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June/1979.

REPORT ON BEARCH FOR COAL DRIFOSITS, CHURCHILL, HAMITODA ARDA, ALOUST, 1964 ****

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A report submitted to Sogopet Limited (Societie Generale des Potrolo)

March, 1965

HOLESUCIONINI

The existence of coal doposite in the Churchill, Maniteba area has been remoured for many years. Little evidence was available as to their location and because of economic factors very little interest was aroused.

possibility that this "coal" may actually be oil shale could not be discounted, especially cince no geologist had actually even the samples or visited the deposits. Further old newspaper disprings and runnur described the coal as rich in paraffin and pitch, and that it was adjacent to oil or gas seeps.

Accordingly, the writer was directed to find out as much as possible regarding the ec-called coal. This work was done on his return from Southempton Island, botween August 11 and 14, 1964. Nuch of the time was sport questioning the inhabitants and checking their information by flying over the likely areas, and in some cases checking on the ground. To coal or eign of coal was found although the areas in which it may occur are shown on figure 2 (in pocket).

The principal sources of information were Are. E. Krentund, tr. Art Anderson, Joe Chambers and his son, Jim Chambers.

SOURCES OF INTERNATION

Mro. P. Rronlund

Hera. Kronlund is the widow of the late pioneer resident, Mr.

Ed ("Fate") Kronlund. She kindly showed the writer a sketch map

Er. Kronlund made of the coal deposite, a hurried copy of which is
shown on figure 1. According to information on the map Mr. Kronlund

staked (or registered) the claims on Cotober 3, 1946. A Mr. W.M.

Buckholz was also noted on the maps as baving staked the same area
on September 24 and 30, 1946: no information is available on the

latter individual. The map also locates the deposite at latitude
58 degrees 27 minutes north and longitude 93 degrees 47 minutes west,
and as being 25 miles northwest to Churchill and 13 miles east of Bylot.

Hrs. Kronlund vory kindly showed the writer a letter received from the University of Saskstchewan and from Hilton Hersey Company (address unknown) regarding analysis of the coal.

The University of Sankctchauen letter was deted January 15, 1967, and gave the following date:

Modesturo ee received 59.3%

Ash as received 5.12%

ibsting Value as received 4350 B.T.U./1b.

This letter was written by G.G. Bailey (Analyst) and noted that no work was done on oil or by-products.

The Milton Porsey letter was more complete. It was dated

Jenuary 16 but no year was given. Data given is tebulated below:

	Air dried	As received
Air drying loss	45.00	
Poisture	31.60	62.38
Volctile Hetter	28.20	15.51
Fixed Carbon	33.70	18.54
Aeh	6.50	3.57
Sulphur	1.19	0.65
B.T.U./1b.	7645	4205
Coking qualities	- non-coki	ng
Colour of ash	- light to	O PO

Both the directional data on Kronland's map and the map itself strongly suggest that the area of the coal deposits is within that indicated as "Kronland's Area" on figure 2. Two flights were accordingly made to see if any diggings could be found and two landings made mean near possible prespects. One was at latitude 58 degrees 24 minutes and longitude 93 degrees 50 minutes and the other at 58 degrees 27 minutes and longitude 93 degrees 46 minutes (see figures 2, 4, 5, 6). Both turned out to be black organic much. The colour closely miniced coal diggings from the air.

Mr. Art American

Mr. Anderson, the owner of Empress Lumber Company, is a person of standing and repute in Churchill and went to a considerable emount

"26 miles NW to Churchill"
"13 miles E of Bylot"
"58"27'N 93" 47'W"

" / inch = / inile

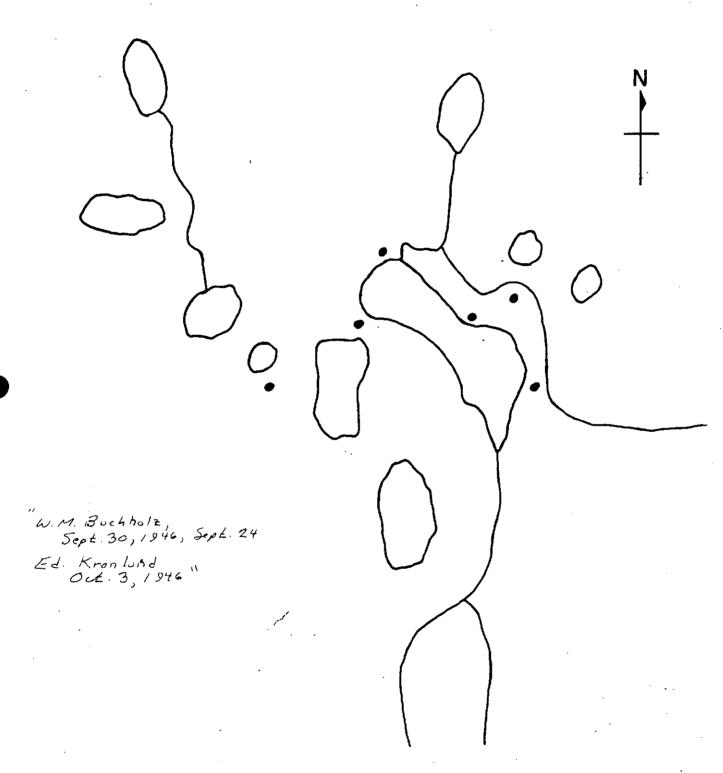


Figure 1. E.KRONLUND'S Claim Map-presumably submitted to the Manitoba Government in 1946. Black dots are Coal prospects. Copy of hurried sketch map made the writer.

of trouble to help the writer. He is the brother-in-law of Mr. Ed Kronlund and once had occasion to visit the coal deposit in winter.

Apparently samples were collected but lost on the way out. Mr.

Anderson's description would place the deposit on a knoll between the morth and of two fairly small lakes. The deposit may have a reddish colour because of fire.

Hr. Anderson originally placed the deposit in the "Twin Lakes" area (see figure 2) some 15 miles east of Churchill and 10 miles south of the coast. When he visited this region with the writer, hencever, it did not look familiar to him. Instead he felt from the lie of the land that the deposit might be some 10 miles further south. The actual direction pointed out was about 140 degrees coutheast of "Twin Lakes". This would put the deposit very close to Bromlund's Area. It should be noted that Hr. Anderson continually stressed the importance of the knoll being near the deposit. Apparently it is fairly prominent.

Hr. Joe Chambern

Mr. Chambors or "Tropper Joo" is a grand old men of 86 years living along the C.N.H. tracks at Mile 499 about 10 miles couth of Churchill. Since Mr. Chambors had recently suffered a stroke the writer was coutioned regarding his accuracy. For his age, however, he is a very lucid and entertaining person.

Er. Charbers said he had never been to the coal deposit

Jin Chambers soid he and Joe Chambers once visited the demosit.

but had seen samples. He thought they looked more like shale than coal. He placed the deposit about 12 miles each of Churchill and 4 to 5 miles south from the coast. This would not be too for from the Train Lakes Areas of Mr. Anderson.

Mr. Jin Chesbers

Ur. Jim Chambers is the son of Mr. Joe Chambers. As is about 40 years old and works at the National Marbour Board. Jim Chambers placed the deposit between Warkworth and Twin Lakes and said he visited it with his father while trapping.

Ar. Jim Chember's positioning would put the deposit in an area devoid of lakes. This does not agree with either El Erchlund's or Art Anderson's description who both had it near a fairly large body of water.

<u>conclusions</u>

Although the deposit has not been found the writer in of the opinion that it is more likely coal than cil shale, and is probably lightle of Cretaceous or Cenoscic age. He bases this opinion upon analyses submitted by the University of Sasketchewan and Milton Horsey Company. The latter, in particular, suggest the deposit is a low grade lightle. He also feels that the analysts at both institutions were probably tochnically competent to distinguish between coal and cil shale, and would have noted the latter if it was such.

The actual area in which the deposit occurs is still in doubt. Although the writer has epont most time searching both in the air and on the ground over Kronlund's Area on figure 1, he still is of the opinion that this is the most favourable site. This opinion is based upon the fact that Kronlund's claim map diosoly tallies with the actual geography there. A point that should be remembered, however, is that it may tally too closely. Frontund may have thought he was in this area, borrowed a topographic map, copied the lake outlines and distribution, and submitted it as a claim map.

If further work is done in locating the coal deposit it is recommended that helicopter be used. Relatively few of the landing lakes can be trusted in this region because of their shallow nature.

MISCELLATFOUS

Mr. Joe Chambers informed the writer that there was a salt spring at the bridge over Karkworth River at Mile 499. This spring is on the northwest corner of the bridge end was supposedly started come years ago when feetings were being drilled for the bridge.

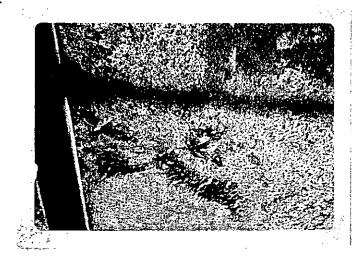
According to Mr. Chembers the spring never freezes in winter and is salty. The writer checked the spring. It is very cold and he suspects that it may have a deep source in rock rather than a surficial one. This is because the abundant fresh rock rubble about the area collected when blasting for the bridge suggests that subcrop is mearby.

The water had only a slight brackish taste, not the saline one described by Joe Chambers. Showver, because of the possibility that it slight reflect a subsurface evaporate deposit a sample was taken and later analyzed for potassium and sodium by the University of Alberta.

The analysis showed the water to be high in sulphate and carbonate (assumts not stated), with 39 parts per million of potassium and 260 parts per million of codium. Apparently these are not extraordinarily high concentrations.

One other isolated fact is that the rocks about the Markworth River bridge are Silurian limestone and delegate often with a prenounced bituminous edeur.

Figure 4. Areal view of suspected coal deposit at latitude 94 degrees 24; minutes and longitude 93 degrees 50% minutes. Sec figure 5.





Vigure 5. View of prospect (see figure 4) on ground. This turned out to be black organic suck, possibly fres a dried-up pond.

Figure 6. View of suspected total deposit at letticis 50 degrees 27 minutes and longitude 93 degrees to minutes. This sire turned out to be the seas organic much castom in figure 5.



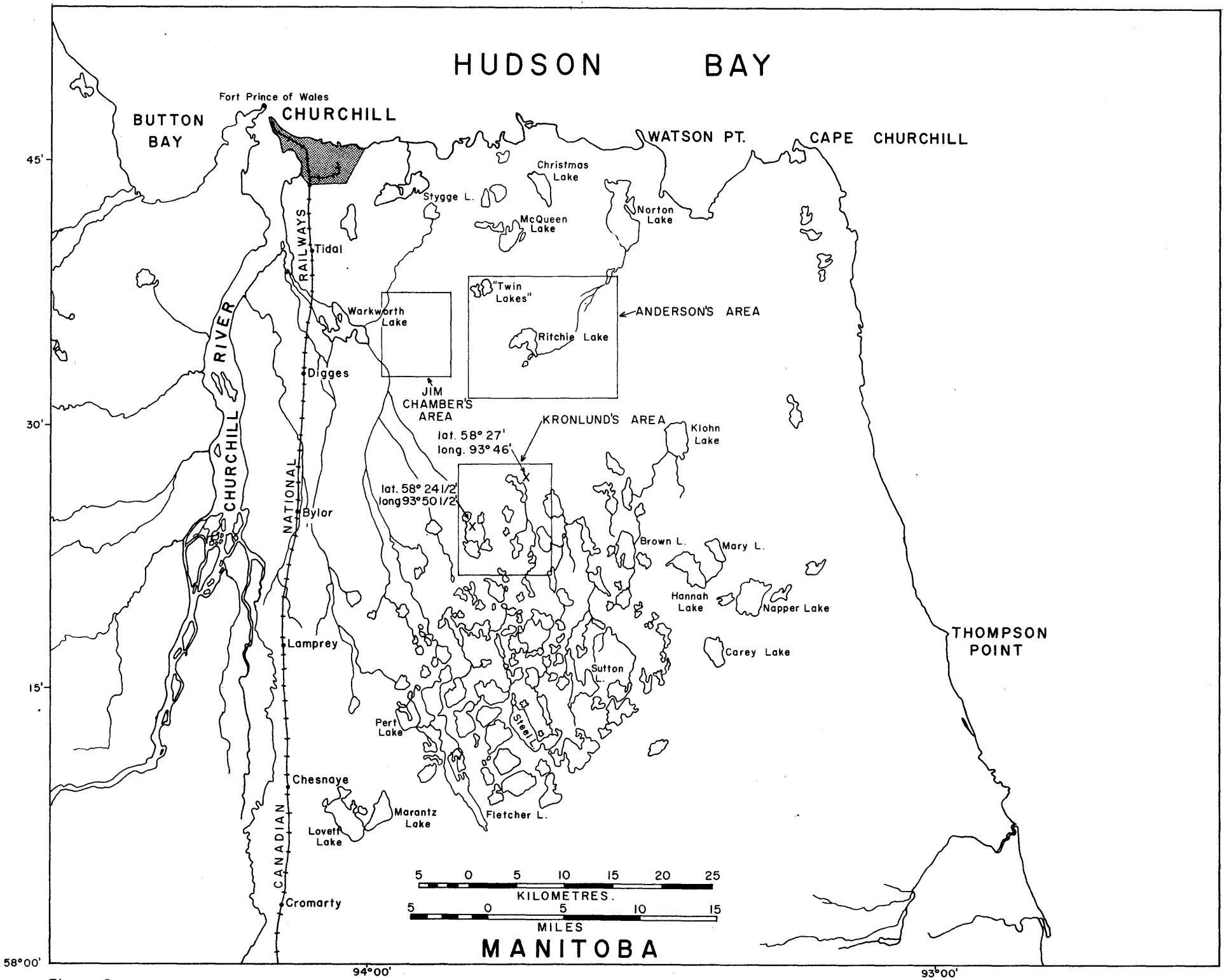


Figure 2. CHURCHILL REGION, Showing the three probable areas in which the Coal Deposits might be located. Crosses with latitude and longtitude are areas examined on the ground.