

23 HOV 797 06 16 Department of State

INCOMING TELEGRAM

LIMITED OFFICIAL USE

N00358

COPY S OF 15 COMIES

PAGE 01 WELLIN 06278 2305482 ACTION NODS-00

INFO OCT-01 ADS-00 /001 W

-117692 2305492 /16

9-24

O 230406Z NOV 79
FM AMEMBASSY WELLINGTON
TO SECSTATE WASHDO NIACT IMMEDIATE 9050

LIMITED UFFICIAL USE WELLINGTON 06276

NODIS

ED 12065: N/A

TAGS: MNUC, PARM, TGEN, NZ

SUBJECT: SITREP VIII: GNZ RULES DUT EVIDENCE OF SOUTHERN

HEMISPHERE NUCLEAR EXPLOSION

REF: WELLINGTON 6275

1. DR. B. J. O'BRIEN, DIRECTOR OF THE NZ INSTITUTE OF NUCLEAR SCIENCES, RELEASED THE FOLLOWING PRESS STATEMENT AT 1600 HOURS, NOVEMBER 23, 1979.

2. QUOTE -- MEASUREMENT OF RADIUACTIVE FALLOUT AT GRACEFIELD, LOWER HUTT

NEW MEASUREMENTS MADE AT THE INSTITUTE OF NUCLEAR SCIENCES ON THE UNIGINAL RAIN WATER SAMPLE, AND ALSO ON A LARGER 150-LÎTRE RAIN WATER SAMPLE COLLECTED UP TO THE 8TH NOVEMBER, DO NOT CUNFIRM OUR EARLIER RESULTS. WE CAN NOW DEFINITELY SAY THAT WITHIN THE LIMITS OF DETECTION AVAILABLE WITH THE NEW SAMPLE, THERE IS NO BARIUM-140 OR PRASEODYMIUM-143 PRESENT IN THE SAMPLE. THE LIMIT OF DETECTION WITH THE LARGE SAMPLE IS ABOUT ONE-THOUSANDTH OF A PICO-CURIE PER LITRE. THE FINAL CONCLUSION OF EXTENSIVE MEASUREMENTS ON BOTH THÈSE LIMITED OFFICIAL USE

NOT TO BE REPRODUCED WITHOUT THE AUTHORIZATION OF THE EXECUTIVE SECRETARY



Department of State

TELEGRAM

LIMITED OFFICIAL USE

PAGE 02

WELLIN 06278 230548Z

SAMPLES IS THAT THERE IS NO EVIDENCE OF FRESH RADIO-ACTIVE FALLOUT DURING THE PAST THREE MONTHS.

MEASUREMENTS HAVE INDICATED THAT THE URIGINAL SAMPLES WERE CONTAMINATED WITH OTHER RADIONUCLIDES. THE ORIGINAL LANTHANUM SAMPLE DID NOT DECAY TO ZERO, AND THE ORIGINAL PRASEODYMIUM SAMPLE DID NOT APPEAR TO DECAY AT ALL, WHICH INDICATES THAT THERE WAS LONGER-LIVED RADIUACTIVITY PRESENT. WE ARE STILL NOT CERTAIN WHAT THIS RADIOACTIVITY IS, BUT WITHIN OUR LIMITS OF DETECTION, IT DOES NOT EMIT ANY GAMMA RAYS. THERE MAY HAVE BEEN SOME NAUTRAL RADIDACTIVE CONTAMINATION, BUT WE HAVE NO DEFINITE PROOF OF THIS AT PRESENT. WE WILL ATTEMPT TO DETERMINE THE IDENTITY OF THESE CONTAMINANT RADIONUCLIDES BY BETA-RAY SPECTROSCOPY DURING THE NEXT FEW WEEKS. DETERMINATION OF THE DECAY RATES OF THE CONTAMINANTS WILL ALSO BE MADE, BUT THIS MAY TAKE UP TO A YEAR TO ACCOMPLISH. HOWEVER, THESE FINDINGS WILL NOT ALTER THE ABOVE. CONCLUSIONS. END GUOTE. MARTINDELL

NOTE: UPGRADE TO LIMITED OFFICIAL USE -- NODIS -- PER S/S-D

LIMITED OFFICIAL USE

NOT TO BE REPRODUCED WITHOUT THE AUTHORIZATION OF THE EXECUTIVE SECRETARY