DIAMOND DRILL LOGS

TO ACCOMPANY

SUMMARY REPORT - 1979

MOYIE PROJECT 077-01

Southeastern B.C., Idaho, Montana

May 1980

Vancouver, B.C.

L.A. Tihor

FALCONBRIDGE
DIAMOND DRILL RECORD

NORTH 49°04'15" | STARTED Oct 14/79 | PROPERTY YAHK | PURPOSE To test EM-16 and proton mag anomalies | HOLE No. YA-1

WEST 115°57'15" | COMPLETED Oct 18/79 | CLAIM LARCH

ELEV. 1173 M. | LENGTH 125 M. | SECTION

BEARING Vertical | OFFSET

DIP -90° | BQ core | LOGGED BY L. A. Tihor | PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
0 - 27.12 m.	Overburden - casing removed after completion of drilling							
27.12 - 36.58	Coarse gabbroic rock - dark green.							
36.58 - 40.23	Strongly sheared and very rusty gabbro.							
40.23 - 86.87	Coarse-grained gabbroic rock							
86.87 - 102.72	Medium-grained black gabbroic rock							
102.72 - 114.0	Coarse-grained dark green gabbroic rock.							
114.0 - 116.43	Loose sand - poor recovery.							
116.43 - 125.0	Coarse-grained gabbroic rock.							
	END							

V-11.

FALCONBRIDGE
DIAMOND DRILL RECORD

NORTH 49°3'20" | STARTED Oct. 20/79 | PROPERTY YAHK | PURPOSE To test EM-16 anomaly & obtain geologic data | HOLE No. YA-2

WEST 115°57'30" | COMPLETED Oct 24/79 | CLAIM Larch

ELEV. 1113 m. | LENGTH 183.5 m. | SECTION

BEARING Vertical | LOGGED BY L. A. Tihor | OFFSET

DIP -90° @ collar-89° @ 150 m. BQ core | PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
36.58 0 - 36.58 m.	Overburden - casing removed from hole when drilling completed.							
2.40 36.58 - 38.98	Regularly interbedded dark grey argillaceous siltstone and medium grey quartzwacke - poor graded bedding common - beds average 0.48 m. thick.							
.10 38.98 - 39.08	Med. grey argillite							
.12 39.08 - 39.20	Quartzwacke							
.06 39.20 - 39.26	Argillite							
.82 39.26 - 40.08	Quartzwacke.							
9.39 40.08 - 49.47	Siltstone with minor finely laminated interbeds argillite - load structures common.							
1.74 49.47 - 51.21	Soft silty argillite with 3% pyrite in beds 1.5 mm. thick and in crosscutting veinlets.							
.64 51.21 - 51.85	Fine - grained quartzwacke							
1.67 51.85 - 53.52	Soft argillaceous siltstone with <2% splotchy pyrite.							
4.09 53.52 - 57.61	Quartzwacke.							
7.31 57.61 - 64.92	Dark grey, soft argillaceous siltstone with <2% bedded and splotchy pyrite and minor quartzwacke beds.							

V-11.

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
64.92 - 65.23 (.31)	Quartzwacke.							
65.23 - 66.54 (1.31)	Silty argillite with trace pyrite - siltstone near base.							
66.54 - 66.96 (.42)	Silty argillite.							
66.96 - 67.85 (.89)	Siltstone with argillaceous interbeds.							
67.85 - 68.15 (.30)	Quartzwacke.							
68.15 - 68.28 (.13)	Silty argillite							
68.28 - 69.34 (1.06)	Quartzite.							
69.34 - 69.98 (.64)	Silty argillite							
69.98 - 70.16 (.18)	Quartzite.							
70.16 - 71.11 (.95)	Argillaceous siltstone with argillite interbeds.							
71.11 - 73.30 (2.19)	Silty argillite.							
73.30 - 76.72 (3.42)	Interbedded quartzwacke and argillaceous siltstone - beds average 0.32 m. thick.							
76.72 - 78.36 (1.64)	Silty argillite - minor pyrite.							
78.36 - 80.77 (2.41)	Interbedded impure quartzite and argillite - quartzite beds average 0.18 m. thick; argillite beds average 0.09 m. thick.							
80.77 - 80.95 (.18)	Argillite with silty base.							
80.95 - 82.54 (1.59)	Silty argillite - minor pyrite,							
82.54 - 82.91 (.37)	Quartzwacke.							

SHEET No. _____

HOLE No. YA 2 Psge 2

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
82.91 - 83.21 (.30)	Interbedded argillite and quartzwacke - argillite beds average 0.04 m. thick; quartzwacke 0.09 m. thick .							
83.21 - 83.58 (.37)	Quartzwacke.							
83.58 - 84.40 (.82)	Thin bedded laminar argillite, silty in places.							
84.40 - 88.27 (3.87)	Regularly interbedded impure quartzite and argillite - quartzite beds average 0.17 m. thick; argillite beds average 0.07 m. thick.							
88.27 - 90.07 (1.80)	Interbedded argillite and siltstone - beds average 0.24 m. thick							
90.07 - 90.74 (.67)	Quartzite.							
90.74 - 92.93 (2.19)	Interbedded argillite and quartzwacke - argillite beds average 0.34 m. thick, quartzwacke beds average 0.13 m. thick.							
92.93 - 93.27 (.34)	Very soft buff coloured argillite.							
93.27 - 93.30 (.03)	Quartzwacke.							
93.30 - 94.09 (.79)	Very soft buff soloured argillite.							
94.09 - 97.38 (3.29)	Interbedded quarzwacke and grey argillite - quartzwacke averages 0.31 m. thick, argillite averages 0.16 m. thick.							
97.38 - 98.60 (1.22)	Quartzwacke with minor silty portions.							
98.60 - 98.91 (.31)	Argillite with siltstone base.							
98.91 - 99.55 (0.64)	Interbedded argillaceous siltstone and quartzwacke - beds average 0.07 m. thick.							

SHEET No. _____

HOLE No. YA-2 Page 3

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
99.55 - 99.94 (.39)	Quartzite							
99.94 - 100.40 (.46)	Argillite with siltstone lenses.							
100.40 - 101.50 (1.10)	Interbedded argillite (average 0.11 m. thick),							
101.50 - 109.88 (8.38)	siltstone (average 0.14 m. thick) and dark grey silty argillite, commonly carrying > 5%							
	pyrite in lamellae and veinlets - many silty zones - grades into chiefly siltstone in bottom 1.5 m.							
109.88 - 113.51 (3.63)	Quartzite beds averaging 0.36 m. thick with argillite							
	partings averaging 0.02 m. thick and minor quartz-wacke .							
113.51 - 113.75 (.24)	Argillite.							
113.75 - 113.84 (.09)	Quartzwacke.							
113.84 - 116.83 (2.99)	Silty argillite with siltstone portions and very							
	soft argillite portions - <3% pyrite.							
116.83 - 116.98 (.15)	Quartzwacke.							
116.98 - 117.13 (.15)	Silty Argillite.							
117.13 - 117.65 (.52)	Quartzite.							
117.65 - 117.77 (.12)	Argillaceous siltstone.							
117.77 - 120.46 (2.69)	Interbedded quartzwacke and silty argillite with minor							
	siltstone portions - quartzwacke beds average 0.22 m. thick, argillite averages 0.10 m. thick.							
120.46 - 120.91 (.45)	Quartzite.							
120.91 - 121.71 (.80)	Interbedded quartzwacke (averaging 0.18 m. thick)							
	and silty argillite (averaging 0.7 m. thick).							

SHEET No. ✓

HOLE No. YA-2 Page 4

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.91 121.71 - 122.62	Argillaceous siltstone.							
4.36 122.62 - 126.98	Interbedded quartzwacke or impure quartzite (averaging 0.29 m. thick) and argillaceous siltstone (averaging -/15 m. thick).							
5.02 126.98 - 132.0	Interbedded quartzite (beds average 0.42 m. thick) and siltstone, in part argillaceous (beds average 0.04 m. thick).							
3.24 132.0 - 135.24	Interbedded quartzite (beds average 0.24 m. thick) and argillaceous siltstone (beds average 0.11 m. thick).							
1.19 135.24 - 136.43	Quartzite.							
1.13 136.43 - 137.56	Interbedded quartzite (beds average 0.35 m.) and silty argillite (beds average 0.03 m. thick).							
.27 137.56 - 137.83	Interbedded quartzite (beds average 0.07 m. thick)and silty argillite (beds average 0.04 m. thick).							
.55 137.83 - 138.38	Quartzite.							
.91 138.38 - 139.29	Interbedded argillaceous siltstone (average bed thickness 0.10 m.) and quartzite (average thickness 0.11 m.)							
1.83 139.29 - 141.12	Interbedded quartzite (average bed thickness 0.29 m.) and silty argillite (average bed thickness 0.31 m.).							
.40 141.12 - 141.52	Interbedded quartzwacke (average bed thickness 0.09 m.) and silty argillite (average bed thickness 0.06 m.).							
.55 141.52 - 142.07	Silty argillite - some crossbedding.							

SHEET No. _____

HOLE No. YA-2 Page 5

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
,52 142.07 - 142.59	Interbedded quartzwacke (average bed thickness 0.14 m.) and silty argillite (average bed thickness 0.12 m.).							
1.89 142.59 - 144.48	Interbedded quartzwacke (average bed thickness 0.23 m.) and argillaceous siltstone (average bed thickness 0.10 m.).							
,48 144.48 - 144.96	Argillaceous siltstone.							
1.07 144.96 - 146.03	Thin bedded soft brownish-grey argillite - very thin lamellae common - minor crossbedding - trace pyrite.							
4.88 146.03 - 150.91	Interbedded impure quartzite (beds average 0.19 m. thick) and silty argillite (beds average 0.12 m. thick).							
1.19 150.91 - 152.10	Argillaceous siltstone with interbedded argillite.							
1.24 152.10 - 153.34	Interbedded quartzwacke (average bed thickness 0.10 m.) and silty argillite (average bed thickness 0.06 m.).							
2.63 153.34 - 155.97	Interbedded quartzwacke (average bed thickness 0.18 m.) and argillaceous siltstone (average bed thickness 0.17 m.).							
1.49 155.97 - 157.46	Interbedded quartzite (average thickness of beds 0.46 m.) and silty argillite (average 0.06 m.).							
.88 157.46 - 158.34	Finely laminated argillite.							
1.62 158.34 - 159.96	Interbedded impure quartzite (beds average 0.15 m. Thick) siltstone (beds average 0.08 m. thick) and argillite (beds average 0.05 m. thick).							
,24 159.96 - 160.20	Argillite with siltstone interbeds.							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
160.20 - 160.32 (.12)	Siltstone.							
160.32 - 160.78 (.46)	Argillaceous siltstone.							
160.78 - 161.15 (.37)	Quartzwacke.							
161.15 - 161.76 (.61)	Silty argillite with siltstone interbeds.							
161.76 - 163.92 (2.16)	Argillaceous siltstone.							
163.92 - 169.71 (5.79)	Interbedded impure quartzite (beds average 0.16 m. thick) and argillaceous siltstone (beds average 0.13 m. thick).							
169.71 - 170.26 (.55)	Thinly laminated argillite with silty lenses.							
170.26 - 170.93 (.67)	Interbedded impure quartzite (average bed thickness 0.16 m.) and silty argillite (average bed thickness 0.09 m.).							
170.93 - 171.36 (.43)	Interbedded argillaceous siltstone (average bed thickness 0.09 m.) and hard siltstone (average bed thickness 0.05 m.).							
171.36 - 173.64 (2.28)	Interbedded impure quartzite (average bed thickness 0.24 m.) and argillaceous siltstone (average bed thickness 0.05 m.)							
173.64 - 173.74 (.10)	Argillaceous siltstone.							
173.74 - 173.83 (.09)	Argillaceous siltstone with argillite top.							
173.83 - 174.25 (.42)	Quartzite.							
174.25 - 175.32 (1.07)	Silty argillite with siltstone lenses.							
175.32 - 175.44 (.12)	Quartzwacke.							
175.44 - 176.27 (.83)	Thinly bedded argillite - silty in part - spectacular contrasting lemellae.							

FNMIS TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.18 176.27 - 176.45	Quartzwacke.							
.12 176.45 - 176.57	Argillaceous siltstone.							
.79 176.57 - 177.36	Quartzite.							
2.14 177.36 - 179.50	Interbedded impure quartzite (average bed thickness 0.32 m.) and silty argillite (average bed thickness and minor siltstone 0.08 m.).							
.03 179.50 - 179.53	Quartzwacke.							
.12 179.53 - 179.65	Silty argillite grading to siltstone at base.							
1.40 179.65 - 181.05	Silty argillite with silty lenses.							
.06 181.05 - 181.11	Siltstone.							
1.01 181.11 - 182.12	Interbedded impure quartzite (beds average 0.48 m. thick) and silty argillite (beds average 0.06 m. thick).							
1.37 182.12 - 183.49	Silty argillite with siltstone interbeds - graded bedding in many silty argillite beds.							
✓	END							
$\bar{x}$ = 1.37								
σ_{n-1} = 1.76								
σ_n = 1.79								
σ^2 = 2.85								

SHEET No. _____

HOLE No. YA-2 Page 8

DDH #2

Metres	MARKED	GOLD		SILVER		Cu	Pb	Zn	
		Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent
49.5 - 51.2	15151	<0.002		0.02		<0.01	<0.01	<0.01	
51.9 - 53.6	15152	<0.002		0.16		<0.01	<0.01	<0.01	
53.6 - 54.9	15153	<0.002		0.08		<0.01	<0.01	<0.01	
54.9 - 56.4	15154	<0.002		0.03		<0.01	<0.01	<0.01	
56.4 - 57.6	15155	<0.002		0.10		<0.01	<0.01	<0.01	
57.6 - 59.5	15156	<0.002		0.02		<0.01	<0.01	<0.01	
59.5 - 61.0	15157	<0.002		0.18		<0.01	<0.01	<0.01	
61.0 - 62.5	15158	<0.002		0.12		<0.01	<0.01	<0.01	
62.5 - 64.1	15159	<0.002		0.03		<0.01	<0.01	<0.01	
64.1 - 65.6	15160	<0.002		0.02		<0.01	<0.01	<0.01	
65.6 - 67.1	15161	<0.002		<0.02		<0.01	<0.01	<0.01	
67.1 - 67.7	15162	<0.002		<0.02		<0.01	<0.01	<0.01	
73.4 - 74.7	15163	<0.002		0.02		<0.01	<0.01	<0.01	
74.7 - 76.3	15164	<0.002		0.04		<0.01	<0.01	<0.01	
76.3 - 77.8	15165	<0.002		0.03		<0.01	<0.01	<0.01	
77.8 - 78.4	15166	<0.002		0.03		<0.01	<0.01	<0.01	

NORTH 49°03'30" STARTED Oct 26, 1979

WEST 115°57'20" COMPLETED Oct 28, 1979

ELEV. 1158 m. LENGTH 139 m.

BEARING vertical

DIP -90° BQ Core

FALCONBRIDGE
DIAMOND DRILL RECORD

PROPERTY YAHK

PURPOSE To test EM-16 anomaly & gather geological data

LOGGED BY L. A. Tihor

HOLE No. YA 3

CLAIM Larch

SECTION

OFFSET

PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.
0 - 12.2 m. (12.2m.)	Overburden.			
12.2 - 14.57 (2.37)	Interbedded dark grey argillaceous siltstone (average bed thickness 0.39 m.) and argillite (average bed thickness 0.26 m.) - all beds show crudely graded bedding from argillaceous top, through siltstone to quartz-rich base.			
14.57 - 15.18 (.61)	Medium grey quartzwacke - slightly silty near top - massive.			
15.18 - 15.48 (.30)	Medium to dark grey argillaceous siltstone.			
15.48 - 15.70 (.22)	Quartzwacke, medium grey.			
15.70 - 16.40 (.70)	Quartzwacke - silty near top - from 15.64 to 15.99 m. light grey (bleached, silicified?) zone containing many disseminated pink splotches up to 5 mm. in diameter - size of splotches increases toward bottom of this zone.			
16.40 - 17.71 (1.31)	Repeated graded beds - each bed (averaging 0.15 m. thick) grades from argillite at top, through siltstone to silicious, quartzwacke - like base.			
17.71 - 18.83 (1.12)	Interbedded argillaceous siltstone (average bed thickness 0.15 m.) and silty quartzwacke (average thickness 0.91 m.).			
18.83 - 29.57 (10.74)	Repeated beds of argillaceous siltstone (average bed thickness 0.34 m.) - beds commonly grade from argillite at top through siltstone to almost quartzwacke base -			

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
	- occassional silicious bleached zones containing							
	disseminated black spots and pink spots.							
(.24) 29.57 - 29.81	Medium grey quartzwacke.							
(1.22) 29.81 - 31.03	Light grey quartzite - bottom 0.08 m. grey silicified							
	zone with pink & black spots.							
(.19) 31.03 - 31.21	Very soft grey argillite.							
(.03) 31.21 - 31.24	Quartzwacke.							
(.34) 31.24 - 31.58	Quartzite grading upward into argillite.							
(.18) 31.58 - 31.76	Quartzite grading upward into argillite.							
(6.83) 31.76 - 38.59	Repeated argillaceous siltstone beds - commonly argillite							
	near top of beds - occassionally near quartzite at base							
	of beds - few zones bleached, silicious. (average							
	bed thickness 0.18 m.). Minor quartzwacke.							
(.82) 38.59 - 39.41	Quarzite with visible quartz grains. - quartzwacke							
	near top.							
(.67) 39.41 - 40.08	Siltstone beds, argillaceous near top (average							
	thickness 0.15 m.)							
(.46) 40.08 - 40.54	Quartzwacke with silty to narrow argillaceous top.							
(.46) 40.54 - 41.00	Quartzwacke with narrow argillite top.							
(.88) 41.00 - 41.88	Repeated siltstone beds with argillite tops							
	(average bed thickness 0.07 m.).							

SHEET No. _____

HOLE No. YA-3 Page 2

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
1.01 41.88 - 42.89	Quartzite with visible quartz grains and narrow silty top.							
.27 42.89 - 43.16	Quartzwacke with narrow argillite top .							
.82 43.16 - 43.98	Fine grained quartzite with narrow silty top & quartz-wacke base.							
.55 43.98 - 44.53	Repeated siltstone beds with argillaceous tops (average bed thickness 0.14 m.).							
.95 44.53 - 45.48	Quartzite - quartzwacke top.							
1.40 45.48 - 46.88	Repeated beds siltstone with argillaceous tops - minor sections bleached silicious zones (beds average 0.14 m.).							
.30 46.88 - 47.18	Quartzwacke with silty top.							
1.13 47.18 - 48.31	Repeated beds siltstone with argillaceous tops (average thickness 0.19 m.).							
4.18 48.31 - 52.49	Interbedded quartzwacke (averaging 0.15 m. thick) and sily argillite (average 0.11 m. thick).							
4.39 52.49 - 56.88	Interbedded quartzite (average bed thickness 0.19 m.) and argillite (average bed thickness 0.06 m.).							
.03 56.88 - 56.91	Quartzwacke.							
.39 56.91 - 57.30	Argillite with veinlets of pyrite 8% from 57.06 to 57.12 generally thinly laminated.							

SHEET No. _____

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.58 57.30 - 57.88	Interbedded quartzwacke (average bed 0.05 m.) and argillite (average 0.14 m.).							
2.47 57.88 - 60.35	Interbedded quartzite (average bed 0.17 m.) and laminated argillite (average section thickness 0.26 m.) and minor siltstone.							
.12 60.35 - 60.47	Narrow interbeds argillite and quartzwacke.							
.28 60.47 - 60.75	Argillite with endogious conglomerate.							
.30 60.75 - 61.05	Quartzite with bleached, pink & black spotted section from 60.87 to 61.02 m.							
5.91 61.05 - 66.96	Interbedded impure quartzite (average bed thickness 0.62 m.) and finely laminated argillite (0.51 m.)							
.80 66.96 - 67.76	Interbedded quartzwacke (average bed thickness 0.12 m) and argillite (average thickness 0.08 m.).							
1.86 67.76 - 69.62	Quartzite.							
.27 69.62 - 69.89	Silty Argillite							
.61 69.89 - 70.50	Quartzite.							
.79 70.50 - 71.29	Interbedded impure quartzite (average bed thickness 0.15 m.) and argillite (average thickness 0.07 m.).							
.73 71.29 - 72.02	Quartzite.							
.07 72.02 - 72.09	Argillite.							
1.58 72.09 - 73.67	Quartzite.							

SHEET No. _____

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.61 73.67 - 74.28	Interbedded quartzwacke (average bed thickness 0.12 m) and silty argillite (average bed thickness 0.06 m.).							
1.43 74.28 - 75.71	Quartzite.							
2.62 75.71 - 78.33	Interbedded quartzwacke (average bed thickness 0.12 m) and silty argillite (average thickness 0.10 m.).							
3.36 78.33 - 81.69	Interbedded quartzite (average thickness 0.54 m.) and silty argillite (average bed thickness 0.11 m.)							
1.03 81.69 - 82.72	Interbedded quartzwacke (average thickness of beds 0.10 m.) and argillaceous siltstone (average thickness 0.10 m.)							
.55 82.72 - 83.27	Quartzite.							
.06 83.27 - 83.33	Siltstone.							
.06 83.33 - 83.39	Quartzwacke.							
.43 83.39 - 83.82	Argillaceous siltstone - irregular bleached silicified zone between 83.48 and 83.55.							
.30 83.82 - 84.12	Quartzite							
.30 84.12 - 84.42	Interbedded siltstone and argillite.							
.22 84.42 - 84.64	Quartzite.							
.64 84.64 - 85.28	Argillite with irregular silt lenses							
.61 85.28 - 85.89	Quartzite.							
.06 85.89 - 85.95	Argillite.							

SHEET No. _____

HOLE No. YA-3 Page 5

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.16 85.95 - 86.11	Quartzite							
.03 86.11 - 86.14	Argillite							
1.22 86.14 - 87.36	Quartzite							
.79 87.36 - 88.15	Interbedded argillite (average bed thickness 0.07 m) and quartzite (average thickness 0.22 m.) - at 88.09 m. qtz vein 2 mm. wide.							
.46 88.15 - 88.61	Silty argillite.							
.24 88.61 - 88.85	Interbedded quartzite (beds average 0.08 m.) and silty argillite (beds average 0.05 m.)							
1.04 88.85 - 89.89	Quartzite							
.15 89.89 - 90.04	Argillite							
.64 90.04 - 90.68	Quartzite							
.58 90.68 - 91.26	Interbedded silty argillite (average bed thickness 0.06 m.) and quartzite (average bed thickness 0.20 m).							
557 91.26 - 96.83	Interbedded quartzwacke (average bed thickness 0.17 m) and silty argillite (average bed thickness 0.13 m.) with few thin beds siltstone.							
0.34 96.83 - 97.17	Quartzwacke.							
.52 97.17 - 97.69	First appearance of dark grey sulphide-rich soft argillite - irregular silty lenses - <5% pyrite in beds and tiny veinlets.							
.64 97.69 - 98.33	Siltstone							
.03 98.33 - 98.36	Quartzwacke							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.01 98.36 - 98.37	Argillite							
.29 98.37 - 98.66	Quartzwacke							
.49 98.66 - 99.15	Silty argillite - trace pyrite.							
.21 99.15 - 99.36	Hard silicious siltstone with quartzwacke base							
	- bleached & silicified with black & pink spots between 99.21 and 99.27.							
2.38 99.36 - 101.74	Interbedded silty argillite (trace pyrite), siltstone							
	and quartzwacke - beds tend to be crudely graded from argillite tops through siltstone to quartzwacke base							
.61 101.74 - 102.35	(average bed thickness 0.24 m.). Silty argillite with narrow siltstone base; <2%							
	bedded and fracture-filling pyrite in top 0.3 m.							
.40 102.35 - 102.75	Silty argillite - trace pyrite.							
.09 102.75 - 102.84	Quartzwacke							
.73 102.84 - 103.57	Argillaceous siltstone with siltstone base.							
.49 103.57 - 104.06	Argillaceous siltstone.							
.06 104.06 - 104.12	Quartzwacke.							
.18 104.12 - 104.30	Siltstone with argillite top.							
1.71 104.30 - 106.01	Argillite with silty portions particularly near							
	base - siltstone lenses at and near base look like rip-up clasts from underlying quartzwacke.							
.33 106.01 - 106.34	Quartzwacke full of pink spots.							
1.56 106.34 - 107.90	Soft sulphide-rich argillite with siltstone base.							
4.51 107.90 - 112.41	Soft sulphide-rich argillite with siltstone base							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
	- visible quartz grains near base - pyrite is in thin laminations and fractures.							
4.39 112.41 - 116.80	Silty argillite with pyrite laminations and veinlets - grades to quartzwacke in bottom 0.12 m.							
.24 116.80 - 117.04	Pyrite-bearing silty argillite.							
.13 117.04 - 117.17	Quartzwacke with pyrite veinlets near top.							
.79 117.17 - 117.96	Argillaceous siltstone.							
.09 117.96 - 118.05	Quartzwacke.							
1.74 118.05 - 119.79	Silty argillite - trace pyrite, mostly in bottom 0.09 m.							
3.96 119.79 - 123.75	Pyrite-rich argillite in laminations, splotches and veinlets - about 10% pyrite.							
1.40 123.75 - 125.15	Quartzite.							
.12 125.15 - 125.27	Argillite with siltstone base.							
.09 125.27 - 125.36	Argillite with siltstone base.							
2.75 125.36 - 128.11	Interbedded quartzite (beds average 0.44 m. thick) and silty argillite (beds average 0.06 m.).							
4.02 128.11 - 132.13	Interbedded quartzwacke (beds average 0.24 m. thick) and silty argillite (beds average 0.20 m. thick) between 128.81 and 128.93 scattered pink spots occur in quartzwacke.							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
1.07 132.13 - 133.20	Interbedded argillite (average bed thickness 0.14 m.) and siltstone (average bed thickness 0.08 m.).							
5.80 133.20 - 139.00	Interbedded quartzwacke (average bed thickness 0.20 m) and silty argillite (average bed thickness 0.26 m).							
	END							

SHEET No. _____

HOLE No. YA-3 Page 9

FALCONBRIDGE
DIAMOND DRILL RECORD

NORTH 49° 03' 25"
West
~~EAST~~ ~~115° 57' 20"~~
ELEV. 1165 m.
BEARING Vertical
DIP - 90° BQ core

STARTED OCt 29 '79
COMPLETED Oct 31 '79
LENGTH 139.3 m

PROPERTY
YAHK

PURPOSE To test EM 16 anomaly and obtain geologic data
LOGGED BY L.A.Tihor

HOLE No. YA-4
CLAIM Larch
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.
56.99 0-56.99 m	Overburden			
.22 56.99 - 57.21	Argillaceous siltstone			
2.17 57.21 -59.38	Interbedded quartizite (average bed thickness 0.64 m)			
	and silty argillite (average 0.36 m)			
.45 59.38-59.83	Argillaceous siltstone - bleached section from 59.56 m			
	to 59.62 m with pink and black spots			
.22 59.83 - 60.05	Quartzwacke			
.24 60.05 - 60.29	Argillaceous siltstone			
1.04 60.29 - 61.33	Interbedded silty argillite (average bed thickness			
	0.24 m) and quartzite (average bed thickness 0.27 m).			
.33 61.33 - 61.66	Argillaceous siltstone			
.03 61.66 - 61.69	Very distinctive black and white alternating laminae			
	argillite			
.06 61.69 - 61.75	Siltstone			
3.48 61.75 - 65.23	Interbedded silty argillite (average bed thickness			
	0.11 m) and quartzite (average thickness 0.34 m)			

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.76 65.23 - 65.99	Quartzite							
.55 65.99 - 66.54	Interbedded silty argillite (average bed thickness							
	0.08 m) and quartzite (average 0.08 m)							
.73 66.54 - 67.27	Quartzite.							
.03 67.27 - 67.30	Argillaceous siltstone.							
.43 67.30 - 67.73	Quartzite.							
.64 67.73 - 68.37	Dark grey thinly laminated argillite							
2.13 68.37 - 70.50	Interbedded quartzite (average bed thickness 0.24 m)							
	and silty argillite (average bed thickness 0.19 m)							
1.95 70.50 - 72.45	Quartzite.							
3.90 72.45 - 76.35	Interbedded silty argillite (average bed thickness							
	0.10 m) and quartzite (average thickness 0.45 m)							
.95 76.35 - 77.30	Interbedded silty argillite (average bed thickness							
	0.30 m) and quartzwacke (average 0.13 m) and							
	minor siltstone.							
.42 77.30 - 77.72	Quartzite.							
.46 77.72 - 78.18	Argillite.							
.06 78.18 - 78.24	Fine grained quartzite.							
.22 78.24 - 78.46	Interbedded argillite (average bed thickness 0.03 m)							
	and quartzwacke (average bed thickness 0.05 m)							

SHEET No. _____

HOLE No. YA-4 Page 2

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
1.76 78.46 - 80.22	Interbedded quartzite (average bed thickness 0.15 m)							
	and argillite (average thickness 0.10 m).							
.92 80.22 - 81.14	Thin bedded argillite with silty portions.							
.09 81.14 - 81.23	Quartzite.							
.15 81.23 - 81.38	Argillaceous siltstone.							
.21 81.38 - 81.59	Quartzwacke.							
3.21 81.59 - 84.80	Interbedded quartzite (average bed thickness 0.21 m)							
	and silty argillite (average bed thickness 0.11 m)							
.42 84.80 - 85.22	Graded siltstone - argillaceous near top - quartzwacke							
	near bottom.							
1.01 85.22 - 86.23	Silty argillite - bleached zone from 85.34 to 85.40 m							
	with mafic mineral segregations - minor pyrite.							
.85 86.23 - 87.08	Interbedded quartzwacke (average bed thickness 0.15 m)							
	and argillite (average bed thickness 0.08 m)							
2.17 87.08 - 89.25	Interbedded argillite (average bed thickness 0.08 m)							
	and hard siltstone (average thickness 0.12 m)							
.30 89.25 - 89.55	Interbedded quartzwacke (average thickness 0.13 m)							
	and argillite (average thickness 0.02 m)							
1.07 89.55 - 90.62	Interbedded siltstone (average bed thickness 0.10 m)							
	and argillite (average thickness 0.08 m)							

SHEET No. _____

HOLE No. YA-4 Page 3

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
90.62 (.45) - 91.07	Interbedded quartzwacke (average bed thickness 0.10 m) and argillite (average 0.08 m)							
91.07 (4.00) - 95.07	Thin bedded silty argillite with siltstone and argillite portions - minor amounts of thinly bedded and disseminated pyrite throughout.							
95.07 (.02) - 95.09	Quartzwacke with minor pyrite in blobs.							
95.09 (4.88) - 99.97	Interbedded silty argillite (average bed thickness 0.16 m) and quartzite (average bed thickness 0.65 m)							
99.97 (.74) - 100.71	Interbedded argillite (average bed thickness 0.08 m) and siltstone (average thickness 0.08 m)							
100.71 (.12) - 100.83	Quartzwacke.							
100.83 (.85) - 101.68	Silty argillite							
101.68 (.79) - 102.47	Argillaceous siltstone with minor argillite.							
102.47 (.19) - 102.66	Argillite.							
102.66 (.12) - 102.78	Quartzwacke.							
102.78 (1.83) - 104.61	Repeated beds of siltstone (average thickness 0.31 m) with argliilte tops.							
104.61 (1.25) - 105.86	Silty argillite with siltstone base.							
105.86 (.12) - 105.98	Quartzwacke.							
105.98 (.61) - 106.59	Repeated beds of silty argillite (average thickness 0.12 m) with siltstone bases.							

SHEET No. _____

HOLE No. YA-4 Page 4

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.46								
106.59 - 107.05	Quartzite.							
2.98								
107.05 - 110.03	Interbedded argillite (average bed thickness 0.12m)							
	and quartzwacke (average thickness 0.15 m)							
.52								
110.03 - 110.55	Repeated thin beds grading from argillite at tops							
	to siltstone at base of each.							
1.68								
110.55 - 112.23	Interbedded quartzwacke (averaging 0.35 m thick							
	and silty argillite (average 0.10 m thick).							
2.59								
112.23 - 114.82	Interbedded silty argillite (average 0.09 m) and							
	quartzite							
1.61								
114.82 - 116.43	Quartzite.							
.31								
116.43 - 116.74	Silty argillite.							
.46								
116.74 - 117.20	Siltstone.							
.82								
117.20 - 118.02	Interbedded argillite (average bed thickness 0.05 m)							
	and quartzite (average 0.22 m).							
2.19								
118.02 - 120.21	Interbedded siltstone (average bed thickness 0.16 m)							
	and quartzwacke (average 0.21 m) and minor beds							
	argillite (average thickness 0.03 m)							
1.71								
120.21 - 121.92	Silty argillite with minor siltstone interbeds							
	particularly near base.							
.18								
121.92 - 122.10	Siltstone with argillite top and quartzwacke base.							

SHEET No. _____

HOLE No. YA-4 Page 5

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.12 122.10 - 122.22	Siltstone with argillite top and quartzwacke base.							
1.96 122.22 - 124.18	Interbedded silty argillite (average bed thickness							
	0.19 m) and quartzwacke (average thickness 0.13 m)							
	with minor siltstone.							
1.55 124.18 - 125.73	Interbedded quartzite (average bed thickness 0.70 m)							
	and argillite (average thickness 0.08 m)							
1.55 125.73 - 127.28	Interbedded quartzwacke (average thickness 0.24 m)							
	and silty argillite (average thickness 0.41 m)							
.13 127.28 - 127.41	Siltstone.							
1.70 127.41 - 129.11	Silty argillite -minor pyrite in laminae beds and							
	veinlets.							
.77 129.11 - 129.88	Interbedded silty argillite (average bed thickness							
	0.09 m) and siltstone (average 0.06 m) - single							
	bed of quartzwacke from 129.36 to 129.60 m.							
3.23 129.88 - 133.11	Interbedded quartzite (average bed thickness 0.35 m)							
	and silty argillite (average 0.23 m)							
.58 133.11 - 133.69	Interbedded argillaceous siltstone (average thickness							
	0.03 m) and quartzwacke (average 0.11 m)							
1.12 133.69 - 134.81	Interbedded quartzite (average bed thickness 0.44 m)							
	and argillite (average thickness 0.12 m)							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
134.81 - 139.29 (448)	Interbedded quartzite (average bed thickness 0.56 m)							
	and argillaceous siltstone (average thickness 0.09 m)							
	END							

SHEET No. _____

HOLE No. YA-4 Page 7

NORTH 49°03'15"
WEST 115°57'00"
ELEV. 1122 m
BEARING Vertical
DIP -90°

STARTED Nov 1, 1979
COMPLETED Nov 3, 1979
LENGTH 218.5 m (717')

FALCONBRIDGE
DIAMOND DRILL RECORD

PROPERTY
YAHK

PURPOSE Testing EM-16 anomaly & acquiring geologic data
LOGGED BY J. Wilson

HOLE No. YA 5
CLAIM LARCH
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.
0 - 9.15 m. (9.15)	Overburden			
9.15 - 10.98 (1.83)	Gabbro			
10.98 - 17.38 (6.40)	20 to 90 cm beds of argillaceous siltstone grading down to quartzite minor quartzwacke. Argillite partings and 2 cm bands throughout.			
17.38 - 21.17 (3.78)	Laminated siltstone and argillaceous siltstone 4% pyrite on laminae and veinlets.			
21.17 - 21.23 (.06)	quartzwacke			
21.23 - 24.49 (3.26)	Argillaceous siltstone and argillite layers .70° bedding, <1% pyrite.			
24.49 - 30.32 (5.83)	Beds of quartzwacke to 140 cm, quartzite to 80 cm argillaceous siltstone to 60 cm, and banded siltstone/argillaceous siltstone (1 to 5 cm layers). Patchy pyrite on fractures.			
30.32 - 33.95 (3.63)	Quartzite.			
33.95 - 34.46 (.51)	Silty argillite, argillaceous siltstone, argillite.			
34.46 - 35.68 (1.22)	Argillaceous siltstones grading to quartzwackes & siltstones grading to quartzite as 40 cm beds.			
35.68 - 36.66 (.98)	Silty argillite & argillaceous siltstone to 25 cm. One 10 cm. band of laminated quartzwacke/argillaceous siltstone with some load casts.			

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
3.78 36.66 - 40.44	Quartzites to 75 cm, minor quartzwackes. Some grading from thin siltstone, argillaceous siltstone, or argillites. two 5mm py. bands @ base							
1.37 40.44 - 41.81	Banded argillaceous siltstone/siltstone.							
2.05 41.81 - 43.86	Quartzite, minor quartzwacke & siltstone.							
2.13 43.86 - 45.99	Quartzwackes and argillaceous siltstones as 1 to 10 cm bands at top, 10 to 30 cm bands at base. Minor thin banded silty argillite. Occasional pyrite on fractures and disseminated in thin argillaceous beds.							
2.50 45.99 - 48.49	Quartzwacke & siltstone (10 to 30 cm layers) at top, argillaceous siltstone (to 30 cm) and quartzite (to 100 cm) at base. Occasional pyrite veinlets. Hard albitic? zone near base.							
2.20 48.49 - 50.69	Argillaceous siltstone & siltstone (1 to 10 cm layers) some grading, well laminated in places.							
2.99 50.69 - 53.68	Mostly quartzite (to 80 cm) some graded siltstone tops. One quartzwacke bed (30 cm). Hard albitic? zone near base.							
7.20 53.68 - 60.88	Mostly silty argillite and argillaceous siltstone (one silty argillite is 180 cm thick) (Rare grading; massive and finely laminated). Quartzwackes to 25 cm throughout. 40 cm quartzite at base. Minor pyrite on fractures throughout.							
5.00 60.88 - 65.88	Quartzwackes (5 to 25 cm) layered siltstone/argillaceous siltstone (1 to 3 cm at top; 10 to 30 cm at base). Some grading & load casts, soft sediment deformation. Trace pyrite on fractures. Hard albitic? zone at base.							

SHEET No. _____

HOLE No. YA-5 Page 2

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
17.14								
65.88 - 83.02	15 to 50 cm layers of quartzwackes with graded siltstone tops. Some argillic siltstone tops. Fine laminated siltstone/argillaceous siltstone base.							
	Single 50 cm quartzite bed. Soft sediment deformation scattered throughout. Traces of pyrite on fractures.							
	1 cm quartz, biotite, pyrite vein? @ 90° near center. Several hard albitic? zones throughout.							
3.48								
83.02 - 86.50	Quartzite.							
5.12								
86.50 - 91.62	15 to 50 cm graded quartzite beds (top 2 to 8 cm are siltstone). Minor laminations, cross bedding, and load casts, 85° bedding.							
1.50								
91.62 - 93.12	massive argillaceous siltstone.							
5.21								
93.12 - 98.33	Massive quartzwackes to 1.8 m. Central 1.2 m. is alternating beds of 15 cm quartzwacke and 1 cm crumbly argillite, argillaceous siltstone.							
1.29								
98.33 - 99.61	Quartzite, 1 cm quartz vein @ 55°.							
5.98								
99.61 - 105.59	Graded 15 to 50 cm beds. Quartzwacke base; siltstone, argillaceous siltstone, and argillite tops (2 to 15 cm) are usually laminated, some contorted.							
16.96								
105.59 - 122.55	Mostly massive quartzwacke (top 6 metres blocky chips)							
	Lower 3 metres is 15 to 50cm quartzwacke grading up to thin siltstones, minor argillite, silty argillite.							
	Occasional loadcasts and laminations throughout. Traces of pyrite on fractures.							
1.92								
122.55 - 124.47	Quartzite grading to siltstone in top 8cm. Traces of disseminated silvery specks (hematite?). Minor pyrite veinlets.							
2.56								
124.47 - 127.03	6 to 50 cm quartzite beds with graded tops of laminated siltstone/argillaceous siltstone.							

SHEET No. _____

HOLE No. YA-5 Page 3

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
1.83 127.03 - 128.86	1 to 40 cm quartzwacke beds. Some argillaceous siltstone graded tops - Rarely laminated with siltstone. Some contorted bedding. Traces of pyrite on fractures. Green alteration in top 20 cm.							
2.17 128.86 - 131.03	25 to 50 cm quartzite beds grading up to siltstone/ argillaceous siltstone (some laminated) Minor silty argillite at base.							
14.88 131.03 - 145.91	Quartzwackes (to 2.4 metres) (usually 15 to 50 cm) tops graded to siltstone, silty argillite, argillite. Tops may be laminated &/contorted/loadcasts. Traces of pyrite in lower half on fractures and as layers @ 82° thin quartzwacke bed with several rounded ½ cm clasts.							
21.66 145.91 - 167.57	Siltstone and argillaceous siltstone as massive beds with thin partings (to 3 metres) and finer banded zones- either " varve like" or as 1 to 50 cm alternating bands. Rare argillite and silty argillite laminae. 75° bedding, scattered quartzwacke (20 to 60 cm)throughout, usually with graded tops. Loadcasts regularly throughout. Strong pyrite zones (as 80-85° layer fractures) throughout: 148.4 - 149.5 4% 151.6 - 152.0 3% 152.0 - 155.2 4% 156.8 - 158.9 4% 165.3 - 166.8 4% 163.8 - 165.3 1 cm py vein.							
3.60 167.57 - 171.17	Quartzite beds to 3 m. Graded to siltstone tops. Laminated @ 80° or convoluted tops.							
8.38 171.17 - 179.55	Quartzwackes and quartzites (10 to 50 cm) with graded, often laminated tops of siltstone/argillaceous siltstone. Minor load casts. To 1% pyrite on fractures and layers in lower half.							

SHEET No. _____

HOLE No. YA-5 Page 4

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
12.83 ?? 179.55 - 162.38	Quartzite grading up to siltstone (20 to 150 cm beds)							
192.38 ??	Ocacasional 20 to 80 cm laminated siltstone, argilleous siltstone ± argillite, quartzite. Patchy pyrite to							
	0.5% as veinlets and layers.							
.79 ?? 162.38 - 163.17	Quartzwacke.							
192.38 - 195.17 2.82 ?? 163.17 - 195.99	Bonded argillaceous siltstone, siltstone, argillite.							
(193.17 ??) 1.53 195.99 - 197.52	1% pyrite as laminations, veinlets. Quartzwacke, minor laminated siltstone, argillaceous							
	siltstone, argillite.							
5.24 197.52 - 202.76	Quartzite grading up to siltstone (10 to 30 cm beds)							
	some alternating quartzite/siltstone.							
1.01 202.76 - 203.77	5 to 10 cm graded beds (argillaceous siltstone to							
	siltstone and argillaceous siltstone to quartzite.							
	Argillite partings. Partly laminated. Trace pyrite on fractures.							
1.49 203.77 - 205.26	50 cm quartzwackes, 15 cm siltstone or argillaceous							
	siltstone partly laminated & contorted.							
1.41 205.26 - 206.67	Fine laminated siltstone, argillaceous siltstone.							
	2% pyrite as layers in top half.							
2.74 206.67 - 209.41	Fine laminated argillaceous siltstone.0.5% pyrite on							
	laminae.							
2.75 209.41 - 212.16	Fine laminations and layers of argillaceous siltstone,							
	siltstone some as indistinct laminations.1 to 4% pyrite as 1 mm layers and veinlets.							

SHEET No. _____

HOLE No. YA-5 Page 5

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.50 212.16 - 212.66	Quartzite grading up to siltstone.							
1.21 212.66 - 213.87	2 to 8 cm beds of siltstone to quartzwacke. Some grading.							
	4% pyrite as veinlets and layers to 1 cm thick 72% bedding							
2.56 213.87 - 216.43	Quartzite							
1.34 216.43 - 217.77	60 cm quartzwacke beds, one with graded siltstone							
	8 cm top.							
.73 217.77 - 218.5	Laminated argillaceous siltstone and siltstone. Soft							
	sediment deformation. Minor py. veinlets							
End of hole								
	Abbreviations							
	py. = pyrite							

SHEET No. _____

HOLE No. YA-5 Page 6

NORTH 49°06'00" West
115°58'28"
ELEV. 5100' (1554 m)
BEARING Vertical
DIP -90° BQ core

STARTED Nov 5/79
COMPLETED Nov 6/79
LENGTH 407 ' (124 m.)

FALCONBRIDGE
DIAMOND DRILL RECORD

PROPERTY
YAHK
Casing left in hole

PURPOSE Testing EM-16 anomaly and gather geologic data
LOGGED BY J. Wilson

HOLE No. YA 6
CLAIM YAHK
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
6.6m 0 -6.6 m	Casing							
1.15 6.6 - 7.75	Quartzwacke, blocky at top							
2.31 7.75 - 10.06	Streaky, almost laminated argillaceous siltstone overlying siltstone with rare argillaceous siltstone, quartzite laminae. Trace pyrite on fractures.							
3.76 10.06 - 13.82	Quartzite, some siltstone grading to quartzite beds to 20 cm thick. Patchy purplish tinge. Trace pyrite on fracture. Blocky at 11-12 m							
2.83 13.82 - 16.65	Argillaceous siltstone and siltstone, paralled bands 3 mm to 20 cm thick at top. Indistinct streaks of light & dark grey argillaceous siltstone at base. Trace pyrite on fractures.							
.89 16.65 - 17.54	Siltstone and blocky quartzite. Trace pyrite in veinlets							
5.49 17.54 - 23.03	Argillaceous siltstone to 20 cm, quartzite to 2 metres, usually 15 cm. Lower 90 cm is chloritic argillaceous siltstone.							
.91 23.03 - 23.94	Quartzite. Top 60 cm is blocky; Fe stained cement/ gouge ? and albite in top 2 cm. Base is light green (chloritic ?)							
4.12 23.94 - 28.06	Soft chloritic rock, medium green, minor 1cm quartz veining, Massive pyrrhotite and pyrite, trace chalcopyrite, sphalerite? as distorted ? fragments ? veins ?, layers / 3 mm to 25 cm wide. (15% total sulphides)							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.72 28.06 - 28.78	Blocky, soft, medium green chloritic rock with Fe stained crumbly zone.							
3.85 28.78 - 32.63	Blocky quartzite. Patchy purplish tinge. Irregular massive pyrrhotite/pyrite zone at 30.2 to 30.5 m.							
1.99 32.63 - 34.62	Alternating argillaceous siltstone with indistinct parallel laminations and quartzite (to 6 cm)							
1.92 34.62 - 36.54	Chloritic argillaceous siltstone, quartzwacke as parallel bands, lenses. 1cm quartz vein.							
4.85 36.54 - 41.39	Alternating quartzite & argillaceous siltstone. One 5 cm graded bed. Minor silty argillite laminae. Trace pyrite on fractures.							
1.92 41.39 - 43.31	Blocky argillaceous siltstone with quartz veining. Indistinct parallel 5 mm layers.							
3.20 43.31 - 46.51	Alternating quartzite & argillaceous siltstone to 60 cm. usually 8 cm. Indistinct, parallel, 3 to 20 mm. darker bands in places. Purplish tinge on some quartzites, trace pyrite on fractures.							
3.23 46.51 - 49.74	Alternating siltstone & argillaceous siltstone beds to 30 cm. Minor zones of parallel, 1 to 10 cm. indistinct and clear bands 75° bedding minor silty argillite. Quartzwacke : 47.9 - 48.9m. Trace pyrite on some fractures.							
1.41 49.74 - 51.15	Alternating quartzite & quartzwacke to 20 cm. Minor indistinct 2 cm. argillaceous siltstone/siltstone.							

SHEET No. _____

HOLE No. YA-6 Page 2

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
2.74 51.15 - 53.89	Argillaceous siltstones and quartzites to 30 cm., usually 15 cm. Purplish patches in quartzite. Indistinct "ghost-like" banding in some argillaceous beds.							
1.62 53.89 - 55.51	Quartzites and quartzwackes to 40 cm, usually 25 cm. purplish patches.							
1.43 55.51 - 56.94	Argillaceous siltstones and quartzites with purplish patches to 40 cm, usually 15 cm. Trace pyrite on fractures and laminations at base.							
2.53 56.94 - 59.47	Argillaceous siltstones and quartzwackes to 45 cm. usually 20 cm. Trace pyrite on fractures.							
.61 59.47 - 60.08	Quartzite. Purplish patch at top.							
1.92 60.08 - 62.0	Argillaceous siltstone/siltstone - nearly quartzwacke Purplish zone in center 30 cm. Trace pyrite on fractures.							
6.44 62.0 - 68.44	Argillaceous siltstones to 120 cm., usually 12 cm, indistinct banding. Quartzites to 90 cm., usually 20 cm, purplish patches. Some distinct parallel bands at 78°. Traces of pyrite on fractures.							
2.23 68.44 - 70.67	Quartzites, argillaceous siltstones, & siltstones to 30 cm. Rare, indistinct parallel and sub parallel laminations. Trace pyrite on fractures.							
7.56 70.67 - 78.23	Argillaceous siltstones to 15 cm. & quartzwackes to 90 cm. (quartzwacke: 76.46 - 77.99 m). Purplish patches in the quartzwackes. Occasional indistinct and distinct bands of darker grey argillaceous siltstone to 2 cm, usually parallel, some wedging. Trace pyrite on fractures at base.							

SHEET No. _____

HOLE No. YA-6 Page 3

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
1.13 78.23 - 79.36	Alternating quartzite to 20 cm and siltstone to 5 cm. Trace pyrite on occasional fractures.							
3.63 79.36 - 82.99	Quartzwackes, often purplish, to 30 cm, usually 20 cm (except 80.24 to 81.19, purplish quartzwacke) interlayered with argillaceous siltstones (some dirty and gritty) to 25 cm. usually 10 cm. Trace pyrite on fractures.							
2.17 82.99 - 85.16	Alternating buff and grey quartzite to 30 cm, usually 8 cm. Minor purplish quartzwacke. Grey rounded clasts (?), trace pyrite on fractures & 3 mm. horizontal pyrite vein/layer at lower contact of buff quartzite: 84.33 - 84.70 m.							
1.61 85.16 - 86.77	Alternating quartzites and quartzwackes. Grey to purplish. To 30 cm. usually 10 cm.							
.31 86.77 - 87.08	Argillaceous siltstone nearly quartzwacke. Altered Altered albite? silica? with pink grains and traces disseminated pyrite: 86.83 - 86.95 m.							
.15 87.08 - 87.23	Buff quartzites and siltstones to 4 cm.							
1.52 87.23 - 88.75	Purplish quartzwackes and siltstone/argillaceous siltstone bands (usually 10 cm wide).							
6.10 88.75 - 94.85	Quartzwackes to 60 cm usualy 18 cm. Argillaceous siltstones to 60 cm. usually 24 cm. Purplish patches throughout . Minor pyrite on fractures. single 1 cm pyrite vein @ 40°. (1 to 5 cm. distinct bands of argillaceous siltstone, quartzwacke - mostly parallel, some wedges, one loadcast, trace pyrite on fractures: 91.99 to 94.24 m.)							

SHEET No. _____

HOLE No. YA-6 Page 4

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
1.77 94.85 - 96.62	Laminated, indistinct, 1 to 3 cm argillaceous siltstones, siltstone, quartzites.							
4.18 96.62 - 100.8	Argillaceous siltstones to 45 cm usually 5 cm, rare beds of 1 cm Indistinct laminae. Quartzwackes to 60 cm, usually 7 cm.							
.52 100.8 - 101.32	1 to 5 cm bands of quartzite, quartzwacke, argillaceous siltstone.							
3.08 101.32 - 104.4	Quartzwackes to 30 cm, usually 10 cm, siltstones to 20 cm, usualy 10 cm. Buff siltstone near top. Patches of 1 to 2 cm banding usually parallel, some wedging (especially 102.6-103.6). Purplish quartzwacke in places. Rare quartzite.							
1.44 104.4 - 105.84	Siltstones (7 cm) and quartzwackes/gritty argillaceous siltstones (2 to 20 cm).							
9.90 105.84 - 115.74	Quartzwackes to 40 cm, usually 18 cm, argillaceous siltstones to 80 cm, usually 10 cm. Rare, indistinctly banded parallel argillaceous siltstone sections (1 to 2 cm laminae). Minor siltstone to 2 cm. Purplish tinged quartzwackes common. Very rare pyrite on fractures.							
.76 115.74 - 116.5	Quartzite, some purplish patches.							
5.35 116.5 - 121.85	Quartzwackes to 88 cm usually 12 cm, argillaceous siltstones to 36 cm usually 6 cm. Quartzwackes usually purplish. Argillaceous beds rarely have 1 to 5 cm parallel laminae. Minor siltstone (Purplish quartzwacke: 119.38 - 120.26 m.)							
2.25 121.85 - 124.1	Black, recrystallized biotite? zone with pink grains and minor 5 cm argillaceous siltstone & quartzwacke bands, one of which contains a rounded siltstone fragment (?).							
End of hole								

FALCONBRIDGE
DIAMOND DRILL RECORD

NORTH 49° 6' 30"
West 115° 58' 25"
ELEV. 1646 m.
BEARING West
DIP - 75°

STARTED Nov 7/79
COMPLETED Nov 8/79
LENGTH 90.5 m
BQ core

PROPERTY
YAHK

PURPOSE To test proton mag anomaly.
LOGGED BY L.A.Tihor

HOLE No. YA-7
CLAIM Yahk
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
9.14 0 - 9.14 m.	Overburden - casing removed after drilling completed.							
3.66 9.14 - 12.80	Mainly grey quartzite beds 0.46 to 1.07 m thick with dark grey interbeds up to 0.27 m thick.							
3.45 12.80 - 16.25	Silty grey argillite, typically lensoid bedded - micro-crossbedding common - rare dark parallel laminae - minor interbeds quartzwacke -trace pyrite.							
.18 16.25 - 16.43	Quartzite.							
1.19 16.43 - 17.62	Argillaceous siltstone with narrow argillite interbeds.							
2.68 17.62 - 20.30	Grey silty argillite with some siltstone interbeds - trace pyrite.							
6.83 20.30 - 27.13	Quartzite beds up to 0.76 m thick with argillite interbeds up to 0.24 m thick							
6.06 27.13 - 33.19	Irregularly interbedded argillite, siltstone and quartzite in that order of abundance - beds generally less than 0.18 m thick - trace pyrite.							
26.86 33.19 - 60.05	Irregularly interbedded quartzwacke, siltstone, argillite. Bedding is generally lensoid, discontinuous - crossbedding common; occassional, but rare parallel lamenar bedding - subtle purple and green colour casts alternating - load casts absent - common creamy-white interbeds (carbonate ?) - common bleaching							

FNMISTMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
	along fine fractures.							
	Note. These features are typical of this hole from about 27 m on down.							
25.29 60.05 - 85.34	Dark green, coarse-grained gabbro.							
5.19 85.34 - 90.53	Irregularly interbedded quartzwacke, siltstone, argillite - broken-up and rusty within 4 m of gabbro.							
	END.							

SHEET No. _____

HOLE No. YA-7 Page 2

FALCONBRIDGE
DIAMOND DRILL RECORD

NORTH 49° 05' 35"
West 115° 58' 15"
ELEV. 1433 m.
BEARING Vertical
DIP - 90°

STARTED Nov 9/79
COMPLETED Nov 10/79
LENGTH 100.3 m.
BQ core

PROPERTY YAHK

PURPOSE To test EM-16 anomaly
LOGGED BY L. A. Tihor

HOLE No. YA-8
CLAIM Yahk
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
39.62 0 - 39.62 m.	Overburden - casing removed after completion of hole.							
1.59 39.62 - 41.21	Parallel laminated silty argillite; > 5% pyrite sub-parallel to bedding with minor cross-cutting veinlets- up to 12% pyrite over 0.15 m .							
3.14 41.21 - 44.35	Mainly quartzwacke in beds up to 0.4 m thick separated by frequent thin beds argillite - minor fracture-filling pyrite.							
1.16 44.35 - 45.51	Silty argillite with lesser amounts interbedded quartzwacke - trace pyrite.							
1.64 45.51 - 47.15	Siltstone with lesser amounts argillite - tiny veinlets pyrite concentrated in harder silty beds, perhaps the basal portion of crudely graded argillite - siltstone beds.							
3.29 47.15 - 50.44	Parallel-bedded argillite with minor siltstone - pyrite veinlets concentrated in harder, siltstone portions.							
1.13 50.44 - 51.57	Quartzite with minor argillite interbeds.							
2.53 51.57 - 54.10	Silty argillite with minor quartzwacke interbeds.							
3.45 54.10 - 57.55	Quartzitic beds with minor argillite interbeds.							
2.59 57.55 - 60.14	Massive quartzite (marker horizon ?).							
3.78 60.14 - 63.92	Interbedded thin beds quartzwacke and argillite.							

FNM IS TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
	both averaging 0.24 m thick - @ 61.87 first appearance of pronounced, persistant flasar bedding in argillite							
.97 63.92 - 64.89	First appearance of varved-looking rock - parallel bedding, creamy white and dark grey fine grained siliceous alternating - may be in part cherty.							
1.28 64.89 - 66.17	Mainly argillite with interbedded siltstone becoming more sileceous near base and taking on a more varved appearance near base.							
.58 66.17 - 66.75	Quartzite.							
1.22 66.75 - 67.97	Repeated beds of silty argillite averaging 0.2 m thick with siltstone bases.							
.15 67.97 - 68.12	"Varved" siliceous fine-grained rock.							
.16 68.12 - 68.28	Quartzwacke.							
14.63 68.28 - 82.91	Irregularly interbedded argillite, siltstone, quartzwacke and quartzite - beds vary greatly in thickness. Generally argillite is dominant at top of section and quartzite at bottom - where bedding is apparent it is lensoid and highly variable in dip.							
5.18 82.91 - 88.09	Mainly argillite with minor siliceous portions, particularly near bottom - bedding is rarely parallel.							
12.19 88.09 - 100.28	Fine-grained quartzwacke and quartzite with minor argillite near top. The rock is much harder than it looks.							
	END							

FALCONBRIDGE
DIAMOND DRILL RECORD

NORTH 49° 04' 10"
West 115° 57' 30"
ELEV. 1128 m
BEARING Vertical
DIP - 90°

STARTED Nov 12/79
COMPLETED Nov 14/79
LENGTH 92.0 m
BQ core

PROPERTY
YAHK

PURPOSE For geological information

LOGGED BY L. A. Tihor

HOLE No. YA - 9
CLAIM Larch
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.
39.62 0 -39.62 m	Overburden - casing removed after completion of drilling.			Bedding dips 45°.
.70 39.62 - 40.32	Quartzwacke.			
1.04 40.32 - 41.36	Silty argillite.			
.15 41.36 - 41.51	Quartzwacke.			
.31 41.51 - 41.82	Silty argillite			
.09 41.82 - 41.91	Siltstone.			
.61 41.91 - 42.52	Thinly bedded argillite.			
.24 42,52 - 42.76	Siltstone.			
.22 42.76 - 42.98	Argillite.			
.15 42.98 - 43.13	Argillaceous siltstone.			
1.01 43.13 - 44.14	Silty argillite.			
2.34 44.14 - 46.48	Quartzwacke - from 44.65 to 45.54 narrow, vertical rusty quartz vein with minor pyrite.			
.15 46.48 - 46,63	Silty argillite.			
.64 46.63 - 47.27	Quartzwacke.			
.10 47.27 - 47.37	Argillite.			

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
47.37 - 47.46 (.09)	Quartzwacke.							
47.46 - 47.52 (.06)	Argillite.							
47.52 - 47.82 (.30)	Quartzwacke.							
47.82 - 48.00 (.18)	Argillaceous siltstone.							
48.00 - 48.16 (.16)	Quartzwacke.							
48.16 - 48.31 (.15)	Argillite.							
48.31 - 48.46 (.15)	Quartzwacke.							
48.46 - 48.62 (.16)	Argillite.							
48.62 - 49.13 (.51)	Quartzwacke.							
49.13 - 49.35 (.22)	Argillite.		@ about 49 m apparent beginning of shallow water sediments - discontinuous, lensoid bedding; cross-bedding fairly common; some discontinuous thin lenses of white material (probably carbonate).					
49.35 - 49.65 (.30)	Quartzwacke.							
49.65 - 51.36 (1.71)	Argillite.							
51.36 - 52.18 (.82)	Quartzwacke.							
52.18 - 52.36 (.18)	Argillite.							
52.36 - 52.58 (.22)	Quartzwacke.							
52.58 - 52.82 (.24)	Silty argillite with siltstone lenses.							
52.82 - 53.74 (.92)	Interbedded quartzwacke and argillite - average bed thickness 0.23 m							
53.73 - 54.60 (.87)	Argillite.							
54.60 - 55.47 (.87)	Interbedded quartzite and argillite - average bed thickness 0.17 m.							

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
55.47 (2.47) - 57.94	Argillite.							
57.94 (3.05) - 60.99	Interbedded quartzite and argillite with silty sections - average bed thickness 0.27 m.							
60.99 (1.16) - 62.15	Quartzwacke.							
62.15 (.09) - 62.24	Argillite.							
62.24 (.15) - 62.39	Quartzwacke.							
62.39 (.80) - 63.19	Argillite.		Reverse graded beds are quite common throughout this part of hole.					
63.19 (1.12) - 64.31	Interbedded argillite and quartzwacke - average bed thickness 0.24 m.							
64.31 (1.31) - 65.62	Argillite with siltstone lenses.							
65.62 (1.31) - 66.93	Quartzwacke.							
66.93 (1.50) - 68.43	Thin bedded argillite.							
68.43 (2.59) - 71.02	Interbedded quartzwacke and argillite with silty sections - average bed thickness 0.15 m.							
71.02 (1.22) - 72.24	Argillite.							
72.24 (.82) - 73.06	Interbedded quartzwacke, argillite, siltstone - average bed thickness 0.16 m.							
73.06 (1.04) - 74.10	Argillite with minor siltstone lenses.							
74.10 (.24) - 74.34	Quartzwacke.							
74.34 (.03) - 74.37	Argillite.							

SHEET No. _____

HOLE No. YA-9 Page 3

FNM 15 TMP

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
.09 74.37 - 74.46	Quartzwacke.							
.76 74.46 - 75.22	Argillite with siltstone lenses.							
.77 75.22 - 75.99	Quartzwacke.							
1.12 75.99 - 77.11	Interbedded argillite and quartzwacke with silty sections - average bed thickness 0.19 m.							
.61 77.11 - 77.72	Quartzwacke.							
.34 77.72 - 78.06	Interbedded argillite, quartzwacke, siltstone - average bed thickness 0.05 m.							
.27 78.06 - 78.33	Quartzwacke.							
1.44 78.33 - 79.77	Interbedded quartzwacke and argillite with silty sections - average bed thickness 0.12 m.							
4.02 79.77 - 83.79	Interbedded quartzwacke (average bed thickness 0.13 m) and argillite (average bed thickness 0.55 m) with minor siltstone.							
1.68 83.79 - 85.47	Quartzwacke.							
3.96 85.47 - 89.43	Interbedded quartzwacke, argillite, siltstone - average bed thickness 0.17 m.							
1.07 89.43 - 90.50	Interbedded argillite and siltstone - average bed thickness 0.21 m.							
.09 90.50 - 90.59	Quartzwacke.							
1.46 90.59 - 92.05	Many lensoid interbeds of argillite and siltstone.							
	END.							

SHEET No. _____

HOLE No. YA-9 Page 4