

521231
Northern Gem
92J/15

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X      X      RRRRR      A      LL
XX     XX     RR  RR   AAA     LL
  XX  XX     RR  RR   AA  AA   LL
   XXX      RR  RR   AA  AA   LL
   XXX      RRRRR     AAAAAAA LL
  XX  XX     RR  RR   AA  AA   LL
XX     XX     RR  RR   AA  AA   LLLLLLLL
X      X      RR      R     AA  AA   LLLLLLLL
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XRF - WHOLE ROCK ANALYSIS

NORANDA EXPLORATION COMPANY LIMITED
Attn: J. ELIZABETH CLEMSON
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TORONTO, ONTARIO
M5E 1J4

CUSTOMER No. 444

DATE SUBMITTED
15-JUL-85

REPORT 24969

REF. FILE 20508

DATE REPORTED 08-AUG-85

XRF W. R. A. SUMS INCLUDE ALL ELEMENTS DETERMINED.
FOR SUMMATION ELEMENTS ARE CALCULATED AS OXIDES.

NOTE: FOR DUPLICATE DETERMINATIONS BY
DIFFERENT METHODS, VALUES APPEAR
IN ORDER OF LISTING ON HEADER PAGE.

DETECTION LIMITS ARE VARIABLE DUE
TO THE NATURE OF SAMPLE.

SAMPLE	SI02	AL203	CAO	MGO	NA2O	K2O	FE203	TIO2	P205	CR203	LOI	SUM
GM-3	8.83	1.54	0.26	0.60	0.05	0.42	26.0	0.03	0.01	0.01	44.8	82.6

SAMPLES WITH LOW SUMS HAVE BEEN REPEATED WITH NO CHANGE

WE HAVE CHECKED FOR THE FOLLOWING ELEMENTS:

CU, ZN, NI, PB, CO, AS, U, MO

OF WHICH AS WAS FOUND
IN GREATER THAN TRACE/MINOR QUANTITIES

THE MATRIX CORRECTION PROGRAM DOES NOT ACCOUNT FOR
THE PRESENCE OF THESE ELEMENTS

	METHOD	DETECTION LIMIT
✓SM PPM	XRF-G	20.000
✓EU PPM	NA	0.200
✓YB PPM	NA	0.200
✓LU PPM	NA	0.050
✓HF PPM	NA	1.000
✓TA PPM	NA	1.000
✓W PPM	NA	3.000
✓PB PPM	DCP	2.000
✓BI PPM	DCP	0.500
✓TH PPM	NA	0.500
✓U PPM	NA	0.500

DATE 08-AUG-85

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY 