MASTER

Airborne Gamma-Ray Spectrometer and Magnetometer Survey

Sleetmute Quadrangle
(Alaska)

Final Report Volume II

Prepared For The Department Of Energy

Grand Junction Office

Grand Junction, Colorado 81501

Under

Bendix Field Engineering Corporation

Grand Junction Operations, Grand Junction, Colorado

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by

Aero Service Division

Western Geophysical Company of America

Houston, Texas 77001

Litton

AERO SERVICE

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G E O L O G I C L E G E N D

<u>Aero Symbol</u>	<u>Map Symbol</u>	
QA	Qal	: Quaternary alluvial deposits
QC	Qc	: Quaternary colluvial deposits
QCW		: Quaternary colluvial deposits (moist phase)
QG	Qg	: Pleistocene glacial deposits
QGW		: Pleistocene glacial deposits (moist phase)
KK	Kk	: Kuskokwim group graywacke and shale
KH	Kkh	: Kuskokwim group hornfels
KT	KRPCg	: Gemuk group
DS	DSOh	: Holitna group
TH	Th	: Holokuk basalt
TT	Tgl/Tgt	: Getmuna rhyolite group
KI	Ki	: Iditarod basalt
TM	Tqm	: Quartz monzonite
TR	Tr	: Albite rhyolite
W		: Water

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Key

FLIGHT PATH
SLEETMUTE

90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1180

→ 90° 0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SIFTEUTE QUAD
LINE 1160

→ 90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1140

90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1100

90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1978

DOE/NURE
SLEETMUTE QUAD
LINE 1120

→ 90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1040

→ 90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1200

90°

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1160

→ 90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1140

90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1120

→ 90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1100

90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1020

→ 90°

0 1 2 3 4 5 MILES
0 1 2 3 4 5 6 7 8 KILOMETERS

AERO SERVICE
JOB 9608
FLOWN 1979

DOE/NURE
SLEETMUTE QUAD
LINE 1000

SLEETMUTE

FORMATION
TOTAL SAMPLES 21817AERO SERVICE
1979

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED..... DATA ADEQUATE
FLIGHT PATH BLANK..... DATA INADEQUATE

+..... COUNT RATE GREATER THAN 3,2,1 STANDARD DEVIATION(S)
+..... ABOVE MEAN
-..... COUNT RATE LOWER THAN 3,2,1 STANDARD DEVIATION(S)
-..... BELOW MEAN

NEITHER + NOR -..... COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED..... 1979 - 1980

THORIUM / POTASSIUM ANOMALY MAP

SLEETMUTE

DOE/NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED..... DATA ADEQUATE
 FLIGHT PATH BLANK..... DATA INADEQUATE
 +..... COUNT RATE GREATER THAN 3.2, 1 STANDARD DEVIATION(S)
 ABOVE MEAN
 ---..... COUNT RATE LOWER THAN 3.2, 1 STANDARD DEVIATION(S)
 BELOW MEAN
 NEITHER + NOR ---..... COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
 FLOWN AND COMPILED..... 1979 - 1980

URANIUM ANOMALY MAP
 SLEETMUTE
 DOE/NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED.....DATA ADEQUATE
FLIGHT PATH BLANK.....DATA INADEQUATE

+.....COUNT RATE GREATER THAN 3,2,1 STANDARD DEVIATION(S)
+ +.....ABOVE MEAN
-.....COUNT RATE LOWER THAN 3,2,1 STANDARD DEVIATION(S)
- -.....BELOW MEAN

NEITHER + NOR -.....COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED.....1979 - 1980

URANIUM / THORIUM ANOMALY MAP

SLEETMUTE

DOE/NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED..... DATA ADEQUATE
FLIGHT PATH BLANK..... DATA INADEQUATE

++.....COUNT RATE GREATER THAN 3,2,1 STANDARD DEVIATION(S)
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NEITHER + NOR -.....COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED.....1979 - 1980

URANIUM / POTASSIUM ANOMALY MAP

SLEETMUTE

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++..... ABOVE MEAN
---..... COUNT RATE LOWER THAN 3.2, 1 STANDARD DEVIATION(S)
..... BELOW MEAN
NEITHER + NOR COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED..... 1979 - 1980

THORIUM ANOMALY MAP

SLEETMUTE

DOE/NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED.....DATA ADEQUATE
 FLIGHT PATH BLANK.....DATA INADEQUATE
 +.....COUNT RATE GREATER THAN 3.2, 1 STANDARD DEVIATION(S)
 ABOVE MEAN
 ---.....COUNT RATE LOWER THAN 3.2, 1 STANDARD DEVIATION(S)
 BELOW MEAN
 NEITHER + NOR -.....COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
 FLOWN AND COMPILED.....1979 - 1980

POTASSIUM ANOMALY MAP
 SLEETMUTE
 DOE/NURE