

Mineral Titles Information Update

# No. 8 – Registration of Physical Exploration and Development Work on Claims

Revision Date: May 5, 2024

# PHYSICAL EXPLORATION AND DEVELOPMENT

Section 1 of the Mineral Tenure Act Regulation (the Regulation) defines <u>physical</u> <u>exploration and development</u> activities on mineral and placer claims as:

- trenches, open cuts (for collecting and sampling of mineralized rock), adits, pits, shafts and other underground activity for the purpose of collecting samples or other geological or technical information
- reclamation related to exploration and development activities
- ground control surveys, line cutting and grids that support an activity described in paragraphs (b) to (h) of the definition of technical exploration and development in section 1 of the Mineral Tenure Act Regulation
- precision survey techniques such as global positioning or surveys conducted by a practicing land surveyor
- panning, digging or washing of gravels to test for the presence of economically significant minerals (**on placer claims only**)

Applying exploration and development work to a claim is a two-step process:

- 1. Register the work event in Mineral Titles Online (MTO)
- 2. Submit a completed work report to the Mineral Titles Branch.

For more information about how to register exploration and development in Mineral Titles Online see <u>Statement of Work</u> under MTO Help Documents – Search by Topic.

The Chief Gold Commissioner requires that physical exploration and development work be recorded using the Physical Work Report form and submitted within 30 days of registering the work event registered in MTO. The report can be uploaded into MTO or emailed as an attachment to <u>Mineral.Titles@gov.bc.ca.</u> More information about uploading the physical work report form in MTO can be found at <u>Exploration and Development Work - Upload</u> <u>Report under MTO Help Documents.</u>

The physical work report must clearly demonstrate how physical exploration and development activity was conducted for collecting samples, assessing geological or

Ministry of Energy, Mines and Low Carbon	3 <sup>rd</sup> Floor, 1810 Blanshard St. <i>(appt.</i>	Telephone: 1-866-616-4999
Innovation	only)	
Mineral Titles	PO Box. 9322 Stn Prov. Gov't	Fax: 604-660-2653
	Victoria, BC V8W 9N3	
www.mineraltitles.gov.bc.ca	300 – 865 Hornby Street	Email: Mineral.Titles@gov.bc.ca
	Vancouver, BC V6Z 2G3	

technical information, or for testing for the presence of economically significant minerals. Assay results, geological information or other technical information collected in the field must be included in the report to substantiate that physical exploration and development was completed.

Physical exploration and development work may also be included with the registration of technical exploration and development work. See <u>Information Update 25 - Exploration and Development Work</u>

# WORK REPORT FORM

The Physical Work Report form is available at: <u>https://www2.gov.bc.ca/gov/content/industry/mineral-exploration-mining/mineral-</u> <u>titles/mineral-placer-titles/forms-maps-publications/forms-mineral-placer-titles#Physical</u>

Handwritten reports will not be accepted. Reports must be typed and submitted on the physical work report form.

Section 1 – List statement of work (SOW) event numbers from the work registrations you entered in MTO for the work done.

- Section 2 List claim numbers where the work was done.
- Section 3 Select mineral or placer claim.
- Section 4 Enter recorded holder contact information.

Section 5 – List the report author; if the recorded holder and report author are the same person, leave section 5 blank.

Section 6 – Enter both, a range of dates, and the exact dates the work was completed. Select either hand work or mechanical for the work type. If the mechanical checkbox is selected, check the checkbox for Approved Mines Act Permit and provide the permit number and permit approval number.

Section 7 – Describe in detail the work activity, location, and global positioning system (GPS) coordinates for all site locations. Incomplete information will result in returned work reports and/or cancelled registrations of work.

- Describe sites in meters (length x width x depth) to indicate a total volume in cubic meters (m3).
  - Amounts tested may also be entered as a volume estimate in cubic meters (m3).

- Amounts produced may be entered as a weight measurement in grams, milligrams, micrograms or ounces.
- Enter instructions for traveling to the site(s) where work was done. This ensures an Inspector may easily locate the site(s).
- Create a map at a scale of 1:10,000 or more detailed that accurately identifies the geographic location of the work site(s) relative to the claim boundaries, The 'make a map' button provides <u>instructions on how to make an acceptable map</u>.
- Provide a detailed written description explaining the type of activity and the result obtained as per <u>Section 15(1)(a)</u> of the Mineral Tenure Act Regulation.
  - This may take the form of either assay results, other geological or technical information or a written description of samples.

If conducting placer work, please clearly specify in grams, milligrams, micrograms or ounces how much gold or amounts of other placer minerals were recovered.

Section 8 – Complete the cost statement as it relates to transportation, labour, exploration equipment and, food and lodging costs. See section 'Cost Statement Guidelines' below for detailed information.

#### Section 9 - Summarize additional report details in this section.



Section 10 - Certify the report for completeness and accuracy by including the name of the recorded holder/agent and date.

**Note**: In order to enter mineral lands and work on a mineral title you must have a current and valid FMC; this includes an agent of a free miner (as per S. 11(1) of the <u>Mineral Tenure</u> <u>Act</u>). A person must be at least 18 years of age or over and ordinarily a resident of Canada for at least 183 days in each calendar year or authorized to work in Canada to possess a <u>free miner certificate</u>. Work performed on a mineral title by someone with a suspended FMC, no FMC, or an expired FMC will not be eligible for work credits.

#### 10. CERTIFICATION OF REPORT (Required)

I hereby certify that the information contained in this report is a complete, true and accurate description of the work performed on the aforementioned title(s), and understand that any false statement or report may be grounds for cancellation of my claim(s) under Section 40 (1)(b) of the *Mineral Tenure Act*.

**Recorded Holder/ Agent** 

Date (YYYY-MM-DD)

## **COST STATEMENT GUIDELINES**

A cost statement detailing all the costs for claiming credit must be included in the report.

The following information is intended as a guide to estimate the costs of labour, machinery, and equipment that were used, to determine the value of physical exploration and development work performed.

The figures in this guide are approximations.

Receipts for items claimed in a cost statement must be provided on request.

Goods and Services Tax (GST) may be included in approved costs, where it has been paid in the purchase of goods and services.

Transportation and travel costs may be included to a maximum of 20% of the value allowed for the exploration and development work completed on the claim(s). When aircraft are used, up to 50% of the cost of the exploration and development work completed may be included for transportation/travel costs. The actual value of the transportation/travel must be sufficient to justify the 20% or 50% and receipts must be provided if requested. If the actual cost for transportation/travel is less than 20% or 50% (as applicable) of the work value, only the actual costs may be claimed. Transportation/travel costs cannot be included in the work details except as an addition to the value in the cost statement for the total work costs which are exclusive to any transportation and travel. Transportation costs are not stand-alone costs and must be part of an overall exploration program. For Example:

Work Costs:	\$1,000.00	
Maximum transportation/travel allowable:	<u>\$ 200.00*</u>	(20% of \$1,000.00)
Total claimable assessment:	\$1,200.00	

\*the **actual** value of the transportation/travel must be claimed if less than the percentage maximum

#### **VEHICLE TRANSPORTATION RATES**

#### **Pick-up Truck**

4x4	\$0.68 per	km
		-

4x2 \$0.60 per km

Trailer \$0.10 per km

#### ATV

\$1.00/ km OR \$130/day, \$517.55/week, \$1551.80/month

#### Notes:

- ATV use must be entered as daily, weekly or monthly rates in the transportation costs section, as they are only eligible for up to 20% of the total exploration and development cost.
- An ATV or any off-road vehicle used on Crown land must be registered in BC. For more information see <u>https://www2.gov.bc.ca/gov/content/industry/crown-land-water/crown-land/crown-land-uses/off-road-vehicles</u>.

#### LABOUR

	Per Hour
Foreman/Supervisor	\$40.00
Labourers/Additional workers	\$30.00

**Note:** You must provide the names and current client ID numbers described in MTO for each supervisor and labourer on the work report form.

Other rates will only be accepted if invoices and a written description are provided that justify the employment of specialized personnel on the property.

#### MACHINERY AND EQUIPMENT

The rates for machinery and equipment are based on the rental rates published in The Blue Book: Equipment Rental Rate Guide, published by the B.C. Road Builders & Heavy Construction Association and Authorized by the Government of British Columbia (www.roadbuilders.bc.ca). Exceptions to this are noted.

Common equipment models are provided for the most recently produced model year. For any model produced prior to 2005, including some of the common models listed, the appropriate adjustment factor is noted at the bottom of the table. The adjustment factors are as follows:

• 0.96 for model years 2010-2007

- 0.92 for model years 2006-2002
- 0.88 for model years 2001 or older

To adjust rates for the model year of your equipment, multiply the rental rate provided by the appropriate adjustment factor.

In most cases, equipment shown with an hourly 'all found rental rate' are not subject to standby charges.

The make, model and year of the equipment used should be included in the report.

#### **1. EXCAVATORS**

Compact Excavators – under 9526 kg (21000lbs)

Weight tennes (lbs)	Comn	All Found	
Weight tonnes (lbs)	Bobcat Kubota		Rental Rate
1.36 – 2.72 (3000 – 5999)	E20, E26	KX018-4, U27-4	\$99.60
2.72 - 4.08 (6000 - 8999)	E32, E35		\$105.15
4.08 – 5.9 (9000-12999)	E42, E50	KX057-4	\$111.85
5.9 – 7.71 (13000 – 16999)	E60		\$124.25

#### Heavy Hydraulic Excavators

Weight tonnes		C	ommon M	odels		All Found
(lbs)	Case	Cat	Deere	Hitachi	Link-Belt	Rental Rate
Under 14.51		313, 313	130G		130-X4	\$154.60
(32000)		FL	135G	ZX135US-6		
			130P			
14.51 – 19.05		315	160G		145X4	\$167.30
(32000 – 42000)		316F	135P		160X4	
		317	160P			
19.05 – 20.41		318F				\$180.30
(42000 – 45000)		318FL				
20.41 - 23.13	CX210D	320	210G-LC		210-X4	\$197.75
(45000 – 51000)		3320GC	200G			
		325				
23.13 - 26.76	CX250D	323,	245G			\$204.35
(51000 – 59000)		325F,	250G-LC		245-X4	
		326			250-X4	
26.76 - 30.84	CX300D	326F	250P		300-X4	\$228.10
(59000 – 68000)		330 GC				
30.84 - 39.92	CX350D	330	300G-LC		250X4LF	\$274.
(68000 – 88000)		335	345G-LC		350X4	

[		226				
		336	350G-LC			
		336GC	380GLC			
		340	300P			
			345P			
39.92 - 43.54					350X4LF	\$291
(88000 – 96000)						
43.54 - 46.72		345CL			460LX	\$318.85
(96000 –						
103000)						
46.72 - 53.98		3499	470G-LC		490-X4	\$358.80
(103000 –		350	470P			
119000)		352				
53.98 - 68.95		245B/D	550LC	EX550LC-5		\$370.85
(119000 –		365BL	600C-LC	EX700		
152000)				ZX600LC		
Over 68.95	CX700B	374	670G-LC		750X4	\$480.85
(152000)	CX800B	374F	870 G-			
		390F	LC			
		L395	670P			

#### 2. FRONT END LOADERS

Crawler Front End Loaders

Bucket Capacity – m <sup>3</sup>	Common Models			All Found Rental
(cu yd)	Case	Cat	Deere	Rate
0.96 – 1.14 (1.25- 1.5)		933, 933C	244E, 455G	\$124.25
1.15 – 1.33 (1.5 – 1.75)	855E/D	939C, 943	555G	\$131.50
1.53 – 1.71 (2 – 2.5)	1155E		655B	\$145.25
1.72 – 1.9 (2.25 – 2.5)		953D	655K	\$168.25
1.91 – 2.09 (2.5 – 2.75)				\$177.05
2.1 – 2.67 (2.75 – 3.5)		936D		\$186.75

### Rubber Tired Front-End Loaders (4-wheel drive)

Bucket Capacity – m <sup>3</sup>	C	ommon Mode	All Found Rental					
(cu yd)	Case Cat D		Case Cat De		cu yd) Case (		Deere	Rate
Under 0.76 (1)	21F, SR130,	226B 226D	312GR	\$120.45				
	SV185,	232D3	314G					
	SR210,	236D3						
	SV300	242D3						
0.76 (1)	121F, 221F,	903D	204L 244L	\$124.50				
	321F	906 H2	304L					
		907H2908H2						

1.15 (1.5)		906M 920 906 907 908 910	924P	\$141.65
1.53 (2)	521E 521F	908M 910 914	304L 324L 344L 344P	\$148.30
1.91 (2.5)		910M 914M	444L 524L 444P 524P	\$159.20
2.29 (3)	721F	910K 914K	544L 544P 544G	\$169.00
2.68 (3.5)		938	624L 624P 644L 644P 644G 644X 724P	\$184.15
3.06 (4)	821F	950 GC 950M	724L	\$208.70
3.44 (4.5)	921F	926M 930M 938M 982XE 950	744P	\$216.10
3.82 (5)		966M 966M XE 962	744L 824P	\$251.15

#### 3. TRACTORS WITH BACKHOES

	Common Models					
FWHP (KW)	Case	Deere	Ford – N.H.	Kubota	Massey Ferguson	All Found Rental Rate
Crawler						
Under 75	450C	450H				\$126.85
(55.93)	550	450G				
	550E	400G				

	550H						
Rubber Tired	d 4x2 and 4x	4				4x2	4x4
40 - 49.9	885	1250	3010S	L4150	240 250	\$88.45	\$106.50
(29.8 –		2040	3430	L4850	253		
37.2)		5200	3600	M5030D	360		
		5210	3830	Т			
			3930				
			4100				
50 - 59.9	3230	2150	250C	M5950,	174S	\$91.10	\$110.75
(37.3 –	585	2155	345C	M6030F	255		
44.7)	595	2255	445C		261		
		2355N	455C		270		
		5300	4610		362		
		5310	4630		374S		
			530A		4225		
			5600		670		
60 - 69.9	1394	2350	4230	M7030	194F	\$93.50	\$113.70
(44.7 –	685	2355	5000	M6950F	265		
52.1)	4210	2440	5030		275		
	695	2550	5530		283		
		5400	5900		3050		
		5410	6600		3060 <sup>.</sup>		
					375		
					384S		
70 – 79.9	1404	2555	FC105		690		¢110.00
(52.2 – 59.6)	1494 4230	2555 2640	5610S 6530	M7500F M8030	383 390	\$95.05	\$116.65
(32.2 - 39.0)	4230	5500	6610	10050	698		
		5510	6640		3945		
		6210	6640S		4243		
		6300	00405		7273		
80 - 89.9	1594	2750	6610S	M8950	390T	\$69.85	\$118.80
(59.7 – 67)	4240	2755	7600		393 396	+ 55.05	+ 0.00
( 0/)	5220	2940	7610		6150		
	995	2950	7710		398		
		2955	7740		3075		
		6310	77405		3070		
		6400	7810				
90 - 99.9	1896	6410	76105		3505	\$98.55	\$121.35
(67.1 –74.5)	5230	7200	78105		399		
			7840		6170		

### 4. TRUCKS

Dump Truck with Belly Dump, Clam or End Dump

Capacity	Hourly Rental Rate
10.7 m <sup>3</sup> (14 cu yd)	\$160.17
11.5 m³ (15 cu yd)	\$164.25
12.2 m <sup>3</sup> (16 cu yd)	\$150.80
13.0 m <sup>3</sup> (17 cu yd)	\$154.60
13.8 m³ (18 cu yd)	\$158.25
14.5 m³ (19 cu yd)	\$161.85
15.3 m³ (20 cu yd)	\$165.10

#### Articulated Trucks

Weight tonnes	Common Models					All Found
(tons)	Cat	Deere	Моху	Terex	Volvo	Rental Rate
Under 20 (22)	D20D					\$178.15
20-24 (22-26)	725C2	260E		TA350	A25G	\$235.30
				TA400		
25-29 (28-32)	730 C EJ	310E			A30G	\$243.90
	740B EJ	260P				
30-34 (33-37)	735	370E			A35G	\$301.35
	735C 740EJ	310P				
	745					

#### 5. SLUICES AND HIGHBANKERS

Description	Rate/hour (less operator)
Sluices or Highbankers up to \$700.	\$2/hour
Examples: Black Max Highbanker, Goldhawk 2 Highbanker, Goldhawk 10	
Highbanker	
Sluices or Highbankers \$700 to \$1,500.	\$5/hour
Examples: Goldhawk 10 Highbanker with 1.5" pump, Goldhawk 2	
Highbanker with 1.5" pump, Goldeagle 12 Highbanker with pump and hoses	
Sluices or Highbankers \$1,500 to \$2,500.	\$8/hour
Examples: Keene Powersluice incl. hopper, support legs and 4 Hp Engine	
Sluices or Highbankers \$2,500 to \$4,000.	\$14/hour
Examples: Keene Powersluice models 17325 H., 175 H incl. up to a 6.5 Hp	
Engine and up to a 3" intake	

#### **OTHER EQUIPMENT AND MISCELLANEOUS COSTS**

Safety Devices	\$10/day
(SPOT, inREACH), GPS	

Chainsaw	\$30/day for deadfall danger tree work, as used only (i.e. no standby costs).
Report writing	\$30/hr to \$300 maximum
Food Costs	\$50.00/day maximum, per person
Accommodation Costs	Costs for commercial accommodation may be claimed.
	Copies of receipts must be provided.
Camping costs	Maximum is \$50/day, per person (include camping receipt)

### **PROHIBITED COSTS**

Activities listed under <u>Technical Exploration and Development as per Section 1 of the</u> <u>Mineral Tenure Act Regulation</u> cannot be claimed as Physical Exploration and Development work. Some examples include:

- The construction and maintenance of roads and trails provided such work is required to support an activity described in any of paragraphs (b) to (i)
- Ground control surveys, line cutting and grids that support an activity described in paragraphs (b) to (h).
- The costs of drill core storage buildings

Items not defined in the definition of <u>Physical Exploration and Development as per Section</u> <u>1 of the Mineral Tenure Act Regulation</u>, may not be used for physical work credits. Some examples are:

- Metal detecting
- Buildings and camp construction
- Walking around a claim, picking up rocks, planning, reconnaissance or surveying for work sites or roads, and marking claim boundaries
- Airline tickets and capital costs (i.e. trucks or cars, equipment, instruments) are not acceptable costs. Vehicle transportation rates and/or reasonable rental rates will be considered.

# SUMMARY OF REPORT REQUIREMENTS

A physical work report must include all the following sections as applicable:

1. A detailed written description explaining the type of activity and the results obtained

If the work is conducted on a **mineral claim** the written description may contain:

- Location coordinates of samples taken and sites investigated
- Geological descriptions of samples taken and sites investigated, such as bedrock descriptions, rock sample descriptions, number of samples, number of trenches, length/depth of trenches, cuts, adits, pits, or shafts
- Descriptions of the geological information collected such as the type of information collected, number of sites sampled, and a description of the information collected

- Samples and investigation sites should be plotted on a map that shows claim boundaries
- Photos or images of samples taken and sites investigated
- Assay results or any other technical analysis results of collected samples

If the work is conducted on a **placer claim** the written description may contain:

- Location coordinates for all sites where placer material was sampled
- A description of the activity conducted (panning, digging, washing), the type of material tested, and the approximate weight of material tested
- List of economic mineral(s) targeted (e.g. gold, platinum)
- If assays are conducted, provide the assay reports and assay results
- If mineral/element grains are counted, provide the count results for each sample
- A description of the visual analysis and interpretation of the test results (e.g. "no gold observed after panning", or "several sub mm-scale gold flakes observed after panning", etc.)
- Test source material locations on a map with claim boundaries
- Photos of the panned, dug, and/or washed samples before and after testing
- 2. The date the exploration and development started and the number of hours of work.
- 3. An itemized cost statement related to the activities including the costs for labour, food, accommodation, transportation, rental and operation of machinery, equipment, and instruments.
- 4. A map at a scale of detail of 1:10 000 or more detailed that shows the geographic location of the exploration and development activity relative to the boundaries of the claim or block of claims on which the activity was carried out.
- 5. Metric dimensions of all workings, openings and related activity referenced to the map described in item 4 above for trenches, open cuts, adits, pits, shafts and underground activity.
- 6. A map at a scale of detail of 1: 5,000 or more detailed that shows the ground control or grid lines if ground control survey or line cutting work was conducted.
- 7. If a survey was conducted, a plan prepared by a practicing land surveyor.
- 8. The amount in metric units of material removed from the ground and tested or processed including the metric dimensions of the excavation for placer panning, digging and washing of gravel.

For More Information on Submitting Exploration and Development Work Reports, please review <u>Information Update No. 14.</u>