

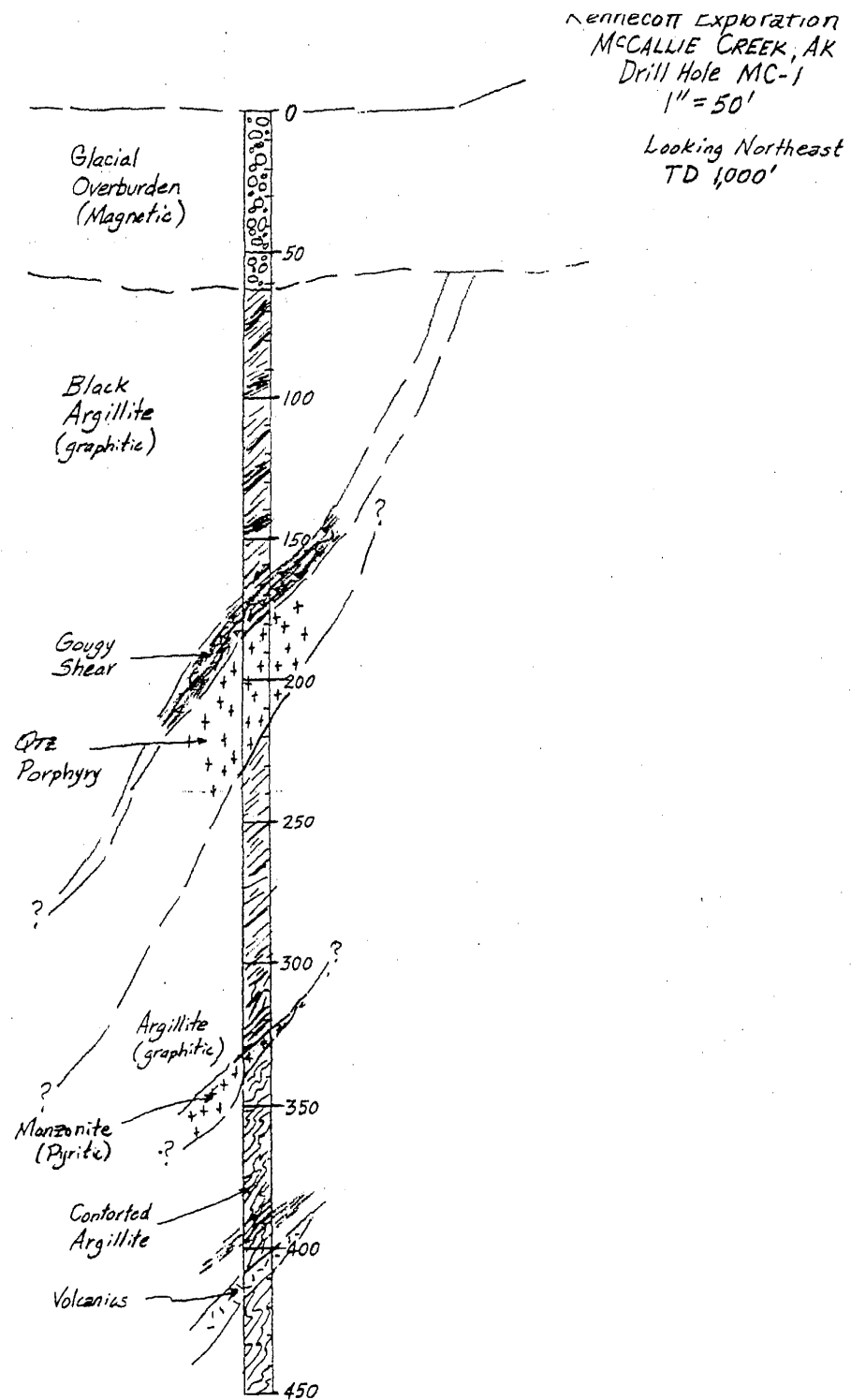
Geologic log of the Kennecott Exploration McCallie Creek MC-1 exploratory hole, Healy A-6
Quadrangle, Alaska.



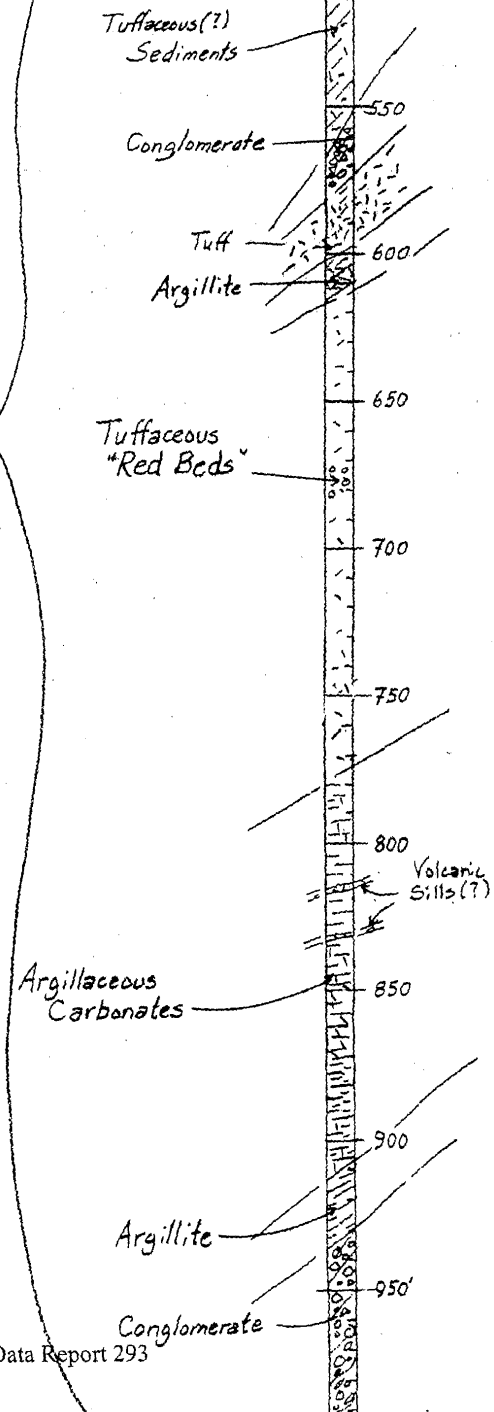
Received 18 April 2000.

Total of 22 pages in report.

Alaska Geologic Materials Center Data Report No. 293



Possible
"Red Bed"
Group



KENNECOTT EXPLORATION

PROPERTY McCALLIE CREEK, AK COORDINATE SYSTEM UTM- Zone 6

NORTHING 6,997,986. N COLLAR ELEV. 4,859.1 BEARING _____ START DATE Aug 23, 1997 SCALE 1" = 10' HOLE MC-1
 EASTING 351,856. E TOTAL DEPTH 1,000.1 INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 1 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | |
|--------------|---------------|---|-------|--|----------------|------|--|---------------|----------------|----|----|----|----|----|------|
| Drill Run | Total Core | % | | | | | | Sample No. | Intv. (ft.) | Cu | Pb | Zn | Ag | Au | Sus |
| Report 205 | | | | 0-61': Glacial Overburden: Clay and rock fragments. Dominantly retrograde altered basalt(?) with calcite, chlorite, actinolite, pyroxene rich hornfels. Very magnetic. | | | | | | | | | | | — |
| | | | 10' | | | | | | | | | | | | 9.31 |
| | | | | | | | | | | | | | | | 23.9 |
| | | | 20' | | | | | | | | | | | | 50.7 |
| | | | | | | | | | | | | | | | 35.3 |
| | | | 30' | | | | | | | | | | | | 8.45 |
| | | | | | | | | | | | | | | | 10.8 |
| | | | 40' | | | | | | | | | | | | 0.49 |
| | | | | | | | | | | | | | | | 45.3 |
| | | | 50' | | | | | | | | | | | | 13.1 |
| | | | | | | | | | | | | | | | 55.1 |
| | | | 60' | | | | | | | | | | | | 0.64 |

KENNECOTT EXPLORATION

PROPERTY M^cCALLIE CREEKCOORDINATE SYSTEM UTM-ZoneNORTHING
EASTING

COLLAR ELEV.

BEARING

START DATE

SCALE

HOLE MC-1

TOTAL DEPTH

INCLINATION

END DATE

BY

PAGE 2 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | | | |
|-------------------|---------------|---|-------|---|----------------|------|--|---------------|---------------|----|----|----|----|----|-----|---|--|
| Drill Run | Total Core | % | | | | | | Sample No. | Intv. (FL) | Cu | Pb | Zn | Ag | Au | Sus | | |
| 293 Report 293 | | | 60' | 61-175: Siliceous Argillite. Black siliceous argillite with graphitic shears. Discontinuous calcite network veins @ 63-84', 121-126' | | | Fine grained disseminated pyrite (<0.1%). Pyrite local in clots and v.fine gr. in 1/4-1" beds to +1.0% | SP39501 | | | | | | | | 500-910-920-930-940-950-960-970-980-990-1000- | |
| | | | 70' | Bedding variable and discontinuous on shears Shearing cuts calcite network veins and pyritic lenses | | | | | | | | | | | | | |
| | | | 80' | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | 90' | | | | | | | | | | | | | | |
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| | | | 100' | | | | | | | | | | | | | | |
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| | | | 110' | | | | | | | | | | | | | | |
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| | | | 120' | | | | | | | | | | | | | | |
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Page 4 of 22

KENNECOTT EXPLORATION

PROPERTY McCALLIE CREEKCOORDINATE SYSTEM UTM-ZoneNORTHING
EASTING

COLLAR ELEV.

TOTAL DEPTH 1,000'

BEARING

INCLINATION -90°START DATE Aug 23, 1997END DATE Aug 30, 1997SCALE 1"=10'BY S. JonesHOLE MC-1PAGE 3 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | | | |
|-----------------|---------------|---|-------|--|----------------|------|--|---------------|----------------|----|----|----|----|----|-----|--|-------|
| Drill Run | Total Core | % | | | | | | Sample No. | Intv. (ft.) | Cu | Pb | Zn | Ag | Au | Sus | | |
| GOLD Report 293 | | | 120 | | | | | | | | | | | | | | |
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| | | | 130 | 1" qtz-carbonate vein @ 129' @ -60° concordant with shear | | | | | SP39503 | | | | | | | | -0.15 |
| | | | | | | | | | | | | | | | | | -0.17 |
| | | | | | | | | | | | | | | | | | -0.25 |
| | | | 140 | | | | | | | | | | | | | | -0.11 |
| | | | | | | | | | | | | | | | | | -0.14 |
| | | | | | | | | | | | | | | | | | -0.16 |
| | | | 150 | 152-163' Variably sheared black argillite @ abun graphite | | | | | | | | | | | | | -0.21 |
| | | | | | | | | | | | | | | | | | -0.05 |
| | | | 160 | 163-175 Thoroughly sheared black argillite @ +50% graphite. Clay and graphite gouge. | | | | | | | | | | | | | -0.09 |
| | | | | | | | | | | | | | | | | | -0.15 |
| | | | 170 | 173-175 Argillite is bleached to light gray. | | | | | | | | | | | | | -0.13 |
| | | | | -70° sheared contact @ granite | | | | | | | | | | | | | |
| | | | | 175-214' Fine grained Qtz Eye Porphyry | | | | | | | | | | | | | |
| | | | | Granite-Qtz Monzonite composition. | | | | | | | | | | | | | |
| | | | 180' | | | | | | | | | | | | | | |
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KENNECOTT EXPLORATION

PROPERTY McCALLIE CREEKCOORDINATE SYSTEM UTM-ZoneNORTHING
EASTING

COLLAR ELEV. _____

BEARING _____

START DATE Aug 23, 1997SCALE 1"=10'HOLE MC-1TOTAL DEPTH 1,000'INCLINATION -90°END DATE Aug 30, 1997BY S. JonesPAGE 4 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | | |
|-----------------|---------------|---|-------|--|----------------|------|--|---------------|----------------|----|----|----|----|----|-----|--|
| Drill Run | Total Core | % | | | | | | Sample No. | Instr. (FL) | Cu | Pb | Zn | Ag | Au | Sus | |
| Data Report 205 | | | 180' | Light green-gray @ fine gr. ^{chloritized} biotite & feldspar in siliceous groundmass. Qtz eyes are rounded and medium grained and locally partially resorbed. Biotite altered to chlorite and pyroxene(?) | | | -80° shear | | | | | | | | | |
| | | | 190' | | | | 188-189' Gouge Zone | | | | | | | | | |
| | | | | | | | 191-198' Moderately sheared @ 70-80° | | | | | | | | | |
| | | | 200' | | | | | | | | | | | | | |
| | | | | | | | -70° shear | | | | | | | | | |
| | | | 210' | | | | | | | | | | | | | |
| | | | | 214-323' Black siliceous Argillite. Moderately sheared with graphite partings. Pyrite (~1%) as clots, bedding parallel stringers and locally weakly disseminated. Weak local, discontinuous calcite ± qtz stringers - hairline to 1/4" | | | -60° shear - slicks @ 40° to axis E-50° | | | | | | | | | |
| | | | 220' | | | | | | | | | | | | | |
| | | | 230' | | | | | | | | | | | | | |
| | | | 240' | | | | | | | | | | | | | |

Page 6 of 22

0.14 0.03 -0.14 -0.13 -0.23 -0.19 -0.23

KENNECOTT EXPLORATION

PROPERTY McCALLIE CREEKCOORDINATE SYSTEM UTM-ZoneNORTHING
EASTING

COLLAR ELEV.

TOTAL DEPTH 1,000'

BEARING

INCLINATION -90°START DATE Aug 23, 1997 SCALE 1"=10'END DATE Aug 30, 1997 BY S. JonesHOLE MC-1PAGE 5 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | |
|--------------------|---------------|---|-------|--|----------------|------|--|---------------|----------------|----|----|----|----|----|-------|
| Drill Run | Total Core | % | | | | | | Sample No. | Intv. (ft.) | Cu | Pb | Zn | Ag | Au | Su |
| GACD Report 293 | | | 240 | | | | | | | | | | | | -0.07 |
| | | | | | | | | | | | | | | | -0.20 |
| | | | | | | | | | | | | | | | -0.13 |
| | | | 250 | | | | | | | | | | | | -0.22 |
| | | | | | | | | | | | | | | | -0.15 |
| | | | | | | | | | | | | | | | -0.14 |
| | | | 260 | | | | | | | | | | | | -0.19 |
| | | | | | | | | | | | | | | | -0.19 |
| | | | | | | | | | | | | | | | -0.19 |
| | | | 270 | | | | | | | | | | | | -0.19 |
| Page 7 of 22 | | | | | | | | | | | | | | | -0.19 |
| | | | | | | | | | | | | | | | -0.19 |
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| | | | 280 | | | | | | | | | | | | -0.19 |
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| | | | 290 | | | | | | | | | | | | -0.19 |
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| | | | 300 | | | | | | | | | | | | -0.19 |

@296,300'±301':

1" fibrous calcite veins @ pyrite
stringer core.

SP39505

SP39506

PROPERTY M^cCALLIE CREEK COORDINATE SYSTEM UTM-Zone

NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1 = 10 HOLE MC-1
EASTING _____ TOTAL DEPTH 1,000' INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 6 OF 17

[illegible]

NORTHING
EASTING

BEARING

COORDINATE SYSTEM UTM - Zone 6

COLLAR ELEV.

BEARING

START DATE Aug 23, 1997

SCALE 1" = 10'

HOLE MC-1

TOTAL DEPTH 1,000.

INCLINATION -90°

END DATE Aug 30, 1997

BY S. Jones

PAGE 7 OF 17

[illegible]

COORDINATE SYSTEM UTM-Zone 6

NOTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1" = 10' HOLE MC-1
 EASTING _____ TOTAL DEPTH 1,000.1 INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 8 OF 17

[illegible]

KENNECOTT EXPLORATION

PROPERTY McCALLIE CREEK, AK COORDINATE SYSTEM UTM - Zone 6

NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1" = 10' HOLE MC-1
 EASTING _____ TOTAL DEPTH 1,000' INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 10 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | |
|---------------------|---------------|---|-------|--|------------------|------|--|---------------|----------------|----|----|----|----|----|-----|
| Drill Run | Total Core | % | | | | | | Sample No. | Intv. (Ft.) | Cu | Pb | Zn | Ag | Au | Sus |
| Drill Report 293 | | | 540 | | | | | | | | | | | | |
| | | | | 547': 1" gtz vein @ weak pyrite-arsenopyrite | | | | | | | | | | | |
| | | | 550 | 551-574': Conglomerate "Red Bed" Local gtz veins. Pyrite 1.0% as disseminations. Lt gray. | 1/8 3/4 0% | | | | | | | | | | |
| | | | 560 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 570 | | | | | | | | | | | | |
| | | | | 574-593: Lt gray-green Tuffaceous Volcanics. Trace pyrite. Calcareous fragments @ bleached rims & calcite veinlets | | | | | | | | | | | |
| | | | 580 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 590 | | | | | | | | | | | | |
| | | | | 593-625': Contorted Argillite with tuffaceous volcanic interbeds. Calcite veinlets; Rounded calcareous fragments in volcanics. Trace pyrite in argillite. Local shearing. | | | | | | | | | | | |
| | | | 600 | | | | | | | | | | | | |

PROPERTY MCCALLIE CREEK, AK COORDINATE SYSTEM UTM-Zone 6

NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1" = 10' HOLE MC-1
EASTING _____ TOTAL DEPTH 1,000.' INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 11 OF 17

[illegible]

PROPERTY MCCALLIE CREEK, AK COORDINATE SYSTEM UTM-Zone 6

NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1" = 10' HOLE MC-1
EASTING _____ TOTAL DEPTH 1,000.' INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 12 OF 17

[illegible]

Page 14 of 27

KENNECOTT EXPLORATION

PROPERTY McCALLIE CREEK, AK COORDINATE SYSTEM UTM-Zone 6NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE AUG 23, 1997 SCALE 1"=10' HOLE MC-1
EASTING _____ TOTAL DEPTH 1,000.' INCLINATION -90° END DATE AUG 30, 1997 BY S. Jones PAGE 13 OF 17

| RECOVERY | | | Depth | DESCRIPTION LITHOLOGY, STRUCTURE, MISC. | Graphic Log | Min. | DESCRIPTION MINERALIZATION, ALTERATION, VEINS | ASSAYS | | | | | | | |
|-----------------|---------------|---|-------|--|----------------|------|--|---------------|----------------|----|----|----|----|----|------|
| Drill Run | Total Core | % | | | | | | Sample No. | Intv. (Ft.) | Cu | Pb | Zn | Ag | Au | Sus. |
| Data Report 293 | | | 720 | | | | | | | | | | | | |
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PROPERTY MCCALLIE CREEK, AK COORDINATE SYSTEM UTM-Zone 6

NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1" = 10' HOLE MC-1
EASTING _____ TOTAL DEPTH 1,000.1 INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 14 OF 17

[illegible]

PROPERTY MCCALLIE CREEK, AK COORDINATE SYSTEM UTM-Zone 6

NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1"=10' HOLE MC-1
EASTING _____ TOTAL DEPTH 1,000.' INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 15 OF 17

[illegible]

PROPERTY McCALLIE CREEK, AK COORDINATE SYSTEM UTM-Zone 6

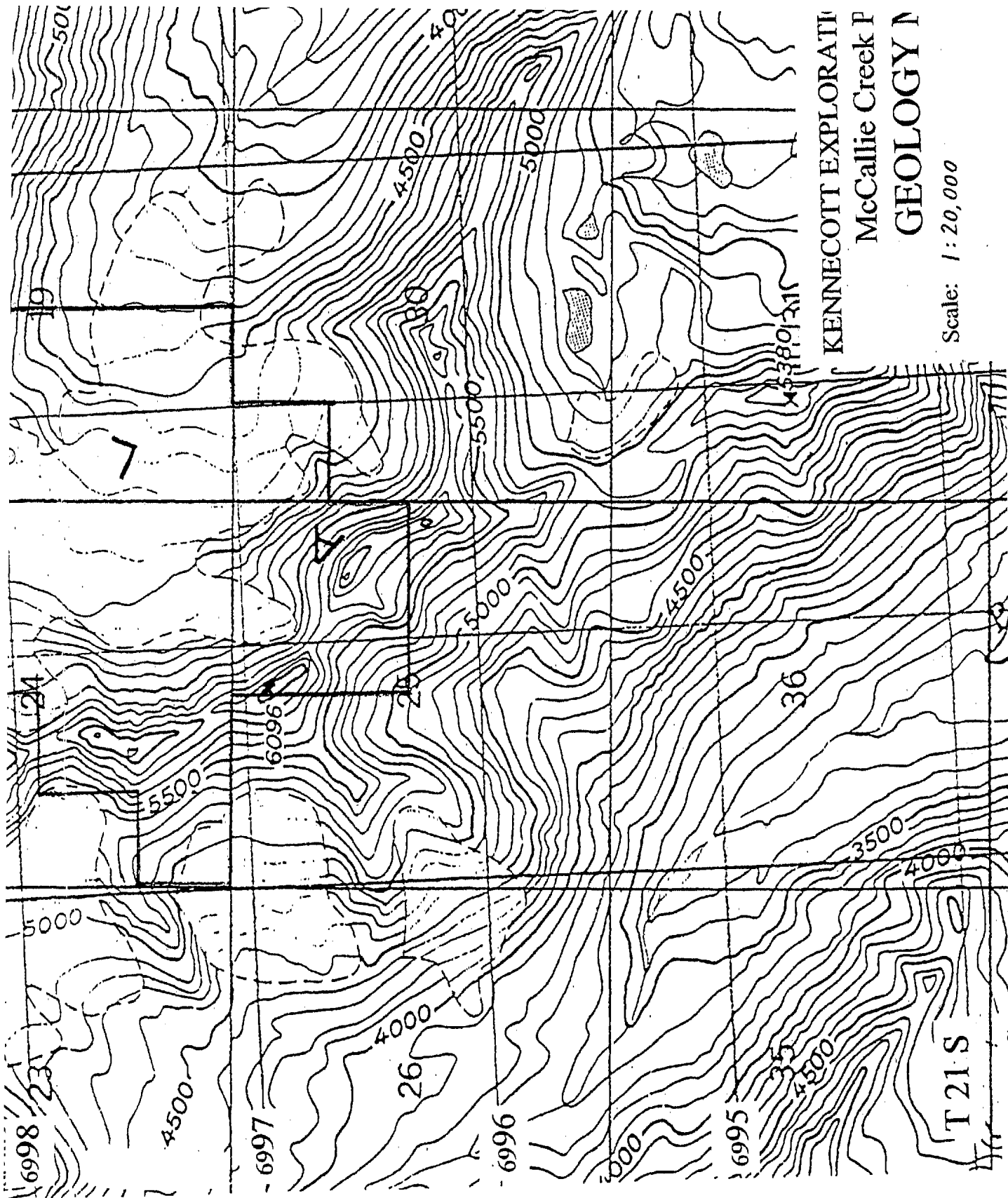
NORTHING _____ COLLAR ELEV. _____ BEARING _____ START DATE Aug 23, 1997 SCALE 1"=10' HOLE MC-1
EASTING _____ TOTAL DEPTH 1000' INCLINATION -90° END DATE Aug 30, 1997 BY S. Jones PAGE 17 OF 17

[illegible]

UTM COORDINATES (elev. in ft)

MC-1 351,856,
6,997,986,
4,859.





KENNECOTT EXPLORATION
McCallie Creek F
GEOLOGY N

Scale: 1:20,000

Healy AC

UTM COORDINATES (elev. in ft)

MC-1 351,856.
6,997,986.
4,859.

