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The complex geology of the Kananaskis west half map area (NTS 82-J) of the southern Canadian Rocky Mountains was recently updated as part of the Targeted Geoscience Initiative-III program of the Geological Survey of Canada. Six new 1:50 000 scale GIS enabled maps (*Fig. 1;* McMechan and Leech, 2011 a,b,c; McMechan, 2011, 2012, 2013) covering most of the Kananaskis west half map area document major changes in stratigraphy and structural style and the distribution of mineral showings and intrusions. Significant hydrothermal alteration, localized at Cambrian and Devonian facies changes, has produced the Brussilof magnesite mine and several Zn showings.

Digital download packages for the maps listed above included station and structural information but no lithological descriptions. Lithologic descriptions in field notebooks from the 1960s by G.B. Leech, R.B. Best, R.G. Greggs, L.C. Roberts, P.J. Street, B.S. Norford and J.D. Aitken have been translated and transcribed into the same Ganfeld database format used during the TGI-III fieldwork (2006-2010).

This open file contains descriptions for 3756 stations in the area covered by the new geological maps. Only stations by GSC geologists have lithologic information associated with them. However, for all stations visited in 2010 and 2011 and many stations in NTS 82-J/14 the lithology descriptions are included in the remarks section of the station rather than in the lithologic descriptions table.

The Stations shape file contains the standard attribute description for all stations. The Lithology shape file adds lithologic information for 2037 stations to the standard station attributes. Stations with multiple lithologies have multiple station entries. These files can be opened in ArcGIS version 9.3.1 or any GIS software compatible with the ESRI shape file format. The dbf files that accompany the shape files can be opened in Microsoft Excel or any program compatible with the dbf format. The accompanying *Appendix A*, contains descriptions for the attributes contained in the shape and dbf files. Although the lithologic descriptions table does not follow the current GSC data model it does provide useful information of interest to mineral exploration and researchers.

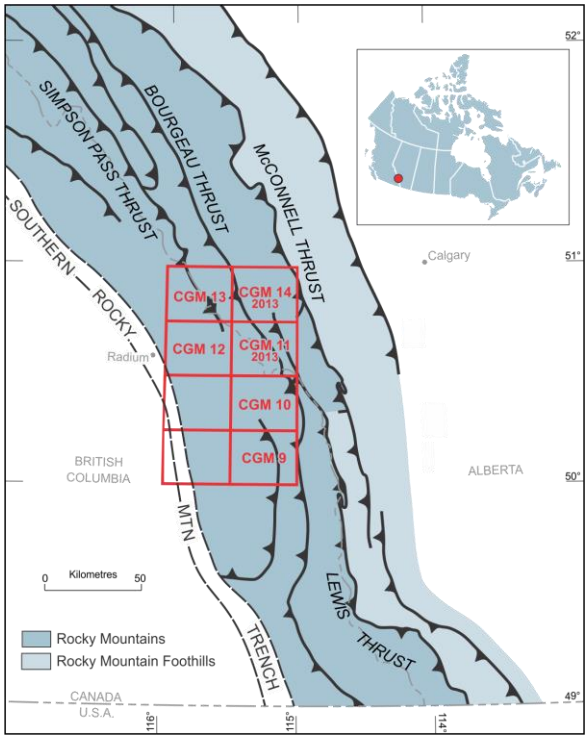

Figure 1. Location of the Kananaskis west half map area and new GIS-enabled bedrock geology maps relative to the major thrust faults in the southern Canadian Rocky Mountains Fold and Thrust belt.

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Appendix A

FID	Feature ID - ArcGIS proprietary counter
SHAPE*	ArcGIS proprietary data type
OBJECTID_1	ArcGIS proprietary numeric counter
MAP_THEME	Geological map theme or type
FEATURE	Feature type - station
SUBFEATURE	The type of station. (Examples: visited outcrop, remote ground observation)
STATION_ID	The unique identification of each outcrop or point where observations were made.
PHYS_ENV	The physical environment/nature of the outcrop
OC_QUALITY	The exposure quality. (Examples: good outcrop, poor outcrop, debris)
OC_SIZE	The size of the outcrop (as estimated by the geologist)
MAP_UNIT	The predominant map unit at the station
PARENTS	The upper level hierarchy names for predominant map unit, if applicable (formation, group or suite name)
LITH_LIST	The unique identification of each lithology observed at a station
OBSERVER	The observing geologist or observing assistant
OBS_DATE	The date on which the observation was made
TRAVERSE_ID	The unique identifier for the traverse during which this station was observed. Format as follows: officer code, year, sequential #
REMARKS	Notes relating to this station
SINCE_LAST	Notes on observations made between this station and the previous station
EASTING	The UTM easting coordinate value of the station (as confirmed by the observer or publication author)
NORTHING	The UTM northing coordinate value of the station (as confirmed by the observer or publication author)
UTM_LON_ZN	The UTM longitudinal zone number
UTM_LAT_ZN	The UTM latitudinal zone letter
UTM_DATUM	The horizontal datum for UTM coordinates (as captured from field work or source)
LOC_METHOD	The method used to capture coordinates for this station. (Examples: GPS, georeferenced image)
PDOP	The positional dilution of precision (positional error) captured from GPS
SATS_USED	The number of satellites used for position calculation, captured from GPS
LATITUDE	The latitude of the station in decimal degrees
LONGITUDE	The longitude of the station in decimal degrees
GEO_DATUM	The horizontal datum for geographic coordinates. (Examples: NAD27, NAD83, WGS84)

ELEVATION	The elevation of the station in metres
ELEV_METH	The method used to capture elevation for this station. (Examples: GPS, altimeter, 50k topo map, 50k DEM)
REFERENCE	An abbreviated reference for the current publication
SOURCE_REF	An abbreviated publication reference for source information or data, or the name of the original data source
MAP_ID	NTS identifier or map name (if footprint does not correspond to an NTS footprint)
RELEASE	At what level of release should this information be made available
AUTHORITY	The name of the scientific authority with release date, or explaination of withheld information
EARTHMATNO	Sequential number for lithologies at this station (1, 2, 3, etc.)
EARTHMATID	Unique lithology ID (2 digit year, 2 or 3 letter officer code, three digit station #, lithology letter)
RXTYPE1	The general rock grouping. Examples: metamorphic, sedimentary, metaplutonic, volcanic; used for Ganfeld (digital data collection) functionality
RXTYPE2	The subdivision of the general rock grouping. Examples: carbonate, fine clastic, sandstone, dykes/sills; used for Ganfeld (digital data collection) functionality
RXTYPE3	The detailed rock name. Examples: argillite, conglomerate, limestone, diabase
GENETIC	An interpretation of the genetic origin or protolith of the lithology
MODSTRUC	List of primary structure modifiers
MODTEXTURE	List of textural modifiers
COLOURF	The fresh colour of the lithology
COLOURW	The weathered colour of the lithology
COLOURIND	The colour index value from 0 to 100
MAGSUSCEPT	Magnetic susceptibility value
CONTACT	Notes on the contacts
CONTACTH	Nature of upper contact
CONTACTL	Nature of lower contact
DESCRIPT	Other descriptions or remarks
INTERP	Environmental interpretation
INTERP_CON	The level of confidence with the lithology interpretation
EARTHMATLT	Sequential letter for lithologies at this station (A, B, C, etc.)
MAPUNIT	The map unit to which the lithology belongs
OCCURAS	Nature of occurrence of this lithology (main, minor, dyke, pluton, etc.)
FOSSIL_DES	Notes on the fossils present
FOSSIL	A list of fossils present in the lithology