

MAR 19630001: WEST CENTRAL ALBERTA

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19630001

ECONOMIC MINERALS

FILE REPORT No.

EE-AE-031(01)

IRON PROSPECTING PERMIT No. 21

REPORT

FIRST SIX MONTHS EXPLORATION

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REPORT

FIRST SIX MONTHS EXPLORATION

DESCRIPTION OF PROGRAM

During the first six months of the life of this permit a program of drilling was undertaken to outline the areal extent of iron ore which was first observed in outcrop in Section 28 T79 R9 W6M.

A plan marked Appendix "A" is included with this report showing the location of the drill holes in the permit area.

DISCUSSION OF DRILLING RESULTS

Initial sampling of the top of the zone at the outcrop area indicated the grade of ore to be 39% iron.

The drill holes were not sampled in detail since the equipment used was unable to effect a complete core recovery. Sufficient data was obtained however to indicate the thickness of the ore zone and its lateral extent. This is outlined in the map # 1 Appendix "A".

Several geological theories regarding the possible trend and extent of the deposit were tested by this drilling program. Results show reasonably conclusively that the ore occurs on a monoclinial structure dipping gently to the east, it terminates on the northeast, north and west by erosion and on the south apparently by the east-west trending Spirit River ridge or scarp. To the southeast it apparently grades out into the slightly ferruginous Bad Heart sandstone.

It appears that the major deposit in this region lies in T79 & 80 R9 W6M, as shown on the plan.

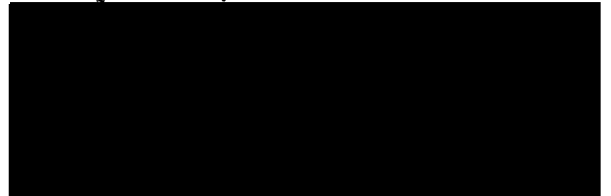
The area underlain by the iron ore bed appears to be of about 4500 acres in extent. It is similar to the ore occurrences in the Clear Hills region 50 miles to the north and may be expected to be of similar grade.

PROPOSED FUTURE EXPLORATION

Since much of this area is almost impassable for conventional truck mounted drills during the summer months, no work is planned until the winter of 1963. As soon as the ground is adequately frozen

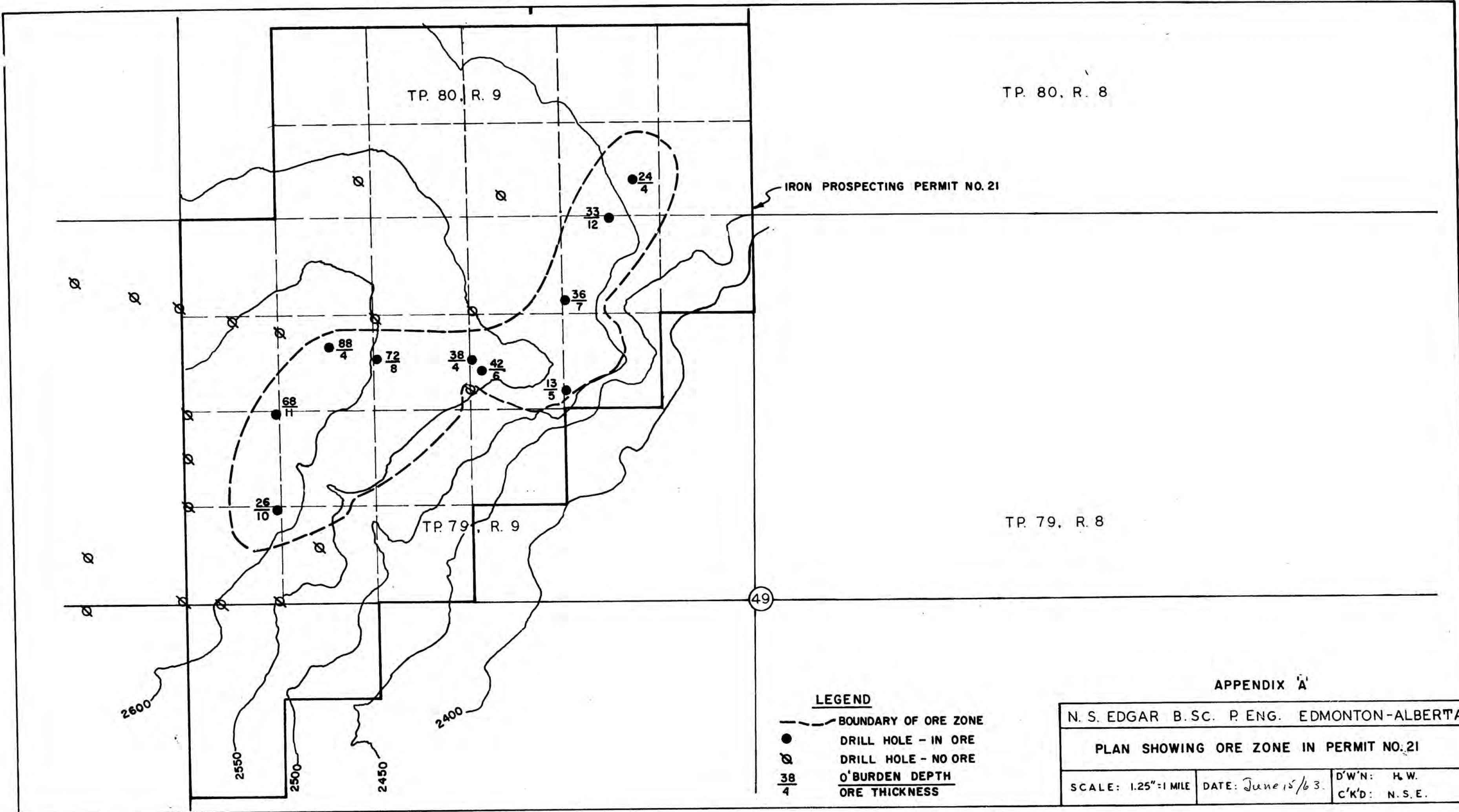
in the fall of the year a further drilling program is planned,
details of which will be submitted prior to its commencement.

Respectfully Submitted,



N.S. Edgar, P. Eng.

Edmonton, Alberta
June 15, 1963



TP. 80, R. 8

TP. 80, R. 9

IRON PROSPECTING PERMIT NO. 21

TP. 79, R. 8

TP. 79, R. 9

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LEGEND

- BOUNDARY OF ORE ZONE
- DRILL HOLE - IN ORE
- DRILL HOLE - NO ORE
- $\frac{38}{4}$ O' BURDEN DEPTH
ORE THICKNESS

APPENDIX 'A'

N. S. EDGAR B. SC. P. ENG. EDMONTON-ALBERTA		
PLAN SHOWING ORE ZONE IN PERMIT NO. 21		
SCALE: 1.25" = 1 MILE	DATE: June 15/63.	D'W'N: H.W. C'K'D: N.S.E.