

DIAMOND DRILLING



41P14NW1019 0010C1 RHODES

010

TOWNSHIP: rhodes

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>
S 616182	81-1	38.71 m	Nov/81	(1)
S 616182	81-2	30.48 m	Nov/81	(1)
S 616194	81-3	30.48 m	Nov/81	(1)
S 616193	81-4	52.70 m	Nov/81	(1)

TOTAL: 4 DH 152.37 m

NOTES: (1) #22-82

DIAMOND DRILL RECORD & LOG

LOCATION: Shasta Zone

PROPERTY: Rhodes Township, Ontario

HOLE NO: 81-1

LATITUDE: 0+80N
 INCLIN: -45°
 AZIMUTH: 040°
 STARTED: 81-11-11
 COMPLETED: 81-11-13
 PURPOSE: Test VHEM Conductor

DEPARTURE: 0+28W

LENGTH: 38.71 m
 CORE SIZE: AQ
 DIP TESTS:

ELEVATION:

DRILLED BY: Heath and Sherwood
 DRILLED FOR: Hudbay Mining Ltd.

CLAIM NO. 616182
 SECTION:
 LOGGED BY: P.Lassila
 DATE LOGGED: 81-11-14

P. Lassila

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS						
From	To			From	To		Au oz/T	Ag oz/T					
0	1.2	Overburden (no recovery)											
1.2	27.7	Intricately interlayered, flow banded, metamorphosed, fine grained, volcanic rock with irregular inflows (layers) varying in composition from soft (h4), in part weakly chloritized, medium to dark grey rock of andesitic composition, to silicified medium grey, fine grained hard (h5-6) rock of intermediate composition. Some "pseudo selvages" of pillow lava evident. Numerous quartzitic to quartzofeldspathic whitish veinlets/seamlets and irregular inclusions (probably metamorphosed fragmentals). Thin (1-3 mm) fracture veins-seams of quartz and quartz-calcite prominent in the more siliceous sections, locally cross-cutting, and reaching a density approaching stockwork classification. Contacts between various compositional components are very irregular, and vary from sharp(distinct)to indistinctly gradational This section contains <1% to 1% disseminated sulfides (mainly po). A few narrow (<2 cm) sections are distinctly magnetic due to po (2-5%). There is a gradual increase from basic to acidic downhole. Downhole from 23.0 m, the banding (layering) becomes more regular (unidirectional) and foliation becomes more distinct. Banding occurs at 70°-80° to the core axis.	157	3.75	3.76	0.01							
					4.17	4.19	0.02						
				(6 qtz veins)	4.30	4.34	0.04	nil	nil				
					5.80	5.83	0.03						
					6.70	6.73	0.03						
					7.33	7.35	0.02						
				158	8.00	8.07	0.07						
					8.60	8.64	0.04						
				(8 qtz veins)	9.62	9.66	0.04						
					9.88	10.01	0.13	tr	nil				
					11.40	11.50	0.10						
					12.55	12.59	0.04						
					12.95	12.98	0.03						
					14.70	14.77	0.07						
			159	19.92	20.32	0.40	nil	nil					
			160	22.05	22.17	0.12	nil	nil					
			(2 qtz veins)	22.30	22.80	0.50							

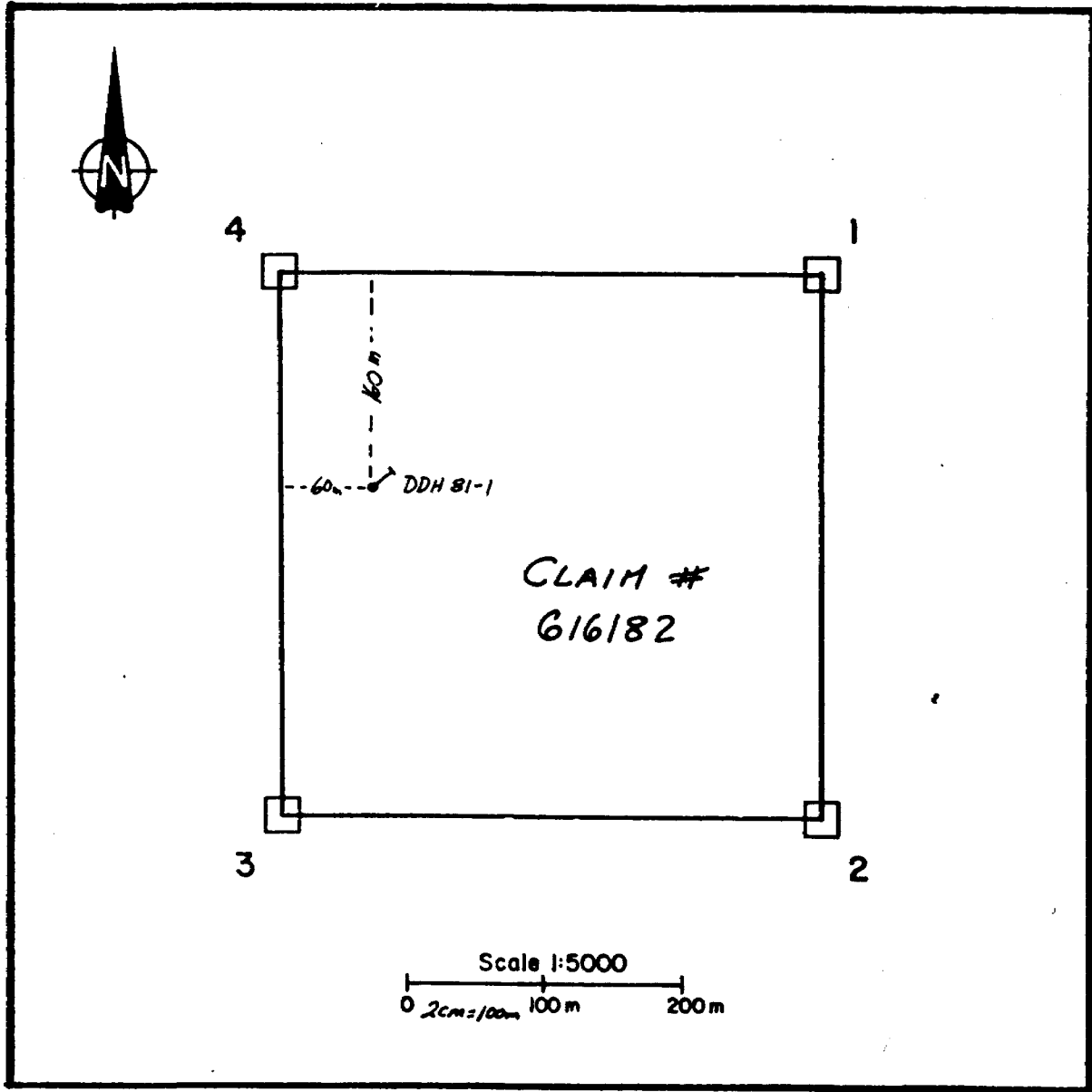
DIAMOND DRILL RECORD & LOG

HOLE NO: 81-1

PROPERTY: Rhodes Township, Ontario

PAGE NO: 2 of 3

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS						
From	To			From	To		Au oz/T	Ag oz/T					
		Several small (1-10 cm) zones of quartz veins carry associated py, po (1-2%) and few (<1%) blebs cpy. Those with po content are all weakly magnetic.											
27.7	28.50	Moderately well banded dacitic rock, possibly a metatuff. 1% to locally 20% po, mainly concentrated as banded disseminations (up to 30% over 1/2 cm) parallel to host rock; 27.97-28.07 po banding (stringers) sufficiently concentrated to be conductive. Section is weakly to strongly magnetic due to po. Banding at 75-80° to core axis.	161	27.85	28.50	0.65	nil	nil					
28.50	29.20	Massive, faintly banded-foliated, fine grained, medium grey dacite. Sharp contact at 29.20.											
29.20	30.20	<u>Conductive Zone:</u> rhyo-dacite to rhyolite composition, distinctly banded at 75-80° to core axis. May be granitized (recrystallized) chert-tuff section. Some very fine grained orangey-pink tinged (K-feldspar?) bands. Strongly magnetic due to po (varies from 3-60% in section). Po occurs as disseminations and irregular massive (up to 80% over 1 cm) concentrations lineated subparallel to the host rock banding. Very minor (<1%) diss. cpy at 29.9-31.2. The massive po locally has purplish tinge and may contain minor sphal.	162	29.20	30.20	1.0	nil	nil					
30.20	31.50	Massive, uniform, fine grained, light grey dacite, locally faintly flowbanded.											
31.50	32.15	Dacite-rhyodacite weakly to moderately banded with 1-5% po, mainly as linear disseminations.	163	31.50	32.15	0.65	nil	nil					



SUDBURY
MINING CO.
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P.M.
17:50:00 18:12:18 14:5:6

Hudbay Mining Limited A Subsidiary of Hudson's Bay Oil and Gas Company Limited				
RHODES PROJECT LOCATION MAP FOR DDH 81-1				
DATE	DRAWN BY	SCALE	SHEET	
Jan. 22/82	G.L. [unclear]	1:5,000	41 I/14	

QAN.22/82

DIAMOND DRILL RECORD & LOG

LOCATION: Kester Zone

PROPERTY: Rhodes Township, Ontario

POLE NO: 81-2

LATITUDE: 0+25S DEPARTURE: 0+85W
 INCLIN: -50°
 AZIMUTH: 058°
 STARTED: 81-11-14
 COMPLETED: 81-11-14
 PURPOSE: Test VHEM Conductor

LENGTH: 30.48 m
 CORE SIZE: AQ
 DIP TESTS:

ELEVATION:

CLAIM NO. 616182
 SECTION:
 LOGGED BY: P.Lassila
 DATE LOGGED: 81-11-15

DRILLED BY: Heath and Sherwood
 DRILLED FOR: Hudbay Mining Ltd.

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 11 NOV 03 1982
 SURVEY
 11 NOV 03 1982

P. Lassila

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH m	ASSAYS						
From	To			From	To		Au oz/T	Ag oz/T					
0	1.52	Overburden											
1.52	2.54	Very fine grained andesitic to dacitic, weakly flow banded volcanic. Probably 30% white felds. Narrower bands tend to be feldspar rich and lighter colour (whitish grey compared to medium grey host rock). In the thicker bands feldspars take a phenocryst appearance and are up to 2 mm in size in a matrix of <1 mm size crystals.											
2.54	2.70	Medium grained felds. porph. Massive, very uniform in grain size and composition. Very distinctive felds. crystals (35% of rock) give a coarse salt-pepper texture. Matrix appears to slightly darker feldspar and minor (5%) qtz. Less than 5% mafics This unit appears to be a sill, but has no chill margins.											
2.70	4.42	Same as at 1.52-2.54 but banding is much more irregular. Felsic bands may well be pseudo selvages of pillow lava.											
4.42	5.40	Identical unit to 2.54-2.70 section.											
5.40	6.58	Similar to 2.70-4.42 section, but very distinct irregular flow banding almost gneissic in texture. The felsic bands have slightly pinkish hue indicating probable K-felds content, crystals are about 1 mm in size and do <u>not</u> have porph texture.	165 (3 qtz veins)	3.00 4.40 6.71	3.02 4.42 6.79	.02 .02 .08	nil	nil					

DIAMOND DRILL RECORD & LOG

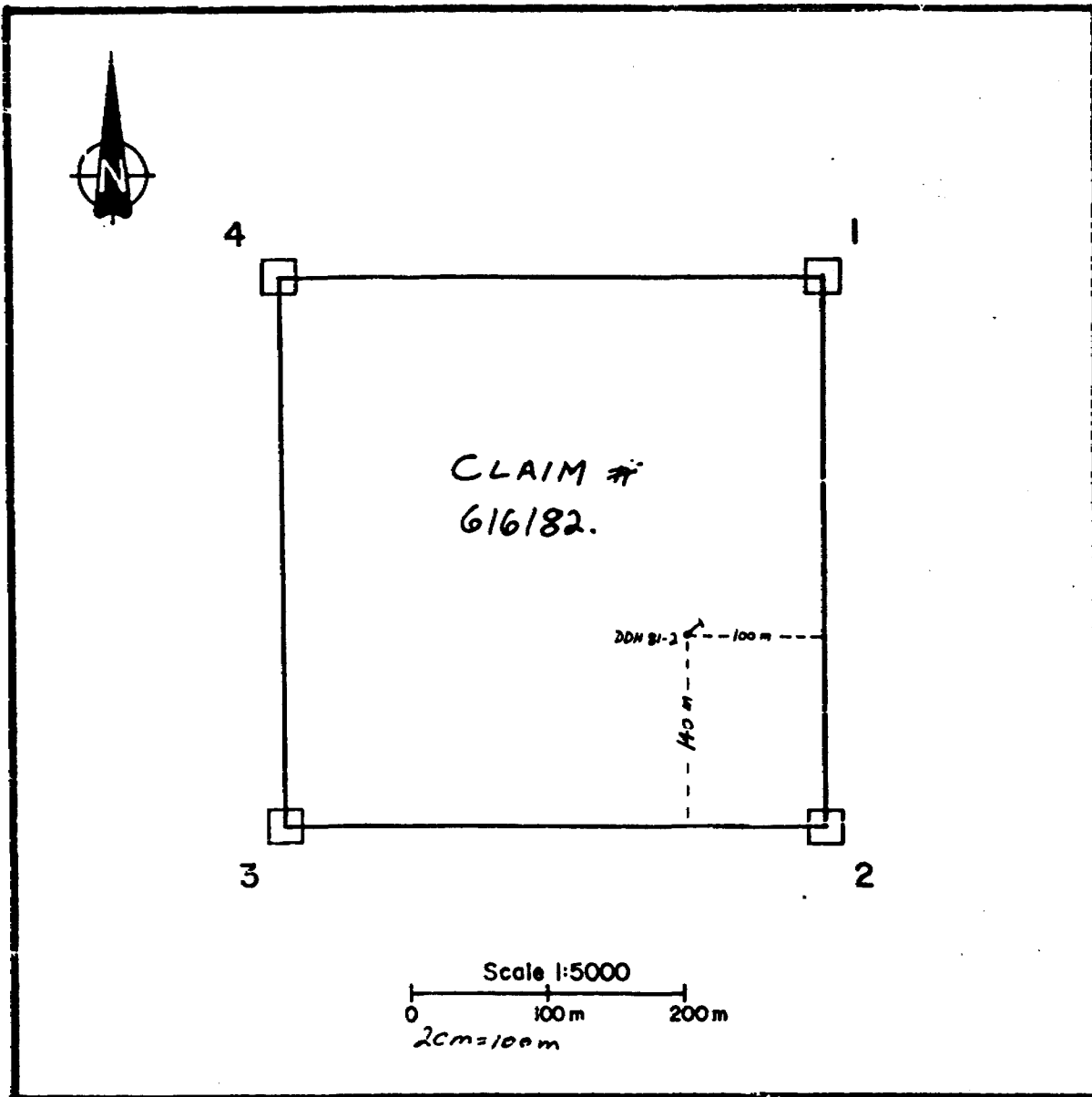
HOLE NO: 81-2

PROPERTY: Rhodes Township, Ontario

PAGE NO: 3 of 3

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS					
From	To			From	To		Au oz/T	Ag oz/T				
12.10	13.30	Extremely warped section with micro flow folding (micro crenulation) which includes felsic, intermediate and mafic inclusions with chloritized boundaries. Includes a 6 cm section of silvery-grey soft (h3-4) micaceous, unknown mineral. Includes, at 12.65-12.85, a fine grained, sea green, flow folded mafic section, possibly amphibolite. Fairly soft (h4-5), weakly magnetic due to minor po blebs.	169	12.10	13.30	1.20	nil	nil				
13.30	14.25	Uniform, fine grained diorite with lineated crystals which locally show flow folding and express a wispy, splayed texture.										
14.25	20.30	Banded dacite rock (tuff-tuffite) similar to 9.75-11.00 section. Thin (mm) planar, very siliceous beds at mm to cm intervals. Several 2-10 cm sections with 5% po as irregular blebs and stringers. Most stringers preferentially aligned sub-parallel to bedding. Very conductive.	170	18.45	18.48	.03						
			(7 qtz veins)	18.60	18.65	.05						
				19.20	19.24	.04						
				19.65	19.70	.05	nil	nil				
				20.20	20.25	.05						
				20.30	20.36	.06						
20.30	21.47	Monzonite: medium grained, equigranular to finely porphyritic. Several mafic xenoliths.		20.40	20.50	.10						
21.47	22.10	Andesite: medium green-grey, fine grained, wispy colour banding possibly tuffaceous sediment. 1-3% fine grained pyrrhotite as disseminations of fine stringers.										
22.10	23.50	Siliceous (cherty) tuff: light grey siliceous beds alternate with darker, more mafic beds. Some planar beds, but most are lenticular. Bedding at 80-90° to the core axis. 5% pyrrhotite as irregular blebs and stringers preferentially aligned, parallel to bedding. These po stringers are conductive.	171	21.47	22.50	1.03	nil	nil				
			172	22.50	23.50	1.00	nil	tr				
23.50	30.48	Diorite: fine grained, featureless, equigranular rock, probably on intrusive rock.										
30.48		End of hole.										

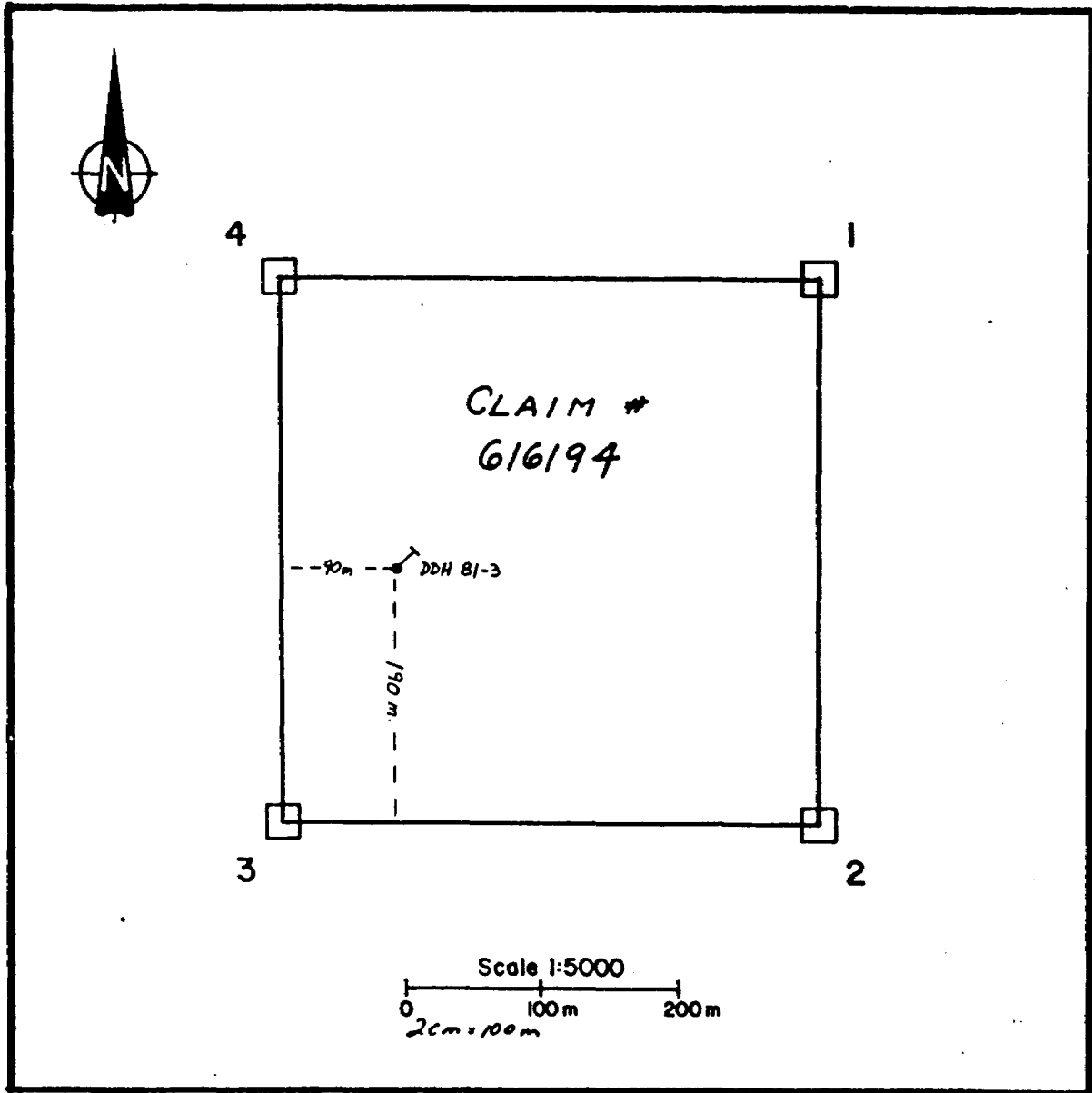
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RHODES PROJECT				
LOCATION MAP FOR				
DDH 81-2				
REV	DATE	BY	SCALE	P.L.
	Jan. 22/82	G.L. Tomlinson	1:5,000	41-I/14

QAN. 22/82

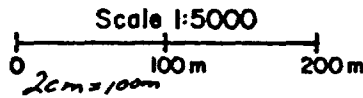
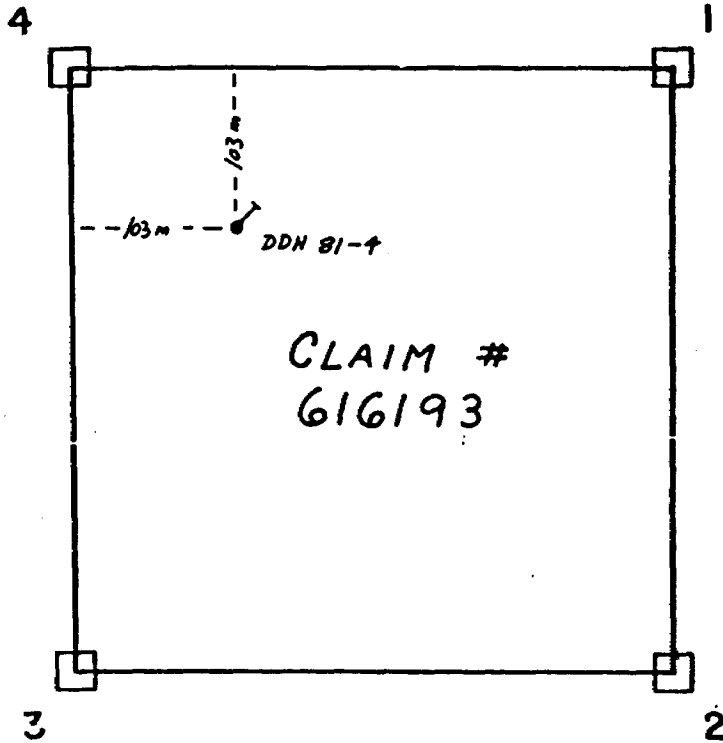
#23-82



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RHODES PROJECT LOCATION MAP FOR DDH 81-3				
REV	DATE	BY	SCALE	FILE
	Jan. 22/82	GLT	1:5,000	417/14

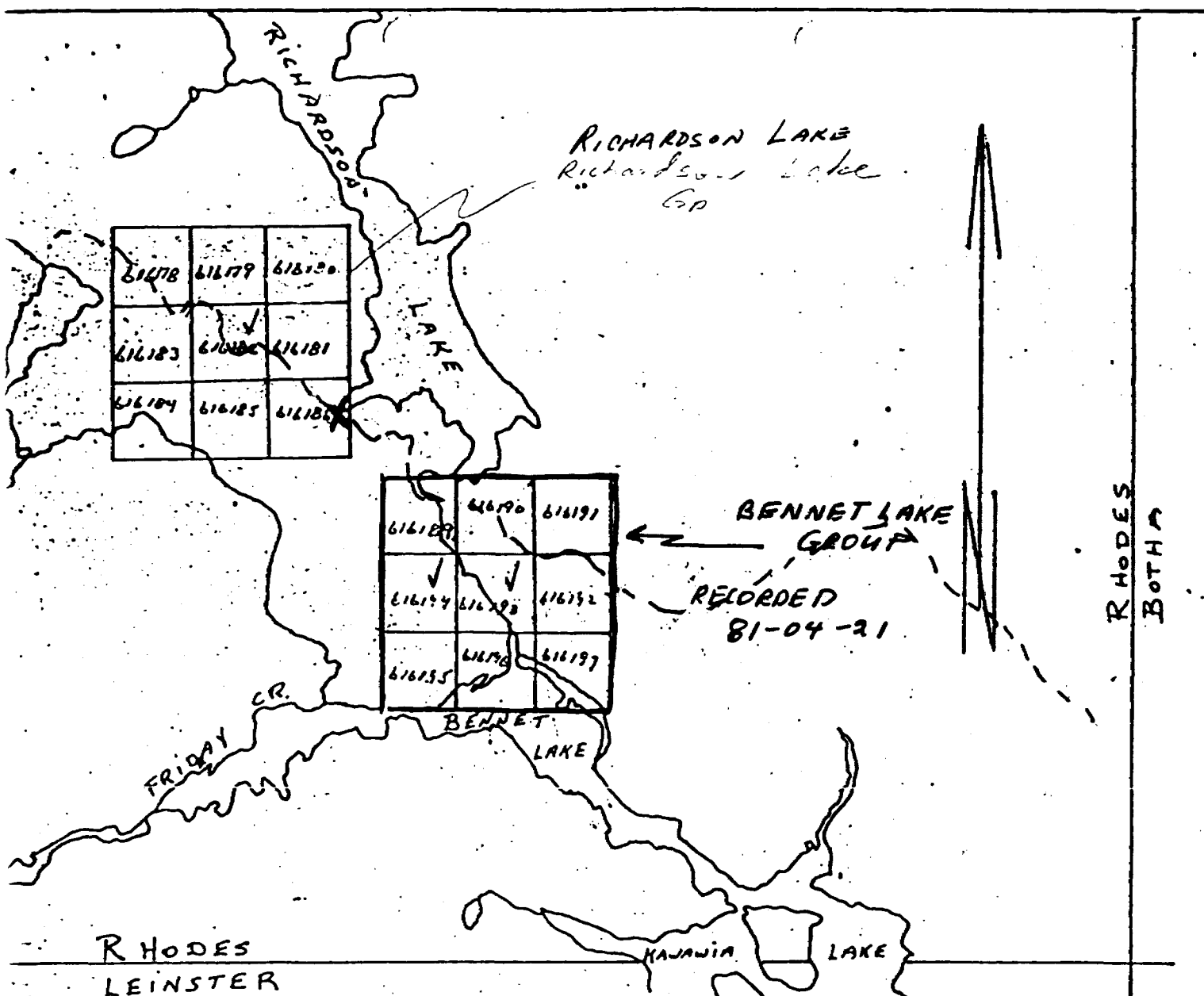
JAN. 22/82

METRES		DESCRIPTION	SAMPLE NO.	METRES		LENGTH	ASSAYS					
From	To			From	To		Au oz/T	Ag oz/T				
24.5	33.0	<u>Felsic flows:</u> sucrosic, weakly flow banded at 90° to core axis, warped in places.										
33.0	36.8	<u>Cherty felsic tuff:</u> same as 17.1-17.7. Bedding warped and, in places brecciated. Appears to be soft sediment deformation. 10% medium grained pyrrhotite as irregular blebs, and anastomosing stringers up to 5 cm thick. 1% pyrite as large (max. 5 mm) subhedral crystals at 34.5-36.8. Sulphides accompanied by fine grained yellow-green mineral (epidote?). Also 5% calcite.										
36.8	52.7	<u>Felsic flows:</u> similar to 7.9-17.1. Banded commonly on cm scale. Banding contorted but mainly at 70° to the core axis. 10% of interval composed of laminated tuffaceous chert interflows. 7% po and 1% py from 36.8-49.0. 1% of interval comprises milky, grey, cloudy quartz masses (veins?) 5% carbonate throughout. Banding at 90° to core axis at 51 m.	180	34.5	36.0	1.5	} nil	tr	Composite			
			181	36.0	37.5	1.5						
			182	37.5	39.0	1.5						
			183	39.0	40.5	1.5	} tr	0.10	Composite			
			184	40.5	42.0	1.5						
			185	42.0	43.5	1.5						
52.7		End of hole	186	43.5	45.0	1.5	} nil	0.10	Composite			
			187	45.0	46.5	1.5						
			188	46.5	48.0	1.5						
			189	48.0	49.0	1.0						
		NOTE: The E.M. conductor is interpreted to be caused by the section at 34.5-49.0 which contains 8% pyrrhotite and pyrite as semi-continuous, conductive stringers.										

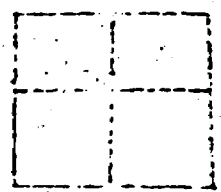


Hudbay Mining Limited A Subsidiary of Hudson's Bay Oil and Gas Company Limited				
RHODES PROJECT LOCATION MAP FOR DDH 81-4				
REV	DATE	BY	SCALE	APP.
	Jan. 22/82	G.L. Fisher	1:5,000	41-J/1A

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CORE LOCATION MAP

X CORE LOCATION (616186)
--- Bush ROAD

CLAIMS STAKED FOR:
HUBBAY MINING LTD
TWP: RHODES M-1077
DATE MARCH 28 TO MARCH 3 1981
Scale: 1" = 40 CHAINS 1" = 40 CHAINS



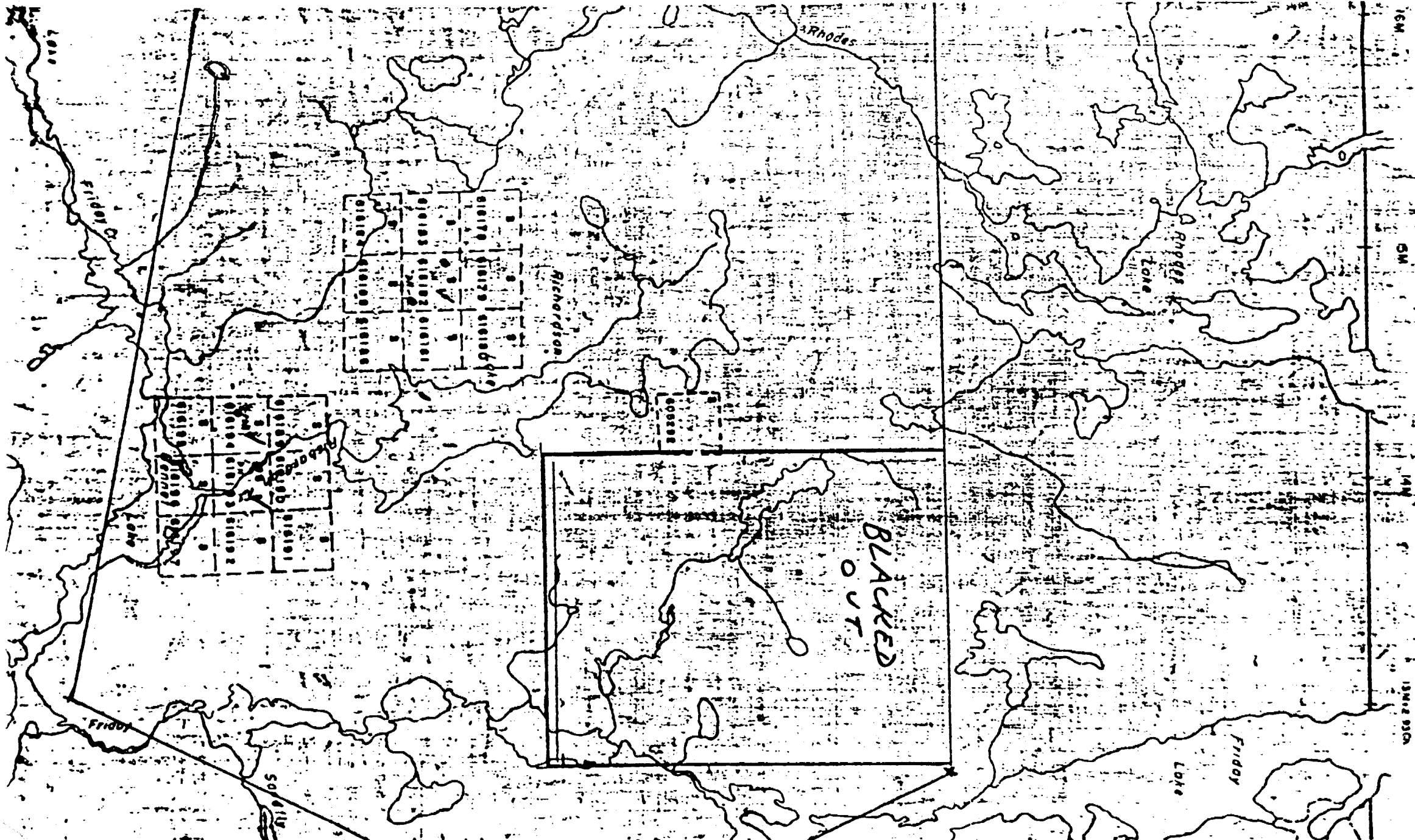
82-01-28

JEAN ALIX CO. LTD.



41P14NW1019 0010C1 RHODES

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*Handley map. 112.
Nov 181: 2A0H (183.18) 1 con.
DUNBAR TWP. M.768*

R. Hodder T.P.