

MAR 19650003: EASTERN ALBERTA

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19650003

ECONOMIC MINERALS
FILE REPORT No.
<u>EE-AE-024(a)</u>

IRON ORE PROSPECTING

PERMIT NO. 24

FINAL REPORT

March 9, 1965.

N. S. Edgar, P. Eng.

Iron Ore Prospecting Permit No. 24 - Final Report

Description of Programs:

During February 1963, two exploratory holes were drilled in the south portion of the Permit area, as part of a larger program involving other acreage to the south and north. Much difficulty was experienced in reaching drill sites due to lack of frost and to beaver dams which made truck travel almost impossible.

In March 1965, five additional holes were drilled in the northern half of the Permit area.

A plan showing location of these drill holes is attached hereto, together with logs of same.


Discussion of Drilling Results:

The results of drilling in T. 89R. 4 W6M showed nothing but glacial till to depths well below the calculated position of the iron ore bed. The indication is that an erosional valley exists in the underlying basement topography, and that the ore bed has been removed.

In the area south of the south Whitemud Creek the ore bed was encountered in the two drill holes 63-7 and 63-8, both in T. 88 R. 3 W6M. It is also reported that iron ore occurred in an oil exploration drill hole in 10-12-88-4-6, within the Permit area although this has not been confirmed by the writer at the present time.

The area underlain by the iron ore bed appears to be between 4000 to 7000 acres in extent with an average thickness of possibly 10 to 12 feet. Further drilling will be required to detail the reserves present.

Edmonton, Alberta,
March 9, 1965.



N. S. Edgar, P. Eng.,
Mining Engineer.

LOG OF DRILL HOLE NO. 5-6-89-3-6

North boundary centre

Location: 5-6-89-3-6 Elevation Top: _____ Depth: 114' Page No. 1

Elevation: 2580 Inclination: Vertical Date Completed: March 4, 1965.

Drill Core		Description	Samples		Description
From	To		From	To	
0	105'	Till - green-black with pebbles, granite quartz, etc.			
105	112'	Sandy silt			
112	114'	Fine gravelly material (sample)			
		Bottom Elevation 2466			

LOG OF DRILL HOLE NO. 3-13-89-4-6

Location: 3-13-89-4-6 Elevation Top: _____ Depth: 175' Page No. 1

Elevation: 2620 Inclination: Vertical Date Completed: March 4, 1965.

Drill Core		Description	Samples		Description
From	To		From	To	
0	158.7	Green-black till- occasional boulder and pebbles.			
158.7	175'	Fine gravel (sample). Bottom of hole Elevation 2470.			

LOG OF DRILL HOLE NO. 8-15-89-4-6

Location: 8-15-89-4-6 Elevation Top: _____ Depth: 90' Page No. 1

Elevation: 2580 Inclination: Vertical Date Completed: March 5, 1965.

Drill Core		Description	Samples		Description
From	To		From	To	
0	90'	Greenish-brown till - bottom 10', much like others - gravelly. Bottom Elevation 2490.			

LOG OF DRILL HOLE NO. 8-22-89-4-6

Location: West boundary 8-22-89-4-6 Elevation Top: _____ Depth: 105' Page No. 1

Elevation: 2610 Inclination: Vertical Date Completed: March 5, 1965.

Drill Core		Description	Samples		Description
From	To		From	To	
0	105	Green-brown till - bottom fairly gravelly (fine) - sample. Bottom Elevation 2505.			

LOG OF DRILL HOLE NO. 13-36-88-4-6

Location: Northwest Corner Elevation Top: _____ Depth: 120' Page No. 1
13-36-88-4-6

Elevation: 2590 Inclination: Vertical Date Completed: March 5, 1965.

Drill Core		Description	Samples		Description
From	To		From	To	
0	120'	Greenish-brown till, boulders at bottom. Bottom Elevation - 2470			

LOG OF DRILL HOLE NO. 63-7

P- N= 24

Location: 3-32-88-3W6 Elevation Top: 2524.5 Depth: 103' Page No. 1

Elevation: 2600 Inclination: 90° Date Completed: March 9, 1963.

Drill Core		Description	Samples		Description
From	To		From	To	
0	6'	Tan coloured surface clay			Sampled 1' x 1' from 75.5 to 103' sludge samples
6'	75.5'	Glacial Till			
75.5'		Bedrock top of zone 2524.5			
75.5'	81'	Impure sandstone, some chamosite, sparse to rare oolites			
81'		Top of ore elev. 2519			
81'	98'	Oolitic ore; 83'-84' high in silica, 87.5'-89' and 90'-98' is dark grey to black, conglomeritic with fine, well rounded pebbles; densely oolitic			
98'	100'	Oolites, few to sparse; much silica			
100'	101'	Fine sand with some chamositic mud.			
101'	103'	Gritty clay shale			

LOG OF DRILL HOLE NO. 63-8

NE Corner of LSD

Location: 14-18-88-3W6 Elevation Top: 2553 Depth: 141' Page No. 1

Elevation: 2675 Inclination: 90° Date Completed: March 10, 1963.

Drill Core		Description	Samples		Description
From	To		From	To	
0	5'	Tan coloured surface clay	120'	125'	Recover 1.8' 120' to 122' soft clay shale-recovered, 8" 122' to 125' - Impure silty sandstone, some oolites - recovered 1.0"
5'	30'	Dark brown grey-shale-like clay			
30'	30.4'	Granite boulder			
30.4'	54'	Glacial clay	125'	133'	Dark greenish brown, almost black, densely oolitic, hard, some small blebs, blue silt, unoxidized - recovered 4.5'
54'		<u>Bedrock</u> elev. 2621			
54'	122'	Grey clay shale, soft			From drill action bottom of zone is at 138' and probably from 133' to 138' is sand with oolites in top portion. 138'-141' - probably clay shale - recovered 4"
122'		Top of Zone - hard capping	133'	141'	
122'	122.3'	Hard capping			
122.3'		Lose water, begin coring Poor recovery due to pebbles ahead of core bit. Redrill and core from 120'			
Core 120'	125'	Recover 1.8', 36%			
Core 125'	133'	Recover 4.5', 56%			
Core 133'	141'	Recover 4", 4% 21' cored 6.5' recovered or about 30%			Bottom of hole at 141' elev. 2534.

R 4, W 6 M

R 3, W 6 M

TP 89

TP 89

TP 88

TP 88

23 BASE LINE

FOREST ROAD




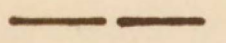
R 4, W 6 M

R 3, W 6 M

Note
Acreage Selection shown in red.

PERMIT No. 24

LEGEND

-  "NO ORE" DRILL HOLE
-  "ORE" DRILL HOLE
-  SEISMIC LINE
-  IRON PROSPECTING PERMIT APPLICATION AREA

N. S. EDGAR B. SC. P. ENG.
EDMONTON ALBERTA

PROPOSED DRILLING PROGRAM FOR
IRON PROSPECTING PERMIT 24,
T 88, 89, R 3, 4, W 6 M.

SCALE: 1.25" = 1 MILE

DATE: MARCH 7, 63
MARCH 7, 65

D'W'N BY: H. W.

C'K'D BY: N. S. E.

