BC Geological Survey Assessment Report 31645

HD MINERAL PROPERTY

DIAMOND DRILLING ASSESSMENT REPORT

2010



OMINECA MINING DIVISION, BRITISH COLUMBIA 93L047 LATITUDE: 54° 27' N LONGITUDE: 126° 39' W GPS: NAD 83 UTM ZONE 9 NORTHING: 6035660 EASTING: 0651911

OWNERS: JOHN WESLEY MOLL, GLORIA MAY MERKLEY, DANIEL MORICE MERKLEY

DRILL CORE LOGGED BY: RICK KEMP, P.GEO.

REPORT BY DANIEL MERKLEY

LOGICAL SURVEY BRANCH

ASSESSMENT REPORT

AUGUST 2010



Ministry of Energy & Mines Energy & Minerals Division Geological Survey Branch



ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]		TOTAL COST
HD MINERAL PROPERTY DIAMOND DRILLI		
AUTHOR(S) DANIEL MERKLEY	SIGNATURE(S)	Daniel Mersley
NOTICE OF WORK PERMIT NUMBER(S)/DATE(S)		
STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S	S)/DATE(S)467993	31
PROPERTY NAMEHD	· · · · · · · · · · · · · · · · · · ·	
CLAIM NAME(S) (on which work was done) TENURE	NUMBER: 516488	
COMMODITIES SOUGHT Cu, Zn, Pb, Mo,	Ag, Au	
MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN	93L-203, 93L-204, 9	93L-205
MINING DIVISION OMINECA		
LATITUDE54 o7* LON	GITUDE 126 o	39 (at centre of work)
OWNER(S)		
1)JOHN WESLEY MOLL	2) DAN	NIEL MORICE MERKLEY
	GLO	DRIA MAY MERKLEY
MAILING ADDRESS		
P. O. BOX 1182; HOUSTON, B. C	333	13 HWY 16 E; HOUSTON, B. C.
VOJ 1ZO	VO.	J 1Z2
OPERATOR(S) [who paid for the work]		
1) AS ABOVE	2)	
MAILING ADDRESS		
AS ABOVE		
PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy	y, structure, alteration, minerali	zation, size and attitude):
JURASSIC AGE HAZELTON GROUP TELKWA	FORMATION. MICROSYN	ENITE, GABBRO, QUARTZ FELDSPAR
PORPHYRY. RHYOLITE, ANDESITE, BASALT,	JASPER, CHERT, LIN	1ESTONE, MUDSTONE. SILICIFICATION
HEMATIZATION. SPHALERITE, CHALCOPYRITI	E, BORNITE, GALENA	, TETRAHEDRITE, FLUORITE,
MOLYBDENITE, GOLD.		
REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASS	ESSMENT REPORT NUMBE	Rs_05020, 09849, 10796, 14157,
15360, 15864, 18360, 18864, 18911, 25	891, 26288, 26577,	26887, 27195, 27456, 27810,
28456, 29129, 29567, 30313.		(OVER)

TYPE OF WORK IN	EXTENT OF WORK		PROJECT COSTS
THIS REPORT	(IN METRIC UNITS)	ON WHICH CLAIMS	APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic	····		
Induced Polarization			
Radiometric			
Seismic			
Other)
Airborne			· · · · · · · · · · · · · · · · · · ·
GEOCHEMICAL			
(number of samples analysed for)			
Soil	······································		· · · · · · · · · · · · · · · · · · ·
Silt			
Rock 1 GRAB SAMPLE/Au,	Pt, Pd by F.A.	TENURE NUMBER: 516488	\$300.00
Other			
DRILLING			
(total metres; number of holes, size) Core 1 HOLE: 25 METERS	/FX SI7F	TENURE NUMBER: 516488	\$8,661.00
			<i>40,001.00</i>
Non-core	· · · · · · · · · · · · · · · · · · ·		
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	\$8,961.00

TABLE OF CONTENTS

LOCATION, ACCESS & HISTORY	.35
CLAIM STATUS	6
2010 EXPENDITURES	14
STATEMENT OF QUALIFICATIONS (GEOLOGIST)	15
AUTHOR'S QUALIFICATIONS	16

DIAMOND DRILLING HD MINERAL PROPERTY

PURPOSE, PROCEDURE, DIAMOND DRILL HOLE SUMMARY & CONCLUSION.. 7

ROCK GEOCHEMISTRY HD MINERAL PROPERTY

PURPOSE, PROCEDURE & RESULTS	. 1	1
ASSAY CERTIFICATE	.12	2

MAPS

PROVINCIAL MAP PROPERTY LOCATION	.1
MINERAL CLAIM MAP	.2
DIAMOND DRILL HOLE HD-2010-01	.8
H111 ROCK SAMPLE LOCATION	13

FIGURES

TABLES

HD PROPERTY - DRILL HOLE LOG	
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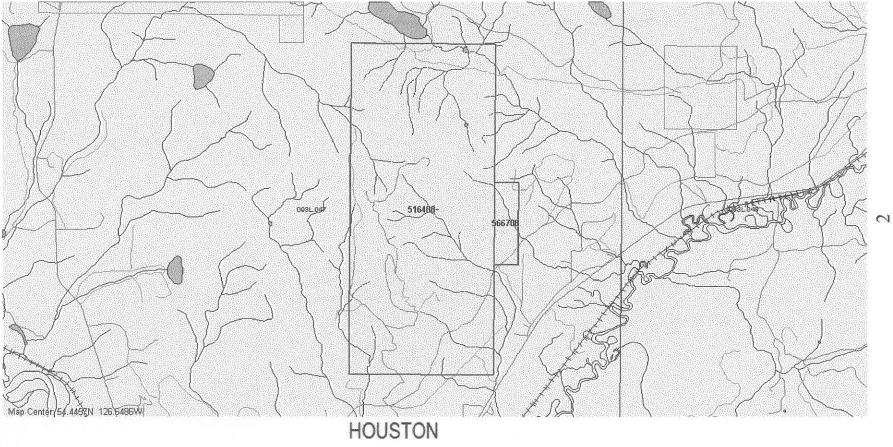
PROVINCIAL MAP PROPERTY LOCATION



Map Center: 54.4781N 124.7082W

1

MINERAL CLAIM MAP



LOCATION:

The HD mineral property is situated on Mount Harry Davis, approximately 5.5 km north of the village of Houston, in West-Central British Columbia.

ACCESS:

Access to the HD property is by way of a good gravel road named Mt. Davis Way, which departs from highway 16 at the east of the village of Houston, just before crossing the Bulkley River overpass. The road is hard-surfaced before it traverses "The North Road"; from there it is gravel surfaced and accessible with two-wheel drive vehicle. Several spur roads branch from the main access road near the crest of Mt. Harry Davis. These roads are used to service Microwave, Television and VOR (Visual Omnirange) antenna at the mountain summit. These roads and several mineral exploration roads (not accessible by vehicle) provide access to historic and more recent exploration work sites on the mountain.

HISTORY:

1908—An old post with the name *Fraser*, 1908 was discovered by **Melvin McQuatt**, a Houston prospector, on the easterly slope of Mt. Harry Davis.

1918-1920's—The Mannoth, Mison and B. C. Leader mineral claims are held by **Paul Tickoles** a Houston prospector. **Paul Tickoles** digs several test pits and trenches at various locations on Mt. Harry Davis. He also drives two adits on polymetallic mineralization at the lower slope of the mountain's north side and another south of the mountain summit. The northerly adit was driven on high-grade copper/zinc/gold, where a gold assay read 0.09 ounces per ton and the related zinc assay was greater than 40%. The southern adit was driven on a narrow zinc (blackjack) vein, which was hosted by purple fluorite.

The Minister Of Mines Annual Report for 1929 states: "The northeast of the claim was known as the B. C. Leader property in the 1920's. Work consisted of a series of open cuts which encountered zinc, silver and copper mineralization". On pages A74-A75, The Minister Of Mines Annual Report for 1931 states: "Paul Tickoles has accomplished a great deal, single-handed, at this property, in the way of open-cuts and one tunnel 30 feet in length".

1924—Two Houston-based prospectors by the names of Andrew Martenson and Martin Bellicini sink a ± 40 -foot shaft at the south-easterly region of Mt. Harry Davis.

The work targets a ± 3 -foot vein of copper-silver mineralization (Chalcopyrite, bornite, tetrahedrite), which is a larger vein of a reticulate stockwork, which extends for at least 200 meters in a northeast/southwest direction, and approximately 50 meters northwest/southeast. The two prospectors construct a log cabin comprised of large logs approaching a meter in diameter near the workings. It was stated by the old timers that some high-grade ore was shipped from this shaft to a smelter by way of the Prince Rupert port, but this is not confirmed by any historic documents.

1950's-1960's—Melvin McQuatt discovers the old workings of Paul Tickoles on the northerly slope of Mt. Harry Davis. He and William H. Merkley prospect the mountain for several years. William H. Merkley stakes the *Eagle claims* on the mountain's easterly sector.

1960's—Edward Westgarde, et al, stake copper/silver mineralization exposed at the south sector of Mt. Harry Davis during construction of "The Northroad", the logging road which connects the Houston sawmills to the Babine Lake district. Edward Westgarde and William H. Merkley option their mineral claims to Molymine Exploration Limited. The work performed by the company is detailed in *British Columbia Mines and Petroleum Report 1967, page 108.* The work included 13 trenches, for a total of 440 meters in length; and stripping 38 trenches for a total length of 1737 meters.

During the '60's **Texas Gulf Sulphur Company** also explored the southern base of Mt. Harry Davis. That company's work involved geological mapping, soil geochemistry, induced polarization and diamond drilling. The work is discussed in the publication: *British Columbia Exploration and Mining 1969 on page 121* and also in the *1970 publication on page 151*.

1976—While hunting grouse, **Wes Moll** discovers more than 30 meters of polymetallic mineralization (Cu, Zn, Pb, Ag, Au) has been exposed during construction of the access road to the VOR antenna. **Wes Moll** and **Dan Merkley** subsequently stake the *Grouse* and *Hilltop* 2-post mineral claims to cover the newly-discovered mineralization and the mineralization discovered by **Paul Tickoles** on the northerly slope of Mt. Harry Davis.

1977—The mineralization discovered by **Wes Moll** at the side of the VOR access road is investigated by **Noranda Exploration**. The company undertakes a soil sample program, which covers the newly-discovered mineralization and extends several survey lines to the north and south for several hundred meters. The program is discussed in *British Columbia Exploration and Mining 1977 on page 195*.

1981—The Endako Mines Division of Placer Development Limited restakes the ground covered by the original *HD-1*, *HD-2*, *HD-3* and *HD-4* mineral claims held by Wes Moll, Gloria Merkley and Dan Merkley with new 4-post claims. The company completes extensive programs including geological mapping, a geochemical soil survey, a geochemical rock survey and a broad VLF-EM survey, which covered the upper region of Mt. Harry Davis and centered on the area designated the *Hilltop Zone*.

1985—Wes Moll, Gloria Merkley and Dan Merkley option the *HD* property to Eldor Resources Limited. The company performs a gravitometer survey over the *Hilltop* and *Switchback Zones*; rock samples were gathered from several test pits, trenches and showings. A winky drill puts down two holes in the north area of the *Switchback Zone* where a depression and a previously completed magnetometer survey demark a northeast/southwest striking fault.

1988—After optioning the *HD* property from Wes Moll, Gloria Merkley and Dan Merkley, Equity Silver Mines Limited stakes the *HD-5* mineral claim. The company completes several hundred meters of trenching south of the *Switchback Zone*, an IP survey in the general area, soil geochemistry and rock sample analysis. Six diamond drill holes are put down in this southern region of the *HD* property for a total of 776 meters.

1993—**Teck Exploration Limited** drills a total of 649 meters for NQ size core in 4 diamond drill holes at the summit of Mt. Harry Davis on the *Hilltop* and *Chert Knoll Zones*.

1999—Wes Moll, William R. Merkley and Dan Merkley drill 86.9 meters for EX size diamond drill core in 6 holes with an X-Ray drill.

2000-2010—Wes Moll, Mary Jean Moll, William R. Merkley and Dan Merkley hold the *HD* property in good standing by performing diamond drilling, geochemical surveys and trail rehabilitation.

CLAIM STATUS:

The HD mineral property consists of 2 claims, which comprise a total of 75 contiguous cells. The area covered by the claims totals 1410.41 hectares, which is 3485.12 acres. The larger of the 2 tenures is tenure #516488, comprised of 72 cells. Tenure #566708 consists of 3 cells and is named HD1. The tenures are joined on their southeast and west borders, respectively. With acceptance of this assessment report the HD property will remain in good standing until July 25th, 2011.

The HD mineral property is owned by John Wesley Moll (33.34%), Gloria May Merkley (33.33%) and Daniel Morice Merkley (33.33%).

The description of the HD mineral property is outlined in the table below:

CLAIM NAME	TOTAL CELLS	TENURE NUMBER	OLD EXPIRY DATE	NEW EXPIRY DATE
N/A	72	516488	2010/Jun/20	2011/Jul/25
HD1	3	566708	2010/Jun/20	2011/Jul/25

DIAMOND DRILLING HD MINERAL PROPERTY

PURPOSE:

Diamond drill hole HD-2010-01 was drilled in the vicinity of an exhalite horizon with the intention to intercept the horizon at depth. Similar remobilized polymetallic mineralization occurs at the drill hole collar as that found at surface where the exhalite horizon was discovered by diamond drilling in 2003.

PROCEDURE:

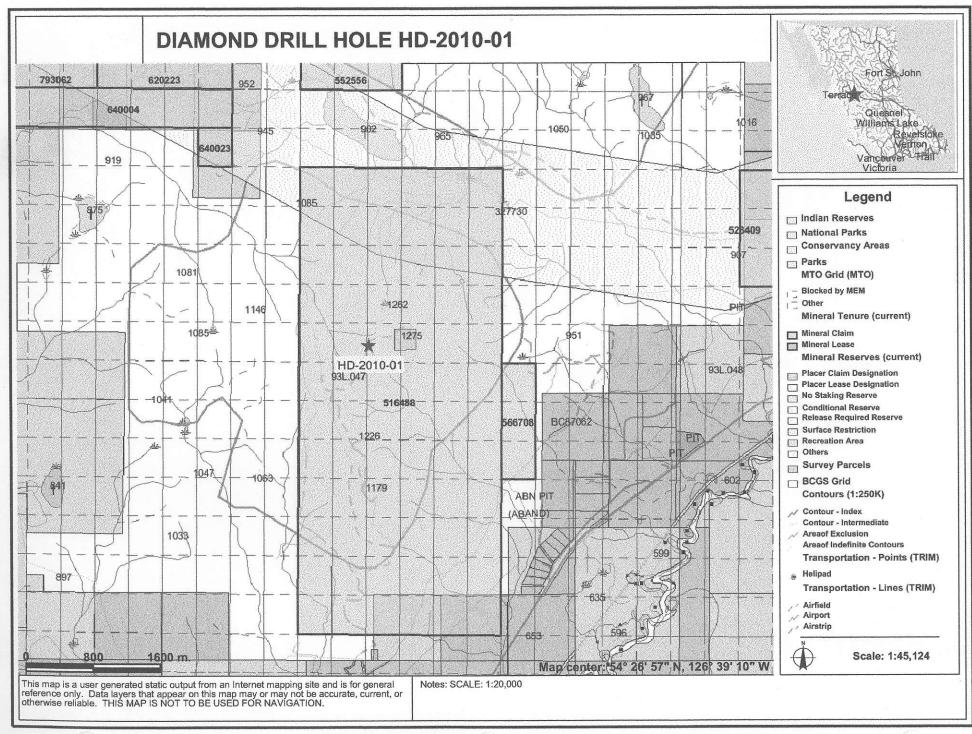
During the spring of 2010, Wes Moll, Mary Jean Moll and Dan Merkley undertook a diamond drill program of the HD mineral property. The drill site at the summit of Mount Harry Davis was shrouded in fog on the 21st of May—the first day of the drill program—and a light dusting of snow remained on the higher elevations. During the afternoon of the 22nd the fog dissipated and the 23th of May was a pleasant day. The drill program entailed 3 days: May 21st, May 22nd and May 23d. Diamond drill hole was completed on May 23d, 2010, after attaining a depth of 25 meters.

DIAMOND DRILL HOLE SUMMARY:

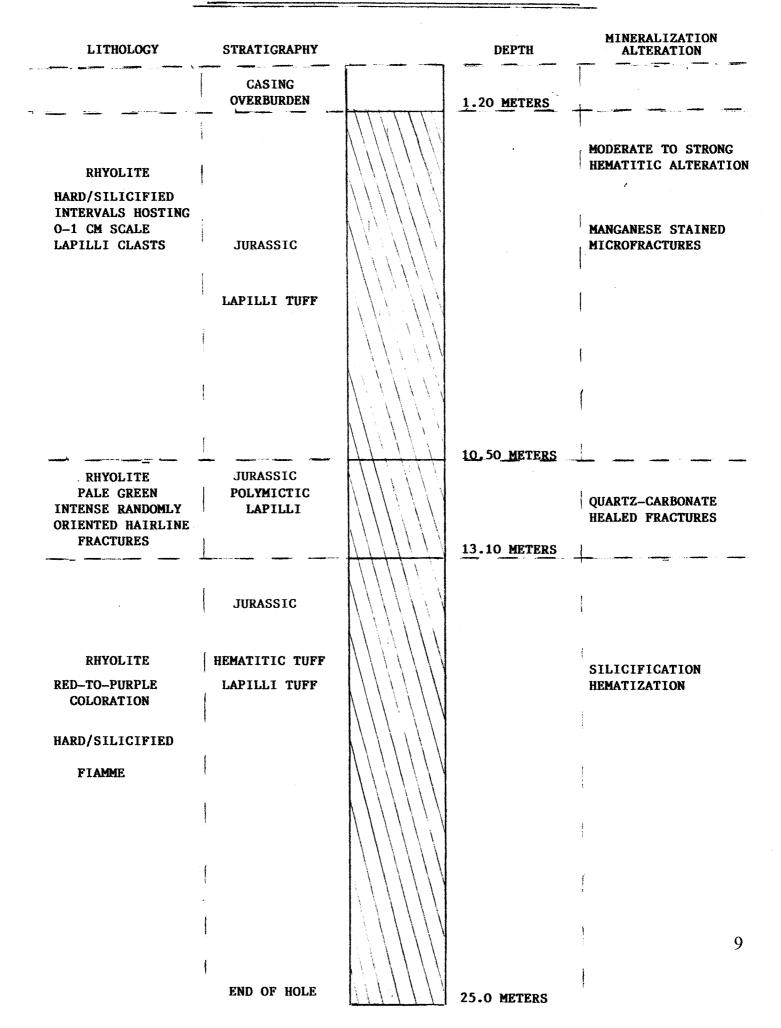
	LOCA	TION		
DDH DESIGNATION	NORTHING	EASTING	AZIMUTH	INCLINATION
HD-2010-01	0652018	6036417	N/A	90°

CONCLUSION:

Similar mineralization to that found in the exhalite horizon drilled to the notheast of diamond drill hole HD-2010-01 was not present in the drill core discussed in this report. The lack of polymetallic mineralization similar to that found in the area of the exhalite horizon at surface to the northeast suggests the exhalite horizon strikes in a different direction from that targeted by this present drill program. An inclined hole of shallow attitude could possibly be more instrumental in intercepting the exhalite horizon.



DIAMOND DRILL HOLE HD-10-01 CROSS SECTION



5 15 Northing: 6036295 Depth (m): 25m 6 16 Elevation: 1219m Core size: EX 7 17 Azimuth: NA Drill Company: Wes Mail 8 18 Dip: -90 Analytical Lab: Ves Mail 9 19 Dip Tests Dip Tests ASSA 10 20 To ADD NEW TABS below "Press CTRL+Shif+H, then double click on tab to insert new number, also changed and the set of the	Accession of the second					Constant of the		le Log	HD PROPERTY - Dril		and the second						
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DA

ROCK GEOCHEMISTRY HD MINERAL PROPERTY

PURPOSE:

A grab sample of rock was collected from the "Road Cut Showing" at the *Hilltop Zone*. The coordinates of the sample site were:

ELEVATION:	1227 METERS
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NORTHING	EASTING
6036417	0652018

A description of the rock is tabled below:

LITHOLOGY	STRATIGRAPHY	MINERALIZATION	ALTERATION
GRAY RHYOLITE SILICIFIED LIMESTONE	JURASSIC VOLCANIC/SEDIMENT	Zn (SPHALERITE ≅ 2%) Pb (GALENA ≅ 0.5 %)	SILICIFICATION CALCAREOUS ALTERATION

PROCEDURE:

The sample was collected during the early spring of 2010. At the time the winter's snow remained on Mt. Harry Davis and transport to the sample site was by snowmobile. Snow had drifted over the mineralized one hundred-foot embankment at the side of the VOR antenna access road and to reach bedrock required the removal of approximately 6 feet of snow. Several large samples were collected and a representative sample was separated from the others. The sample was fist-sized. The sample was then bagged and delivered to the Assayers Canada office in Telkwa, B. C. The sample was subsequently assayed by Fire Assay.

RESULTS:

The sample assayed 0.66 grams per tonne gold. This was a very encouraging result. When considered in concert with the zinc mineralization present in the sample, the precious metal content provides an added value for the base metal mineralization and a buffer for times of depressed base metal prices.



Assayers Canada 8282 Sherbrooke St. Vancouver, B.C. V5X 4R6 Tel: (604) 327-3436 Fax: (604) 327-3423

Quality Assaying for over 35 Years

Assay Certificate

0S-0010-RA1

Apr-07-10

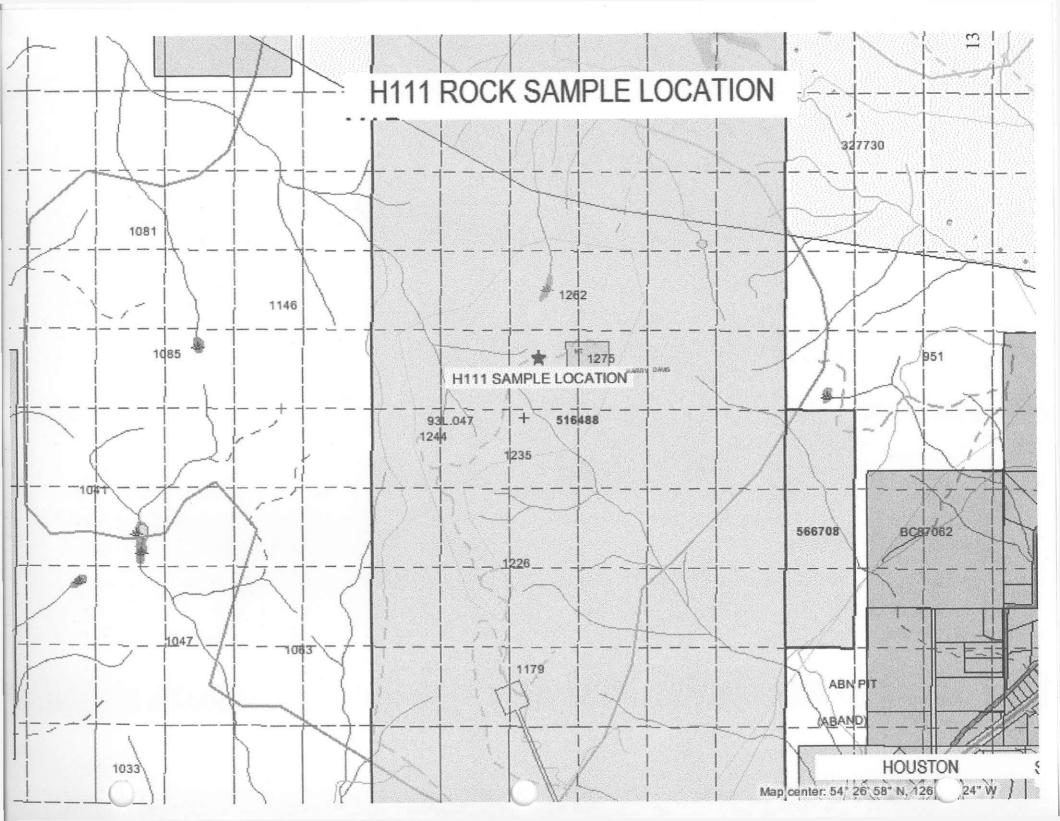
Company:Wes MollProject:HilltopAttn:Wes Moll

We *hereby certify* the following assay of 1 core sample submitted Mar-24-10

Sample	Au	Pt	Pd	Sample-wt
Name	g/tonne	g/tonne	g/tonne	Kg
1-16507	0.66	<0.01	<0.01	0.3
*DUP 1-16507	0.60	<0.01	<0.01	
*PtPd 5	1.13	1.17	1.79	
*BLANK	<0.01	<0.01	<0.01	

Au,Pt,Pd by F.A.

Ti Certified by_



2010 EXPENDITURES

ATV	(5 DAYS) @ (\$100/DAY)	\$500.00
BOARD	(3 PERSONS) X (5 DAYS) @ (\$45.00/DAY)	\$675.00
CORE LOGGING & HANDLING		
DRILLING	25 METERS (82 FEET @ \$28.00/FOOT)	\$2,296.00
MOB & DEMOB		\$1,800.00
PICKUP TRUCK	3 DAYS @ \$100.00/DAY	\$300.00
POWERSAW	3 DAYS @ \$35.00/DAY	\$105.00
REPORT PREPARATION		
ROCK DRILL (COPCO)	3 DAYS @ \$50.00/DAY	\$150.00
SAMPLE ANALYSIS & HANDLING		
TRAILER	2 DAYS @ \$65.00/DAY	\$130.00
WATER PUMP	3 DAYS @ \$35.00/DAY	\$105.00
WATER TRUCK	3 DAYS @ \$650.00/DAY	\$1,950.00

TOTAL	\$8,961.00

STATEMENT OF QUALIFICATIONS:

I, Rick Kemp, of 2769 William Ave, North Vancouver, British Columbia do hereby certify:

- 1. THAT I graduated from Haileybury School of Mines with a Mining Technician Certificate (1971);
- 2. THAT I hold a Bachelor Degree of Science (Geology) from Lakehead University (1981);
- 3. That I am registered as a Professional Geoscientist by the Association of Professional Engineers and Geoscientists of British Columbia;
- 4. That I have practiced my profession as a geologist for 29 years;
- That I examined and logged drill core provided to me by the owners of the HD property.
 I have not conducted a site visit of the HD property nor am I familiar with the drill hole location;
- 6. That I have no financial interest in the HD Mineral Property.

Respectfully submitted, **Rick Kemp**

AUTHOR'S QUALIFICATIONS

I, Daniel Merkley, do hereby certify that:

(1) I am a prospector and reside at 3313 Hwy 16 East, Houston, B. C.

(2) I have more than 40 years of prospecting experience

(3) I prepared this report

Respectfully submitted

Daniel Musley

Daniel Merkley Prospector