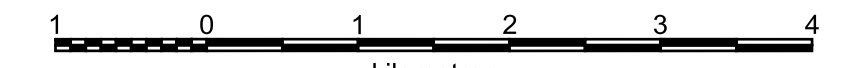


Geology of the Hendrix Lake area NTS 93A/02

Geology by Paul Schiarizza and Jenny Macauley
Digital cartography by Paul Schiarizza

Scale 1:50 000



Legend

Quaternary

- Qal Unconsolidated glacial, fluvial and alluvial deposits
- Qv Basalt and basalt breccia; common xenoliths of spinel ilmenite

Cretaceous?

- Kg Muscovite-biotite granite

Early Cretaceous

- EKg Biotite-hornblende monzogranite and granodiorite; minor tonalite

Jurassic?

- Jgd Hornblende-biotite granodiorite

Early Jurassic

- Ejpd Pyroxenite, hornblende, gabbro, diorite, intrusion breccia

Late Jurassic

- Ejgd Takomkane Batholith, Schoolhouse Lake unit: hornblende-biotite granodiorite; minor monzogranite and tonalite

Late Triassic

- LTqmd Takomkane Batholith, Boss Creek unit: hornblende-pyroxene-biotite quartz monzodiorite, monzodiorite, quartz diorite, granodiorite, tonalite, diorite
- LTd Takomkane Batholith, Buster Lake unit: hornblende-pyroxene-biotite gabbro, diorite, quartz diorite

Middle and Late Triassic

Nicola Group

- uTNsv Volcaniclastic succession: volcanic sandstone, siltstone, conglomerate, breccia; pyroxene-phyric basalt, calcareous sandstone, slate, argillite
- uTNsvb Breccia subunits: volcanic breccia with mainly pyroxene-phyric basalt fragments; pyroxene-rich sandstone; pyroxene-phyric basalt

Lemieux Creek succession: phyllite, slate, siltstone, quartz siltstone

Late Paleozoic?

- uPca Crooked amphibolite: epidote-amphibole-chlorite-feldspar schist

Proterozoic and/or Paleozoic

Snowshoe Group

- PPSs Quartzite, garnet-biotite-muscovite-quartz schist; local marble and calc-silicate schist

- Qal contact, approximate
- Geologic contact, defined
- Geologic contact, approximate
- Geologic contact, inferred
- Thrust fault, inferred
- Fault, inferred

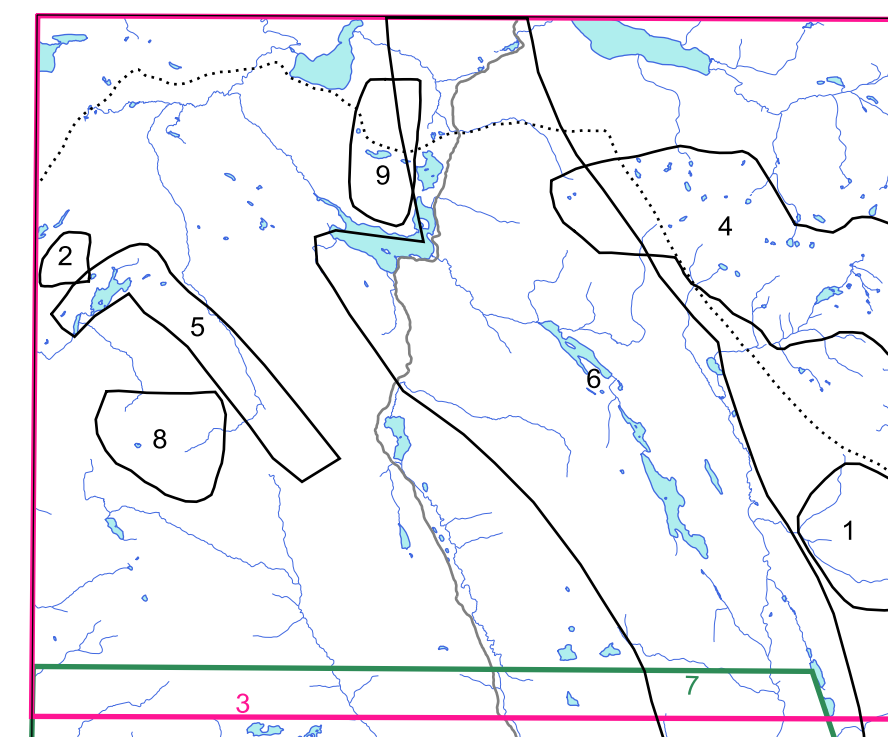
- Bedding, tops known, right way up
- Bedding, tops known, overturned
- Bedding, tops unknown, inclined
- Bedding, tops unknown, vertical
- Transposed compositional layering, inclined
- Transposed compositional layering, vertical
- Schistosity or slaty cleavage, inclined
- Schistosity or slaty cleavage, vertical
- Crenulation cleavage, inclined
- Mineral elongation lineation
- Crenulation lineation
- Axis of mesoscopic fold

Mineral Occurrences (Table 1)

- Past producer
- Prospect or showing
- Assay sample (Table 2)
- Field station
- Limit of mapping
- Lake
- Stream
- Wetland
- Topographic contour, 20 m interval
- Topographic contour, 100 m interval
- Road



Geological interpretation based mainly on mapping by the BC Geological Survey in 2006
Additional sources of information shown below



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- Filipponi, J.A. (1985): Structure and metamorphism at the western margin of the Omineca Belt near Boss Mountain, east-central British Columbia; M.Sc. thesis, The University of British Columbia, 150 pages.
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- Turner, J.A. (1984): Geological and geochemical report on the Bosk 1-5, Cariboo Mining Division, NTS 93A/2W; BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 13 314, 25 pages.

TABLE 2: Analytical Data

Map No.	Field No.	Eastings	Northings	Rock Type	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Cr ppm	Ba ppm	W ppm	Hg ppb	Au ppb	Pt ppb	Pd ppb		
1	05ABO-48	654423	576312	gossan, probable volcanic breccia host	0.34	97.66	2	52	75	87.3	28.8	666	3.94	5.7	0.8	1.9	40.4	0.1	0.83	0.04	116	182.8	80.5	-0.1	9	6	8	4
2	06PSC-151-2	654406	576381	Art showing, rusty, silicified felsite with clots of pyrite	0.86	4.05	15.84	5	245	7.5	12	161	2.62	1914.6	0.4	4	31.4	0.09	7.02	0.06	24	13.2	110.9	-0.1	5	50	-2	-2
3	06PSC-152-2	657116	576781	skarny rock	1.85	102.63	3.63	25	52	5.9	23.3	506	3.28	-0.1	0.2	0.5	81	0.04	0.19	0.98	30	2.7	56.2	-0.1	11	16	8	4
4	06PSC-31	668579	576914	rusty muscovite-biotite-quartz schist	1.44	41.09	12.67	107.4	110	40.1	16.5	601	3.63	-0.1	1.3	7.9	23.8	0.17	0.08	0.28	59	55.1	154.9	-0.1	5	-2	5	2
5	06PSC-42	669184	576626	quartz vein	0.32	9.62	5.54	13	73	2.9	1.6	31	0.65	0.1	-0.1	-0.1	1.2	0.06	0.15	2.4	2	5.6	7.7	-0.1	8	-2	-3	7
6	06PSC-56	665598	5766159	silica-rusty carbonate-sericite-altered rock	0.14	34.46	4.5	75.2	40	62.3	34	1307	7.04	6.4	0.1	0.1	49.7	0.18	3.66	0.06	165	164.4	26.6	-0.1	-5	-2	-3	-2
7	06PSC-71	654038	5765037	quartz vein	0.36	3.02	7.08	13.6	106	7.1	13.3	65	0.48	6	-0.1	-0.1	4.8	0.06	0.24	0.07	-2	6.3	8.1	-0.1	-5	5	4	3
8	06PSC-73-1	654382	5764022	quartz-rusty carbonate-sericite-margarite alteration	0.25	41.13	16.09	89.7	434	349.1	56.3	805	4.96	426.9	0.2	0.2	98	0.34	0.05	0.05	13	158.4	21.2	-0.1	2	3	4	4
9	06PSC-73-2	654382	5764022	quartz vein	0.19	3.97	3.87	9.4	193	13.5	1.6	38	0.27	16.2	-0.1	-0.1	6.6	0.05	0.39	0.02	-2	5.2	5.1	-0.1	-5	-2	4	4
10	06PSC-73-3	654382	5764022	quartz vein	0.15	3.97	3.87	12.5	98	14.2	1.2	91	0.37	13.1	-0.1	-0.1	29.3	0.08	0.28	0.04	2	7.5	6.9	-0.1	-5	-2	3	-2
11	06PSC-74	660036	5767139	rusty pyritic hornfels	0.35	181.07	8.64	58.4	651	46.1	22.4	421	4.12	11.2	0.3	1.2	231.3	0.1	2.76	0.18	173	132	223.9	0.3	-5	13	8	11
12	06PSC-77	667362	5766736	rusty hornfels	4.9	152.48	4.04	10.9	1204	15.2	15.4	136	1.63	5.9	0.2	0.3	66.7	0.14	0.26	0.6	20	4.6	26.7	1.7	13	2121	-3	-2
13	06PSC-84	660205	5767605	pyritic siltstone	0.11	102.36	12.73	115.4	340	32.1	26	918	5.73	6.9	0.3	0.4	24.1	0.08	1.12	0.11	118	140.3	98.5	0.3	27	9	4	9
14	06PSC-99	656163	5767861	rusty fault rock	104.95	127.14	28.48	221.4	1234	45	14	301	4.74	7.7	3.9	1.7	27	2.7	14.94	0.14	378	100.5	29.2	0.6	34	77	9	14
15	06PSC-100-2	656138	5768131	quartz-pyrite-altered sandstone	1.3	106.65	3.74	36.3	316	14.6	13.8	234	3.52	3.9	0.7	1.3	27	0.11	4.18	0.16	90	17.1	215.3	1	-5	-2	5	8
16	06PSC-114	655206	5777611	rusty pyritic rock in fault zone	4.07	79.98	0.15	160.5	306	26.1	15.5	466	6.05	17	0.9	1.2	16.4	3.26	3.05	0.07	136	65.2	63.6	0.5	117	9	7	9
17	06PSC-175	655304	5777595	rusty pyritic siltstone	15.58	97.15	6.36	65.7	188	33.3	16.6	503	3.67	4.3	1	1.7	15.2	0.74	1.65	0.07	121	30.1	59.5	0.3	24	4	-3	-2
18	06PSC-186	648883	5767209	rusty siltstone	2.71	132.19	3.89	95.1	161	17.2	14.9	628	3.38	9.8	0.8	1	51.5	2.54	0.58	0.17	196	37	90.1	0.1	40	4	7	13
19	06PSC-219	653631	5767624	sandstone	0.53	80.85	2.87	29.1	159	11.2	24	364	4.83	3.1	0.1	0.2	60.7	0.06	2.45	0.52	94	11.5	145.6	0.2	5	7	-3	-2
20	06PSC-282	656457	5768103	quartz vein; galena, pyrite	193.24	46.14	6449.6	7	2049	1.8	0.8	20	0.57	0.9	0.1	-0.1	13.3	1.3	3.35	3.41	-2	7.2	17.7	-0.1	-5	10	-3	-2
21	06PSC-283	656512	5768048	quartz vein; galena, pyrite	867.73	29.23	2967.27	7.4	1143	3.7	2.4	56	0.81	0.2	0.2	0.1	85.3	0.15	0.7	2.46	0	6.8	248.3	0.3	10	4	13	-2
22	06PSC-284	656478	5768029	quartz vein; galena, pyrite	50.9	12.87	1749.29	5	1320	2	0.6	27	0.55	0.4	-0.1	0.2	11.6	0.32	0.22	4.38	-2	6.3	10.5	-0.1	6	4	4	4

Rock samples jaw crushed and split at GSB, Victoria. Steel milled and analysed at Acme Analytical, Vancouver
Au, Pt and Pd by fire assay with ICPEs finish; all other elements by aqua regia digestion - ICPMS
Negative numbers indicate values below detection limit

TABLE 1: Mineral Occurrences

Name	MINFILE No.	Eastings	Northings	Commodities	Description
Art	093A 200	664006	5763833	Cu, Au	pyrite, arsenopyrite in fault zone cutting felsite
Bassett	093A 210	656457	5786103	Ag, Pb	quartz veins; pyrite, galena
Cruiser	093A 210	654382	5784622	Ag, Pb	quartz veins; pyrite (galena)
Boss Mountain	093A 001	643250	5773840	Mo	pyrite, molybdenite in quartz veins and breccia bodies
DL	093A 089	666510	5764971	Au, Ag, Pb	quartz veins; pyrite, galena, tetrahedrite, chalcopryite
Fox: Discovery Zone	093A 211	670539	5769152	Mo	skarn along south margin of Deception Stock; molybdenite
Fox: Nightcrawler Zone	093A 211	671472	5769430	W, Mo	skarn along south margin of Deception Stock; scheelite (molybdenite, chalcopryite, sphalerite)
Gus	093A 020	643396	5778309	Cu	pyrite, chalcopryite disseminated in diorite
Hendrix	093A 212	656150	5767140	Au	sheared hornfels with quartz and calcite veins; pyrite, pyrrhotite, arsenopyrite
Dyke	093A 212	657362	5766736	Au	pyritic hornfels on north margin of Hendrix Stock
Horse Trail	093A 213	641985	5773980	Au, Ag, Cu	northwest-striking quartz veins; pyrite, chalcopryite
Dogtooth Zone	093A 213	641943	5774671	Au, Ag	quartz veins in northeast-striking shear zone; pyrite, chalcopryite
Silver Boss	093A 019	641404	5775430	Cu, Au, Ag	quartz veins in a northeast-striking fault zone; pyrite, chalcopryite (arsenopyrite, pyrrhotite, galena, sphalerite)

1:50 000 topographic base produced from TRIM database provided by LandData BC
Universal Transverse Mercator Projection, Zone 10, North American Datum 1983

Recommended citation:
Schiarizza, P. and Macauley, J. (2007): Geology of the Hendrix Lake area, NTS 93A/02; BC Ministry of Energy, Mines and Petroleum Resources, Open File 2007-3, 1:50 000 scale