BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1998/99
REPORT #:	PAP 98-37
NAME:	DAVID BENNETT

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations 15 to 17, page 6.**
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Name DAVID BENNETT Reference Number 98/99 P83

LOCATION/COMMODITIES

Project Area (as listed in Part A) DEENA/MOSQUITO MINFILE No. if applicable N/A

Location of Project Area NTS 103 F1 Lat 53°0'N to 53°12'N. Long 132°0'W to 132°16'W

Description of Location and Access Road access from Sandspit to Deena Creek/Mosquito Lake area (good logging road network). Boat access to shoreline areas along Skidegate channel

Main Commodities Searched For Gold.

Known Mineral Occurrences in Project Area None

WORK PERFORMED

1. Conventional Prospecting (area) 70 km^2
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 14 Rocks, 19 Soils, 33 Silts
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Weak Au anomaly in silts Claim Name

Location (show on map) Lat 53° 6 to 7' N Long 132° 05' W Elevation 200 to 500 m.

Best assay/sample type D 26:- 18ppb Au - Silt draining area of Honna conglomerate

Description of mineralization, host rocks, anomalies Silicification with secondary sulfide mineralization in Honna Conglomerate. Potential for possible deposit type similar to "Specogna" on Graham Island.

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DEENA/MOSQUITO PROJECT AREA - ROCK AND OUTCROP DESCRIPTIONS

D 45 SUBCROP: Rusty, silicified pebble conglomerate. 50% pebbles to 10" cm in a sand silt matrix. Pebbles mainly granite - qtz. diorite. Rust and silicification in matrix — approx. 2-3% v fgr. diss. Py.

D 46 FLOAT: Rusty, silicified pebble conglomerate. Same as D 45

D 347 FLOAT: Angular rusty rhyolite with 1 cm blebs of massive Py

D 351 FLOAT: Sub angular, silicified basalt with fracture and diss. Chalcopyrite (1-2%), Pyrite (1-2%)

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Name DAVID BENNETT Reference Number 98/99 P 83

LOCATION/COMMODITIES

Project Area (as listed in Part A) KOOTENAY MINFILE No. if applicable N/A

Location of Project Area NTS 103 C 16 Lat 52° 40' N to 52° 50' N Long 132° 10' W to 132° 25' W

Description of Location and Access Access by boat from Moresby Camp to Sewell logging camp then by logging roads to center of project area.

Main Commodities Searched For GOLD

Known Mineral Occurrences in Project Area Blue Mule - high grade gold vein system in Karmutsen Formation basalt. Strongly anomalous gold in silts and rocks from last years program.

WORK PERFORMED

1. Conventional Prospecting (area) 150 km^2
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 17 ROCKS, 72 SOILS, 41 SILTS
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities GOLD Claim Name LOBSTER 1

Location (show on map) Lat 52° 51' N Long 132° 7' W Elevation 40 to 120m

Best assay/sample type ROCKS D218: 630 ppb Au.; SOILS D171: 410 ppb Au.; D183: 360 ppb Au.

Description of mineralization, host rocks, anomalies Mineralization consists of intense quartz veining and silicification along a regional fault trend (NW-SE). Silicification occurs in both massive grey limestones of the Kunga Fm. and in greenstone facies basalts of the Karmutsen Fm. Strongly anomalous gold in soil geochem occurs in the silicified zone.

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KOOTENAY AREA – ROCK AND OUTCROP DESCRIPTIONS

D 76 FLOAT :- Rusty, silicified, vuggy basalt with 3% f.gr. diss. Py. Rust in vuggy areas.

D 89 SUB CROP :- Leucocratic, weakly silicified, andesite lapilli tuff with 1-2% f.gr. diss. Py.

D 92 SUBCROP :- Weakly silicified, vuggy grey limestone with 2% Py in small fractures.

D 107 FLOAT :- Strongly silicified and rusty rock with >10% f-med gr. diss. and fracture sulfides (mainly Py with traces of AsPy?). Original composition uncertain due to intense alteration.

D 125 FLOAT :- Angular rusty, silicified rhyolite with 1-2% fracture Py.

D 217 FLOAT :- Quartz breccia → 35-40% basalt (altered) fragments in a massive quartz matrix (slightly rusty with <1% Py).

D 218 SUBCROP :- Strongly silicified basalt breccia. Weakly rusted with 3-5% diss. and fracture Py.

D 219 SUBCROP :- Basalt intrusive (dyke ~ 1m wide 110/85N) - Weakly silicified - strong sulfide mineralization >10% sulfides (mainly Py) - fracture, diss. and massive blebs.

D 220 SUBCROP :- Strongly silicified grey limestone with 15+% sulfides in massive blebs, veinlets and diss. throughout (mainly Py)

D 221 SUBCROP :- Fault breccia zone - chloritic, clay altered with basalt and grey limestone fragments. Moderate silicification. >10% Py.

D 222 SUBCROP :- Weakly silicified, rusty, qtz. eye rhyolite intrusive

D 225 FLOAT: Silicified, rusty, thin bedded black argillite

D 252 FLOAT: Quartz breccia with andesite - basalt fragments in qtz. m

D 254 FLOAT: Massive quartz ~~vein~~ with >3% f.gr. diss. Py.

D 257 FLOAT: Silicified, rusty, leucocratic rhyolite with 3-5% f.gr. diss. Py (minor Arsenopyrite)

D 261 FLOAT: Silicified, rusty, leucocratic vuggy rhyolite with 3% f.gr. diss. Py (traces Arsno).

D 336 SUBCROP: Strongly silicified, rusty, vuggy, leucocratic andesite volcanics w. 3+% f.gr. diss Py. 2-3mm wide qtz. vein

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Name DAVID BENNETT Reference Number 98/99-P83

LOCATION/COMMODITIES

Project Area (as listed in Part A) SEWELL MINFILE No. if applicable N/A

Location of Project Area NTS 103 B 13 Lat 52°35'N to 52°50'N Long 131°55'W to 132°05'W

Description of Location and Access Boat access from Moresby Camp or Sewell Logging Camp to shoreline areas. Some log road access out of Sewell from Dogs Creek area in N. to Pacofi Bay area in S. half

Main Commodities Searched For Gold

Known Mineral Occurrences in Project Area None

WORK PERFORMED

1. Conventional Prospecting (area) 80 km²
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 3 ROCKS; 29 SILTS
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Weakly anomalous Au in silts Claim Name

Location (show on map) Lat Long Elevation

Best assay/sample type D 279 and 299 :- 18 ppb Au - Silts from creeks one in North side of area and one in SE part of project area

Description of mineralization, host rocks, anomalies

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SEWELL PROJECT AREA

ROCK AND OUTCROP DESCRIPTIONS

D 284 FLOAT: Rusty, weakly silicified conglomerate with granite pebbles up to 10+ cm. diam. in sandy chlorite altered matrix with 2% fgr. diss Py.

D 285 FLOAT: Rusty, silicified conglomerate similar to D 284 only moderate argillic alteration, minor chlorite alteration.

D 293 FLOAT: Angular, rusty, silicified argillite with 1-3% fgr diss. Py/Po → traces of malachite

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Name DAVID BENNETT Reference Number 98/99 P83

LOCATION/COMMODITIES

Project Area (as listed in Part A) TARTU/SHIELDS/SST MINFILE No. if applicable N/A.

Location of Project Area NTS 103 F7/8 Lat 53°15'N to 53°30'N Long 132°15'W to 132°45'W

Description of Location and Access From Queen Charlotte City by good logging roads to the Rennel Sound/Tasu Inlet area. Boat access to coastal peninsula and Island areas.

Main Commodities Searched For Gold mineralization → focussing on Masset Formation volcanics.

Known Mineral Occurrences in Project Area Cairte mineral occurrence with gold/antimony is near the main areas of prospecting.

WORK PERFORMED

1. Conventional Prospecting (area) 170 km^2
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 23 Rocks, 2 Soils, 81 silts
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Mineralized float with anomalous Au. Claim Name N/A.

Location (show on map) Lat 53°24'N Long 132°25'W Elevation 130m

Best assay/sample type R 85 → 220 ppb. Au.

Description of mineralization, host rocks, anomalies Strongly silicified, leucocratic felsic breccia with 5% disseminated Py.

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TARTU – SHIELDS – SANDSTONE PROJECT AREA

ROCK + OUTCROP DESCRIPTIONS

D6 :- Dark grey-green, poorly sorted greywacke. Weakly hornfelsed with strong rusty, ankeritic alteration. (outcrop).

D9:- FLOAT :- Rock chips of angular rusty, light brown rhyolite with rusty fractures.

D10:- FLOAT: Brown beige rhyolite w. rusty fractures – angular.

R41:- FLOAT: Strongly silicified, vuggy black argillite (vugs rusted)

R49:- SUBCROP: Banded rhyolite w. rusty fractures. 1-3% f.gr. diss Py.

R82-85:- FLOAT: Felsic volcanic – strongly silicified, leucocratic, brecciate in places w. >5% f.gr. diss. Py.

R90:- FLOAT: Felsic leucocratic volcanic breccia w. 3% f.gr. diss. Py

R91:- SUBCROP: Talus of rusty, weakly silicified volcanic breccia w. 5% fracture and diss. Py.

R97:- FLOAT: Rusty, slightly banded rhyolite – vuggy w. qtz lined v

R132:- FLOAT: Rusty, felsic volcanic intrusive. 1-2% f-gr. diss and fracture Py.

R147:- FLOAT: Strongly rusted, leucocratic felsic volcanic w. 3-5% fracture and diss. Py.

R148:- FLOAT: Banded chert w. 5-10% med. gr. fracture and diss Py (possibly minor AsPy + ChalcoPy).

R 150 :- FLOAT : Interbedded argillite/siltstone - rusty with strong sulfide mineralization in places (chalcopyrite, sphalerite, galena as massive blebs, diss. and fractures). Numerous 2-3 mm wide calcite filled fractures.

R 201 :- FLOAT : Intermediate volcanic breccia w. 1-3% diss. sulfides in black matrix.

R 202 :- OUTCROP :- Interbedded argillite/siltstone with 1 cm. wide layers of concentrated sulfide mineralization.

R 215-217 :- OUTCROP :- Pale green felsic volcanic crystal tuff? Silicified with strong sulfide mineralization >5% diss. + fracture Py.

R 231 :- OUTCROP : Strongly silicified, rusty rhyolite with 1 cm. wide quartz veinlets - open and vuggy in middle of veinlets.

R 234 :- FLOAT : Strongly silicified, rusty, rhyolite breccia

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Name DAVID BENNETT Reference Number 98/99 P83

LOCATION/COMMODITIES

Project Area (as listed in Part A) DAWSON MINFILE No. if applicable

Location of Project Area NTS 103 F 2 Lat 53°7'N to 53°12'N Long 132°30'W to 132°38'W

Description of Location and Access

Road access from Sandspit to Jake's Landing on South side of Skidegate channel.
Boat access from Jakes landing to Dawson Inlet and West coast of Graham Is.

Main Commodities Searched For Gold.

Known Mineral Occurrences in Project Area None.

WORK PERFORMED

1. Conventional Prospecting (area) 75 km^2
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 5 Rocks, 6 silts
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS None.

Commodities Claim Name

Location (show on map) Lat Long Elevation

Best assay/sample type

Description of mineralization, host rocks, anomalies

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DAWSON PROJECT AREA

ROCK + OUTCROP DESCRIPTIONS

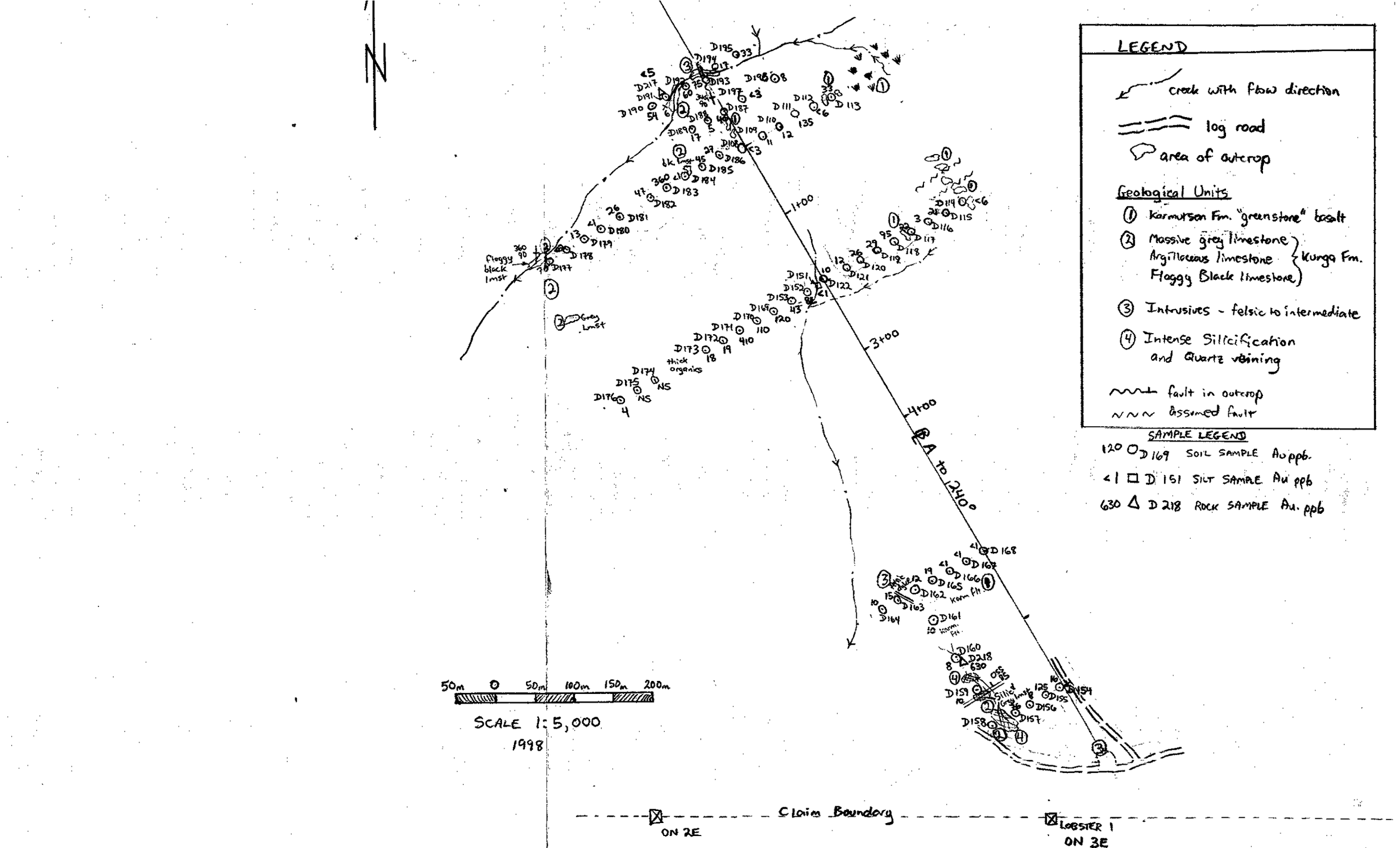
R 253:- FLOAT: Angular, rusty leucocratic volcanic? with 5% f-gr. diss.

R 256:- OUTCROP:- Massive, clay altered, quartz vein with >3% f-gr. diss. sulfides 180/90

R 274:- OUTCROP: Chip sample from across 4m. wide quartz vein system w. 3-5% f.gr. diss. Py.

R 275:- FLOAT: Rusty, bleached basalt w. 5-10% f-med. gr. diss. Py, Pø.

R 280:- FLOAT: Silicified, rusty porous rhyolitic tuff w. 3% f.gr. diss. sulfides.


LEGEND
creek with flow direction
log road
area of outcrop
Geological Units
(1) Karmutsen Fm. "greenstone" basalt
(2) Massive grey limestone
Argillaceous limestone
Flaggy Black limestone
} Kunga Fm.
(3) Intrusives - felsic to intermediate
(4) Intense Silicification and Quartz veining
fault in outcrop
assumed fault
SAMPLE LEGEND
120 D169 SOIL SAMPLE Au ppb.
<1 D151 SILT SAMPLE Au ppb
630 D218 ROCK SAMPLE Au. ppb
1+00
2+00
3+00
4+00
A to 240°
Flaggy black limst
Grey Limst
thick organics
Karm Flt
Silic & Grey Limst
50m 0 50m 100m 150m 200m
SCALE 1:5,000
1998
Claim Boundary
ON 2E
LOBSTER 1
ON 3E