07-6547		0.18	0.03	0.04	14.60	98.1	<1	284	44.4	12.5	60	3.96	12	3.04	1.82	0.76
07-6548		0.09	0.03	0.02	26.4	94.6	<1	181.5	27.4	6.9	40	2.12	8	2.04	1.17	0.49
07-6549		0.10	0.03	0.03	19.70	98.2	<1	278	43.5	9.2	60	4.02	16	2.93	1.73	0.74
07-6550		0.07	0.03	0.03	27.7	98.0	<1	264	23.7	6.6	30	2.23	12	1.77	1.03	0.46

Comments: Low whole rock totals were confirmed with a reanalysis.

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To: PETRO CANADA - FORT HILLS OILS SANDS PROJECT
11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

Project: Fort Hills

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE OF ANALYSIS VA07045592

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ga	Gd	Hf	Ho	La	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.05	0.2	0.01	0.5	0.01	2	0.2	0.1	5	5	0.03	0.2	0.03	1
07-6501		18.2	7.75	6.2	1.42	35.3	0.58	<2	13.2	35.0	49	10	8.34	132.5	6.68	3
07-6504		11.1	3.56	4.5	0.61	20.5	0.26	<2	8.5	18.7	31	7	4.74	86.5	3.34	2
07-6512		12.5	3.42	3.0	0.55	20.9	0.23	<2	7.7	18.7	32	8	4.74	92.3	3.36	2
07-6513		18.6	3.99	5.5	0.63	28.1	0.29	<2	10.6	22.9	49	15	5.97	135.5	4.04	2
07-6515		15.4	4.36	2.9	0.69	27.7	0.28	<2	9.8	24.2	40	10	6.29	110.5	4.23	2
07-6516		16.0	6.01	5.3	0.99	30.8	0.41	<2	12.0	29.7	58	8	7.19	115.0	5.46	2
07-6517		15.4	4.53	3.6	0.76	26.5	0.33	<2	10.7	24.1	45	6	6.06	112.0	4.43	2
07-6518		15.9	4.43	4.0	0.73	26.6	0.32	<2	10.8	23.7	35	7	6.03	118.5	4.25	2
07-6519		12.6	3.93	3.5	0.64	23.0	0.29	<2	9.2	20.5	48	6	5.14	92.9	3.72	2
07-6520		5.3	2.35	2.5	0.38	11.4	0.16	<2	3.8	11.7	18	6	2.92	41.2	2.32	1
07-6521		10.6	3.95	5.2	0.69	21.3	0.29	<2	8.9	20.4	23	6	5.06	79.8	3.68	2
07-6522		14.3	4.26	4.4	0.69	25.2	0.31	<2	10.4	23.0	36	5	5.84	107.5	4.20	2
07-6523		13.9	4.47	3.5	0.73	25.4	0.32	<2	10.4	22.9	39	6	5.79	105.0	4.27	2
07-6524		8.0	3.00	2.6	0.49	17.8	0.21	<2	6.2	15.2	27	6	3.80	61.4	2.75	1
07-6525		9.3	3.29	2.7	0.53	19.1	0.23	<2	7.2	17.6	26	6	4.39	73.4	3.29	1
07-6526		8.3	2.75	2.2	0.45	15.8	0.19	<2	6.3	14.6	23	6	3.71	62.5	2.73	1
07-6527		5.1	1.41	1.0	0.25	12.0	0.10	<2	3.2	7.7	14	<5	1.96	38.1	1.43	1
07-6528		5.1	1.41	1.0	0.23	8.3	0.10	<2	3.2	7.7	21	<5	1.92	38.3	1.33	1
07-6529		5.6	1.43	1.5	0.23	8.3	0.10	<2	3.4	7.8	19	5	1.95	40.5	1.45	1
07-6530		5.3	1.69	1.7	0.29	8.9	0.11	<2	3.5	8.6	14	<5	2.14	38.4	1.52	1
07-6531		20.8	7.45	5.3	1.28	38.7	0.50	<2	14.7	37.3	65	8	9.01	151.0	6.94	3
07-6532		7.6	3.16	2.4	0.51	15.1	0.20	<2	5.3	14.9	29	7	3.68	55.9	2.89	1
07-6533		9.9	3.81	3.3	0.62	19.6	0.26	<2	8.1	18.3	23	5	4.62	73.6	3.46	1
07-6534		11.2	3.51	2.5	0.58	19.9	0.24	<2	8.2	18.2	24	5	4.62	85.3	3.36	2
07-6535		13.2	4.11	3.0	0.71	24.4	0.29	<2	9.7	21.7	37	6	5.40	98.3	4.02	2
07-6536		8.7	3.12	4.4	0.53	16.8	0.22	<2	6.5	15.8	29	6	3.91	66.3	2.99	1
07-6537		7.5	2.75	1.9	0.46	14.5	0.18	<2	5.7	13.7	21	5	3.46	58.3	2.58	1
07-6538		10.9	3.64	2.9	0.60	20.2	0.24	<2	8.2	18.8	27	7	4.66	82.6	3.46	1
07-6539		5.1	1.52	1.1	0.25	8.8	0.10	<2	3.1	7.9	17	<5	1.97	36.9	1.43	1
07-6540		5.5	1.46	1.0	0.25	8.3	0.11	<2	3.3	7.9	17	<5	1.95	39.8	1.46	1
07-6541		5.1	1.36	0.9	0.23	7.8	0.10	<2	3.0	7.2	17	<5	1.80	38.5	1.30	1
07-6542		5.8	1.60	1.1	0.26	8.7	0.11	<2	3.5	8.1	19	<5	2.03	40.8	1.44	1
07-6543		4.1	1.18	0.7	0.19	6.0	0.07	<2	2.2	5.8	18	<5	1.48	29.9	1.07	1
07-6544		5.3	1.31	0.9	0.23	8.4	0.09	<2	3.0	6.9	26	<5	1.75	38.2	1.18	1
07-6545		4.8	1.14	0.7	0.20	6.4	0.08	<2	2.5	6.1	19	<5	1.52	34.0	1.13	1
07-6546		19.5	5.96	5.1	1.03	35.1	0.43	<2	13.7	30.1	39	5	8.13	140.0	5.84	3
07-6547		10.8	3.60	3.5	0.59	21.3	0.26	<2	8.0	18.6	33	<5	4.83	77.5	3.58	2
07-6548		6.1	2.34	2.6	0.39	11.7	0.16	<2	4.4	11.9	17	<5	3.02	43.8	2.36	1
07-6549		11.3	3.37	3.1	0.59	20.5	0.23	<2	7.7	18.1	21	5	4.77	81.9	3.44	2
07-6550		6.4	2.05	1.4	0.35	11.8	0.13	<2	4.3	10.7	15	5	2.72	45.3	2.07	1

Comments: Low whole rock totals were confirmed with a reanalysis.

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To: PETRO CANADA - FORT HILLS OILS SANDS PROJECT
11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

Project: Fort Hills

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE OF ANALYSIS VA07045592

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	5	2
07-6501		242	0.9	1.16	10.35	0.5	0.61	2.52	108	2	41.4	3.88	76	209
07-6504		259	0.6	0.54	6.43	<0.5	0.27	1.51	69	3	16.0	1.75	48	182
07-6512		200	0.5	0.49	6.37	<0.5	0.23	1.29	69	3	14.2	1.52	50	111
07-6513		144.5	0.7	0.57	9.50	<0.5	0.29	1.89	100	2	16.1	1.95	70	219
07-6515		167.0	0.7	0.64	8.96	<0.5	0.29	1.69	84	5	17.8	1.92	61	101
07-6516		218	0.8	0.89	9.10	<0.5	0.44	2.10	89	3	26.4	2.82	69	182
07-6517		198.5	0.7	0.68	8.19	<0.5	0.32	1.77	86	1	21.0	2.21	65	132
07-6518		175.5	0.8	0.66	8.47	<0.5	0.31	1.66	90	2	19.2	2.14	60	155
07-6519		170.5	0.6	0.59	7.04	<0.5	0.29	1.69	72	1	16.9	1.84	52	135
07-6520		252	0.3	0.37	3.15	<0.5	0.16	0.84	32	<1	11.0	1.01	22	102
07-6521		175.0	0.6	0.60	6.72	<0.5	0.29	1.64	61	1	18.0	1.89	40	200
07-6522		164.5	0.7	0.64	7.96	<0.5	0.32	1.78	82	2	19.0	2.10	57	170
07-6523		165.5	0.7	0.66	8.00	<0.5	0.32	1.72	80	3	19.1	2.05	65	123
07-6524		215	0.4	0.44	4.76	<0.5	0.20	1.13	48	1	13.6	1.40	32	99
07-6525		217	0.5	0.49	5.73	<0.5	0.23	1.37	55	3	14.7	1.55	39	97
07-6526		199.0	0.4	0.40	4.93	<0.5	0.21	1.18	48	3	12.3	1.30	36	78
07-6527		248	0.2	0.23	2.41	<0.5	0.11	0.57	30	2	6.7	0.71	22	33
07-6528		271	0.2	0.22	2.43	<0.5	0.10	0.58	32	5	6.4	0.68	24	34
07-6529		264	0.2	0.22	2.54	<0.5	0.10	0.62	33	<1	6.6	0.69	23	56
07-6530		247	0.2	0.24	2.69	<0.5	0.12	0.67	30	2	7.7	0.73	23	60
07-6531		411	1.0	1.13	11.35	<0.5	0.54	2.53	119	2	34.8	3.43	85	181
07-6532		324	0.4	0.46	4.21	<0.5	0.21	1.06	45	1	15.1	1.36	31	92
07-6533		208	0.6	0.56	6.02	<0.5	0.25	1.45	55	1	16.6	1.71	42	124
07-6534		229	0.6	0.53	6.16	<0.5	0.26	1.39	67	4	15.4	1.60	50	89
07-6535		173.0	0.7	0.61	7.41	<0.5	0.29	1.66	75	4	18.0	1.96	57	105
07-6536		207	0.5	0.49	5.01	<0.5	0.23	1.24	52	2	14.3	1.47	34	181
07-6537		222	0.4	0.42	4.27	<0.5	0.20	1.00	47	1	12.6	1.23	26	66
07-6538		198.0	0.6	0.53	6.38	<0.5	0.26	1.54	64	3	16.0	1.71	49	97
07-6539		253	0.2	0.25	2.35	<0.5	0.11	0.60	32	1	7.3	0.67	25	32
07-6540		267	0.2	0.22	2.45	<0.5	0.11	0.63	33	1	7.0	0.67	28	31
07-6541		293	0.2	0.21	2.29	<0.5	0.10	0.60	33	5	6.3	0.65	23	27
07-6542		285	0.3	0.23	2.67	<0.5	0.12	0.66	34	3	7.1	0.75	28	36
07-6543		296	0.2	0.18	1.72	<0.5	0.08	0.47	24	2	5.5	0.53	21	20
07-6544		284	0.2	0.20	2.20	<0.5	0.10	0.56	32	5	6.2	0.60	29	25
07-6545		293	0.2	0.18	1.88	<0.5	0.08	0.48	29	5	5.5	0.56	25	20
07-6546		298	1.1	0.87	12.80	<0.5	0.43	2.81	119	2	26.2	2.76	81	164
07-6547		292	0.6	0.55	6.99	<0.5	0.27	1.71	68	1	17.0	1.65	48	128
07-6548		269	0.3	0.37	3.84	<0.5	0.17	1.00	41	1	11.5	1.03	31	97
07-6549		235	0.6	0.53	7.08	<0.5	0.26	1.70	74	2	15.9	1.60	59	105
07-6550		263	0.3	0.30	3.26	<0.5	0.14	0.89	37	<1	9.7	0.90	33	42

Comments: Low whole rock totals were confirmed with a reanalysis.

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CALGARY AB T2P 3E3

Project: Fort Hills

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE OF ANALYSIS VA07045592

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	Ag-AA45 Ag ppm 0.2	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01
07-6551		1.40	<0.001	<0.005	0.002	<0.2	12.40	3.85	3.43	43.0	2.07	0.11	1.00	<0.01	0.14	0.07
07-6552		2.14	<0.001	<0.005	0.001	<0.2	12.40	3.91	2.43	42.6	2.47	0.11	1.02	<0.01	0.14	0.06
07-6553		1.50	<0.001	<0.005	0.001	<0.2	13.70	4.11	1.96	43.0	3.31	0.12	1.08	<0.01	0.17	0.05
07-6554		1.54	<0.001	<0.005	0.001	<0.2	12.55	3.96	2.09	45.2	2.55	0.11	1.02	<0.01	0.16	0.03
07-6555		2.00	<0.001	<0.005	0.002	<0.2	10.15	3.31	1.58	47.4	2.14	0.09	0.86	<0.01	0.12	0.03
07-6556		1.82	<0.001	<0.005	0.001	<0.2	11.30	3.72	1.47	45.5	1.90	0.09	0.95	<0.01	0.14	0.03
07-6557		1.96	0.001	<0.005	0.002	<0.2	21.7	5.63	2.78	35.8	2.47	0.19	1.70	0.01	0.29	0.04
07-6558		1.52	0.003	<0.005	0.012	<0.2	30.2	10.55	3.67	26.9	1.48	0.30	2.54	0.01	0.37	0.06
07-6559		1.70	0.001	<0.005	0.002	<0.2	33.2	10.90	4.23	26.1	1.51	0.32	2.46	0.01	0.43	0.06
07-6560		2.28	0.001	<0.005	0.004	<0.2	45.8	16.55	4.72	11.50	1.63	0.46	3.67	0.01	0.67	0.04
07-6561		1.32	0.001	<0.005	0.003	<0.2	60.5	15.60	7.40	0.42	1.16	0.26	4.05	0.02	0.80	<0.01
07-6562		1.72	<0.001	<0.005	0.001	<0.2	48.7	12.95	8.09	11.00	1.83	0.23	3.26	0.01	0.62	0.08
07-6563		1.88	<0.001	<0.005	<0.001	<0.2	42.5	9.62	4.34	18.15	2.93	0.19	2.61	0.01	0.50	0.07
07-6565		2.16	<0.001	<0.005	0.002	<0.2	46.6	13.10	4.29	12.75	3.03	0.25	3.42	0.01	0.64	0.06
07-6566		1.58	0.001	<0.005	0.003	<0.2	33.7	9.10	2.89	26.2	1.98	0.18	2.34	0.01	0.44	0.06
07-6569		1.32	<0.001	<0.005	0.001	<0.2	35.3	9.33	3.33	23.9	2.42	0.19	2.44	0.01	0.46	0.05

Comments: Low whole rock totals were confirmed with a reanalysis.

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To: PETRO CANADA - FORT HILLS OILS SANDS PROJECT
11TH FLOOR - PCCW
150 - 6TH AVENUE SW
CALGARY AB T2P 3E3

Project: Fort Hills

Finalized Date: 15-MAY-2007
Account: PETCAN

CERTIFICATE OF ANALYSIS VA07045592

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	P2O5	SrO	BaO	LOI	Total	Ag	Ba	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
	Units	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.01	0.01	1	0.5	0.5	0.5	10	0.01	5	0.05	0.03	0.03
07-6551		0.03	0.04	0.02	31.9	98.1	<1	161.5	16.5	8.2	20	1.77	14	1.15	0.69	0.34
07-6552		0.02	0.04	0.01	27.6	92.8	<1	111.0	16.7	6.0	20	1.88	8	1.14	0.71	0.30
07-6553		0.05	0.03	0.02	30.7	98.3	<1	202	19.6	5.7	30	2.04	11	1.42	0.84	0.38
07-6554		0.05	0.03	0.02	31.3	99.1	<1	187.0	15.8	6.1	20	1.72	13	1.08	0.66	0.29
07-6555		0.03	0.03	0.01	32.4	98.2	<1	93.3	14.1	4.4	20	1.61	10	0.96	0.56	0.26
07-6556		0.04	0.03	0.01	33.9	99.1	<1	109.5	15.4	3.9	20	1.79	9	1.06	0.63	0.30
07-6557		0.06	0.03	0.03	26.7	98.4	<1	240	29.6	8.2	40	3.14	13	2.04	1.20	0.55
07-6558		0.06	0.03	0.03	20.0	96.2	<1	264	40.2	11.9	60	5.78	16	2.46	1.54	0.71
07-6559		0.06	0.02	0.02	19.05	98.4	<1	220	46.9	12.7	60	5.75	18	2.95	1.82	0.83
07-6560		0.11	0.02	0.04	13.20	98.4	<1	342	69.0	17.5	90	9.07	19	4.12	2.39	1.15
07-6561		0.21	0.02	0.05	7.84	98.3	<1	447	78.9	19.7	100	7.63	19	6.44	3.83	1.64
07-6562		0.22	0.05	0.05	10.90	98.0	<1	420	65.9	16.3	80	6.50	17	4.89	2.89	1.27
07-6563		0.13	0.02	0.04	17.30	98.4	<1	314	48.2	10.8	60	4.34	14	3.72	2.21	0.89
07-6565		0.13	0.02	0.05	14.75	99.1	<1	392	58.4	14.6	80	6.34	17	4.22	2.56	1.11
07-6566		0.10	0.02	0.03	21.8	98.9	<1	233	41.3	10.2	50	4.08	13	3.04	1.79	0.78
07-6569		0.08	0.02	0.03	20.6	98.2	<1	249	44.8	10.0	50	4.29	16	3.27	1.96	0.83

Comments: Low whole rock totals were confirmed with a reanalysis.

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Project: Fort Hills

Finalized Date: 15-MAY-2007
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CERTIFICATE OF ANALYSIS VA07045592

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ga	Gd	Hf	Ho	La	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.05	0.2	0.01	0.5	0.01	2	0.2	0.1	5	5	0.03	0.2	0.03	1
07-6551		5.4	1.35	1.0	0.24	8.0	0.10	<2	3.1	7.3	21	<5	1.87	35.6	1.42	1
07-6552		5.3	1.34	0.9	0.23	8.0	0.10	<2	3.1	7.3	17	<5	1.90	37.6	1.36	1
07-6553		6.1	1.64	1.3	0.27	9.4	0.12	<2	3.6	8.5	16	5	2.24	41.0	1.69	1
07-6554		4.9	1.33	1.0	0.23	11.4	0.09	<2	2.9	7.1	17	<5	1.78	33.7	1.32	1
07-6555		4.4	1.15	0.8	0.20	6.9	0.08	<2	2.4	6.3	13	<5	1.60	31.1	1.21	1
07-6556		4.7	1.24	0.9	0.21	7.6	0.09	<2	2.7	6.8	10	<5	1.76	34.6	1.29	1
07-6557		8.4	2.48	1.8	0.40	14.7	0.17	<2	5.4	13.1	22	<5	3.37	60.9	2.47	1
07-6558		13.2	3.09	2.1	0.49	20.0	0.21	<2	7.3	17.8	32	9	4.63	97.6	3.36	2
07-6559		12.9	3.65	2.4	0.59	23.6	0.25	<2	7.9	20.7	36	10	5.33	93.4	3.79	2
07-6560		20.4	5.16	3.8	0.80	35.1	0.35	<2	12.5	29.5	48	12	7.84	148.5	5.27	3
07-6561		20.6	7.41	6.0	1.28	38.5	0.53	<2	15.5	36.3	45	8	9.16	149.5	7.25	3
07-6562		16.3	5.90	3.8	0.96	32.6	0.41	<2	11.5	30.0	46	9	7.53	120.0	5.69	2
07-6563		12.2	4.18	4.0	0.73	23.3	0.31	<2	9.4	21.5	25	5	5.53	88.3	4.37	2
07-6565		16.1	4.96	4.1	0.83	29.5	0.36	<2	12.1	25.7	33	6	6.57	121.0	4.87	2
07-6566		10.9	3.79	2.6	0.62	19.9	0.26	<2	8.1	18.4	27	5	4.68	79.4	3.62	1
07-6569		11.9	3.82	3.1	0.66	22.2	0.27	<2	8.9	20.2	21	6	5.11	86.7	3.94	2

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Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5	0.03	5	2
07-6551		321	0.2	0.19	2.35	<0.5	0.10	0.62	31	<1	6.4	0.61	50	30
07-6552		325	0.2	0.20	2.32	<0.5	0.10	0.63	32	<1	6.4	0.60	19	26
07-6553		351	0.2	0.25	2.69	<0.5	0.12	0.74	34	1	7.8	0.79	27	41
07-6554		298	0.2	0.20	2.20	<0.5	0.09	0.62	27	4	6.2	0.61	23	29
07-6555		327	0.1	0.19	1.85	<0.5	0.08	0.52	25	<1	5.5	0.53	25	24
07-6556		316	0.2	0.19	2.04	<0.5	0.08	0.56	27	<1	5.8	0.56	18	27
07-6557		272	0.4	0.37	4.28	<0.5	0.17	1.06	47	<1	10.5	1.14	32	55
07-6558		215	0.5	0.45	6.36	<0.5	0.21	1.47	71	1	12.9	1.42	54	61
07-6559		193.5	0.5	0.54	7.23	<0.5	0.25	1.81	73	1	15.4	1.66	49	71
07-6560		166.0	0.8	0.72	11.05	<0.5	0.35	2.02	115	3	20.4	2.41	74	123
07-6561		173.0	1.0	1.09	11.85	<0.5	0.53	2.73	121	4	33.0	3.52	92	181
07-6562		406	0.8	0.87	9.29	<0.5	0.41	2.18	99	1	25.8	2.70	65	128
07-6563		219	0.6	0.64	7.18	<0.5	0.32	1.84	73	1	19.8	2.14	50	127
07-6565		169.0	0.8	0.74	9.21	<0.5	0.35	1.97	98	2	21.1	2.47	60	127
07-6566		193.5	0.5	0.52	6.14	<0.5	0.26	1.50	64	1	16.0	1.75	43	83
07-6569		210	0.6	0.59	6.92	<0.5	0.26	1.71	73	<1	16.9	1.81	51	99

Comments: Low whole rock totals were confirmed with a reanalysis.