

42A14NW0052 13 LENNOX

010

DIAMOND DRILLING

TOWNSHIP: Lennox

REPORT No.: 13

WORK PERFORMED BY: Hudbay Mining Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 619133	K-81-2	174.0 m	Oct/81	(1) (2)
	K-81-5	34.7 m	Nov/81	(1) (2)
	K-81-5A	93.0 m	Nov/81	(1) (2)
		<u>301.7 m</u>		

Au Ag Cu Zn

NOTES: (1) #41-82

(2) 10 pages added to this file on Dec. 14/88 - private donation from Abitibi-Price Inc. - additional pages are designated.

PROPERTY: Kingsmill

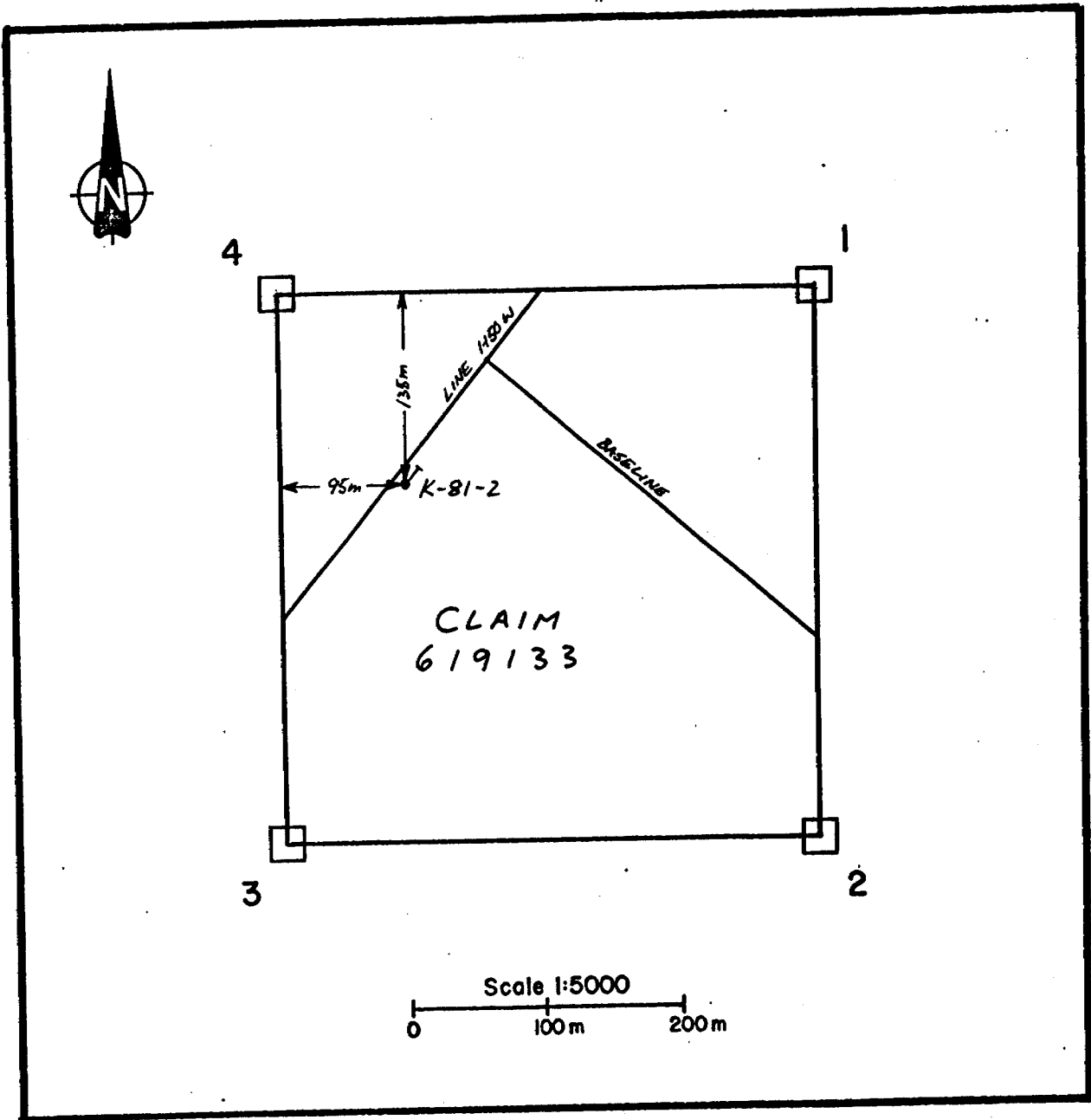
PAGE NO: 3 of 4

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T
		74.1-97.6 - <u>Lapilli Tuff</u> - lapilli-size fragments; stretched parallel to foliation @ 25° TCA - dark grey with orange-brown sericitized sections - orange-brown sericite and silver muscovite define a strong foliation @ 20-25° TCA; sericite developed in and about fractures, may be related to K-metasomatism - 10-15% blue "quartz eyes", 3-5 mm in size - 1-2 mm carbonate phenocrysts define a moderately strong strong lineation; appear to be secondary, replacement, minerals; 15-20% matrix carbonate								
		97.6-101.2 - <u>Flow (?)</u> - fine grained and massive - carbonate lineation disappears - blue "quartz eyes" become obscure - 2-3 cm light/dark banding in lower 0.7 m of unit - 15-20% matrix carbonate - 1-2% py in 1 mm stringers	239 240	97.8 99.3	99.3 101.2	1.5 1.9	0.001	nil	0.01	nil
		101.2-107.0 - <u>Lapilli Tuff</u> - as before @ 74.1-97.6								
		107.0-120.4 - <u>Flow (?)</u> - as before @ 97.6-101.2 except: - K-metasomatized fractures (orange-brown in colour) - 1-5 cm banding @ 25° TCA - 1-2% py in 1-3 mm stringers	241 242 243	106.78 108.28 109.78	108.28 109.78 111.08	1.50 1.50 1.30	0.007 0.003	nil nil	0.02 0.01	nil nil
		120.4-148.1 - <u>Lapilli Tuff</u> - as before @ 74.1-97.6 except: - very coarse grained muscovite developed along fracture planes @ 127.0 m and 128.0 m - @ 136.2-138.1 sericitized zone; 80-90% sericite - tourmaline needles to 1 cm occur in 15 cm quartz vein @ 137.8 m	244 245 246 254 247 248	127.65 129.15 130.65 132.15 138.80 140.30	129.15 130.65 132.15 133.65 140.30 141.80	1.50 1.50 1.50 1.50 1.50 1.50	nil tr nil	nil tr	0.01 0.01 0.01	nil nil nil

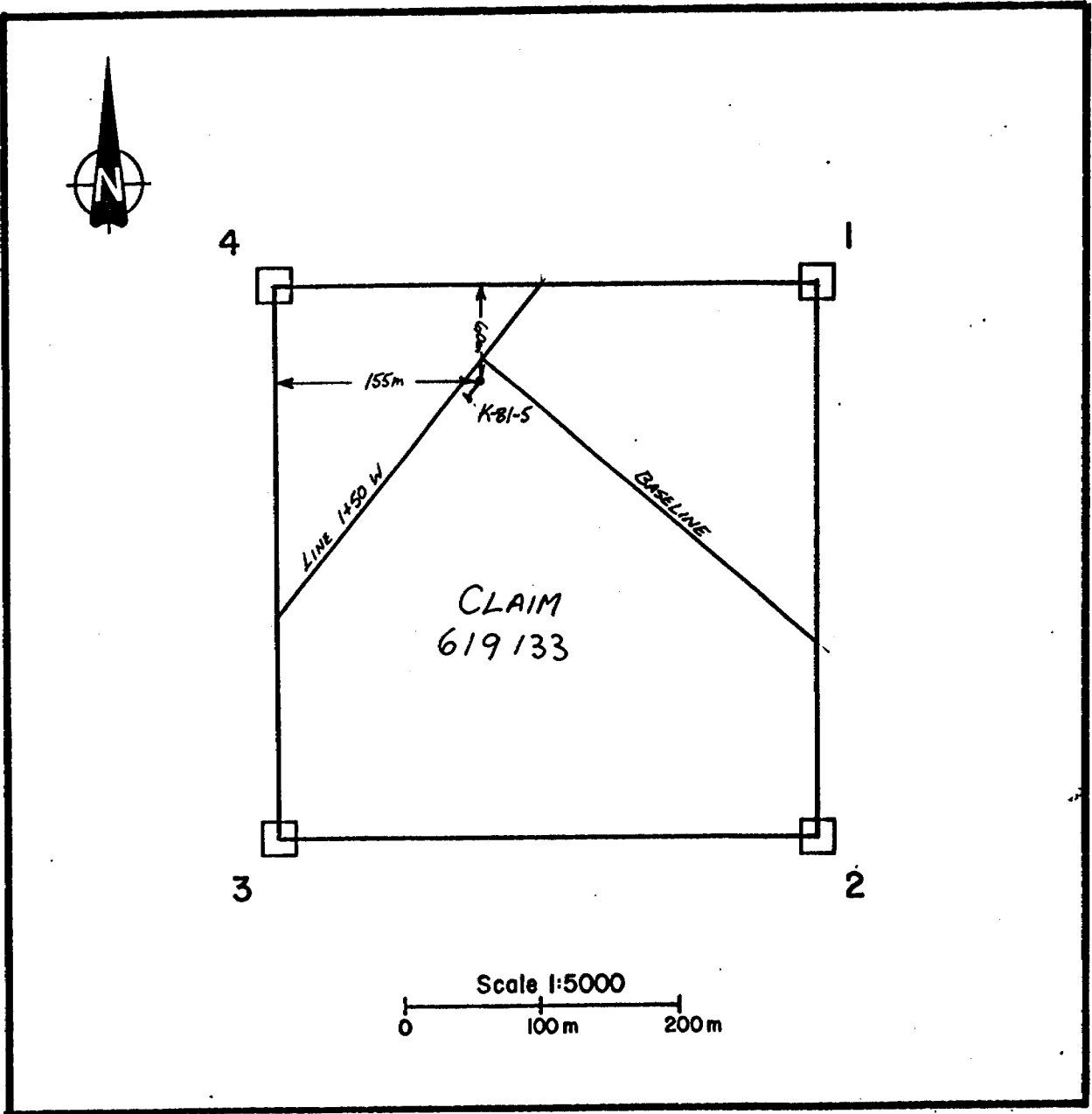
PROPERTY: Kingsmill

PAGE NO: 4 of 4

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu %	Zn %	Ag oz/T
		<ul style="list-style-type: none"> - occasional 0.5-1 cm stretched "quartz-eyes" parallel to foliation @ 35° TCA - 1-5% finely disseminated py plus occasional 1 cm euhedral cubes 	249	141.80	143.30	1.50	nil	tr	0.01	nil
			250	143.30	145.40	2.10				
		<p>148.1-162.1 - <u>Flow (?)</u></p> <ul style="list-style-type: none"> - as before @ 97.1-101.2 except: - <1 cm banding very prominent - mafic, chloritized, zone @ 160.3-161.0; fine to medium grained, dark green to black chlorite clots, averaging 0.5 cm, aligned subparallel to banding; 30-50% carbonate in matrix and stringers to 0.5 cm; 10-15% magnetite in bands 	251	155.95	156.70	0.75	nil	tr	0.02	nil
162.1	173.7	<p><u>Andesitic Tuff</u></p> <ul style="list-style-type: none"> - medium green - fine grained to aphanitic - chlorite clots increase in size, 0.5-1.0 cm, and frequency with depth - 2-3 mm quartz-carbonate veinlets define a banding; alternating with chlorite-rich sections; 35-40% carbonate, 30-40% chlorite - 10-15% magnetite in bands - lower contact @ 20° TCA, gradational over 0.5 m - 1-2% finely disseminated py, locally to 25-30% 	252	164.55	166.10	1.55	0.007	tr	0.03	nil
173.7	174.0	<p><u>Rhyolitic Flow (?)</u></p> <ul style="list-style-type: none"> - as before @ 148.1-162.1 except: - lapilli (?) at upper contact - 10-15% matrix carbonate 	253	173.70	174.00	0.30	nil	-	-	nil
174.0		End of Hole								
		NOTE: Core tested with UV light and scintillometer; no anomalous results were obtained								



Hudbay Mining Limited A Subsidiary of Hudson's Bay Oil and Gas Company Limited				
DDH LOCATION MAP (LENNOX TWP.) DDHK-81-2				
DATE	BY	IN	SCALE	S.I.L.
FEB/82	G.L.T.	G.L.T.	1:5,000	42A/19



Hudbay Mining Limited
 A Subsidiary of Hudson's Bay Oil and Gas Company Limited

*DDH LOCATION MAP
 (LENNOY TWP.)
 DDH-K-81-5*

DATE	BY	BY	SCALE	S.I.S.
FEB./82	G.L.T.	1:5000	42/1/9	

DIAMOND DRILL RECORD & LOG

LOCATION:

PROPERTY: Kingsmill

HOLE NO: K-81-5a

LATITUDE: L1+50W DEPARTURE: 0+10S
 INCLIN: -55°
 AZIMUTH: 222° (Grid South)
 STARTED: 1981-11-11
 COMPLETED: 1981-11-13
 PURPOSE: To Test EM Conductor, Lennox #1 Zone

LENGTH: 93.0 m
 CORE SIZE: AQ
 DIP TESTS: 1 @ 93.0 m -50°

ELEVATION:

DRILLED BY: Bradley Bros. Ltd.
 DRILLED FOR: Hudbay Mining Ltd.

CLAIM NO. 619133
 SECTION:
 LOGGED BY: M.P. Corrigan
 DATE LOGGED: 1981-11-13

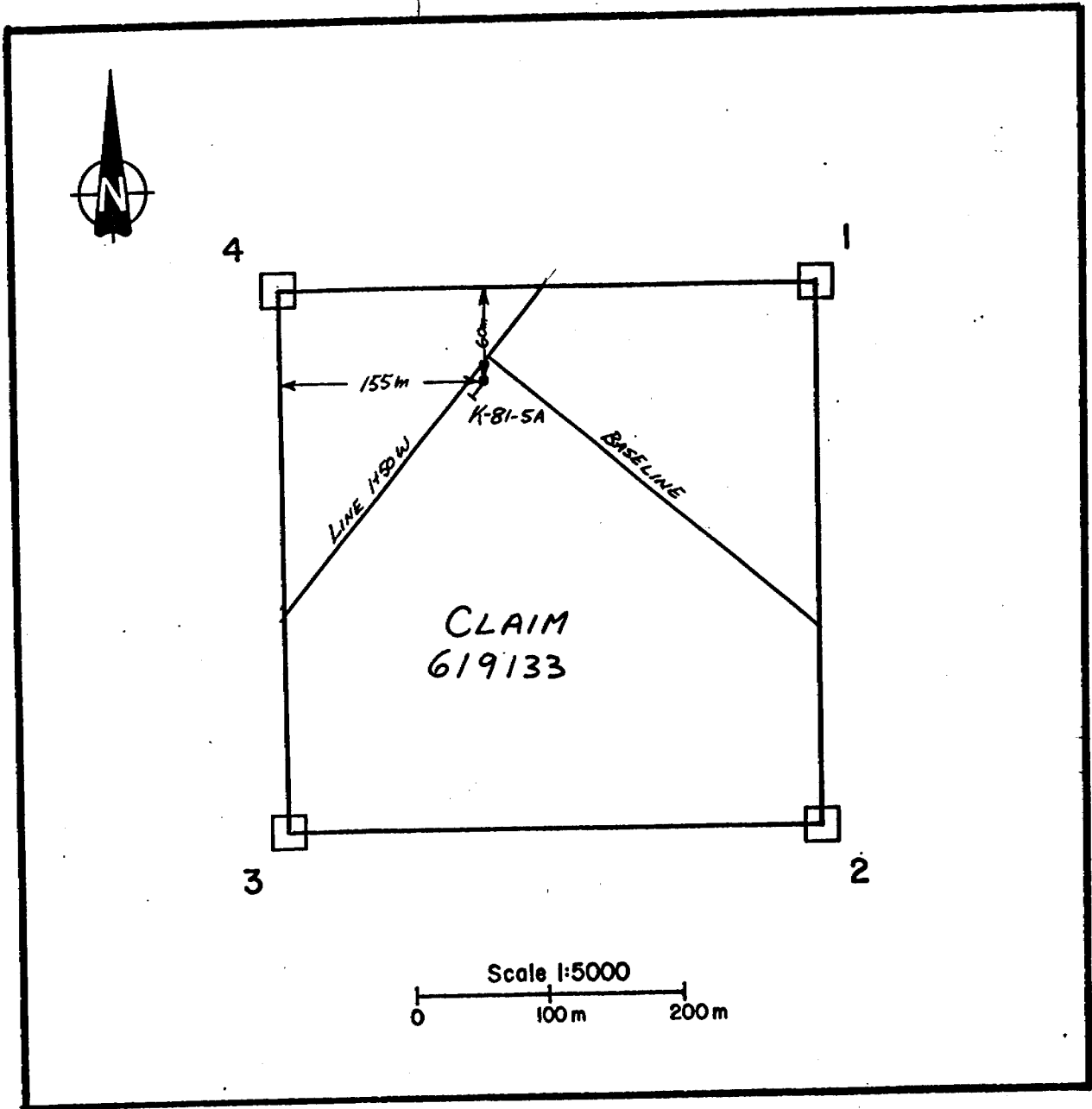
M.P. Corrigan

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS				
From	To			From	To		Au oz/T	Cu ppm	Zn ppm	Ag oz/T	
0	37.5	Overburden - clay, sand and gravel									
37.5	55.2	<u>Dacitic Tuff</u> - light grey/green - fine grained plagioclase phenocrysts in a glassy matrix - plagioclase is partially to wholly altered to carbonate - occasional lapilli to 4 cm, generally 3-5 mm - pervasively chloritized, content decreases downhole from 60-10% - carbonate content increases downhole, from 20-40% - 3-5 mm chlorite clots define successive tuff (flow?) boundaries - upper 4.0 m of unit may contain pelitic intra-flow metasediments (?) - concordant quartz-carbonate veinlets common - unit is pervasively silicified, SiO ₂ content increases downhole - lower contact sharp	487	52.2	53.7	1.5	nil	120.0	76.0	tr	
			488	53.7	55.2	1.5	nil	150.0	92.0	tr	
55.2	57.3	<u>Rhyolite</u> - light brown to buff - fine grained, tuffaceous appearance - very siliceous - sericitization weakly developed - <1% matrix carbonate, no quartz-carbonate veining - occasional hornblende (olivene?) needles on bedding planes, as @ 57.2 m	489	55.2	57.3	2.1	nil	110.0	80.0	tr	

PROPERTY: Kingsmill

PAGE NO: 2 of 3

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS			
From	To			From	To		Au oz/T	Cu ppm	Zn ppm	Ag oz/T
57.3	60.1	<ul style="list-style-type: none"> - lapilli size in-situ breccia fragments at lower contact - lower contact sharp @ 80° TCA <p><u>Sulfide Zone</u></p> <ul style="list-style-type: none"> - semi-massive py, with lesser po within concordant quartz/siliceous beds (veins?) - lower 0.8 m of the host is a sericitized and silicified rhyolite - sulfide bands to 25 cm, average 2-10 cm - lower contact moderately sharp @ 75° TCA 	490	57.3	58.8	1.5	0.005	19.0	310.0	nil
			491	58.8	60.1	1.3	0.010	42.0	270.0	tr
60.1	73.5	<p><u>Arkosic Metasediment (Tuff?)</u></p> <ul style="list-style-type: none"> - dark grey to greenish - medium grained, massive - 60-65% quartz and feldspar - 20-25% biotite - 10-15% fine grained, euhedral, magnetite - 1% garnets (appear abraded, may be detrital); locally to 10% over 20 cm - numerous, concordant, 5 mm quartz-carbonate veinlets; 10% matrix carbonate <p>68.4-69.5 - <u>Andesitic Flow</u></p> <ul style="list-style-type: none"> - dark green - fine grained, massive - 10% euhedral carbonate phenocrysts; numerous concordant 1-5 mm quartz-carbonate veinlets - ankeritic staining @ 68.5 m - upper contact obscure, lower contact sharp @ 75° TCA <p>- at 70.4-70.6 carbonatization-induced in-situ breccia zone (angular fragments)</p> <ul style="list-style-type: none"> - lower contact sharp @ 70° TCA 	492	60.1	61.6	1.5	0.002	87.0	120.0	tr
			493	61.6	63.1	1.5	nil	87.0	110.0	tr
			494	69.9	71.9	2.0	nil	120.0	140.0	tr
			495	71.9	73.5	1.6	0.003	100.0	150.0	tr

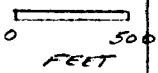
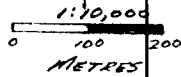


Hudbay Mining Limited
 A Subsidiary of Hudson's Bay Oil and Gas Company Limited

DDH LOCATION MAP
 (LENNOX TWP.)
 DDHK81-5A

REV.	DATE	BY	SCALE	S.I.D.
	FEB/82	G.L.T.	1:5,000	92A/14

added to file, Dec 14/88
PCL

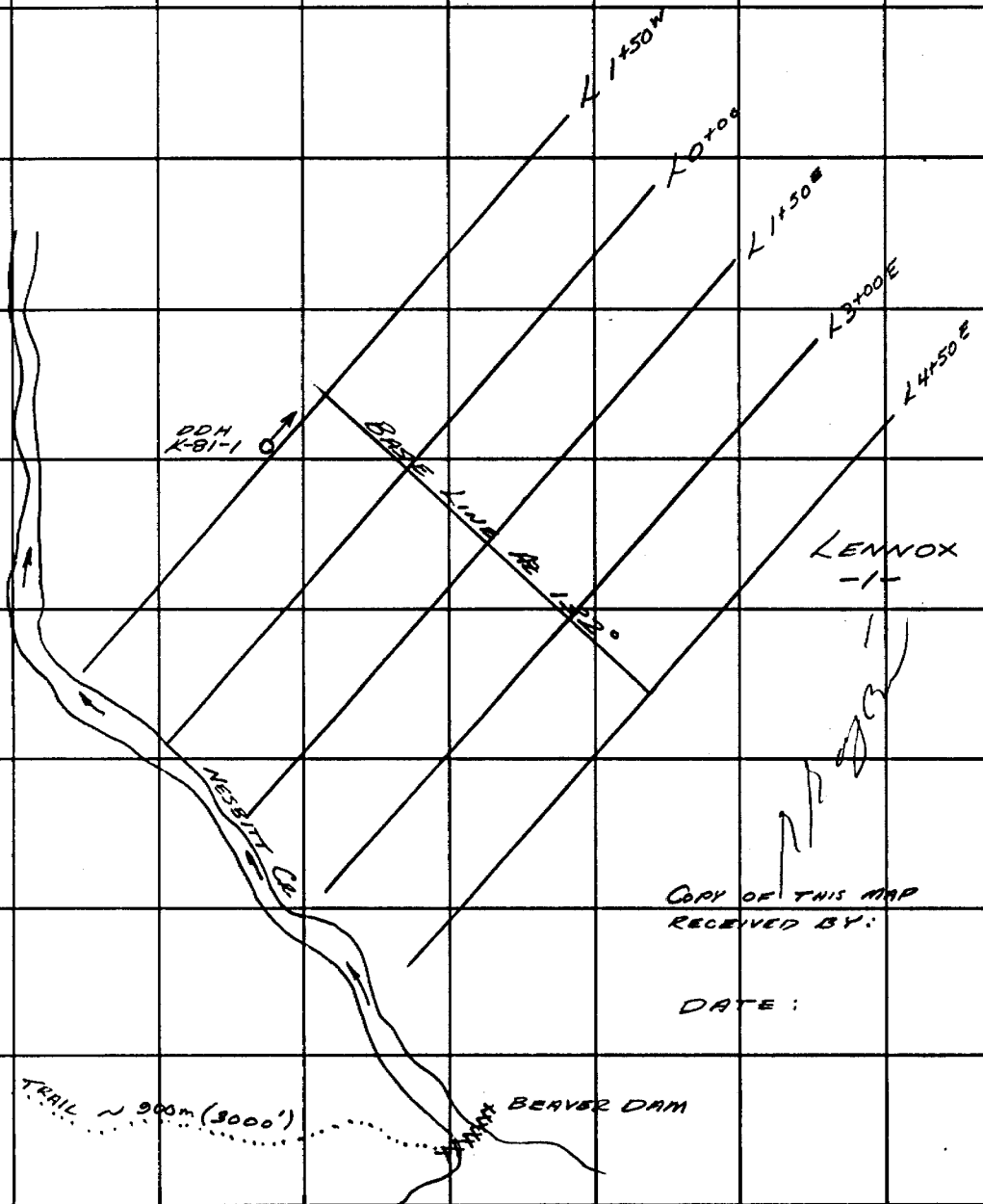


DDH → K-81-2

INCL. → -50°
AZ → GRID NORTH
DEPTH → 295'

EXPECTED OVERBURDEN
THICKNESS → 170'
COORDS. → L 1+50W; 1+12S

BAARBURN ROAD



LENNOX
-1-

COPY OF THIS MAP
RECEIVED BY:

DATE:

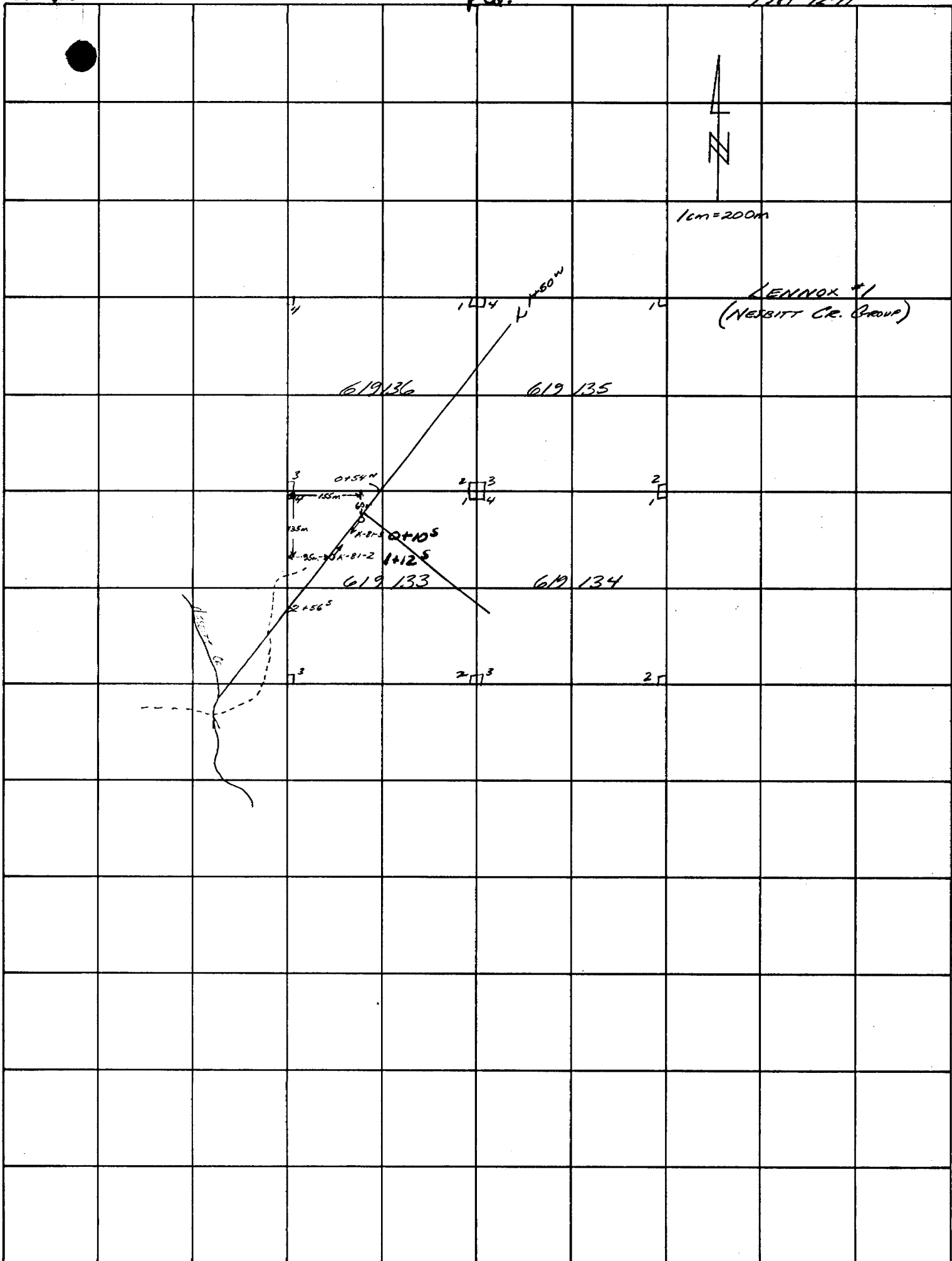
ALLEGY #12*

BLAZED TRAIL ~ 900m (3000')

BEAVER DAM

added to file, Dec 14/88
P.C.D.

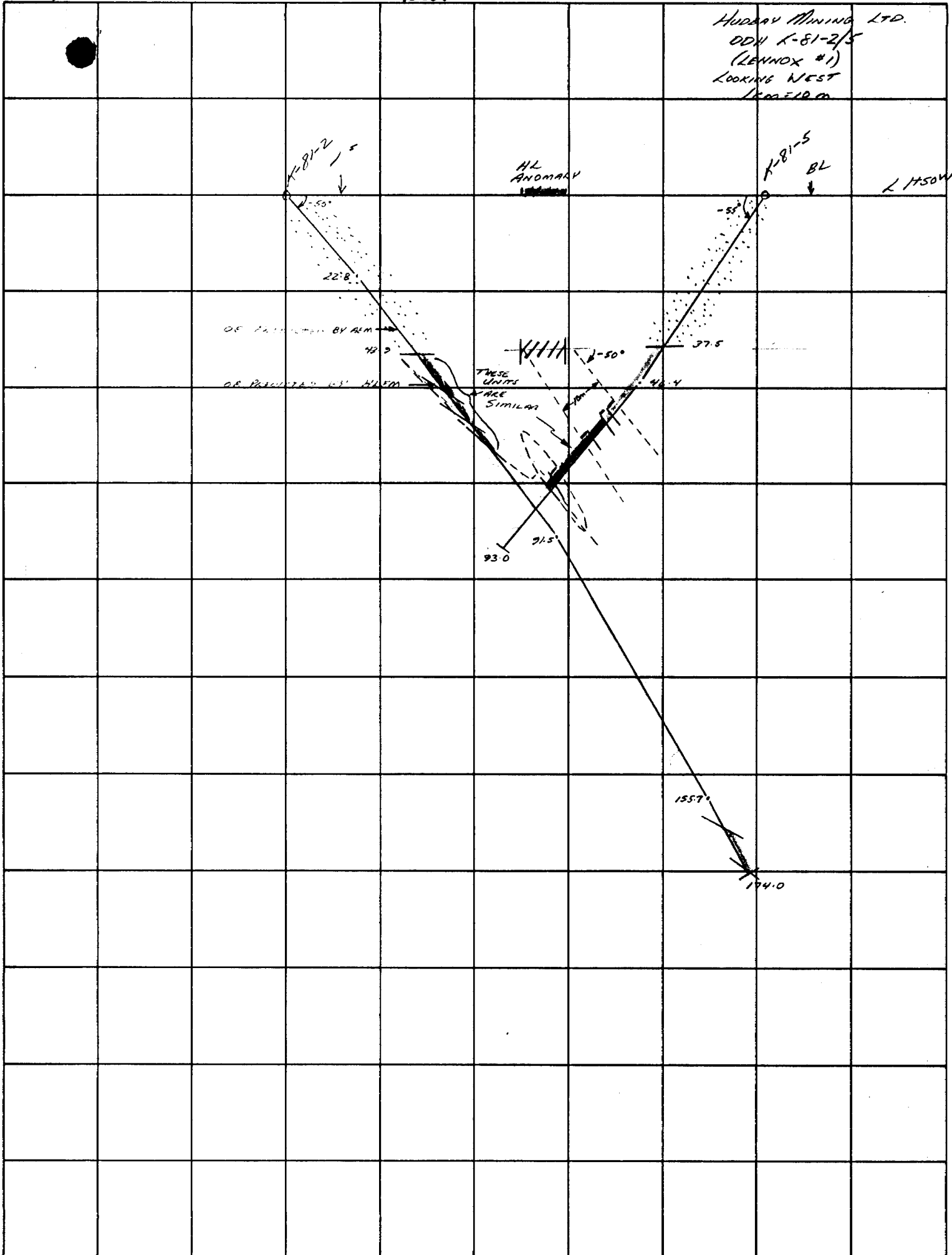
1281-12-11



Added to file, Dec. 14/88
R.C.W.

HBOG TR-408
2 cm grid

Hudson Mining Ltd.
ODD K-81-2/5
(LENNOX #1)
LOOKING WEST
1:200 = 1:10 cm



Added to File, Dec. 14/88
Rec.

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

MINERALS EXPLORATION DEPT.

D.D. Hole No. K-81-2

Property KINGSMILL

Percussion

Core Bit

PERTINENT HOLE DATA

Located on Claim No. P 619133

in Claim Group No. NESBITT CK. GP.

Coord. of Collar L 1+50W 1+12S

Date Collared 20-10-21 1981

Strike 042° (GRID NORTH)

Date Stopped 25-10-25 1981

Inclination at Collar -50°

Proposed Depth: 90m

Inclination at Bottom -61°

Final Depth: 174.0

Inclination at 45.7m -52°

Depth Overburden: 43.9

Inclination at 137.2m -60°

Core Recovery 100%

Core Size: AQ From 43.9 metres to 174.0 metres

X From _____ metres to _____ metres

X From _____ metres to _____ metres

Cementing Required at NIL & at _____ & at _____

Mineralization: From 51.17 to 51.53 Average Grade 40-5% po / 15-20% py

From _____ to _____ Average Grade 1-5% po/py @ VARIOUS LOCATIONS ALONG CORE

From _____ to _____ Average Grade _____

Sample Nos. 238 → 254 = 17 Sack # _____

Assays by: X-RAY ASSAY LAB Assayed For: Cu/Pb/Zn Au/Ag 30 ELEM

REMARKS: CONDUCTOR NOT EXPLAINED BY DDH.

Property/Prospect KINGSMILL

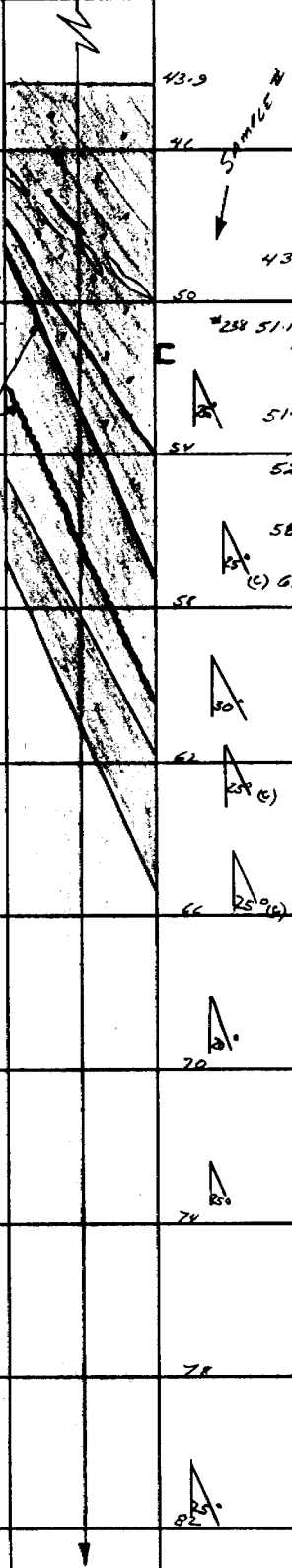
Area: LENNOX #1

File: _____

D.D. Hole No. K-81-2

added to file, Dec 14/88
R.D.

<p>INCL. @ COLLAR → -50° 45.7m → -52° 137.2 → -60° 174.0 → -61°</p>		<p>HUDBAY MINING LTD. KINGSMILL PROJECT → DDH K-81-2 ← (LENNOX #1) Loc^a → L1 + 50W; 1-12.5 AZ. → 042 (GRID NORTH) DEPTH → 174.0m</p>
<p>0-43.9m OVERBURDEN</p>		<p>SIZE → AQ COLLARED → 1981-10-21 COMPLETED → 1981-10-25 (1 of 3)</p>
<p>43.9-52.8 LITHIC TUFF (TUFFACEOUS META-SEDIMENT)</p>	<p>- F → M.GR; DK. GREY → BLK - STRONG FOL^o (BIOFITE) @ 20-25° TCA - OCC. LAPILLI IN CENTRAL PORTION OF UNIT - 10% EUNEDRAL → SUBNEDRAL GARNETS (3-5mm) IN AN ANPHANITIC, GLASSY, ALTERED MATRIX (→ PORPHYROBLASTIC TEXTURE) - ME. OCCURS AS NEEDLE-LIKE FINE GRAINS - NUMEROUS 1cm Q-C VEINS // FOL^o - 15-20% MATRIX GARB. - SERICITE DEVELOPED ALONG FRACT. PLANES - LWR. CONTACT SHARP @ 25° ANKERITE</p>	<p>43.9 → 51.17 Tr py, CUBES IN Q.C. VEINLETS Tr PO/ME (V.F. GR) #28 51.17 → 51.53 40-50% FINELY DISS. PO = 0.36m 15-20% 0.5cm EUNEDRAL Py CUBES 51.53 → 52.8 NO SIGN. MINERALIZATION</p>
<p>52.8-58.2 ANDESITIC FLOW</p>	<p>- F. GR., EUNEDRAL FELD LATHES IN AN ANPHANITIC MATRIX; MED. TO DK. GREEN WITH WHITE FELD. PHENOCRYSTS - UPPER CONTACT IS CARBONATIZED TO ANKERITE (RED-BRN STAIN) ~15cm - FEW DEFORM. & MOD. STRAIN LINATION @ 20° TCA - GRAIN SIZE ↓ DOWNHOLE, FELD. PHENO. EVENTUALLY DISAPPEAR CLOSE TO LWR. CONTACT. - Q-C VEINLETS (0.5 → 2cm) @ 45° TCA - CHLORITIZED PERVASIVELY, ↓ DOWNHOLE</p>	<p>52.8 → 58.2 " " " 58.2 → 61.2 " " " 61.2 → 77.8 " " "</p>
<p>58.2-61.2 LITHIC TUFF</p>	<p>- AS BEFORE, EXCEPT FOL^o NOT AS WELL DEVELOPED - <5% GARNETS - STRUCTURALLY COMPLEX/HIGHLY FRACT. CORE (CORE ANGLES @ 0° → 25° TCA) UNTIL 59.5m - CHLORITIZED PERVASIVELY DOWNHOLE - CHLORITIC SHEAR PLANES @ 20° TCA - LOWER CONTACT SHARP @ 25° TCA</p>	<p>61.2 → 73.3 " " "</p>
<p>61.2-162.1 RHYOLITE TUFF</p>	<p>- LT. GREY → BUFF - MED. → C. GROUND - UPPER 2.8m CHLORITIZED & SHEARED, CHLORITE % ↓ DOWNHOLE (THIS PORTION OF UNIT CONTAINS >50% Q-C VEINLETS @ 20-30° TCA); V. HIGHLY FOLIATED @ 20-25° TCA - @ 68.7m START OF 3-5cm BLUE QTR EYES - UNIT, GENERALLY, IS TUFFACEOUS WITH GLASSY MATRIX (F. GR. BLACK QTR.) (PHENO. PERSISTENT) - Q-C VEINLETS (0.5cm-2cm) COMMON - 15-20% CARB. MATRIX - 40% MUSCOVITIZATION</p>	<p>73.3 → 77.1 TUFF ZONE - EVIDENCE OF FLOWAGE & BRECCIATION (FLOW TOP BK) - 30-35% CARB. AS STRINGERS & IN MATRIX</p>



Added to file, Dec. 14/88

Red.

HUBBAY MINING LTD.
KINGSMILL PROJECT
DDH K-81-2
(2 of 3)

61.2 → 162.1	RYOLITE (60% ²)						
74.1 → 97.6	UNIT BECOMES MORE FRAGMENTAL				82		
	<ul style="list-style-type: none"> - LAPILLI - SIZE FRAGS. (STRETCHED PARALLEL TO FOL) - DK. GRAY WITH ORANGE-BROWN STAINING - SERICITE (ORANGE-BROWN) AND MUSCOVITE (SILVER) DEFINE A STRONG FOLIATION @ 20-25° TCA - SERICITE DEVELOPED IN & ABOUT FRACTURES 				86		<u>MINERALIZATION</u>
	<ul style="list-style-type: none"> - BLUE OR EYES CONSTITUTE ~ 10-15% OF UNIT (~ 3-5mm) - 1-2mm CARB. PHENO(?) OCCURS + DEFINES A MOD. STRONG LINATION (PROBABLY REPLACEMENT MINERAL) - 15-20% CARB. IN MATRIX 				90		
97.6 → 101.2	UNIT BECOMES F. GR. & MASSIVE	SERICITE			94		
	<ul style="list-style-type: none"> - LT. GRAY COLOUR - CARB. MINERAL LINATION DISAPPEARS - BLUE OR EYES DISAPPEAR - STRONG MUSC. FOL @ 25° TCA - 2-3cm BANDING COMMON IN LOWER PORTION (0.7m) 				98	#239 97.8 → 99.3 = 1.5m	1-2% Py IN 1mm STRINGS
101.2 → 107.0	<ul style="list-style-type: none"> - 15-20% CARB. IN MATRIX - FRAGMENTAL AS BEFORE (74.1 → 97.6) 				102	#240 99.3 → 101.2 = 1.9m	" " " " "
107.0 → 120.4	F. GR. & MASSIVE AS BEFORE (97.6-101.2)				106	101.2 → 106.78	NO SIG. MINERALIZATION
	<ul style="list-style-type: none"> - SERICITIC (ORANGE-BROWN) ZONE PRESENT IN FRAGMENTAL OCCURS IN THIS PORTION OF THE UNIT ALSO - 1.5cm BANDING (@ 25° TCA) PERSISTENT (AS IN LOWER PORTION OF PREVIOUS SIMILAR UNIT) 				110	#241 106.78 → 108.28 = 1.5m	1-2% Py IN 1-3mm STRINGS
					114	#242 108.28 → 109.78 = 1.5m	" " " " "
120.4 → 136.2	FRAGMENTAL AS BEFORE (74.1-97.6)				118	#243 109.78 → 111.08 = 1.3m	" " " " "
	<ul style="list-style-type: none"> - SERICITIC ZONES (ORANGE-BROWN) PERSIST THROUGHOUT THIS SECTION - LAPILLI-SIZE FRAGS. COMMON, MOST ABUNDANT @ 128.5-133.6 - V. C. GR. MUSCOVITE FLAKES DEVELOPED ALONG FRACT @ 129.0 & 128.0 				122	111.08-128.65	NO SIG. MINERALIZATION
					126		
		SERICITE					

added to file Dec. 14/88
RCD.

						<p>HUDBAY MINING LTD. KINESMILL PROJECT DDH-K-81-2 3 of 3</p>
						<p><u>MINERALIZATION</u></p>
					<p>136 #244 127.65 → 129.15 = 1.5m</p>	<p>1-2% F. Diss. Py Fo Gr.</p>
					<p>130 #245 129.15 → 130.65 = 1.5m</p>	<p>" " "</p>
					<p>30° #246 130.65 → 132.15 = 1.5m</p>	<p>" " "</p>
					<p>30° #247 132.15 → 133.65 = 1.5m</p>	<p>" " "</p>
136.2 → 138.1		<p>SERICITIZED ZONE - BUFF COLORED - BRASSY FEL, 80-90% SERICITE - TOURMALINE NEEDLES IN 15cm QV @ 137.80</p>			<p>138 #248 133.65 → 138.8 = 1.5m</p>	<p>No SIGN. MINERALIZATION</p>
		<p>- OCC. 0.5 x 1cm STRETCHED CLEAR TO WHITISH QTZ- FEL // TO FOL 2 @ 35° TCA</p>			<p>30° #249 138.8 → 140.3 = 1.5m</p>	<p>5% F. Diss. Py + SEVERAL 1cm FUNERAL CHIPS</p>
138.1 → 148.1		<p>FRAGMENTAL A' REEF (74.1-97.6) - EXCEPT: CARB PHENO. ARE ABSENT; NO ORANGE-BRN SERICITIZED ZONES</p>			<p>142 #249 141.8 → 142.3 = 1.5m</p>	<p>3-5% F. Diss. Py</p>
					<p>146 #250 143.3 → 145.4 = 2.1m</p>	<p>" " " "</p>
148.1 → 162.1		<p>F. GR & MASSIVE AS BEFORE (97.1-101.2) - 2cm TURFACIOUS BANDING VERY PROMINENT - LWK CONTACT SHARP @ 35° TCA 156.1 → 158.0 V. WELL Banded</p>			<p>150 #251 148.3 → 141.8 = 1.5m</p>	
		<p>160.3 → 161.0 MAFIC VOLC. (SPUMENT?) (K0.5cm BANDS) @ 035° TCA - F. → M. GR DK GREEN → BLACK WITH CHLORITE CLOTS (~0.5cm) ALIGNED SUB PARALLEL TO BANDING</p>			<p>154 #252 141.8 → 142.3 = 1.5m</p>	
		<p>- THIS UNIT CHARACTER- IZED BY A GREATER CARB. CONTENT (~40-50%) - Q-C VEINLETS // FOL 0 (K0.5cm) COMPRISE ~30% OF UNIT - 14-15% MAGNETITE IN BANDS</p>			<p>158 #253 143.3 → 145.4 = 2.1m</p>	<p>2-3% F. Diss. Po/Py</p>
162.1 → 173.7		<p>ANDRITIC TUFF AS BEFORE @ 156.7-158.0 - MED. GREEN, F. GR TO APHANITIC - CHLORITE CLOTS ↑ IN SIZE (5cm) & FREQ. WITH DEPTH - Q-C DEFINES A BANDING (2-3mm VEINETS) - CARB PHENO. (1-2mm) ALTERNATES WITH CHLORITE BANDS - MAGNETITE ~10-15% IN BANDS (PSEUDO-IF.) - CARB ~35-40% (+ VEINLETS) - CHLORITE ~30-40% - LWK. CONTACT @ 20° TCA (GRADUAL AL OVER 0.5m)</p>			<p>162 #254 155.95 → 156.70 = 0.75m</p>	<p>2-3% F. Diss. Po/Py</p>
					<p>166 #255 164.55 → 166.10 = 1.55m</p>	<p>1-2% F. Diss. Po/Py (25-30% LOCALLY @ START OF SAMPLE)</p>
173.7 → 174.0		<p>RYHOLITE AS BEFORE (48.1-162.1) - LAPILL FRAGS @ UPRK CONTACT - LT. GREY - 10-15% CALI. - SERICITIZED</p>			<p>170 #256 166.10 → 173.7 = 0.3m</p>	<p>Tr F. Diss. Py</p>
					<p>174 #257 173.7 → 174.0 = 0.3m</p>	<p>BLUE-GREEN MINERAL ALONG SERICITIZED FOLD PLANE</p>
					<p>NOTE: UV LIGHT & SCINTILLOMETER PASSED OVER CORE WITH NO ANOMALOUS RESULTS.</p>	

added to file, Dec. 14/88
RW.

HUDSON'S BAY OIL AND GAS COMPANY LIMITED

MINERALS EXPLORATION DEPT.

D.D. Hole No. K-81-5

Property KINGSMILL

Percussion

Core Bit

PERTINENT HOLE DATA

Located on Claim No. 619133

in Claim Group No. _____

Coord. of Collar 1+50N, 0+105

Date Collared 1981-11-11 19__

Strike 222° / GRID SOUTH

Date Stopped 1981-11-13 19__

Inclination at Collar -55°

Proposed Depth: 100.0m

Inclination at Bottom -50°

Final Depth: 23.0m

Inclination at _____

Depth Overburden: 37.5m

Inclination at _____

Core Recovery ~100%

Core Size: AQ" From 37.5 metres to 23.0 metres

X From _____ metres to _____ metres

X From _____ metres to _____ metres

Cementing Required at Nil & at _____ & at _____

Mineralization: From 52.2m to 57.3m Average Grade 3% Py

From 57.3m to 60.1m Average Grade 4.5% Py + 3% Po
7-5pt

From 73.5m to 74.3m Average Grade 60% Po + Py

Sample Nos. 487-498 = 13 Sack # _____

Assays by: X-RAY Assayed For: _____

REMARKS: ① Hole abandoned in overburden, head reset to -55° & hole restarted.
② Conductor is ~8m of massive Py + Po.

Property/Prospect KINGSMILL

Area: LENNOX #1

File: _____

D.D. Hole No. K-81-5A

added to file, Dec 14/88
RCD

<p>INCL → θ = 55° 23.0m - 50°</p>		<p>HUDBAY MINING LTD. KINGSMILL PROJECT DDH K-81-5 (LENNOK #1) 1cm = 2m Loc: L150W, O+10° Az: 222°, GRID SOUTH DEPTH: 93.0m SITE: A Q COLLARED: 1981-11-11 COMPLETED: 1981-11-13 LOGGED BY: M.A.P. Conroy 1 of 2</p>
<p>0-37.5 OVERMINEN</p>	<p>37.5-55.2 * <u>DACITIC TUFF</u> - LT. GRAY-GREEN - F. CR. FELD. PHENS IN GLASSY MATRIX (FELD. PARTIALLY OR WHOLLY ALTERED TO CHL.) - OCC. LABELS TO 4cm, GENERALLY 3-5m (AS AT 47.0) - CHLORITE CONTENT VARIABLE, % ↓ DOWNHOLE FROM ~60% TO 10% - CARB. ALTERATION ↓ DOWNHOLE FROM ~20% TO ~40% - 3-5m CHLORITE CLOTS APPEAR TO BE PRA. SUCCESSION TUFF (FION?) - UPPER 4.0m OF UNIT MAY CONTAIN FELTIC HYDRAULIC METASANDSTONES?? - CONCORDANT 0.1cm TO 1cm Q-C VEINS (BLUE) COMMON - PERVASIVE SULFIDICATION TOWARDS LWR. CONTACT - LOWER CONTACT SHARP</p>	<p>MINERALIZATION 37.5-52.2 No SIGNIF. MINERAL.</p>
<p>55.2-57.3 * <u>RHYOLITE</u> - LT. BROWN TO BUFF - F. CR., TUFFACEOUS APPEARANCE - V. SILICEOUS; SERICITIZATION WEAKLY DEVELOPED; <1% CARB. IN MATRIX, NO Q-C VEINETS - 1cm BANDING DEVELOPED - OCC. HORZ./OBLV. NEEDLES ON ELEVING GRILLS AS @ 54.2 - KAPPLI-SIZE IN-SITU BA. FRAGS. @ LWR CONTACT - LWR CONTACT SHARP</p>	<p>52.2-53.7 #487 53.7-55.2 #488 55.2-57.3 #489 57.3-58.8 #490 58.8-60.1 #491 60.1-61.6 #492 61.6-63.1 #493 63.1-69.9 #494 69.9-71.9 #495 71.9-73.5 #496 73.5-74.0 #497 74.0-74.3 #498</p>	<p>1-3% Py AS DISS, STREAKS 3-5% Py AS DISS, STREAKS & STRINGERS 1-3% DISS Py + OCC. STRINGER 55-40% Pb + 1-3% Pb IN MASSIVE BANDS TO 25cm NIB; TT sph 45-50% Pb + 3-5% Po IN MASSIVE BANDS 1-3% Pb + Py IN 1-2cm MASSIVE BANDS " " " No SIGNIF. MINERAL.</p>
<p>57.3-60.1 * <u>SULFIDE ZONE</u> - SEMI-MASSIVE Py + LESSEER Po WITHIN CONCORDANT Qtz/SILICEOUS Q-VES (VAINES?) - LWR. 0.8m, THE HOST IS A SULFIDED & SERICITIZED RHYOLITE - LWR. CONTACT MOD. SHARP - SULFIDE BANDS TO 25cm, GENERALLY 2cm → 10cm</p>	<p>MAGNETITE</p>	<p>" " " No SIGNIF. MINERAL.</p>
<p>60.1-73.5 * <u>ARKOSIC METASANDSTONE (TUFF?)</u> - LWR. GRAY TO GREENISH - H. CR., MASSIVE PSAMMITIC 60-65% Qtz. FELD. 20-25% BIOTITE 10-15% MAGNETITE (F. CR. FUNGUS?) 1% GRANETS (DETRITAL, ABUNDANT) (LOCALLY TO 10% OVER 20cm) - NUMEROUS <1cm Q-C VEINETS (CONCORDANT) - ~10% MATRIX CARB. - LWR CONTACT SHARP</p>	<p>69.9-71.9 #495 71.9-73.5 #496 73.5-74.0 #497 74.0-74.3 #498</p>	<p>1-3% Po + Py IN MASS. 2-3cm BANDS T- Py 40-45% Pb + 5% Py IN MASSIVE BANDS 80-85% Pb + 5% Po</p>

#41-82
HUBBARD MINING LTD.
DARGAVEL

Lennox
1 up
M-531

