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2110
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA

Robertson
Research

Enclosure 27

CORE DESCRIPTION CHART

WELL

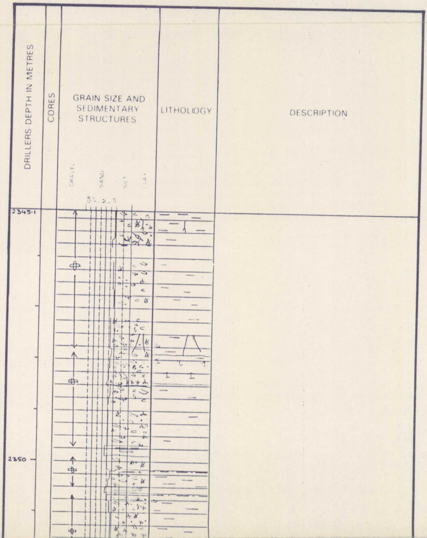
HIBERNIA K-14

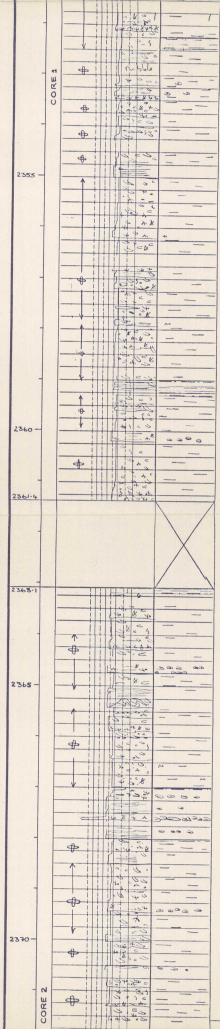
JEANNE D'ARC BASIN, EAST COAST CANADA

SCALE 1 : 50

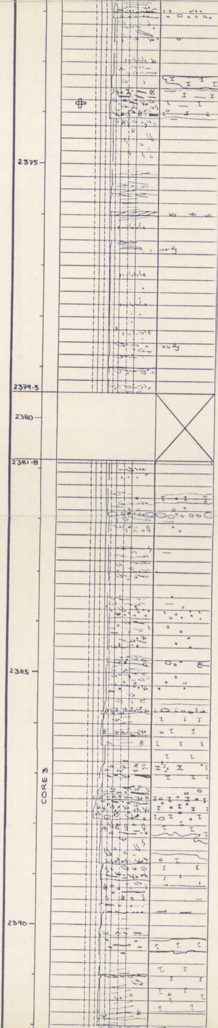
Author: C. WYNN

Department of Supply
and Services

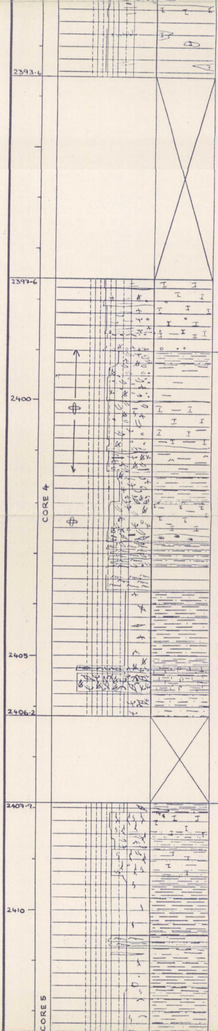

DRILLERS DEPTH IN METRES
CORES
GRAIN SIZE AND SEDIMENTARY STRUCTURES
LITHOLOGY
DESCRIPTION
GRAVEL
SAND
SILT
CLAY
2345.1
2350


CORE 1
2355
2360
2361·4
2363·1
2365
2370
CORE 2

SANDSTONE: Moderate yellowish brown (oil-stained) and medium grey, predominantly bioturbated and argillaceous, very fine and fine grained, locally horizontally laminated with sharp bases, containing concentrations of mudclasts, carbonaceous wood fragments and concentrations of bivalve, gastropod and indeterminate shell fossils; interbedded with
SHALE: Very thin, dark grey, silty.


2375
2379.5
2380
2381.8
2385
2390
CORE 3

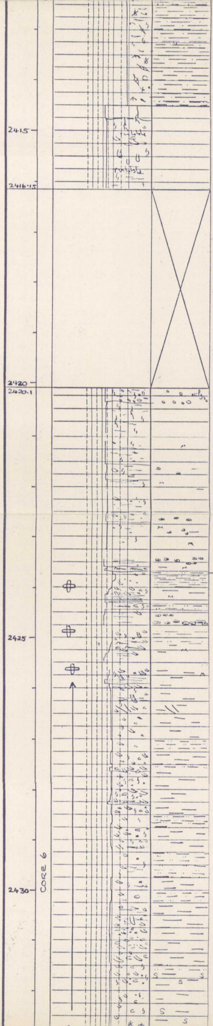
SANDSTONE: Dark yellowish brown (oil-stained) and pale grey (calcite cemented), fine to coarse grained, locally argillaceous and burrowed, containing cross-bedding, erosive bases and concentrations of mudclasts, quartzose and sandstone pebbles, carbonaceous wood fragments and bivalve and indeterminate shell fossils. Common concretionary calcite cements.


2393.6
2397.6
2400
CORE 4
2405
2406.2
2407.9
2410
CORE 5

SANDSTONE: Pale yellowish brown (oil-stained) and pale grey (calcite cemented), very fine to fine grained, argillaceous and bioturbated locally current rippled, containing mudclasts, carbonaceous wood fragments, bivalve, gastropod and indeterminate fossil debris; interbedded with

LIMESTONE: Medium grey, argillaceous, sandy, bioclastic packstone containing gastropod, bivalve and indeterminate shell fossils, interbedded with

SHALE: Medium dark grey to greyish brown, slightly silty, containing gastropod and bivalve shell fossils.

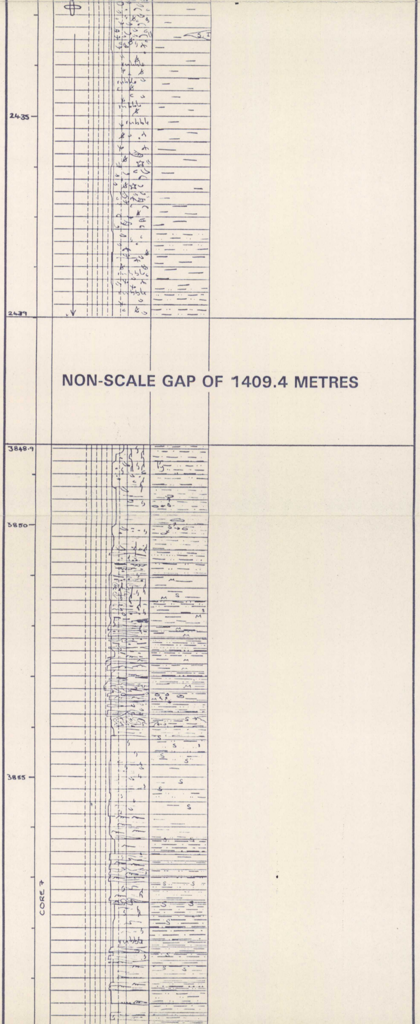

2415
2416.15
2420
2420.1
2425
2430
CORE 6

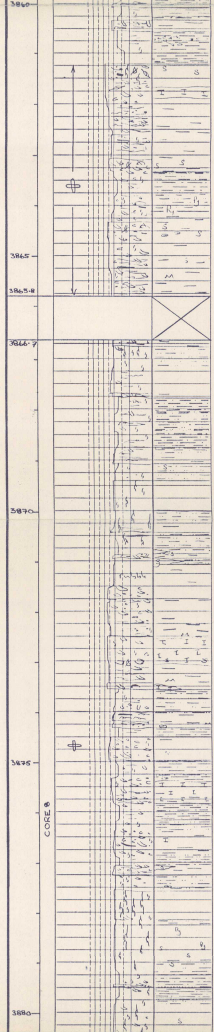
SHALE: Dark reddish brown to greyish green and brownish grey, slightly silty, mottled and rootleted, containing thin shelled bivalve and turreted gastropod shell fossils; interbedded with

SILTSTONE: Pale greenish grey, argillaceous, rootleted and calcite cemented, interbedded with

SANDSTONE: Greyish green and buff to yellowish brown (oil-stained), fine grained, rootleted, mottled and current rippled, containing vertical burrows, pebbles, and intraformational mudclasts.

SILTSTONE & SANDSTONE: Yellowish brown to medium grey, silt to fine grained, predominantly argillaceous and bioturbated, containing bivalve. ?echinoderm, and indeterminate shell fossils, occasional horizontal lamination and current ripples. Local nodular and disseminated siderite cements.

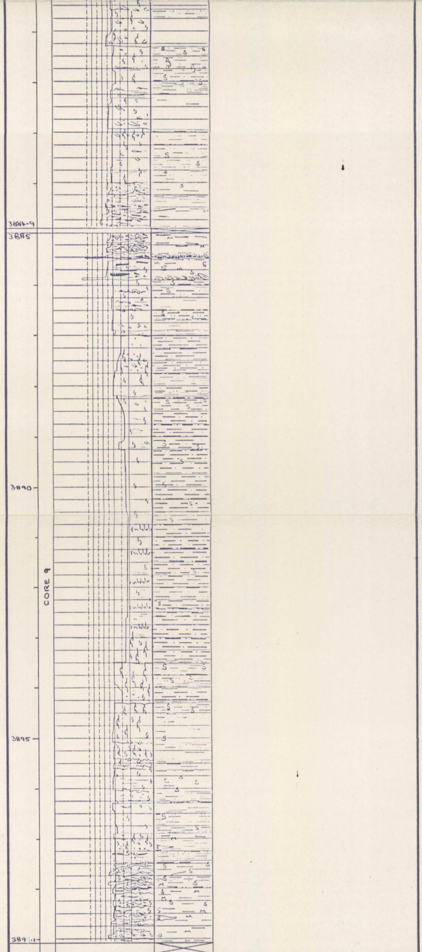

2435
2439
NON-SCALE GAP OF 1409.4 METRES
3848.9
3850
3855
CORE 7

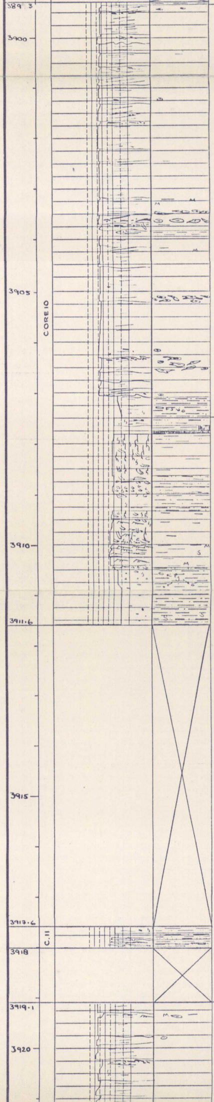

3860
3865
3865.8
3866.7
3870
3875
3880
CORE 8

SANDSTONE: Pale grey to brownish grey, very fine to medium grained, often argillaceous, bioturbated, rootleted, containing gastropod and bivalve shells, locally sharply based, laminated, current rippled and slumped, containing intraformational mudclasts, siderite and pyrite cements; interbedded with

SILTSTONE: Pale - dark grey and greenish grey, argillaceous, rootleted, burrowed and mottled, containing sphaerosiderite and pyrite cements; interbedded with

SHALE/MUDSTONE: Medium dark grey to greyish green, variably silty, rootleted, with local sphaerosiderite and pyrite cements.


3884.9
3885
3890
CORE 9
3895
3899.1


389
3900
3905
CORE 10
3910
3911.6
3915
3917.6
C.11
3918
3919.1
3920

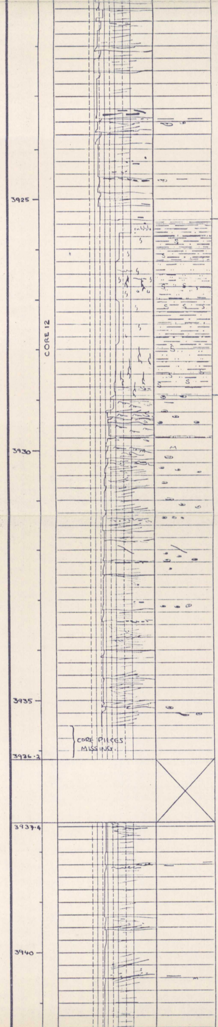
SANDSTONE: Moderate yellowish brown (oil-stained), fine to medium-coarse grained, containing erosive bases, cross-bedding, horizontal lamination and concentrations of carbonaceous wood fragments and intraformational mudclasts.

SANDSTONE: Buff and pale to medium grey, argillaceous, very fine grained, current rippled, rootleted and burrowed; interbedded with

SILTSTONE: Pale to medium grey, argillaceous, mottled and rootleted; interbedded with;

SHALE/MUDSTONE: Pale to medium grey, burrowed, laminated and carbonaceous, containing sphaerosiderite and nodular pyrite; interbedded with

COAL: Black.

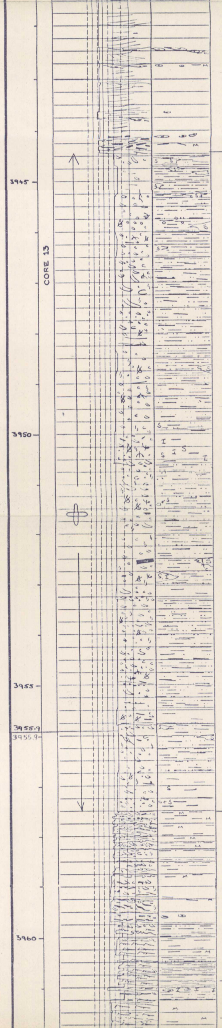

3925
3930
3935
3936·2
3937·4
3940
CORE 12
CORE PIECES MISSING.

SANDSTONE: Moderate to dark yellowish brown (oil-stained), fine to coarse grained, containing erosive bases, cross-bedding and concentrations of carbonaceous wood debris and intraformational mudclasts.

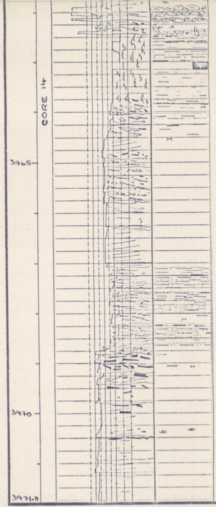
SHALE/MUDSTONE: Pale grey and greyish green, variably silty, containing sphaerosiderite; interbedded with

SILTSTONE: Pale grey and greyish green, argillaceous, mottled and rootleted, containing sphaerosiderite.

SANDSTONE: Dark yellowish brown (oil-stained), very fine to coarse grained, containing erosive, scoured bases, cross-bedding, horizontal lamination, current ripples and local concentrations of carbonaceous wood debris and intraformational mudclasts.


3945
CORE 13
3950
3955
3955.9
3955.8
3960

SANDSTONE & SILTSTONE: Medium to dark grey, argillaceous and bioturbated, silt to very fine grained, containing bivalve and indeterminate fossil debris, carbonaceous wood fragments, quartzose pebbles and nodular calcite, siderite and pyrite cements.


CORE 14
3965
3970
3971.8

SANDSTONE: Buff to pale grey, very fine to very coarse grained, current rippled, cross-bedded and slumped, containing intraformational mudclasts and carbonaceous wood debris; interbedded with

SILTSTONE & SHALE: Medium dark grey, rootleted; interbedded with;

COAL: Black.

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