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TABLE OF MINFILE OCCURRENCES

MINFILE NO	NAME	STATUS	COMMODITIES
0832M008	STILLBELL (S11)	Plant Processor	AG, PB, ZN, CU, AU
0832M009	GOLDEN FLEECE	Showing	CU, AU, AG, PB
0832M038	SOUTH KING	Showing	AG, AU, PB, ZN
0832M048	EMILY TIGER	Plant Processor	PB, AG, CU, AU
0832M049	WINDMILL	Showing	CU, AU, AG, PB
0832M049	APRIL	Showing	CU
0832M052	BEAR	Showing	PB, AG, AU
0832M052	FEDERAL	Showing	CU
0832M059	LADY IS	Showing	CU, AG
0832M061	LADY 32	Showing	CU
0832M064	ROYAL	Showing	CU
0832M065	BRENDA	Showing	CU, AU, AG
0832M078	WAR EAGLE (L 8119)	Showing	CO, M, CU
0832M081	SUNSHINE	Showing	PB, AG, AU
0832M082	POORMAN	Proposed	AU, AG, CU, ZN, PB
0832M083	TIGER	Proposed	AU, AG, CU, ZN, PB
0832M088	CHERRY	Showing	BA
0832M093	BRANDYBITE	Showing	CU
0832M090	PAULMIKE	Showing	CU

SYMBOLS

Geological contact: defined, approximate, assumed

Quaternary limit of cover

Contact between subdivided and undivided units

Uncertainty

Fault: defined, approximate, assumed

Fault, thrust: defined, approximate, assumed

Fault, normal (solid circle indicates downthrown side): defined, approximate, assumed

Bedding: horizontal, inclined, vertical

Bedding (facing direction) known: right way up, overturned, unknown

Foliation: schistosity, fracture cleavage: inclined, vertical

Lineation: undefined

Geochronology sample: Age Method: ATR, K/Ar, Rb/Sr, Sm/Nd, U/Pb, (Database number, Age, Mineral marked as shown)

MINFILE mineral occurrence (see table): prospector, past prospector, developed prospect, showing, anomaly

Drift node and reference number

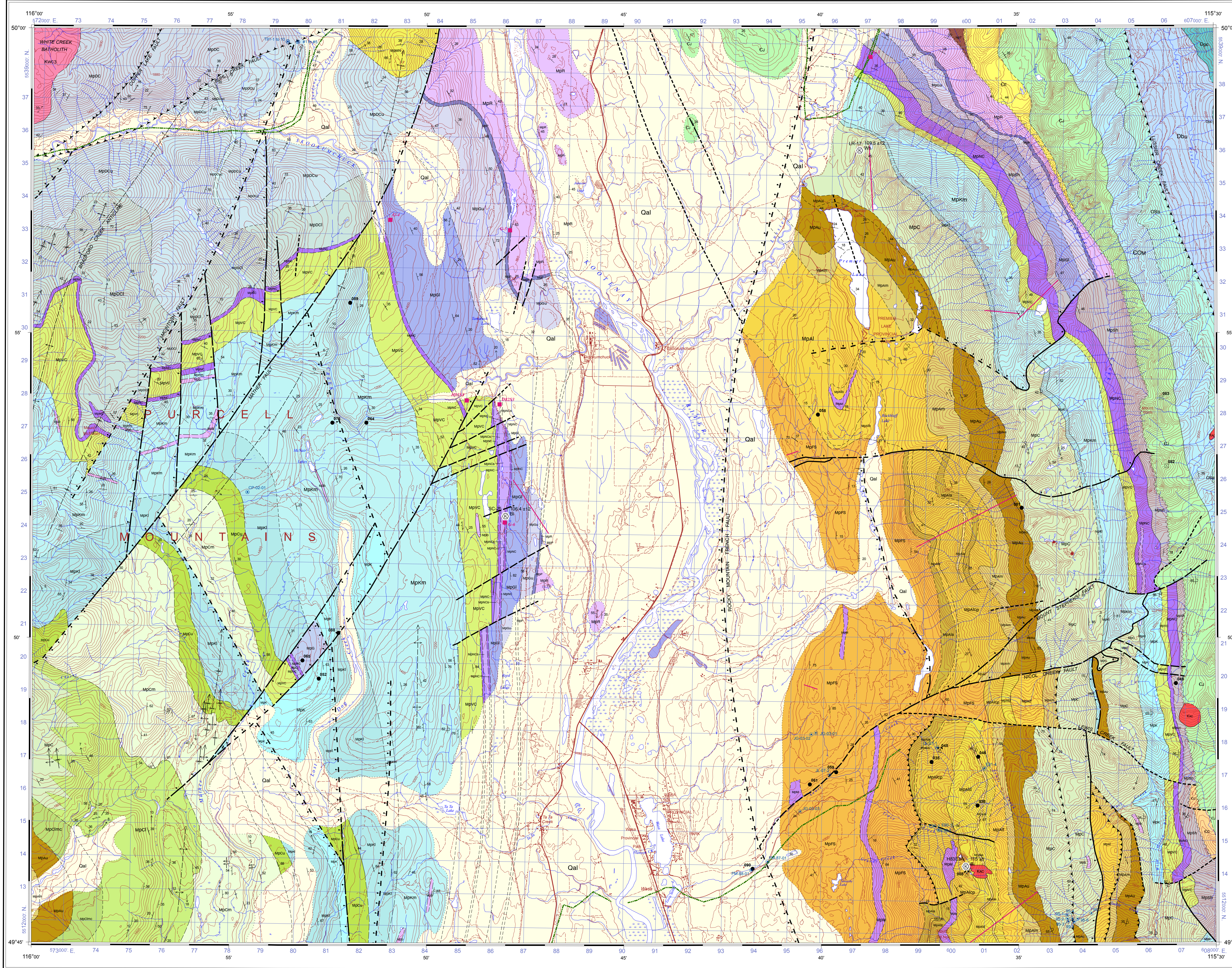
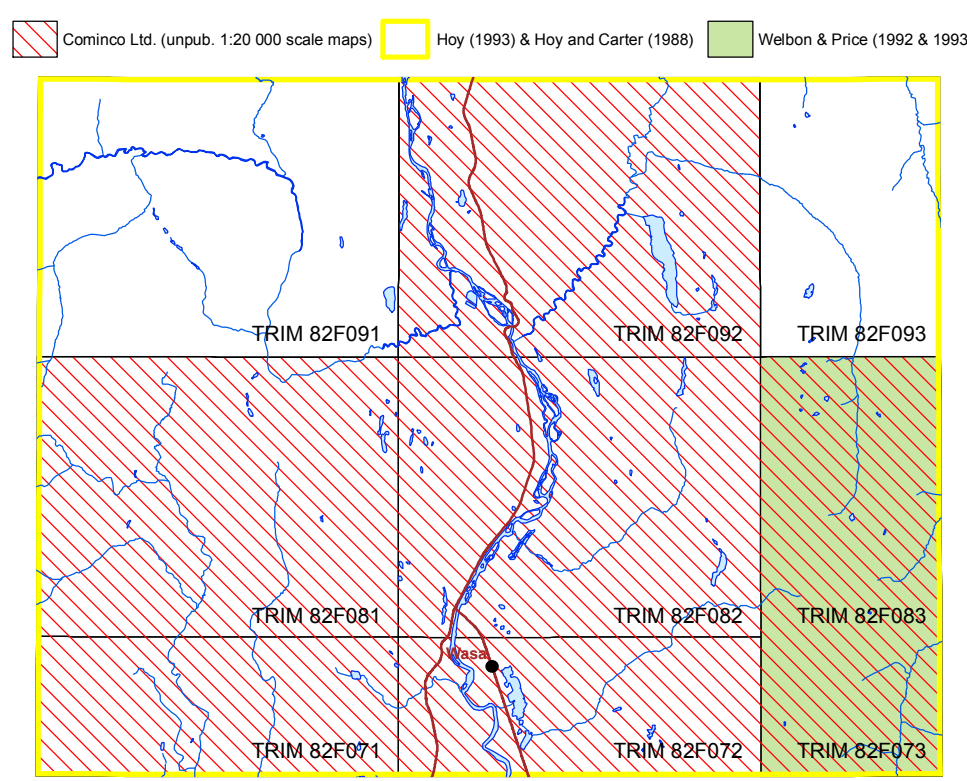
Anticline, syncline (trace of axial surface)

Overturned anticline, syncline (trace of axial surface)

Approximate location of seismic line

Location of measured stratigraphic column with name: point of section, section line

Provincial Park Boundary



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Compilers: D.A. Brown and R.F. MacLeod

GEOLOGY

Geological compilation by D.A. Brown and R.F. MacLeod, 2008-2010

Co-ordinated through the auspices of the Targeted Geoscience Initiative (TGI)

Digital cartography by R.F. MacLeod, Geological Survey of Canada (Pacific Division)

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

OPEN FILE 6301
GEOLOGY
BRITISH COLUMBIA

Digital base map from data compiled by Geomatics Canada, modified by R.F. MacLeod

Magnetic declination 2011, 15°30' E, decreasing 12" annually

Elevations in meters above mean sea level

Contour interval 40 meters

Scale 1:50 000/Echelle 1/50 000

Universal Transverse Mercator Projection
North American Datum 1983
© Her Majesty the Queen in Right of Canada 2011

Projection transverse universelle de Mercator
Système de référence géodésique nord-américain 1983
© Sa Majesté la Reine du chef du Canada 2011

LEGEND

CENOZOIC QUATERNARY

- Qal Unconsolidated outwash, alluvium, colluvium and fill

PALEOZOIC DEVONIAN

- UPPER (?) MIDDLE AND EARLIER (?) DEVONIAN

 - Fairholme Group equivalent: Brown silty shale; grey, black shaly limestone and shale with zirconiferous fossils
 - Dpu "BASAL DEVONIAN UNIT": Dark shaly limestone, nodular, brecciated; laminated gypsum, sandstone, breccia, conglomerate, pebbly grits and orthoquartzite in lower part

- OROVICAN AND SILURIAN

 - UPPER OROVICAN TO MIDDLE SILURIAN
 - DEARFOOT FORMATION

 - OSB Bearfoot Formation: Dolomite with nodular chert, black graphitic shale, sandstone and conglomerate in lower part

CAMBRIAN AND OROVICAN

- UPPER CAMBRIAN AND LOWER OROVICAN
- MICKAY GROUP

 - COM Quartz-mica schist; felspathic and micaceous quartzite; marble; calc-silicate

CAMBRIAN

- MIDDLE AND EARLY CAMBRIAN
- JULIEE FORMATION

 - CJ Dense, cherty limestone, laminated dolomite, intraformational breccia, sandstone and conglomerate

LOWER AND (?) MIDDLE CAMBRIAN

- EAGER FORMATION

 - CE Grey argillite, silty argillite, siltstone, buff weathering; silty limestone; rare biotactic beds
 - CRANBROOK FORMATION

 - CC Calcite marble, dolomite marble, calc-silicate

PROTEROZOIC

- NEO PROTEROZOIC
- WANDERERE SUPERGROUP
- TOBI FORMATION

 - NpT Buff-weathering polymictic conglomerate, conglomeratic quartzite, phyllite impure quartzite, pale green wacke; dominantly dolomite and quartzite clasts, rare andesite fragments occur locally; variable amounts of green from massive to foliated, with flattened clasts; chlorite-sericite schist; grey, brown, grey, and mauve; matrix to framework supported; probable to pseudo-sorted clasts; local dolomite horizons

MESO PROTEROZOIC (HELIKIAN)

- PURCELL SUPERGROUP
- DUTCH CREEK FORMATION

 - MpDC Undivided

 - MpDCu UPPER: interbedded grey siltite and black argillite, thin to thick bedded on carbonate marker
 - MpDCuc Carbonate marker
 - MpDCl LOWER: shaly interbedded black argillite and grey siltite

ROOSVILLE FORMATION

- MpR Green siltstone and argillite, black laminated argillite, stromatolitic dolomite and dark brown oolitic dolomite, quartz arenite toward the top

PHILLIPS FORMATION

- MpP Maroon micaceous siltstone, quartz wacke and argillite

GATEWAY FORMATION

- MpG Undivided

 - MpGu UPPER: green siltstone, argillite and dolomite
 - MpGl LOWER: quartz wacke, dolomitic sandstone, stromatolitic dolomite, oolitic dolomite, green siltstone

NICOL CREEK FORMATION

- MpNC Volcanic rocks: Massive to amygdaloid basalt to andesite lava flows, volcanic sandstone, siltite

 - MpNCs Volcaniclastic siltstone, fine quartz wacke

VAN CREEK FORMATION

- MpVC Pale green, laminated, siltite and argillaceous siltite and quartz wacke. Minor ripple marks, lenticular bedding, rare flattened mudcracks

KITCHENER FORMATION

- MpK Undivided sedimentary rocks: Thin bedded, brown weathering dolomitic siltstone and green argillite

 - MpKm MIDDLE: Dolomitic siltstone, dolomitic argillite and dolomite, commonly buff-weathering; argillite, siltstone, quartzite, green tinged dolomitic siltstone near base
 - MpKl LOWER: Green, beige siltstone, dark grey argillite, dolomitic siltstone

CRESTON FORMATION

- MpC Undivided

 - MpCu UPPER: green siltstone, black or purple argillite and siltstone
 - MpCm MIDDLE: light grey, mauve, purple, thin to medium-bedded quartz arenite, quartz wacke, silty grey siltite and argillite, white quartzite interbeds, lenticular bedding, argillite, cross-bedding and mudcracks
 - MpCl LOWER: waxy green to olive with tan weathering surfaces, thin to thick on top to laminated argillite and argillite, lesser fine grained quartz wacke, wavy bedding and abundant mudcracks
 - MpCimc Mud-cracked member

ALDRIDGE FORMATION

- MpA Sedimentary rocks: quartzofeldspathic wacke, siltstone and argillite

 - MpAu UPPER: rusty brown weathering, grey to dark grey, fissile to platy, laminated silty argillite, siltite, Mpa3: Transition
 - MpAm MIDDLE: grey to rusty weathering, thick to thin-bedded, quartzofeldspathic wacke, intercalated argillite and siltite
 - MpAl LOWER: rusty brown weathering, thin to medium-bedded, quartz wacke, quartz arenite
 - Mpa1 Argillite, siltstone
 - Mpa2 Silty dolomite
 - Mpa3 Siltstone, argillite (dolomitic in part)
 - Mpa4 Siltstone, argillite
 - Mpa5 Quartzite
 - Mpa6 Sedimentary fragmental: stratiform to discordant; matrix-supported to framework-supported; argillite to sandstone; fine quartzite wacke fragments. Fragment sizes vary greatly - from <2mm to >2m

FORT STEELE FORMATION

- MpFS Quartzofeldspathic wacke, siltstone and argillite

MESOZOIC CRETACEOUS

- BAYTONNE PLUTONIC SUITE

 - Km Biotite monzogranite

EARLY CRETACEOUS

- WHITE CREEK BATHOLITH

 - KWCs Biotite monzogranite with megacrysts of potassium feldspar, apite and pegmatite

INTRUSIVE ROCKS

PROTEROZOIC MESO PROTEROZOIC (HELIKIAN) MESOHELIKIAN

- Mpb Mafic sills and rare dikes hosted in Kitchener Formation. Olive green, massive to phylloclastic porphyritic
- MOYNE INTRUSIONS

 - MpM "Moyne Sills": Dark green to black, medium- to fine-grained gabbro and hornblende quartz diorite sills and minor dikes. Zircon U-Pb dates circa 1467 Ma (Anderson and Davis, 1995)

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