

*Gedology*  
*GSBX-(79)-48*

GJBX-48 '79

**NURE AERIAL GAMMA-RAY AND MAGNETIC  
RECONNAISSANCE SURVEY**

**GEOLOGY**

**SOUTHEASTERN AREA-ALASKA**

SKAGWAY	SITKA	CRAIG
ATLIN	SUMDUM	KETCHIKAN
MT. FAIRWEATHER	PORT ALEXANDER	DIXON ENTRANCE
JUNEAU	PETERSBURG	PRINCE RUPERT
TAKU RIVER	<u>BRADFIELD CANAL</u>	

QUADRANGLES

**VOLUME II**

LKB RESOURCES, INC.  
55 BUCK ROAD  
HUNTINGDON VALLEY, PENNSYLVANIA 19006

JANUARY 1979

WORK PERFORMED UNDER  
BENDIX FIELD ENGINEERING CORPORATION GRAND JUNCTION OPERATIONS  
SUBCONTRACT NO. 76-015-S AND BENDIX CONTRACT EY-76-C-13-1664

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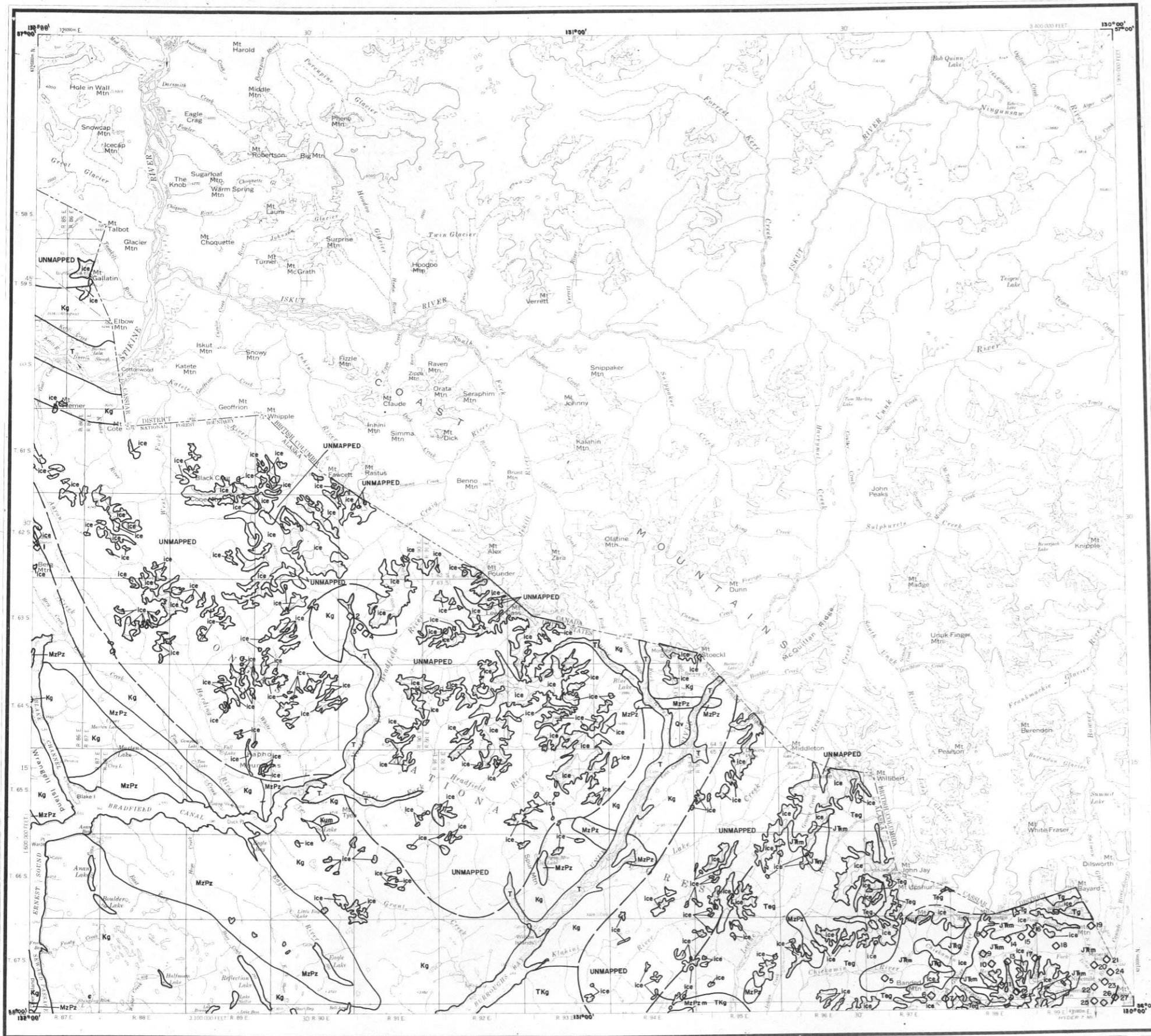
PREPARED FOR THE  
DEPARTMENT OF ENERGY  
GRAND JUNCTION OFFICE  
GRAND JUNCTION, COLORADO 81501

metadc958427

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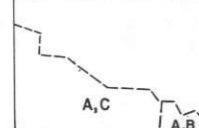
# BRADFIELD CANAL



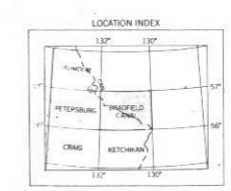
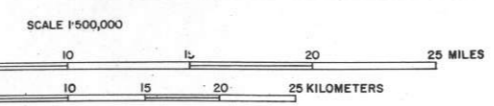
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 ○ 39, X 48, □ 171, 145 METALLIC MINERAL OCCURRENCE IDENTIFIED IN REPORT  
 SOURCE PUBLICATION MF-418, MAP SERIES MR SERIES MR 32 TO 69  
 ICE - [ice]; WATER - [water]; UNMAPPED AREAS - UNMAPPED

BASE MAP SOURCE: PUBLISHED N.T.S. 1:250,000

GEOLOGIC SOURCE INDEX

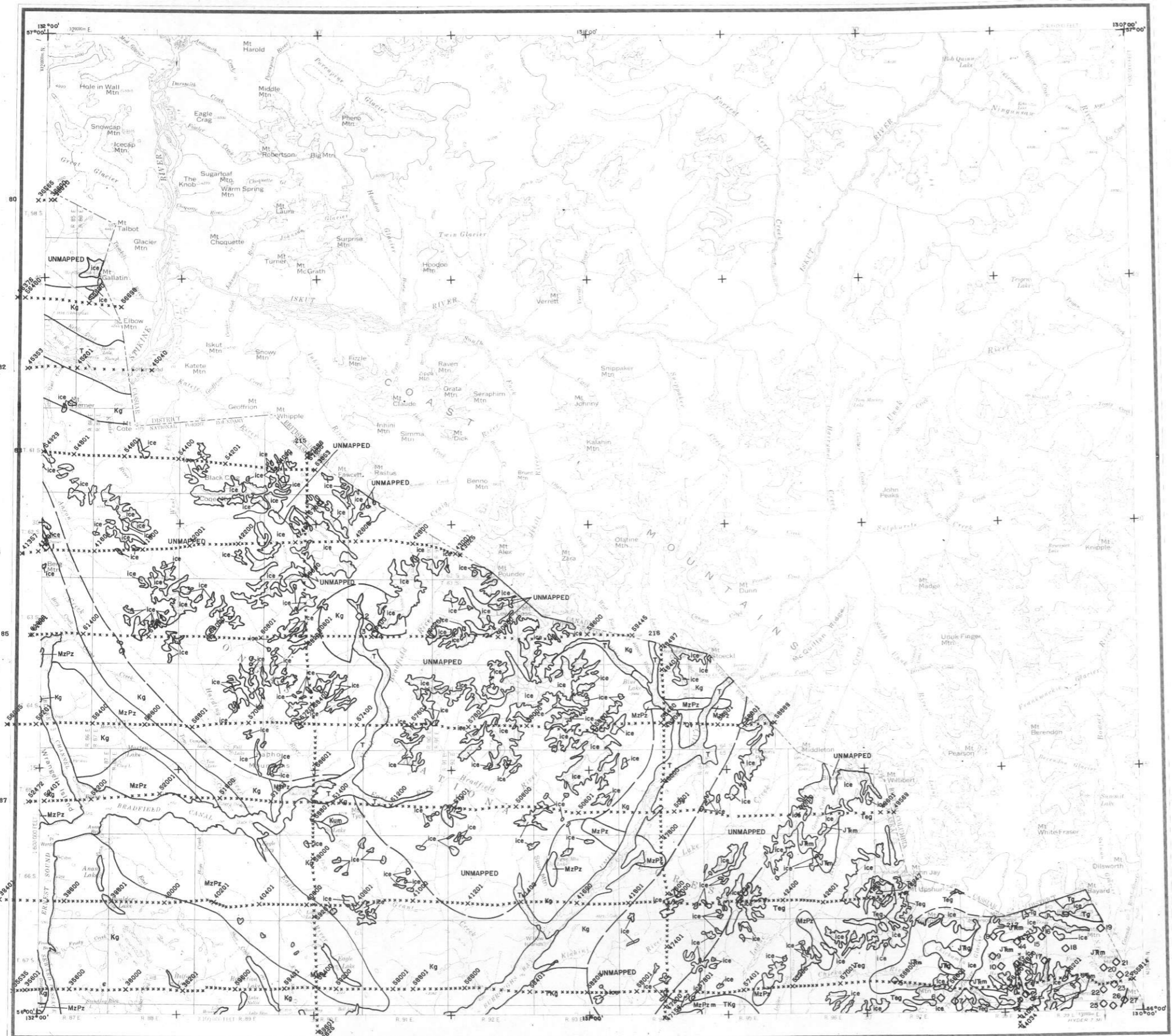


USGS PUB. A. (MF-673) 1:4,000,000  
 B. GEOLOGIC MAP OF THE KETCHIKAN D-1 AND BRADFIELD CANAL A-1 QUADRANGLES, S.E. ALASKA, BULLETIN 1425, PLATE 1, 1:63,360



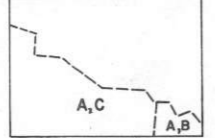
**NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY**  
**BRADFIELD CANAL, ALASKA**  
 GEOLOGIC BASE MAP  
 1976  
 BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
 PREPARED FOR  
 DEPARTMENT OF ENERGY

BRADFIELD CANAL

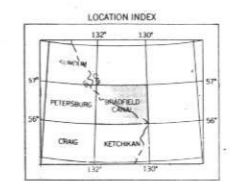
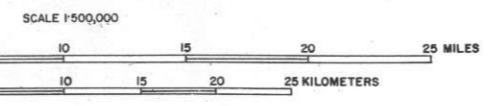


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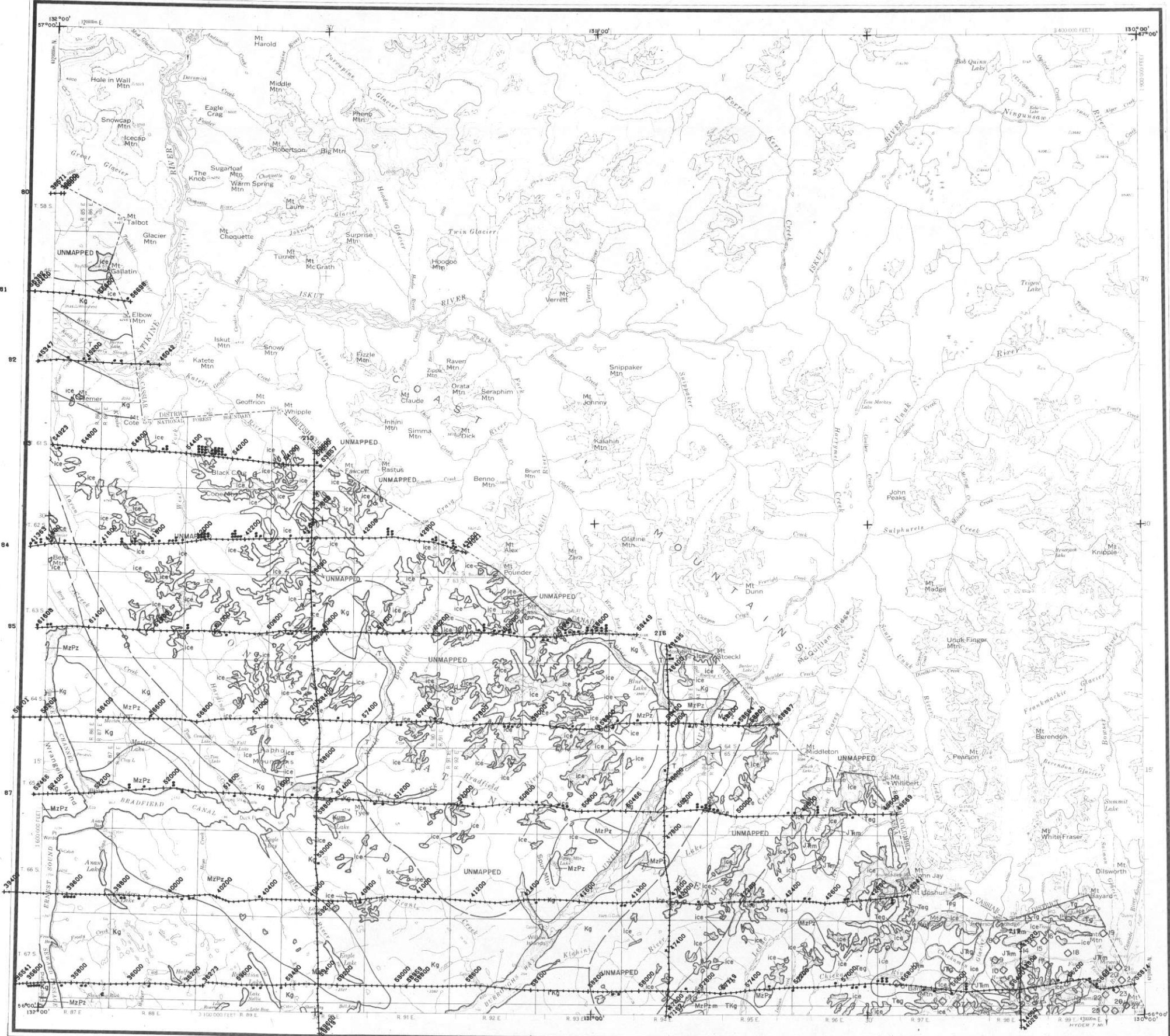


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 C. 1 ANDSAT IMAGERY 1:250,000  
 USGS PUB.



**NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY**  
**BRADFIELD CANAL, ALASKA**  
**FLIGHT PATH MAP**  
 1976-1978  
 BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
 PREPARED FOR  
 DEPARTMENT OF ENERGY

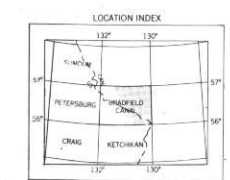
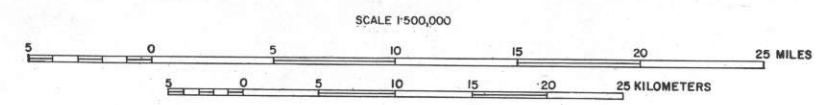
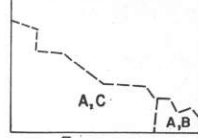
BRADFIELD CANAL



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BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

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**EXPLANATION**

INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.

AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER.

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USGS PUB. A. (MF-673) 1:1,000,000  
 B. GEOLOGIC MAP OF THE KETCHIKAN D-1 AND BRADFIELD CANAL A-1 QUADRANGLES, S.E. ALASKA, BULLETIN 1425, PLATE I, 1:145,360  
 C. LANDSAT IMAGERY 1:250,000

**NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY**

**BRADFIELD CANAL, ALASKA**

**ANOMALY MAP - URANIUM**  
 1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR  
 DEPARTMENT OF ENERGY

# BRADFIELD CANAL

## LEGEND

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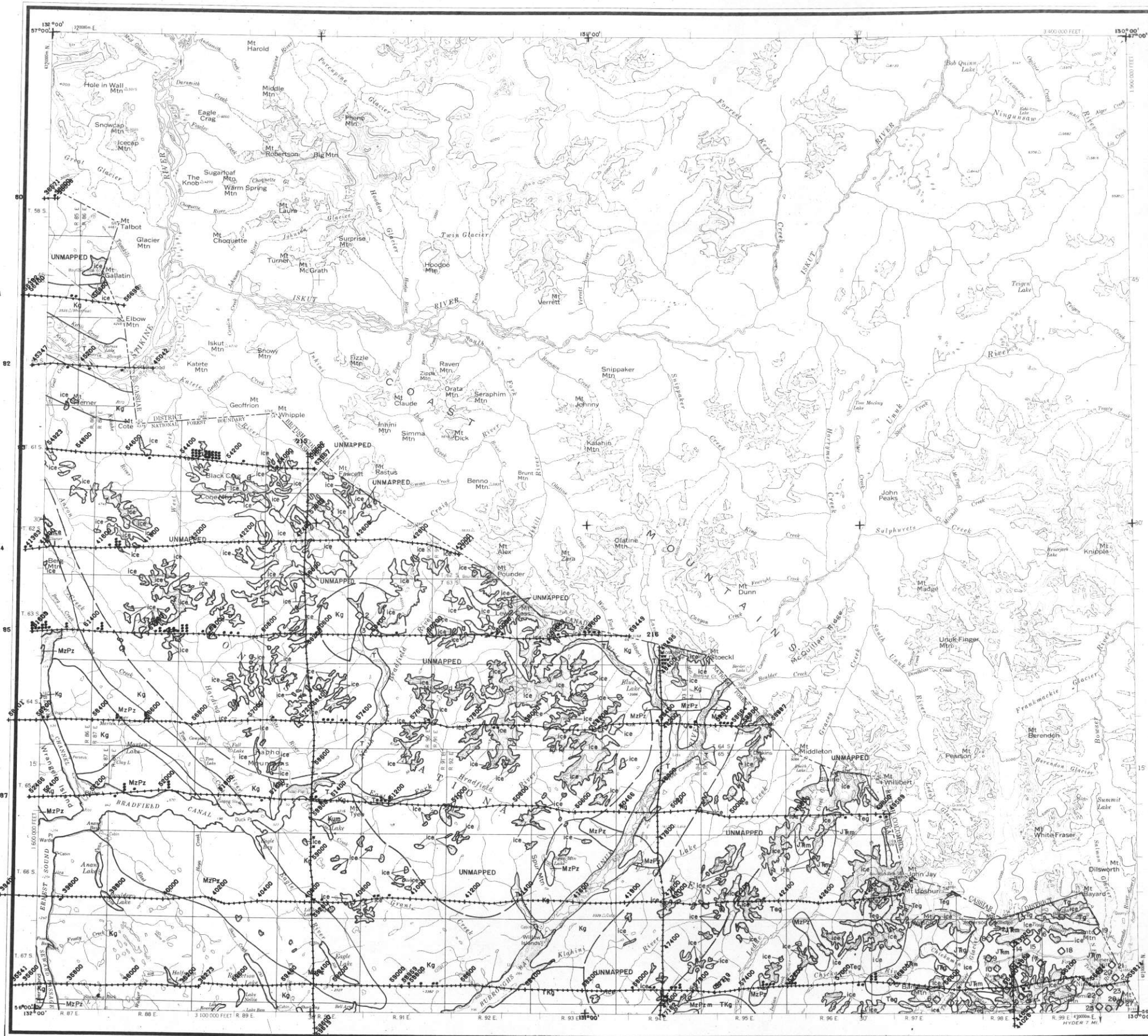
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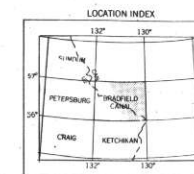
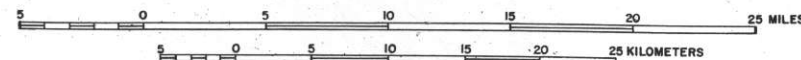
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BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

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SCALE 1:500,000



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USGS PUB.

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NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY

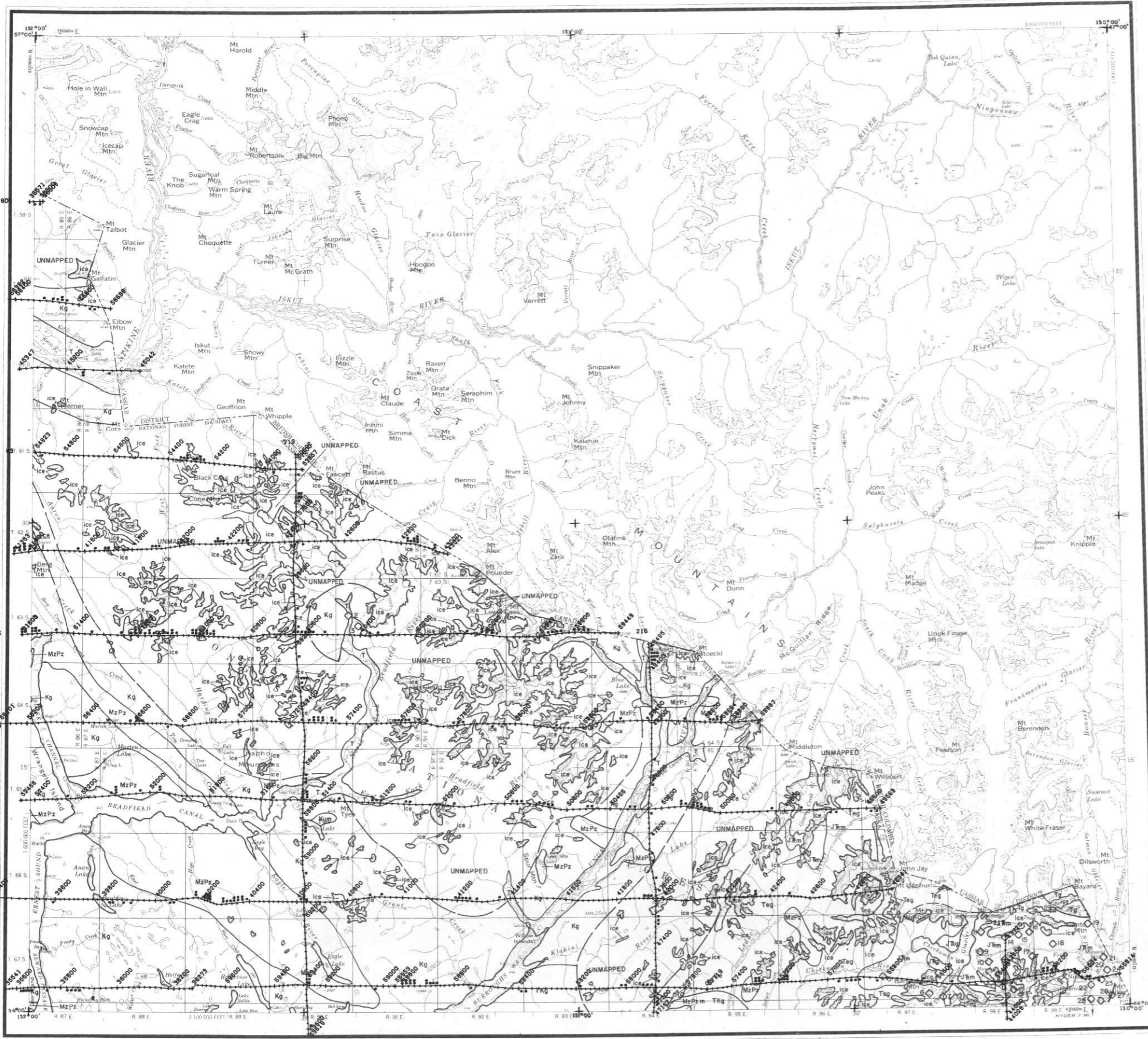
BRADFIELD CANAL, ALASKA

ANOMALY MAP - THORIUM  
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR  
DEPARTMENT OF ENERGY

# BRADFIELD CANAL

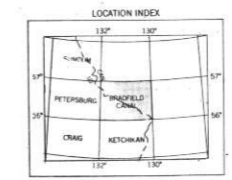
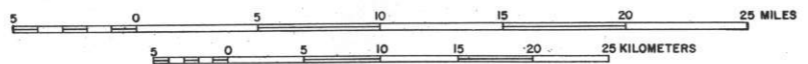


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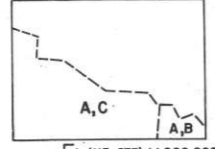


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**NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY**

**BRADFIELD CANAL, ALASKA**

**ANOMALY MAP - POTASSIUM**  
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR  
DEPARTMENT OF ENERGY

# BRADFIELD CANAL

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  - Kum CRETACEOUS ULTRAMAFIC ROCKS

### METAMORPHIC ROCKS

- MESOZOIC**
  - Jrm JURASSIC OR TRIASSIC METAMORPHIC ROCKS

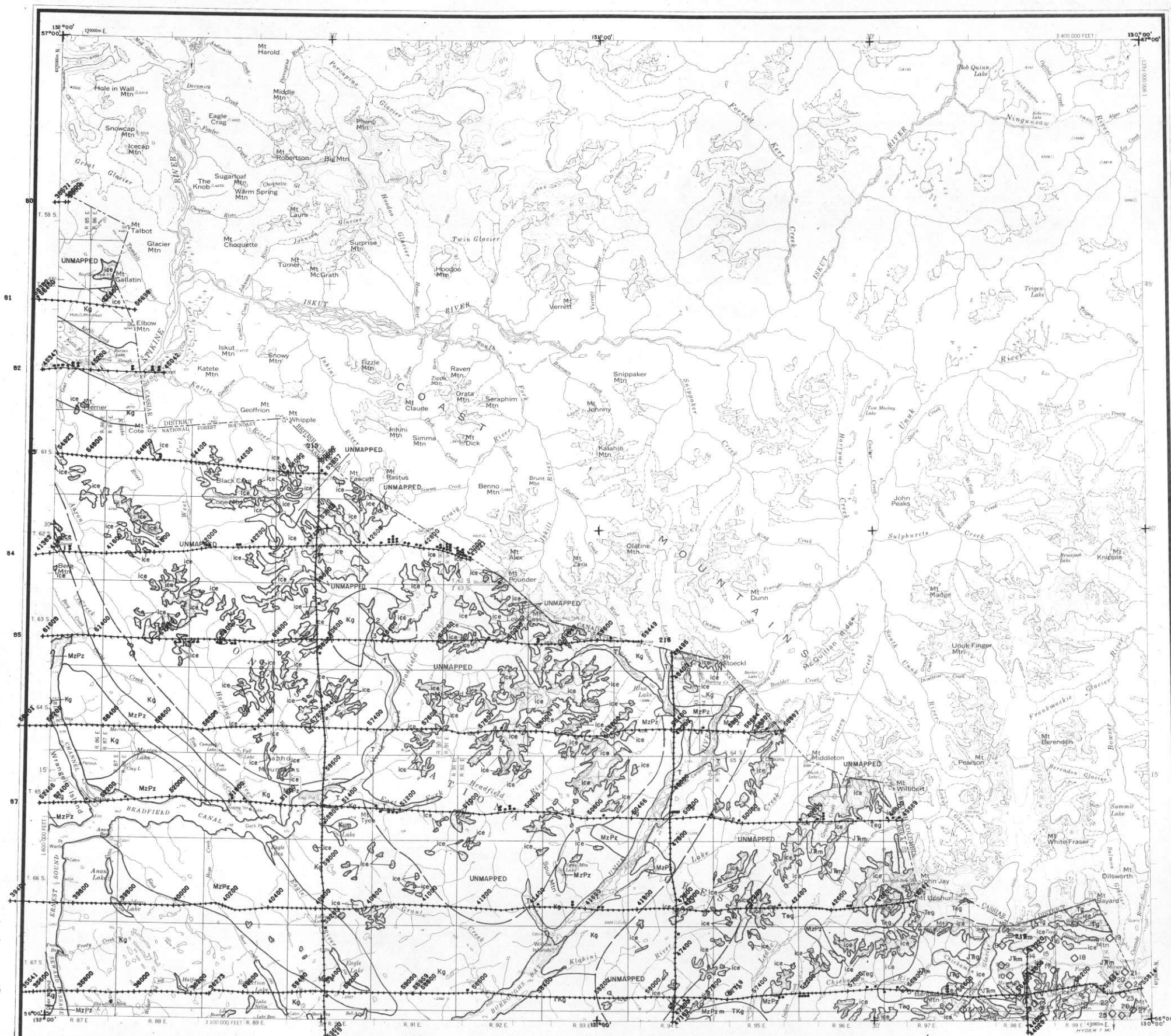
--- CONTACT, DASHED WHERE INFERRED OR CONCEALED

- - - FAULT, DASHED WHERE INFERRED OR CONCEALED

○ 39, X 48, □ 171, 145 METALLIC MINERAL OCCURRENCE IDENTIFIED IN REPORT

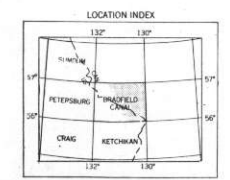
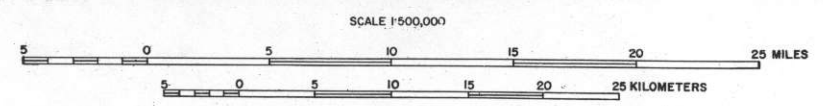
SOURCE PUBLICATION MF-418, MAP SERIES MR SERIES MR 32 TO 69

ICE - [ice]; WATER - [water]; UNMAPPED AREAS - UNMAPPED



BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

GEOLOGIC SOURCE INDEX



**EXPLANATION**  
INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES. AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER.  
TRAVERSE LINE DEVIATIONS ARE INDICATED BY SOLID CIRCLES AND THE LINES BY SQUARES. NORTH OR EAST ARE POSITIVE AND SOUTH OR WEST ARE NEGATIVE.

USGS PUB. A. (MF-673) 1:100,000  
B. GEOLOGIC MAP OF THE KETCHIKAN D-1 AND BRADFIELD CANAL A-1 QUADRANGLES, S.E. ALASKA, BULLETIN 1425, PLATE 1, 1:63,360  
C. LANDSAT IMAGERY 1:250,000

**NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY**  
**BRADFIELD CANAL, ALASKA**  
**ANOMALY MAP - URANIUM / THORIUM**  
1976 - 1978  
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
PREPARED FOR  
DEPARTMENT OF ENERGY



# BRADFIELD CANAL

## LEGEND

### STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS MAINLY MARINE, IN PART METAMORPHOSED

- CENOZOIC**
  - T TERTIARY ROCKS
- MESOZOIC**
  - IK LOWER CRETACEOUS ROCKS
  - KJ LOWER CRETACEOUS AND UPPER JURASSIC (?) ROCKS
  - R TRIASSIC ROCKS
  - MzPz MESOZOIC AND PALEOZOIC ROCKS
- PALEOZOIC**
  - P PERMIAN ROCKS
  - D DEVONIAN ROCKS
  - S SILURIAN ROCKS
  - SO SILURIAN AND ORDOVICIAN ROCKS

### VOLCANIC ROCKS

- CENOZOIC**
  - Qv QUATERNARY VOLCANIC ROCKS
  - Tv TERTIARY VOLCANIC ROCKS
- MESOZOIC**
  - Kv CRETACEOUS VOLCANIC ROCKS
  - KJv CRETACEOUS AND JURASSIC VOLCANIC ROCKS
- PALEOZOIC**
  - MzPzv MESOZOIC AND PALEOZOIC VOLCANIC ROCKS
  - Dv DEVONIAN VOLCANIC ROCKS

### FELSIC ROCKS

- CENOZOIC**
  - Tg TERTIARY GRANITIC ROCKS
  - Teg EOCENE GRANITIC ROCKS
  - TKg TERTIARY AND CRETACEOUS GRANITIC ROCKS
- MESOZOIC**
  - Kg CRETACEOUS GRANITIC ROCKS
  - JRg JURASSIC OR TRIASSIC GRANITIC ROCKS
- NO AGE SPECIFIED**
  - g GRANITIC ROCKS OF UNKNOWN AGE

### MAFIC ROCKS

- CENOZOIC**
  - Tmi TERTIARY MAFIC ROCKS
- MESOZOIC**
  - Kmi CRETACEOUS MAFIC ROCKS

### ULTRA MAFIC ROCKS

- MESOZOIC**
  - Kum CRETACEOUS ULTRAMAFIC ROCKS

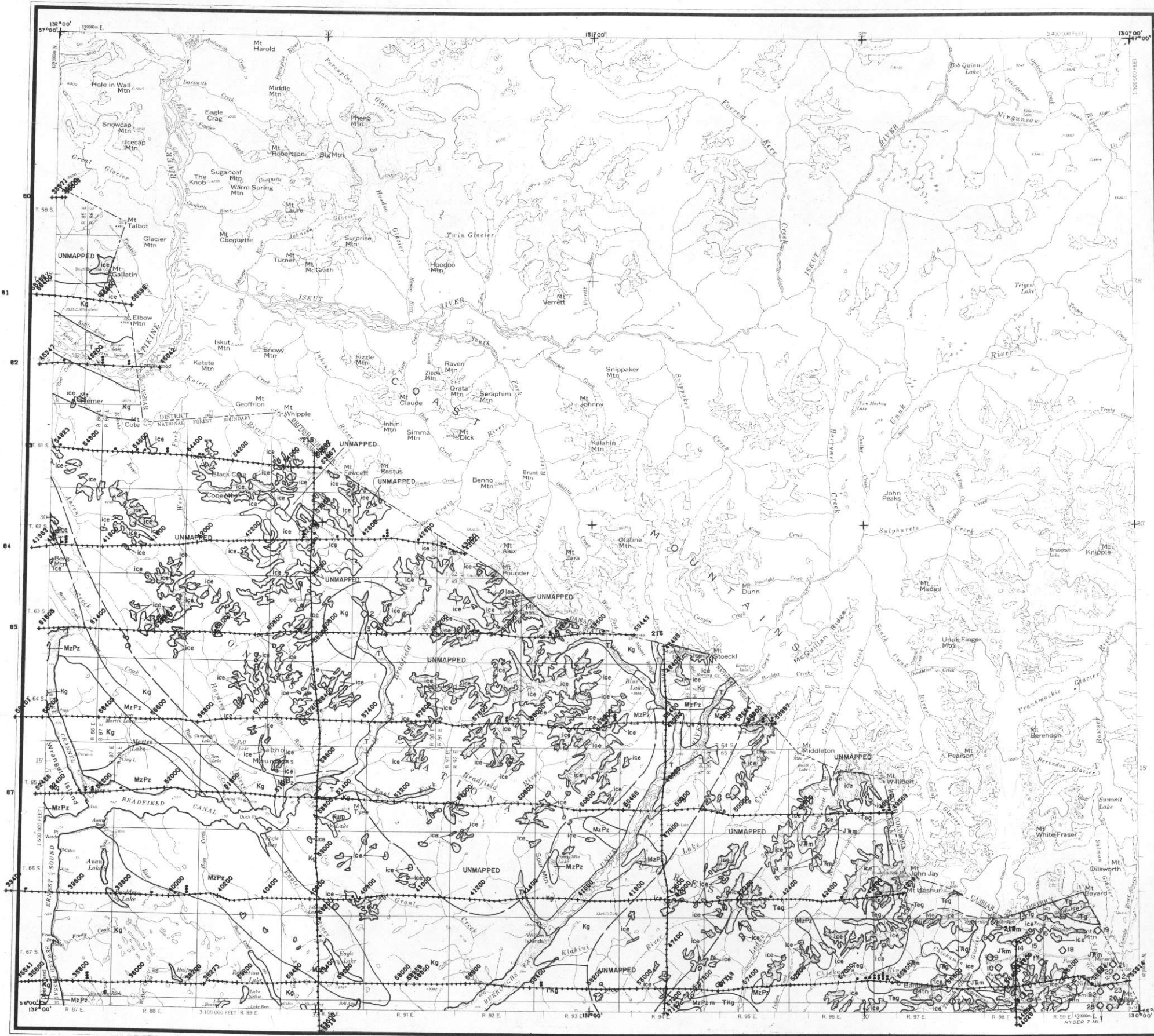
### METAMORPHIC ROCKS

- MESOZOIC**
  - JRm JURASSIC OR TRIASSIC METAMORPHIC ROCKS

- CONTACT, DASHED WHERE INFERRED OR CONCEALED
- - - FAULT, DASHED WHERE INFERRED OR CONCEALED
- 39, X 48, □ 171, 145 METALLIC MINERAL OCCURRENCE IDENTIFIED IN REPORT

SOURCE PUBLICATION MF-418, MAP SERIES MR SERIES MR 32 TO 69

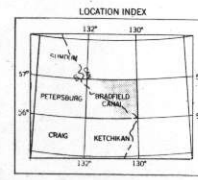
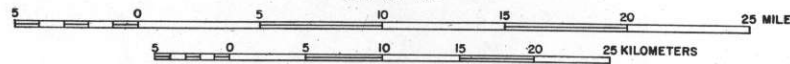
ICE - [ice]; WATER - [water]; UNMAPPED AREAS - UNMAPPED



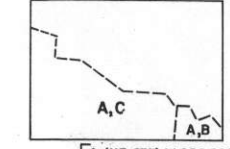
BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

GEOLOGIC SOURCE INDEX

SCALE 1:500,000



**EXPLANATION**  
INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.  
AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER.  
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A. (MF-673) 1:4,000,000  
B. GEOLOGIC MAP OF THE KETCHIKAN D-1 AND BRADFIELD CANAL A-1 QUADRANGLES, S.E. ALASKA, BULLETIN 1425, PLATE 1, 1:63,360  
C. LANDSAT IMAGERY 1:250,000

NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY  
**BRADFIELD CANAL, ALASKA**  
ANOMALY MAP - URANIUM / POTASSIUM 1976-1978  
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
PREPARED FOR DEPARTMENT OF ENERGY

# BRADFIELD CANAL

## LEGEND

### STRATIFIED SEDIMENTARY AND VOLCANIC ROCKS MAINLY MARINE, IN PART METAMORPHOSED

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  - KJ LOWER CRETACEOUS AND UPPER JURASSIC (?) ROCKS
  - R TRIASSIC ROCKS
- PALEOZOIC**
  - MzPz MESOZOIC AND PALEOZOIC ROCKS
  - P PERMIAN ROCKS
  - D DEVONIAN ROCKS
  - S SILURIAN ROCKS
  - SO SILURIAN AND ORDOVICIAN ROCKS

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  - Kg CRETACEOUS GRANITIC ROCKS
  - JRg JURASSIC OR TRIASSIC GRANITIC ROCKS
- NO. AGE SPECIFIED**
  - g GRANITIC ROCKS OF UNKNOWN AGE

### MAFIC ROCKS

- CENOZOIC**
  - Tmi TERTIARY MAFIC ROCKS
- MESOZOIC**
  - Kmi CRETACEOUS MAFIC ROCKS

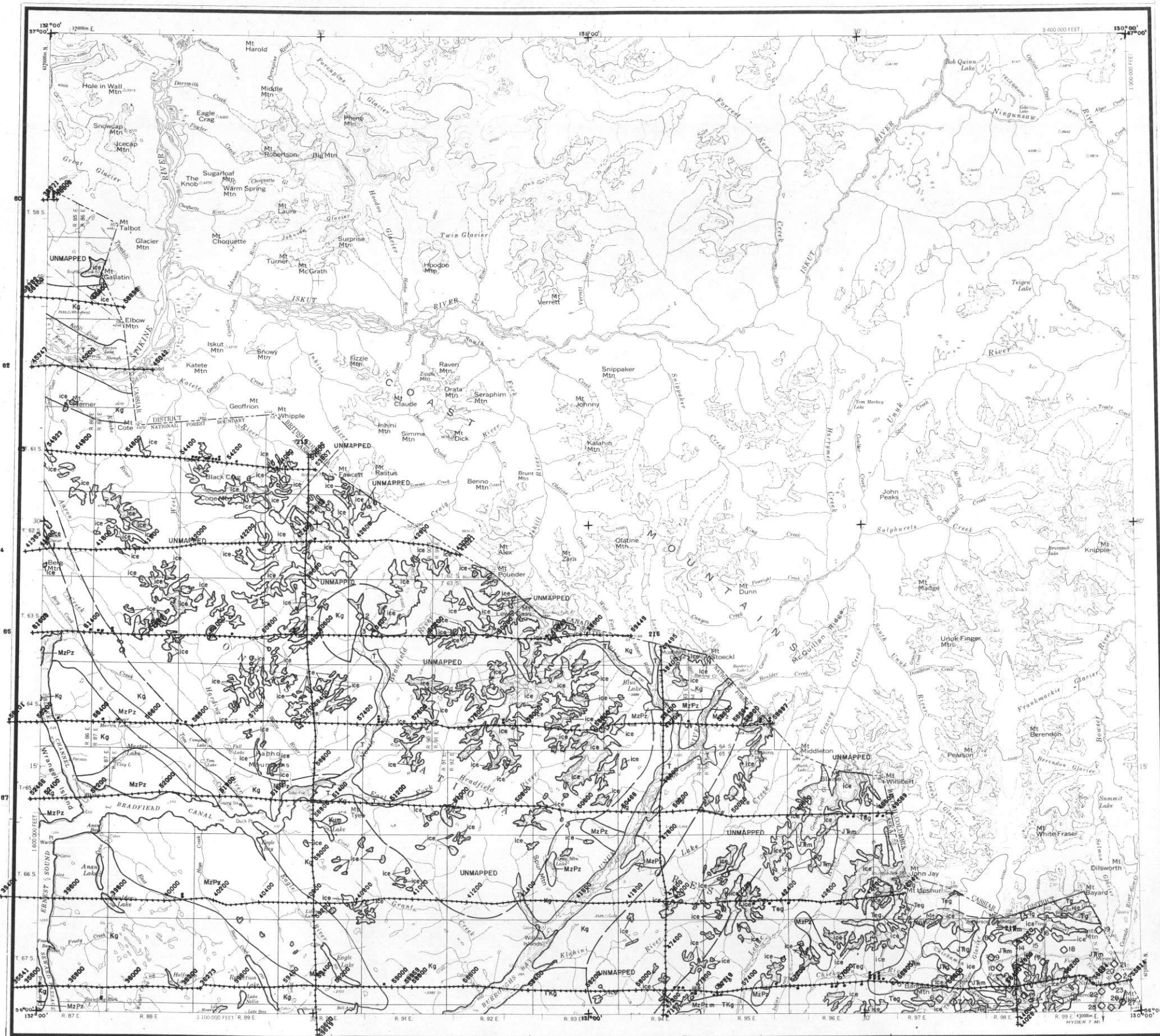
### ULTRA MAFIC ROCKS

- MESOZOIC**
  - Kum CRETACEOUS ULTRAMAFIC ROCKS

### METAMORPHIC ROCKS

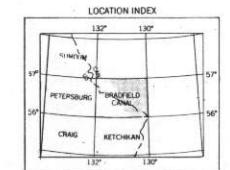
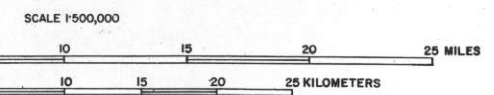
- MESOZOIC**
  - JRm JURASSIC OR TRIASSIC METAMORPHIC ROCKS

- CONTACT, DASHED WHERE INFERRED OR CONCEALED
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- SOURCE PUBLICATION MF-418, MAP SERIES MR SERIES MR 32 TO 69
- ICE - [ice]; WATER - [water]; UNMAPPED AREAS - UNMAPPED



BASE MAP SOURCE: PUBLISHED N.T.M.S. 1:250,000

GEOLOGIC SOURCE INDEX

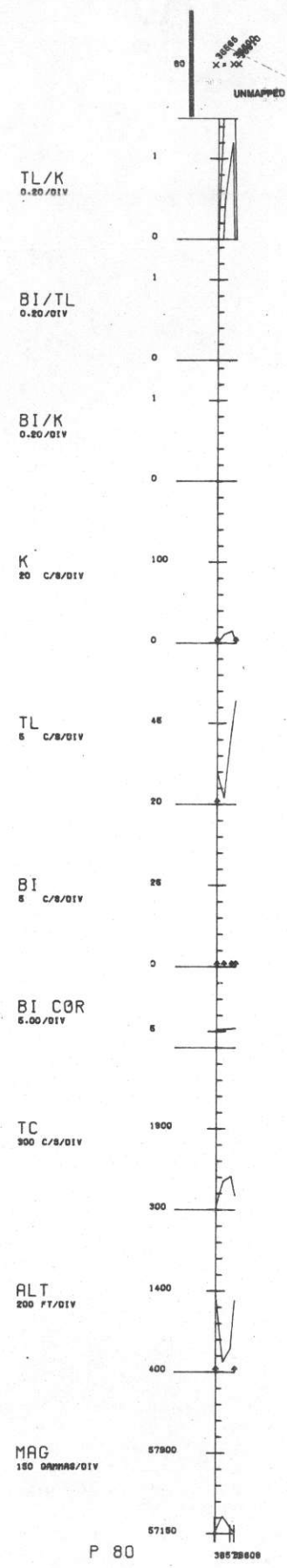


**EXPLANATION**  
INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES. AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER. TRAVERSE LINE DEVIATIONS ARE INDICATED BY SOLID CIRCLES AND THE LINES BY SQUARES. NORTH OR EAST ARE POSITIVE AND SOUTH OR WEST ARE NEGATIVE.

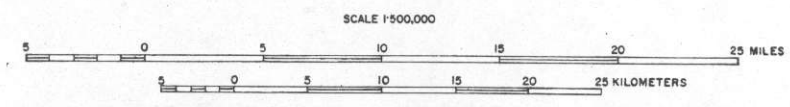
USGS PUB.

A. (MF-673) 1:1,000,000  
B. GEOLOGIC MAP OF THE KETCHIKAN D-1 AND BRADFIELD CANAL A-1 QUADRANGLES, S.E. ALASKA, BULLETIN 1425, PLATE 1, 1:63,360  
C. LANDSAT IMAGES 1:250,000

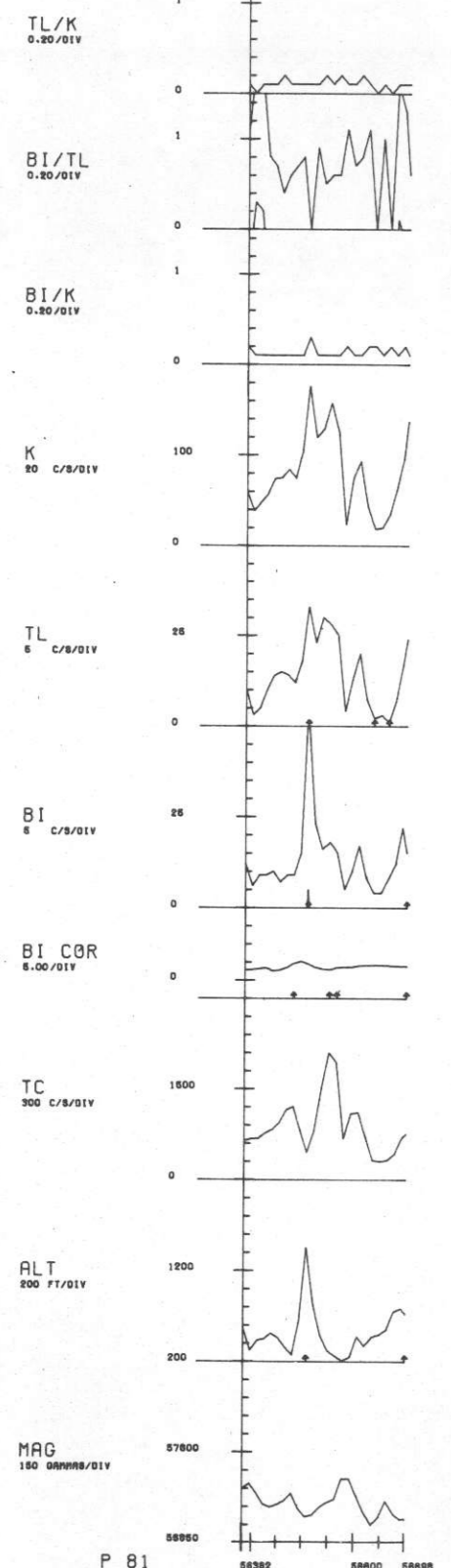
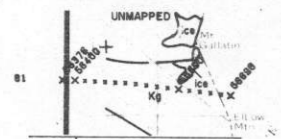
**NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY**  
**BRADFIELD CANAL, ALASKA**  
**ANOMALY MAP - THORIUM/POTASSIUM**  
1976 - 1978  
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
PREPARED FOR  
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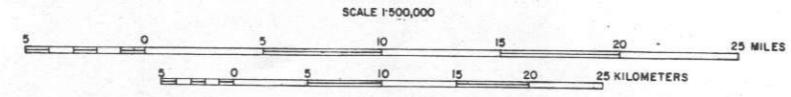
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 STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC  
 RECONNAISSANCE SURVEY  
 BRADFIELD CANAL, ALASKA  
 RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
 1976-1978  
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STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

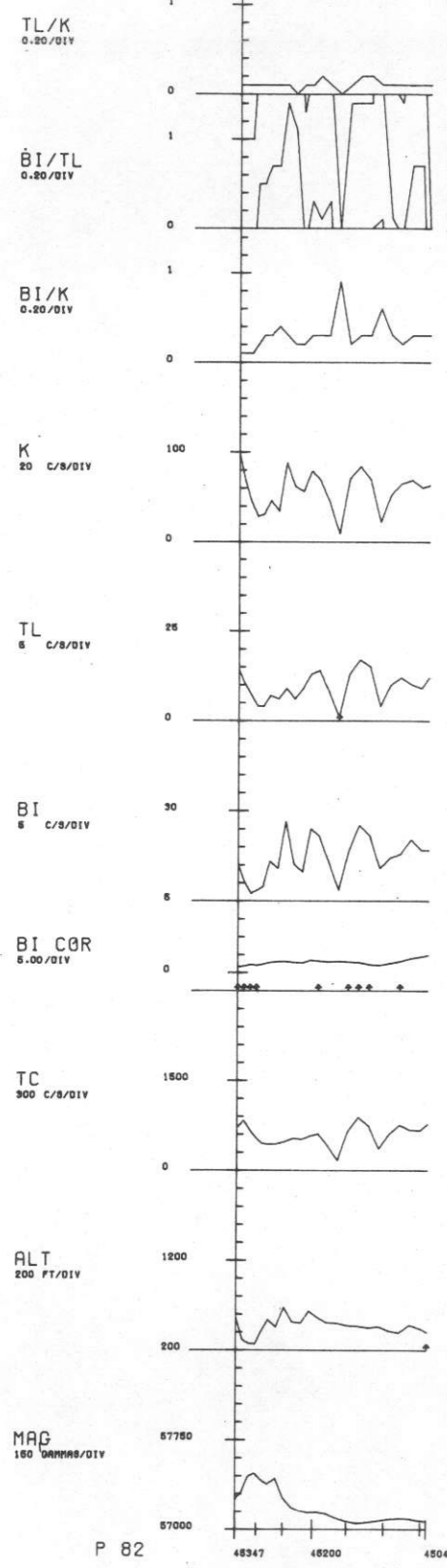
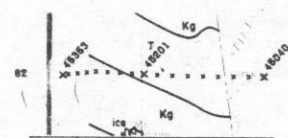
**BRADFIELD CANAL, ALASKA**

RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES

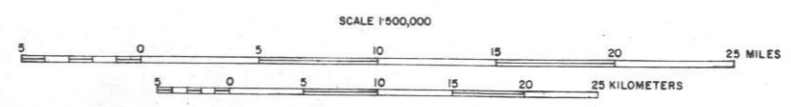
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

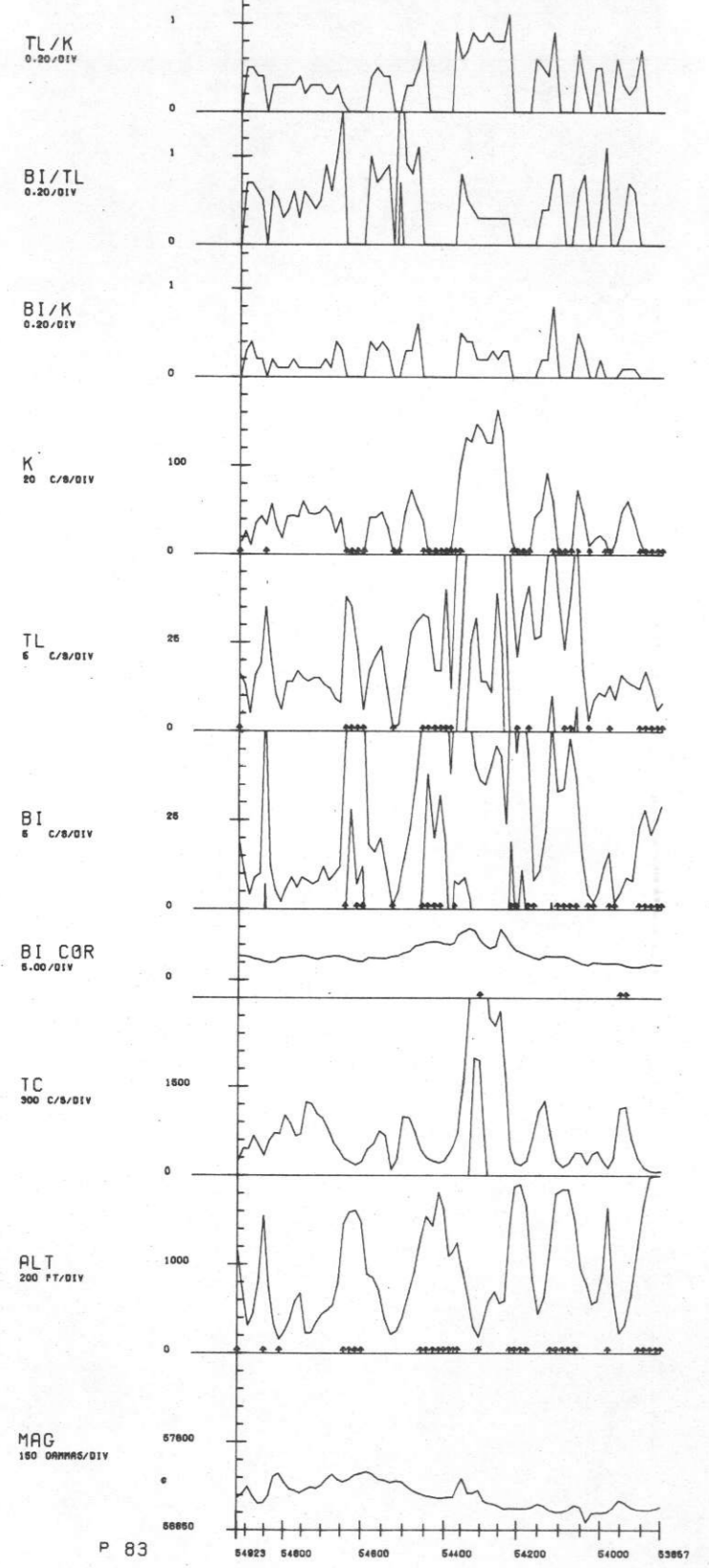
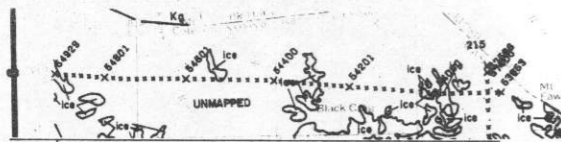
PREPARED FOR  
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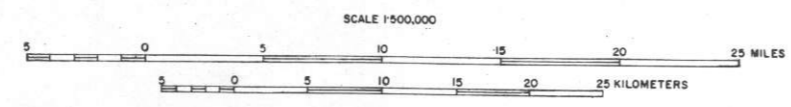


NURE AERIAL GAMMA RAY AND MAGNETIC  
 RECONNAISSANCE SURVEY  
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 RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
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↑ FLAGGED SAMPLE VALUES OF  
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STATISTICAL ADEQUACY TEST

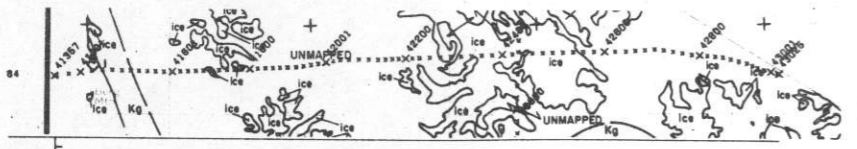


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

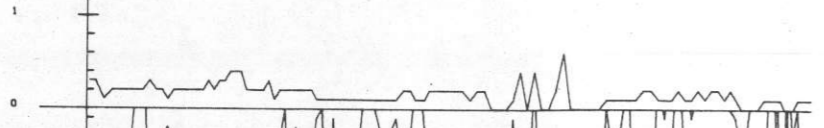
**BRADFIELD CANAL, ALASKA**  
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
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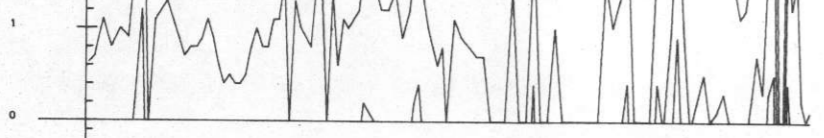
PREPARED FOR  
DEPARTMENT OF ENERGY



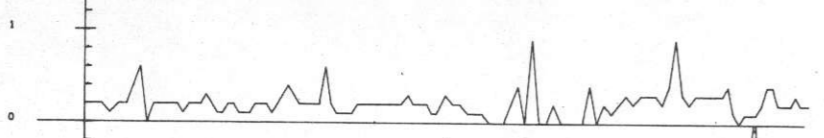
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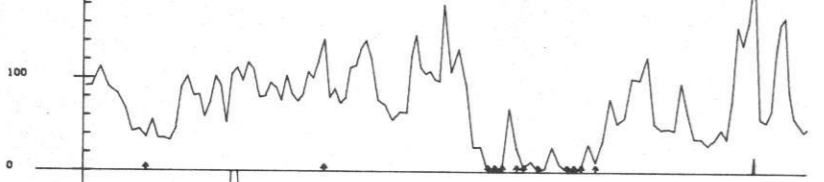
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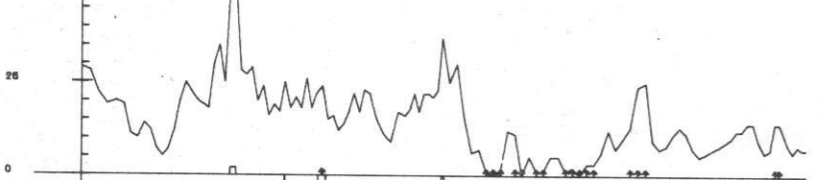
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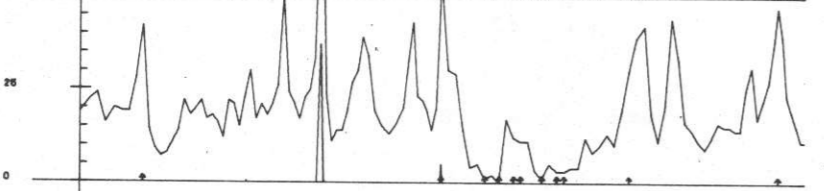
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20 C/S/DIV



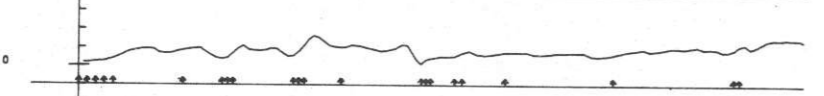
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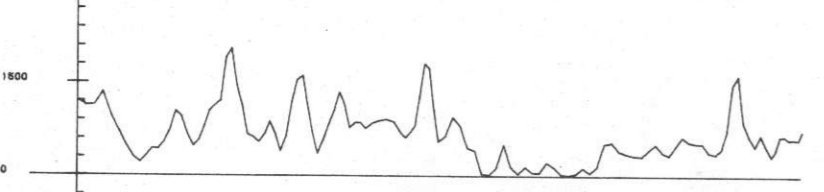
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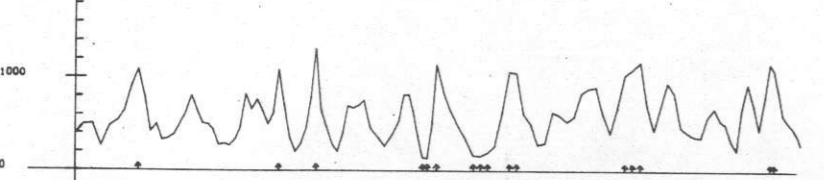
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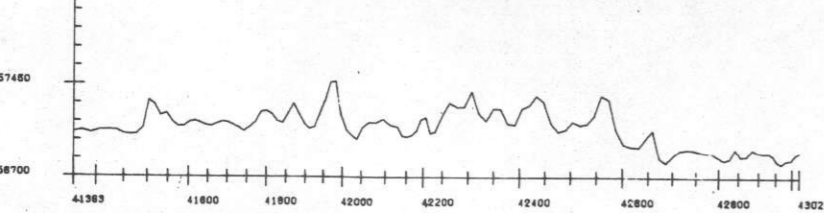
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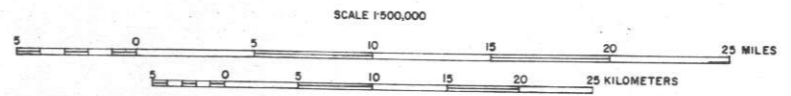


MAG  
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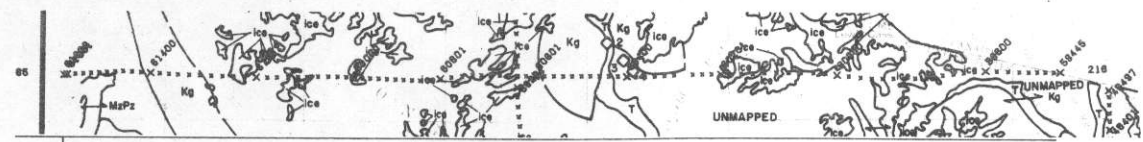


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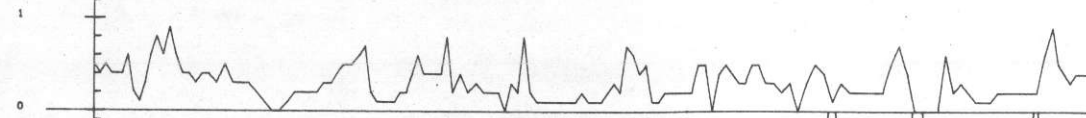
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STATISTICAL ADEQUACY TEST



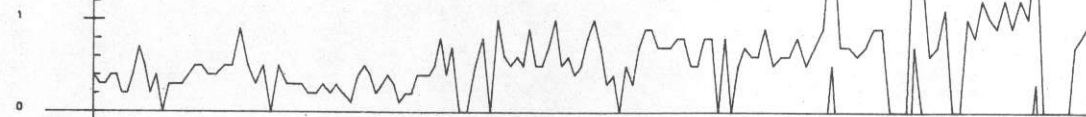
NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY  
**BRADFIELD CANAL, ALASKA**  
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
1976-1978  
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 18006  
PREPARED FOR  
DEPARTMENT OF ENERGY



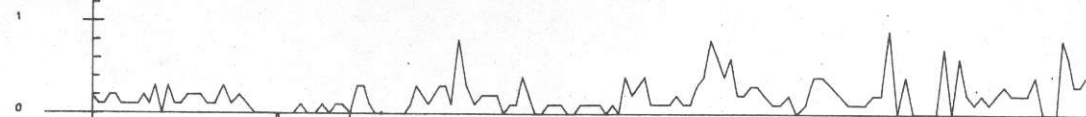
TL/K  
0.20/DIV



BI/TL  
0.20/DIV



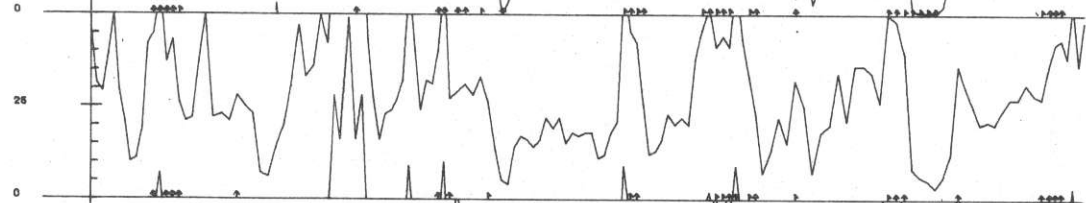
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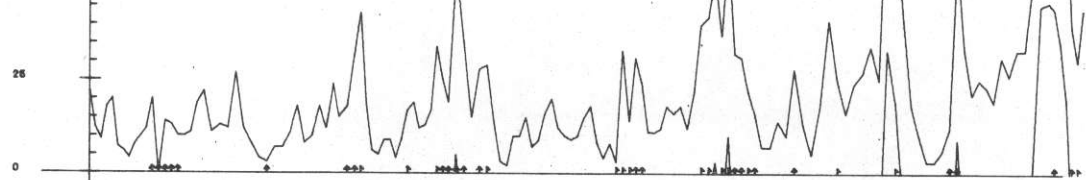
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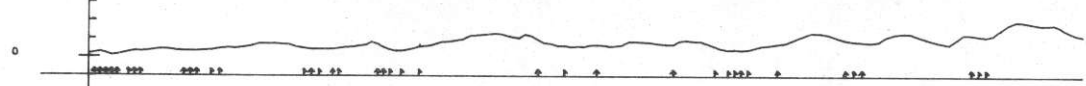
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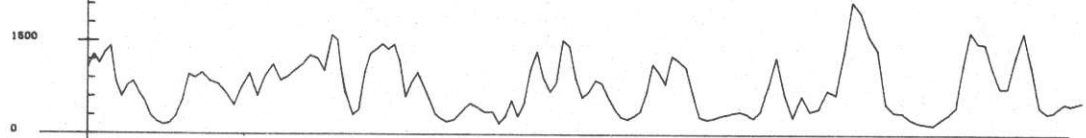
BI  
5 C/B/DIV



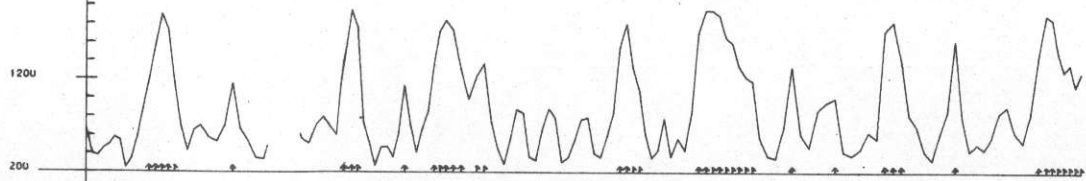
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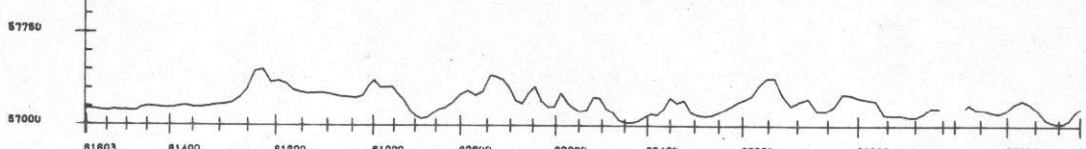
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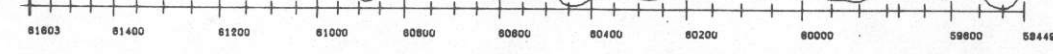
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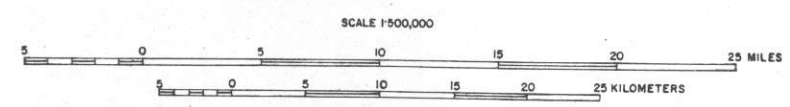
MAG  
150 GANSS/DIV



P 85



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STATISTICAL ADEQUACY TEST

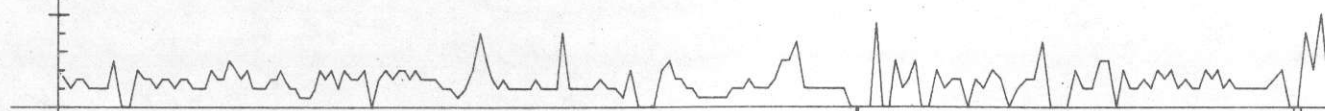


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RECONNAISSANCE SURVEY  
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DEPARTMENT OF ENERGY

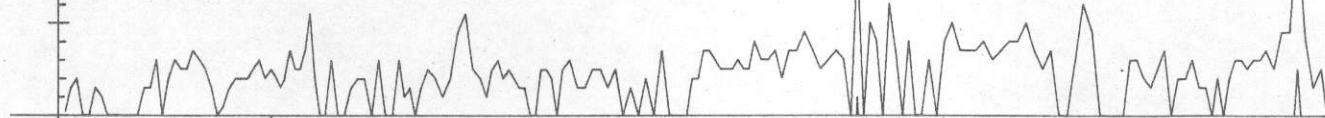




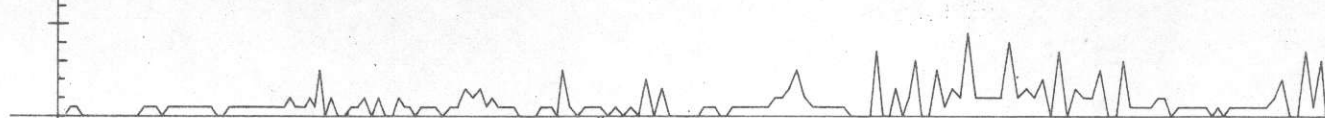
TL/K  
0.20/DIV



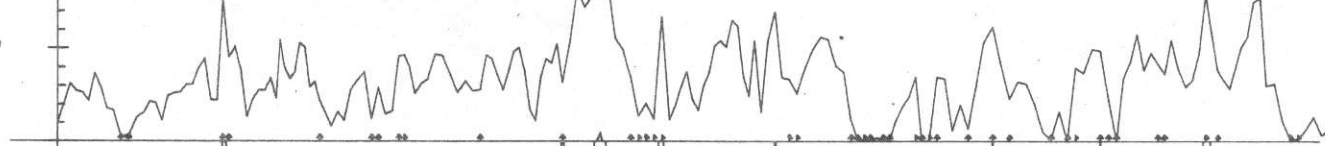
BI/TL  
0.20/DIV



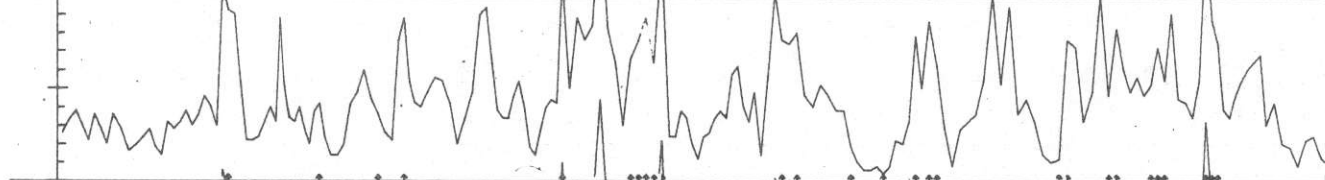
BI/K  
0.20/DIV



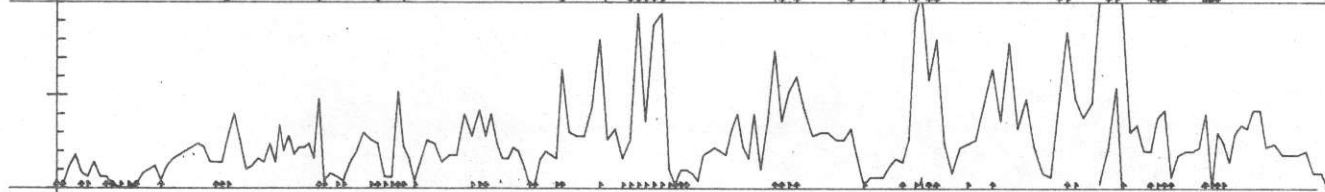
K  
20 C/S/DIV



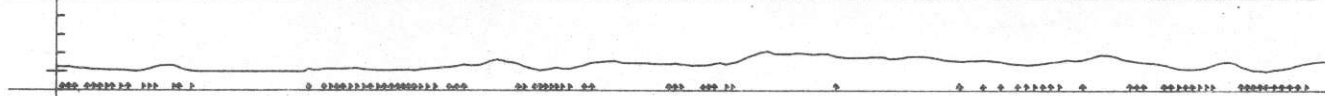
TL  
5 C/S/DIV



BI  
5 C/S/DIV



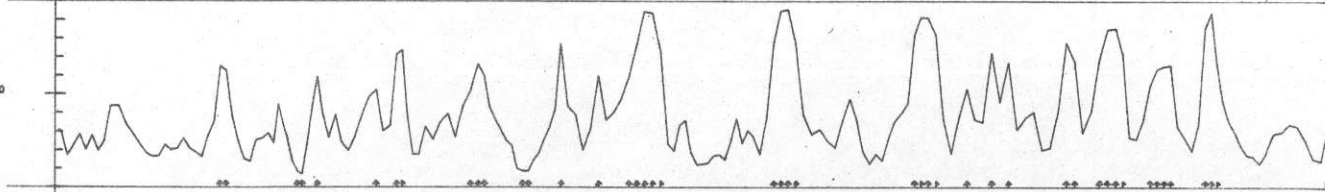
BI COR  
0.00/DIV



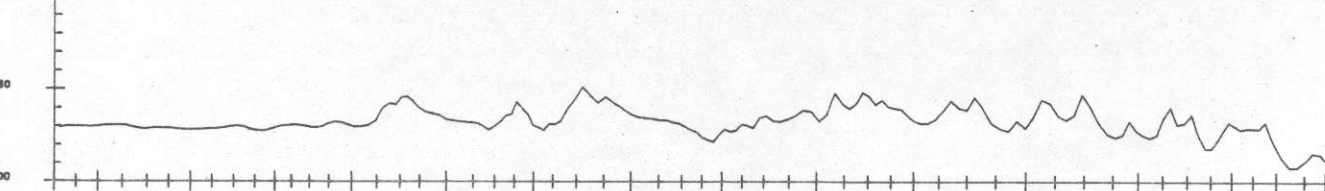
TC  
300 C/S/DIV



ALT  
200 FT/DIV

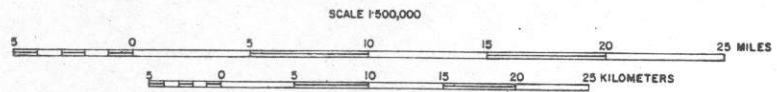


MAG  
100 GAMMAS/DIV

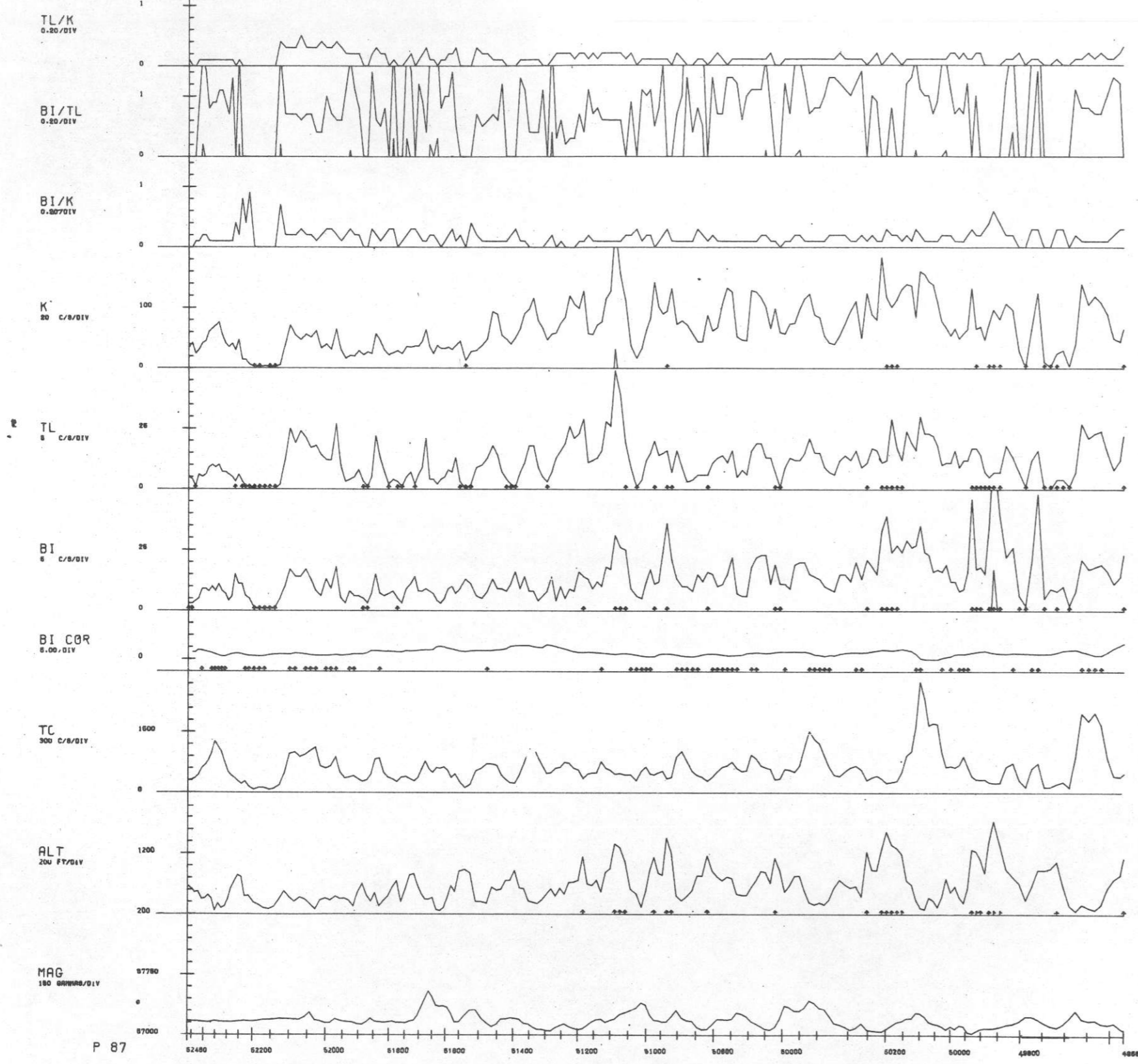


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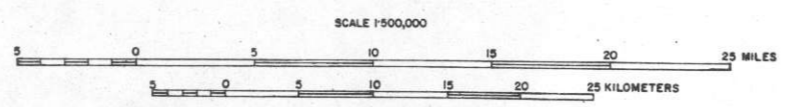
↑ FLAGGED SAMPLE VALUES OF K,U,T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY  
BRADFIELD CANAL, ALASKA  
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
1976-1978  
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
PREPARED FOR  
DEPARTMENT OF ENERGY



↑ FLAGGED SAMPLE VALUES OF  
K, T INDICATES DATA FAILED  
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

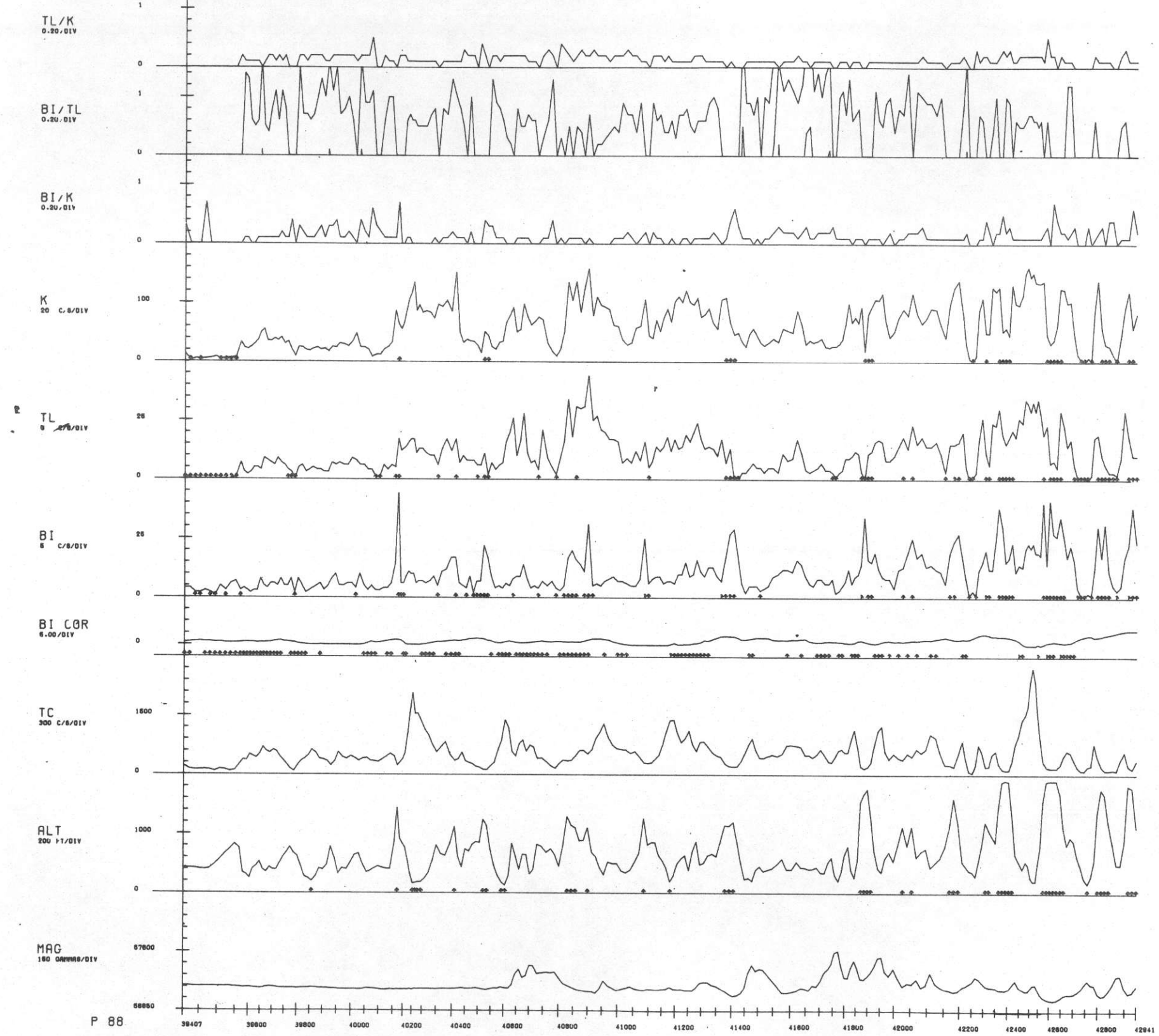
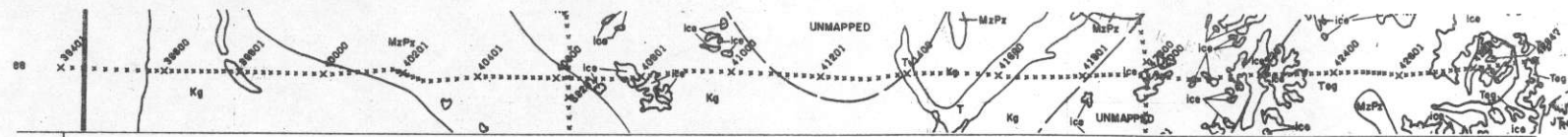
**BRADFIELD CANAL, ALASKA**

RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES

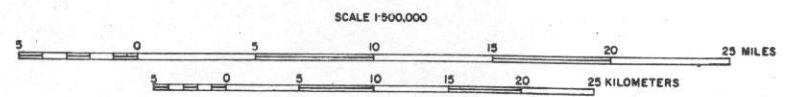
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

PREPARED FOR  
DEPARTMENT OF ENERGY

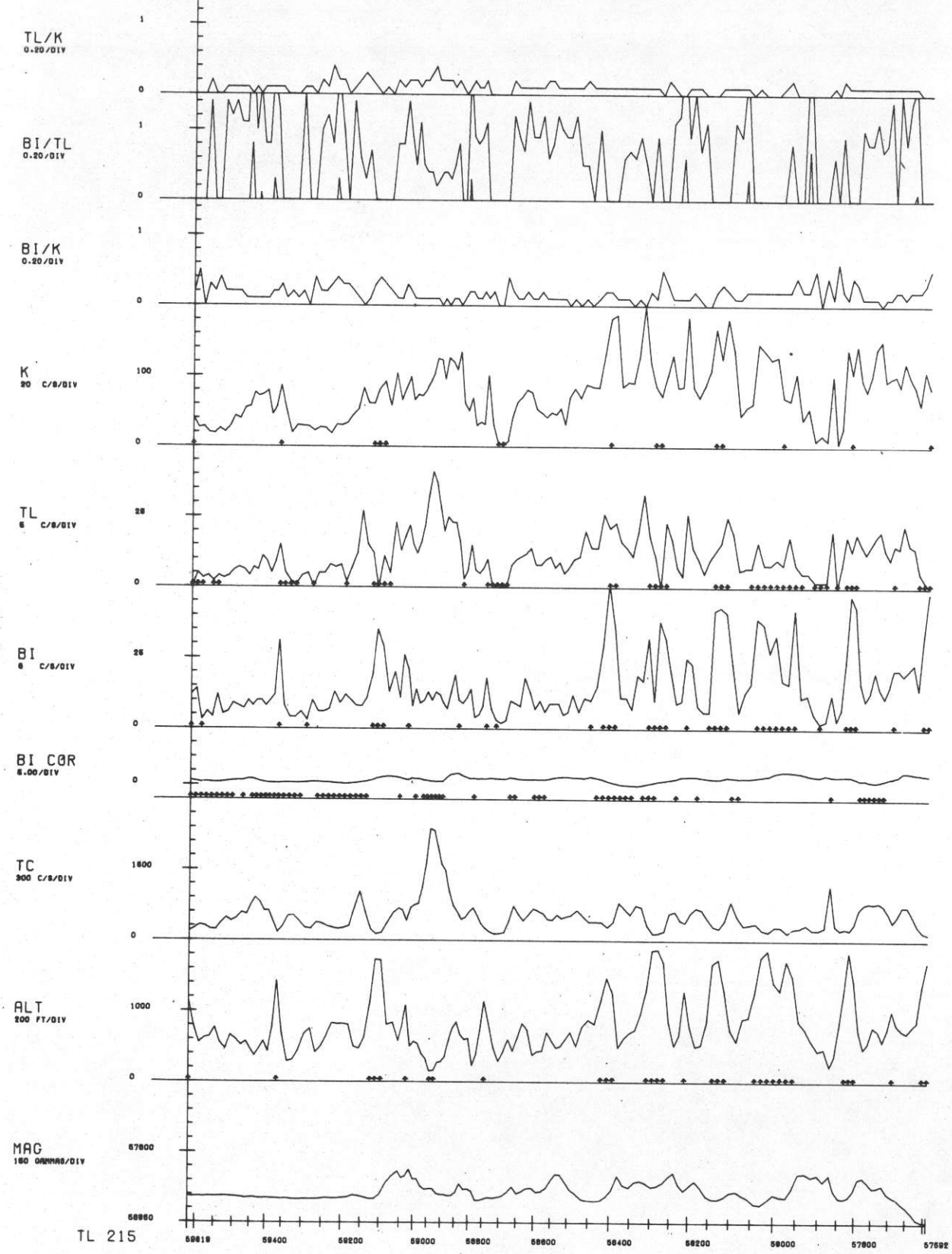
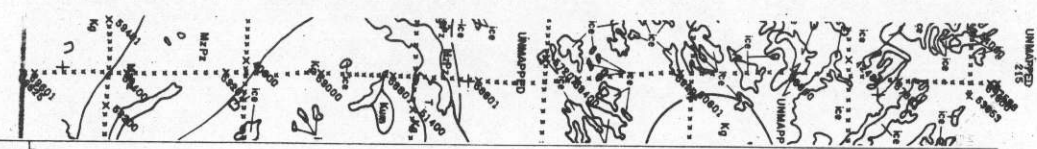


↑ FLAGGED SAMPLE VALUES OF  
K, T INDICATES DATA FAILED  
STATISTICAL ADEQUACY TEST

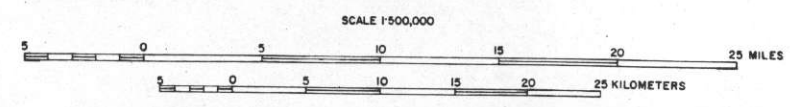


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY  
 BRADFIELD CANAL, ALASKA  
 RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
 1976-1978  
 BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
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↑ FLAGGED SAMPLE VALUES OF  
K, U, T INDICATES DATA FAILED  
STATISTICAL ADEQUACY TEST

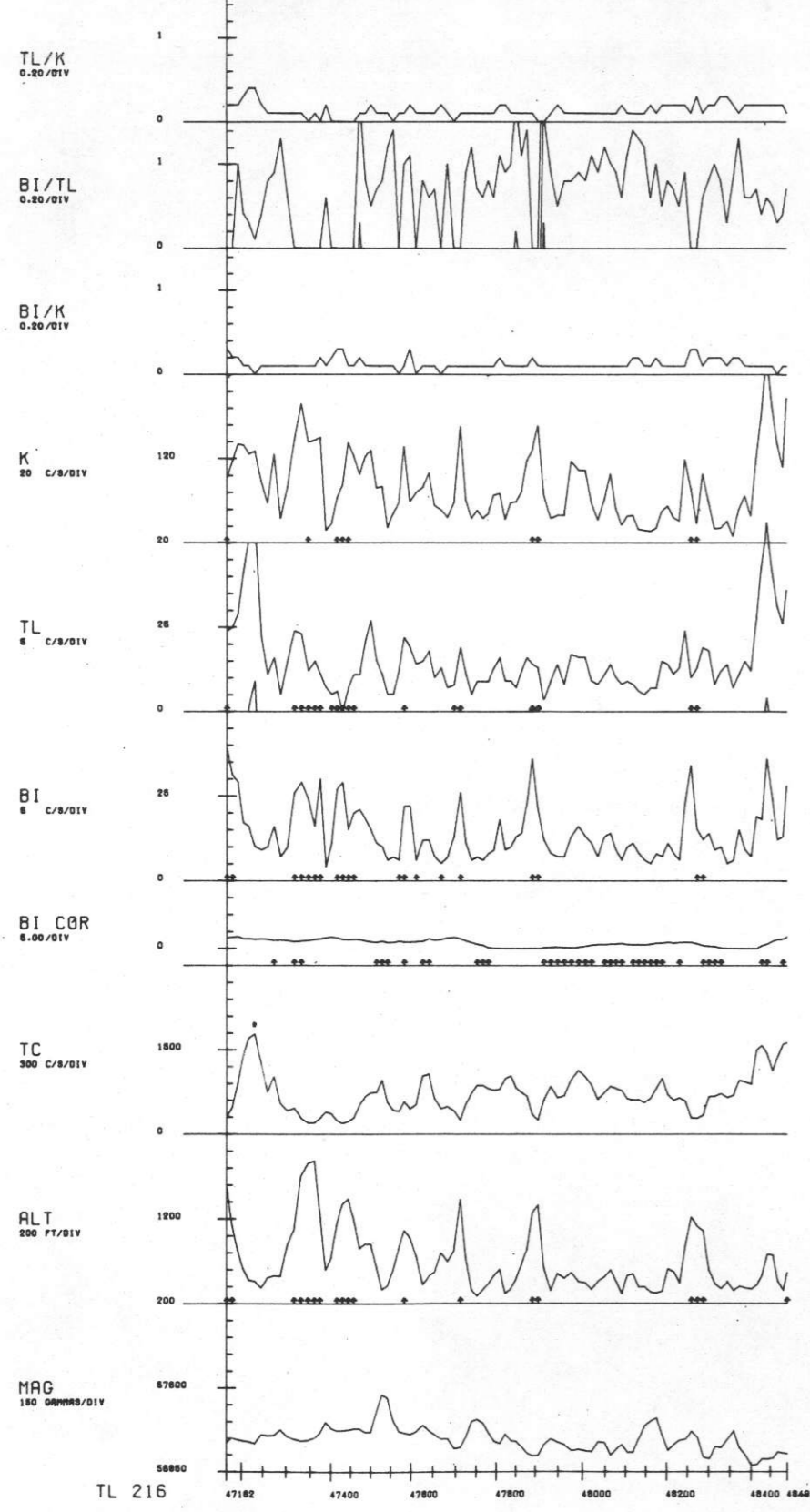
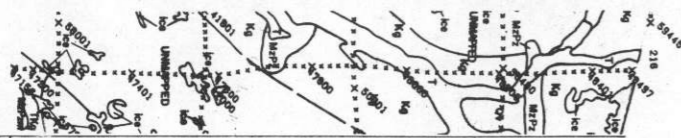


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

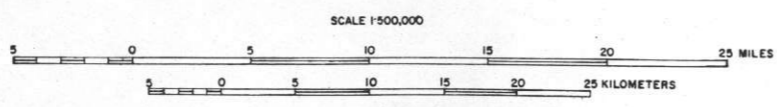
**BRADFIELD CANAL, ALASKA**  
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

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↑ FLAGGED SAMPLE VALUES OF  
K,U,T INDICATES DATA FAILED  
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

**BRADFIELD CANAL, ALASKA**

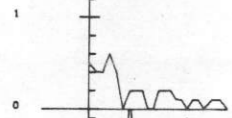
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

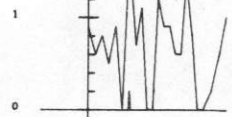
PREPARED FOR  
DEPARTMENT OF ENERGY



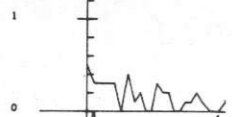
TL/K  
0.20/DIV



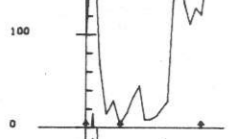
BI/TL  
0.20/DIV



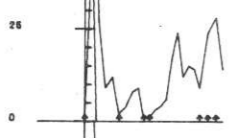
BI/K  
0.20/DIV



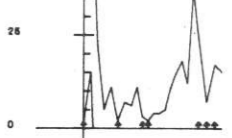
K  
20 C/B/DIV



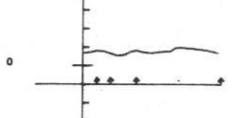
TL  
8 C/B/DIV



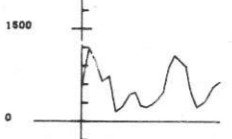
BI  
8 C/B/DIV



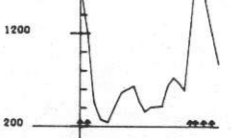
BI COR  
8.00/DIV



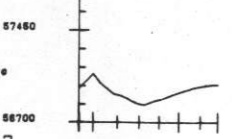
TC  
300 C/B/DIV



ALT  
200 FT/DIV

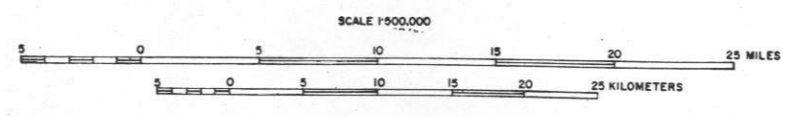


MAG  
150 GAMMAS/DIV

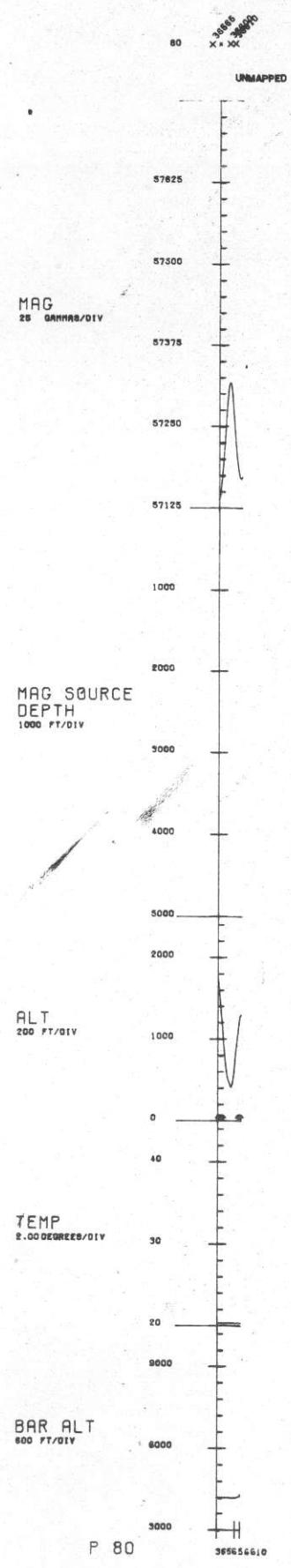


TL 217  
44026 43800 43720

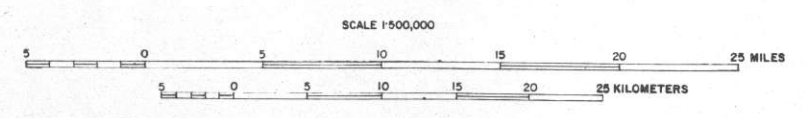
↑ FLAGGED SAMPLE VALUES OF  
K, BI, TC INDICATES DIFFERENTIAL  
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY  
**BRADFIELD CANAL, ALASKA**  
RADIOMETRIC MULTIPLE-PARAMETER STACKED PROFILES  
1976-1978  
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
PREPARED FOR  
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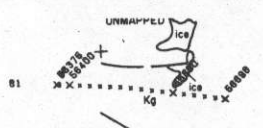


↑ EXCEEDS ALTITUDE SPECIFICATIONS

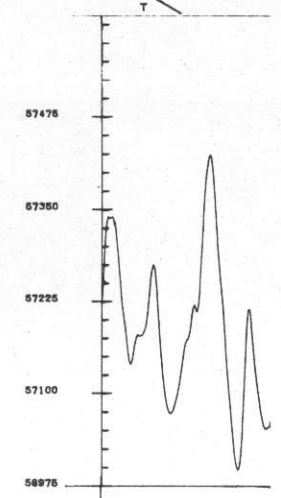


NURE AERIAL GAMMA RAY AND MAGNETIC  
 RECONNAISSANCE SURVEY  
 BRADFIELD CANAL, ALASKA  
 MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
 1976 - 1978  
 BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
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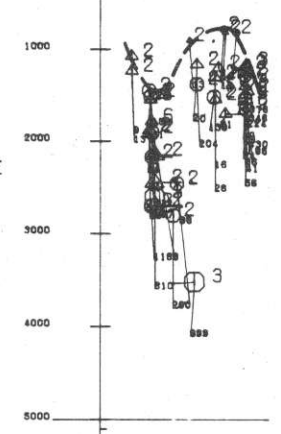




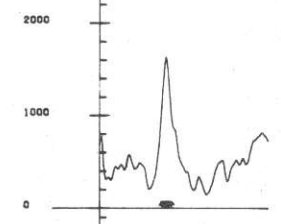
MAG  
25 GAUSS/DIV



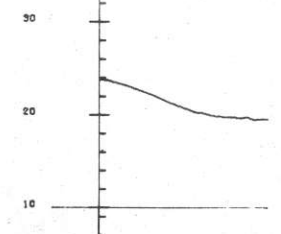
MAG SOURCE  
DEPTH  
1000 FT/DIV



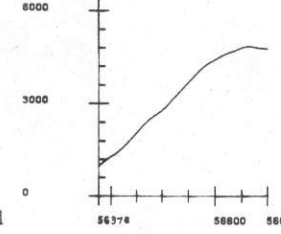
ALT  
200 FT/DIV



TEMP  
2.00 DEGREES/DIV



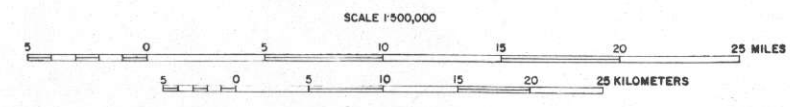
BAR ALT  
500 FT/DIV



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5637# 58800 58698

↑ EXCEEDS ALTITUDE SPECIFICATIONS

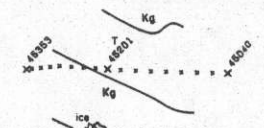
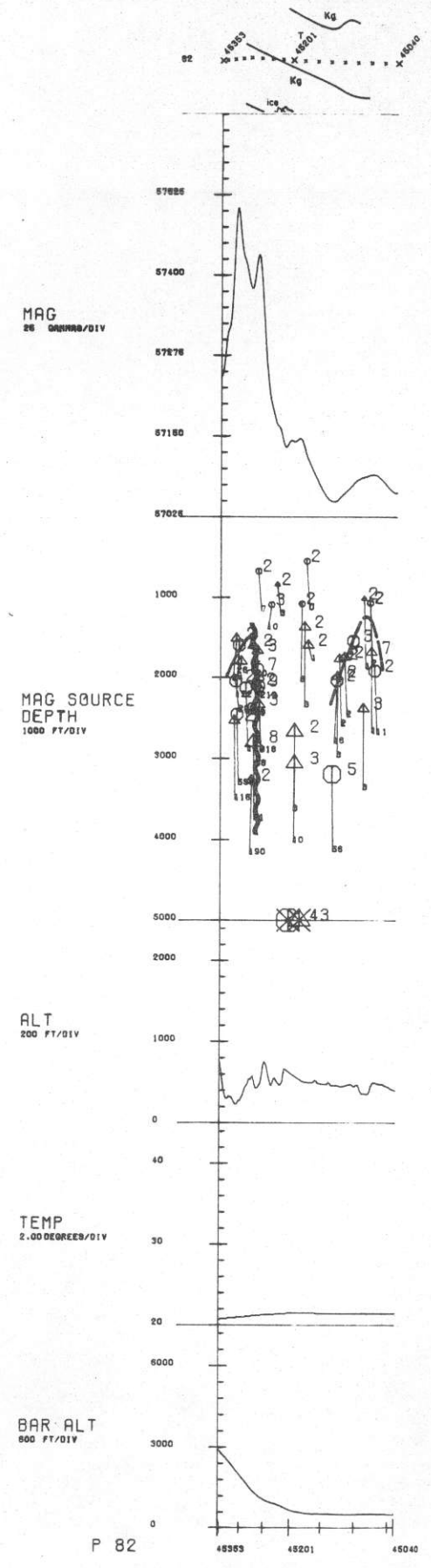


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

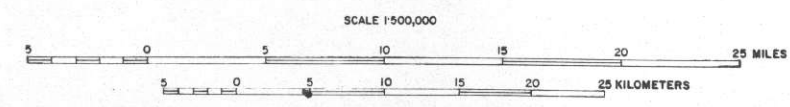
**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

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↑ EXCEEDS ALTITUDE SPECIFICATIONS



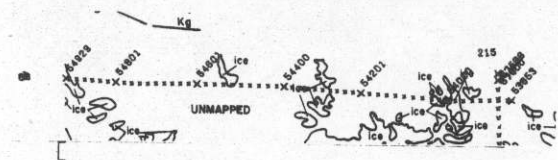
NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

BRADFIELD CANAL, ALASKA  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA

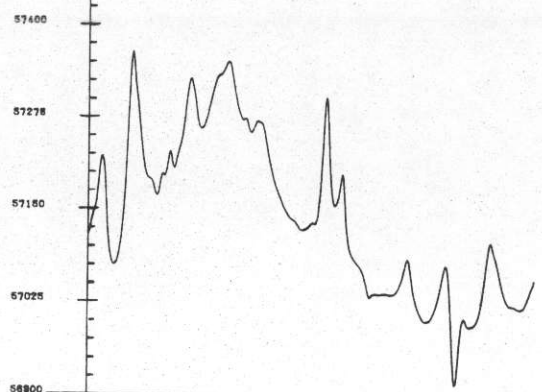
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

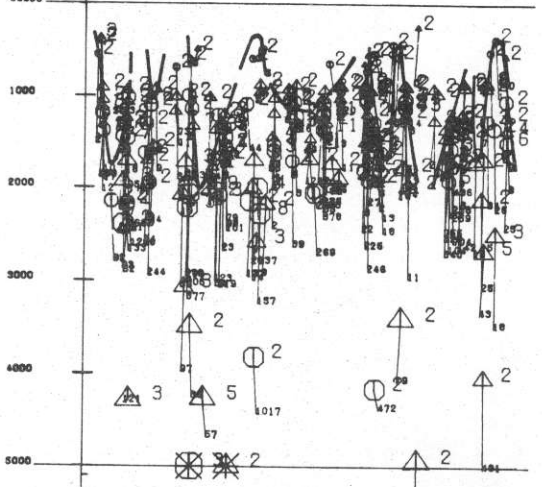
PREPARED FOR  
DEPARTMENT OF ENERGY



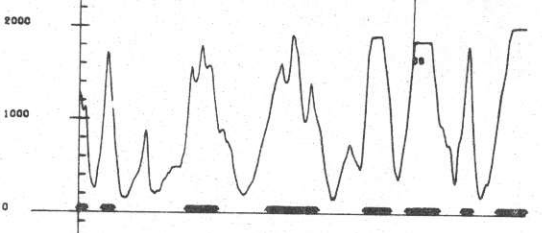
MAG  
25 GAMMAS/DIV



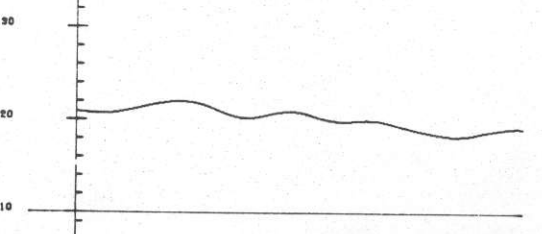
MAG SOURCE  
DEPTH  
1000 FT/DIV



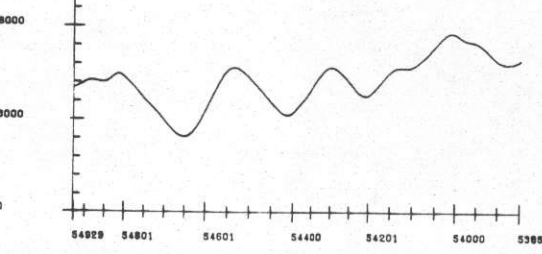
ALT  
200 FT/DIV



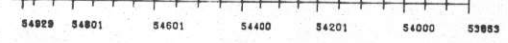
TEMP  
2.00 DEGREES/DIV



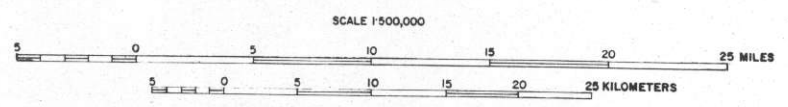
BAR ALT  
800 FT/DIV



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↑ EXCEEDS ALTITUDE SPECIFICATIONS

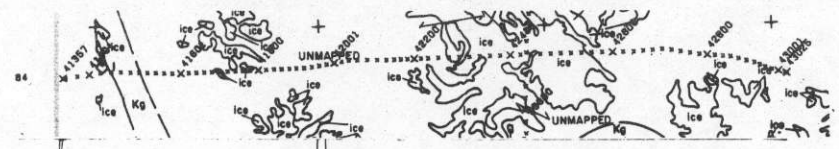


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

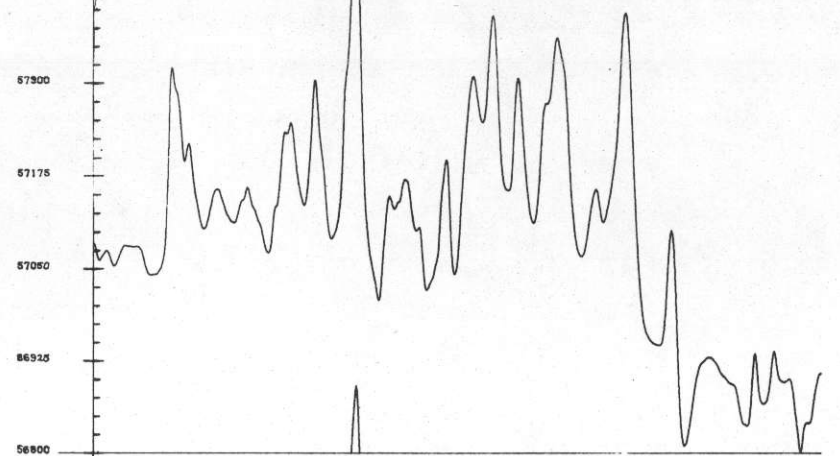
**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

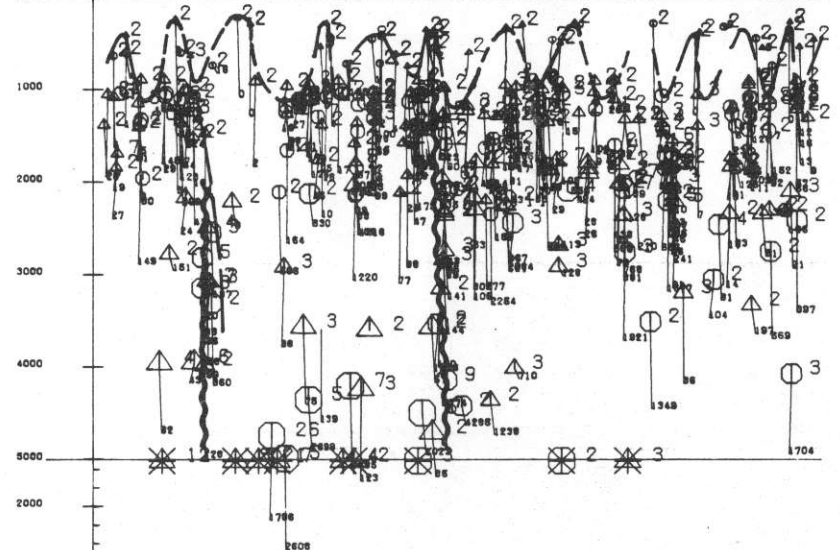
PREPARED FOR  
DEPARTMENT OF ENERGY



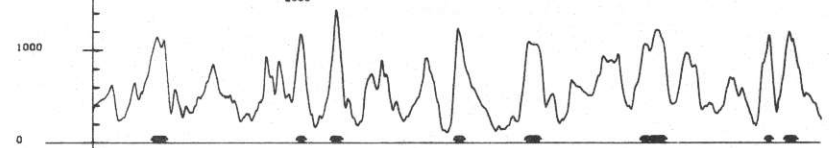
MAG  
25 GGAUSS/DIV



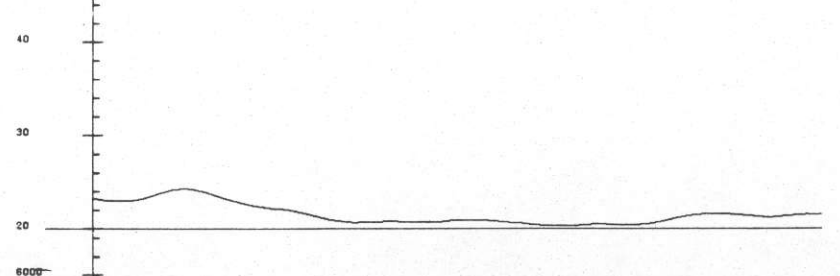
MAG SOURCE  
DEPTH  
1000 FT/DIV



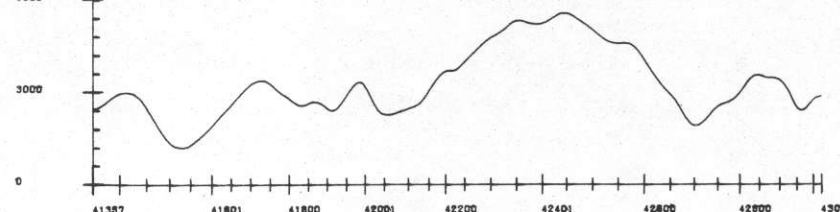
ALT  
200 FT/DIV



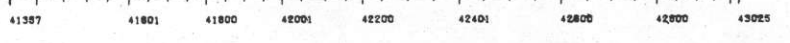
TEMP  
2.00 DEGREES/DIV



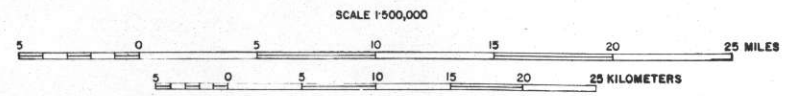
BAR ALT  
600 FT/DIV



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↑ EXCEEDS ALTITUDE SPECIFICATIONS



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

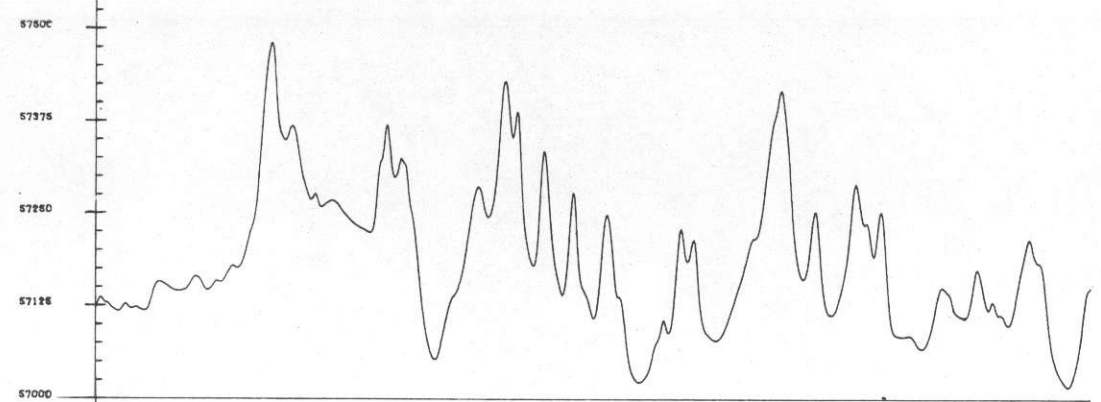
**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

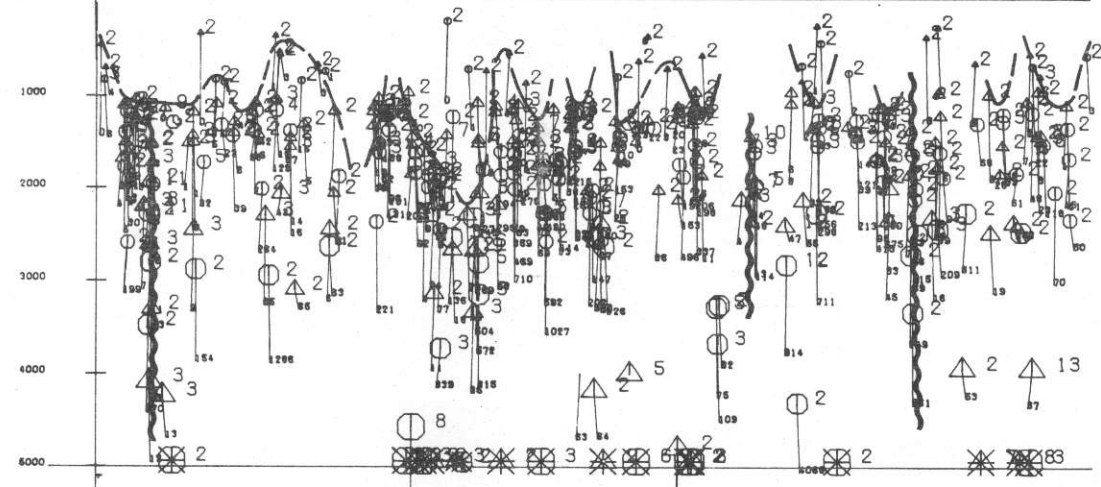
PREPARED FOR  
DEPARTMENT OF ENERGY



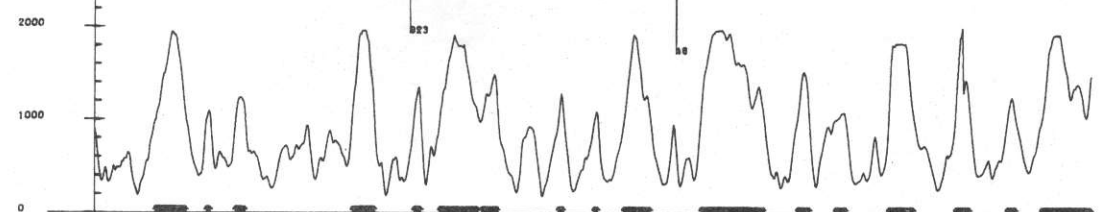
MAG  
25 GRMM/01V



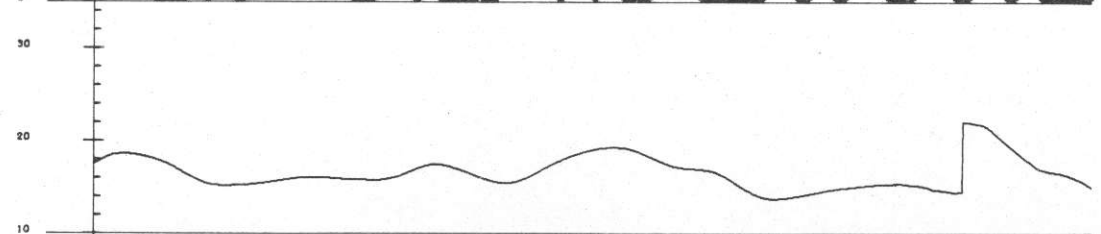
MAG SOURCE  
DEPTH  
1000 FT/01V



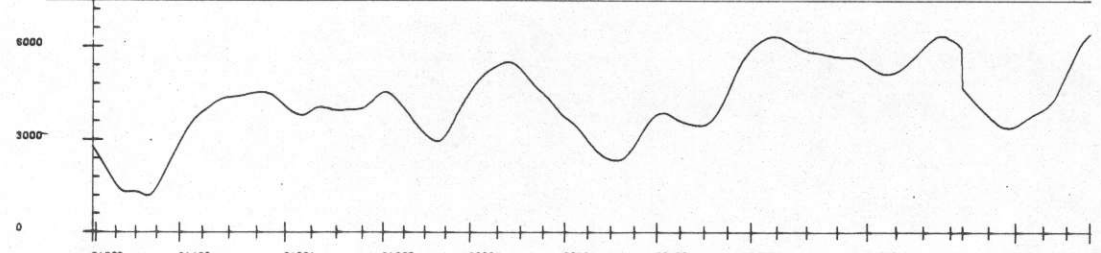
ALT  
200 FT/01V



TEMP  
2.00 DEGREES/01V

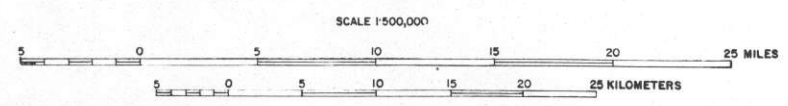


BAR ALT  
800 FT/01V



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↑ EXCEEDS ALTITUDE SPECIFICATIONS

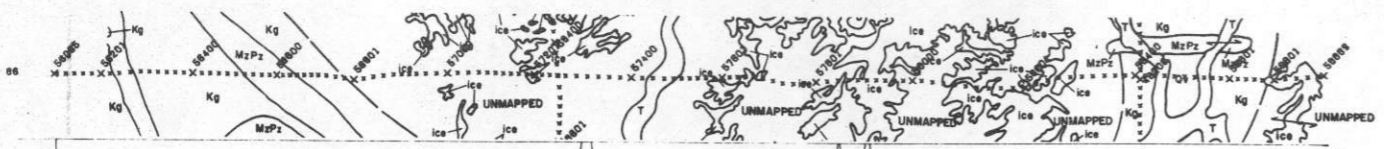


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

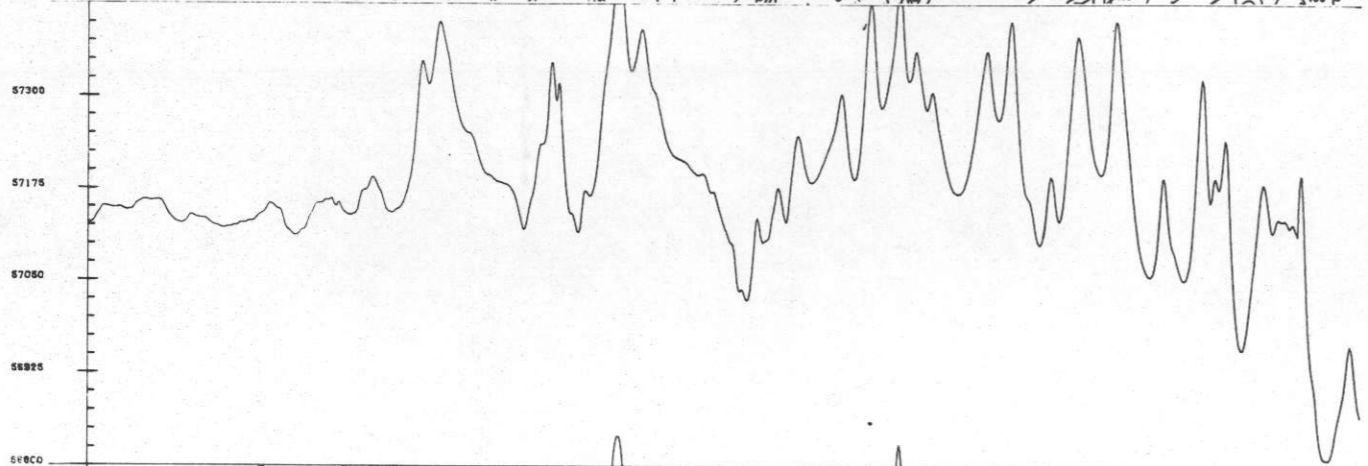
**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

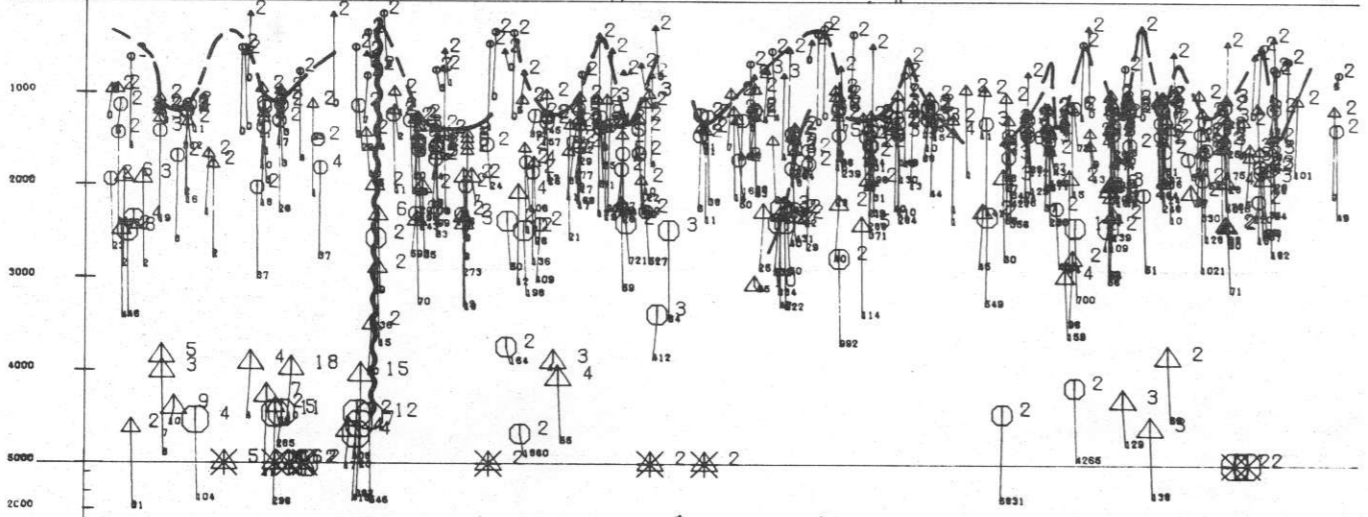
PREPARED FOR  
DEPARTMENT OF ENERGY



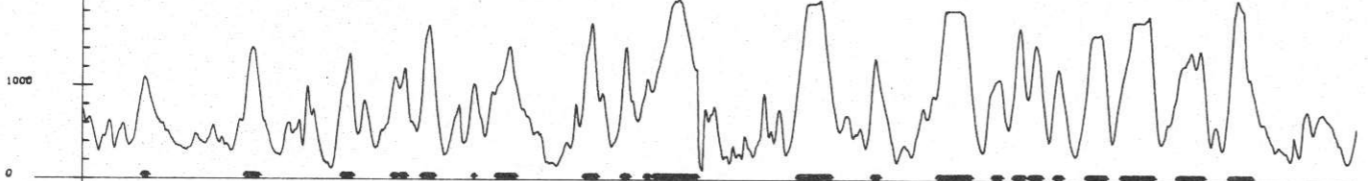
MAG  
25 GAMMAS/DIV



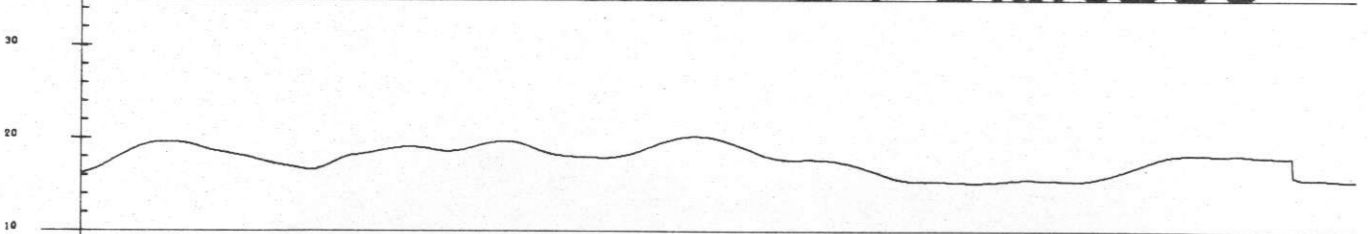
MAG SOURCE  
DEPTH  
1000 FT/DIV



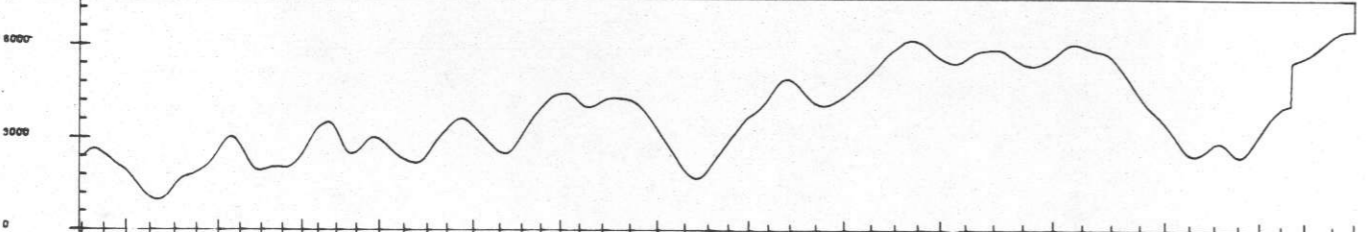
ALT  
200 FT/DIV



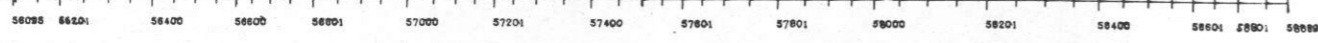
TEMP  
2.00 DEGREES/DIV



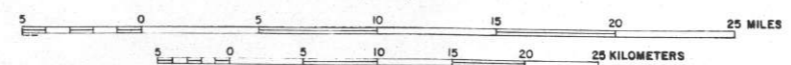
BAR ALT  
600 FT/DIV



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SCALE 1:500,000



↑ EXCEEDS ALTITUDE SPECIFICATIONS

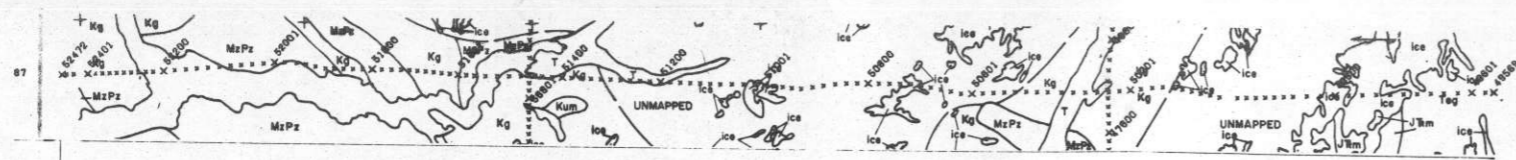
NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA

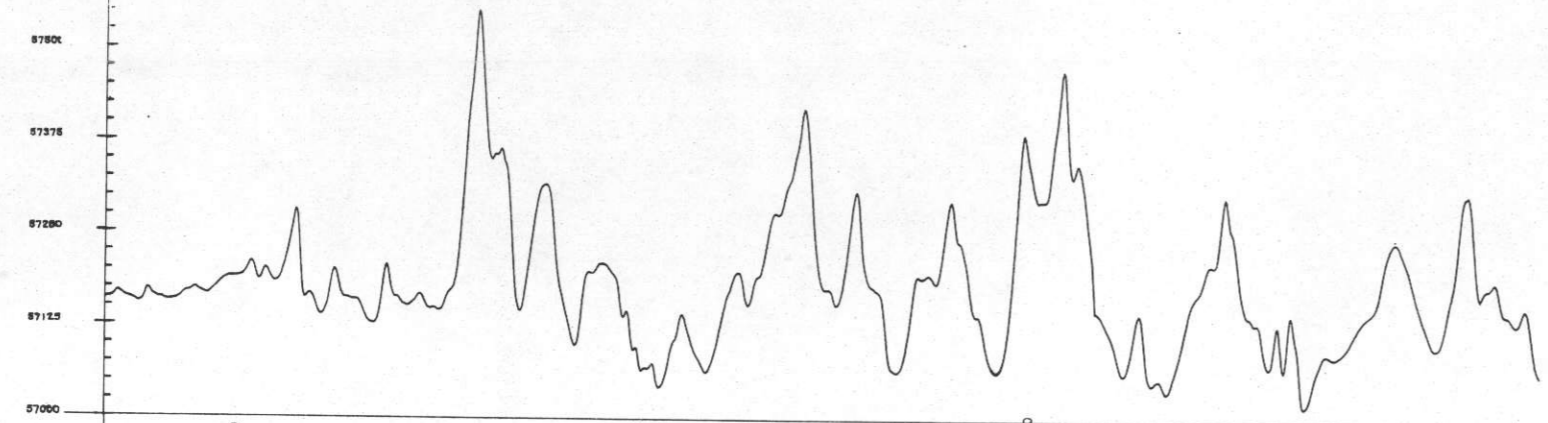
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

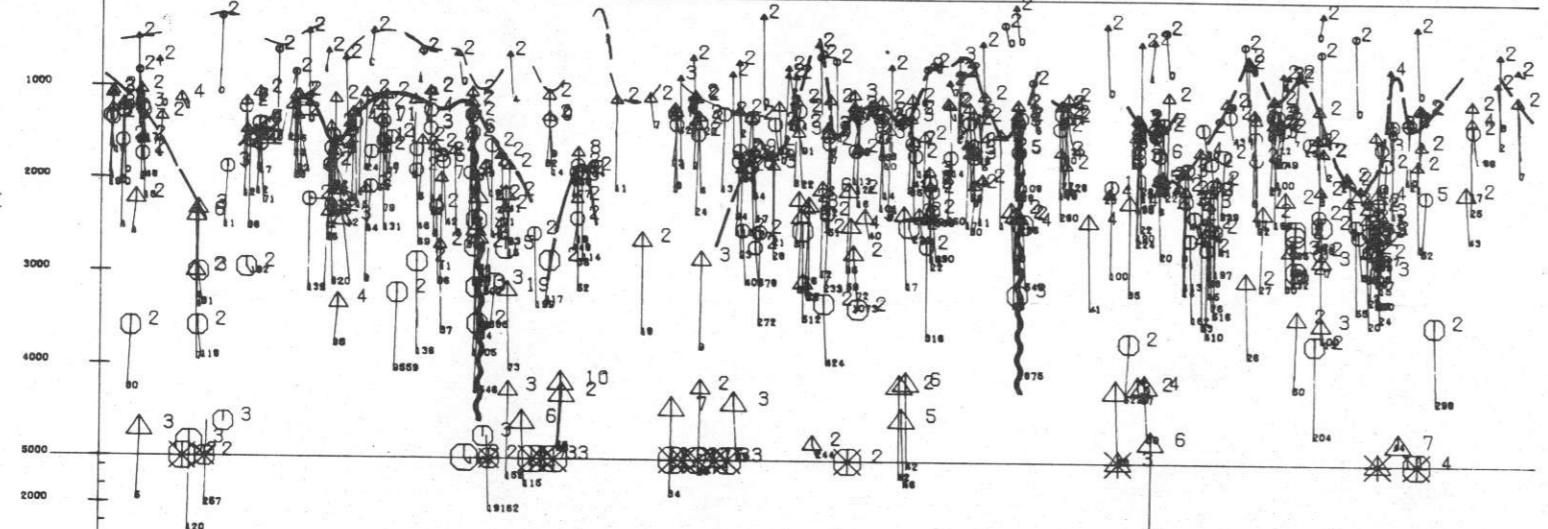
PREPARED FOR  
DEPARTMENT OF ENERGY



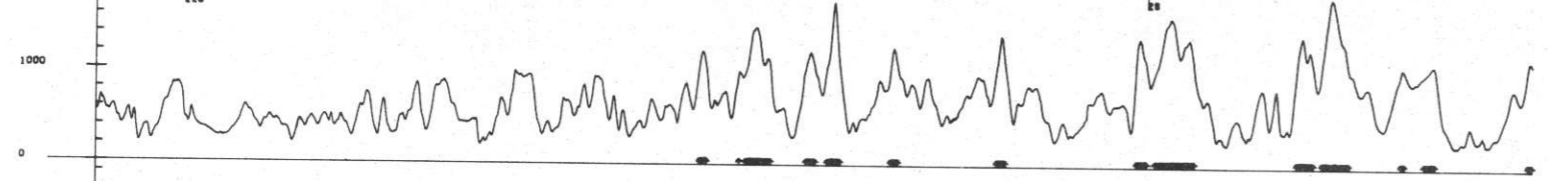
MAG  
20 GAUSS/DIV



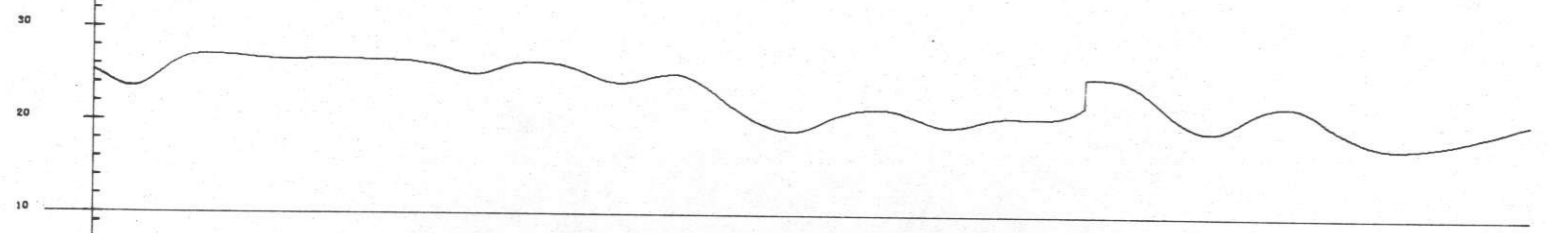
MAG SOURCE  
DEPTH  
1000 FT/DIV



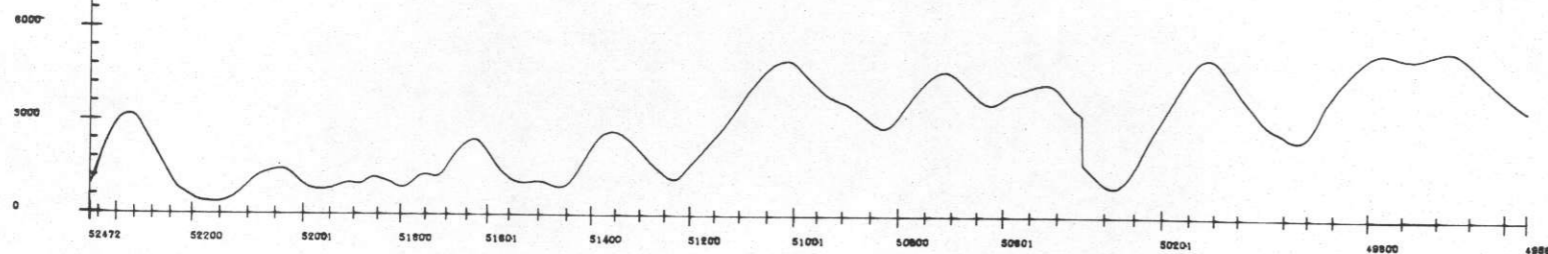
ALT  
200 FT/DIV



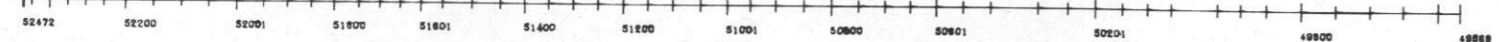
TEMP  
2.00 DEGREES/DIV



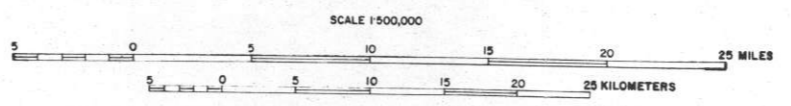
BAR ALT  
600 FT/DIV



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↑ EXCEEDS ALTITUDE SPECIFICATIONS

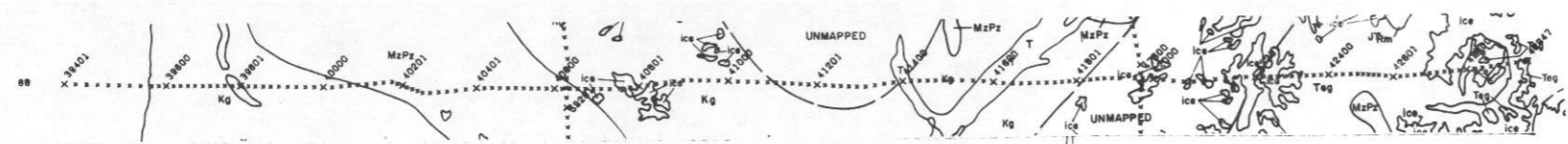


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

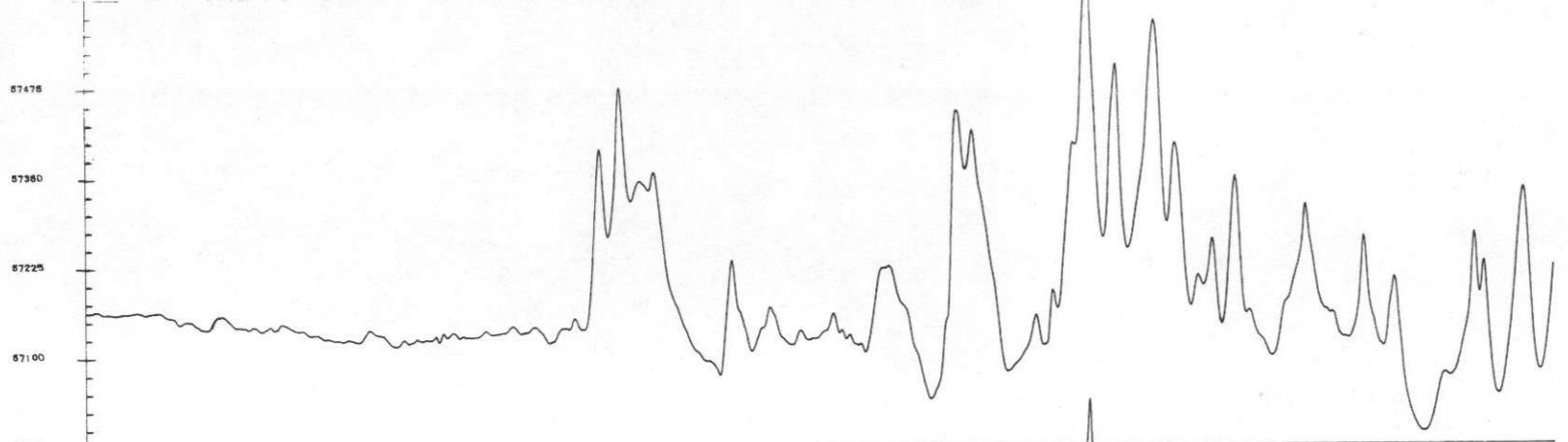
**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

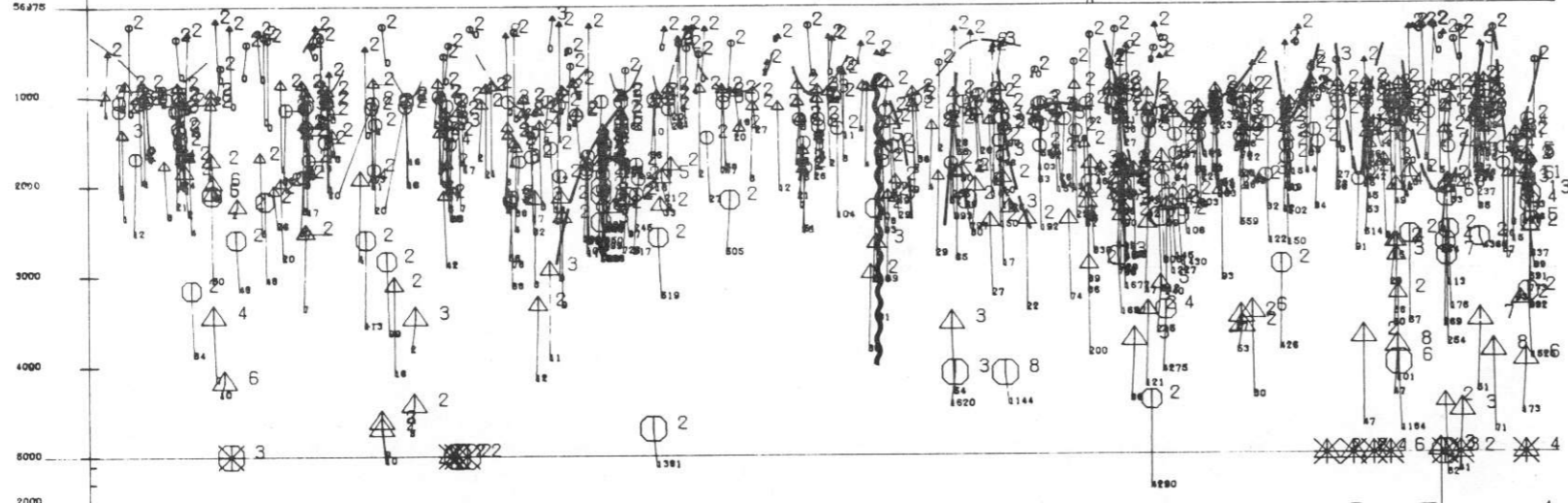
PREPARED FOR  
DEPARTMENT OF ENERGY



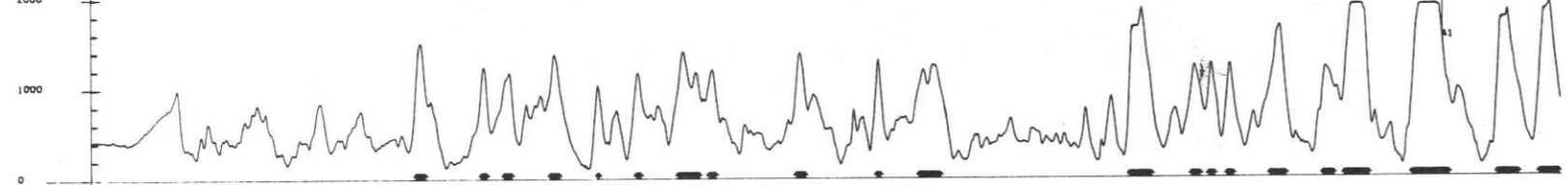
MAG  
25 GAMMAS/DIV



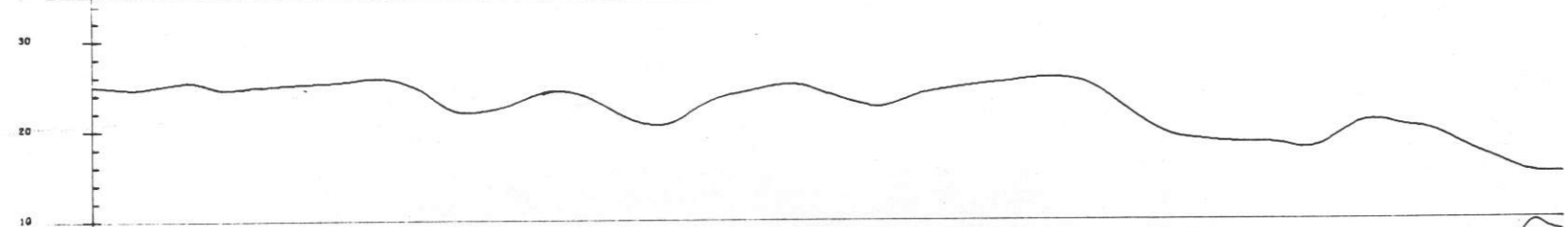
MAG SOURCE  
DEPTH  
1000 FT/DIV



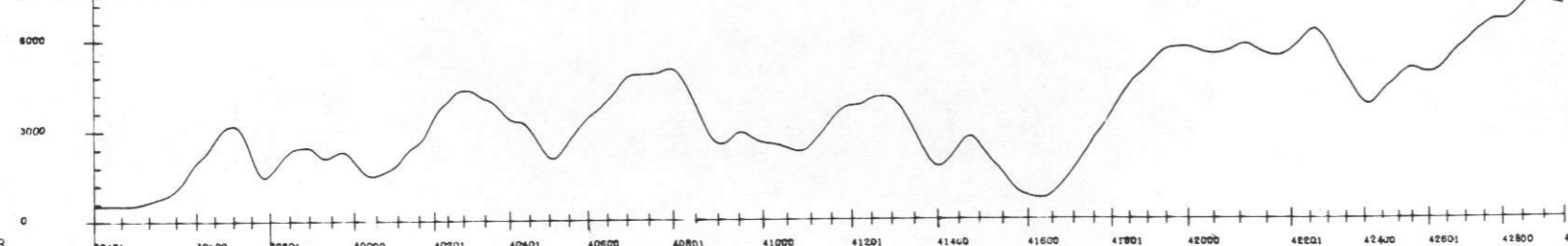
ALT  
200 FT/DIV



TEMP  
2.00 DEGREES/DIV

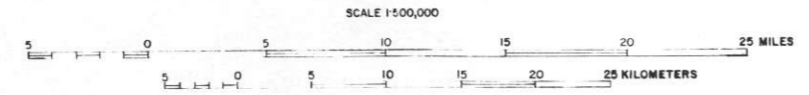


BAR ACT  
800 FT/DIV



P 88

↑ EXCEEDS ALTITUDE SPECIFICATIONS



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

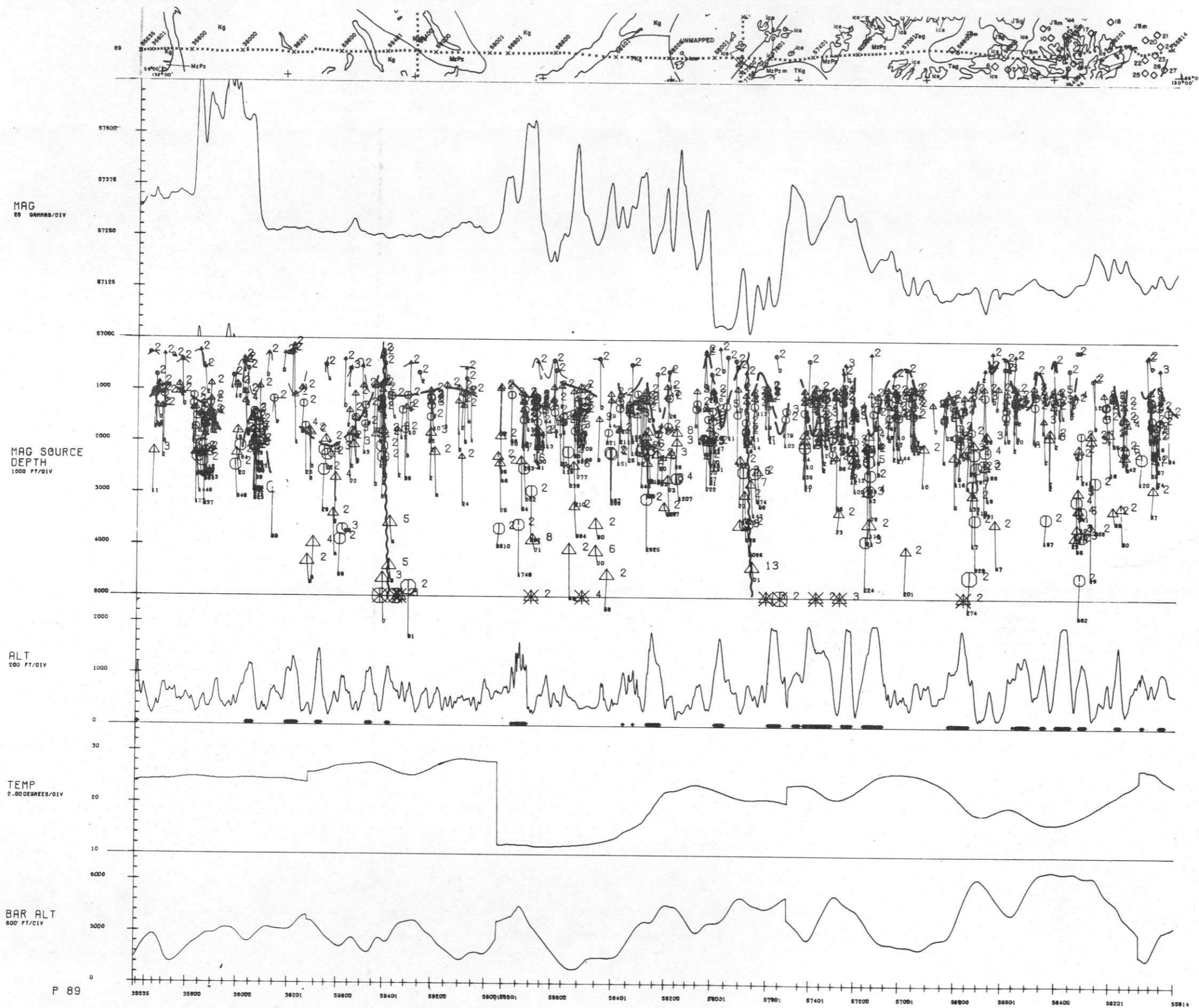
BRADFIELD CANAL, ALASKA  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

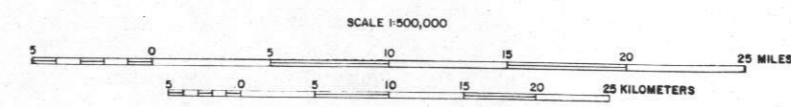
PREPARED FOR  
DEPARTMENT OF ENERGY





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↑ EXCEEDS ALTITUDE SPECIFICATIONS

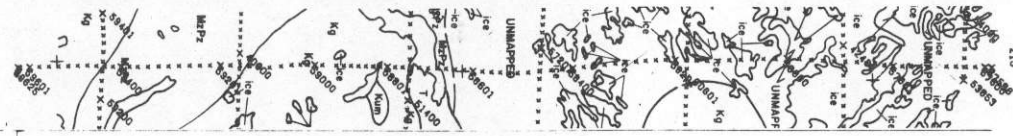


NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976-1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006

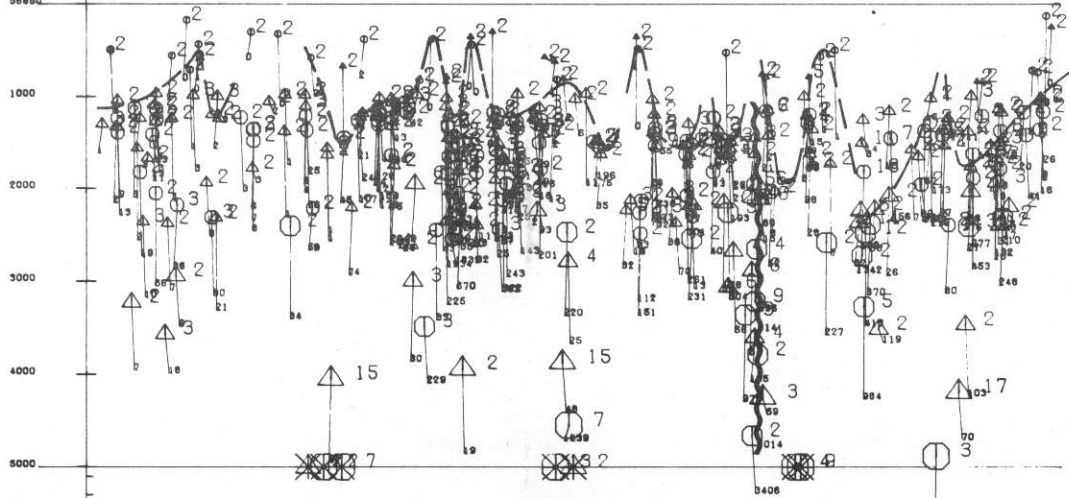
PREPARED FOR  
DEPARTMENT OF ENERGY



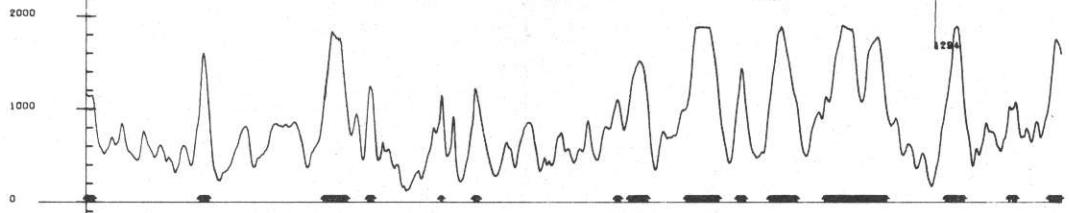
MAG  
25 GAUSS/DIV



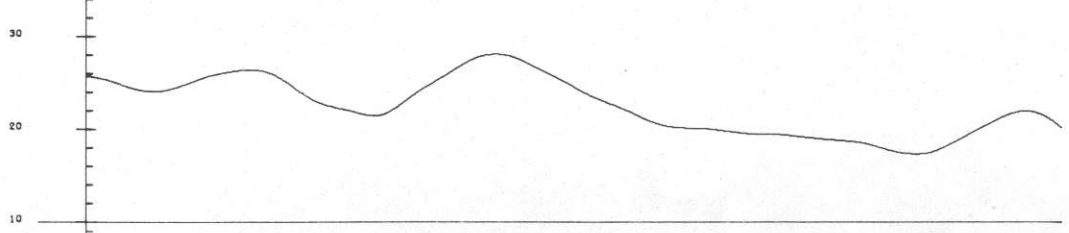
MAG SOURCE  
DEPTH  
1000 FT/DIV



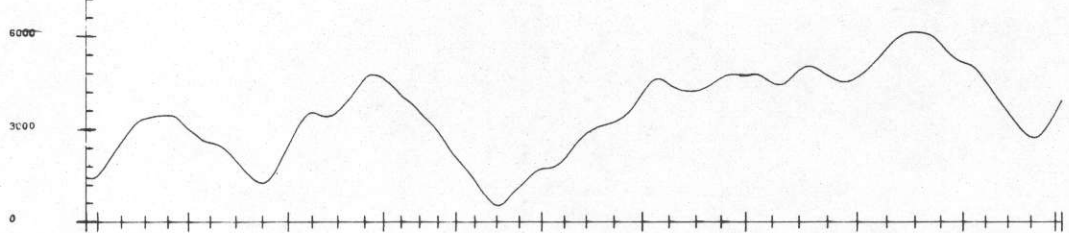
ALT  
200 FT/DIV



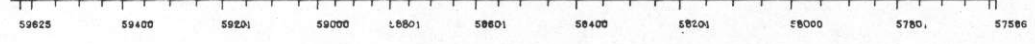
TEMP  
2.00 DEGREES/DIV



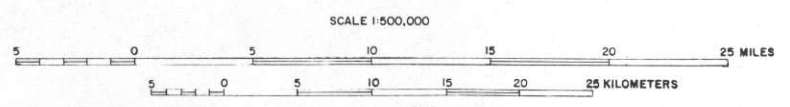
BAR ALT  
600 FT/DIV



TL 215



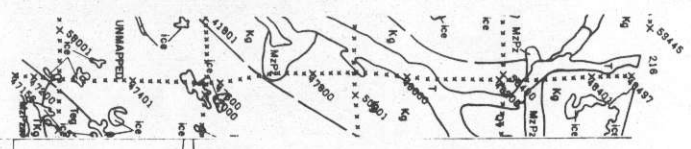
↑ EXCEEDS ALTITUDE SPECIFICATIONS



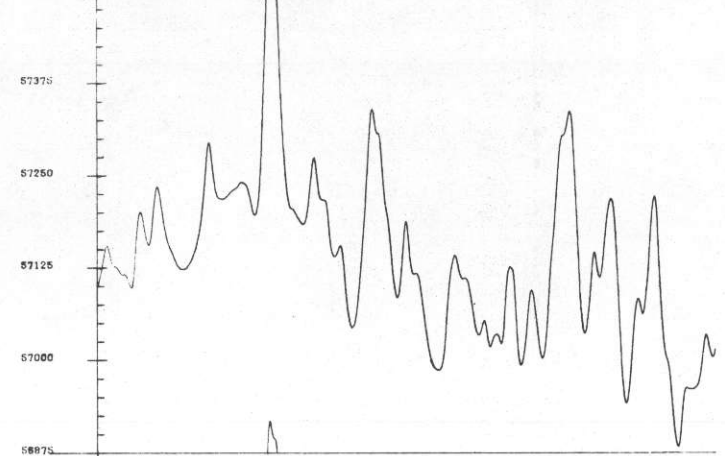
NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

**BRADFIELD CANAL, ALASKA**  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976-1978

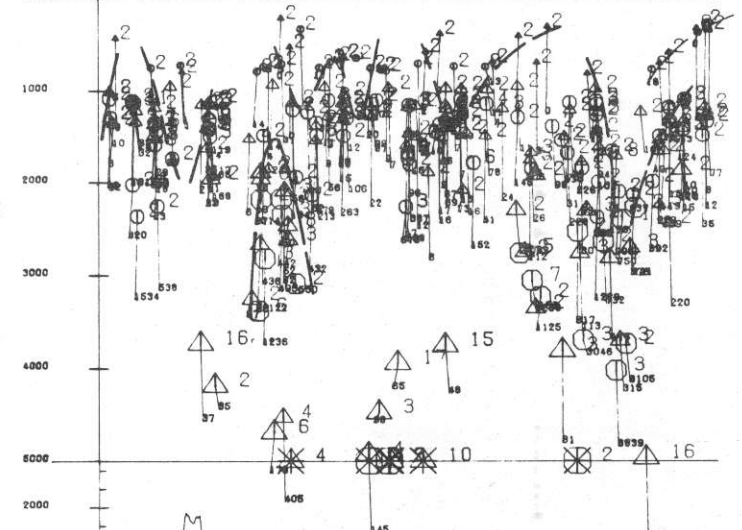
BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006  
PREPARED FOR  
DEPARTMENT OF ENERGY



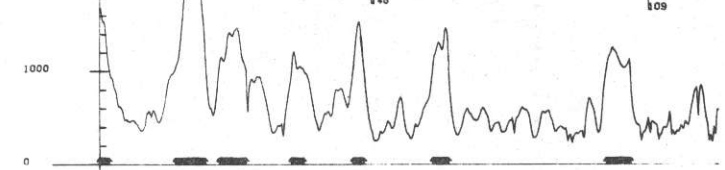
MAG  
25 GAMMAS/DIV



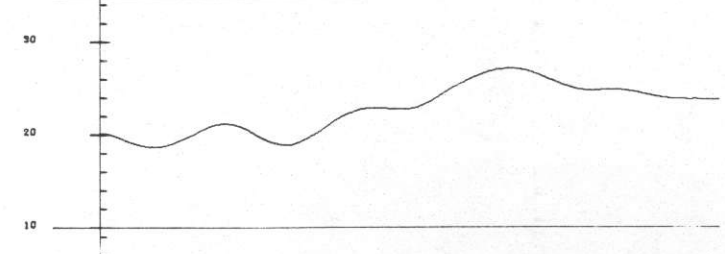
MAG SOURCE  
DEPTH  
1000 FT/DIV



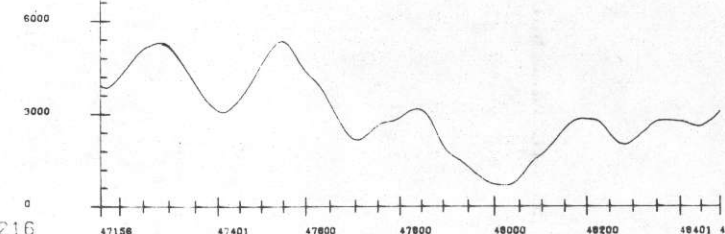
ALT  
200 FT/DIV



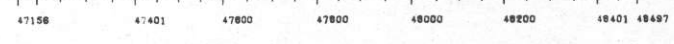
TEMP  
2.00 DEGREES/DIV



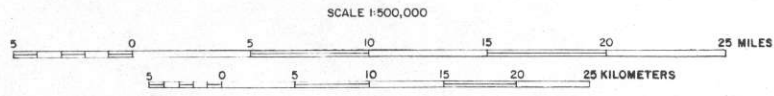
BAR ALT  
600 FT/DIV



TL 216



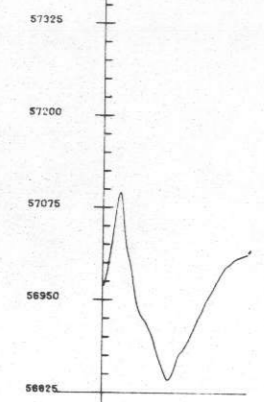
↑ EXCEEDS ALTITUDE SPECIFICATIONS



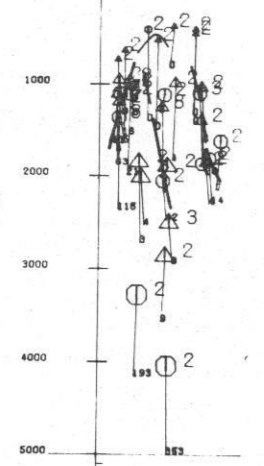
<p>NURE AERIAL GAMMA RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p><b>BRADFIELD CANAL, ALASKA</b> MAGNETIC AND ANCILLARY STACKED PROFILE DATA 1976 - 1978</p> <p>BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA. 19006</p> <p>PREPARED FOR DEPARTMENT OF ENERGY</p>
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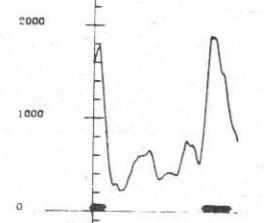
MAG  
25 GAUSS/DIV



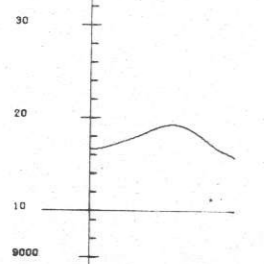
MAG SOURCE  
DEPTH  
1000 FT/DIV



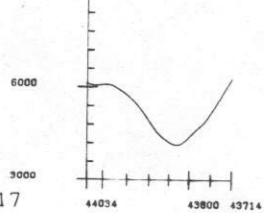
ALT  
200 FT/DIV



TEMP  
2.00 DEGREES/DIV

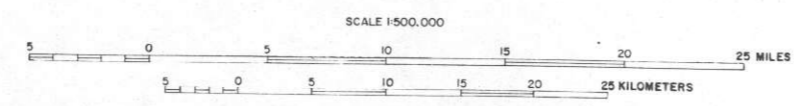


BAR ALT  
800 FT/DIV



TL 217 44034 43800 43714

↑ EXCEEDS ALTITUDE SPECIFICATIONS



NURE AERIAL GAMMA RAY AND MAGNETIC  
RECONNAISSANCE SURVEY

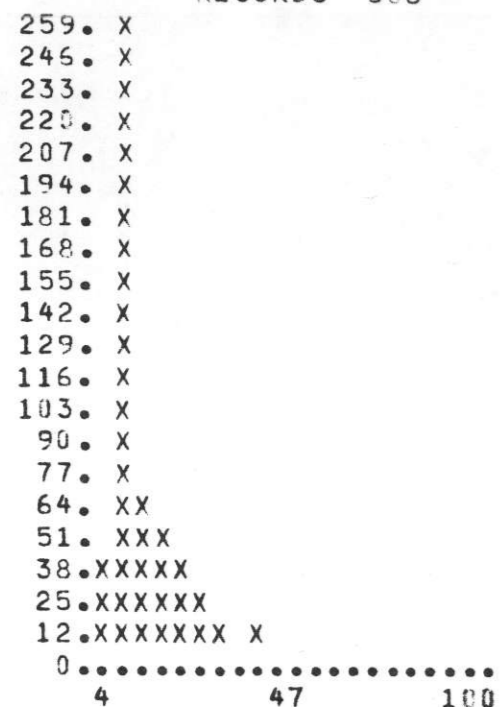
BRADFIELD CANAL, ALASKA  
MAGNETIC AND ANCILLARY STACKED PROFILE DATA  
1976 - 1978

BY: LKB RESOURCES, INC. 55 BUCK ROAD HUNTINGDON VALLEY, PENNA 19006

PREPARED FOR  
DEPARTMENT OF ENERGY

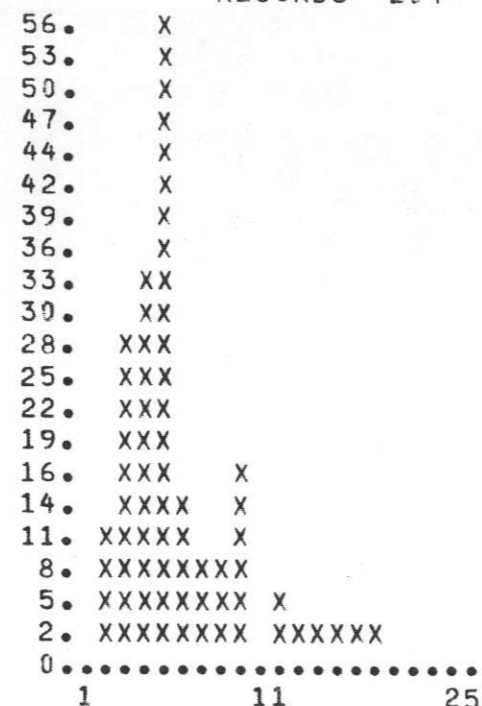
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT WATER

POTASSIUM  
RECORDS 588



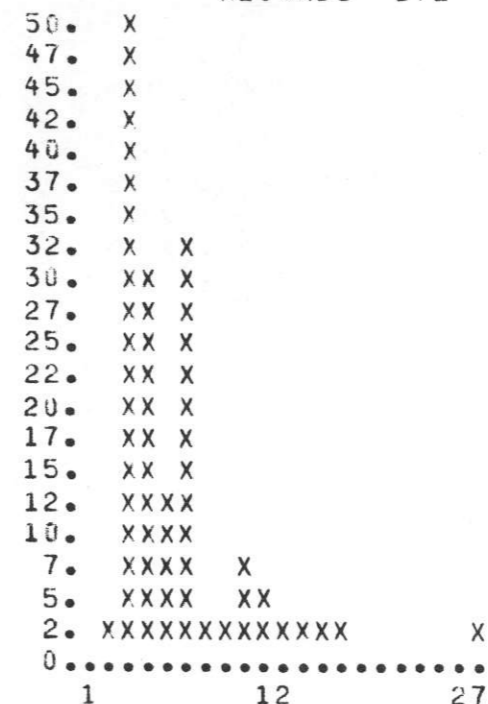
MEAN 16. SIGMA 17.3

URANIUM  
RECORDS 204



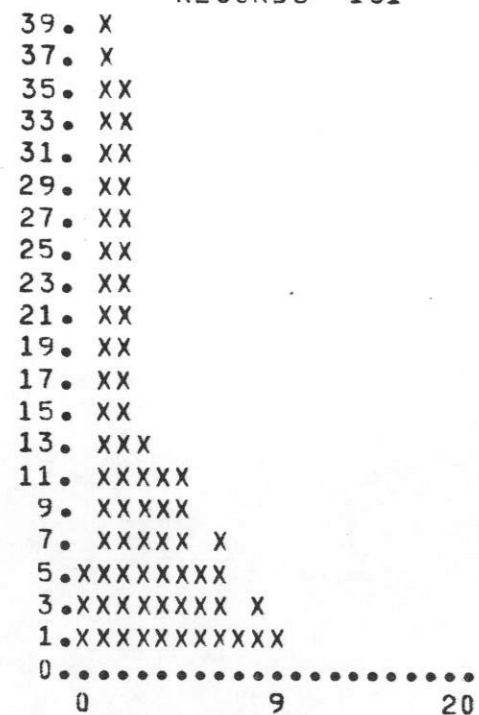
MEAN 7. SIGMA 4.4

THORIUM  
RECORDS 172



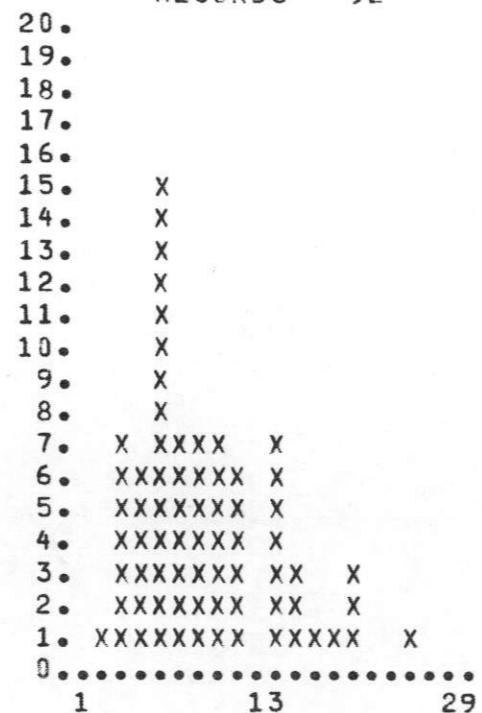
MEAN 8. SIGMA 5.2

U/K RATIO\*10  
RECORDS 131



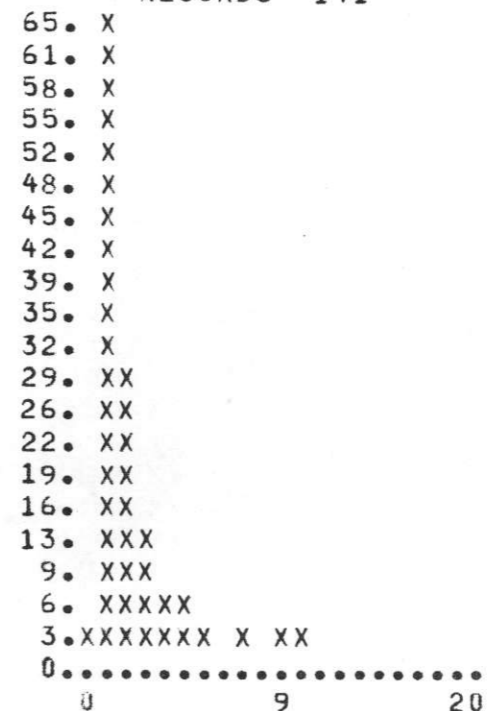
MEAN 3. SIGMA 2.2

U/T RATIO\*10  
RECORDS 92



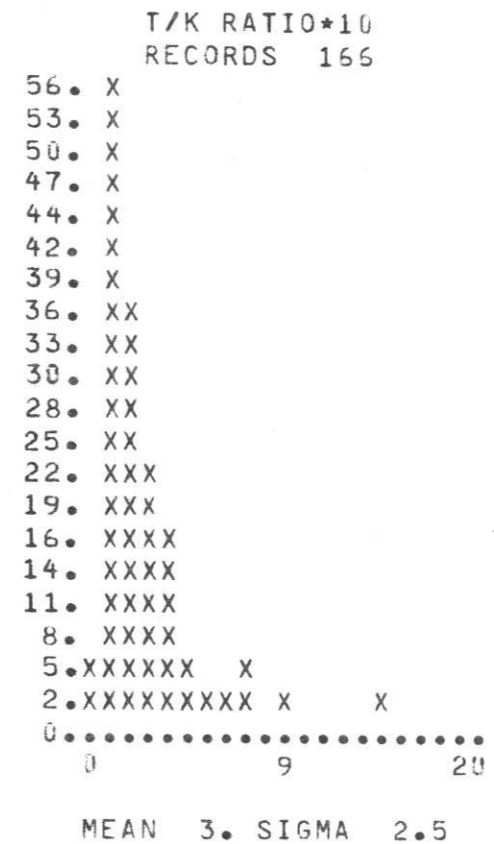
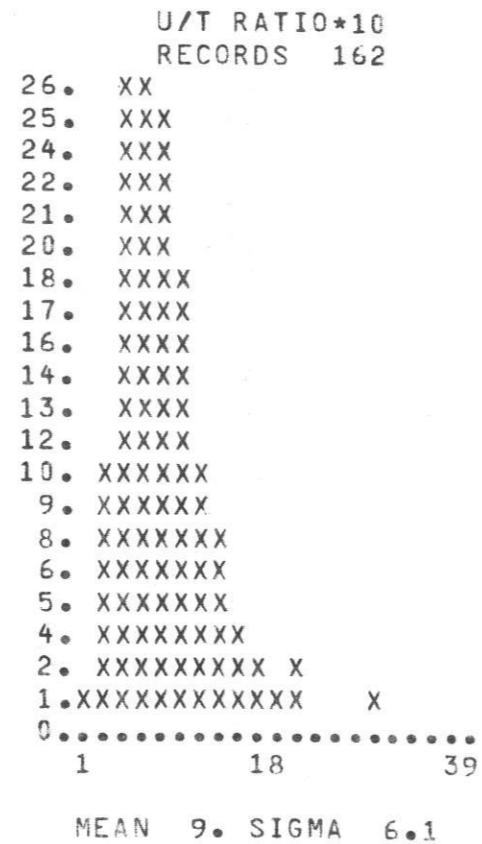
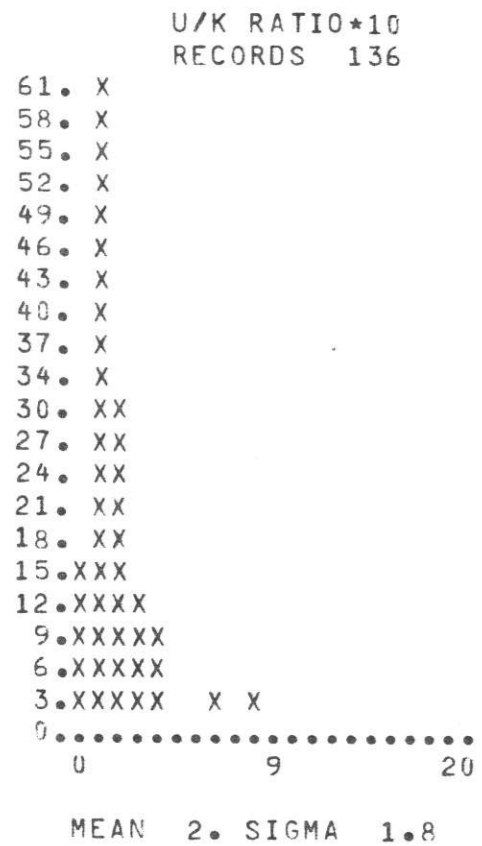
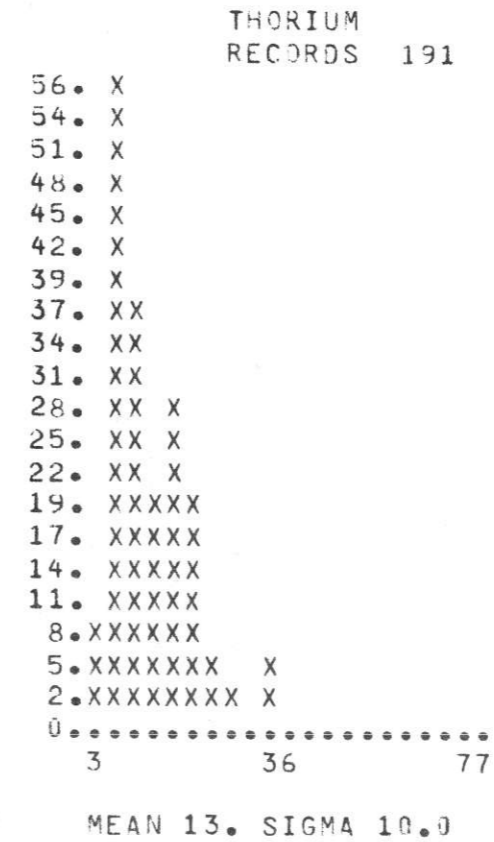
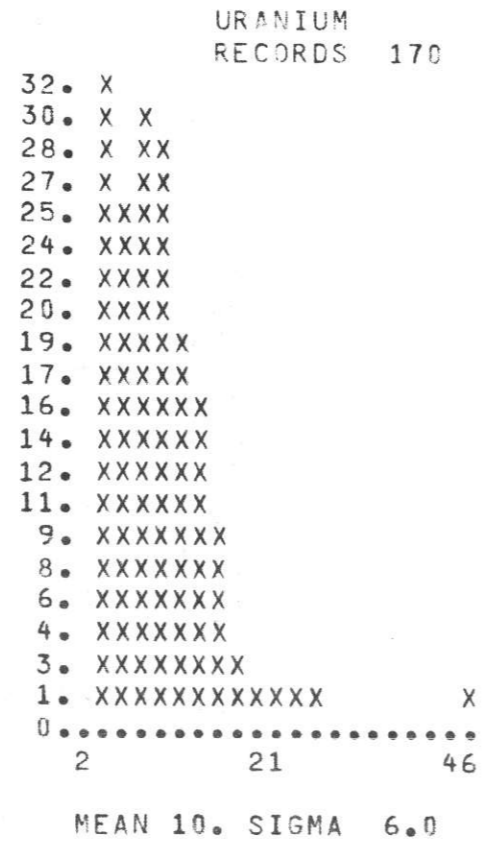
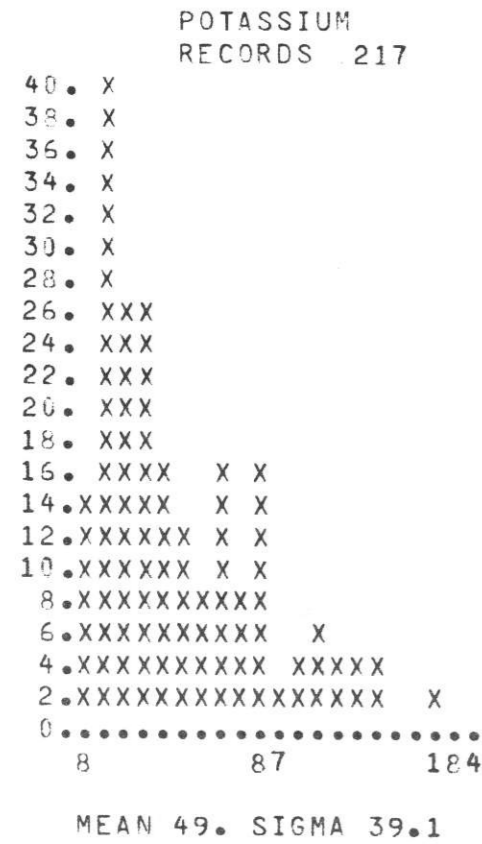
MEAN 10. SIGMA 6.4

T/K RATIO\*10  
RECORDS 141



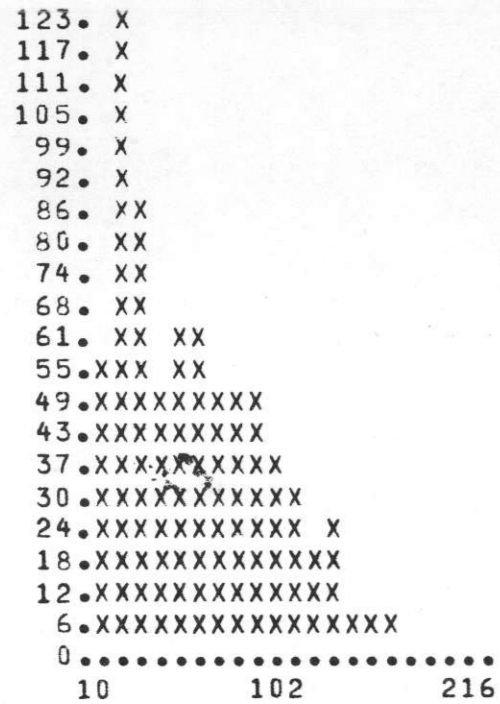
MEAN 3. SIGMA 2.5

SUMDUM/PETERSBURG/BRADFELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT ICE



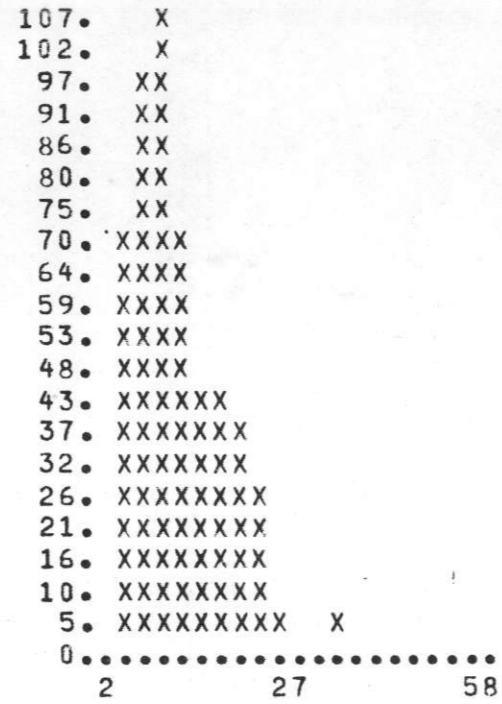
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
 GEOLOGIC UNIT UNCLA

POTASSIUM  
 RECORDS 757



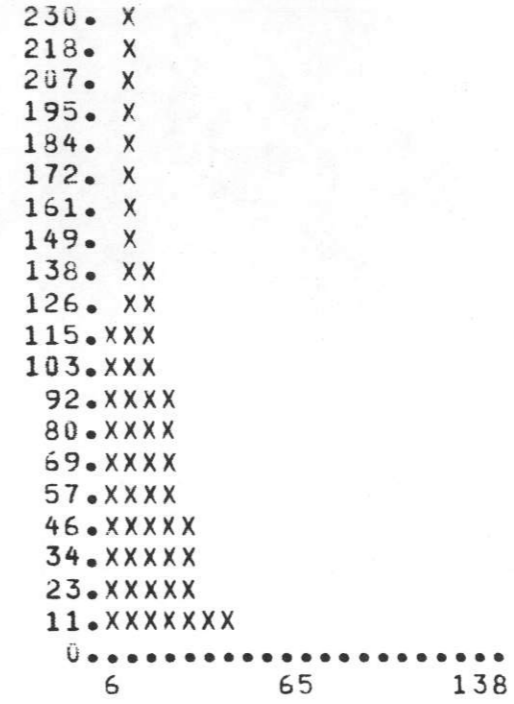
MEAN 58. SIGMA 41.3

URANIUM  
 RECORDS 537



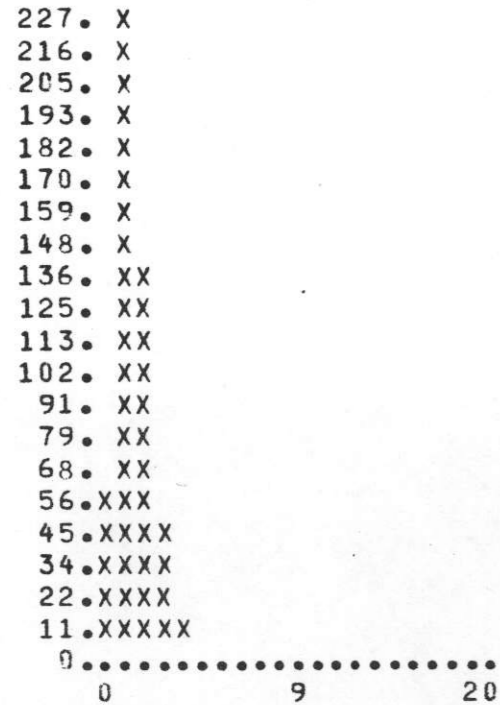
MEAN 13. SIGMA 8.1

THORIUM  
 RECORDS 676



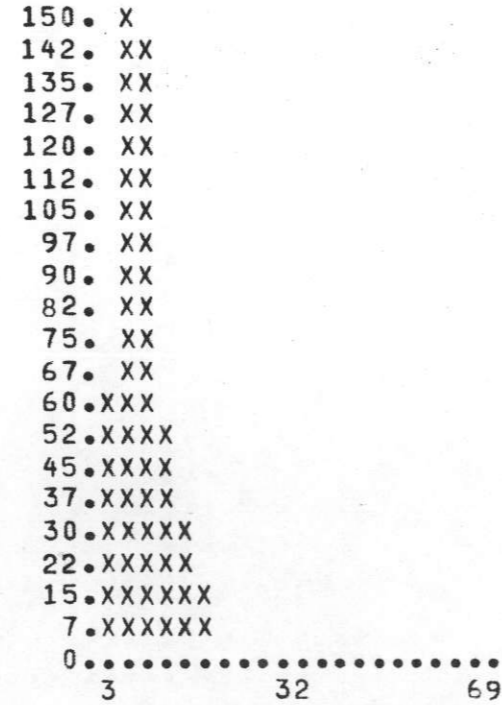
MEAN 17. SIGMA 14.9

U/K RATIO\*10  
 RECORDS 479



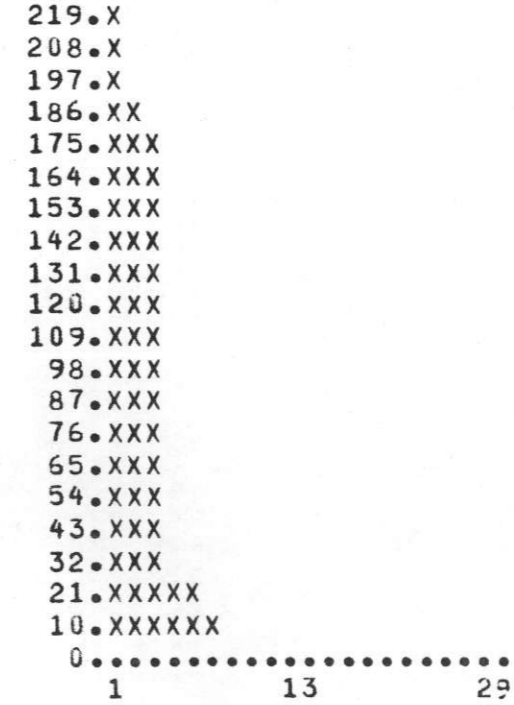
MEAN 2. SIGMA 1.5

U/T RATIO\*10  
 RECORDS 536



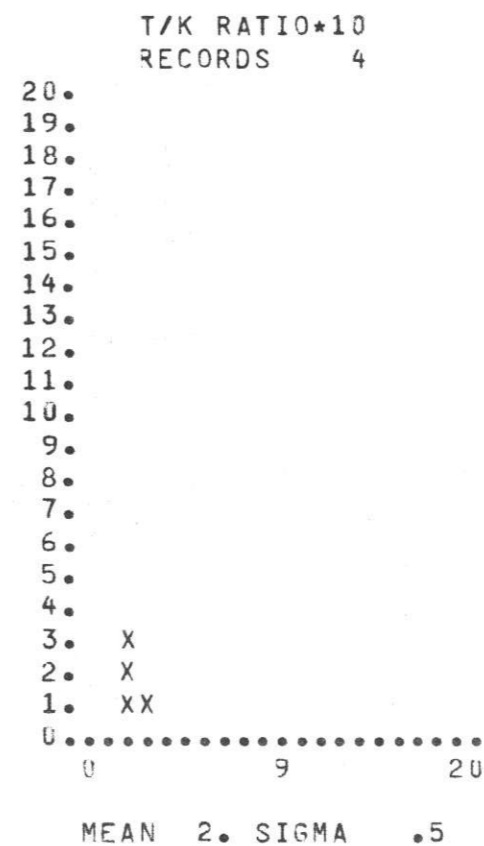
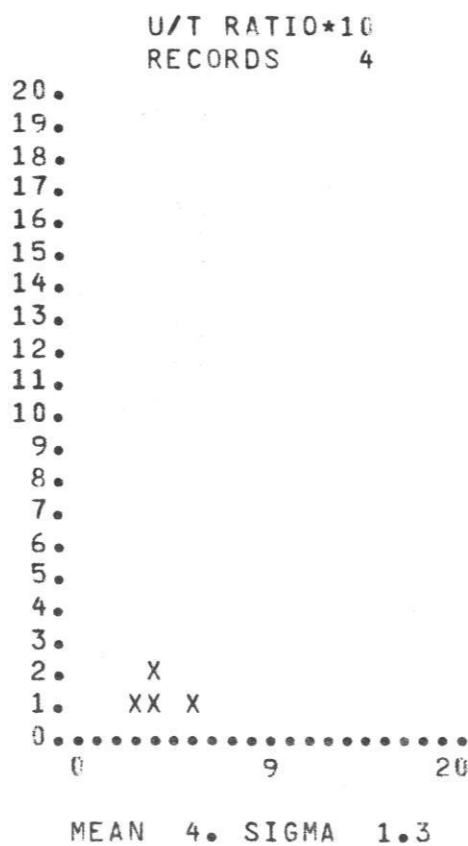
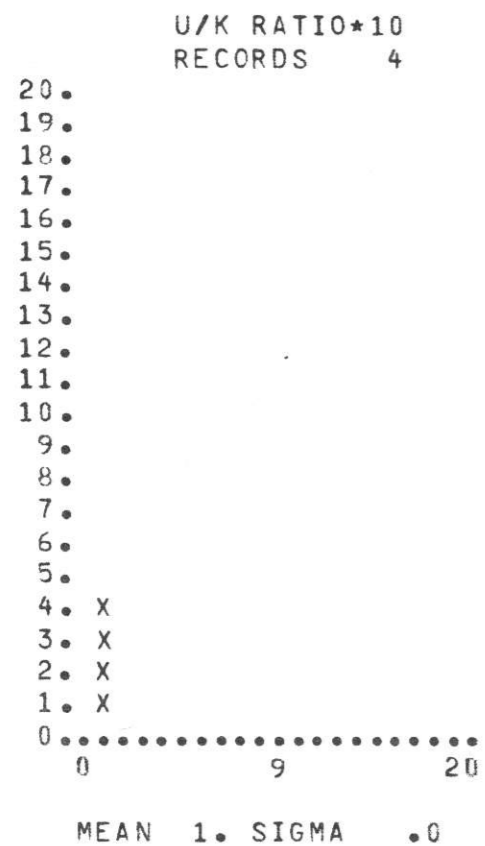
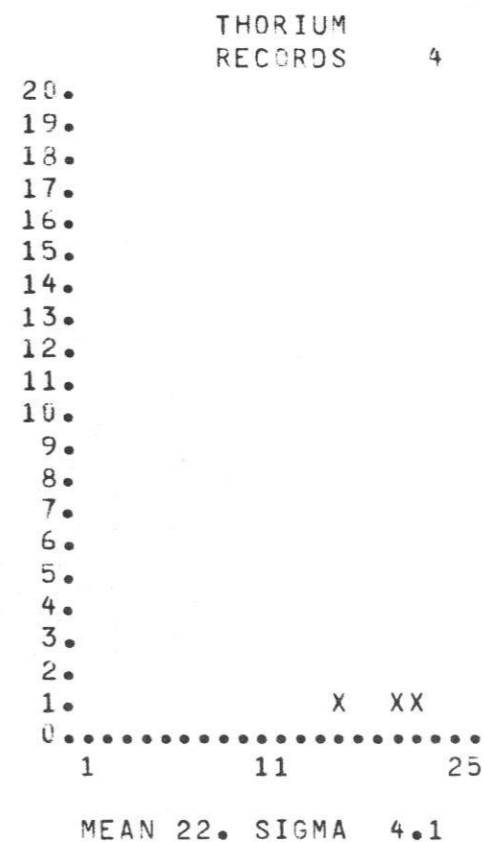
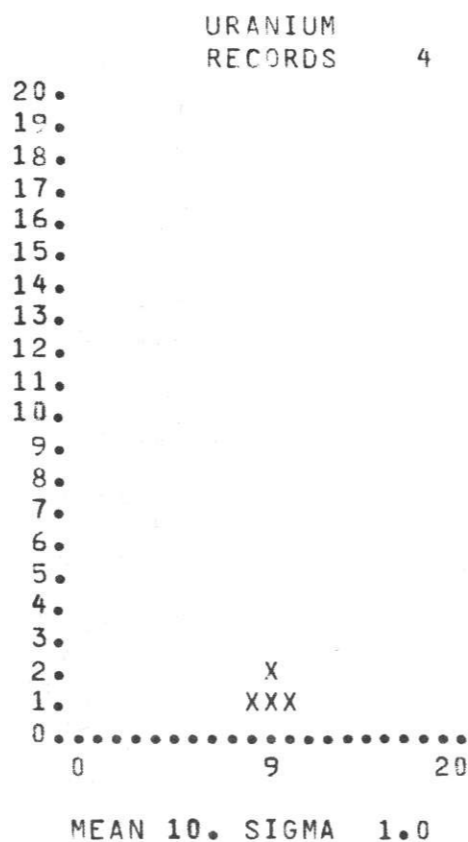
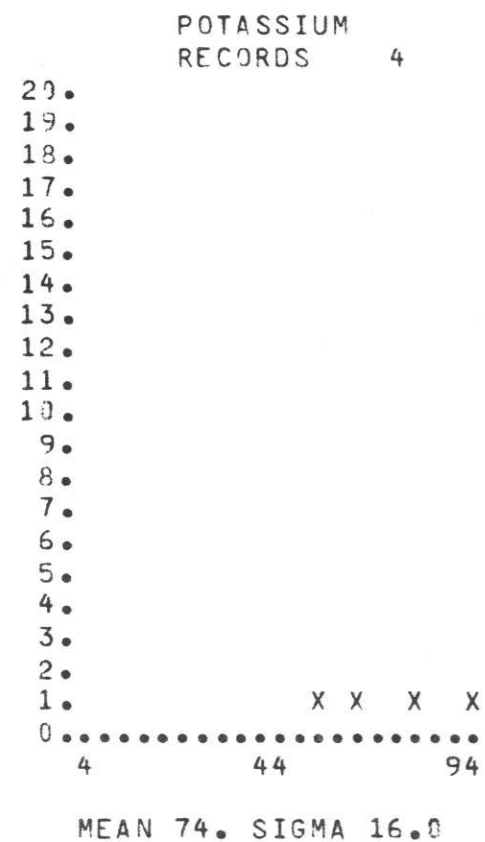
MEAN 9. SIGMA 6.6

T/K RATIO\*10  
 RECORDS 656



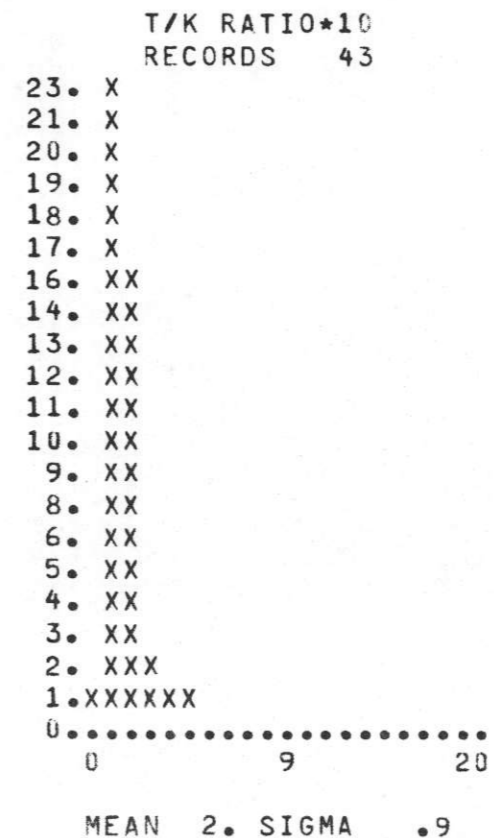
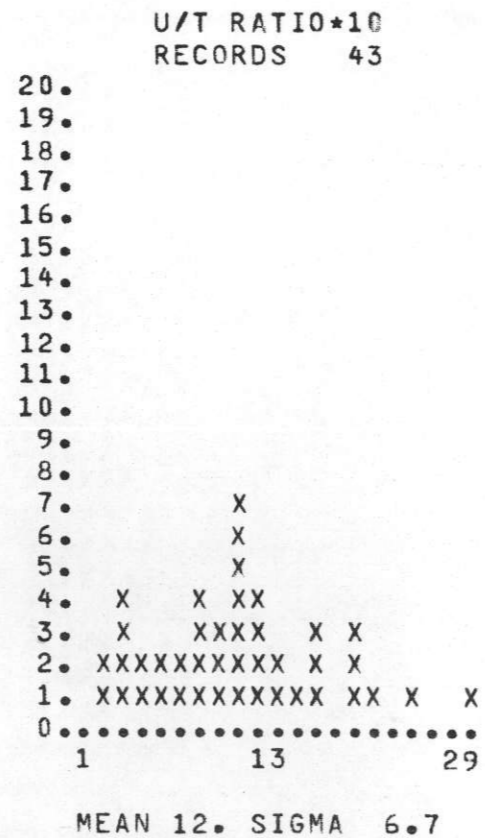
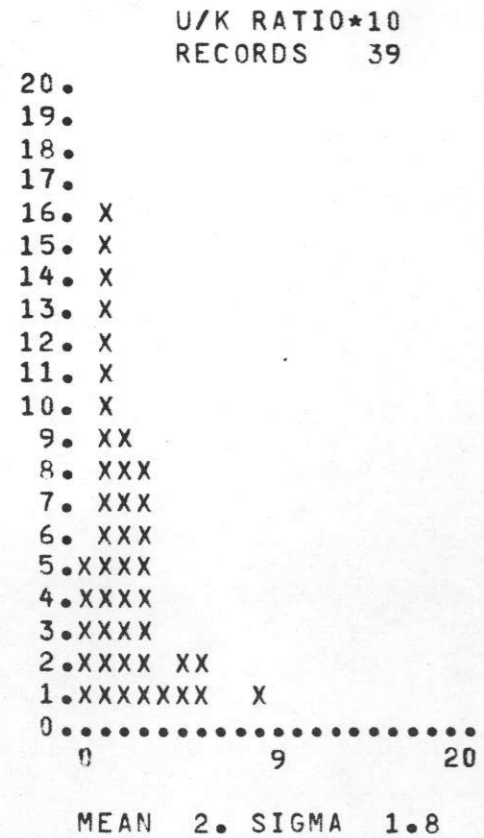
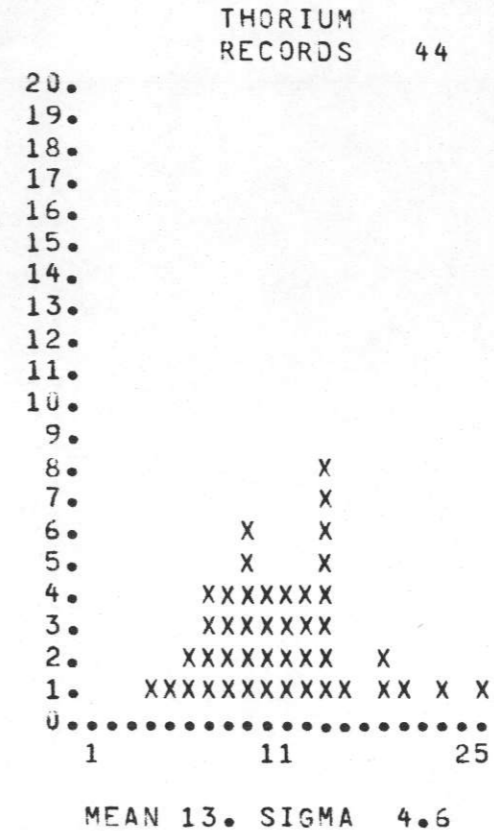
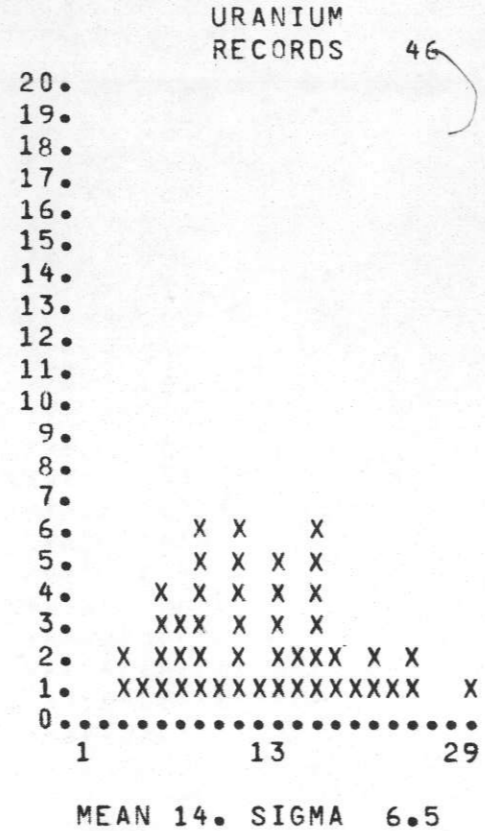
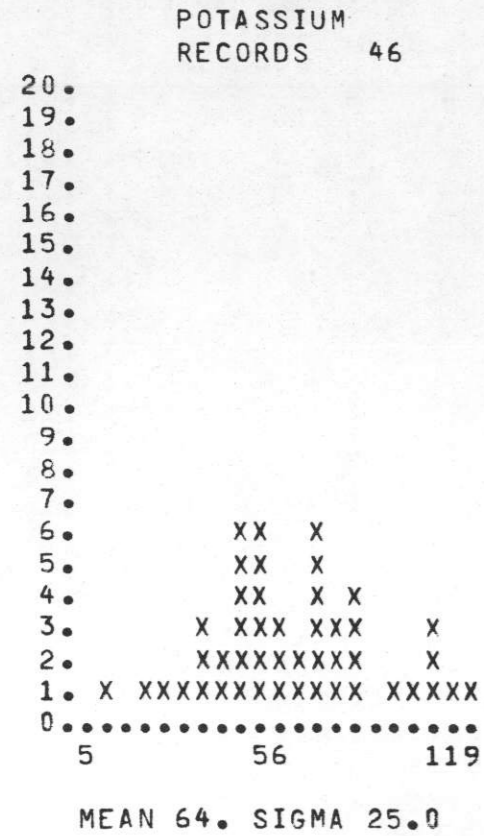
MEAN 3. SIGMA 3.1

SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT QV

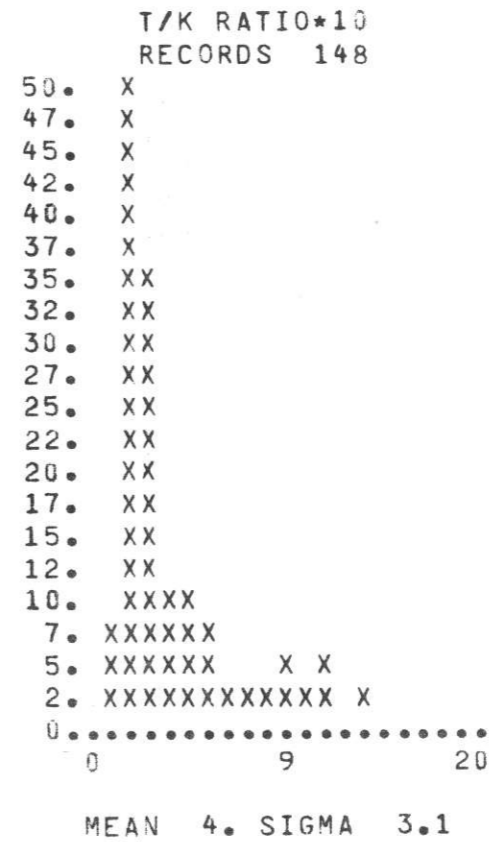
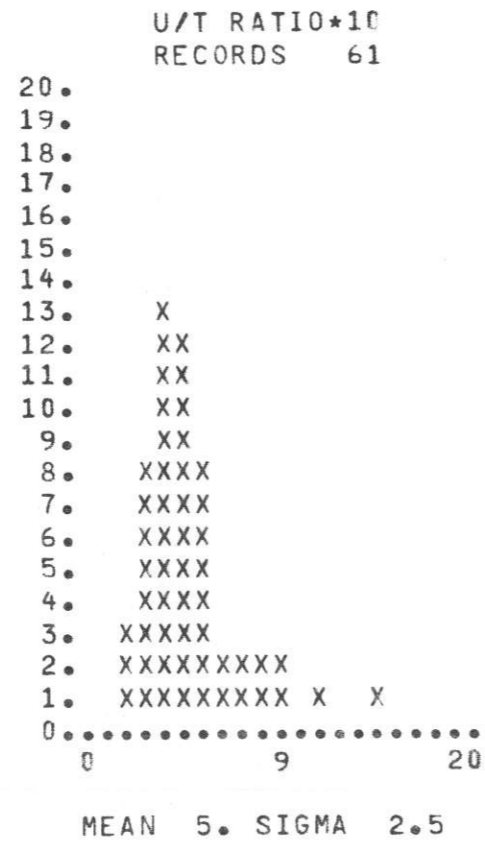
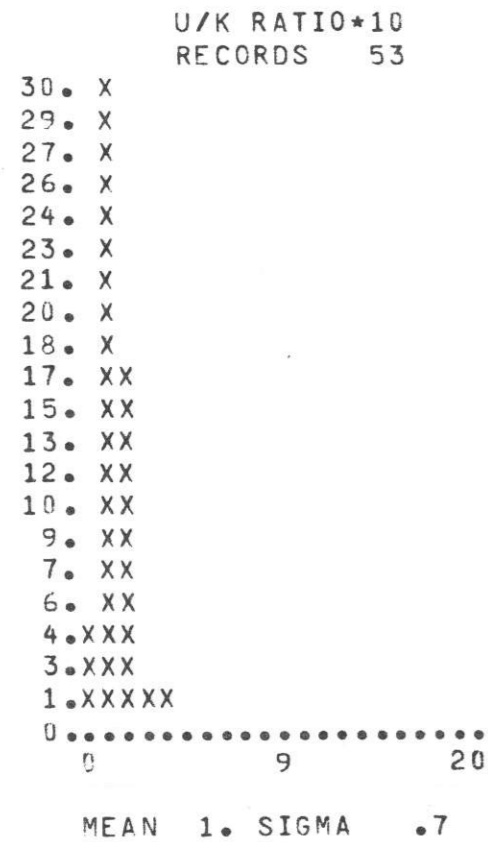
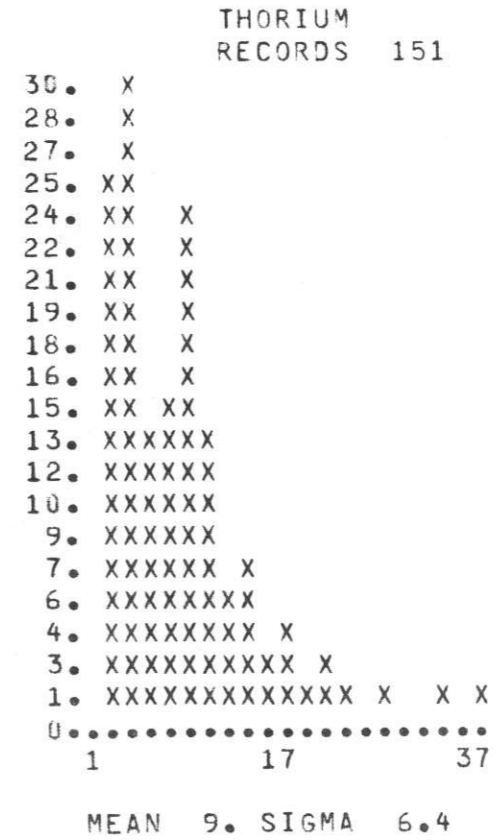
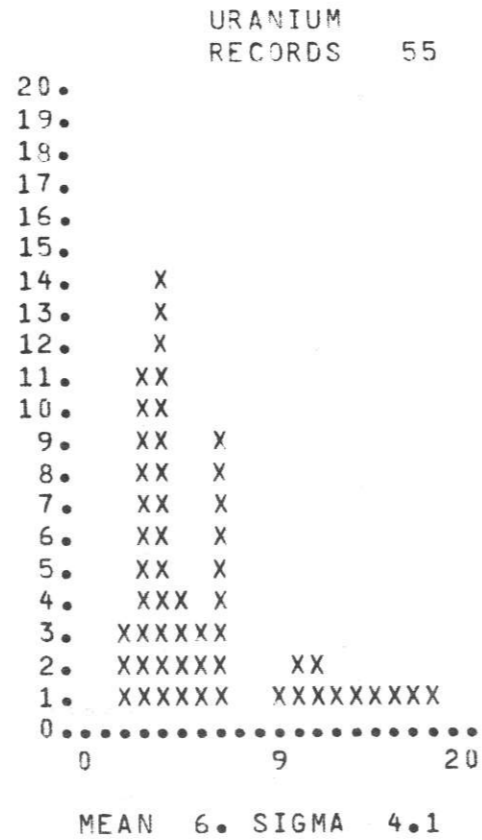
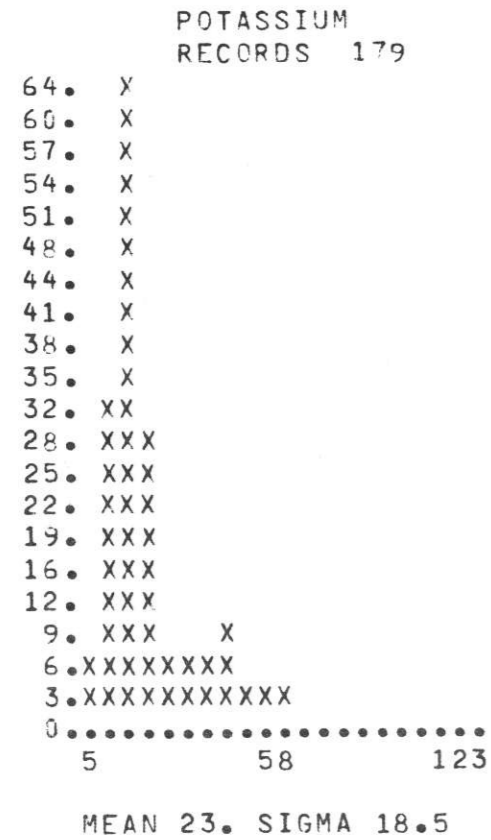




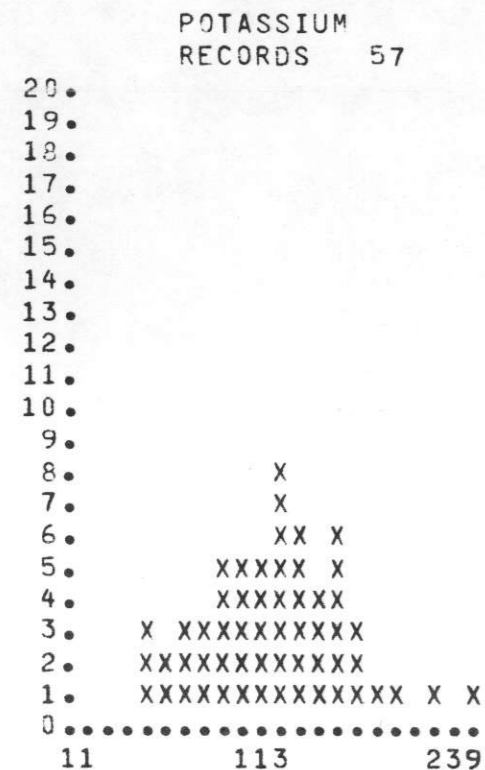
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT T



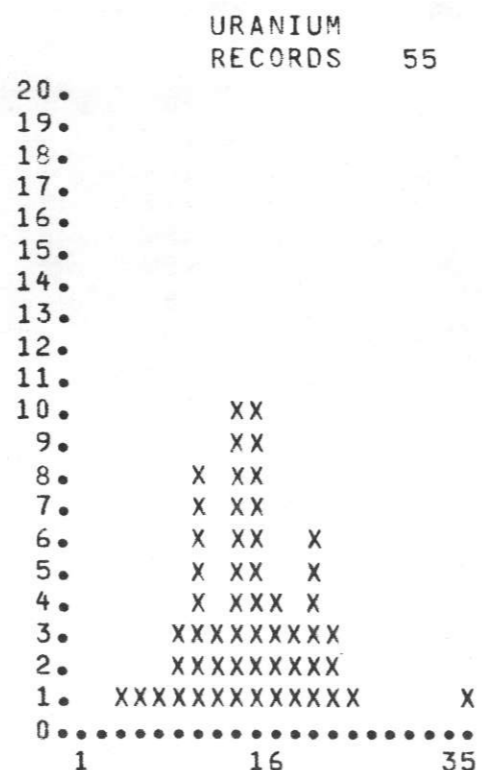
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT TV



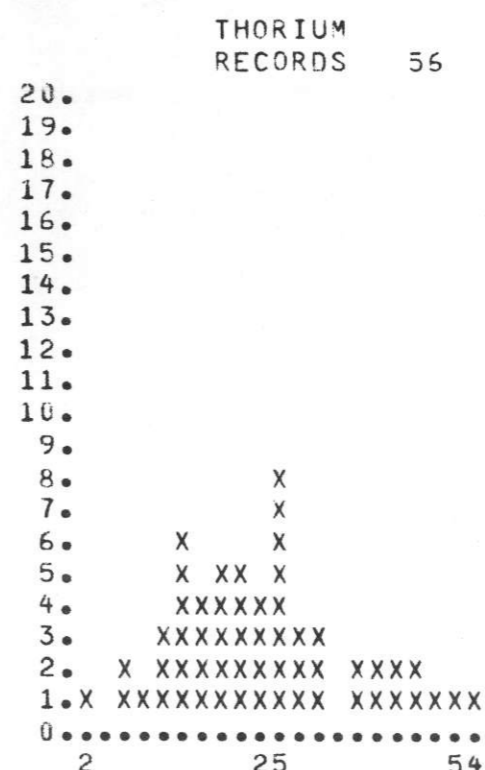
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT TEG



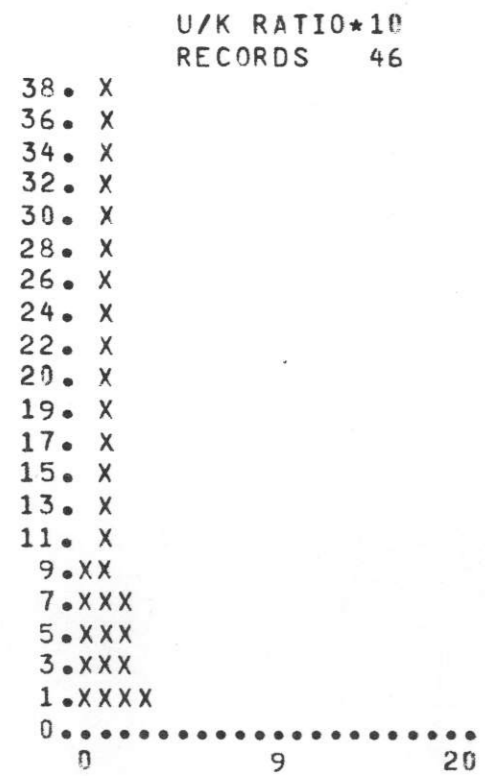
MEAN 116. SIGMA 41.8



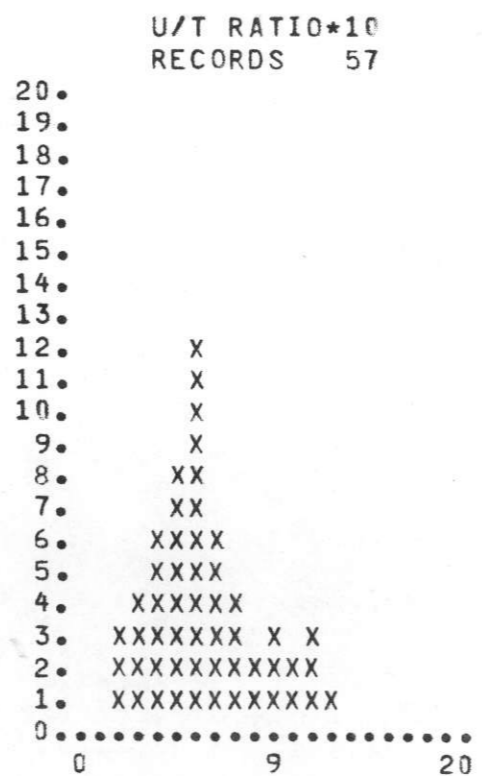
MEAN 16. SIGMA 5.2



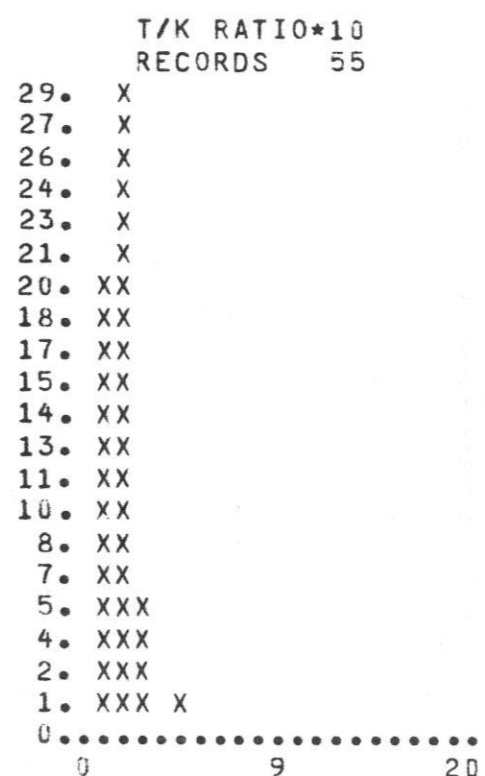
MEAN 26. SIGMA 12.1



MEAN 1. SIGMA .5

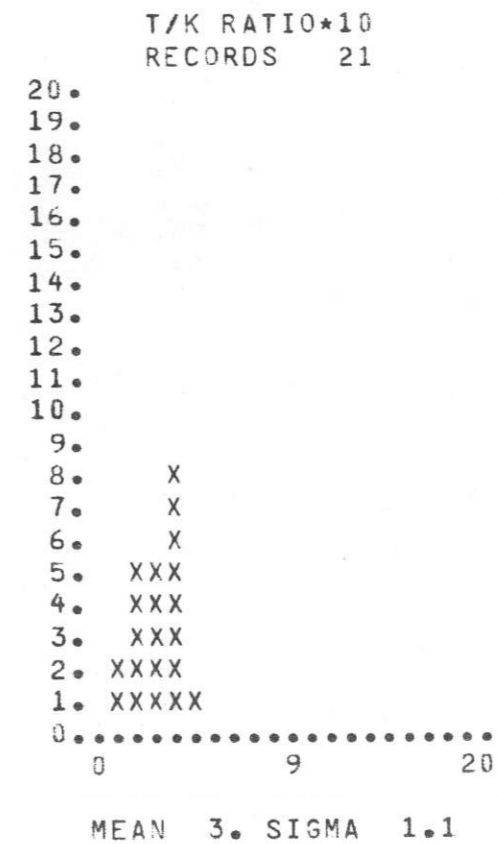
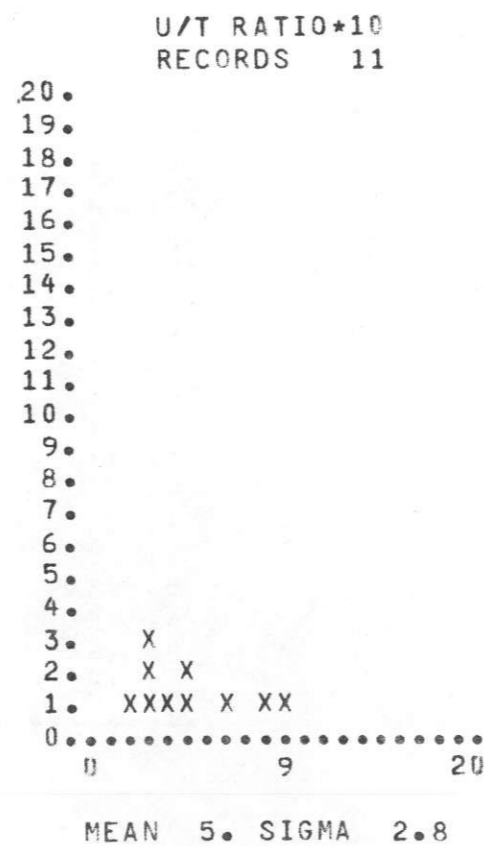
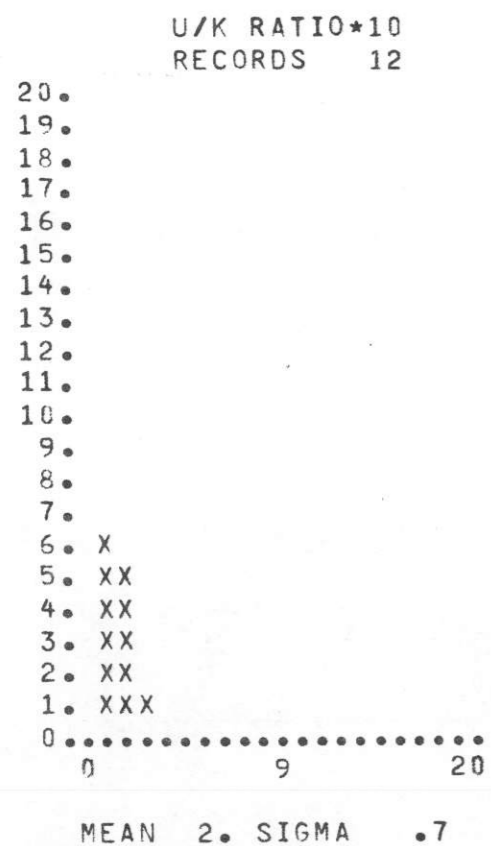
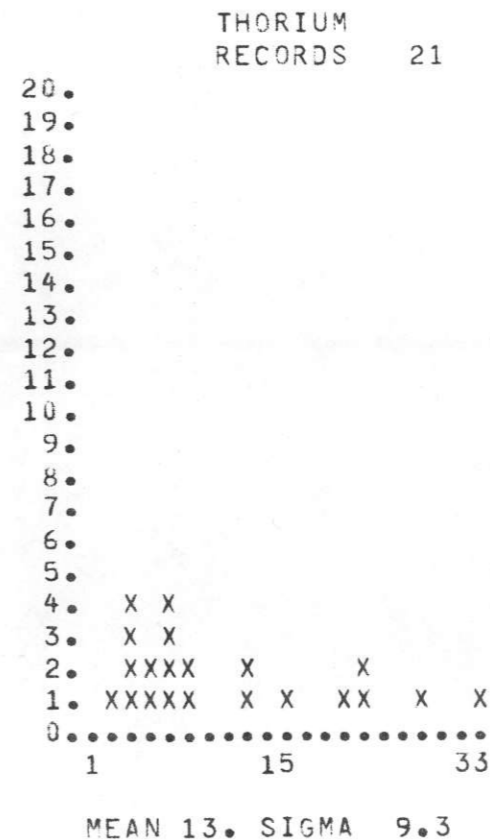
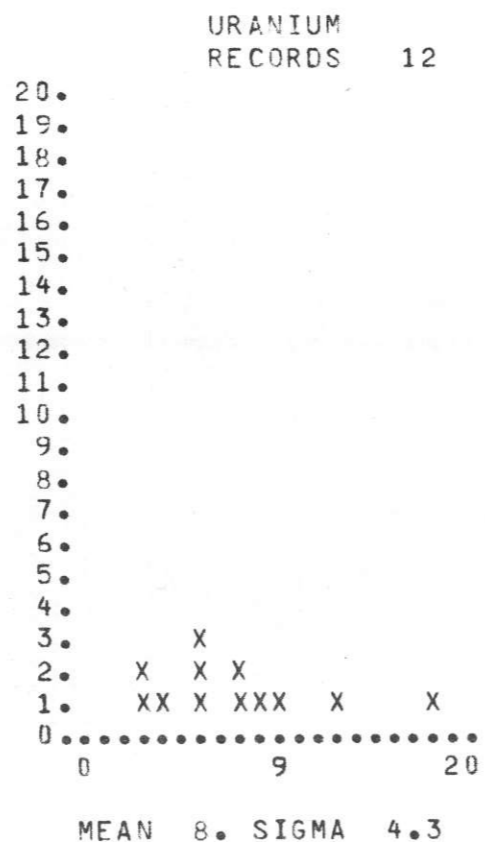
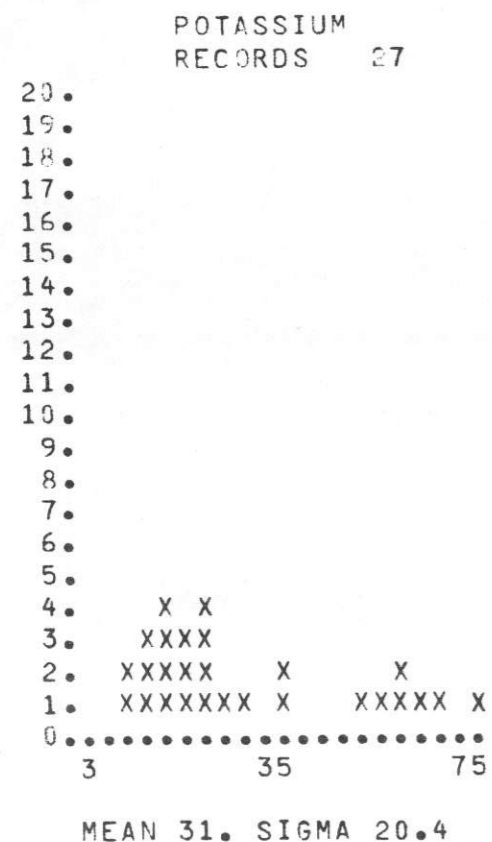


MEAN 7. SIGMA 3.2

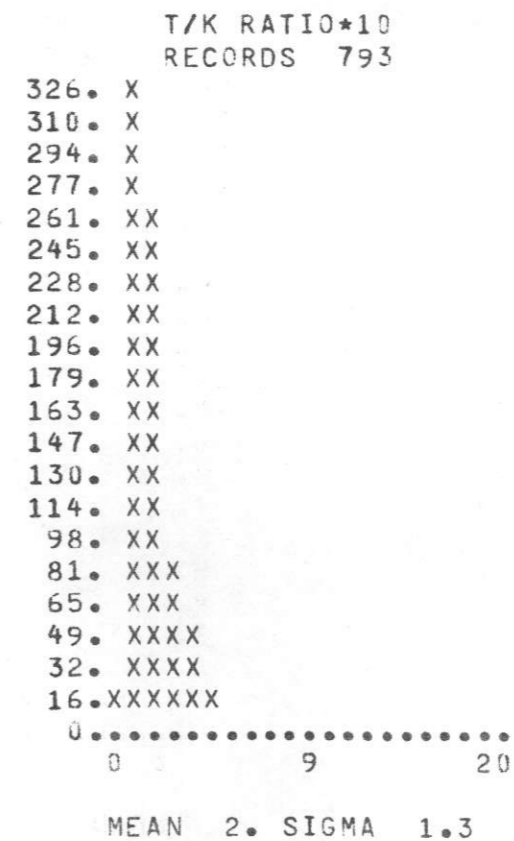
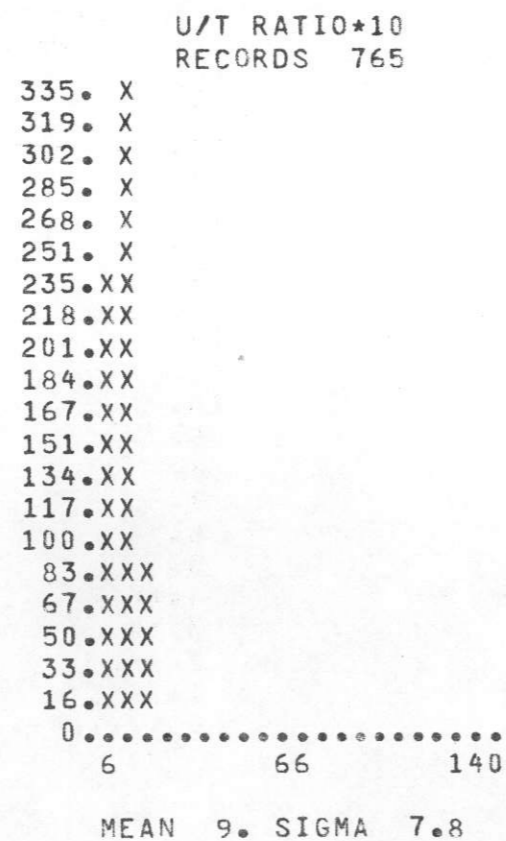
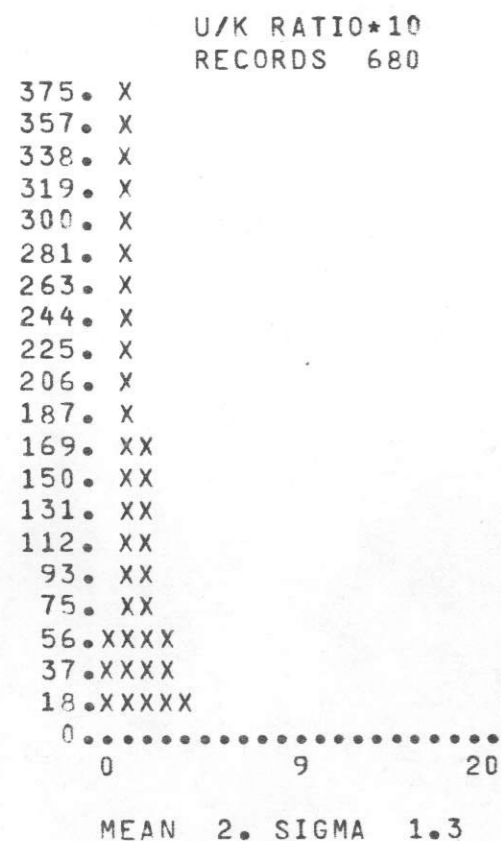
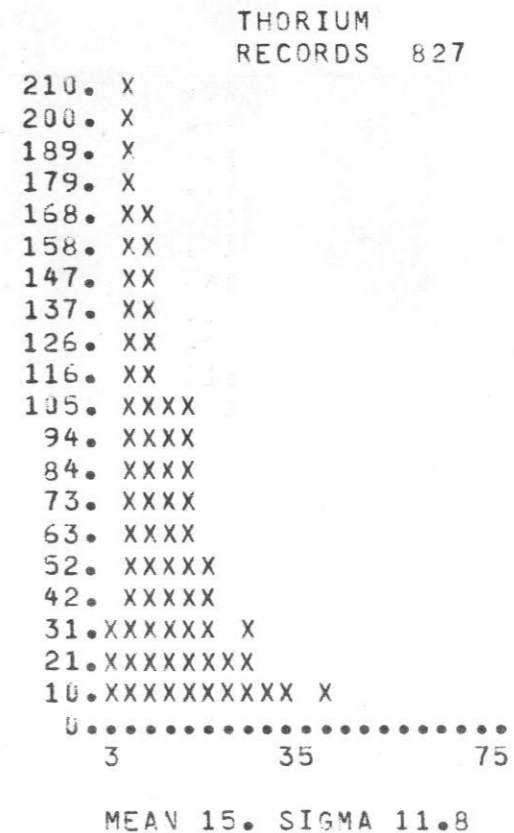
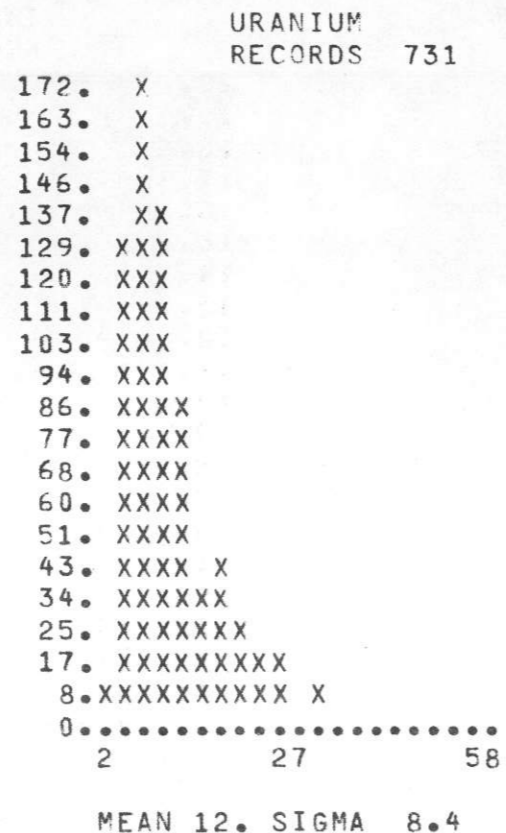
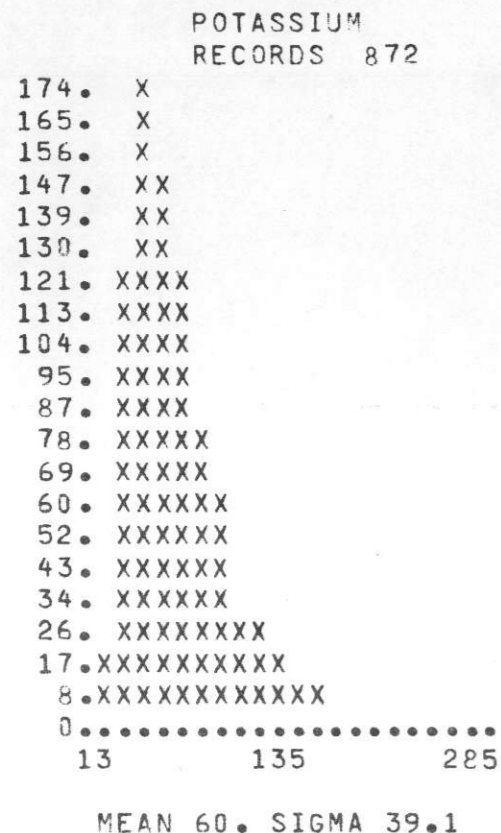


MEAN 2. SIGMA .8

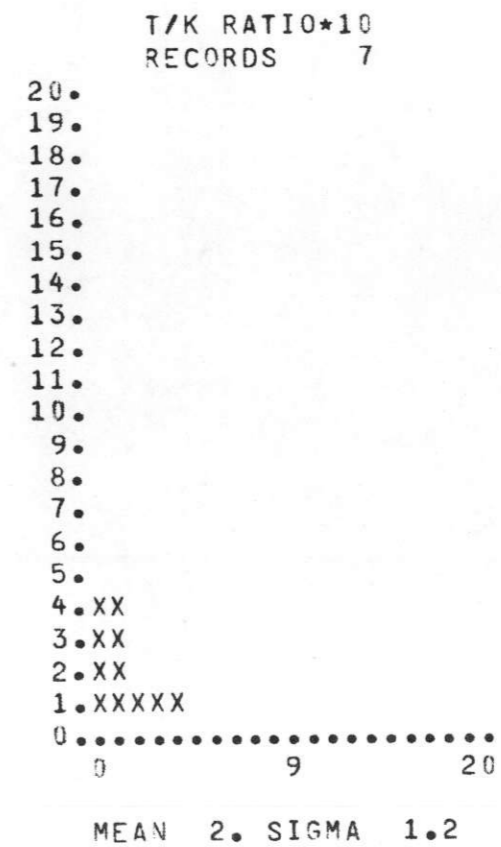
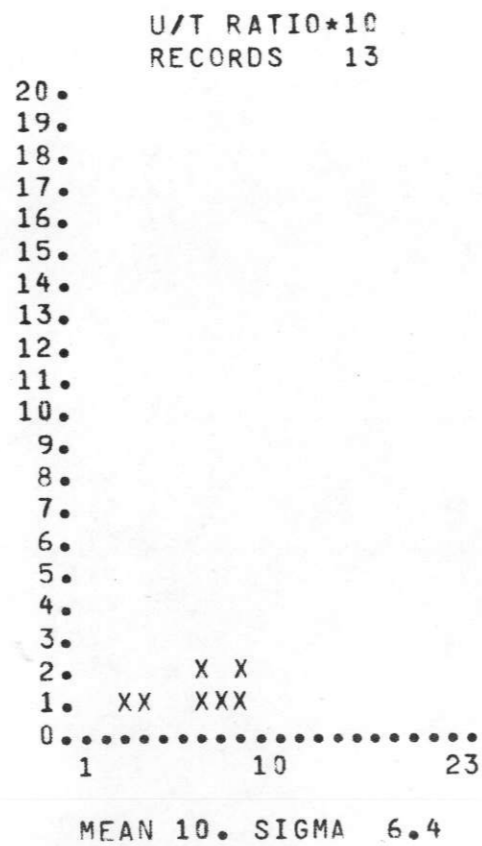
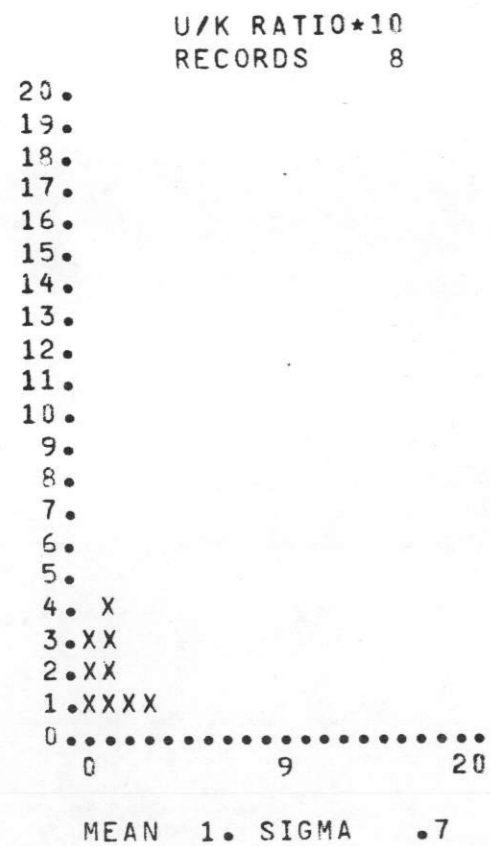
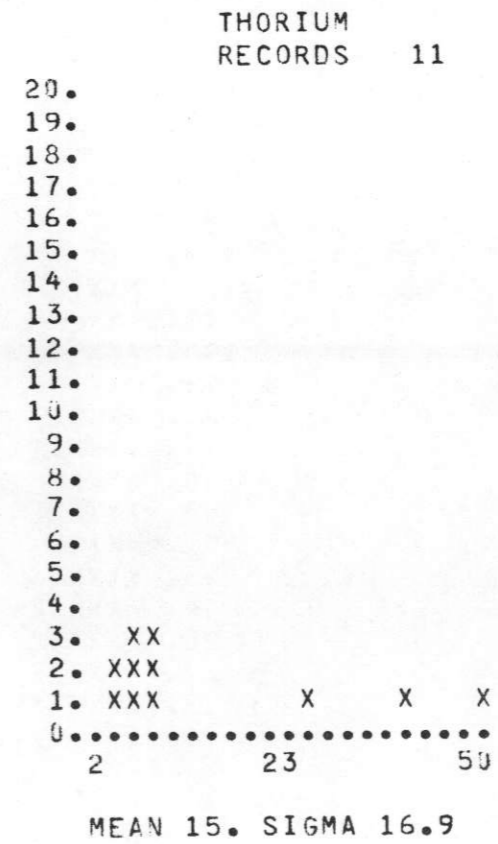
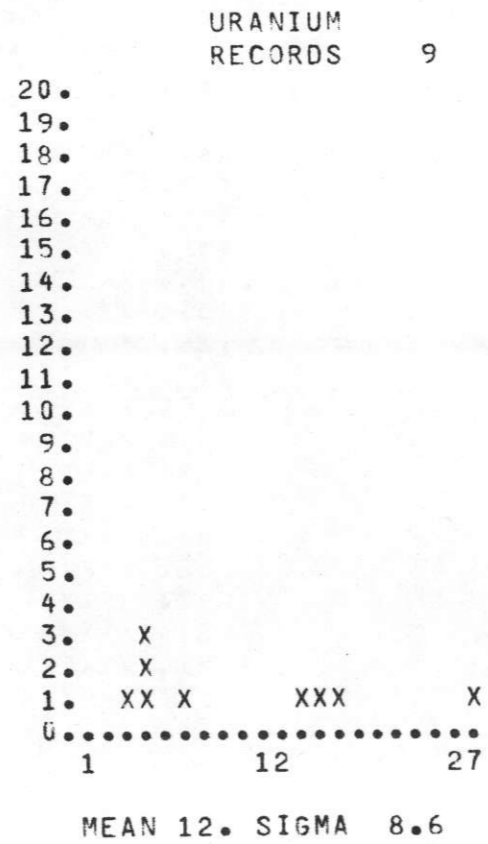
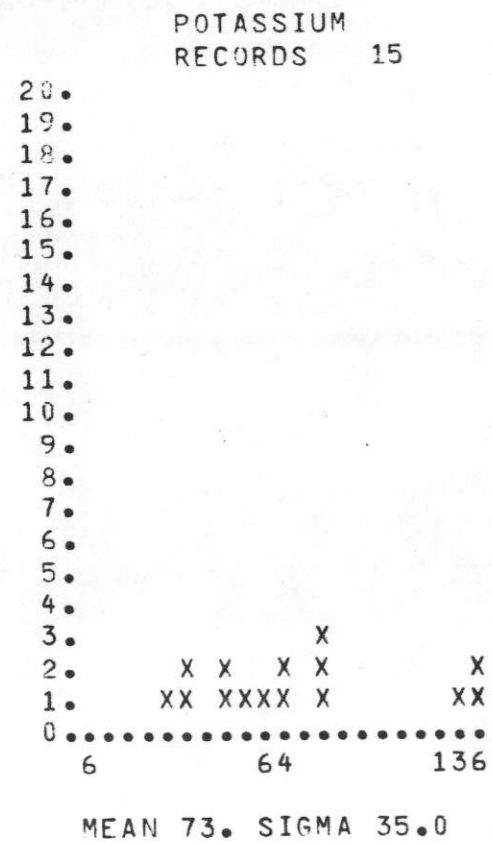
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GEOLOGIC UNIT TMI



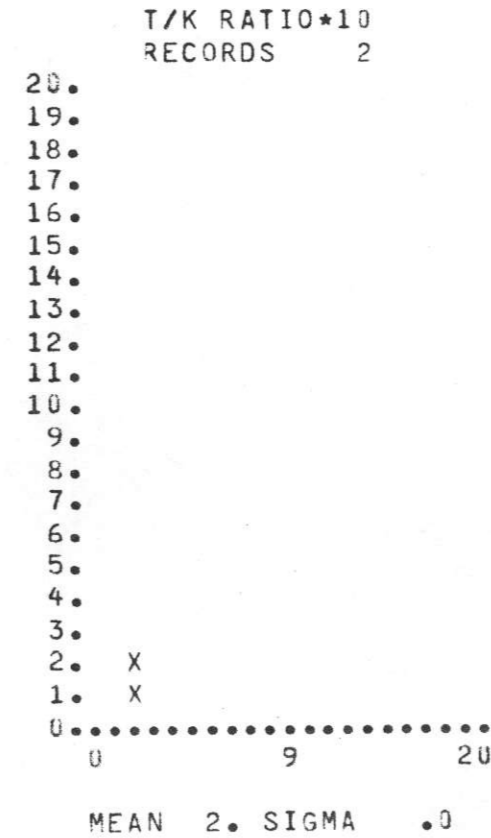
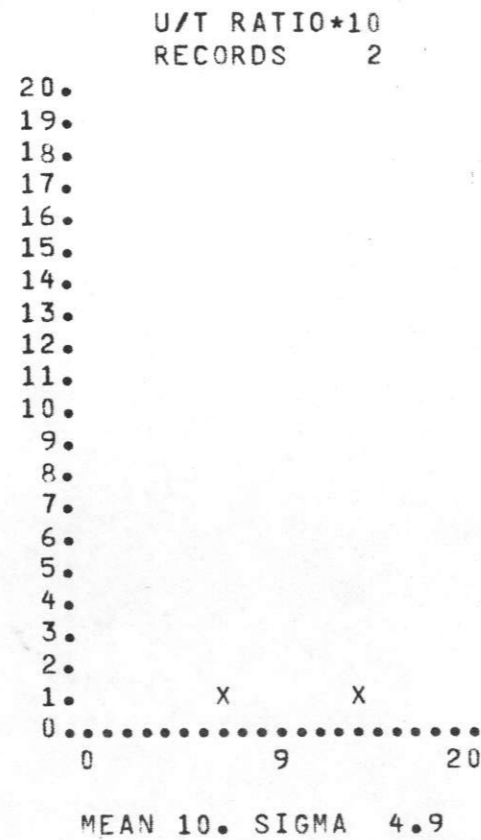
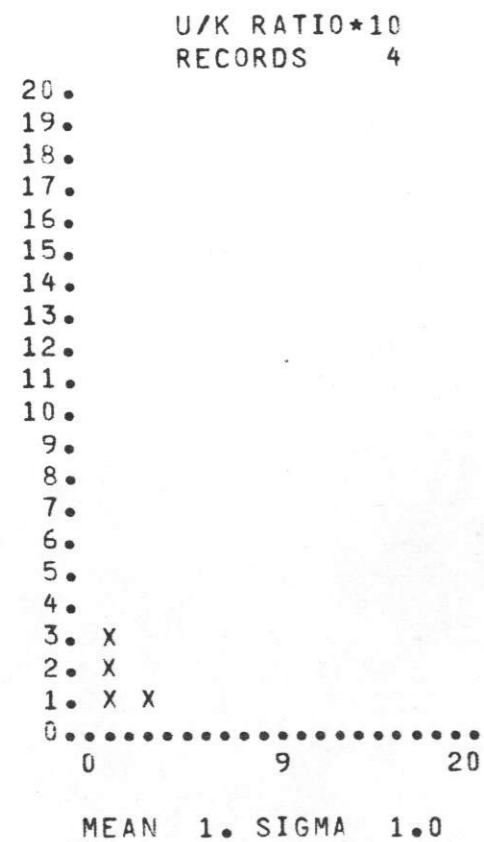
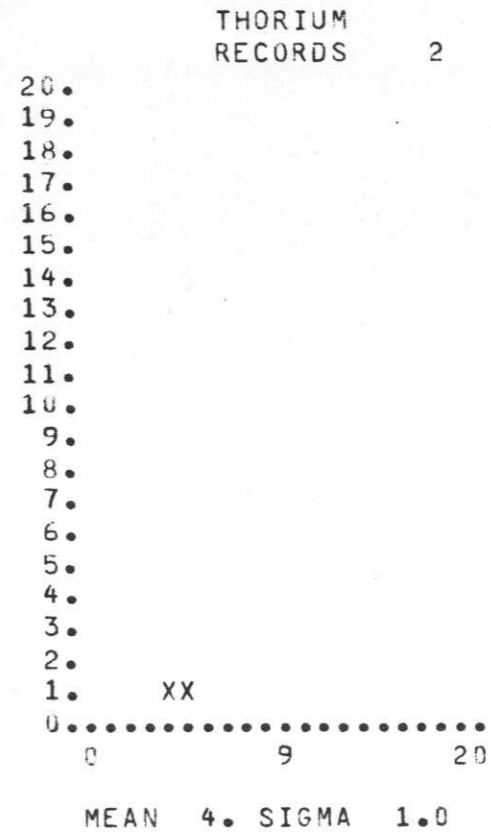
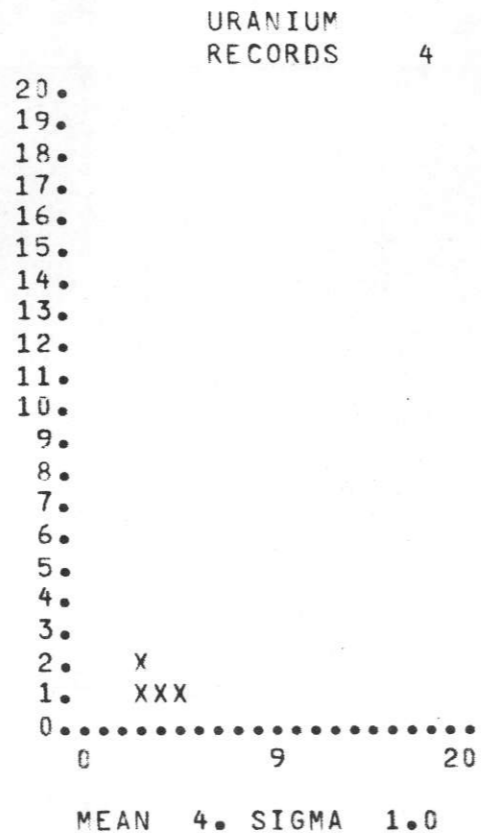
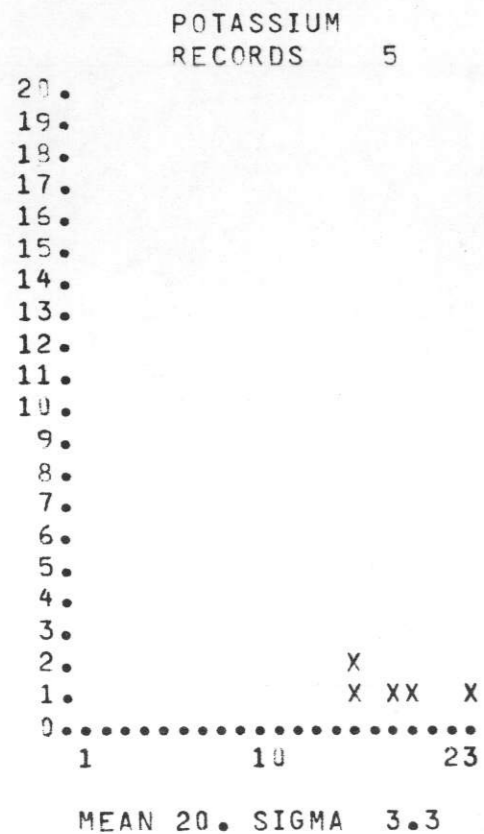
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
GEOLOGIC UNIT KG



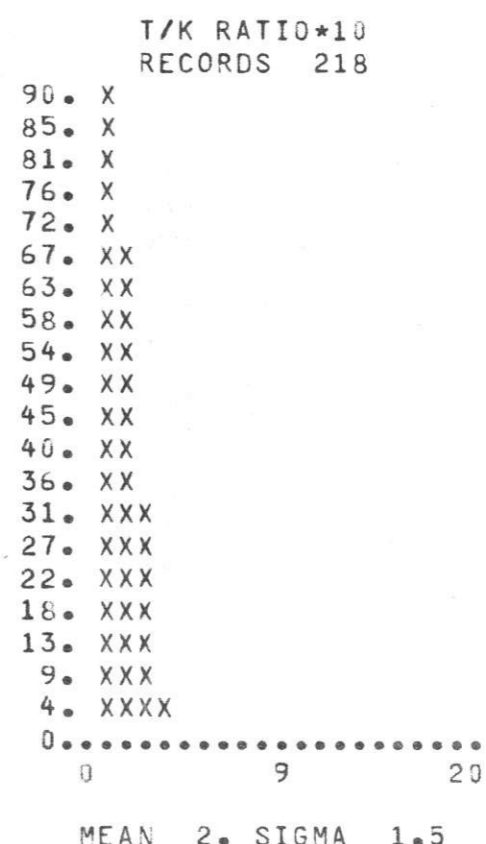
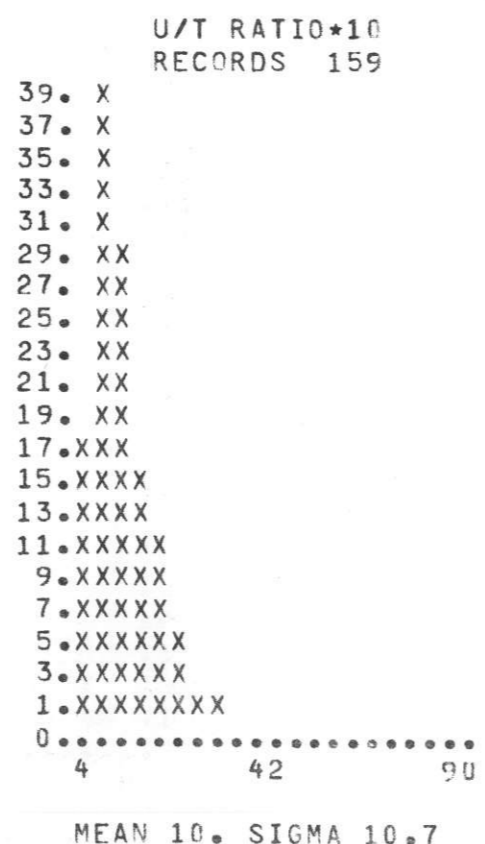
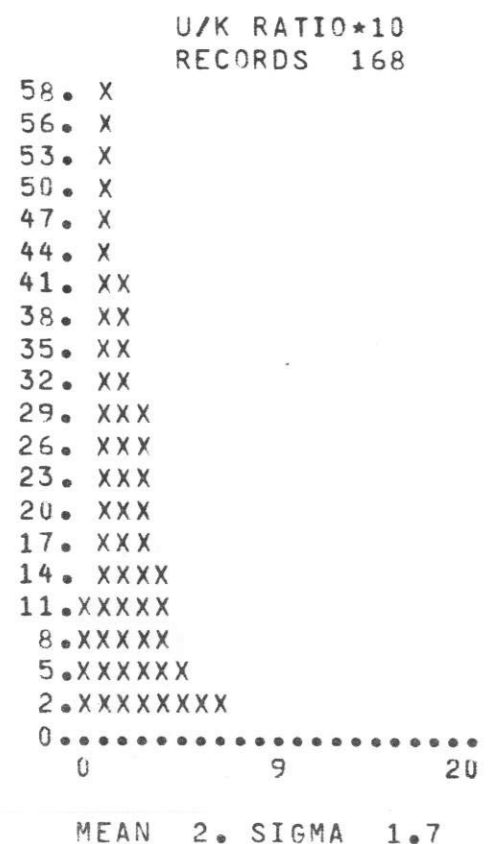
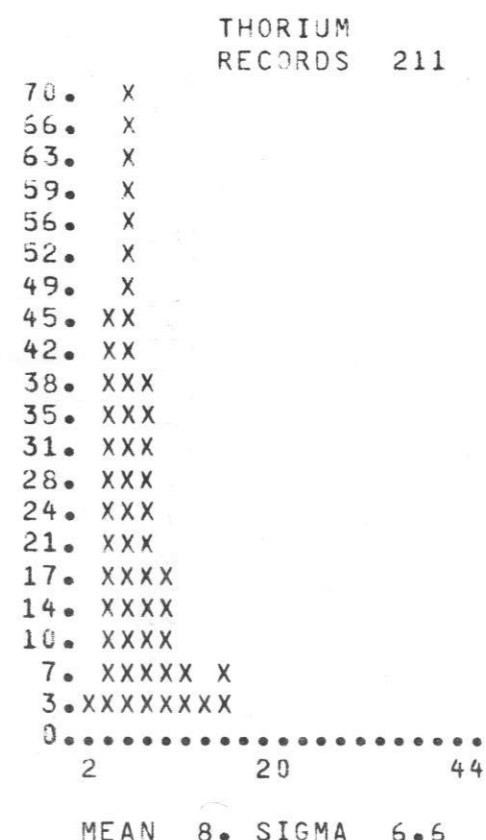
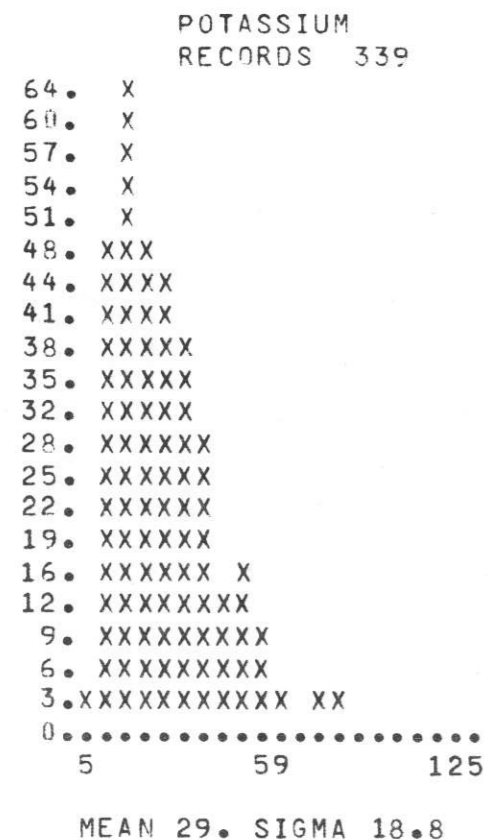
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 GEOLOGIC UNIT TKG



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GEOLOGIC UNIT LK

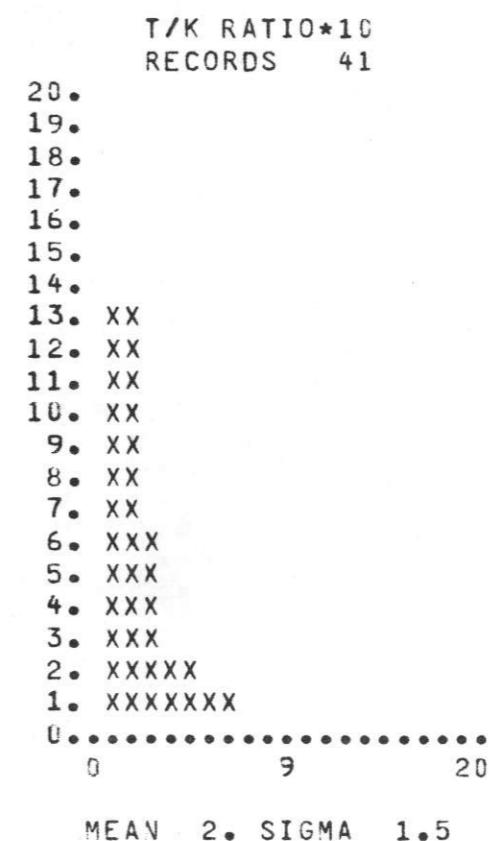
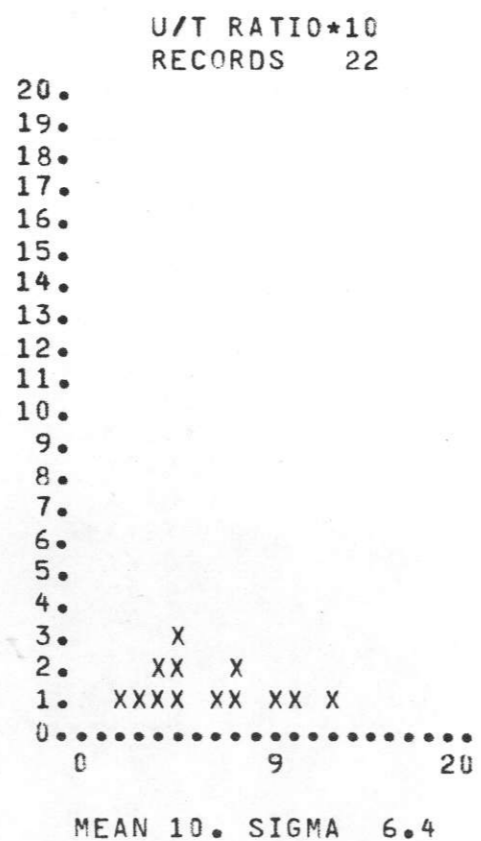
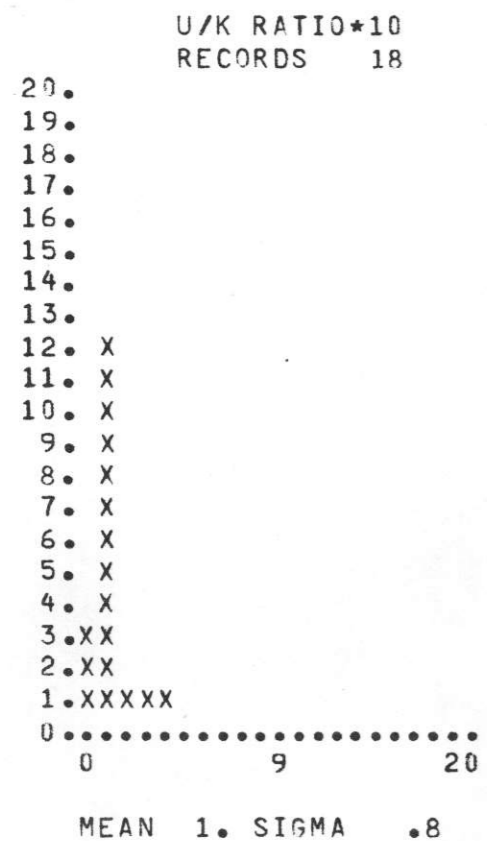
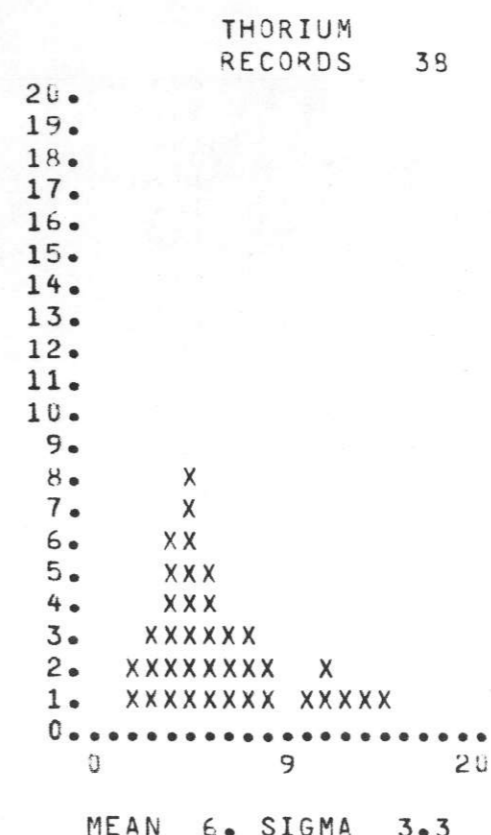
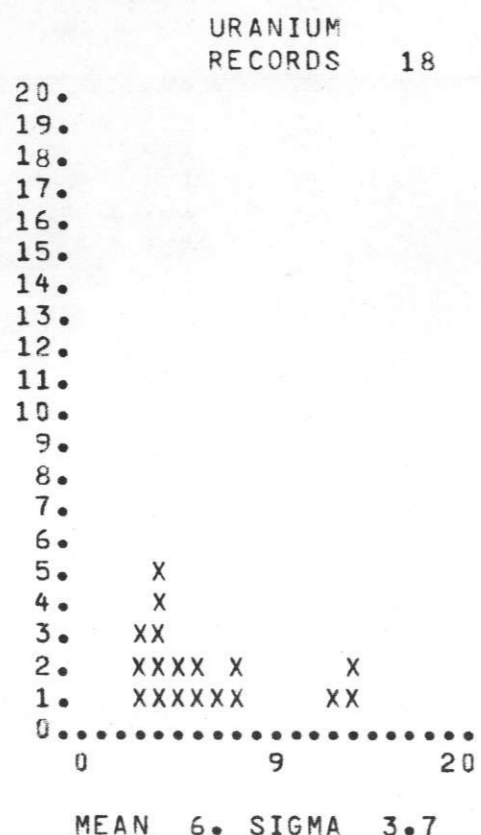
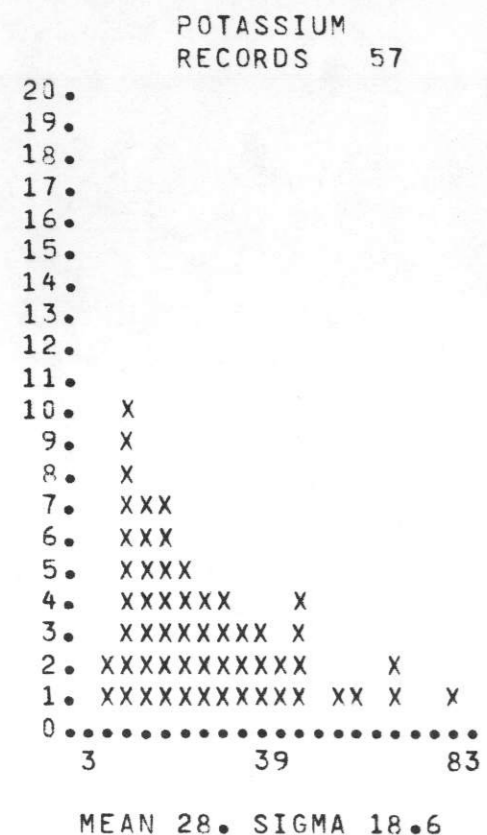


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 GEOLOGIC UNIT KJ

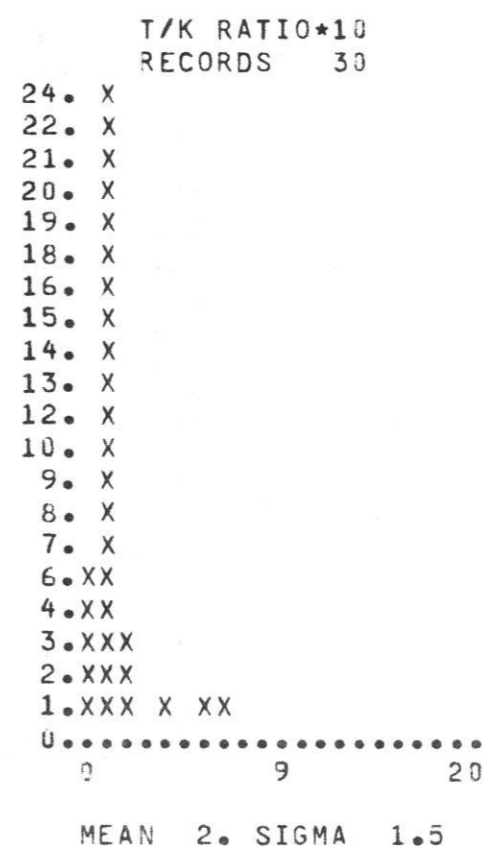
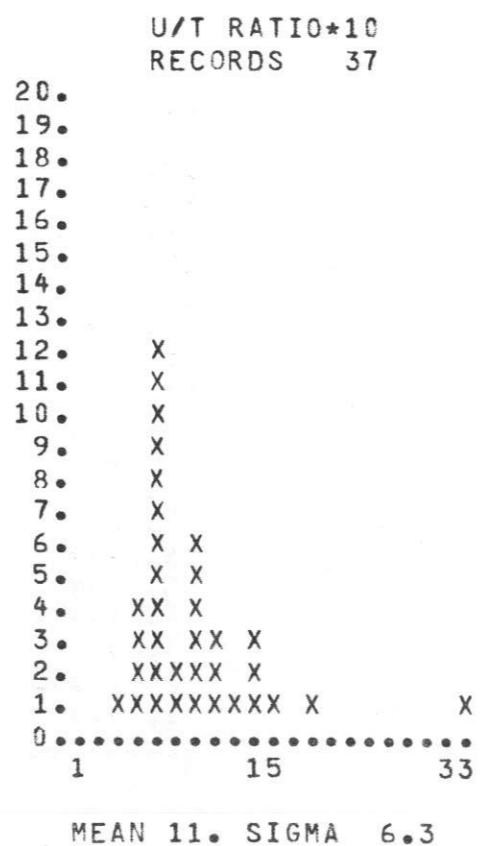
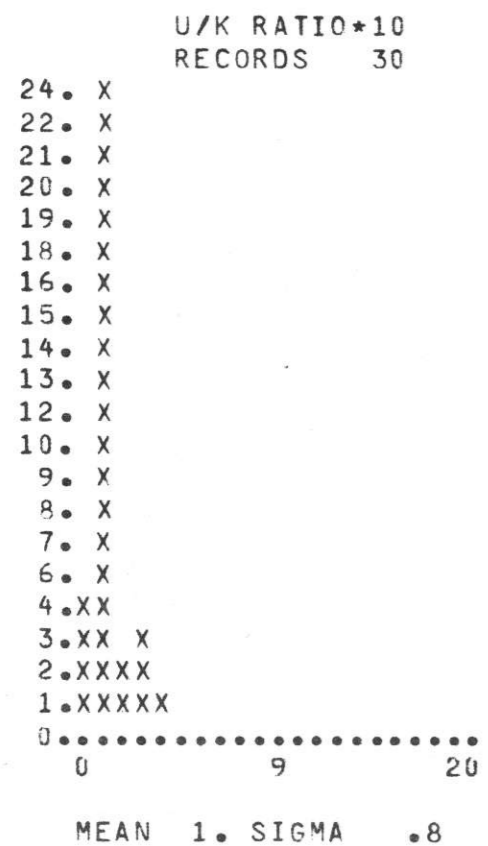
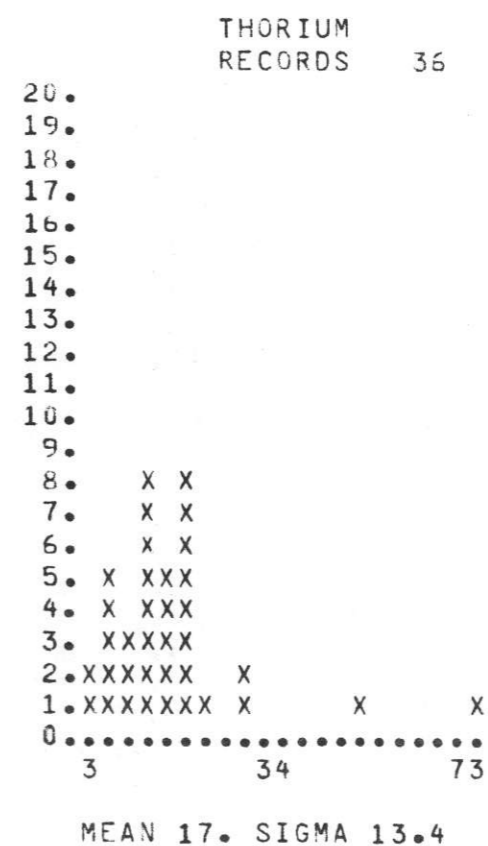
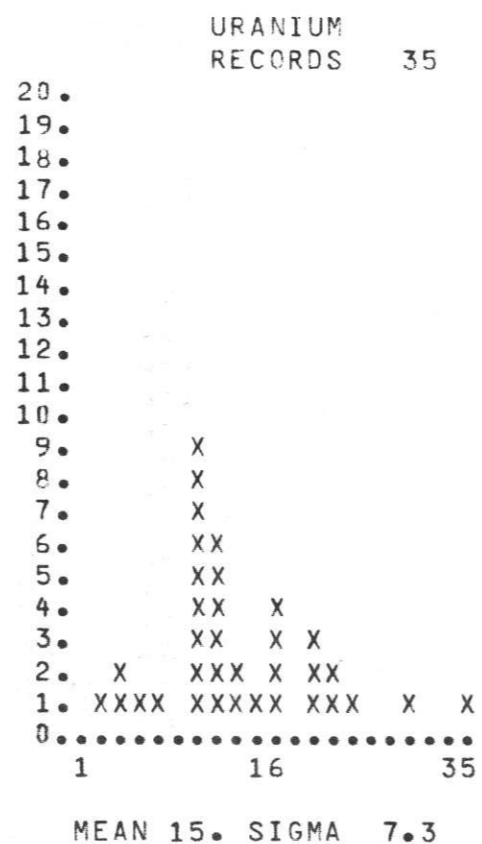
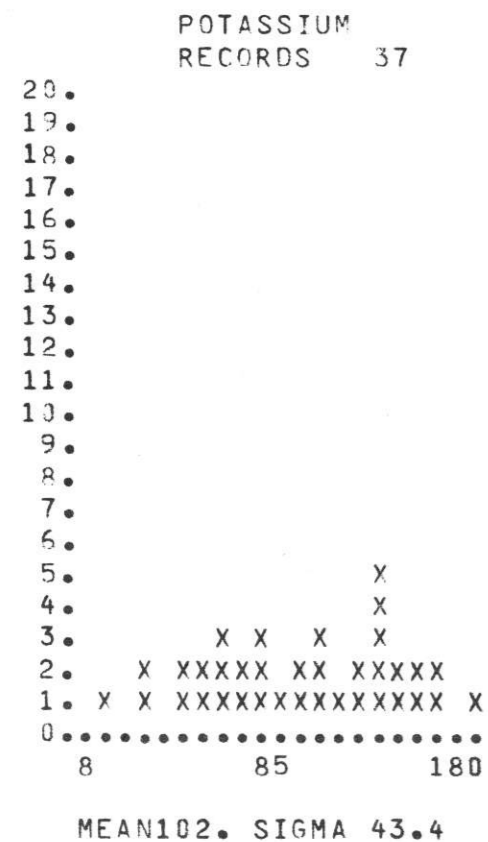




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GEOLOGIC UNIT KJV

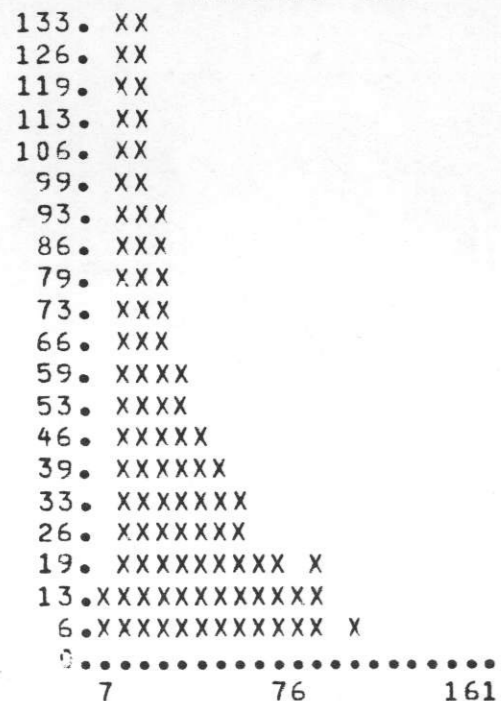


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GEOLOGIC UNIT JTRM



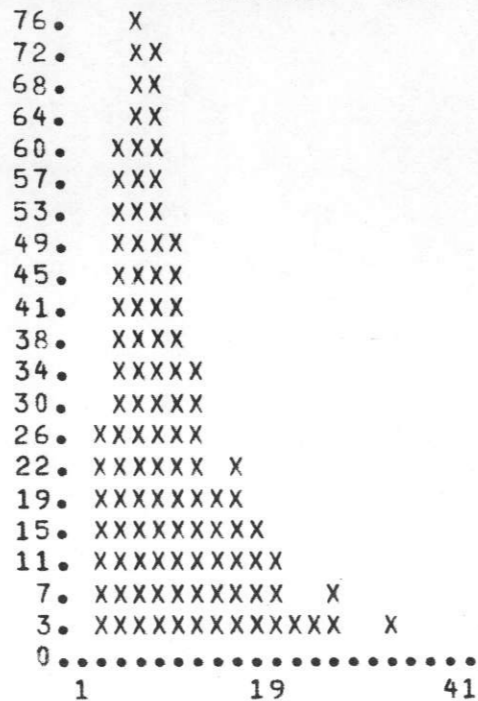
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
 GEOLOGIC UNIT MZPZ

POTASSIUM  
 RECORDS 665



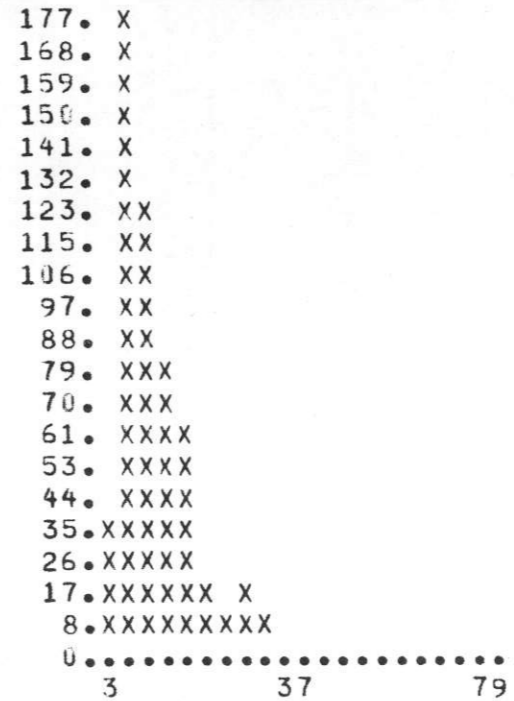
MEAN 36. SIGMA 25.1

URANIUM  
 RECORDS 416



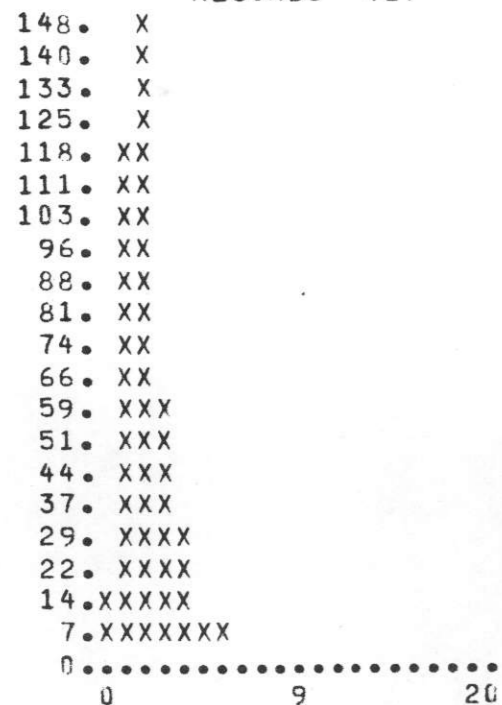
MEAN 10. SIGMA 6.2

THORIUM  
 RECORDS 577



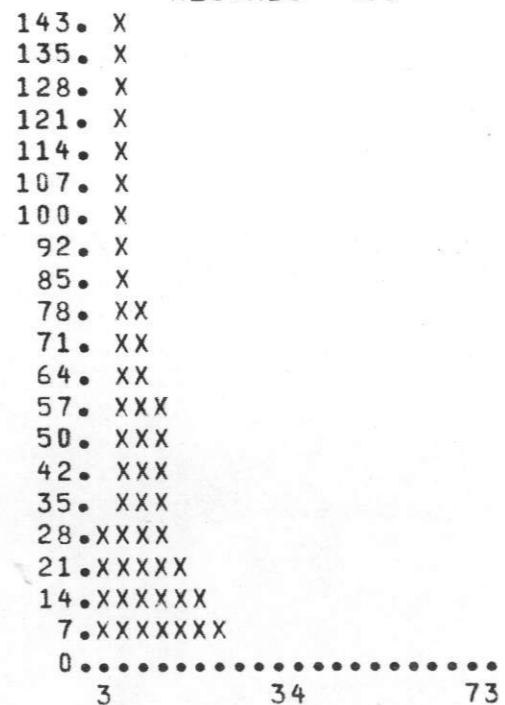
MEAN 12. SIGMA 9.9

U/K RATIO\*10  
 RECORDS 417



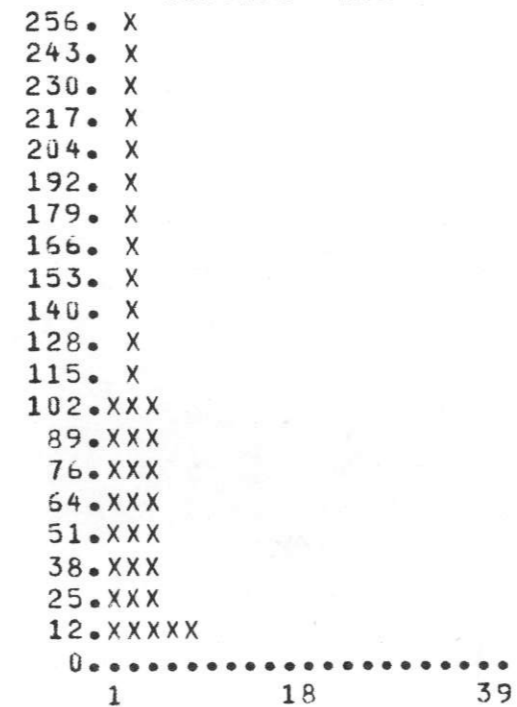
MEAN 2. SIGMA 1.5

U/T RATIO\*10  
 RECORDS 419



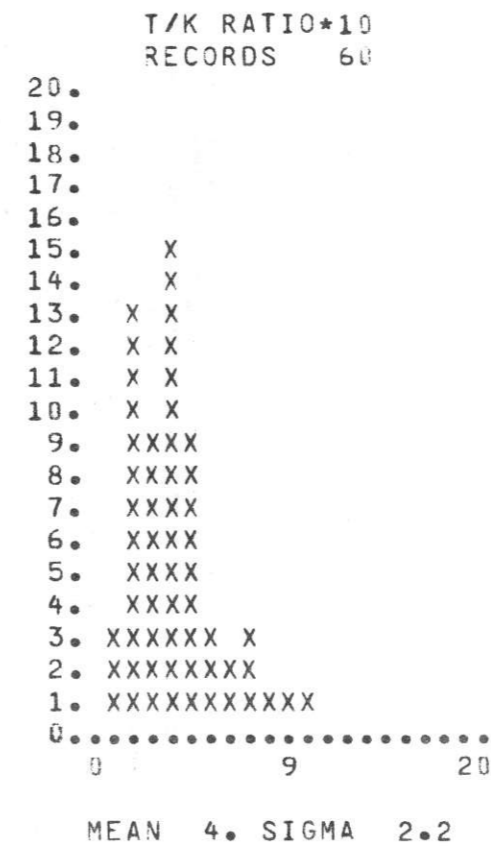
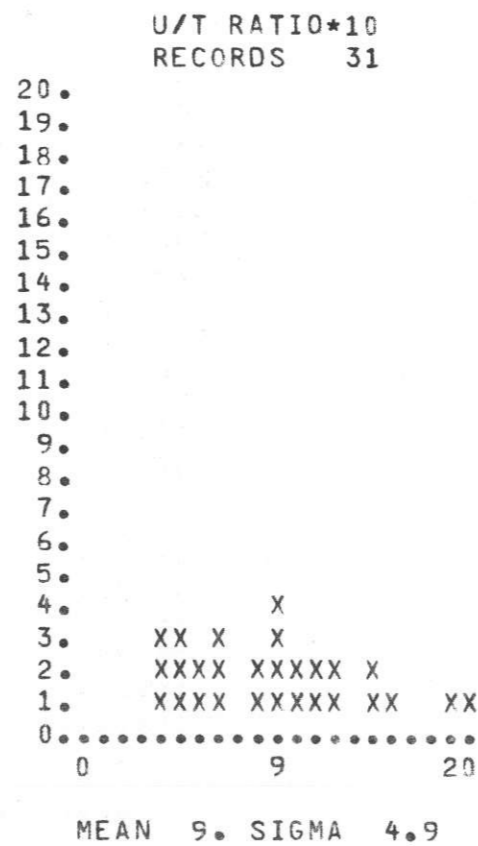
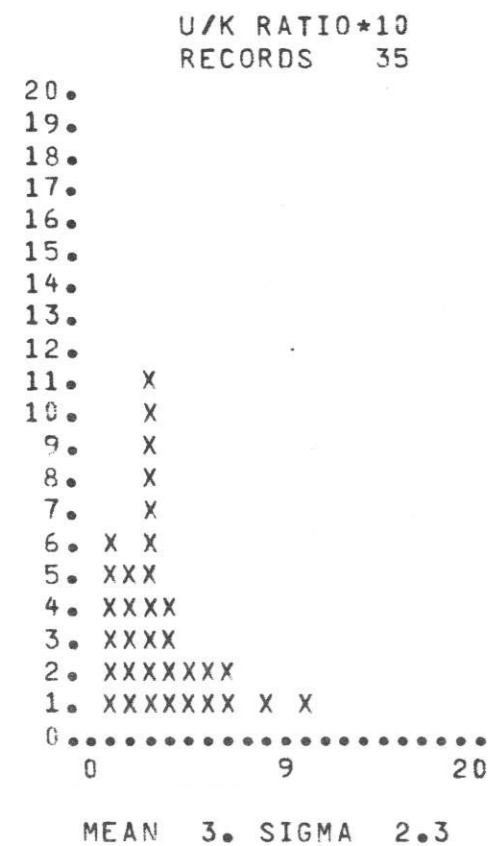
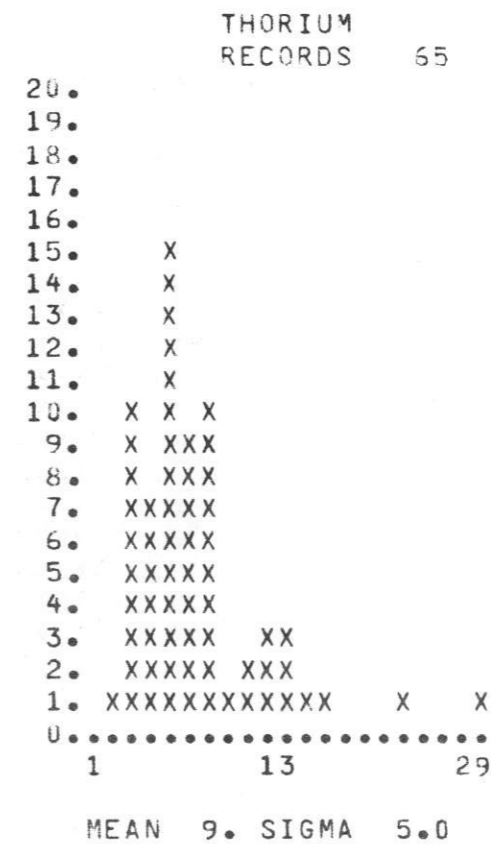
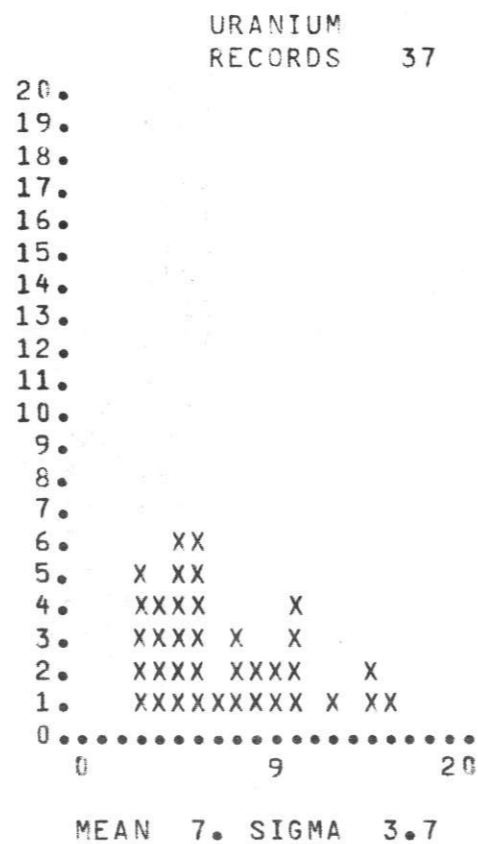
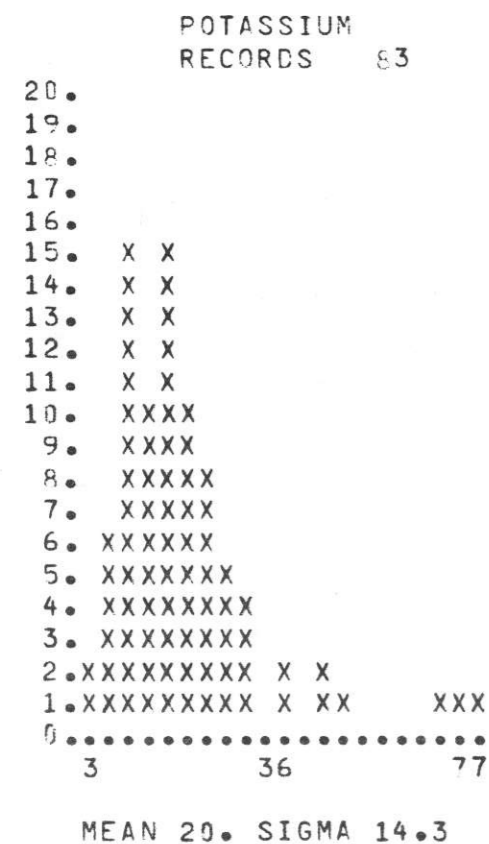
MEAN 10. SIGMA 8.0

T/K RATIO\*10  
 RECORDS 522

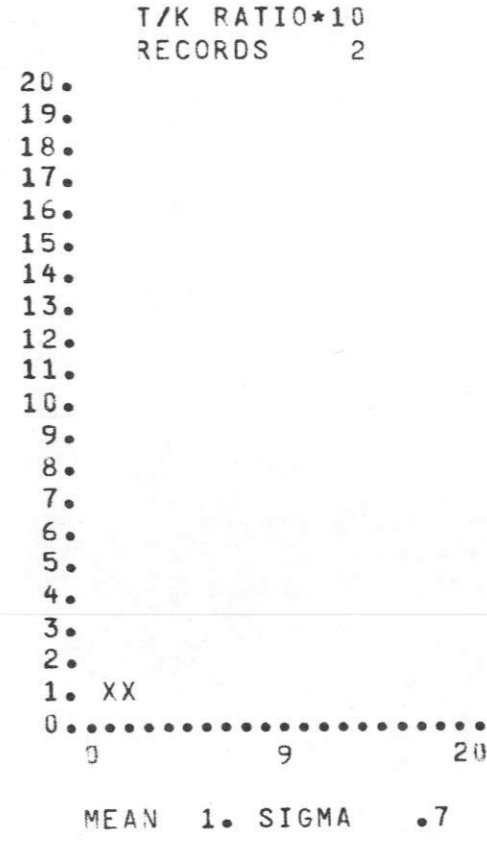
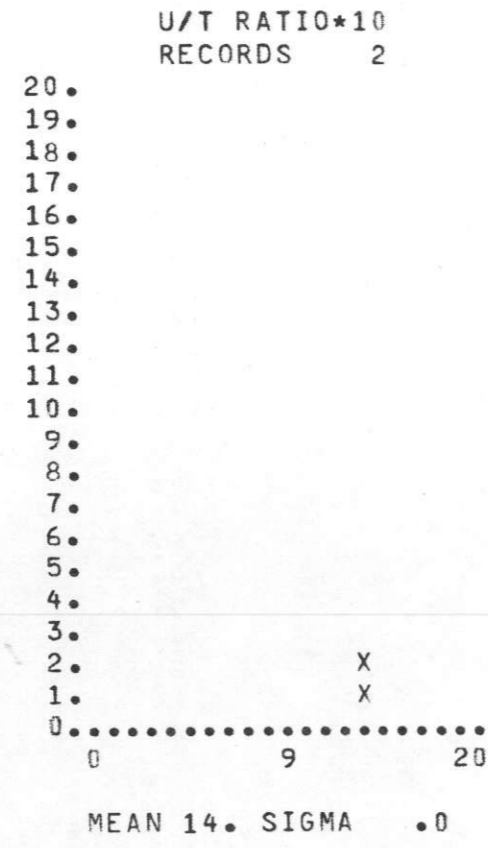
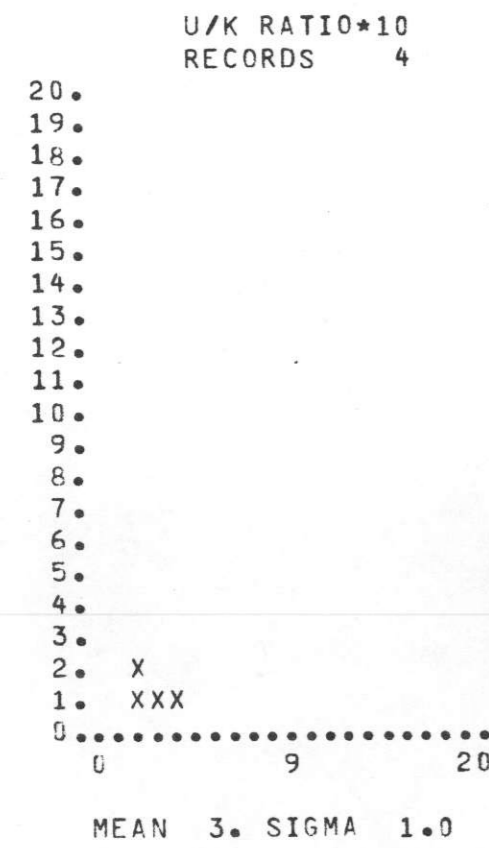
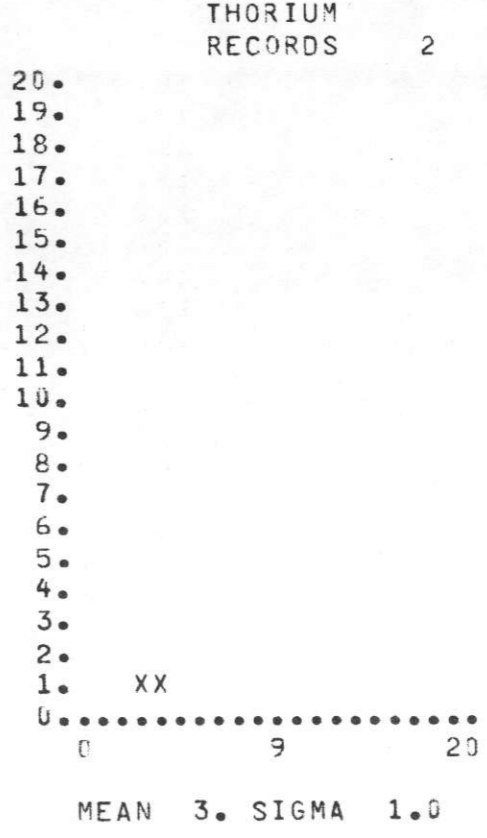
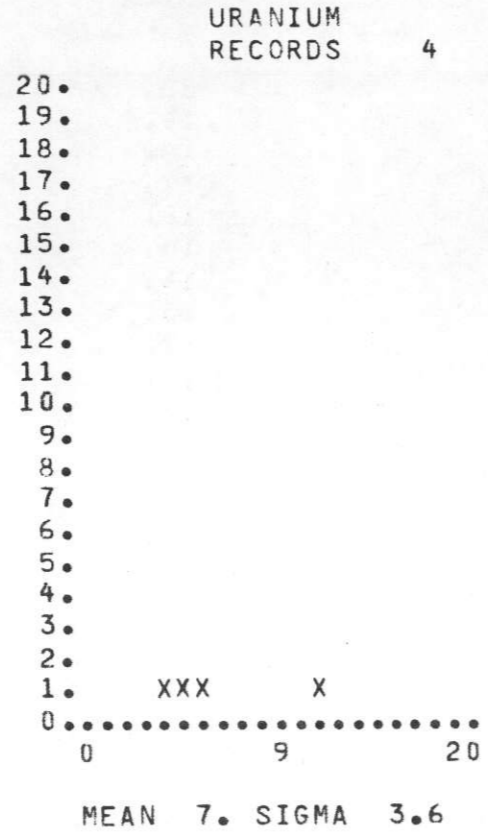
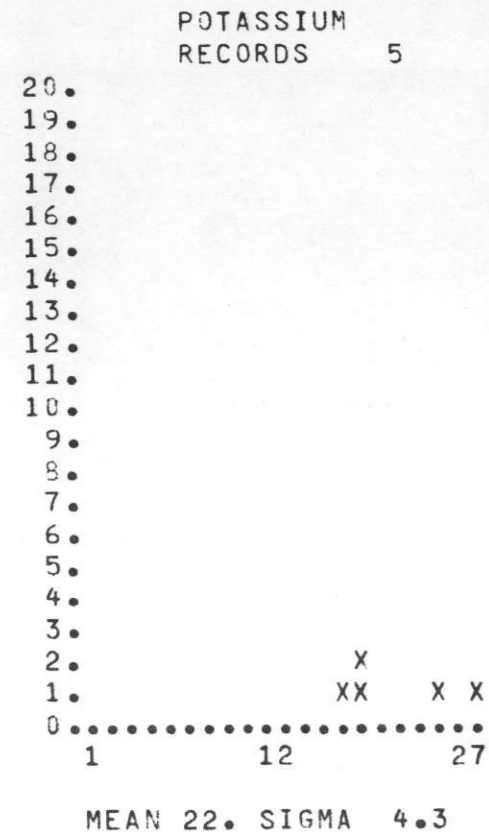


MEAN 3. SIGMA 3.5

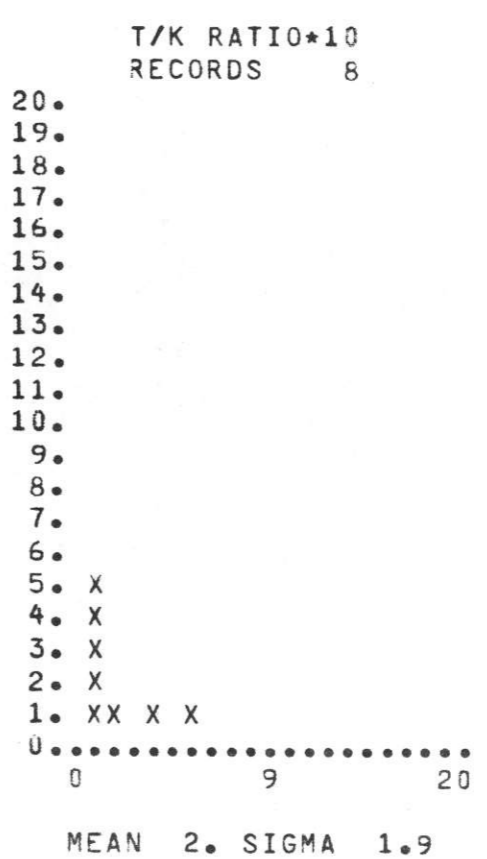
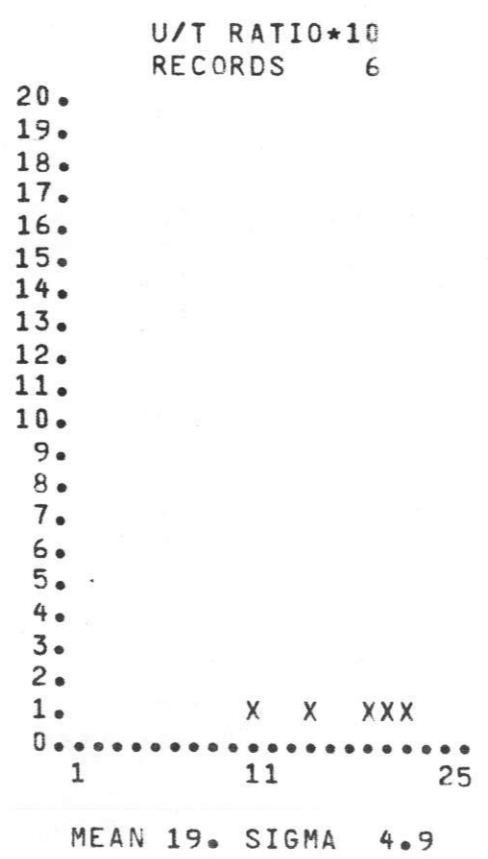
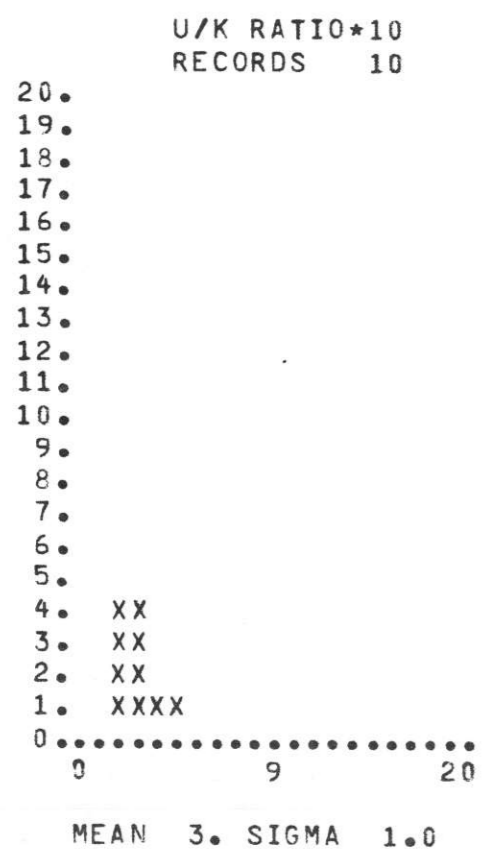
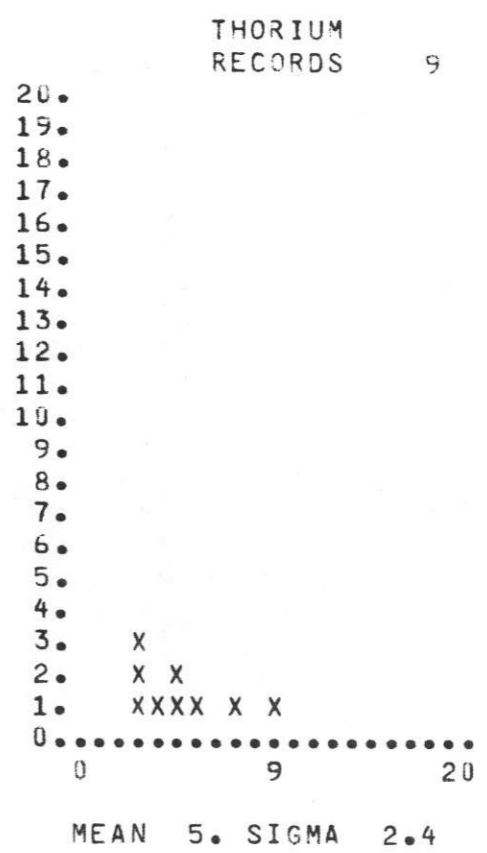
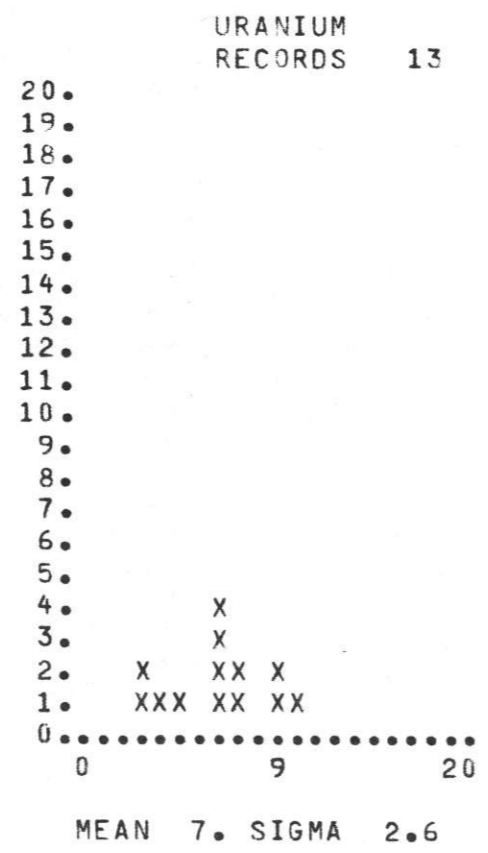
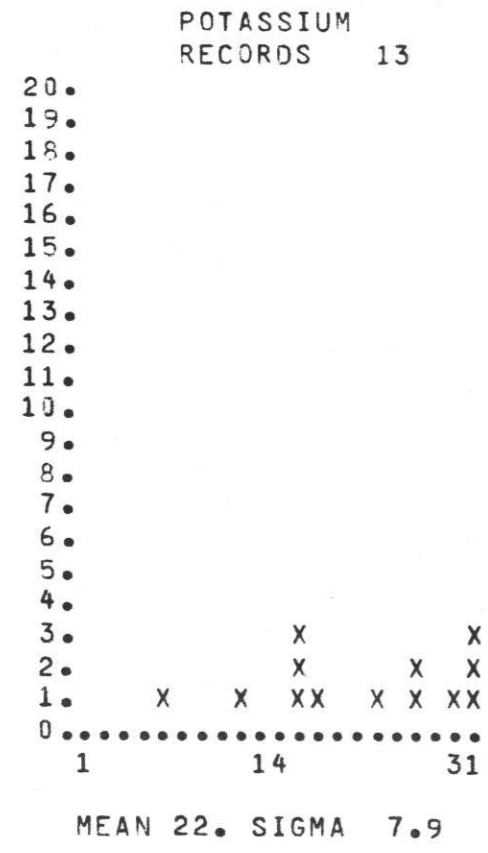
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GEOLOGIC UNIT MZPZV



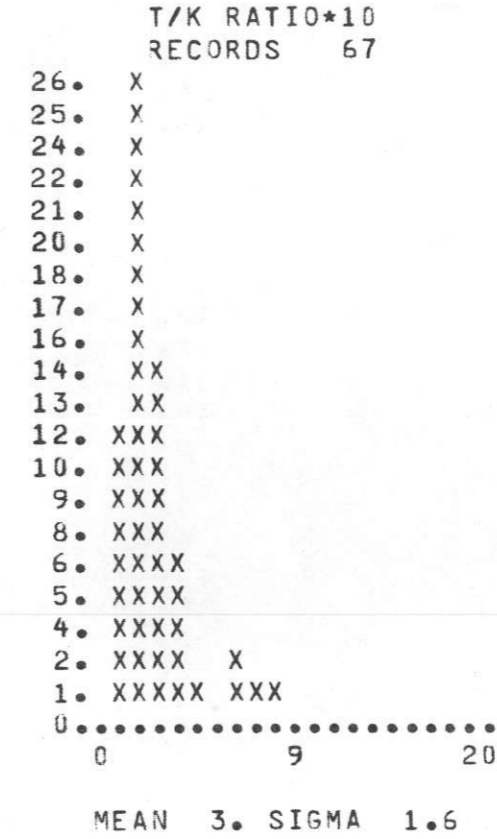
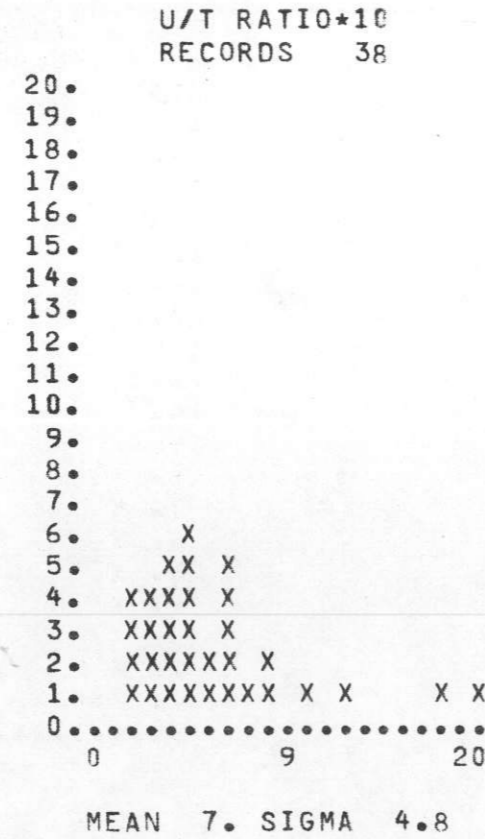
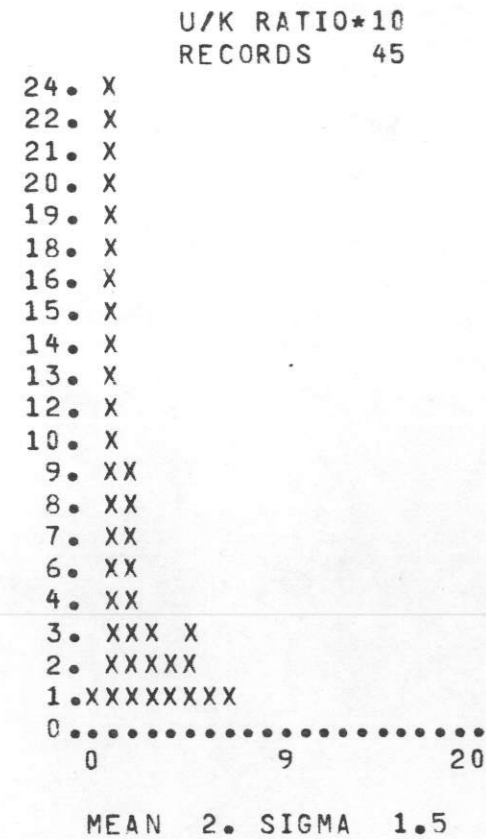
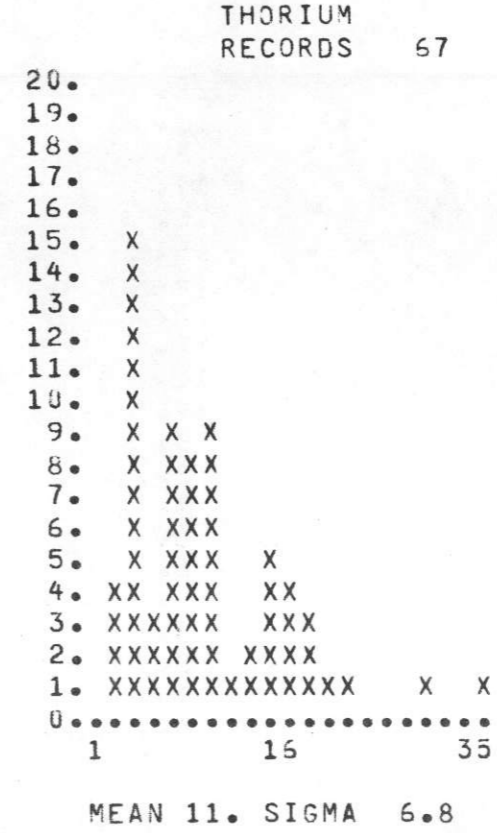
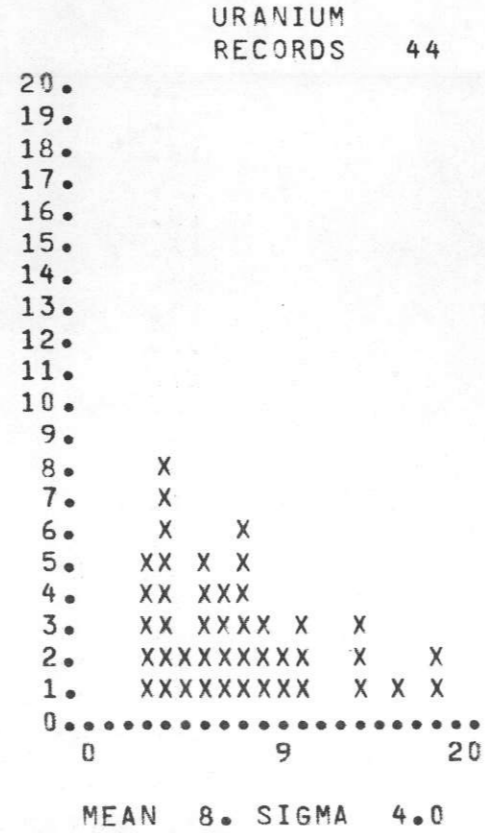
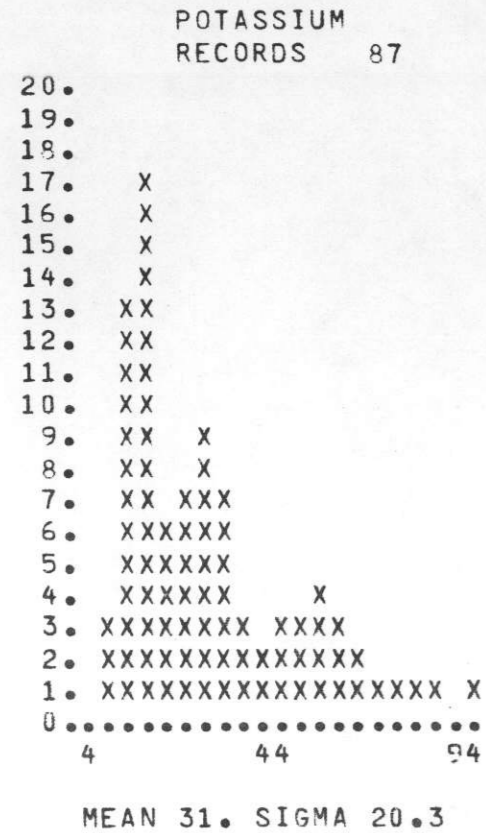
SUMDUM/PETERSBURG/BRADFIELD CANAL SE ALASKA 1976-1978  
 GEOLOGIC UNIT KQ



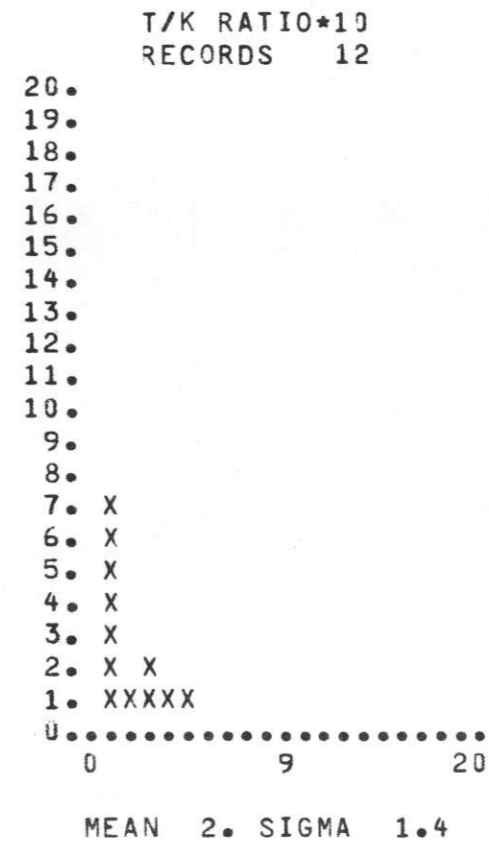
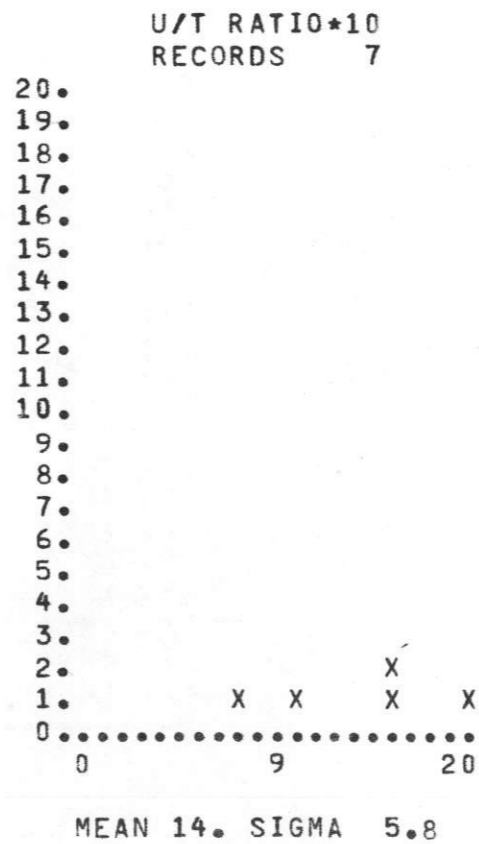
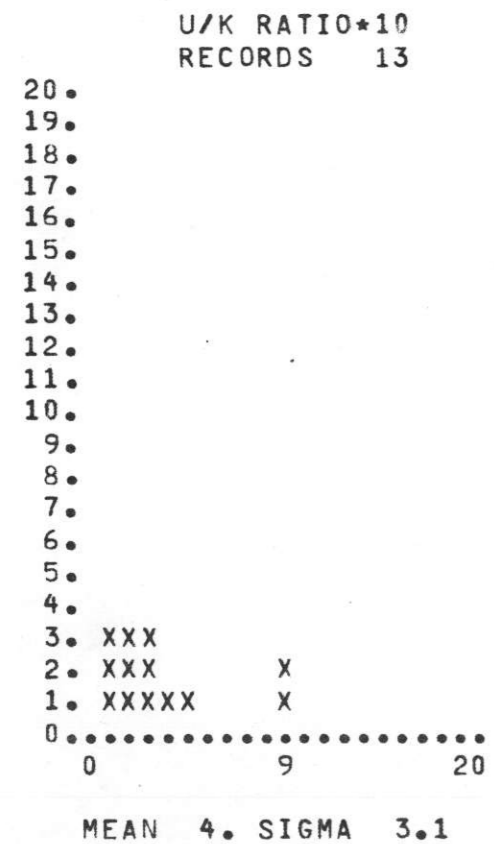
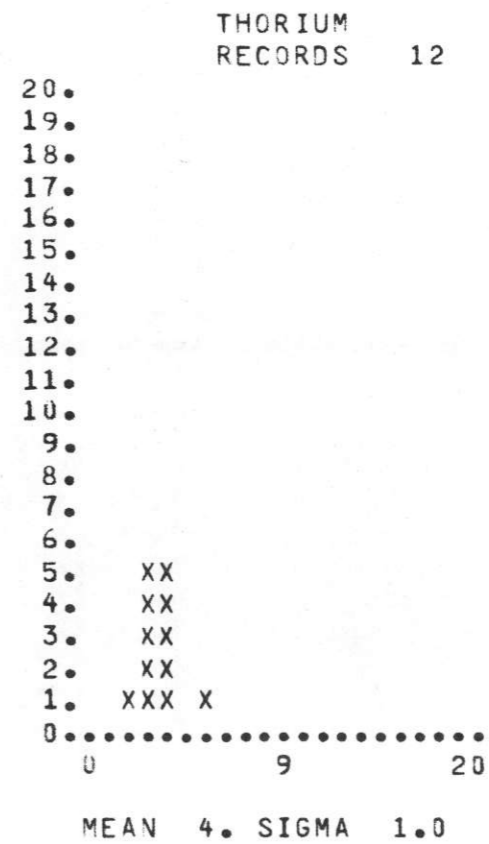
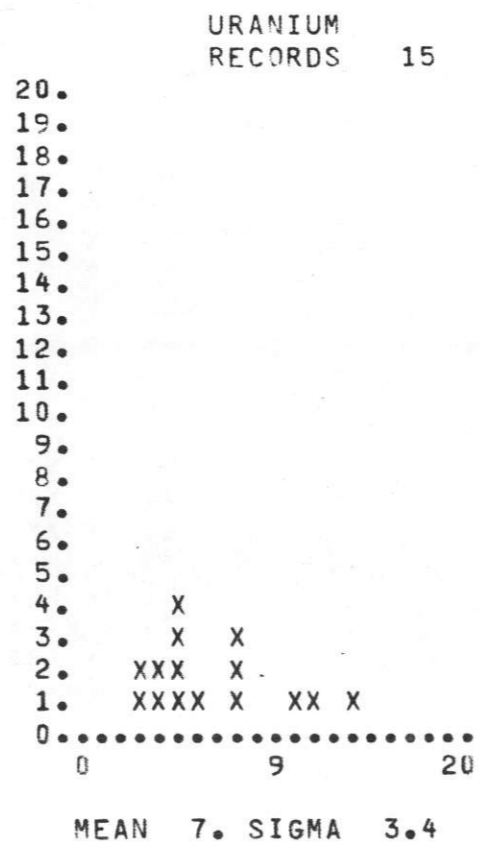
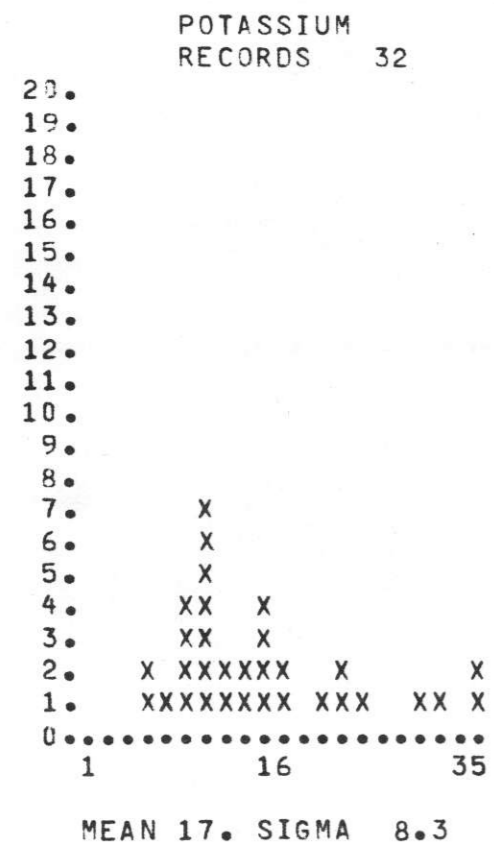
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GEOLOGIC UNIT P



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GEOLOGIC UNIT D

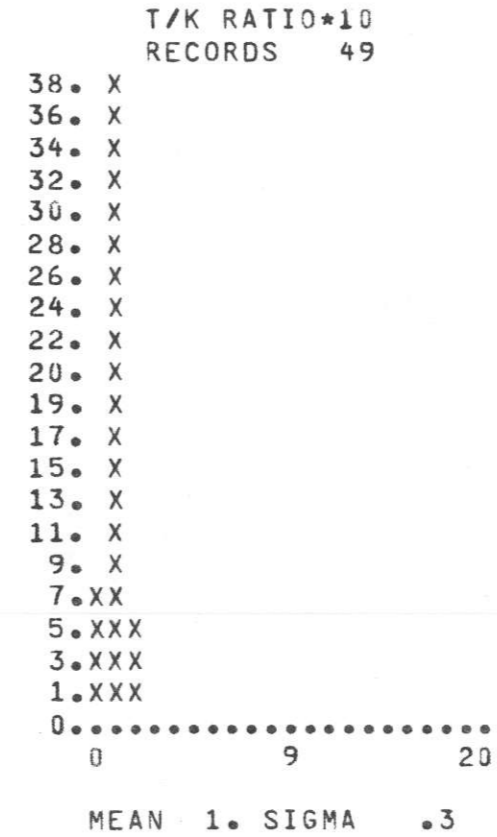
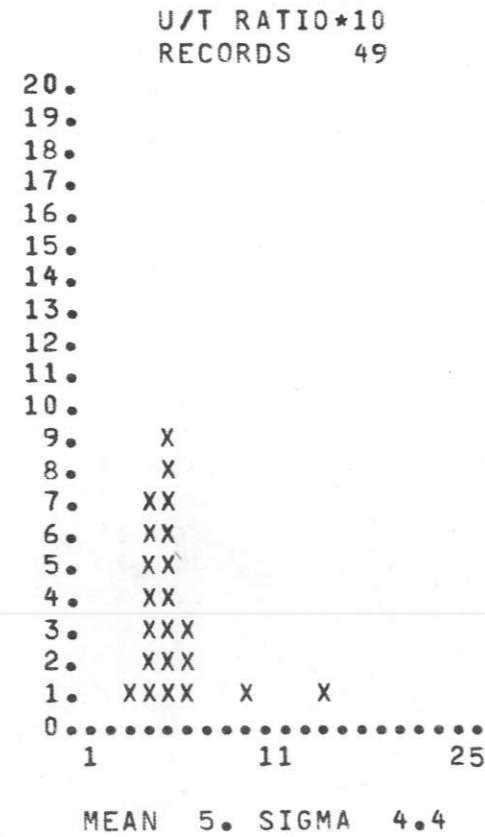
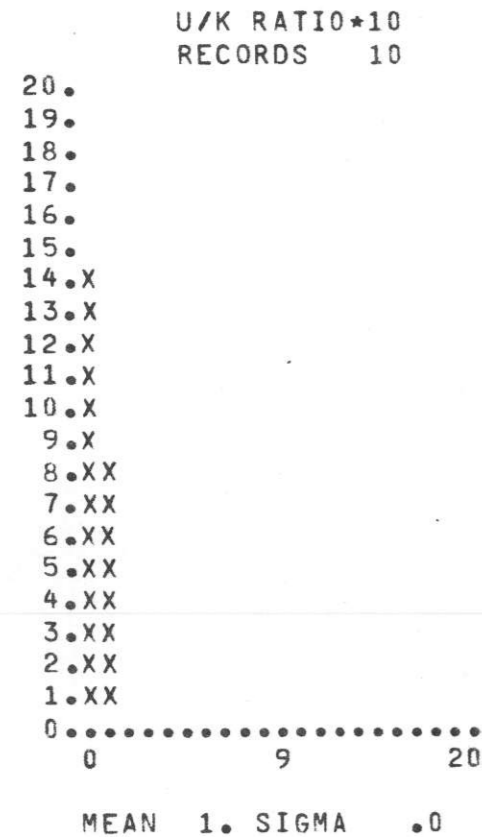
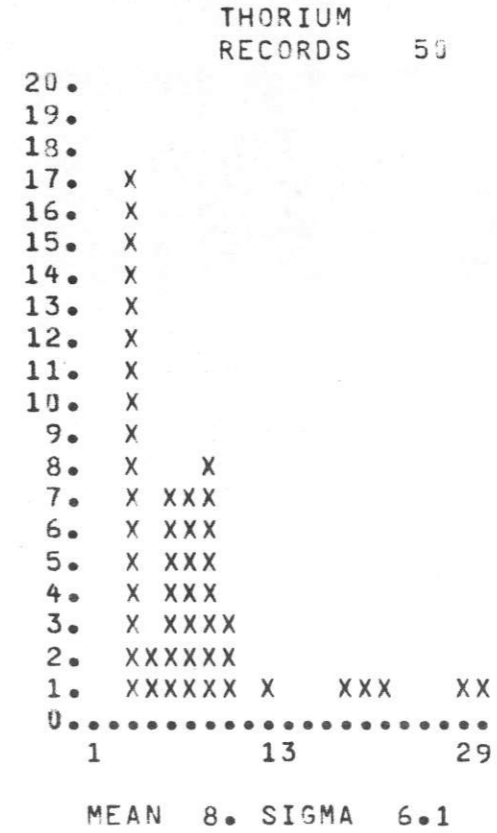
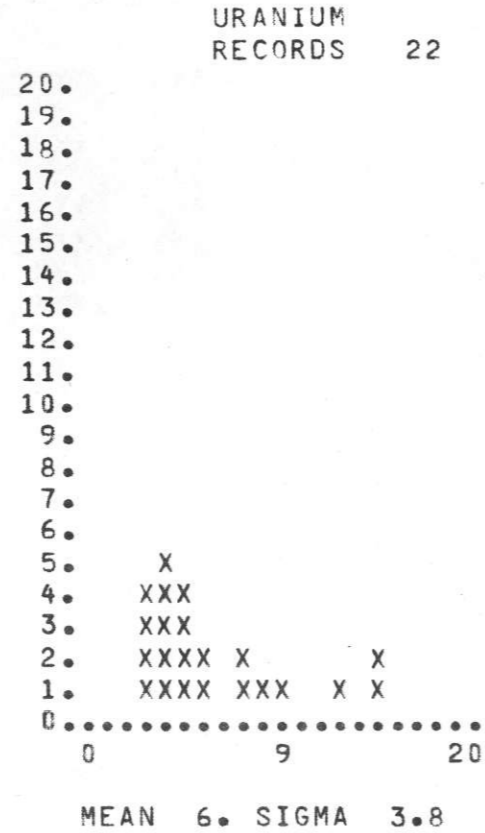
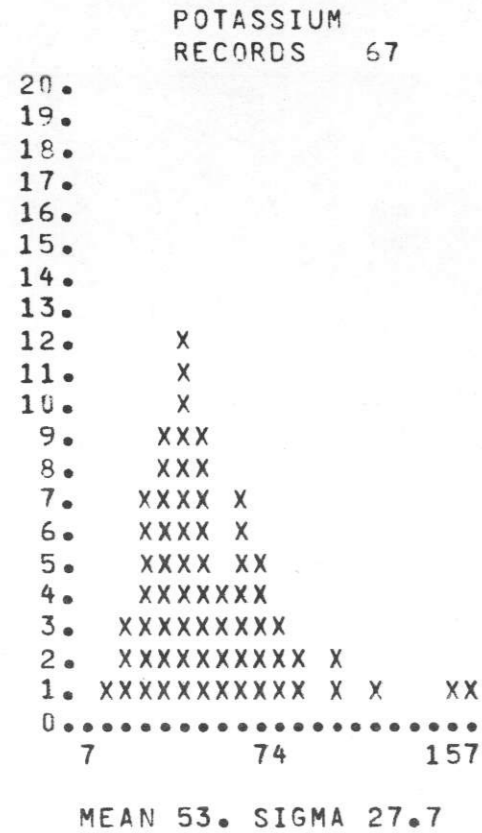


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