

MAR 19640004: SWIFT CREEK

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ECONOMIC MINERALS
FILE REPORT NO.
<u>FE-AE-024(01)</u>

A-39

IRON PROSPECTING PERMIT NO. 24

FINAL REPORT

Edmonton, Alberta
March 4th, 1964

N. S. Edgar, P.Eng.

IRON PROSPECTING PERMIT NO. 24

FINAL REPORT

Description of Program

Two test holes were drilled within this Permit area. A plan, marked Appendix "A" is included with this report showing location of the drill holes. Drill logs of the holes also accompany this report.

Discussion of Drilling Results


Sampling of the Swift Creek iron ore has indicated an average grade of about 34% iron. Close examination of samples and cores obtained from drill holes in Permit No. 24 show the ore, in this Permit area, to be identical in character with the Swift Creek ore and there is every reason to believe that the ore in Permit No. 24 is a continuation of the Swift Creek deposit.

Sufficient data was obtained from holes drilled in this Permit area to indicate the probable thickness of the ore zone and to provide information of the attitude of the ore bed so that those areas probably underlain by ore could be selected from the Permit area's acreage. The selected areas are shown on Appendix "A". (see Final Report N.S. Edgar March 9, 1965) Approximately 6,720 acres of this Permit area are probably underlain by iron ore having an overburden thickness of 200 feet or less. Average thickness of the ore is estimated at about 13 feet. The ore tonnage underlying the lease areas may be calculated using a factor of 3397 tons per acre-foot.

Statement of Expenditures Made on Permit No. 24

Total amount spent on this Permit by Peace River Mining & Smelting Ltd., is \$1,722.00. This is exclusive of metallurgical research costs.

Respectfully submitted,


M. S. Edgar, J. Eng.

Edmonton, Alberta
March 5th, 1964

LOG OF DRILL HOLE NO. 63-7

Location: 3-32-88-3W6 Elevation Top: 2524.5 Depth: 103' Page No. 1
 Elevation: 2600 Inclination: 90° Date Completed: 10 March, 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 elevation 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.

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

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

Zone thickness is probably 10' to (13') (122.5' to 134' or better)

Drill Core		Description	Samples		Description
From	To		From	To	
0'	5'	Tan coloured surface clay	120'	125'	Recover 1.8'
5'	30'	Dark brown grey shale-like clay			120' to 122' soft clay shale, recovered 8"
30'	30.4'	Granite boulder			122' to 125' - Impure silty sandstone, some oolites - recovered 1.0"
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			
122'		Top of Zone - hard capping	133'	141'	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'	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