

EAGLE PLAINS #1

66° 48' 54" N / 138° 08' 30" W

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STAFF USE ONLY

REPORT ON FOSSIL DETERMINATIONS
BY
DR. C. R. STELCK

CONFIDENTIAL
WESTERN OIL & GAS LTD.

CORE NO. 1 2101-2122

Date. Mar. 26, 1959

Typical Loom River type of Lower Cretaceous shale with
conifer fragments and pyritized wood fragments.

CORE NO. 2 3611-3650

- Box 1: Dark Limestone
- Disphyllum cf. disjunctum
- Martinia cf. richardsoni
- Amphipora sp.
- Actinostroma

Middle Devonian about base of Stringocephalus zone.

CORE NO. 2

- Box 2 - Age: Middle Devonian
- Disphyllum disjunctum
- Actinostroma sp.
- Algae

CORE NO. 2

Box 3 - Age: Middle Devonian about the base of
Stringocephalus zone.

- Disphyllum disjunctum
- Actinostroma
- Martinia richardsoni
- Prismatophyllum sp.
- Martinia sublineata
- Hypothyridina cameroni

CORE NO. 2

Box 4 - Late Middle Devonian
Disphyllum disjunctum.

CORE NO. 3 3659-3679

Box 1 -
Chonetes?

CORE NO. 3

Box 2: Middle Devonian about Pine Point horizon.
Stromatoporeid
Amphipora
Favosites cf. alpensta

CORE NO. 3

Box 3
Stromatopora sp.

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CONS NO. 1 2101-2122

Date. *March 26, 1959*

Typical local River type of Lower Cretaceous shale with
conifer fragments and pyritized wood fragments.

CONS NO. 2 2612-2650

Fig. 1. Dark lignite
Fossiliferous of *Stenoceras*
Stenoceras sp.
Stenoceras sp.
Stenoceras sp.

Middle Devonian about base of *Stenoceras* zone.

CONS NO. 3

Fig. 2. *Stenoceras*
Stenoceras sp.
Stenoceras sp.
Stenoceras sp.

CONS NO. 4

Fig. 3. *Stenoceras* about the base of
Stenoceras zone

Stenoceras sp.
Stenoceras sp.
Stenoceras sp.
Stenoceras sp.

Stenoceras sp.
Stenoceras sp.

Stenoceras sp.

Box 1: Actinostroma sp.
CORE NO. 4 1920-1940

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Date: March 29, 1959

Box 2: Actinostroma sp.
CORE NO. 4

Box 3: Actinostroma sp.
CORE NO. 4

Box 4: Stromatoporoidea
Alano
Leptotheca sp. albensis
Brachyllum sp.

The suites from Core #4 sent in before also contain Leptotheca sublineata to the whole of Core #4 in the Department of Iowa State Geol. Surv. Iowa Indian State Geol. Surv.

09.10.59

Box 5: Actinostroma sp.
CORE NO. 4 1920-1940

Box 6: Actinostroma sp.
CORE NO. 4 1920-1940

Box 7: Actinostroma sp.
CORE NO. 4 1920-1940

Box 8: Actinostroma sp.
CORE NO. 4 1920-1940

Box 9: Actinostroma sp.
CORE NO. 4 1920-1940

Box 10: Actinostroma sp.
CORE NO. 4 1920-1940

Box 11: Actinostroma sp.
CORE NO. 4 1920-1940

Box 12: Actinostroma sp.
CORE NO. 4 1920-1940

Box 13: Actinostroma sp.
CORE NO. 4 1920-1940

Box 14: Actinostroma sp.
CORE NO. 4 1920-1940

Box 15: Actinostroma sp.
CORE NO. 4 1920-1940

Box 16: Actinostroma sp.
CORE NO. 4 1920-1940

... marble. This ...
... at the top of ...
... Silurian ...
... marble to ...

CORE NO. 11 7048-7051

Box 1:
Fossiliferous ...

WISCONSIN ...

Date: *March 26 1957*

CORE NO. 12 7052-7059

Box 1, 2, 3, 4, 5 and 6:
Mass black limestone, argillaceous.

CORE NO. 13

Box 1:
Fossiliferous ...

CORE NO. 14 7060-7067

Box 1, 2, 3, 4 and 5:
Black dolomite limestone, ... with ...
colorless.

CORE NO. 15 7068-7075

Box 1, 2, 3, 4 and 5:

CORE NO. 16

Box 1:
Dolomite ...
Fossiliferous ...
... limestone

CORE NO. 17

Box 1:
Dolomite ...

Box 2:
Dolomite ...

Box 3:
Dolomite ...

Box 6:
Stromatolites

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CORE NO. 14

Date: Feb 26, 1958

Box 7:
Favosites cf. prolifera
Cyrtophylax cf. densa

CORE NO. 14

Box 8:
Cyrtophylax cf. densa

Fossils determined from core fragments of Core #14:
Crinoid Plates
Leperdetia sp.
Bumastus sp. indet.
Protokionoceras ?
Gastropod indet.

CORE NO. 15 7678-7688

Box 1:
Sheared graptolitic shales
Graptolite indet.

The bedding throughout the core never exceeded 12° in dip, although the shearing and stylolization gave an apparent distortion above this at times. Veining development suggested tension in the lower part of the well from Core #8 down. Marble development and slickensided shale suggest a pre-Middle Devonian regional deformation. This is found to be so in outcrops along the Peel River further south.

I would say that the succession so far is without repetition or faulting and missing sections in the well were by non-deposition and erosion only. From the nature of the shearing below Core 14, it is suggested that you are approaching below Core 15 the top of the extensive (10,000' ±) section of graptolite shales that is present in the Barn Mountains and Pringle's River to the north and also present in the canyon of the Peel to the south. There are very few reservoir rocks known to exist in this sequence.

There is one hard body of limestone present in the graptolite shales sequence of importance, i.e. the limestone that makes the chimney of the lower canyon of the Peel River at the contact approximately 1/2 mile north of the Silurian.

CORE NO. 16 7696-7706

Box 1:
Dalmanella aff. mulari

L. Mulari ?

CORE NO. 16

Box 2:
Dalmanella sp. indet.

CORE NO. 17 7874-7906

Box 1:
"Actinoceras" sp.
Algae

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Date March 26, 1954

CORE NO. 17

Box 2:
Stromatoporoid

CORE NO. 17

Box 3:
Stromatoporoid
Crimoidal fragments
Streptelasma n.l.

CORE NO. 17

Box 4:
Streptelasma sp.
Catenipora cf. feildeni

CORE NO. 17

Box 5:
Kochoceras sp. aff. cuneiforme
Catenipora n.sp. (Stony Mountain formation) *Upr. anal.*

CORE NO. 17

Box 6:
Favosites sp. indet.
Siphonule cf. "Actinoceras"

CORE NO. 17

Box 7:
Siphonule cf. patella.

All of the forms from Core 17 are definitely in the Upper Ordovician Stony Mountain limestone and it indicates that the sequence is still in lateral order. Some of the fossils show bedding-plane movement in shale. Joints with calcification values are thought to represent decrease of bulk by recrystallization. The calcification values in the shale and siltstone are similar. The calcification values in the shale and siltstone are similar. The calcification values in the shale and siltstone are similar.

repetition indicated at all. The appearance of this line band in the spectrum
taken corresponds with the thin line bands listed at this position on the RSD plates
in the L. Canyon.

CORE NO. 18 9079-9102

See Page 660.

CORE NO. 19 9327-9343

See Page 660.

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Date... *MAR 26 1959*

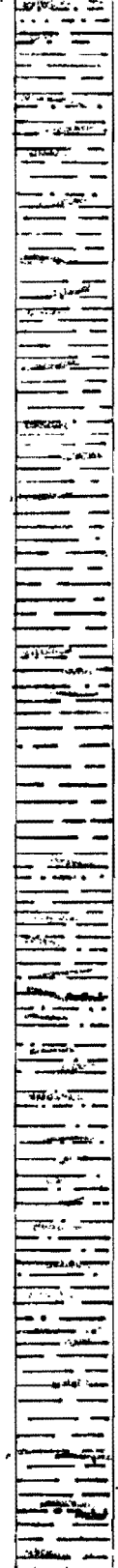
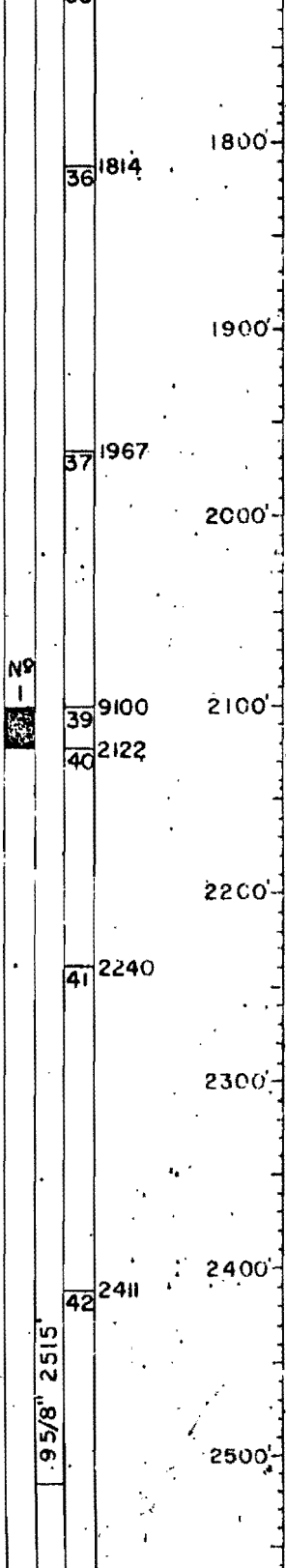
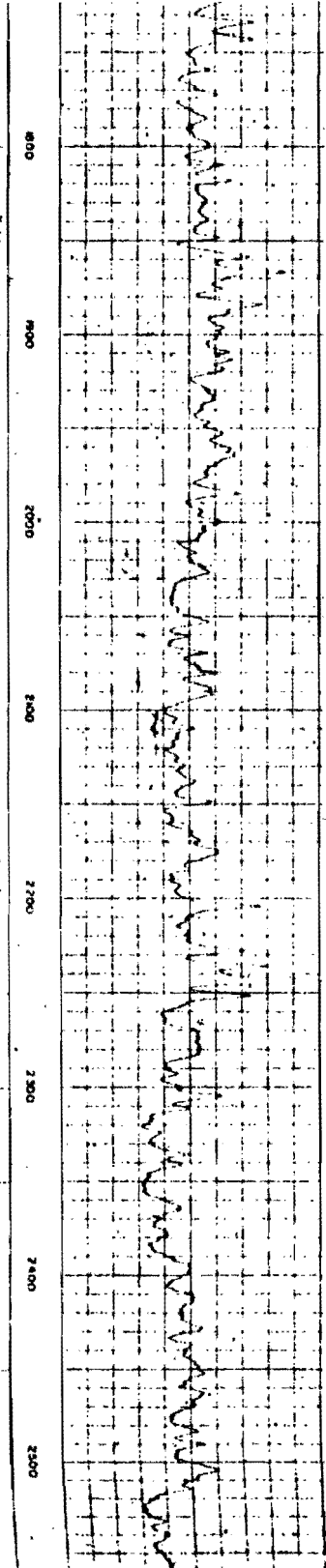
WELL NAME	OWNER	YR CORE	TOP	BOTTOM	LOCATION	TYPE
EAGLE PLAINS NO. 1	PEEL ETAL	58	3611	3635	C-30261	MICRO
			3635	3655	C-30261	
			3655	3678	C-30261	

WELL NAME	OWNER	YR	CORE	TOP	BOTTOM	LOCATION	TYPE
EAGLE PLAINS YT NO. 1	PEEL PLAT	58	16	7069	7074	C-13463	CONOD
			16	7074	7079	C-13464	
			16	7089	7094	C-13465	
			16	7094	7097	C-13466	
			17	7337	7342	C-13467	
			17	7342	7347	C-13468	
			17	7372	7377	C-13469	
			20	7874	7879	C-13470	

WELL NAME	OWNER	YR CORE	TOP	BOTTOM	LOCATION	TYPE
EAGLE PLAINS YT NO. 1 PEEL PLAT 58 3		16	3668		C-1499	MACRO
			5596		C-18049	
			7061		C-18050	
			7368		C-18051	
			7696		C-18053	
			7888		C-18054	
			7890		C-18055	
			7891		C-18056	
			7893		C-18956A	
			7895		C-18957	
			7897		C-18058	
			7898		C-18059	

WELL NAME	OWNER	YR CORE	TOP	BOTTOM	LOCATION	TYPE
EAGLE PLAINS YT NO. 1	PEEL PLAT	58 1	2116		C-10643	PALYN

WELL NAME	OWNER	YR CORE	TOP	BOTTOM	LOCATION	TYPE
EAGLE PLAINS NO. 1	PEEL	58 1	2105	2109	C-30261	T.SEC
			3613		C-30261	
			3622		C-30261	
			3659		C-30261	
			3670		C-30261	
			3921		C-30261	
			3936		C-30261	
			4827		C-30261	
			5593		C-30261	



Shale & scattered st. lam. gry & dk gr to
 bl. interbedded. fiss, mica, Lens sty sh.
 Scat. brown non-mica sh. lens.
 Tr. bl. carb. filaments.

Core No. 1, 2101 - 2122.

Recovered 21' Shale.

Sh. abund. fine interb'd & lams. St. &
 tr. ss.

66 48 54 139 07

A. W. Norris
Fuels & Stratigraphy

E. J. Tassonyi

9 October 1963

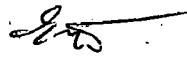
Eagle Plain Files

At Dr. Belyea's request I enclose the following files of the Eagle Plains No. 1 well:

1 letter with palaeontological report, Dec. 3, 1958, Dr. (Stelck to Peel Plateau Expl.)

1 report, with map, Nov. 1958, Geology Eagle Plains - Caribou Anticline, Yukon Territory, by W. F. Wuest, Peel Plateau Expl.

These reports were misfiled, but since turned up. All data are confidential.



E. J. Tassonyi

Encls. - 2
EJT:ss

REGISTERED MAIL

Log File

W. Belyea

66-48/138

Report on forty-three lots of fossils from core from the Eagle Plains No. 1, Grandview Hills No. 1, Kugaluk N-02, Pt. Separation No. 1 and Root River I-60 wells, Yukon Territory and District of Mackenzie (NTS 95J; 106M,0; 107A; 116J)

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision.

<u>Depth</u>	<u>Well, Fossils and Age</u>	<u>GSC Loc. No.</u>
	Richfield Oil Corp. et al. <u>Grandview Hills No. 1</u> 67°06'12"N., 130°52'30"W	
3148 1/2 ft.	gastropod (?) - <i>Cossage</i> <i>M.A.M.</i>	C-18045
3549 ft.	indeterminate coral - <i>Renning</i> <i>M.A.M.</i> age: Middle Ordovician to Permian	C-18046
3566 ft.	gastropod (?) <i>Renning</i>	C-1927
4211 ft.	indeterminate fossil <i>Renning</i>	C-18047
4219 ft.	indeterminate tabulate coral <i>Renning</i> age: Middle Ordovician to Permian	C-18048
	FPC Tenneco Root River I-60 62°39'32.21"N., 123°24'28.96"W.	
6621 ft.	echinoderm fragments large gastropod bryozoan (?) <u>Palaeofavosites</u> sp. age: Late Ordovician to Late Silurian	C-18036
6624 ft.	echinoderm fragments ?Bighornia sp. <u>Lobocorallium</u> sp. <u>Palaeophyllum</u> sp. age: Late Ordovician	C-18037
6627 ft.	indeterminate solitary coral	C-18038
6631 ft.	<u>Bighornia</u> sp.	C-2520
6645 ft.	streptelasmid coral age: Middle Ordovician to Silurian	C-18039
	Richfield et al. Pt. Separation No. 1 67°34'06"N., 134°00'10"W.	
7982 1/2 ft.	undetermined stromatoporoid	C-18060
7984 1/2 ft.	undetermined stromatoporoids <u>Favosites</u> 2 spp. heliolitid coral (?) age: Silurian to Middle Devonian	C-18061

Rick Y.
Warren M

Nick D.

7982 1/2 ft.
Renning Group
7984 1/2 ft.
Renning Gp.

Renning M.A.M.

Depth	Well, Fossils and Age	GSC Loc. No.
7988 ft.	undetermined stromatoporoid <u>Cystiphyllum</u> sp. age: Silurian	C-18062
7993 ft.	undetermined stromatoporoid ?Favosites 2 spp. <u>Multisolenia tortuosa</u> Fritz age: Silurian, probably Late Llandovery	C-18063
8013 ft.	indeterminate orthid brachiopod	C-18064
8017 ft.	indeterminate brachiopod	C-18065
8019 ft.	<u>Cystiphyllum</u> sp. age: Silurian	C-18066

Peel Plateau Eagle Plains Y.T. No. 1
66°48'54"N., 138°08'30"W.

Rick Y.
Warren M.

7061 ft.	echinoderm fragments ?Favosites sp. <u>Syringopora</u> sp. age: Silurian to Devonian	C-18050
7368 ft.	?Favosites sp. age: Late Ordovician to Middle Devonian	C-18051
7696 ft.	inarticulate brachiopod	C-18053
7888 ft.	indeterminate fossils	C-18054
7890 ft.	streptelasmid coral	C-18055
7891 ft.	streptelasmid coral <u>Palaeophyllum</u> sp. indeterminate tabulate coral age: late Middle Ordovician to Early Silurian	C-18056
7893 ft.	stromatoporoid (?)	C-18056A
7895 ft.	<u>Catenipora</u> 2 spp. age: late Middle Ordovician to Late Silurian	C-18057
7897 ft.	<u>Bighornia</u> sp. <u>Palaeofavosites</u> sp. age: Late Ordovician	C-18058
7898 ft.	? <u>Lobocorallium</u> sp. indeterminate solitary coral <u>Catenipora</u> sp. <u>Palaeofavosites</u> sp. ?Palaeofavosites sp. age: Late Ordovician	C-18059

*Carbonate sequence of
Road River Fm.
Venta?*

<u>Depth</u>	<u>Well, Fossils and Age</u>	<u>GSC Loc. No.</u>
	CPOG Kugaluk N-02 68°31'55"N., 131°31'19"W.	
5590 1/4 ft.	<u>Favosites</u> sp. age: Late Ordovician to Middle Devonian	C-18011
5614 ft.	echinoderm fragmnets <u>Cystihalysites</u> sp. age: Silurian	C-18012
5615 ft.	indeterminate coral	C-18013
5624 ft.	favositid coral	C-18014
5626 ft.	indeterminate coral	C-18015
5819 1/2 ft.	? <u>Cystihalysites</u> sp. ? <u>Favosites</u> sp. age: Silurian	C-18016
5824 ft.	indeterminate coral	C-18017
5978-5980 ft.	? <u>Favosites</u> sp.	C-18018
6111 ft.	? <u>Catenipora</u> sp. age: late Middle Ordovician to Late Silurian	C-18019
6126 1/2 ft.	? <u>Catenipora</u> sp. age: late Middle Ordovician to Late Silurian	C-18020
6190 ft.	indeterminate solitary coral halysitid coral age: late Middle Ordovician to Late Silurian	C-18021
6199 1/2 ft.	indeterminate fossils	C-18022
6242 ft.	indeterminate solitary coral	C-18023
6423 ft.	favositid coral (?) age: probably Late Ordovician to Devonian	C-18024
6491 ft.	favositid coral (?) age: probably Late Ordovician to Devonian	C-18025
6619 ft.	fossil (?) fragments	C-18026

Ronning?
Vunta?




B.S. Norford

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology,
Calgary, June 26, 1972