883812

HAZELTON'S BABINE RANGE

1963 - Tomlinson Mnt. - 'Molly' - between Shegisic and Tomlinson Cks.

1964 - Kirkham at Mnt. Tomlinson
- good geology descrip. (p. 49) - cpy, MoS_2 and scheelite - 5 ddh

1965 - Tomlinson ('Molly') - Amax 74 cls. 4 ddh = 3551 ft.
- Blunt Mnt. (Rob) - Noranda (Woolverton) 112 cls. - fsp. po + cpy, MoS_2

1966 - Fog, Frost (Amax) - head of Goathead Ck. on Kisgegas Peak - 1 ddh

1968 - Jan (Mastodon - Highland Bell) - (Wozniak) 1 ddh = 600 ft.
- M.G. (Utah) - 3 mi. south from junction of Harold Price and Suskwa R. - 3 x-ray ddh = 338 ft.
- Bear (Laura) - west flank of Thomlinson between McCutcheon and Sterritt Cks. - access rd. - 17 ddh = 10,000 ft. + trenching
- Tetra - Casusqua Ck. 14 ddh = 2441 Ft. furface and 7 ddh underground (p. 125)

1969 - Tetra - 8 ddh = 1,808 ft.

1970 - Mary (Twin Peak) on Blunt Mnt.
- Orbi (Utah) - 2 ddh = 1058 ft. - straddling gossan Bulkley R.
- Tetra - trenching; Silver Tip (Utah) - Boulder Ck.
- Daisy (Twin Peak) - Netalzul Mnt.
- Bear (Laura) - Midwest Oil 1 ddh = 1,542 ft. - old showing.

1971 - Daisy
- Mary
- Silver Tip (Utah) - 2 ddh = 1,002 ft.
- Loudel (Chappelle) - 4 ddh = 761 ft.
- 7A (Granby) Thomlinson Ck. - trenching

1972 - Daisy
- 7A - geochem.

HAZELTON

1909 - Nine Mile High Mountain - Ag - Pb veins

1910 - Rocher Deboule - Cu - Pb

1913 - 1st shipment of ore (from Silver Std.)

1914 - Rocher Deboule summary.
- Brian Boru, American Boy Transportation and smelting costs of Silver Std. ore ~ $30.00/ton

1915 - Begin shipment of Cu ore from Rocher Deboule

1917 - 1st permanent survey station and office outside Victoria
- G.S.C. mapping by Dr. J. J. O'Neill
- cobald up to 4% replace Fe in arsenopyrite

1918 - Rocher Deboule area (+wolframite -Sn)

1919 - Silver Std. - only producing mine in area

1920 - Rocher Deboule and Silver Std. mines closed
- Four Mile and Nine Mile Mountains.

1922 - Silver Std. mine reopened for 3 months.

1923 - Silver Std. mine closed

1925 - Rocher Deboule mine dismantled

1926 - mention but no operations.

1927 - Revival on nine Mile Mountain - Sunrise, Silver Cup, American Boy

1938 - Silver Std. mine re-opened - Canadian Cadillac - Au mine

1940 - Rocher Deboule shipped
'Hazelton View gp' on Rocher Deboule shipped 7.66 tons

1941 - Douglas Lay (inspector) - died, Hazelton View shipped

1947 - Silver Std. - 15 crown and 24 cls. on Glen Mtn.

1948 - Silver Std. produced - 3,543 tons milled
Au - 195 oz, Ag -46,559 oz.; Pb - 62,805 lb; Zn - 255,472 lb.; Cd - 2,226 lb.
+ ddh.
flotation mill - 50 tons/day.
- "Victoria" - on Rocher Deboule - Co - U in hbld rock. - cobalt - nickel arsenides

1949 - Silver Std. - 7 ddh = 778 ft. - 23,033 tons mined
17,516 tons milled. Au - 1,267 oz.; Ag - 378,888oz.; Pb - 603,953 lb.; Zn - 1,739,817 lb.; Cd - 18,209 lb.
- 'Victoria' - + U

Continued.....2

HAZELTON

1950 - Silver Std. produced - 21,104 tons milled
- Glen and Nine Mile Mnt. - good geology map
- Surprise, American Boy, Silver Cup, Sunrise
- Victoria
- Rocher Deboule - reopen mine

1951 - Silver Std. - 20,858 tons milled 4,593 Pb + Zn conc. - ddh also
- Lead King, American Boy, National Expl.
- Rocher Deboule - reconditioning
- Red Rose - reconditioning

1952 - Silver Std., Rocher Deboule, and Red Rose - shipped

1953 - Silver Std. abundant surface and underground
21,559 tons milled - av. 60 tons/day
- Red Rose - 37,277 tons - av. 140 tons/day
- Rocher Deboule Mnt. - mapping began - ASB

1954 - Silver Std. - cont'd devel. - 21,378 tons milled av. 60 tons/day
- Red Rose - produced - good descrip. and cont;d development

1955 - American Boy, Silver Std. produced
- Silver Std. - 10,048 tons treated - av. 60 tons/day
considerable expl. and underground devel.

1956 - Silver Std. prodeced - 20,352 tons - 13,762 milled - av. 60 tons/day

1957 - Silver Std. produced - 21,758 tons milled plus consid. work

1958 - Silver Std. produced - 5,044 tons milled
- all underground work ceased on May 15th
- dismantling and storage of mine equip,

1959 - Silver Std. produced

1960 - Silver Std. - 37 tons

1962 - Silver Std. - 52 tons crude ore - leased to Paul Kindrat

1965 - Silver Std. produced

1967 - Silver Std. - 32 oz. Au; 16,415 oz. Ag; 36,903 lb. Pb, 30,855 lb. Zn;
- American Boy - option by NW Midland Devel.

1968 - Silver Std. - 201 tons shipped, 560 tons milled,
- Sunrise, American Boy, Bill, Orbi

1969 - Sultana - 2 ddh = 1000 ft. (Ag)
- Silver Std. (NW Midland Devel.) underground devel. 6 ddh = 210 ft.
1,050 tons mined (884 milled) = 100 Pb, 12 Zn conc.
- Sunrise Silver - 10 ddh = 2800 ft.

Continued.....3

HAZELTON

1970 - Loudel - South Hazelton area - 4ddh = 946 ft. 6 percussion = 1,040 ft.
- American Boy (NW Midland Devel.) - trenching

1972 - Brunswick - 6 miles rd constr. Stripping 2 rdh = 25 ft.
- Loudel (Chapparal) - 1 ddh = 927 ft.
- Sunrise - rd. constr., stipping

Chat with Tom Richards on Hazelton West area

Sept. 9/74

Most of area is underlain by Bowser seds. In south area - rocks are continental & consist of sandstones etc. Towards the north we enter a marine environment with large sandstone channels in mudstones etc. Most mnt. tops owe their existence 'young' intrusive plugs. Attitudes of relative flat lying Bowser beds have been disrupted by the intrusive. Local hornfelsing is prominent.

This situation fits ok with the Skeena Arch & shoreline idea.

Figure 1

Preliminary Geological Map of the Southern portion of the Hazelton west half (93M-West½) map sheet

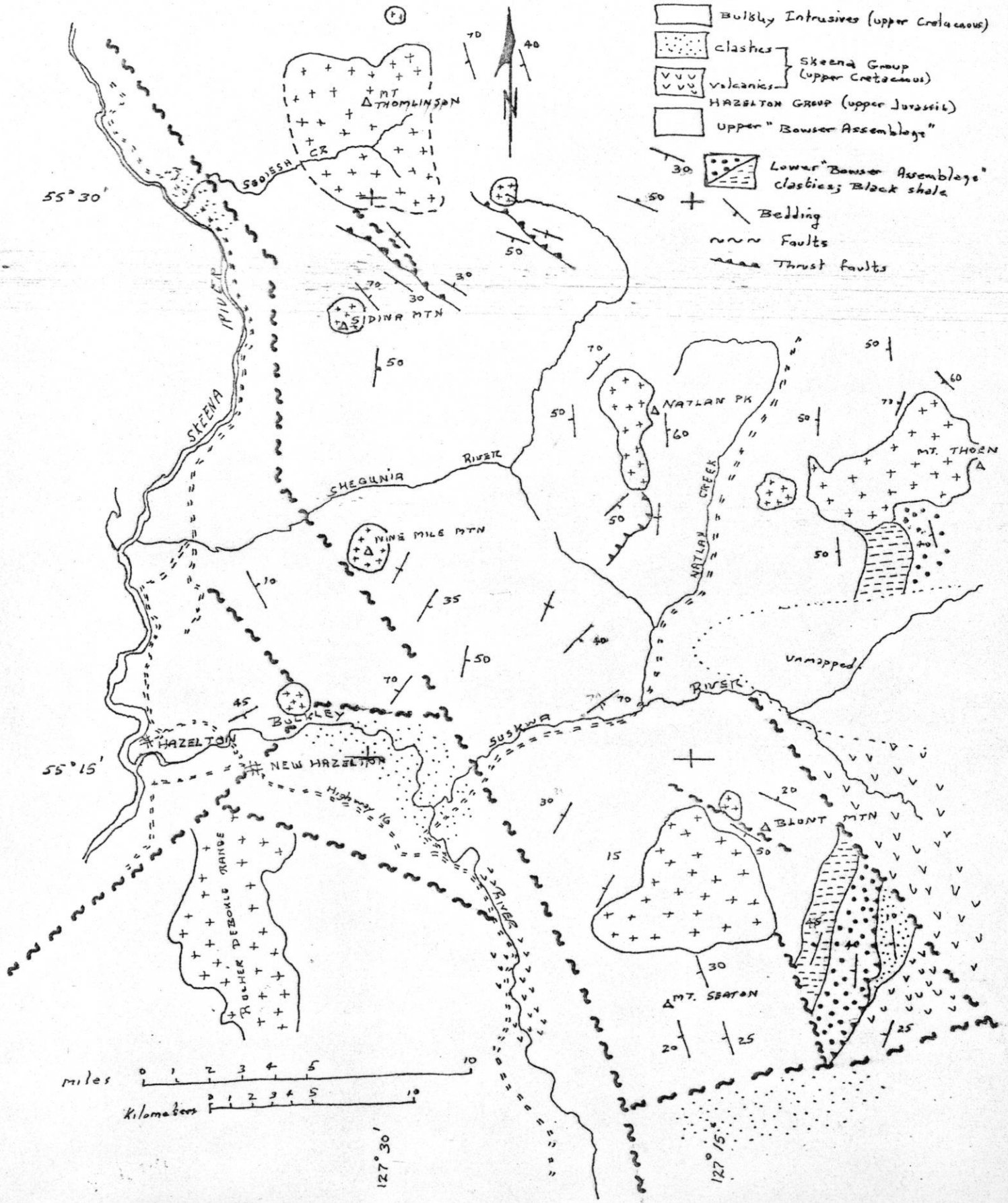
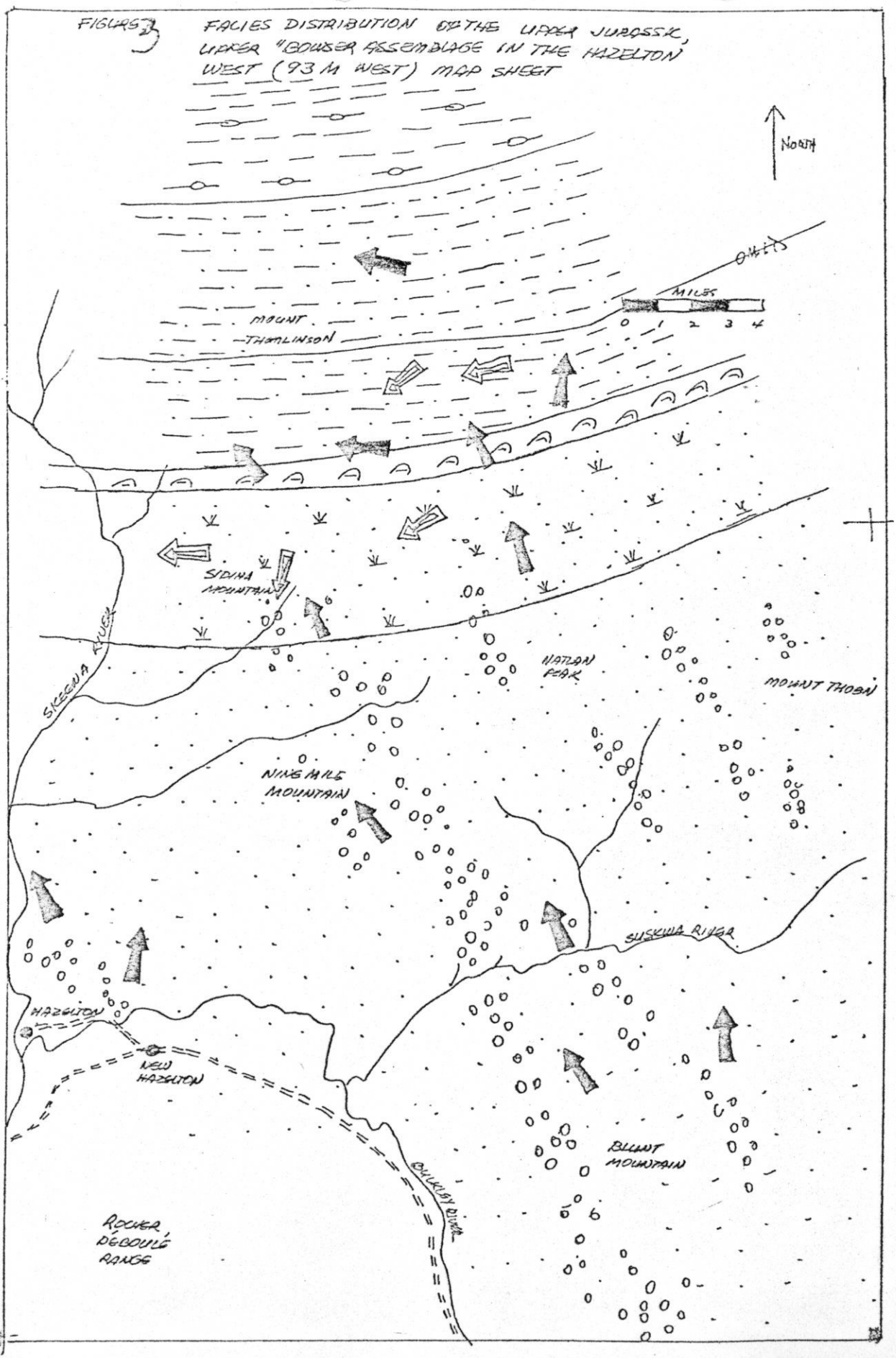


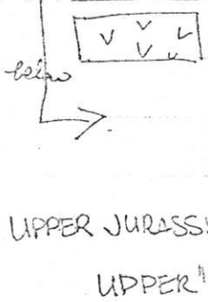
FIGURE 3 FACIES DISTRIBUTION OF THE UPPER JURASSIC, LOWER "BOWSER ASSEMBLAGE IN THE HAZELTON WEST (93 M WEST) MAP SHEET



long & lad

LEGEND FOR FIGS 2 & 3

LOWER & UPPER CRETACEOUS
← SKEENA GROUP

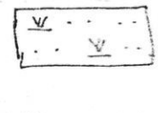


CHERT PEBBLE CONGLOMERATE, SANDSTONE, SILTSTONE & COAL

BRIAN BORU FM : FELDSPAR-AUGITE PORPHYRY FLOWS, AGGLOMERATE TUFF, MINOR DACITE AND RHYOLITE

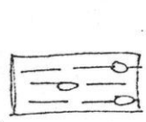
UPPER JURASSIC

UPPER "BOWSER ASSEMBLAGE"



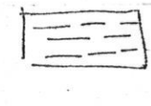
CHANNEL-OVERBANK FACIES : VOLCANIC PEBBLE CONGLOMERATE, SANDSTONE, SILTSTONE MUDSTONE, MINOR MARL & COAL

DELTA FACIES INCLUDING COASTAL SWAMPS, BARRIER BARS AND DISTRIBUTARY CHANNELS : SANDSTONE, SILTSTONE MUDSTONE, MINOR COAL, MARL & CONGLOMERATE



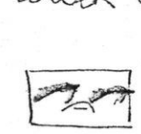
SHORELINE COQUINA FACIES

PELECYPOD COQUINA BEDS, SANDSTONE, SILTSTONE



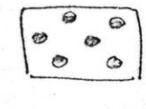
DELTA FRONT FACIES

GREYWACKE TO SUBGREYWACKE, SILTSTONE, ARGILLITE WITH RARE PELECYPODS.



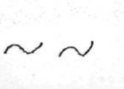
PRODELTA FACIES

SILTSTONE, ARGILLITE, MINOR GREYWACKE



BLACK SHALE FACIES

LOWER "BOWSER ASSEMBLAGE"



COQUINA FACIES : SANDSTONE, SILTSTONE, PELECYPOD COQUINAS MINOR CONGLOMERATE & TUFF

CHANNEL FACIES : CONGLOMERATE SANDSTONE, SILTSTONE AND MUDSTONE

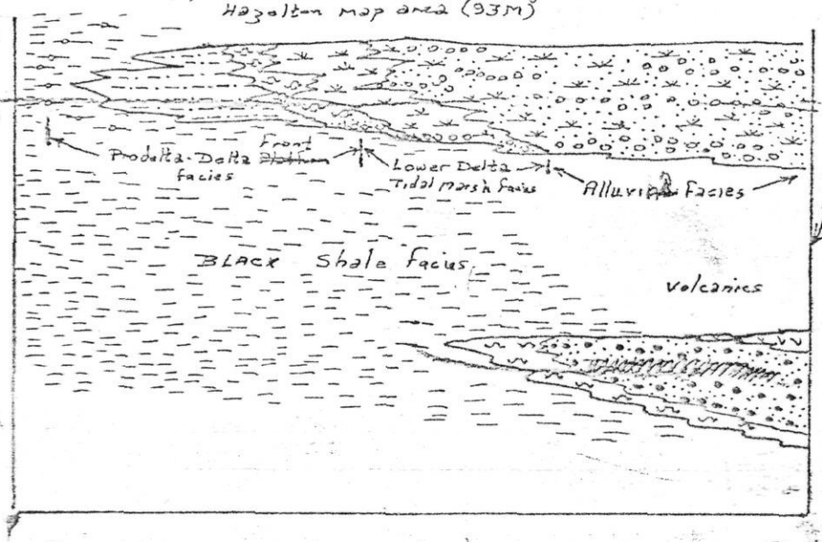
INTRUSIVE ROCKS

UPPER CRETACEOUS BULKLEY INTRUSIONS DIORITE TO QUARTZ MONZONITE

POST DEPOSITIONAL FAULTING

Figure 2

Schematic north-south cross-section of the Upper Jurassic "Bowser Assemblage" in the Hazelton map area (93M)



LEGEND (Figures 1 and 2).

Lower and Upper Cretaceous.
SKEENA GROUP

sandstone, conglomerate, chert pebble conglomerate, siltstone, mudstone and coal.

Brian Boru

volcanics, feldspar-augite porphyry flows, agglomerate, tuff, minor dacite and rhyolite.

Upper Jurassic

"Bowser Assemblage"

channel facies: volcanic-granite conglomerate, sandstone, siltstone

overbank facies: sandstone, siltstone, mudstone, marl, minor coal

Lower Delta facies: sandstone, siltstone, mudstone, minor coal, marl, pelecypod fauna

Shale line Coquina facies: pelecypod coquina beds, sandstone, siltstone, minor conglomerate.

Delta front facies: greywacke, siltstone, gritty argillite

Prodelta facies: argillite, siltstone, greywacke, conglomerate, minor limestone

"Black Shale facies"

coquina facies: sandstone, siltstone, conglomerate, pelecypod coquinas, minor tuff

Alluvial Facies: conglomerate, sandstone, siltstone, mudstone.

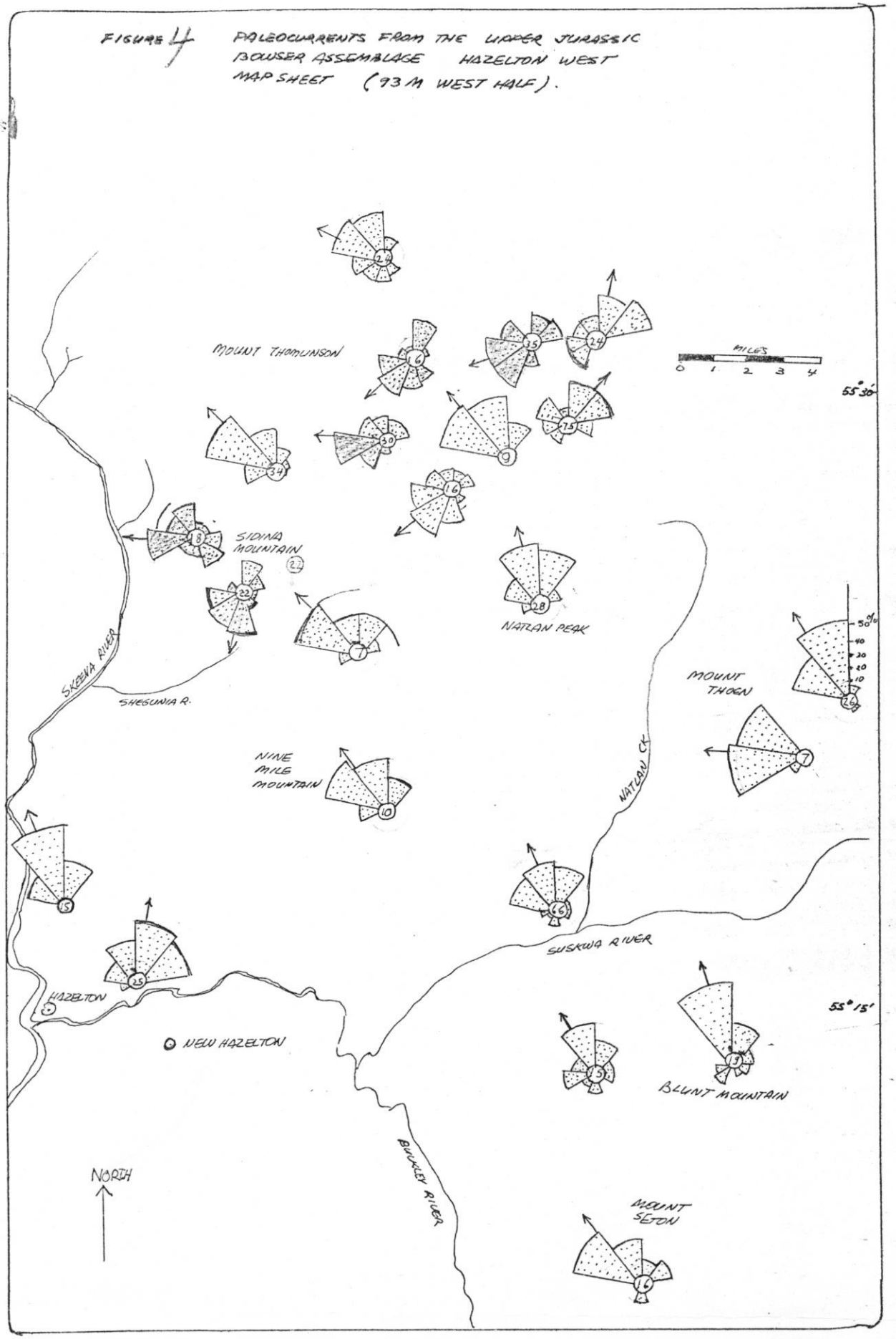
Channel

INTRUSIVE Rocks.

UPPER Cretaceous.
Bulkley Intrusives quartz feldspar porphyry

POST DEFORMATIVE.

FIGURE 4 PALEOCURRENTS FROM THE UPPER JURASSIC BOWSER ASSEMBLAGE HAZELTON WEST MAP SHEET (93M WEST HALF).



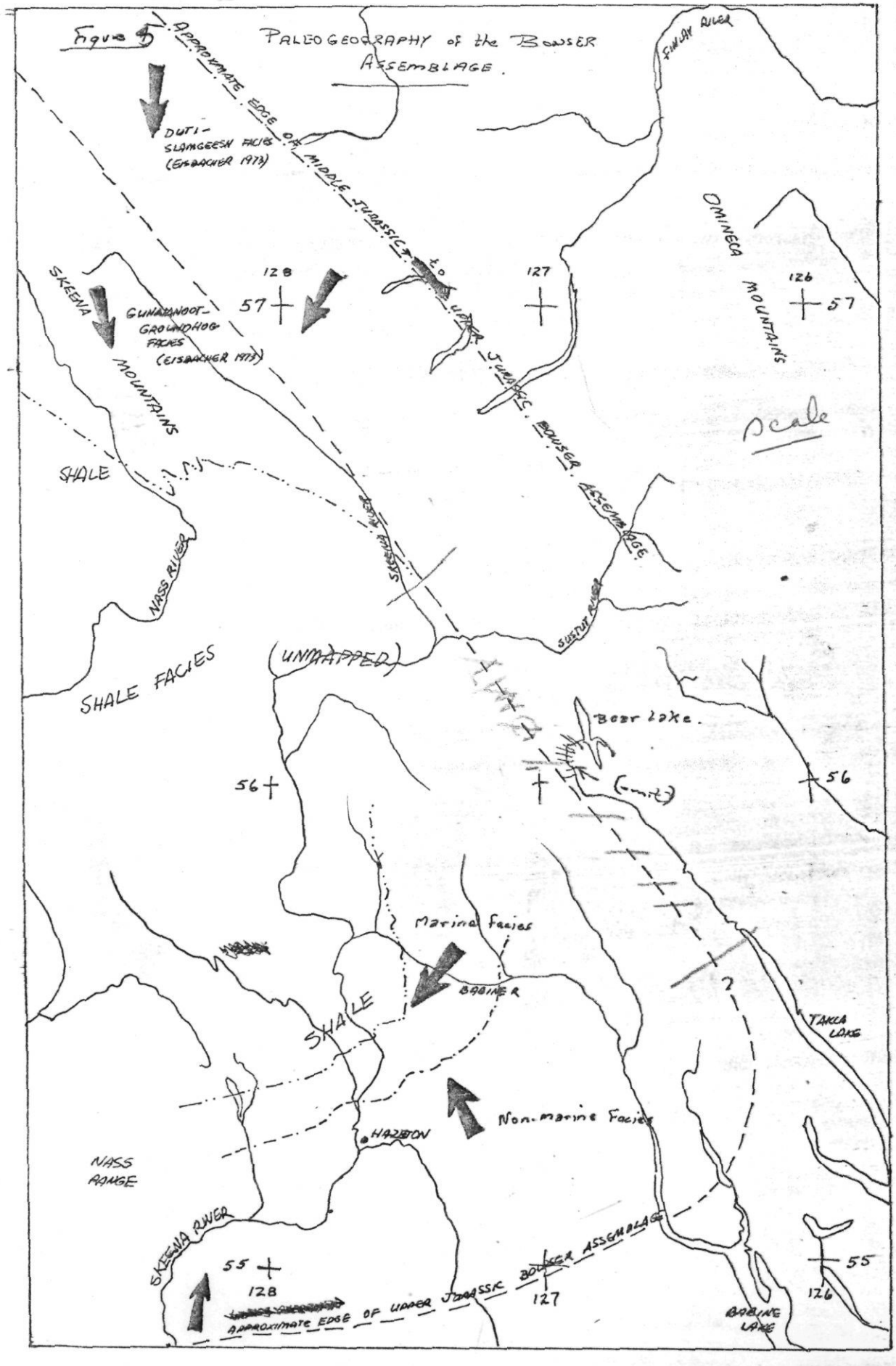


Figure 5. PALEOGEOGRAPHY of the BOWSER ASSEMBLAGE.
APPROXIMATE EDGE OF MIDDLE JURASSIC
DUTI-SLAMGEESH FACIES (EISBACHER 1973)
FINLAY RIVER
OMINECA MOUNTAINS
128
127
126
57
SKEENA MOUNTAINS
GUNANOOT-GROUNDHOG FACIES (EISBACHER 1973)
TO UPPER JURASSIC
BOWSER ASSEMBLAGE
Scale
SHALE
NASS RIVER
SUSTUT RIVER
SHALE FACIES (UNMAPPED)
Bear Lake
56
Marine facies
BABINE
SHALE
TAKLA LAKE
Non-marine Facies
HAZELTON
NASS RANGE
SKEENA RIVER
55
APPROXIMATE EDGE OF UPPER JURASSIC BOWSER ASSEMBLAGE
BABINE LAKE