

COAL ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: Fording River Operations Assessment Report 2015 Turnbull Exploration Project

TOTAL COST: \$ 1,574,550.00

AUTHOR: Barry F. Musil SIGNATURE: Originals Signed and Sealed by Author

NOTICE OF WORK PERMIT NUMBER/DATE: CX-5-012 / May 15 2014 - May 14 2019

YEAR OF WORK: 2015 PROPERTY NAME: Turnbull Mountain Exploration (FRO) COAL LICENSE(S) AND/OR LEASES ON WHICH PHYSICAL WORK WAS DONE: COAL LEASES: 389275, 389290, 389311

MINERAL INVENTORY MINFILE NUMBER: File: 14675-20/1630586

 MINING DIVISION: Fort Steele

 NTS / BCGS:
 082J0262

 LATITUDE:
 50° 13' 01"

 LONGITUDE:
 -114° 50' 28" (at centre of work)

 UTM Zone:
 11
 EASTING:
 654000

NORTHING: 5565000

OWNER: Teck Coal Limited

MAILING ADDRESS: PO BOX 100, Elkford, BC, V0B 1H0

OPERATOR: Teck Coal Limited

MAILING ADDRESS: PO BOX 100, Elkford, BC, V0B 1H0

REPORT KEYWORDS:

Interbedded sequence of sandstones, siltstones, silty shales, mudstones, and medium to high volatile bituminous coal from the Jurassic–Cretaceous Mist Mountain Formation. The region is structurally complex, containing extensive thrust faulting and folding.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

Annual Assessment Reports Since 1970

SUMMAR	Y OF TYPES OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH TENURES
GEOLOG	ICAL (scale, area)		
	Ground, mapping		
	Photo interpretation		
GEOPHY	SICAL (line-kilometres)		
	Ground (Specify types)		
	Airborne (Specify types)		
	Borehole		
	Gamma, Neutron	7,004.2 m	Coal Lease: 389275, 389290, 389311
	Density	6,762.6 m	Coal Lease: 389275, 389290, 389311
	Caliper	6,762.6 m	Coal Lease: 389275, 389290, 389311
	Deviation	6,979.4 m	Coal Lease: 389275, 389290, 389311
	Dip		
	Others (specify):		
	Core		
	Non-core		
SAMPLIN	G AND ANALYSES		
Total # of Samples			
135	Proximate		Coal Lease: 389275, 389290, 389311
	Ultimate		
135	Petrographic		Coal Lease: 389275, 389290, 389311
	Vitrinite reflectance		
	Coking		
135	Wash tests		Coal Lease: 389275, 389290, 389311
PROSPE	CTING (scale/area)		
PREPARATORY/PHYSICAL			
Line/grid (
	umber, metres)		
	sample(s)		

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Table 5, Appendix 3, and Appendix 4 remain confidential under the terms of the Coal Act Regulation, and have been removed from the public version.

http://www.bclaws.ca/civix/document/id/complete/statreg/25 <u>1 2004</u>

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1. INTRODUCTION

This report presents results of coal exploration activities conducted during the summer of 2015 on the Turnbull Mountain Exploration project, located in the Elk Valley Coalfield, Teck Coal Limited, Fording River Operation, in southeastern British Columbia. The exploration work was completed by Fording River site personnel.

i. Property Description and Access

The Turnbull Mountain Exploration project is located in the Fording River property and Upper Fording River Valley, approximately 26 kilometers north, and east of Elkford, BC. Figure 1 shows the property location.

Access to the Fording River property is by paved road northeast from Elkford along the Fording River Valley, or north along the Elk River Valley via the Forestry Service gravel road or the Kan-Elk Powerline road.

ii. Property History

The Elk River portion of the property was actively explored by the Canadian Pacific Railway Company in the period between 1902 and 1908. Until 1947, the property was comprised of 10,276 hectares in 40 Crown Granted Lots. In that year, the holdings were reduced to 2,979 hectares in 15 Crown Granted Lots. In 1967 and 1968, Canadian Pacific Oil and Gas reacquired part of the coal lands which had been abandoned in 1947. An additional nine Coal Licenses located at the south end of the property were acquired in 2001. At the present time, the Fording River Property consists of 22, 635 hectares, held on seven Coal Leases, 9 Coal Licenses, and 15 Crown Granted Lots.

Mining operations, which commenced in 1971, have produced more than 257 million tonnes of clean metallurgical and thermal coal for markets in North and South America, Africa, Europe, and Asia.

iii. Coal Licenses and Tenure

Currently, 28 coal licenses for Fording River Operations, BC are held by Teck Coal Limited. The tenure number, name, owner, grant and expiry dates, and area are summarized in Table 1. All licenses are located in British Columbia in the Fort Steel Mining Division. The location and distribution of coal licenses are shown on Figure 2.

Table 1 FRO Coal Licenses

Tenure Number	Name	Owner	Grant Date	Expiry Date	Area (ha)	Tenure Type	Project	
389275	COAL LEASE No. 01	TECK COAL LIMITED	1/1/1974	1/1/2025	1,009	Coal Lease No. 1 (389275)	Fording River Operations, BC	
389282	COAL LEASE No. 02	TECK COAL LIMITED	5/19/1977	5/19/2028	2,250	Coal Lease No. 2 (389282)	Fording River Operations, BC	
389285	COAL LEASE No. 05	TECK COAL LIMITED	3/17/1982	3/17/2018	644	Coal Lease No. 5 (389285)	Fording River Operations, BC	
389290	COAL LEASE No. 09	TECK COAL LIMITED	10/1/1991	10/1/2021	1,096	Coal Lease No. 9 (389290)	Fording River Operations, BC	
389310	COAL LEASE No. 16	TECK COAL LIMITED	5/9/1998	5/9/2028	2,859	Coal Lease No. 16 (389310)	Fording River Operations, BC	
389311	COAL LEASE No. 17	TECK COAL LIMITED	5/9/1999	5/9/2029	8,180	Coal Lease No. 17 (389311)	Fording River Operations, BC	
389312	COAL LEASE No. 18	TECK COAL LIMITED	1/30/2000	1/30/2030	1,298	Coal Lease No. 18 (389312), includes Crown Grants	Fording River Operations, BC	
402047	CLIC-402047	TECK COAL LIMITED	5/8/2003	5/8/2016	259	Coal License	Fording River Operations, BC	
402048	CLIC-402048	TECK COAL LIMITED	5/8/2003	5/8/2016	129	Coal License	Fording River Operations, BC	
402049	CLIC-402049	TECK COAL LIMITED	5/8/2003	5/8/2016	258	Coal License	Fording River Operations, BC	
402050	CLIC-402050	TECK COAL LIMITED	5/8/2003	5/8/2016	259	Coal License	Fording River Operations, BC	
402051	CLIC-402051	TECK COAL LIMITED	5/8/2003	5/8/2016	261	Coal License	Fording River Operations, BC	
402052	CLIC-402052	TECK COAL LIMITED	5/8/2003	5/8/2016	258	Coal License	Fording River Operations, BC	
402053	CLIC-402053	TECK COAL LIMITED	5/8/2003	5/8/2016	129	Coal License	Fording River Operations, BC	
402054	CLIC-402054	TECK COAL LIMITED	5/8/2003	5/8/2016	129	Coal License	Fording River Operations, BC	
402055	CLIC-402055	TECK COAL LIMITED	5/8/2003	5/8/2016	259	Coal License	Fording River Operations, BC	
402056	CLIC-402056	TECK COAL LIMITED	5/8/2003	5/8/2016	259	Coal License	Fording River Operations, BC	
402057	CLIC-402057	TECK COAL LIMITED	5/8/2003	5/8/2016	130	Coal License	Fording River Operations, BC	
402058	CLIC-402058	TECK COAL LIMITED	5/8/2003	5/8/2016	240	Coal License	Fording River Operations, BC	
402105	CLIC-402105	TECK COAL LIMITED	5/8/2003	5/8/2016	259	Coal License	Fording River Operations, BC	
402106	CLIC-402106	TECK COAL LIMITED	5/8/2003	5/8/2016	325	Coal License	Fording River Operations, BC	
402110	CLIC-402110	TECK COAL LIMITED	5/8/2003	5/8/2016	258	Coal License	Fording River Operations, BC	
402111	CLIC-402111	TECK COAL LIMITED	5/8/2003	5/8/2016	255	Coal License	Fording River Operations, BC	
402112	CLIC-402112	TECK COAL LIMITED	5/8/2003	5/8/2016	228	Coal License	Fording River Operations, BC	
402113	CLIC-402113	TECK COAL LIMITED	5/8/2003	5/8/2016	95	Coal License	Fording River Operations, BC	
402115	CLIC-402115	TECK COAL LIMITED	5/8/2003	5/8/2016	284	Coal License	Fording River Operations, BC	
417067	CLIC-417067	TECK COAL LIMITED	10/14/2005	10/14/2016	259	District Lot 6704	Fording River Operations, BC	
417068	CLIC-417068	TECK COAL LIMITED	10/14/2005	10/14/2016	259	District Lot 6705	Fording River Operations, BC	

2. GEOLOGY

i. Stratigraphy

The general stratigraphic succession on the Fording River Property is summarized in the following table:

Period	Litho-Stratigraphic Units		graphic Units	Principle Rock Types			
Recent				Colluvium			
Quaternary				Clay, silt, sand, gravel, cobbles			
Lower Cretaceous	Blairmore Group		ore Group	Massive bedded sandstones and conglomerates			
		Elk Formation		Sandstone, siltstone, shale, mudstones,			
			Formation	chert pebble conglomerate, minor coal			
		Mist Mountain		Sandstone, siltstone, shale, mudstones, thick coal			
			Formation	seams			
Lower Cretaceous to Upper Jurassic	KOOTENAY GROUP	FORMATION	Moose Mountain Member	Medium to coarse-grained quartz- chert sandstone			
Gurassie	KO	MORRISSEY	Weary Ridge Member	Fine to coarse-grained, slight ferruginous quartz-chert sandstone			
Jurassic	Fernie Formation		Formation	Shale, siltstone, fine-grained sandstone			
Triassic	Spray River Formation Rocky Mountain		ver Formation	Sandy shale, shale quartzite			
1103310			Mountain	Quartzite			
Mississippian	Rundle Group		lle Group	Limestone			

Table 2Fording River Stratigraphy

The oldest rocks present on the Fording River property are the Rundle Group limestone, located on the west bank of the Fording River, near the southern property boundary.

These rocks are in faulted contact with the Kootenay Group to the west, and unconformable contact with Rocky Mountain Formation quartzites to the north. The latter are best exposed on the eastern slope of the Brownie Creek valley.

The Fernie Formation shales occur throughout the area, generally along the sides of the valleys on the lower flanks of the mountains. The shales are recessive and, generally poorly exposed. However there are some good exposures of Fernie Formation strata on the lower western slopes of Eagle Mountain in some creek drainages. The Fernie Formation is in conformable contact with the Morrissey through the "Passage Beds," which are a transitional zone from marine to non-marine sedimentation.

The Morrissey Formation, which is the "basal sandstone" of the Kootenay Group, is a prominent cliffforming marker horizon in many locations. On the Fording River property, the top of the Moose Mountain member (Morrissey Formation) is in sharp contact with 010 seam, the lowermost bed of the Mist Mountain Formation.

The Mist Mountain Formation contains all of the economic coal seams, and is the most widely occurring formation on the Fording River property. This economically important formation is an interbedded sequence of sandstones, siltstones, silty shales, mudstones, and medium to high volatile bituminous coal seams. The volatile content of the coal increases up section, with decreasing rank. Lenticular sandstones comprise about 1/3 of the Mist Mountain sediments at Fording River, but very few laterally extensive sandstone beds exist.

The sandstone immediately above and below seam 040 and above 090, are the most persistent units, and are often cliff-forming marker horizons.

The Mist Mountain Formation is generally overlain conformably by strata of the Elk Formation. On the Fording property, this formation is commonly a succession of sandstones, siltstones, shales, mudstones, chert pebble conglomerates, and sporadic, thin, high volatile bituminous coal seams. The coal seams are characterized by high alginate content and referred to as "Needle" coal. The Elk Formation is observed near the tops of the mountains, mainly on the east side of the Elk Valley on the Greenhills Range, and northward to the Mount Tuxford areas.

The top of the Elk Formation marks the upper boundary of the Kootenay Group, which is unconformably overlain by the basal member of the Blairmore Group. This thick bedded, cliff-forming sandstone and conglomerate unit is observed on the upper slopes of Mount Tuxford.

ii. Structure

Subsequent to deposition, the sediments were involved in the mountain building movements of the late Cretaceous to early Tertiary Laramide orogeny. The major structural features of the Fording River property are the North-South trending synclines with near horizontal to steep westerly dipping thrust faults, and a few high angle normal faults. Some of the thrust faults were probably folded late in the tectonic cycle.

The formation of the major fold structures began early in the tectonic cycle. In the current mining area, two asymmetric synclines are evident: the Greenhills Syncline to the west, and the Alexander Creek Syncline to the east of the Fording River.

The thrust faulting (i.e.: the Ewin Pass and Brownie Ridge Thrusts), was probably contemporaneous with the later stages of folding. The intervening anticline was subsequently faulted (Erickson Fault), then eroded.

The Alexander Creek Syncline can be traced from the southern property boundary on Castle Mountain to the northern end of the property on Weary Ridge. The strata of the west limb, on the west face of Eagle Mountain, dip easterly at 20 to 25°, decreasing gradually to zero as the axis is approached. The east limb, however, attains a 20° westerly dip within a much shorter (500m) distance of the axis.

This asymmetry is possibly due, at least in part, to the influence of the Ewin Pass Thrust which subcrops 600 to 800 meters east of the synclinal axis.

Further to the east, on Brownie Ridge, the strata dip westerly at a mean dip of 42°. The Brownie Ridge Thrust, which subcrops near the crest of the ridge, probably contributes to this steepening.

Within the mining area, the axis of the Alexander Creek Syncline plunges to the north at an average of 4°. Turnbull Mountain exhibits a localized series of en echelon fold structure, plunging both to the north and to the south. These subsidiary folds may be related to thrust faulting. From the south end of Mount Tuxford, the synclinal axis continues north- northwest along the base of Mount Veits and into the Elk River Valley near Aldridge Creek.

On Mount Tuxford, the beds exposed are those of the Elk Formation and the overlying (non-coal bearing) Cadomin Formation. The area has not been extensively explored. The stratigraphic sequence of the east limb, in the more extensively explored Mist Mountain strata near Aldridge Creek (Elco property), closely resembles the east limb strata found on Henretta Ridge, ten kilometers to the south.

On the northwest corner of Eagle Mountain, the lower Kootenay-upper Fernie section is the locus for a zone of near horizontal thrust faulting. The effect is to cause a double repetition of the lower coal seams and basal sandstone on the west synclinal limb. This fault zone is synclinal in form and continuous with the Ewin Pass Thrust zone found in the east limb.

The Greenhills Syncline in the mining area is essentially a "mirror-image" of the Alexander Creek structure. The east limb of the asymmetric syncline dips westerly at 15 to 25°, except in areas near the Erickson Fault, where 45 to 55° dips are common. The west limb exhibits much steeper dips, commonly in the 35 to 45° range. The Greenhills Syncline plunges northward (340 to 350°), at less than 5°, and then appears to die out to the north in the area of the Osborne Creek Depression.

The Erickson Fault, which locally runs along the base of the Greenhills Range, west of the Fording River, is one of the major regional faults. From south to north, this westerly dipping (40 to 70°) normal fault, brings Mist Mountain strata progressively into contact with Rundle, Rocky Mountain, Spray River, Fernie, and Morrissey strata. The downthrown block is to the west. Near the south end of Lake Mountain, the Erickson Fault begins to "splay" into two zones.

The main fault runs along the eastern margin of Lake Mountain, and the subsidiary fault runs to the west and appears to "die out" northward. The steep northward dip exhibited in the Lake Mountain strata could be due to influence from these flanking "splays" of the fault. The flat lying region to the north of Lake Mountain (Osborne Creek Depression area) is completely void of outcrop, and the Erickson Fault has not been traced either through or to the north of this area.

3. 2015 SUMMARY OF EXPLORATION WORK

i. 2015 Turnbull Exploration Project Objectives

In 2015 Fording River conducted an exploration drilling and coal sampling program on the Turnbull Mountain property.

Eleven reverse circulation holes were drilled for geological and coal quality purposes. Two diamond drill holes and three reverse circulation holes were drilled on the south flank of Turnbull Mountain to obtain geotechnical data. In total sixteen drill holes were completed for a cumulative drilled length of 7,004 m, and geophysical logs were completed at each hole.

The overall objective for the 2015 Turnbull Exploration drilling program was to improve resource confidence and increase coal location and quality knowledge using tighter spaced drilling, focused

sampling and additional coal quality analyses.

These objectives were accomplished by

- Developing and implementing an exploration program that included drilling and logging of 11 new reverse-circulation (RC) coal exploration holes, as well as five geotechnical holes;
- Revising geological interpretation that was based on historic mapping and drilling in the Turnbull Mountain area;
- Integrating the new exploration and geotech drilling results with previous historic programs;
- Updating the geological interpretation based on new drilling;
- Determine the coal quality of the represented coal seams from cuttings samples;
- Updating the coal resources in the exploration area using a computer geologic model; and
- Improve resource model and support an economic assessment of Turnbull Mountain.

Prior to drilling, deteriorated pre-existing exploration roads and trails were improved to allow drilling equipment access. Timber harvesting, new excavated trail, and drill pad construction was completed by local contractors to provide access to new drill holes.

Each hole was geophysically logged and representative coal samples were collected from the drillholes.

Each drilling location was surveyed to obtain exact coordinates and elevations. The exploration project was completed under the direction and supervision of Fording River Operations' site geology team.

The following table shows the drillhole locations with respect to Coal Leases.

 Table 3

 Turnbull Drillhole Locations Relative to Coal License

Coal License	Drillholes
389290	3388, 3389, 3391, 3393, 3394, 3395, 3397
389275	3387, 3392
389311	3396, 3390, 3405, 3408, 2831B, BH15-02, BH15-01

ii Summary of Completed Work

The total cost for the 2015 Turnbull Exploration Project was \$1,574,550 See Appendix 1 for the cost statement.

The exploration project planning, execution, and geological interpretation and modeling were completed by the Fording River geology team.

Prior to drill site preparation, the excavated trails and exploration drill sites were located by the Fording River environmental team. Excavated trail and drill site construction for the 2015 program began in May, 2015. The new roads and drill pads were completed by the Nohels Group, Sparwood, BC and timber harvesting services was conducted by Trucut Logging Ltd., Sparwood, BC.

Reverse circulation drilling services were performed by Foraco Canada Ltd., Calgary, AB using a Schramm T685WS-D drill rig. The reverse circulation drilling method was chosen as the preferred method for collecting uncontaminated, representative and accurately located coal samples.

As sampling accuracy is critical to develop an accurate understanding of coal seam thickness and quality, Fording River utilized a rigorous Quality Assurance/Quality Control procedure to assure accurate collection of coal samples.

A total of fourteen reverse circulation and two diamond drill holes were completed by Foraco for a cumulative drilling length of 7,004 m. Drillhole depths ranged between 232 and 600 m, averaging 437m. Drillhole information is given in Table 2, and the exploration area with drillhole locations are shown in Figure 4.

Drillhole		UTM COC	ORDINATES				Hole
Name	Purpose	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)
3408	geological	655,265.69	5,564,488.66	2,378.06	0	-90	384
3387	geological	652,865.34	5,564,496.87	1,949.07	0	-90	568
3388	geological	653,582.52	5,565,462.42	2,217.72	0	-90	600
3389	geological	654,031.75	5,565,448.17	2,220.95	0	-90	540
3390	geological	654,517.78	5,565,087.23	2,261.08	0	-90	564
3391	geological	653,717.86	5,565,748.31	2,104.44	0	-90	470
3392	geological	653,478.65	5,564,722.19	2,195.47	0	-90	575
3393	geological	654,202.61	5,566,050.27	2,090.58	0	-90	396
3394	geological	654,600.20	5,565,799.81	2,116.82	0	-90	232
3395	geological	654,038.88	5,566,429.44	1,921.16	0	-90	499
3396	geotechnical	654,024.36	5,564,337.29	2157.526	0	-90	458
3397	geological	654,092.63	5,565,784.16	2109.533	0	-90	482
3405	geotechnical	654,484.87	5,564,328.58	2252.987	0	-90	400
2831B	geotechnical	654,848.21	5,564,337.68	2267.866	0	-90	305
BH15-01	geotechnical	654514.53	5564102.788	2130.487	56.7	-60	400
BH15-02	geotechnical	653994.59	5564106.561	2019.2	170	-80	305

Table 42015 Drill Hole Collar Locations

Downhole geophysical logs were completed by Century Wireline Services, Penhold AB. Each hole was logged through the drill pipe for gamma-neutron. Open holes were logged for downhole deviation and gamma density. The geophysical logs are in Appendix 2.

Coal seams intersected by reverse circulation drilling were sampled in 0.5 meter intervals. Representative composite samples for each coal seam were prepared at Fording River Operation's onsite process plant laboratory. Raw composite samples received in-house raw proximate, sulphur, and FSI analysis.

Composites were forwarded to GWIL Industries, Calgary, AB, for single gravity wash and fluorine analysis. Clean coal samples were returned to the Fording River laboratory where Fording River

Operation's staff completed in-house clean proximate analysis: ash, volatile matter, raw moisture, fixed carbon, sulfur, P2O5, and FSI. Pearson Coal Petrography, Victoria BC, completed Petrographic analysis.

4. RESULTS

The primary goal of the 2015 drilling program on Turnbull Mountain was to improve resource confidence through tighter spaced drilling, and increase coal location and quality knowledge. Holes were drilled to infill to an approximate 400 meter density between the 2014, and prior Turnbull exploration holes with favorable results. The project consisted of fourteen reverse circulation and two diamond drill holes an average depth of 437 meters. The holes intersected much of the stratigraphic section, from the Elk formation to the Mist Mountain. Down hole geophysical data was collected from the geotech holes, and used in the geological model as well. To-date, geotechnical analysis has not been fully completed.

The Mist Mountain Formation in the Turnbull mountain area is structurally dominated by the Ewin Pass (TB_Major thrust 210-220) and Brownie Ridge (220-230 Fault) thrust faults, with displacement of over 250 and 100 meters respectively. The three major fault blocks in Turnbull mountain are known as the 210 (west of Ewin Pass fault), the 220 (east of Ewin Pass and west of Brownie Ridge fault), and the 230 (east of Brownie Ridge fault) The Turnbull mountain area contains five dominant coal seams (40, 50, 70, 110 and 130 packages) which are consistently greater than four meters in thickness, and often significantly thicker. Previous thick intersections of the 110 seam in the 220 fault block were confirmed, and potential spoiling areas east of lowermost 040 seam in the 220 fault block were defined. The remaining seam packages were intersected but are generally less than three meters and can lack continuity. Cross sections which illustrate the faults blocks and major coal seams are shown in Figure 5, 5-1, and 5-2.

In house clean coal assay results from the composite samples were added to the seam's qualities in the geological data base and interpolated in the geological model. Seam qualities support the coal's marketability and assist the long term mine plan for the region. Fording River in-house clean and raw analyses are provided in Appendix 3. Fluorine data compilation and data verification is not complete so results are not published in this report. To-date, coal petrography reports have not been processed.

The 2015 drilling program results were incorporated into the Fording River East 3D Block Model. The geological model will be used for detailed mine planning and economic analysis. For modeling methods and parameters please refer to Appendix 4.

There are no reserves published for Turnbull Mountain as detailed engineering work has not been completed. Turnbull Mountain resources are incorporated with Eagle (area to south) and Henretta (area to the north) resources, and are collectively called FRO East. Resources for FRO East are explained in Table 5.



5. CONCLUSION

The 2015 exploration drilling program has successfully increased drillhole density and resource confidence in Turnbull Mountain. The program confirmed the location and continuity of all coal seams in the Turnbull Mountain area allowing improved geological and structural interpretation. The assay results confirmed favorable coal quality data that have been incorporated into the geological model. Fording River Operations has now updated its current model, and a mine engineering economic assessment of Turnbull Mountain is under evaluation.

Further RC drilling to improve resource confidence and to increase the amount and density of coal quality data including ash, volatile matter, P₂O₅, FSI, fluorine, and fluidity is recommended prior to detailed planning for Turnbull mining. In addition, bulk sampling using large diameter drilling methods is recommended for pilot plant washability analysis and carbonization testing.

6. AUTHOR'S QUALIFICATIONS

Statements of Author's Academic and Professional Qualifications CERTIFICATE OF QUALIFIED PERSON

Name: Barry F. Musil, P.Geo.

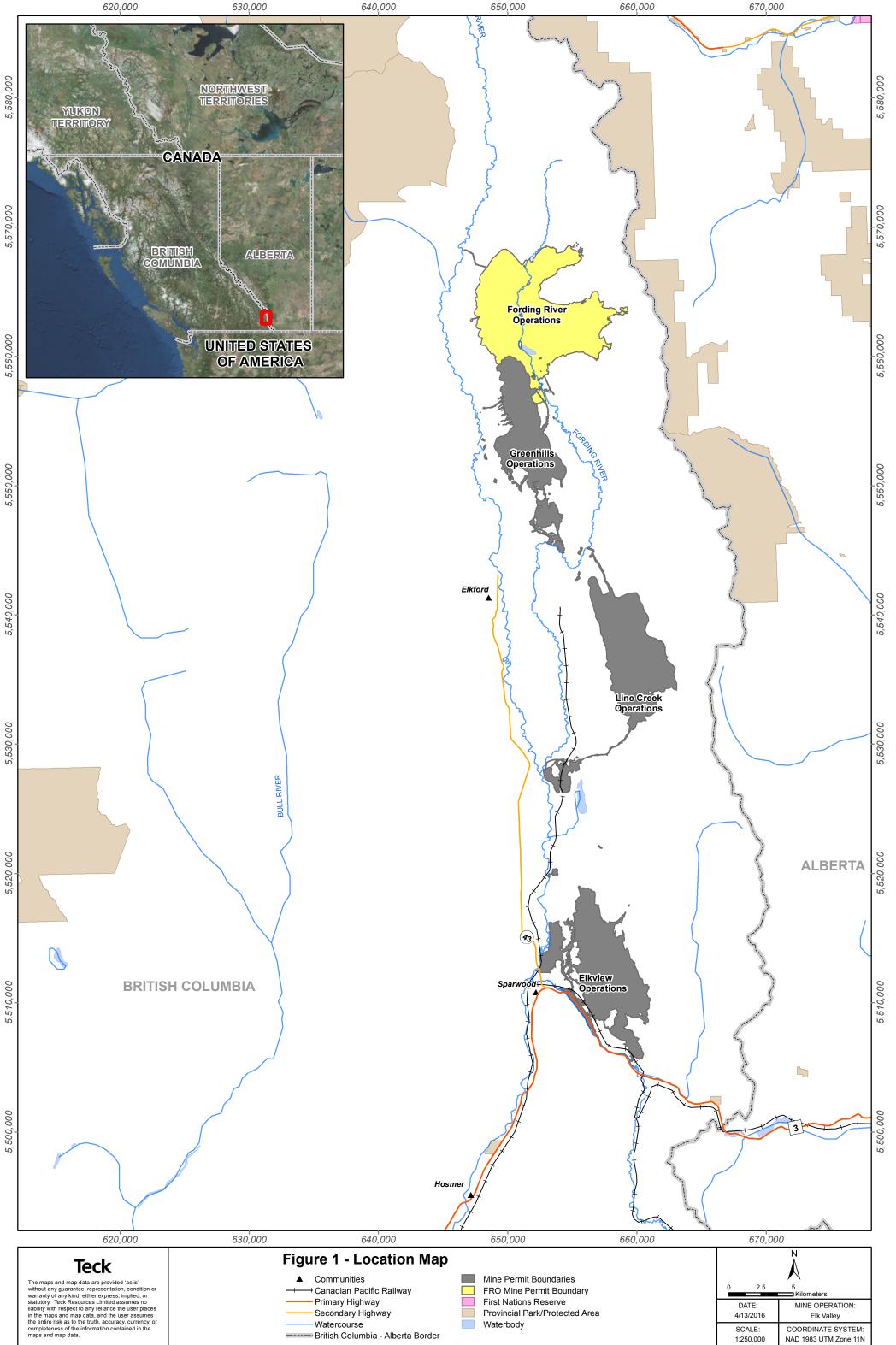
Company: Teck Coal Limited

Address: Fording River Operations P.O. Box 100 Elkford, BC VOB IHO Phone: (250) 865-5169

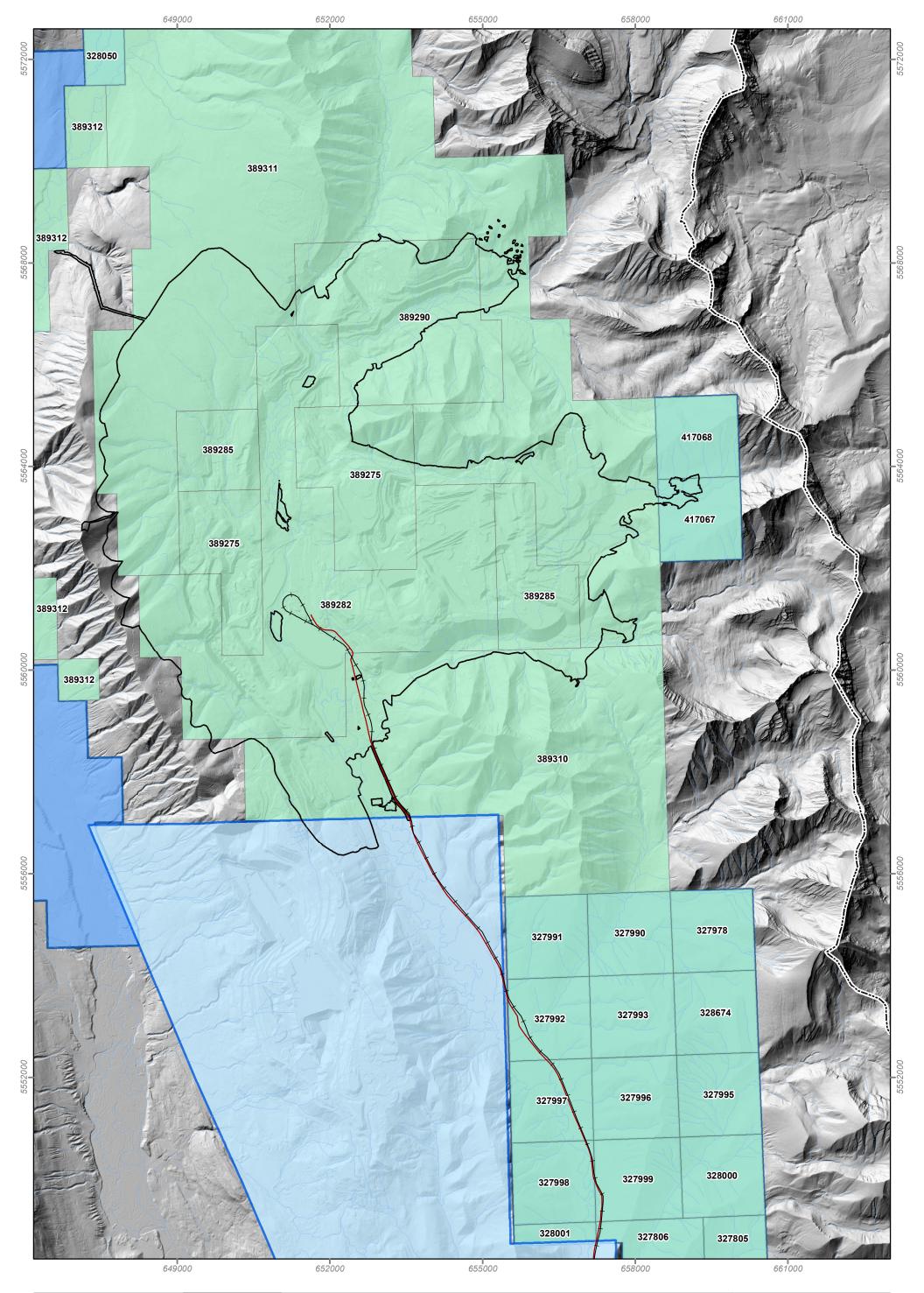
I, Barry F. Musil, P.Geo, am employed as a Senior Geologist, Supervisor at Fording River Operations. This certificate applies to the report titled "Fording River Operations, Assessment Report, 2015 Turnbull Exploration Program". I graduated from the University of British Columbia with a Bachelor of Science Degree in Geology, 1984. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (# 19361). Since 1986 I have been involved with coal mining projects at Fording River, and other Teck Coal Operations. As a result of my experience and qualifications, I am a Qualified Person as defined in National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101).

"Signed and Stamped"

Barry F. Musil, P.Geo.

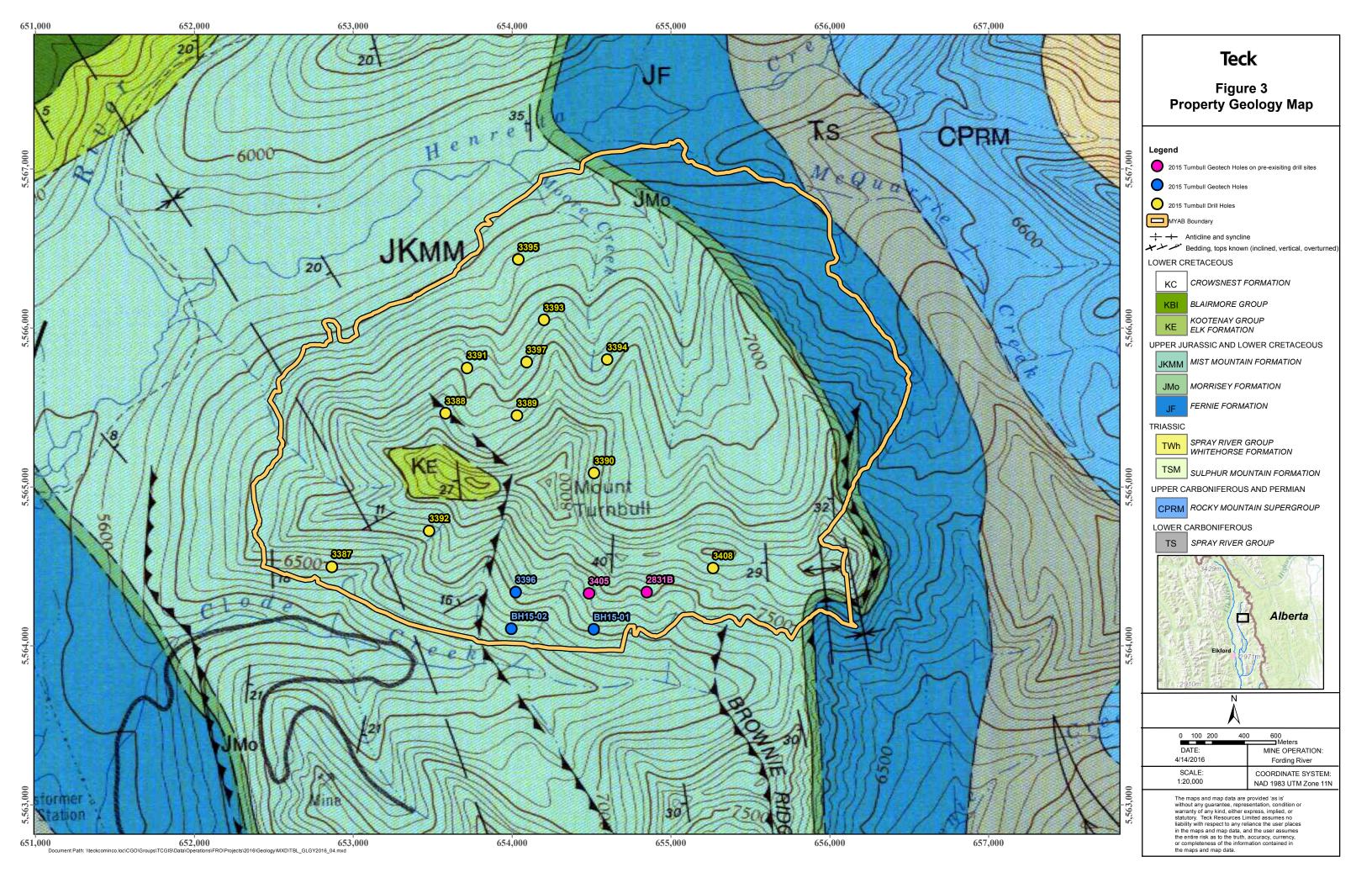


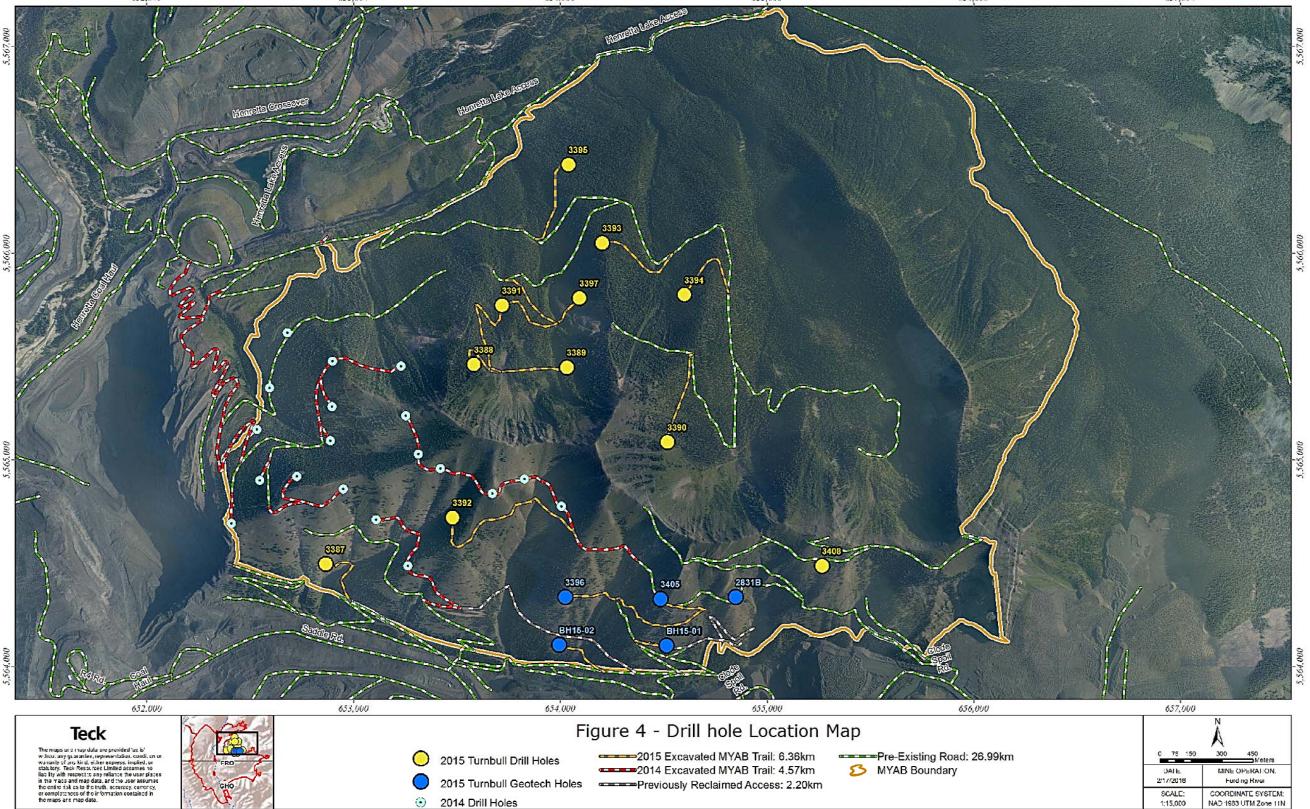
ent Path: \\teckcominco\CGO\Groups\TCGIS\Data\Operations\FRO\Projects\2016\General Maps\MXD\ElkValley_Overview_Inset_11x17.mxd



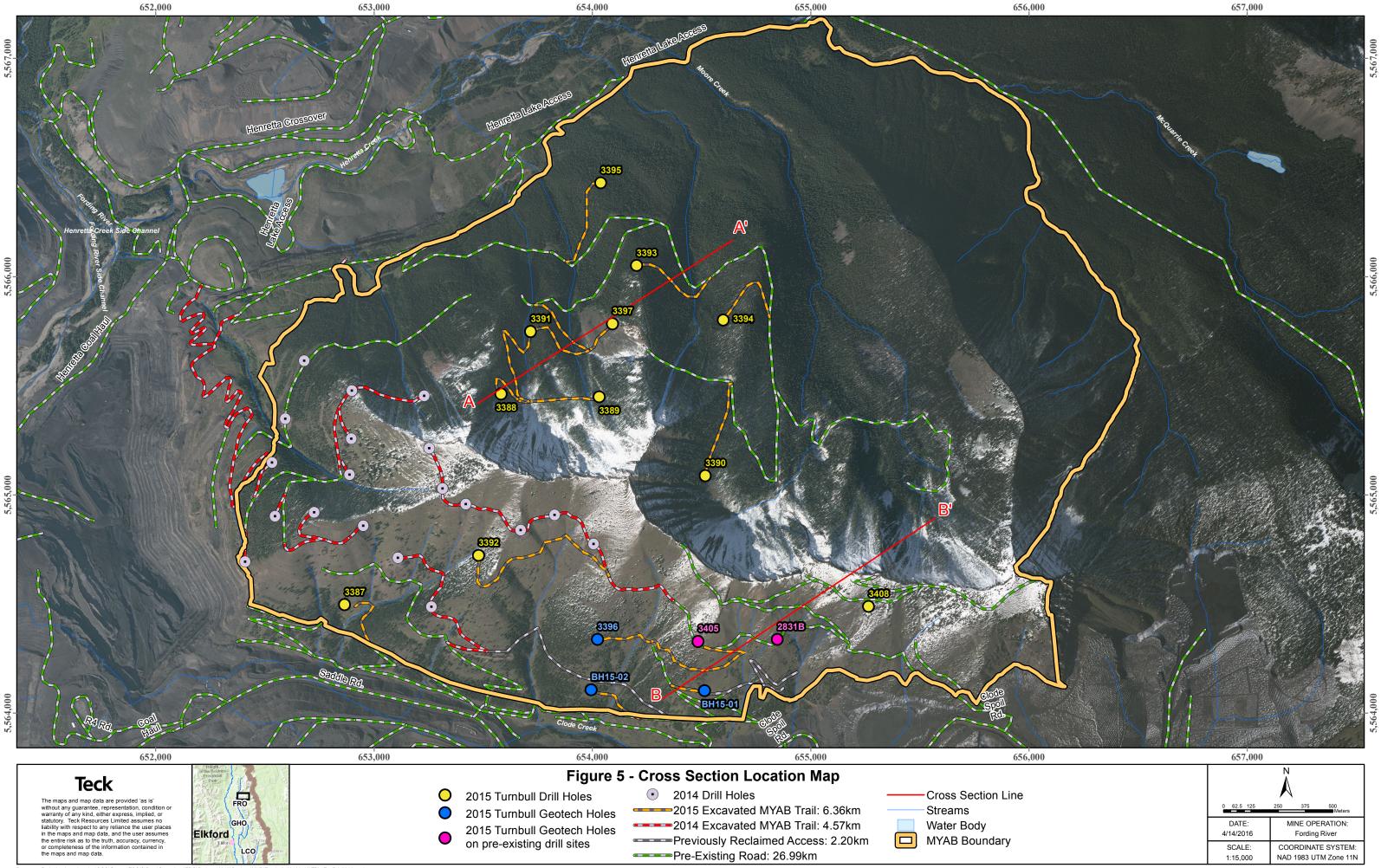


Document Path: \\teckcominco\CGO\Groups\TCGIS\Data\Operations\FRO\Projects\2016\Geology\MXD\Turnbull_20160412\TBL_Claim2015.mxd





NAD 1983 UTM Zone 11N



2016\Geology\MXD\Turnbull_20160412\TBL_ExpRds2015.mxd

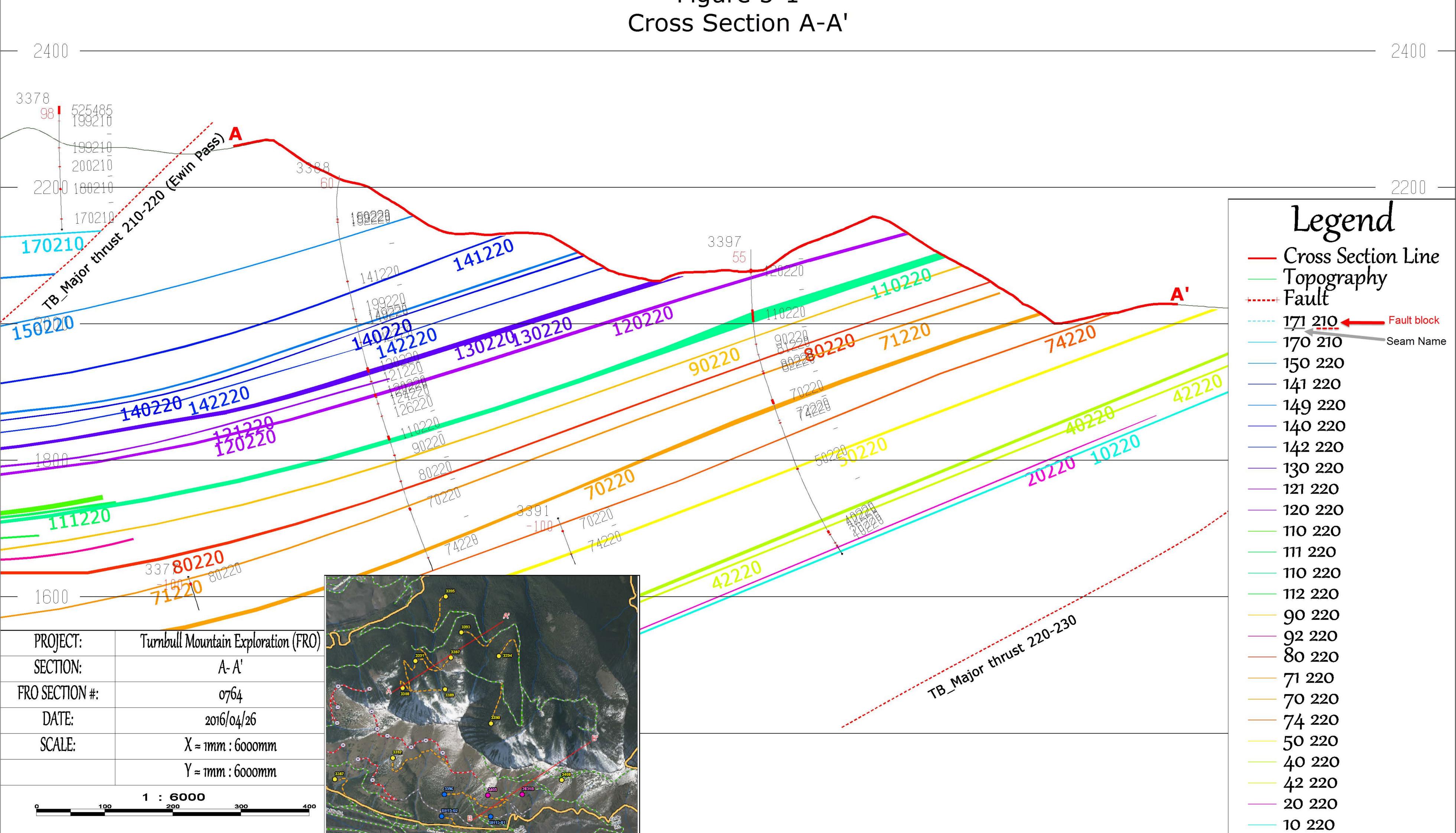
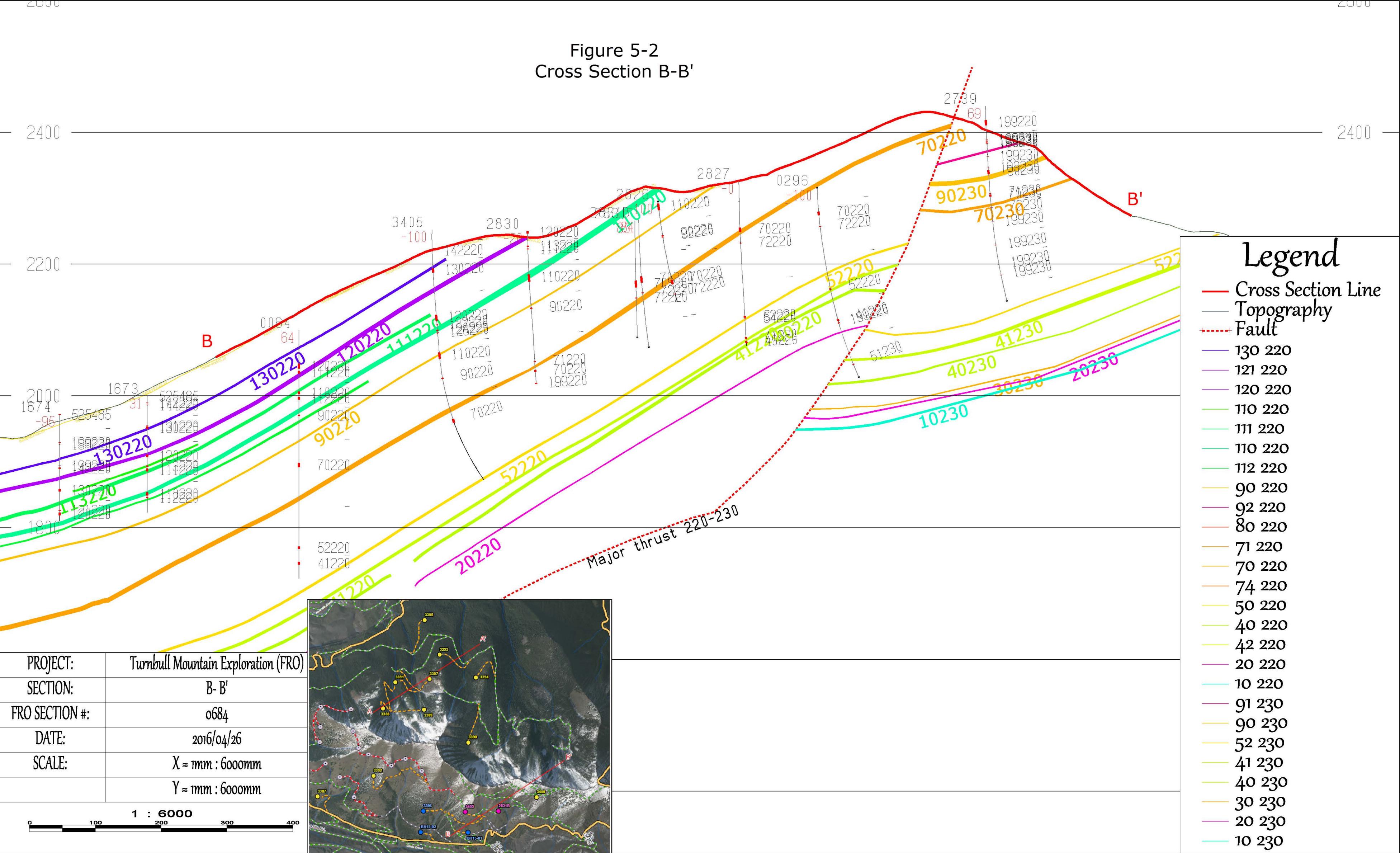


Figure 5-1





Appendix 1 - Cost Statement

Exploration Work type	Comment	Days			Totals
Personnel (Name) * / Position	Field Days (list actual days)	Dave	Data	Subtotal*	
	lield Days (list actual days)	Days	\$0.00		
			ψ0.00	\$0.00	\$0.00
Office Studies	List Personnel (note - Office or	nlv do no	t include :		φ0.00
Literature search			\$0.00		
Database compilation			\$0.00		
Computer modelling			\$0.00		
Reprocessing of data			\$0.00		
General research			\$0.00		
Report preparation			\$0.00		
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Airborne Exploration Surveys	Line Kilometres / Enter total invoiced	amount		\$0.00	\$0.00
Aeromagnetics			\$0.00	\$0.00	
Radiometrics			\$0.00		
Electromagnetics			\$0.00		
Gravity			\$0.00		
Digital terrain modelling			\$0.00		
Other (specify)			\$0.00		
			¢0.00	\$0.00	\$0.00
Remote Sensing	Area in Hectares / Enter total invoiced	amount or	list nersonn		\$0.00
Aerial photography			\$0.00		
LANDSAT			\$0.00		
Other (specify)			\$0.00		
			ψ0.00	\$0.00	\$0.00
Ground Exploration Surveys	Area in Hectares/List Personnel			\$0.00	\$0.00
Geological mapping					
Regional		note: ex	penditures	here	
Reconnaissance			/	in Personnel	
Prospect			penditures a		
Underground	Define by length and width				
Trenches	Define by length and width			\$0.00	\$0.00
			I		
Ground geophysics	Line Kilometres / Enter total amount	invoiced list	t personnel		
Radiometrics					
Magnetics					
Gravity					
Digital terrain modelling					
Electromagnetics	note: expenditures for your crew in	n the field			
SP/AP/EP	should be captured above in Perso				
IP	field expenditures above				
AMT/CSAMT					
Resistivity					
Complex resistivity					
Seismic reflection					
Seismic refraction					
Well logging	7,023 Meters			\$178,880.00	
Geophysical interpretation					
Petrophysics					
Other (specify)					
	• •	·	·	\$178,880.00	\$178,880.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Drill (cuttings, core, etc.)	135 Single gravity wash and 103 Fl	luorine	\$446.96	\$60,339.00	
Stream sediment			\$0.00	\$0.00	

Rock Jaboratory costs 9.000 90.00 90.00 Water S0.00 S60.339.00 S60.00 S1.095.428.0 S1.095.428.0 S1.095.428.0 S1.095.428.0 S1.095.428.0 S21.590.30 S215.903.0 S21.095.33.0 S21.095.33.0 S21.690	Soil	note: This is for assays or		\$0.00	\$0.00	
Water S0.00 S0.00 S0.00 Biogeochemistry \$0.00 \$0.00 \$0.00 Whole tack \$0.00 \$0.00 \$0.00 Petrology \$0.00 \$0.00 \$0.00 Other (specify) \$0.00 \$0.00 \$60.339.0 Drilling No. of Holes, Size of Care and Metres \$0.00 \$60.339.0 Prilling No. of Holes, Size of Care and Metres \$337.26 \$185,828.00 Reverse circulation (RC) 14 holes, 6472 meters \$30.00 \$50.00 Reverse circulation (RC) 14 holes, 6472 meters \$1005,428.00 \$1,095,428.00 Other Operations Clarify No. Rate \$ubtotal Trenching \$0.00 \$0.00 \$1,095,428.00 Other Operations Clarify No. Rate \$ubtotal Trenching \$0.00 \$0.00 \$1,095,428.00 Other Operations Clarify No. Rate \$ubtotal After drilling \$0.00 \$0.00 \$21,5903.00 \$21,5903.00						
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Reverse circulation (RC) 14 holes, 6472 meters \$140.54 \$909, 600.00 Rotary air blast (RAB) \$0.00 \$0.00 \$0.00 Other (specify) \$0.00 \$0.00 \$0.00 \$1.095,428.00 Other Operations Clarify No. Rate Subtotal \$1.095,428.00 Bulk sampling \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Underground development \$0.00 \$0.00 \$0.00 \$215,903.00 Cher dyspectry) Road and Pad Construction \$215,903.00 \$215,903.00 Reclamation Clarify No. Rate \$215,903.00 After drilling \$0.00 \$0.00 \$0.00 \$0.00 Monitoring \$0.00 \$0.00 \$0.00 \$0.00 Transportation No. Rate \$ubtotal \$ubtotal Airfare \$0.00 \$0.00 \$0.00 \$0.00 Taxi \$0.00 \$0.00 \$0.00 \$0.00 fuel chreshour) \$0.00 \$0.00 \$0.00			140.			
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